

Appendix A
Monitoring Well Lithologic Logs and Well Construction Details
Table of Contents

Plates

A1	Well Construction Details and Log of Boring MCWD-05
A2	Well Construction Details and Log of Boring MCWD-08
A3	Well Construction Details and Log of Boring MCWD-08A
A4	Well Construction Details and Log of Boring Mini-Storage
A5	Well Construction Details and Log of Boring MP-BW-37
A6	Well Construction Details and Log of Boring MP-BW-38
A7	Well Construction Details and Log of Boring MP-BW-39
A8	Well Construction Details and Log of Boring MP-BW-40
A9	Well Construction Details and Log of Boring MP-BW-41
A10	Well Construction Details and Log of Boring MP-BW-42
A11	Well Construction Details and Log of Boring MP-BW-46
A12	Well Construction Details and Log of Boring MP-BW-48
A13	Well Construction Details and Log of Boring MW-B-12-A
A14	Well Construction Details and Log of Boring MW-OU2-30-180
A15	Well Construction Details and Log of Boring MW-B-13-180
A16	Well Construction Details and Log of Boring MW-B-14-A
A17	Well Construction Details and Log of Boring MW-BW-15-A
A18	Well Construction Details and Log of Boring MW-BW-16-A
A19	Well Construction Details and Log of Boring MW-BW-17-A
A20	Well Construction Details and Log of Boring MW-BW-18-A
A21	Well Construction Details and Log of Boring MW-BW-19-180
A22	Well Construction Details and Log of Boring MW-BW-19-180R
A23	Well Construction Details and Log of Boring MW-BW-20-180
A24	Well Construction Details and Log of Boring MW-BW-21-180
A25	Well Construction Details and Log of Boring MW-BW-22-180
A26	Well Construction Details and Log of Boring MW-BW-23-A
A27	Well Construction Details and Log of Boring MW-BW-24-A
A28	Well Construction Details and Log of Boring MW-BW-25-180
A29	Well Construction Details and Log of Boring MW-BW-25-A
A30	Well Construction Details and Log of Boring MW-BW-26-180
A31	Well Construction Details and Log of Boring MW-BW-26-A
A32	Well Construction Details and Log of Boring MW-BW-27-A
A33	Well Construction Details and Log of Boring MW-BW-28-A
A34	Well Construction Details and Log of Boring MW-BW-29-180
A35	Well Construction Details and Log of Boring MW-BW-30-180
A36	Well Construction Details and Log of Boring MW-BW-30-A
A37	Well Construction Details and Log of Boring MW-BW-31-180
A38	Well Construction Details and Log of Boring MW-BW-31-A
A39	Well Construction Details and Log of Boring MW-BW-32-180
A40	Well Construction Details and Log of Boring MW-BW-32-A
A41	Well Construction Details and Log of Boring MW-BW-33-180

A42 Well Construction Details and Log of Boring MW-BW-33-A
A43 Well Construction Details and Log of Boring MW-BW-34-180
A44 Well Construction Details and Log of Boring MW-BW-34-A
A45 Well Construction Details and Log of Boring MW-BW-35-180
A46 Well Construction Details and Log of Boring MW-BW-35-A
A47 Well Construction Details and Log of Boring MW-BW-36-A
A48 Well Construction Details and Log of Boring MW-BW-37-A
A49 Well Construction Details and Log of Boring MW-BW-38-A
A50 Well Construction Details and Log of Boring MW-BW-39-A
A51 Well Construction Details and Log of Boring MW-BW-40-A
A52 Well Construction Details and Log of Boring MW-BW-41-A
A53 Well Construction Details and Log of Boring MW-BW-42-A
A54 Well Construction Details and Log of Boring MW-BW-43-180
A55 Well Construction Details and Log of Boring MW-BW-43-A
A56 Well Construction Details and Log of Boring MW-BW-44-180
A57 Well Construction Details and Log of Boring MW-BW-44-A
A58 Well Construction Details and Log of Boring MW-BW-45-180
A59 Well Construction Details and Log of Boring MW-BW-45-A
A60 Well Construction Details and Log of Boring MW-BW-46-A
A61 Well Construction Details and Log of Boring MW-BW-47-180
A62 Well Construction Details and Log of Boring MW-BW-47-A
A63 Well Construction Details and Log of Boring MW-BW-48-A
A64 Well Construction Details and Log of Boring MW-BW-49-180
A65 Well Construction Details and Log of Boring MW-BW-49-A
A66 Well Construction Details and Log of Boring MW-BW-50-180
A67 Well Construction Details and Log of Boring MW-BW-50-A
A68 Well Construction Details and Log of Boring MW-BW-51-180
A69 Well Construction Details and Log of Boring MW-BW-51-A
A70 Well Construction Details and Log of Boring MW-BW-52-180
A71 Well Construction Details and Log of Boring MW-BW-52-A
A72 Well Construction Details and Log of Boring MW-BW-53-180
A73 Well Construction Details and Log of Boring MW-BW-53-A
A74 Well Construction Details and Log of Boring MW-BW-54-180
A75 Well Construction Details and Log of Boring MW-BW-54-A
A76 Well Construction Details and Log of Boring MW-BW-55-180
A77 Well Construction Details and Log of Boring MW-BW-55-A
A78 Well Construction Details and Log of Boring MW-BW-56-180
A79 Well Construction Details and Log of Boring MW-BW-56-A
A80 Well Construction Details and Log of Boring MW-BW-57-A
A81 Well Construction Details and Log of Boring MW-BW-58-A
A82 Well Construction Details and Log of Boring MW-BW-59-A
A83 Well Construction Details and Log of Boring MW-BW-60-A
A84 Well Construction Details and Log of Boring MW-BW-61-A
A85 Well Construction Details and Log of Boring MW-BW-62-A
A86 Well Construction Details and Log of Boring MW-BW-63-A
A87 Well Construction Details and Log of Boring MW-BW-64-A

A88 Well Construction Details and Log of Boring MW-BW-65-A
A89 Well Construction Details and Log of Boring MW-BW-66-A
A90 Well Construction Details and Log of Boring MW-BW-67-A
A91 Well Construction Details and Log of Boring MW-BW-71-A
A92 Well Construction Details and Log of Boring MW-BW-73-A
A93 Well Construction Details and Log of Boring MW-BW-74-A
A94 Well Construction Details and Log of Boring MW-BW-75-A
A95 Well Construction Details and Log of Boring MW-BW-76-A
A96 Well Construction Details and Log of Boring PS-CT-01
A97 Well Construction Details and Log of Boring PS-CT-02
A98 Well Construction Details and Log of Boring PS-CT-03
A99 Well Construction Details and Log of Boring PS-CT-04
A100 Well Construction Details and Log of Boring PS-CT-05
A101 Well Construction Details and Log of Boring PS-CT-06
A102 Well Construction Details and Log of Boring PS-CT-07
A103 Well Construction Details and Log of Boring PS-CT-08
A104 Well Construction Details and Log of Boring PS-CT-09
A105 Well Construction Details and Log of Boring PS-CT-IW
A106 Well Construction Details and Log of Boring PZ-BW-44-A
A107 Well Construction Details and Log of Boring Airfield Well
A108 Well Construction Details and Log of Boring F026
A109 Well Construction Details and Log of Boring F0-27
A110 Well Construction Details and Log of Boring F0-28

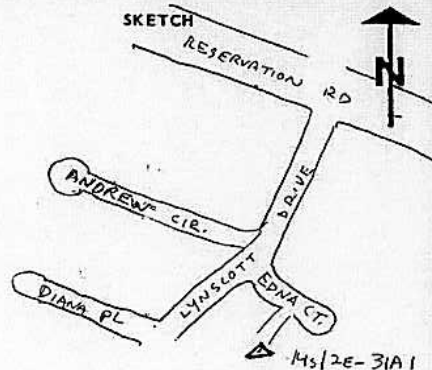
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

145/2E-31A1
State No.

WELL DATA

DISTRICT MARINA

Owner MARINA COUNTY WATER DISTRICT State No. 145/2E-31A1
Address 11 RESERVATION RD., MARINA Other No. #5
Tenant _____
Address _____
Type of Well: Hydrograph ☐ Key ☐ Index ☐ Semiannual ☐ No. _____
Location: County _____ Basin _____
U.S.G.S. Quad. _____
1/4 Section _____, Twp. _____, Rge. _____, MB Base & Meridian
Description SW OF RESERVATION ON LYNESCOTT DRIVE, TURN LEFT INTO EDNA COURT. WELL IS ABOUT 120' SOUTH OF EDNA CT.
Reference Point description _____
which is _____ ft. above land surface. Ground Elevation 2140 MDT
Reference Point Elev. _____ ft. Determined from _____
Well: Use _____ Condition _____ Depth 378
Casing, size 12" In., perforations 216"-378"
Measurements By: DWR ☐ USGS ☐ USBR ☐ County ☐ Irr. Dist. ☐ Water Dist. ☐ Cons. Dist. ☐
Chief Aquifer Name _____ Depth to Top Aq. _____ Depth to Bot. Aq. _____
Type of Material _____ Perm. Rating _____ Thickness _____
Gravel Packed? Yes ☒ No ☐ Depth to Top Gr. 0 Depth to Bot. Gr. 378'
Supp. Aquifer _____ Depth to Top Aq. _____ Depth to Bot. Aq. _____
Driller VALLEY PUMP & DRILLING CO.
Date drilled 5-29-61 Log. filed 38096 open (1) _____ confidential (2) _____
Equipment: Pump, type TURBINE make BYRON-JACKSON
Serial No. _____ Size of discharge pipe _____ in. _____
Power, Kind _____ Make US MOTORS
H. P. 40 Motor Serial No. _____
Elec. Meter No. _____ Transformer No. _____
Yield _____ G.P.M. Pumping level _____ ft. _____
Water Analysis: Min. (1) _____ Son. (2) _____ H.M. (3) _____
Water Levels available: Yes (1) _____ No _____
Period of Record: Begin _____ End _____
Collecting Agency: _____
Prod. Rec. (1) _____ Pump Test (2) _____ Yield (3) _____



REMARKS

Recorded by: _____
Date _____

MACTEC

Well Construction Details and
Log of Boring MCWD-05
Carbon Tetrachloride
RI/FS
Fort Ord, California

PLATE

A1

DRAWN
MBP

JOB NUMBER
55596 00171

APPROVED
MDT/CM

DATE
12/04

REVISED DATE

Edna Ct. between 1304 & 1306

QUINTuplicate
RETAIN THIS COPY

WELL #5

ATER WELL DRILLERS' REPORT
(Sections 7876, 7877, 7878, Water Code)
PUMP & DRILL STATE # 1304
STATE OF CALIFORNIA
1330 ARABOTT STREET
SALINAS, CALIFORNIA 94785

Do Not Fill In
No. 38096
State Well No.
Other Well No.

(1) OWNER: Vista Del Camino Co.
Name
Address: Sun Terrace Sub-Division Clayton Hill Pkg.
Box 11,
Coronado, California.

(2) LOCATION OF WELL:
County: Monterey
Owner's number, if any:
Approximately 1/4 mile south of
Reservation Road and about 1 mile east of
State Highway #1 in Sun Terrace Sub-division

(3) TYPE OF WORK (check):
New well ☐ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) EQUIPMENT:
Rotary ☐
Cable ☐
Dug Well ☐

(6) CASING INSTALLED:
SINGLE ☐ DOUBLE ☐
From 0 to 378 ft. Diam. 12 3/16 in.
Type and size of shoe or well ring: 3/8" nipple
Describe joint: collars welded

(7) PERFORATIONS:
Type of perforator used: Factory punched
Size of perforations: 1-1/2 in.
From 0 to 216 ft. Perf. per row: 3/32 in.
Rows per ft.:
0 to 216 ft. Blank
216 to 378 ft. Perforated

(8) CONSTRUCTION:
Was a surface sanitary seal provided? ☐ Yes ☐ No To what depth: 6 ft.
Were any struts used against pollution? ☐ Yes ☐ No If yes, note depth of struts:
From 0 to 6 ft.
Method of Sealing: 26" dia conductor pipe 36" bore with concrete between the two

(9) WATER LEVELS:
Depth at which water was first found: 127 ft.
Standing level before perforating: 127 ft.
Standing level after perforating: 127 ft.

(10) WELL TESTS:
Was a pump test made? ☐ Yes ☐ No If yes, by whom? to be made later
Yield: gal./min. with:
Temperature of water: 70°F Was a chemical analysis made? ☐ Yes ☐ No
Was electric log made of well? ☐ Yes ☐ No

(11) WELL LOG:
Total depth 378 ft. Depth of completed well 378 ft.
Formation: Describe by color, character, size of material, and structure:
0 - 30 Sand
30 - 50 Sand stone
50 - 58 Tight sand
58 - 103 Tight red sand
103 - 118 Blue clay, sandy
118 - 133 Blue clay, streaks of yellow clay
133 - 143 Blue clay, thin streaks of soft sand
143 - 167 Hard blue clay
167 - 178 Blue clay & sea shells
178 - 193 Blue clay thin streaks of sandy clay
193 - 208 Fine sand, thin streaks of blue clay
208 - 223 Coarse sand, thin streaks of blue and yellow clay
223 - 253 Coarse sand, thin streaks of soft yellow clay
253 - 283 Coarse sand, fine soft gravel
283 - 313 Sand & gravel
313 - 358 Sand & gravel, streaks of blue shale
358 - 378 Coarse sand & gravel.
measured depth to water 127 on 9/23/61 CFM

DELIVERED MAY 11 1967

Work started 5-29-61 Completed 7-1-61

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME: Valley Pump & Drilling Co. (typed or printed)
Address: P. O. Box 157 1308 Abbott St.,
Salinas, California.

[Signed] _____ Well Driller
Dated: July 2, 1961

License No. 22222

DRW FORM NO. 246 (REV. 5-61)



Well Construction Details and
Log of Boring MCWD-05
Carbon Tetrachloride
RI/FS
Fort Ord, California

PLATE

A1

DRAWN
MBP

JOB NUMBER
55596 00171

APPROVED
MDT/CM

DATE
12/04

REVISED DATE

Page 2 of 3

and Triplicate with the
WATER POLLUTION
CONTROL BOARD No. 3
(Insert appropriate number)

WATER WELL DRILLERS REPORT

(Sections 7074, 7077, 7078, Water Code)

STATE OF CALIFORNIA

Do Not Fill In
No 38096

State Well No. 14/2-31A1
Other Well No.

(1) OWNER:
Name Sun Terrace Sub-Division Clayton Neill Eng.
Address Box 11,
Carmel, California.

(2) LOCATION OF WELL:
County Monterey Owner's number, if any #5
R. F. D. or Street No. Approximately 1/4 mile south of
Reservation Road and about 1 mile east of
State Highway #1 in Sun Terrace Sub-division

(3) TYPE OF WORK (check):
New well ☐ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):
Domestic ☐ Industrial ☐ Municipal ☐ Rotary ☐
Irrigation ☐ Test Well ☐ Other ☒ Cable ☐ Dug Well ☐

(5) EQUIPMENT:
Rotary ☐
Cable ☐
Dug Well ☐

(6) CASING INSTALLED:
SINGLE ☒ DOUBLE ☐
From ft. to ft. Diam. Gage of Wall
" 0 378 12 3/16 " 24" 0 378 "
Type and size of shoe or well ring
Describe joint Collars welded

(7) PERFORATIONS:
Type of perforator used Factory punched
Size of perforations 1-1/2 in. length by 5/32 in.
From ft. to ft. Perf. per row Rows per ft.
" 0 216 Blank " " " "
" 216 378 Perforated " " " "

(8) CONSTRUCTION:
Was a surface sanitary seal provided? ☒ Yes ☐ No To what depth 36 ft.
Were any strata sealed against pollution? ☐ Yes ☒ No If yes, note depth of strata
From ft. to ft.
Method of Sealing 26" dia conductor pipe 36" bore
with concrete between the two

(9) WATER LEVEL:
Depth at which water was first found ft.
Standing level before perforating ft.
Standing level after perforating ft.

(10) WELL TESTS:
Was a pump test made? ☐ Yes ☐ No If yes, by whom? to be made later
Yield gal./min. with ft. draw down after hrs.
Temperature of water Was a chemical analysis made? ☐ Yes ☒ No
Was electric log made of well? ☐ Yes ☒ No

(11) WELL LOG:
Total depth 378 ft. Depth of completed well 378
Formations Describe by color, character, size of material, and structure.
ft. to ft.

0	30	Sand
30	58	Sand stone
58	58	Tight sand
58	103	Tight red BM sand
103	118	Blue clay, sandy
118	133	Blue clay, streaks of yellow clay
133	148	Blue clay thin streaks of soft sand.
148	163	Hard blue clay
163	178	Blue clay & sea shells
178	193	Blue clay thin streaks of sandy clay
193	208	Fine sand, thin streaks of blue clay
208	223	Coarse sand, thin streaks of blue and yellow clay
223	253	Coarse sand, thin streaks of soft yellow clay
253	283	Coarse sand, fine soft gravel
283	313	Sand & gravel
313	358	Sand & gravel, streaks of blue shale
358	378	Coarse sand & gravel.

RECEIVED
JUL 11 1961
EXECUTIVE DIRECTOR
Central Valley Regional
Water Pollution Control Board

Work started 5-29 1961 Completed 7-1 1961

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Valley Pump & Drilling Co. (Typed or printed)
Address P. O. Box 157 1268 Abbott St.,
Salinas, California
(Signed) [Signature]
License No. 142582 Dated July 7, 1961



Well Construction Details and
Log of Boring MCWD-05
Carbon Tetrachloride
RI/FS
Fort Ord, California

PLATE

A1

DRAWN
MBP

JOB NUMBER
55596 00171

APPROVED
MDT/CM

DATE
12/04

REVISED DATE

WELL DATA

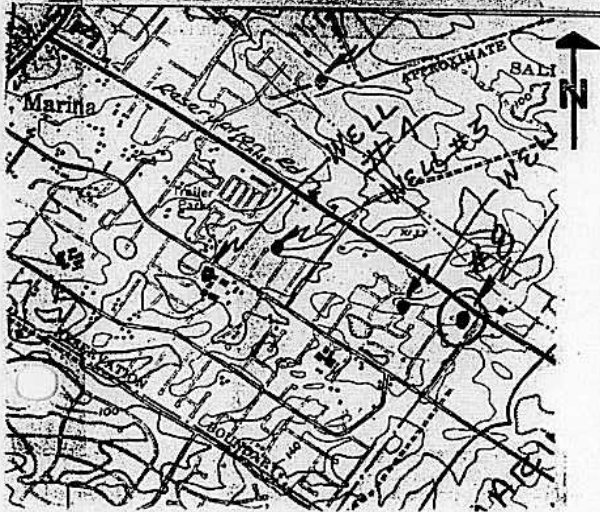
DISTRICT 100' Aquifer

Owner Marina County Water District State No. 145/26-3202
Address _____ Other No. #8
Tenent _____
Address _____
Type of Well: Hydrograph ☐ Key ☐ Index ☐ Semiannual ☐
Location: County Monterey Basin 3-04.08 No. _____
U.S.G.S. Quad. Monterey Co. Quad. No. 366B
NW 1/4 NW 1/4 Section 32, Twp. 14S, Rge. 2E, MD Base & Meridian
Description Approx. 650' S & 100' E of NW corner
See sketch

Reference Point description _____

which is _____ ft. above land surface. Ground Elevation _____ ft.
Reference Point Elev. _____ ft. Determined from _____
Well: Use Municipal Condition _____ Depth 518 ft.
Casing, size 16 in., perforations 376-386', 392-422', 482-502', 516-526', 548-558'

Measurements By: DWR ☐ USGS ☐ USBR ☐ County ☐ Irr. Dist. ☐ Water Dist. ☐ Cons. Dist. ☐
Chief Aquifer: Name _____ Depth to Top Aq. _____ Depth to Bot. Aq. _____
Type of Material _____ Perm. Rating _____ Thickness _____
Gravel Packed? Yes ☐ No ☐ Depth to Top Gr. _____ Depth to Bot. Gr. _____
Supp. Aquifer _____ Depth to Top Aq. _____ Depth to Bot. Aq. _____
Driller WESTERN WELL DRILLING, LTD.
Date drilled SEPT. 1972 Log, filed _____ open (1) _____ confidential (2) _____
Equipment: Pump, type _____ make _____
Serial No. _____ Size of discharge pipe _____ in.
Power, Kind _____ Make _____
H. P. _____ Motor Serial No. _____
Elec. Meter No. _____ Transformer No. _____
Yield _____ G.P.M. Pumping level _____ ft.
Water Analysis: Min. (1) _____ San. (2) _____ H.M. (3) _____
Water Levels available: Yes (1) _____ No _____
Period of Record: Begin _____ End _____
Collecting Agency: _____
Prod. Rec. (1) _____ Pump Test (2) _____ Yield (3) _____



REMARKS

Recorded by: D. NASSO
Date: 7-2-76

MACTEC

Well Construction Details and
Log of Boring MCWD-08
Carbon Tetrachloride
RI/FS
Fort Ord, California

PLATE

A2

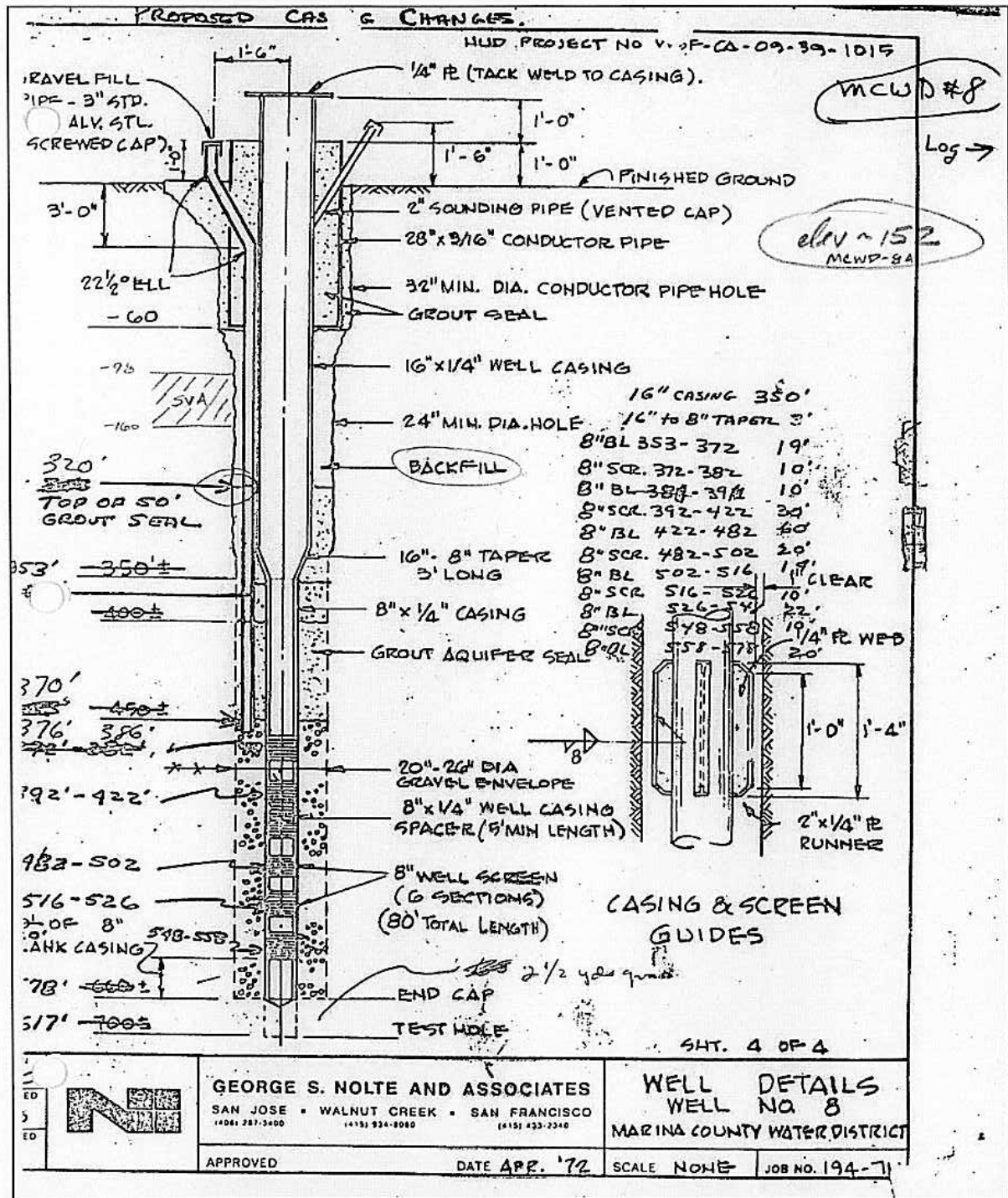
DRAWN
MBP

JOB NUMBER
55596 00171

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12/04

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MACTEC

Well Construction Details and
Log of Boring MCWD-08
Carbon Tetrachloride
RI/FS
Fort Ord, California

PLATE

A2

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JOB NUMBER
55596 00171

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DATE
12/04

REVISED DATE

Page 2 of 5

NOTICE OF INTENT NO. 81023

CONFIDENTIAL LOG
Water Code Sec. 13752

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT

145/25-321
Do Not Fill In
No 88151220
State Well No. 14/2-31
Other Well No.

(1) OWNER:
Name Marina County Water District
Address 11 Beach Road, Marina, CA 93933

(2) LOCATION OF WELL:
County Monterey Owner's number, if any #8
Township, Range, and Section
Distance from cities, roads, railroads, etc. Reservation Road and Salinas Avenue

(3) TYPE OF WORK (check):
New Well ☒ Deepening ☐ Reconditioning ☐ Destroying ☐
If destruction, describe material and procedure in item 11.

(4) PROPOSED USE (check):
Domestic ☐ Industrial ☐ Municipal ☒ Irrigation ☐ Test Well ☐ Other ☐

(5) EQUIPMENT:
Rotary ☒ Cable ☐ Other ☐

(6) CASING INSTALLED:
STEEL: ☒ SINGLE ☐ DOUBLE ☐ OTHER: ☐
If gravel packed

From ft.	To ft.	Diam.	Gage or Wall	Diameter of Bore	From ft.	To ft.
0	353	16" ID	1 1/4"	24"	60	578
353	578	8" OD	1 1/4"	24"		
0	60	28" ID	3/16"	32"	0	60

Size of shoe or well rings: Pea Gravel
Describe joint: Welded

(7) PERFORATIONS OR SCREEN:
Type of perforation or name of screen Factory-milled

From ft.	To ft.	Perf. per row	Rows per ft.	Size in. x in.
372	382			
392	422			
482	502			
516	526			
548	558			

(8) CONSTRUCTION:
Was a surface sanitary seal provided? Yes ☒ No ☐ To what depth 60 ft.
Were any struts used against pollution? Yes ☐ No ☐ If yes, note depth of struts
From ft. to ft.
From ft. to ft.
Method of sealing cement

(9) WATER LEVELS:
Depth at which water was first found, if known ft.
Standing level before perforating, if known ft.
Standing level after perforating and developing ft.

(10) WELL TESTS:
Was pump test made? Yes ☒ No ☐ If yes, by whom? Driller
Pump 1900 gal./min. with 73 ft. drawdown after hrs.
Temperature of water °F. Was a chemical analysis made? Yes ☐ No ☐
Was electric log made of well? Yes ☐ No ☐ If yes, attach copy

(11) WELL LOG:
Total depth 617 ft. Depth of completed well 578 ft.
Formation: Describe by color, character, size of material, and structure

ft. to	ft. to
0 to 58'	Sand, Brown
58 64	Clay, Yellow
64 98	Sand, Brown
98 160	Clay, Blue - SVA?
160 215	Coarse Sand & Fine Gravel - U-100?
215 260	Clay, Brown
260 315	Coarse Sand & Fine Gravel
315 355	Coarse Sand to Medium Gravel
355 370	Sand with Clay Streaks
370 500	Coarse Sand to Medium Gravel
500 545	Medium Sand
545 580	Fine Sand
580 585	Red Clay
585 609	Cemented Sand
609 617	Granite Not granite - R.R.T.

CONFIDENTIAL
Water Code Sec. 13752

Work started 9/18 19 72 Completed 11/16 19 72
WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
NAME Western Well Drilling Co., Ltd.
(Person, firm, or corporation) (Typed or printed)
Address P.O. Box 109, San Jose, CA 95103
(SIGNED) [Signature] (Well Driller)
License No. 25182 Dated Dec. 19, 19 72

SKETCH LOCATION OF WELL ON REVERSE SIDE

NI

DWR 188 (REV. 9-68) 25173-150 7-68 50M TRIP AD C5P



Well Construction Details and
Log of Boring MCWD-08
Carbon Tetrachloride
RI/FS
Fort Ord, California

PLATE

A2

DRAWN
MBP

JOB NUMBER
55596 00171

APPROVED
MDT/CM

DATE
12/04

REVISED DATE

Page 3 of 5

P. O. BOX 109
SAN JOSE, CALIFORNIA 95128

September 1972

Their Well No. 8

LOG OF WELL FOR
MARINA COUNTY WATER DISTRICT
Marina, California

DRILLERS: F. Arthur
O. Orum

0 to	58	58 Ft.	Sand, Brown
58	64	8	Clay, Yellow
64	98	34	Sand, Brown
98	160	62	Clay, Blue
160	215	55	Coarse Sand & Fine Gravel
215	260	45	Clay, Brown
260	315	55	Coarse Sand & Fine Gravel
315	355	40	Coarse Sand to Medium Gravel
355	370	15	Sand with Clay Streaks
370	500	130	Coarse Sand to Medium Gravel
500	545	45	Medium Sand
545	580	35	Fine Sand
580	585	5	Red Clay
585	609	24	Cemented Sand
609	617	8	Granite



Well Construction Details and
Log of Boring MCWD-08
Carbon Tetrachloride
RI/FS
Fort Ord, California

PLATE

A2

DRAWN
MBP

JOB NUMBER
55596 00171

APPROVED
MDT / CM

DATE
12/04

REVISED DATE

Page 4 of 5

October 19, 1972

SETTING CHART

MARINA COUNTY WATER DISTRICT #8

SECTION	LENGTH	DIAMETER	TYPE	FROM	TO
1	20'	8"	Blank with ball bottom	578	558
2	10'	8"	SS Screen	558	548
3 (Spacer)	22'	8"	Blank	548	526
4	10'	8"	SS Screen	526	516
5	14'	8"	Blank	516	502
6	10'	8"	SS Screen	502	492
7	10'	8"	SS Screen	492	482
8	30'	8"	Blank	482	452
9 (Spacer)	30'	8"	Blank	452	422
10	10'	8"	SS Screen	422	412
11	10'	8"	SS Screen	412	402
12	10'	8"	SS Screen	402	392
13	10' 6' act 4'	8"	Blank	392 392	382 382
14	10' - 4'	8"	SS Screen	382	372
Start 3" pipe - add 464 note					
15	19' + 3'	8" to 16"	19' 8" Blank 3' Taper to 16"	372	350
16	30'	16"	Blank	350	320
17	30'	16"	Blank	320	290
18	30'	16"	Blank	290	260
19	30'	16"	Blank	260	230
20	30'	16"	Blank	230	200
21	30'	16"	Blank	200	170
22	30'	16"	Blank	170	140
23	30'	16"	Blank	140	110
24	30'	16"	Blank	110	80
25	30'	16"	Blank	80	50
26 SPACER	30'	16"	Blank	50	20
27	20'	16"	Blank	20	0



Well Construction Details and
Log of Boring MCWD-08
Carbon Tetrachloride
RI/FS
Fort Ord, California

PLATE

A2

DRAWN
MBP

JOB NUMBER
55596 00171

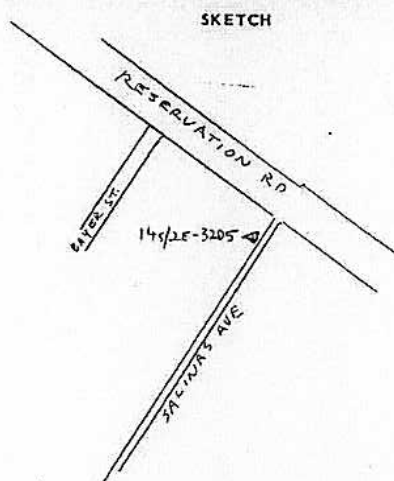
APPROVED
MST / CM

DATE
12/04

REVISED DATE

DISTRICT MARINA

Owner MARINA COUNTY WATER DISTRICT State No. 1452E-32D5
Address 11 RESERVATION RD., MARINA Other No. #8A
Tenant _____
Address _____
Type of Well: Hydrograph | | Key | | Index | | Semiannual | |
Location: County _____ Basin _____ No. _____
U.S.G.S. Quad. _____ Wad. No. _____
% _____ 1/4 Section _____, Twp. _____, Rge. _____ MD
SP Base & Meridian
Description APPROX. 650' S. & 100' E. of NW CORNER OF RESERVATION
SALINAS AVE. INTERSECTION
Reference Point description _____
which is _____ ft. above land surface. Ground Elevation _____
Reference Point Elev. _____ ft. Determined from _____
Well: Use MUNICIPAL Condition _____ Depth 680'
Casing, size _____ in., perforations 280'-300', 320'-360', 390'-410'
Measurements By: DWR | | USGS | | USBR | | County | | Irr. Dist. | | Water Dist. | | Cons. Dist. | |
Chief Aquifer: Name _____ Depth to Top Aq. _____ Depth to Bot. Aq. _____
Type of Material _____ Perm. Rating _____ Thickness _____
Gravel Packed? Yes | | No | | Depth to Top Gr. 223' Depth to Bot. Gr. 420'
Supp. Aquifer _____ Depth to Top Aq. _____ Depth to Bot. Aq. _____
Driller ROY ALSOP & SON
Date drilled 12-82 Log, filed _____ open (1) _____ confidential (2) _____
Equipment: Pump, type _____ make _____
Serial No. _____ Size of discharge pipe _____ in.
Power, Kind _____ Make _____
H. P. _____ Motor Serial No. _____
Elec. Meter No. _____ Transformer No. _____
Yield _____ G.P.M. Pumping level _____ ft.
Water Analysis: Min. (1) _____ San. (2) _____ H.M. (3) _____
Water Levels available: Yes (1) _____ No _____
Period of Record: Begin _____ End _____
Collecting Agency: _____
Prod. Rec. (1) _____ Pump Test (2) _____ Yield (3) _____



REMARKS

Recorded by:
Date:



PLATE

A3

REVISÉD DATE

WELL 8A

test 11/11

P.O. BOX 178
308 ABBOTT ST.

TELEPHONE
408 424-3946

ROY V. ALSOP & SON, INC.

SINCE 1873
Well Drilling

FAIRBANKS-MORSE PUMPS AND PRESSURE SYSTEMS P O M O N A
INDUSTRIAL PUMPS
SALES AND SERVICE
SALINAS, CALIFORNIA 93902

LOG OF WELL
Marina Water District - Well # 8A

1982
December 12, 1982

dry 140'

0-170' 90'

280' 90'

420' 90'

500' 90'

0	-	24	Sandy Loam
24	-	98	Sand
98	-	122	Brown Sandy Clay
122	-	134	Grey Clay
134	-	142	Grey Sandy Clay
142	-	153	Blue Clay
153	-	178	Blue Clay with Sand Streaks
178	-	183	Sandy Clay
183	-	216	Coarse Sand - 11-120
216	-	236	Clay with Sand Streaks
236	-	240	Sand
240	-	262	Brown Clay
262	-	284	Coarse Sand
284	-	315	Gravel with Clay Streaks
315	-	355	Tight Sand & Cobbles (hard)
355	-	366	Boulders & Tight Sand
366	-	425	Sand & Gravel
425	-	431	Sandy Clay & Fine Sand Streaks
431	-	485	Coarse Sand
485	-	556	Medium Sand
556	-	583	Clay
583	-	597	Red Clay
597	-	636	Red Clay & Sand Streaks
636	-	642	Clay
642	-	670	Clay with Gravel Streaks
670	-	690	Clay

500'

5-100'

4-100'



Well Construction Details and
Log of Boring MCWD-08A
Carbon Tetrachloride
RI/FS
Fort Ord, California

PLATE

A3

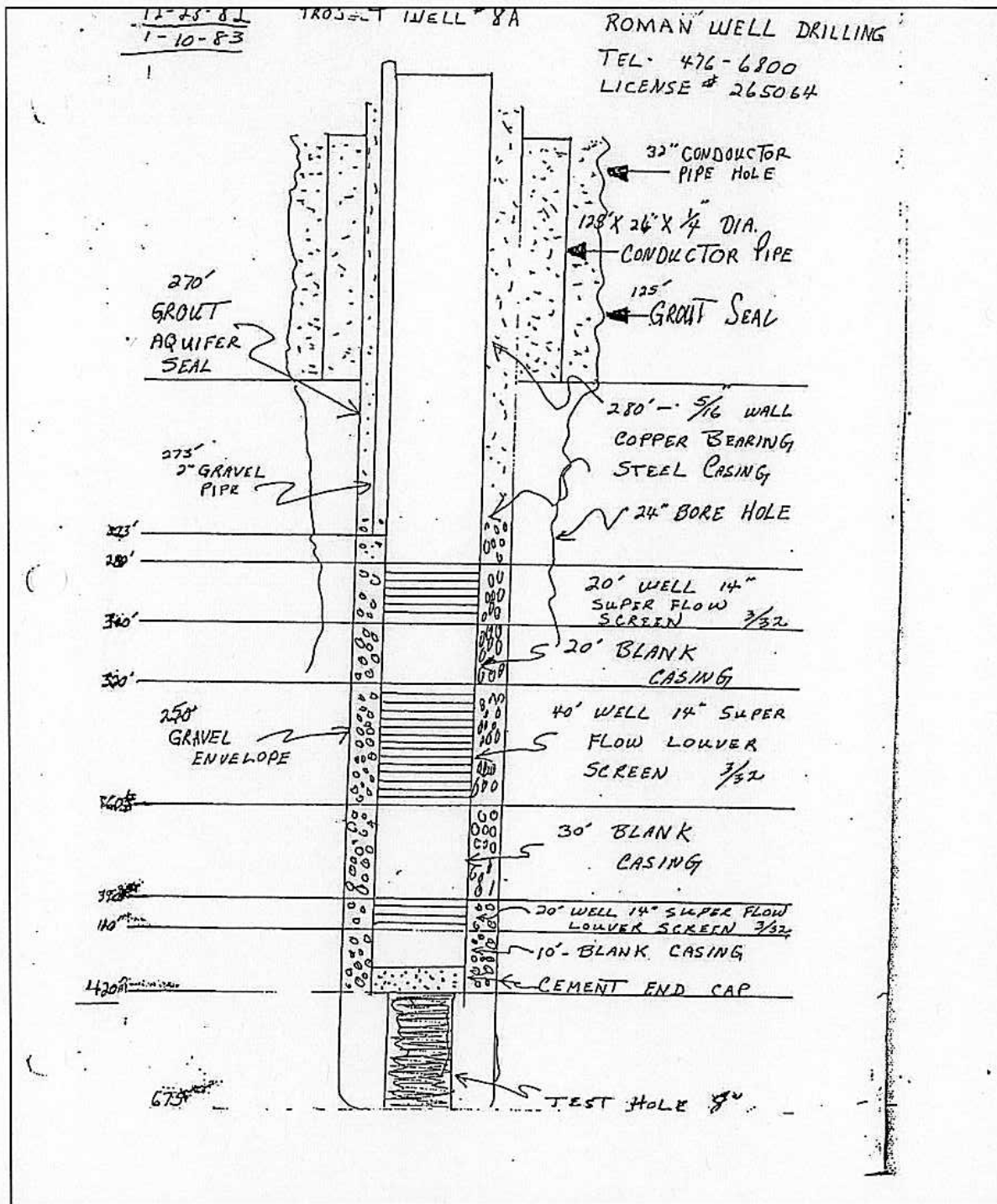
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JOB NUMBER
55596 00171

APPROVED
MDT/cm

DATE
12/04

REVISED DATE



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Well Construction Details and
Log of Boring MCWD-08A
Carbon Tetrachloride
RI/FS
Fort Ord, California

PLATE

A3

DRAWN
MBP

JOB NUMBER
55596 00171

APPROVED
MDT/10/11

DATE
12/04

REVISED DATE

Page 3 of 3

QUADRUPPLICATE
For Local Requirements

Page 1 of 1

Owner's Well No.

Date Work Began 10.23.96

Ended 11.2.96

Local Permit Agency Monterey County Health Dept.

Permit No. WASH 96-236

Permit Date 10.16.96

14158843300
STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Installation Permit No.

No. 503251

DNR USE ONLY - DO NOT FILL IN

14158843300-32D016

STATE WELL NO. (STATION NO.)

LATITUDE LONGITUDE

14158843300-32D016

ELEVATION

PRESSURE - 180 FT.

GEOLOGIC LOG

ORIENTATION (Z) ☒ VERTICAL ☐ HORIZONTAL ☐ OTHER

DEPTH TO FIRST WATER 80 (FT.) BELOW SURFACE

DESCRIPTION RECEIVED

Describe material, grade and color, etc.

APR 21 1998

0 5 top soil

5 108 dry sand

108 114 brown clay

114 136 sand

136 152 tan sand clay

152 218 yellow sand

218 244 tan clay

244 356 gravel

356 450 tan sandy clay

450 500 gravel

500 527 tan clay

Name A. Mahawandian

Mailing Address 407 Reservation Rd.

City Marina, Ca. 93933

WELL LOCATION STATE ZIP

Address 407 Reservation Rd.

City Marina, Ca.

County Monterey Co.

APN Book 032 Page 121 Parcel 022

Township Range Section

Latitude Longitude

LOCATION SECTION

NORTH

NORTH

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TOTAL DEPTH OF BORING 527

TOTAL DEPTH OF COMPLETED WELL 330 (Feet)

FLUID WATER

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH OF STAT 00 (FT.) & DATE MEASURED 11.10.96

WATER LEVEL 200 (FT.) & TEST TYPE Air

ESTIMATED YIELD 8 (GPM) & TEST TYPE 100

TEST LENGTH 8 (FT.) TOTAL SHUTDOWN 100 (FT.)

* May not be representative of a 400' long-term yield.

DEPTH FROM SURFACE	BORE- HOLE DIA. (inches)	CASING(*)				ANNULAR MATERIAL			
		TYPE (Z)	MATERIAL / GRADE	INTERNAL DIAMETER (inches)	GAUGE OR WALL THICKNESS	DEPTH FROM SURFACE	TYPE	DEPTH FROM SURFACE	TYPE
0 257	16"	X	PVC	8"	CLASS 200 40 LB.	0 230	X	16"	8X10 BRZ
250 330	15"	X	PVC	8"	CLASS 200 40 LB.				

ATTACHMENTS (Z)

☒ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analysis
☐ Other

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME L E Melville & Son Drilling Co

ADDRESS 37730 Pinetree Lane

CITY CITY STATE ZIP

SIGNED [Signature] DATE 11-19-96

BY [Signature] DATE 11-19-96

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

TOTAL P.02

MACTEC

Well Construction Details and
Log of Boring Mini-Storage
Carbon Tetrachloride
RI/FS
Fort Ord, California

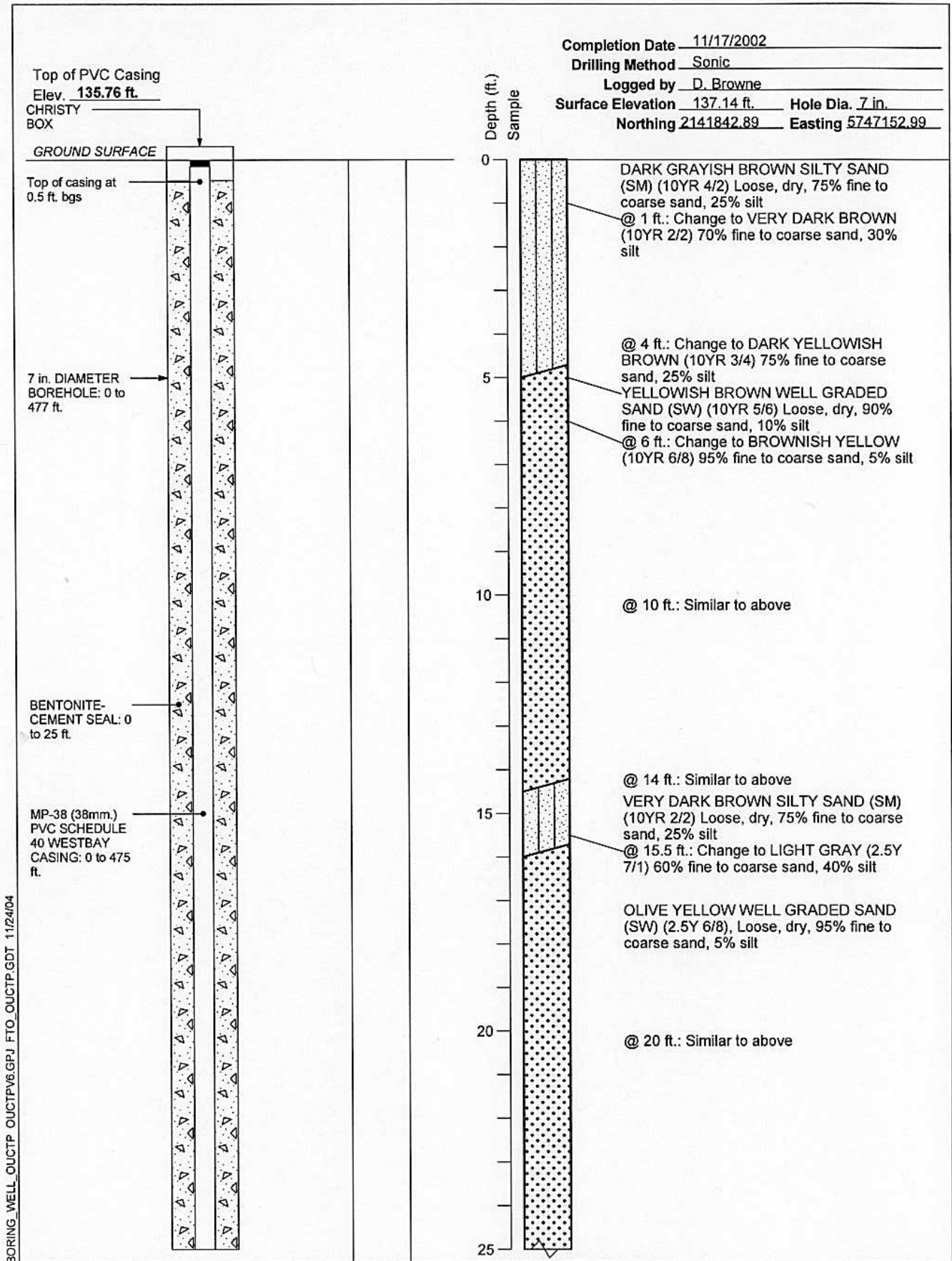
PLATE

A4

DRAWN
MBPJOB NUMBER
55596 001701APPROVED
MDT/CMDATE
12/04

REVISED DATE

Page 1 of 1



MACTEC

**Well Construction Details and
Log of Boring MP-BW-37**
OUCTP

PLATE

A5

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED
[Signature]

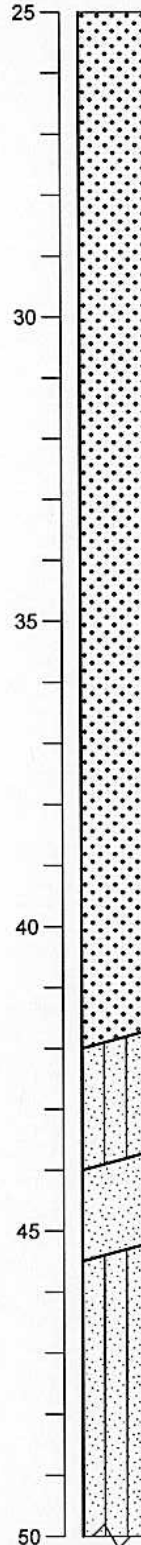
DATE
11/04

REVISED DATE

Completion Date 11/17/2002
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 137.14 ft. Hole Dia. 7 in.
 Northing 2141842.89 Easting 5747152.99

Depth (ft.)
 Sample

BENTONITE
 SLURRY: 25 to
 174 ft.



@ 25 ft.: Similar to above

@ 30 ft.: Similar to above

@ 35 ft.: Similar to above

@ 41 ft.: Similar to above

LIGHT OLIVE BROWN SILTY SAND (SM)
 (2.5Y 5/6) Loose, dry, 85% fine to coarse
 sand, 15% silt

OLIVE YELLOW POORLY GRADED SAND
 (SP) (2.5Y 6/8) Loose, dry, 95% fine sand,
 5% silt

DARK YELLOWISH BROWN SILTY SAND
 (SM) (10YR 4/4) 80% fine to medium sand,
 20% silt, sharp contact with overlying unit,
 visible bedding planes

@ 49 ft.: Similar to above

Well Construction Details and
 Log of Boring MP-BW-37
 OUCTP

PLATE



MACTEC

Fort Ord, California

DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED

MDT / cm

DATE
 11/04

REVISED DATE

A5

Completion Date 11/17/2002

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 137.14 ft. Hole Dia. 7 in.

Northing 2141842.89 Easting 5747152.99

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
174 ft.

50

@ 50 ft.: Change to DARK YELLOWISH
BROWN (10YR 4/6)

55

DARK YELLOWISH BROWN WELL
GRADED SAND (SW) (10YR 4/6) Loose,
dry, 90% fine to coarse sand, 10% silt

DARK YELLOWISH BROWN POORLY
GRADED SAND (SP) (10YR 4/6) Loose, dry

@ 57 ft.: Visible bedding planes

60

DARK YELLOWISH BROWN SILTY SAND
(SM) (10YR 4/6) Loose, dry, 80% fine to
medium sand, 20% silt

@ 60 ft.: Change to Moist, Increase to 25%
silt

65

BROWNISH YELLOW WELL GRADED
SAND (SW) (10YR 6/6) Loose, moist, 90%
fine to coarse sand, 10% silt

BROWNISH YELLOW SILTY SAND (SM)
(10YR 6/6) Loose, moist, 75% fine to
medium sand, 25% silt

70

LIGHT YELLOWISH BROWN POORLY
GRADED SAND (SP) (2.5Y 6/4) Loose,
moist, 90% fine to medium sand, 10% silt

@ 72 ft.: Change to PALE YELLOW (2.5Y
7/4)

75

@ 74 ft.: Change to LIGHT YELLOWISH
BROWN (2.5Y 6/4)

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MP-BW-37

OUCTP

Fort Ord, California

PLATE

A5

DRAWN
MBP

JOB NUMBER
55596 001701

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MDT / cm

DATE
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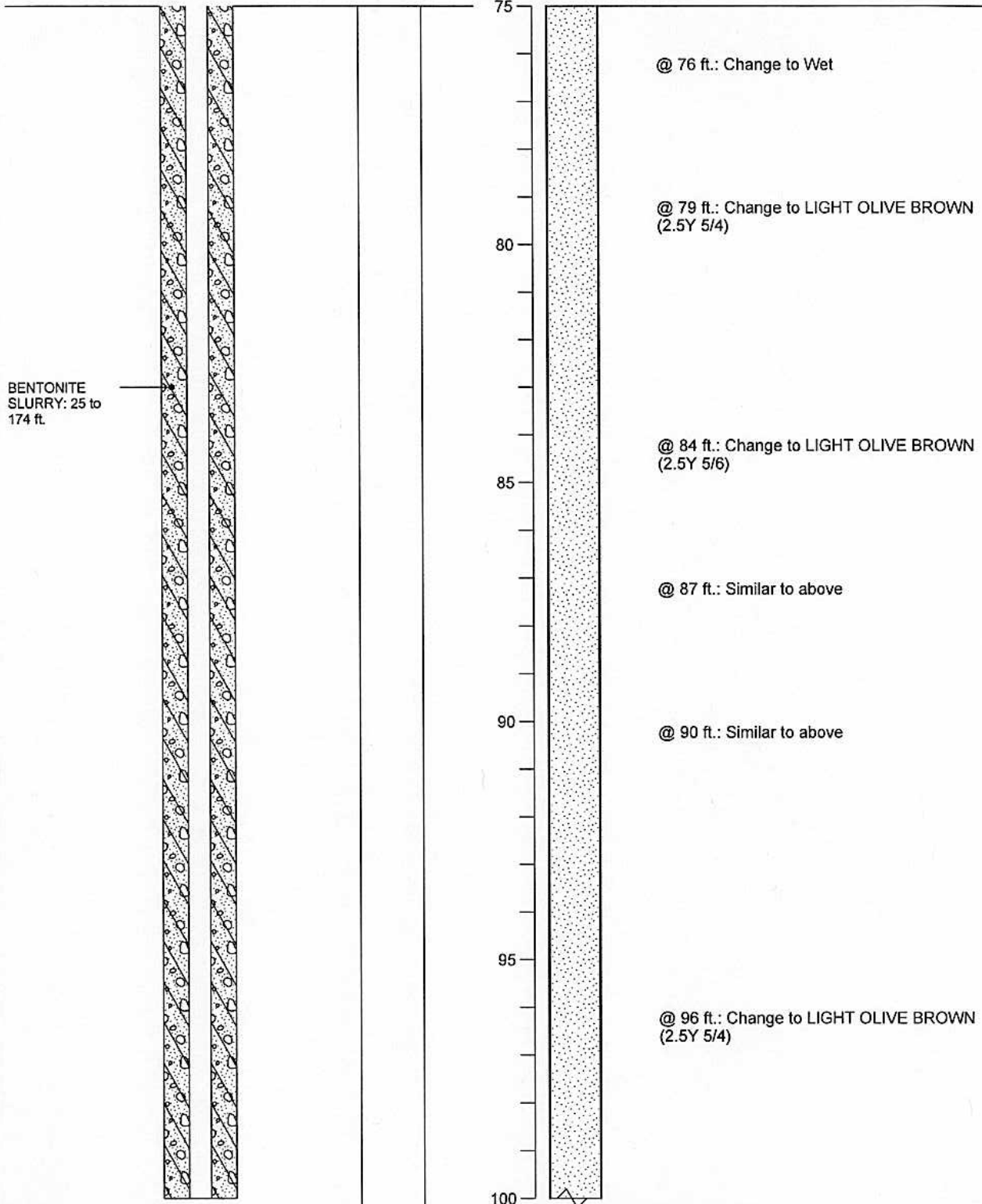
Drilling Method Sonic

Logged by D. Browne

Surface Elevation 137.14 ft. Hole Dia. 7 in.

Northing 2141842.89 Easting 5747152.99

Depth (ft.)
Sample



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
Log of Boring MP-BW-37
OUCTP

PLATE



MACTEC

Fort Ord, California

DRAWN
MBP

JOB NUMBER
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APPROVED
MDT / cm

DATE
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REVISED DATE

A5

Completion Date 11/17/2002

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 137.14 ft. Hole Dia. 7 in.

Northing 2141842.89 Easting 5747152.99

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
174 ft.

@ 100 ft.: Similar to above

@ 105 ft.: Similar to above

@ 107 ft.: Similar to above, From 107-117
ft. 10 ft. sample yields 14 ft. of material
recovery, suspect clay expanded and
pushed up sand, contact depth not clear

OLIVE FAT CLAY (CH) (5Y 5/3) Stiff, moist,
95% fat clay, 5% silt, top 3 in. of clay
reworked and mixed with sand unit from
above

@ 112 ft.: Increase to 5% marbled DARK
GRAY SANDS (5Y 4/1)

@ 113 ft.: DARK GRAY SANDS GONE

@ 114 ft.: Change to OLIVE (5Y 5/4) Dry

@ 115 ft.: Similar to above

@ 120 ft.: Change to PALE OLIVE (5Y 6/4)
Medium stiff

@ 122 ft.: Increase to 30% silt

OLIVE SILT WITH SAND (ML) (5Y 4/3)
Soft, dry, 80% silt, 20% fine sand

125

**Well Construction Details and
Log of Boring MP-BW-37**

OUCTP

Fort Ord, California

PLATE

A5



MACTEC

DRAWN
MBP

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55596 001701

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MDT / cm

DATE
11/04

REVISED DATE

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Completion Date 11/17/2002

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 137.14 ft

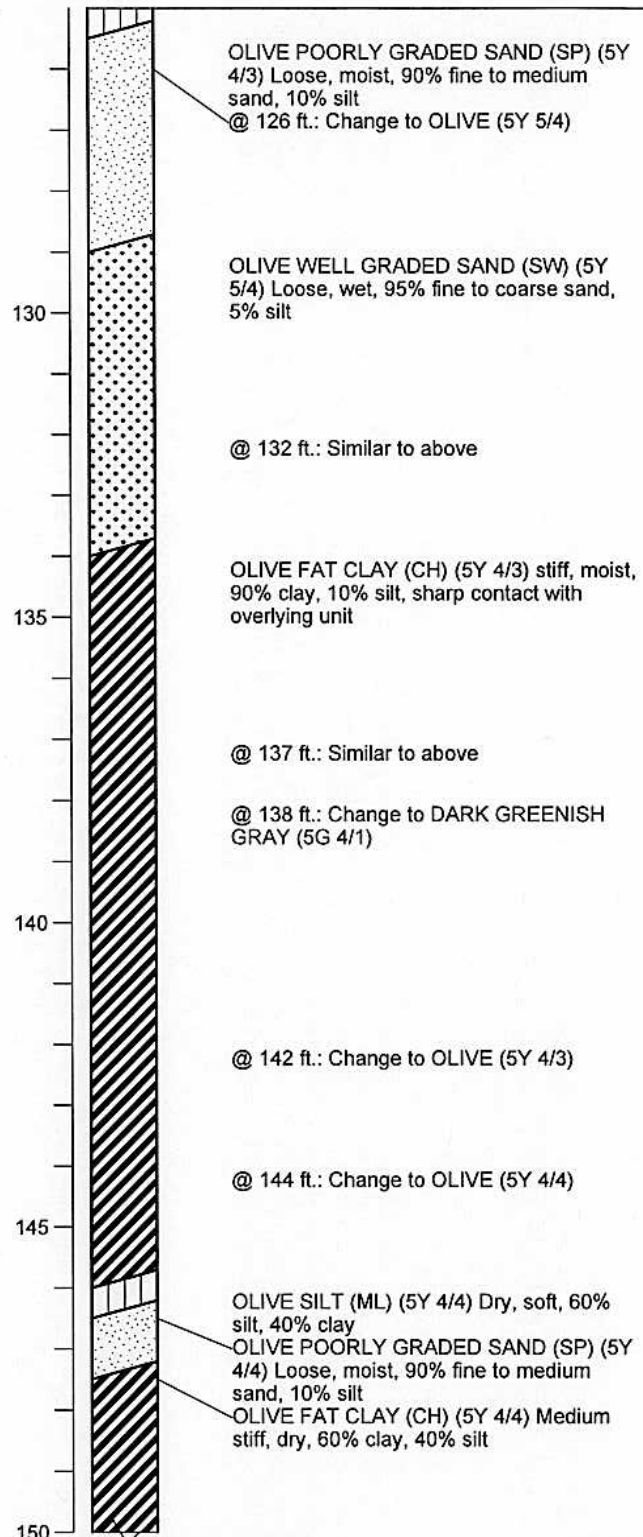
Hole Dia. 7 in.

Northing 2141842.89

Easting 5747152.99

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
174 ft.



Well Construction Details and
Log of Boring MP-BW-37

PLATE

OUCTP

Fort Ord, California

A5



MACTEC

DRAWN
MBP

JOB NUMBER
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MDT / CM

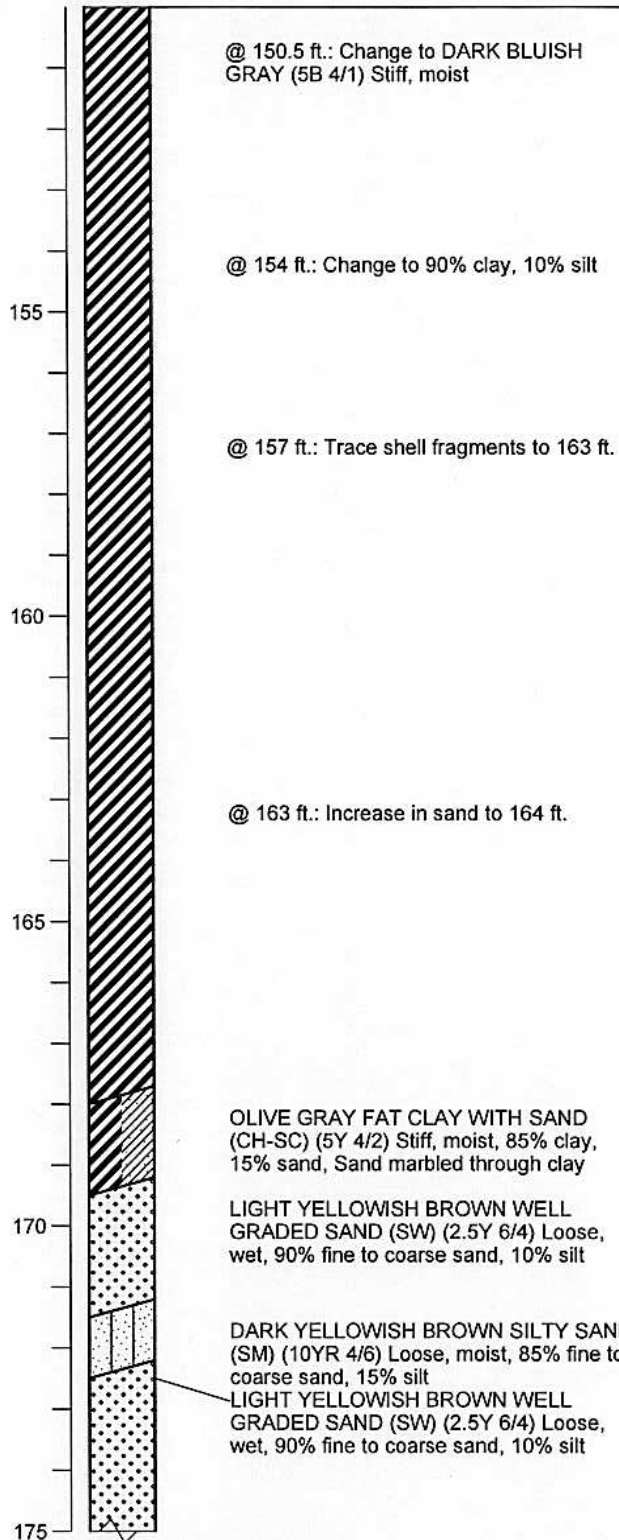
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 Surface Elevation 137.14 ft. Hole Dia. 7 in.
 Northing 2141842.89 Easting 5747152.99

Depth (ft.)
 Sample

BENTONITE
 SLURRY: 25 to
 174 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
 Log of Boring MP-BW-37
 OUCTP

PLATE



MACTEC

Fort Ord, California

DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED
 [Signature]

DATE
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REVISED DATE

A5

Completion Date 11/17/2002

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 137.14 ft.

Hole Dia. 7 in.

Northing 2141842.89

Easting 5747152.99

Depth (ft.)
Sample

BENTONITE
PELLET SEAL:
174 to 178 ft.

LONESTAR # 2/12
SANDPACK: 178
to 187 ft.
SAMPLING PORT
MP-BW-37-178 at
179.62 ft.

EXTERNAL
SCREEN: 180 to
185 ft.

PURGE PORT:
185 ft.

BENTONITE
PELLET SEAL:
187 to 192 ft.

LONESTAR # 2/12
SANDPACK: 192
to 202 ft.

SAMPLING PORT
MP-BW-37-193 at
194.46 ft.

EXTERNAL
SCREEN: 195 to
200 ft.

PURGE PORT:
200 ft.

180

@ 180 ft.: Change to OLIVE YELLOW (2.5Y 6/6) 95% fine to coarse sand, 5% silt, Increase in coarse sand

@ 184 ft.: Trace gravel

185

190

LIGHT OLIVE BROWN WELL GRADED SAND WITH GRAVEL (SWG) (2.5Y 5/4) Loose, wet, 65% fine to coarse sand, 30% gravel composed of chert, granite, and quartz to 2cm., 5% silt

@ 193 ft.: Change to DARK YELLOWISH BROWN (10YR 3/4) 75% fine to coarse sand, 25% gravel subrounded, polished chert, granite, and quartz to 3 cm., Trace silt

195

@ 196 ft.: Change to LIGHT YELLOWISH BROWN (2.5Y 6/4)

LIGHT YELLOWISH BROWN WELL GRADED SAND (SW) (2.5Y 6/4) Loose, wet, 95% fine to coarse sand, 5% silt

200

BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MP-BW-37
OUCTP

PLATE

Fort Ord, California

A5

DRAWN
MBP

JOB NUMBER
55596 001701

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MDT / cm

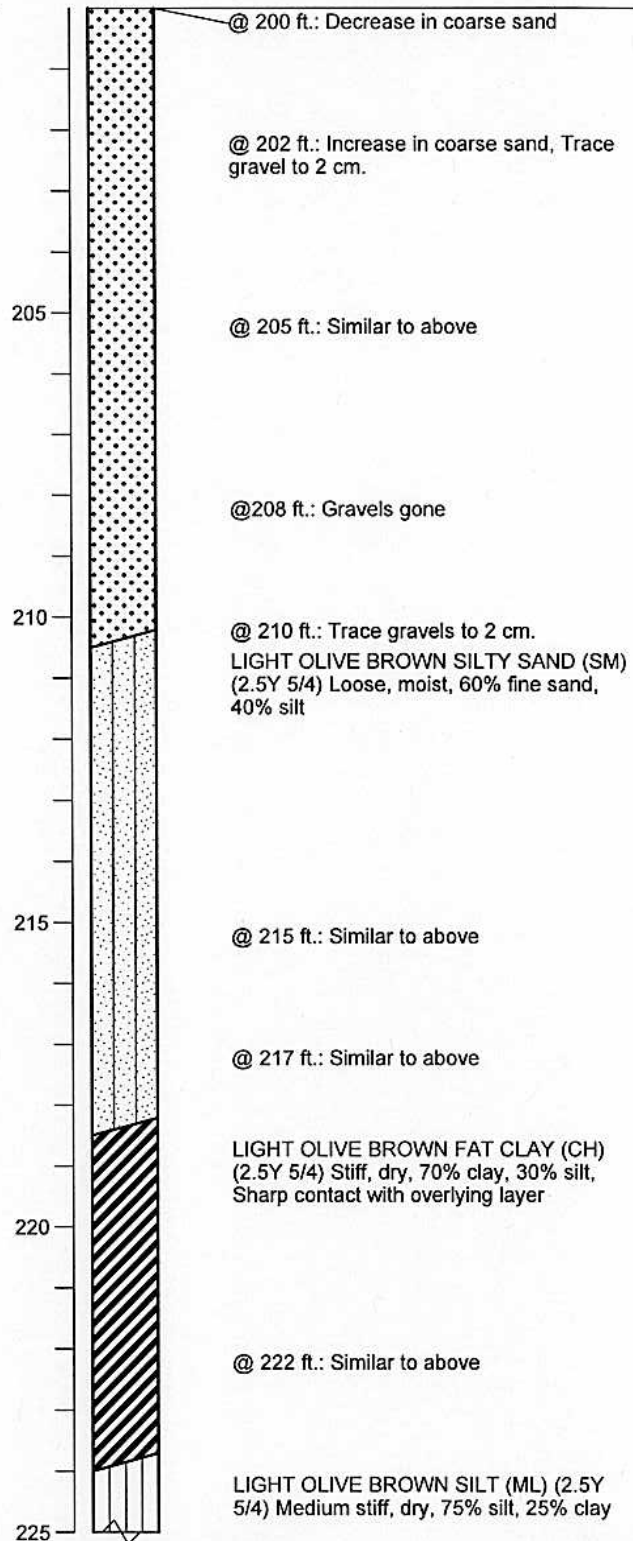
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 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 137.14 ft. Hole Dia. 7 in.
 Northing 2141842.89 Easting 5747152.99

Depth (ft.)
 Sample

BENTONITE
 PELLET SEAL:
 202 to 302.5 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

**Well Construction Details and
 Log of Boring MP-BW-37**
 OUCTP

PLATE



MACTEC

Fort Ord, California

DRAWN
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MDT / cm

DATE
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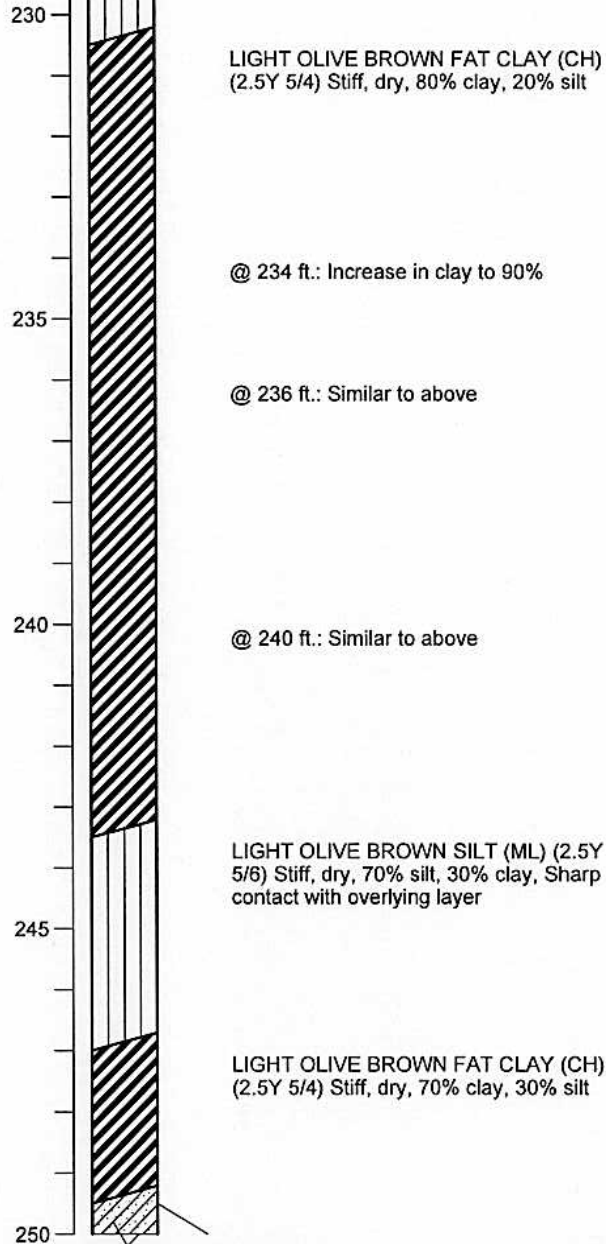
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A5

Completion Date 11/17/2002
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 Northing 2141842.89 Easting 5747152.99

Depth (ft.)
 Sample

BENTONITE
 PELLET SEAL:
 202 to 302.5 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
 Log of Boring MP-BW-37
 OUCTP

PLATE



MACTEC

Fort Ord, California

A5

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[Signature]

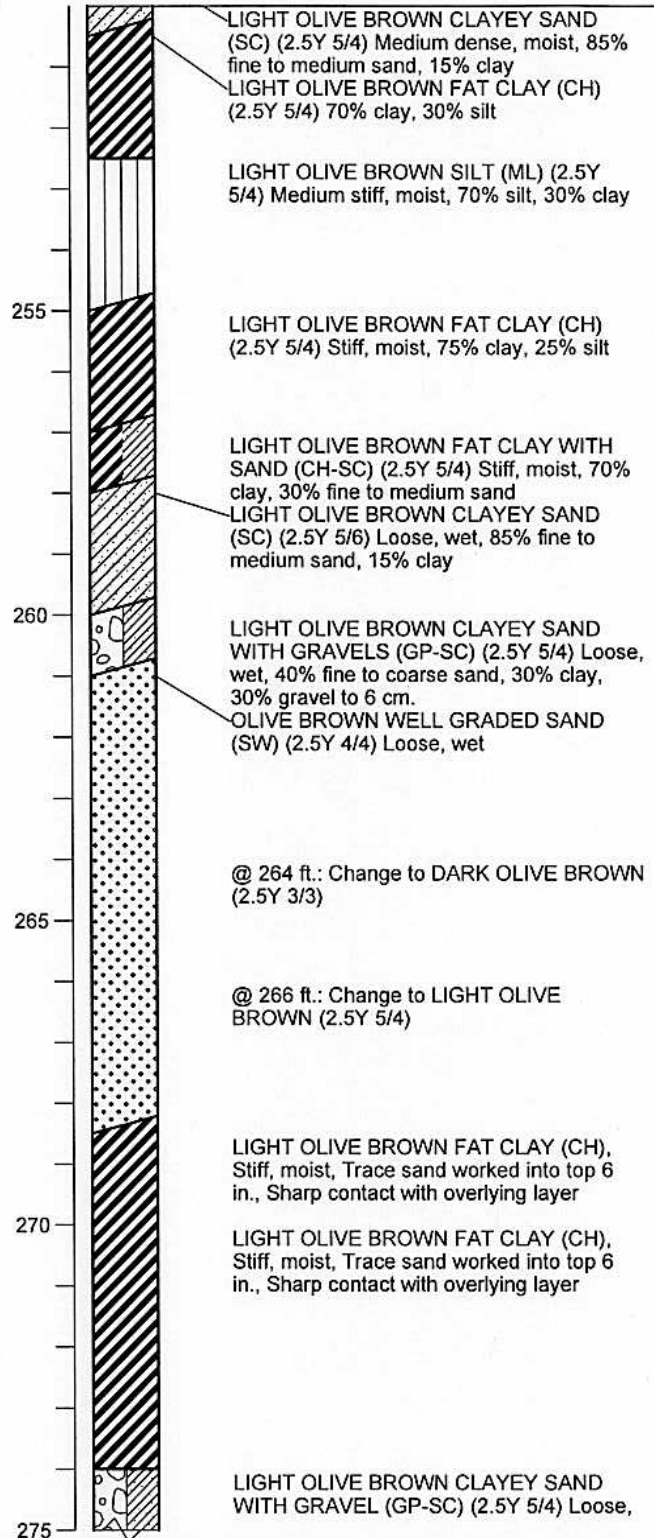
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 Northing 2141842.89 Easting 5747152.99

Depth (ft.)
 Sample

BENTONITE
 PELLET SEAL:
 202 to 302.5 ft.



BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
 Log of Boring MP-BW-37
 OUCTP

PLATE



MACTEC

Fort Ord, California

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A5

Completion Date 11/17/2002

Drilling Method Sonic

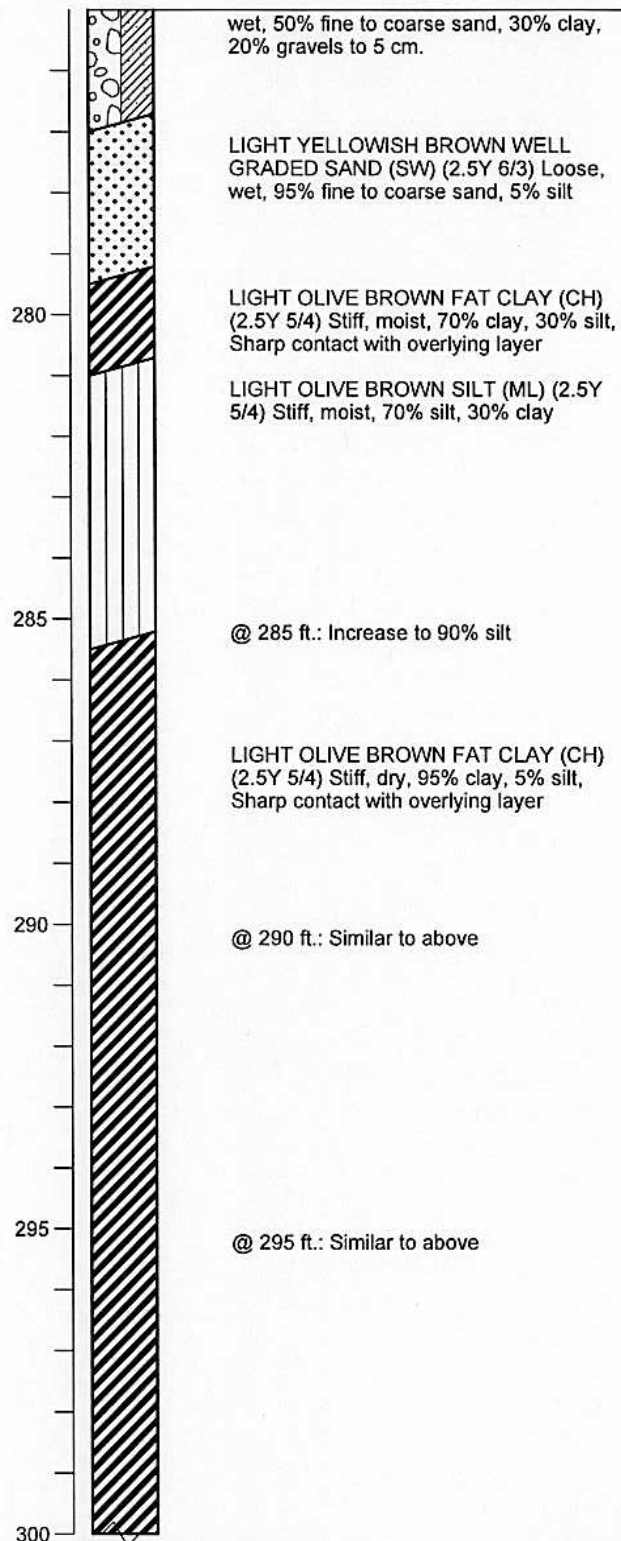
Logged by D. Browne

Surface Elevation 137.14 ft. Hole Dia. 7 in.

Northing 2141842.89 Easting 5747152.99

Depth (ft.)
Sample

BENTONITE
PELLET SEAL:
202 to 302.5 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MP-BW-37
OUCTP

PLATE

Fort Ord, California

A5

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JOB NUMBER
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MDT / car

DATE
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Completion Date 11/17/2002

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 137.14 ft.

Hole Dia. 7 in.

Northing 2141842.89

Easting 5747152.99

Depth (ft.)
Sample

BENTONITE
PELLET SEAL:
202 to 302.5 ft.

SAMPLING PORT
MP-BW-37-303 at
304.63 ft.

EXTERNAL
SCREEN: 304 to
309 ft.

LONESTAR # 2/12
SANDPACK: 302.5
to 312 ft.

PURGE PORT:
309 ft.

BENTONITE
PELLET SEAL:
312 to 328 ft.

LIGHT OLIVE BROWN SILT (ML) (2.5Y 5/3) Soft, dry, 95% silt, 5% clay

LIGHT OLIVE BROWN WELL GRADED
SAND (SW) (2.5Y 5/3) Loose, wet, 95% fine
to coarse sand, 5% silt, sharp contact with
overlying layer

@ 307 ft.: Similar to above

LIGHT OLIVE BROWN SANDY FAT CLAY
(CH) (2.5Y 5/3) Stiff, moist, 60% clay, 40%
sand

LIGHT OLIVE BROWN CLAYEY SAND
WITH GRAVEL (GP-SC) (2.5Y 5/3) Loose,
wet, 60% fine to coarse sand, 25% clay,
15% gravel to 5 cm.

@ 310 ft.: Change to 45% fine to coarse
sand, 35% gravel to 9 cm., 20% clay

@ 313.5 ft.: Change to VERY DARK
BROWN (10YR 2/2)

@ 315 ft.: Change to LIGHT OLIVE
BROWN (2.5Y 5/3)

LIGHT OLIVE BROWN FAT CLAY (CH)
(2.5Y 5/3) Stiff, dry, 85% clay, 10% silt, 5%
gravel

LIGHT OLIVE BROWN WELL GRADED
SAND (SW) (2.5Y 5/3) Loose, wet, 90% fine
to coarse sand, 10% gravel

LIGHT OLIVE BROWN WELL GRADED
SAND WITH GRAVEL (SWG) (2.5Y 5/3)
70% fine to coarse sand, 20% gravel to 3
cm., 10% clay

LIGHT OLIVE BROWN CLAYEY SAND
WITH GRAVEL (SC) (2.5Y 5/3) Loose,
moist, 40% fine to coarse sand, 30% gravel
to 7 cm., 30% clay

LIGHT OLIVE BROWN FAT CLAY (CH)
(2.5Y 5/3) Stiff, moist, 90% clay, 10% silt

LIGHT OLIVE BROWN FAT CLAY WITH
SAND (CH-SC) (2.5Y 5/3) Stiff, dry, 70%

BORING WELL OUCTP OUCTPV6 GPJ FTO OUCTP.GDT 11/24/04

Well Construction Details and
Log of Boring MP-BW-37
OUCTP

PLATE



MACTEC

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

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MDT / cm

DATE
11/04

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A5

Completion Date 11/17/2002Drilling Method SonicLogged by D. BrowneSurface Elevation 137.14 ft. Hole Dia. 7 in.Northing 2141842.89 Easting 5747152.99Depth (ft.)
SampleBENTONITE
PELLET SEAL:
312 to 328 ft.LONESTAR # 2/12
SANDPACK: 328
to 337 ft.SAMPLING PORT
MP-BW-37-328 at
329.65 ft.EXTERNAL
SCREEN: 330 to
335 ft.PURGE PORT:
335 ft.

clay, 30% fine to coarse sand

OLIVE YELLOW CLAYEY SAND WITH
GRAVEL (GP-SC) (2.5Y 6/6) 45% fine to
coarse sand, 40% chert, granite, and quartz
gravel to 9 cm., 15% clay

@ 328 ft.: Increase in clay

@ 330 ft.: Similar to above

LIGHT OLIVE BROWN WELL GRADED
SAND WITH GRAVEL (SWG) (2.5Y 5/4)
Loose, moist, 85% fine to coarse sand, 15%
gravel to 6 cm.LIGHT OLIVE BROWN CLAYEY SAND
WITH GRAVEL (GP-SC) (2.5Y 5/4) Loose,
moist, 55% fine to coarse sand, 30% gravel
to 10 cm., 15% clayLIGHT OLIVE BROWN SANDY FAT CLAY
WITH GRAVEL (CH) (2.5Y 5/4) Soft, moist,
50% clay, 30% gravel to 5 cm., 20% fine to
coarse sandLIGHT OLIVE BROWN CLAYEY SAND
WITH GRAVEL (SC) (2.5Y 5/4) Loose,
moist, 45% fine to coarse sand, 40% gravel
to 4 cm., 15% clayLIGHT OLIVE BROWN WELL GRADED
SAND WITH GRAVEL (SWG) (2.5Y 5/4)
Loose, wet, 75% fine to coarse sand, 25%
gravel to 3 cm.

@ 340 ft.: Increase in gravel to 45%

LIGHT OLIVE BROWN SILT WITH SAND
(ML) (2.5Y 5/3) Soft, moist, 55% silt, 45%
fine sand, Trace gravelLIGHT OLIVE BROWN SILTY SAND WITH
GRAVEL (SM) (2.5Y 5/4) Loose, moist,
50% fine to coarse sand, 30% gravel to 5
cm., 15% siltLIGHT OLIVE BROWN WELL GRADED
SAND (SW) (2.5Y 5/4) Loose, moist, 90%
fine to medium sand, 5% gravel, 5% siltLIGHT OLIVE BROWN GRAVELLY CLAY
WITH SAND (CH), 40% Clay, 35% gravel
to 7 cm., 25% fine to coarse sandPALE YELLOW CLAYEY SAND WITH
GRAVEL (GP-SC) (2.5Y 7/4) Loose, dry,Well Construction Details and
Log of Boring MP-BW-37
OUCTP

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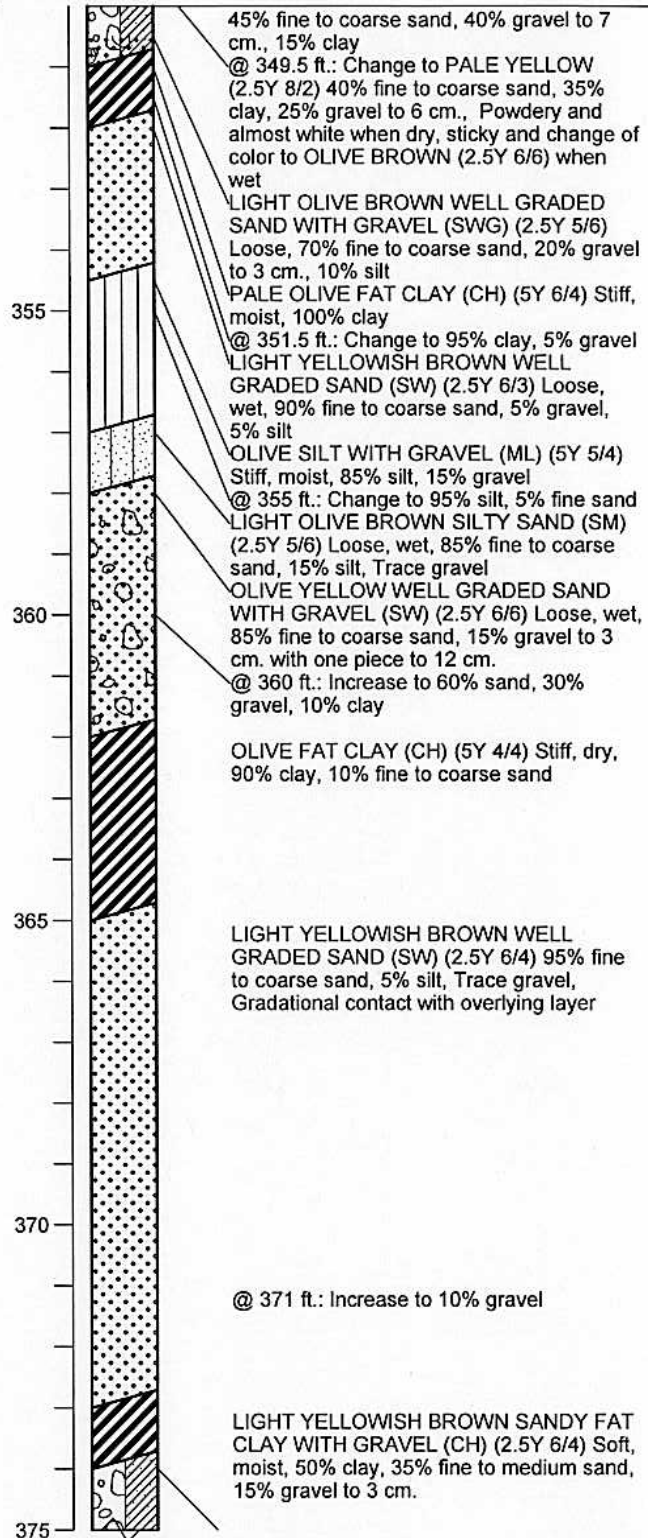
REVISED DATE

Completion Date 11/17/2002
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 137.14 ft. Hole Dia. 7 in.
 Northing 2141842.89 Easting 5747152.99

Depth (ft.)
 Sample

BENTONITE
 PELLET SEAL:
 337 to 368 ft.

LONESTAR # 2/12
 SANDPACK: 368
 to 379 ft.
 SAMPLING PORT
 MP-BW-37-368 at
 369.56 ft.
 EXTERNAL
 SCREEN: 370 to
 375 ft.
 PURGE PORT:
 375 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
 Log of Boring MP-BW-37
 OUCTP

PLATE



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JOB NUMBER
 55596 001701

APPROVED

MDT / CM

DATE
 11/04

REVISED DATE

A5

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Drilling Method Sonic

Logged by D. Browne

Surface Elevation 137.14 ft. Hole Dia. 7 in.

Northing 2141842.89 Easting 5747152.99

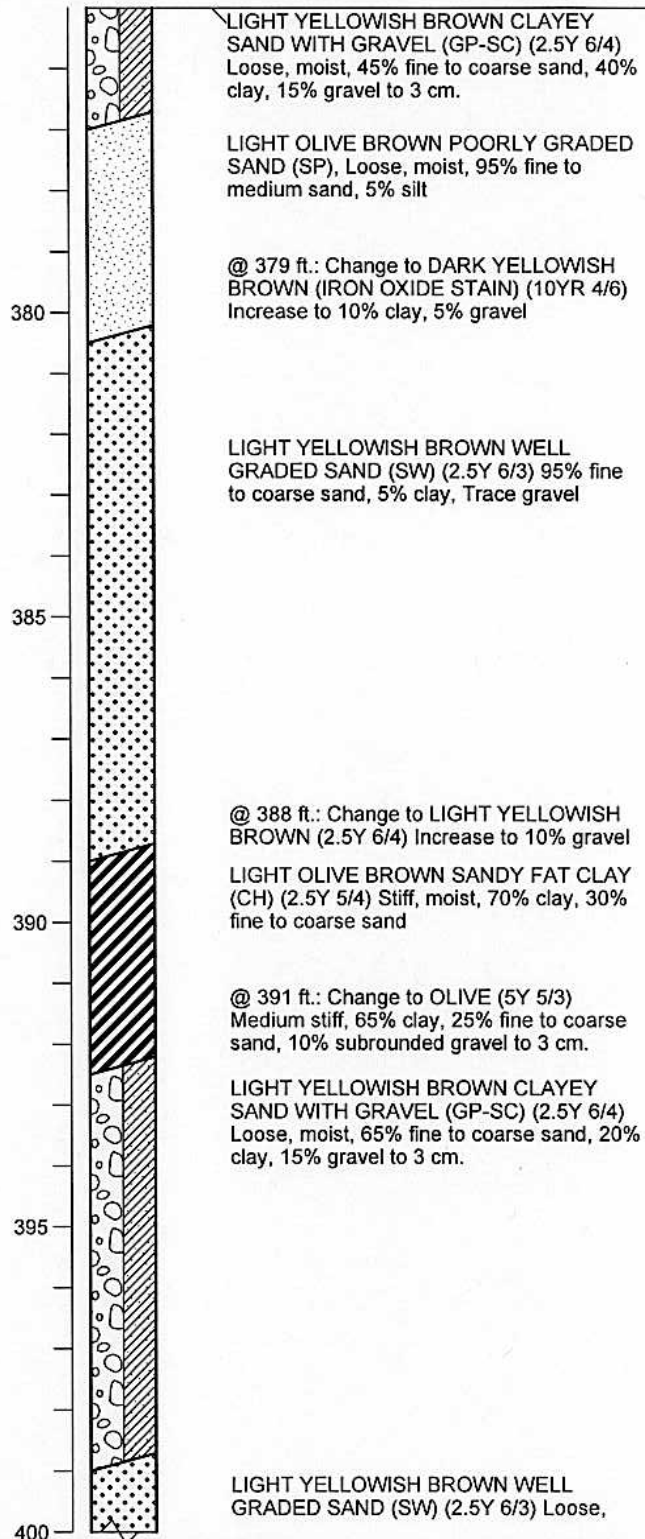
Depth (ft.)
Sample

LONESTAR # 2/12
SANDPACK: 368
to 379 ft.

BENTONITE
PELLET SEAL:
379 to 395 ft.

LONESTAR # 2/12
SANDPACK: 395
to 406 ft.

SAMPLING PORT
MP-BW-37-398 at
399.52 ft.



BORING_WELL_OUCTP_V6.GPJ FTO_OUCTP.GDT 11/24/04



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Log of Boring MP-BW-37
OUCTP

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DATE
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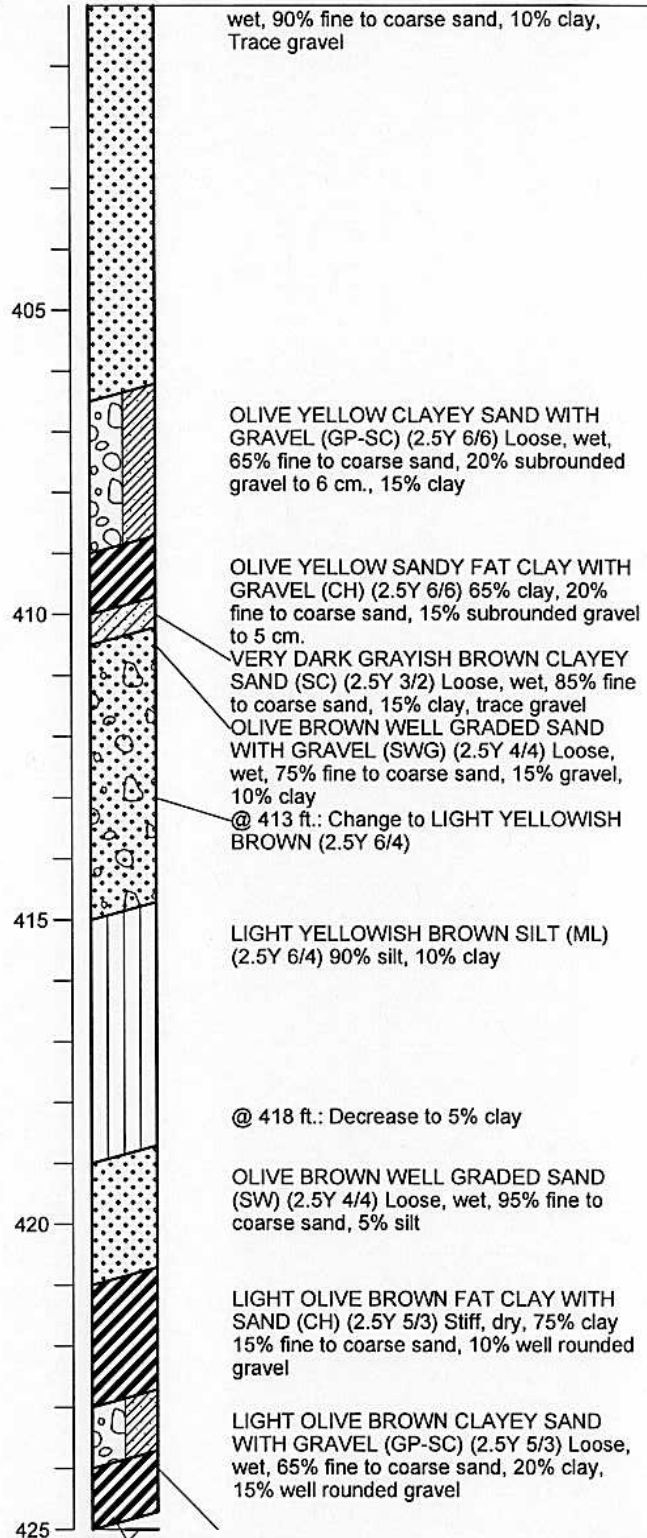
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 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 137.14 ft. Hole Dia. 7 in.
 Northing 2141842.89 Easting 5747152.99

Depth (ft.)
 Sample

EXTERNAL
SCREEN: 400 to
405 ft.

PURGE PORT:
405 ft.

BENTONITE
PELLET SEAL:
337 to 368 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
Log of Boring MP-BW-37
OUCTP

PLATE



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REVISED DATE

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Completion Date 11/17/2002

Drilling Method Sonic

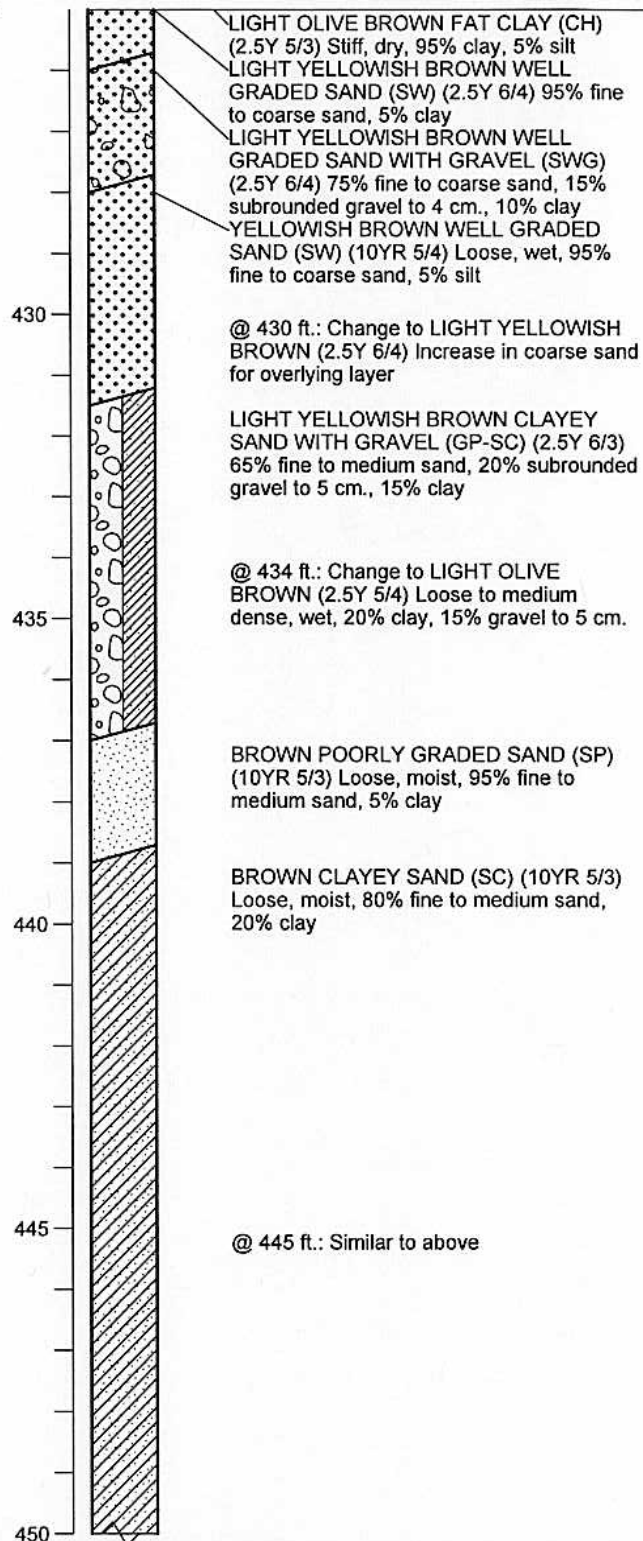
Logged by D. Browne

Surface Elevation 137.14 ft. Hole Dia. 7 in.

Northing 2141842.89 Easting 5747152.99

Depth (ft.)
Sample

BENTONITE
PELLET SEAL:
406 to 452 ft.



BORING WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MP-BW-37
OUCTP

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Fort Ord, California

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JOB NUMBER
55596 001701

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MDT / cm

DATE
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Completion Date 11/17/2002

Drilling Method Sonic

Logged by D. Browne

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Northing 2141842.89 Easting 5747152.99

Depth (ft.)
Sample

BENTONITE
PELLET SEAL:
406 to 452 ft.

SAMPLING PORT
MP-BW-37-460 at
460.73 ft.

EXTERNAL
SCREEN: 460 to
465 ft.

LONESTAR # 2/12
SANDPACK: 452
to 475 ft.

PURGE PORT:
465 ft.

BOTTOM WELL
CAP: 475 ft.

@ 450 ft.: Similar to above

@ 455 ft.: Similar to above

@ 462 ft.: Similar to above

@ 470 ft.: Increase in silt

@ 472 ft.: Similar to above

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MP-BW-37

OUCTP

Fort Ord, California

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A5

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JOB NUMBER
55596 001701

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MDT / cm

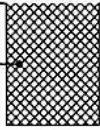
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11/04

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Completion Date 11/17/2002
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 137.14 ft. Hole Dia. 7 in.
 Northing 2141842.89 Easting 5747152.99

Depth (ft.)
 Sample

BENTONITE
 CHIPS: 475 to 477
 ft.



Bottom of boring at 477 ft.

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MP-BW-37
 OUCTP

Fort Ord, California

PLATE

A5

DRAWN
 MBP

JOB NUMBER
 55596 001701

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DATE
 11/04

REVISED DATE

Top of PVC Casing
Elev. 126.17 ft.
CHRISTY
BOX

GROUND SURFACE

7 in. DIAMETER
BOREHOLE: 0 to
457 ft.

MP-38 (38mm.)
PVC SCHEDULE
40 WESTBAY
CASING: 0 to 433
ft.

BENTONITE
-CEMENT SEAL: 0
to 25 ft.

BENTONITE
SLURRY: 25 to
314.5 ft.

Completion Date 10/27/2002

Drilling Method Sonic

Logged by D. Browne

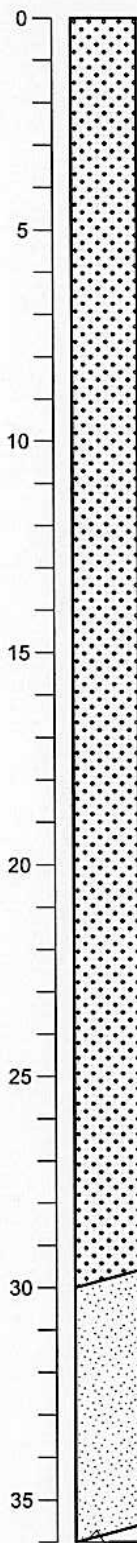
Surface Elevation 127.22 ft.

Hole Dia. 7 in.

Northing 2142962

Easting 5751301.43

Depth (ft.)
Sample



LIGHT YELLOWISH BROWN WELL
GRADED SAND (SW) (10YR 6/4) Loose,
dry, 90% fine to coarse sand, 10% silt

@ 4 ft.: Change to BROWNISH YELLOW
WELL GRADED SAND (10YR 6/6)
@ 5 ft.: Change to OLIVE YELLOW (2.5Y
6/6)

@ 10 ft.: Similar to above

@ 12 ft.: Change to BROWNISH YELLOW
(10YR 6/6) 95% fine to coarse sand, 5% silt

@ 14 ft.: Increase in coarse sand

@ 15 ft.: Similar to above

@ 16 ft.: Increase to 10% silt

@ 18 ft.: 95% fine to coarse sand, 5% silt

@ 20 ft.: Similar to above

@ 22 ft.: Change to YELLOWISH BROWN
(10YR 5/6)

@ 25 ft.: Similar to above

@ 26 ft.: Change to LIGHT OLIVE BROWN
(2.5Y 5/4)

OLIVE YELLOW POORLY GRADED SAND
(SP) (2.5Y 6/6) Loose, dry, 95% fine to
medium sand, 5% silt

@ 35 ft.: Similar to above

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MP-BW-38

OUCTP

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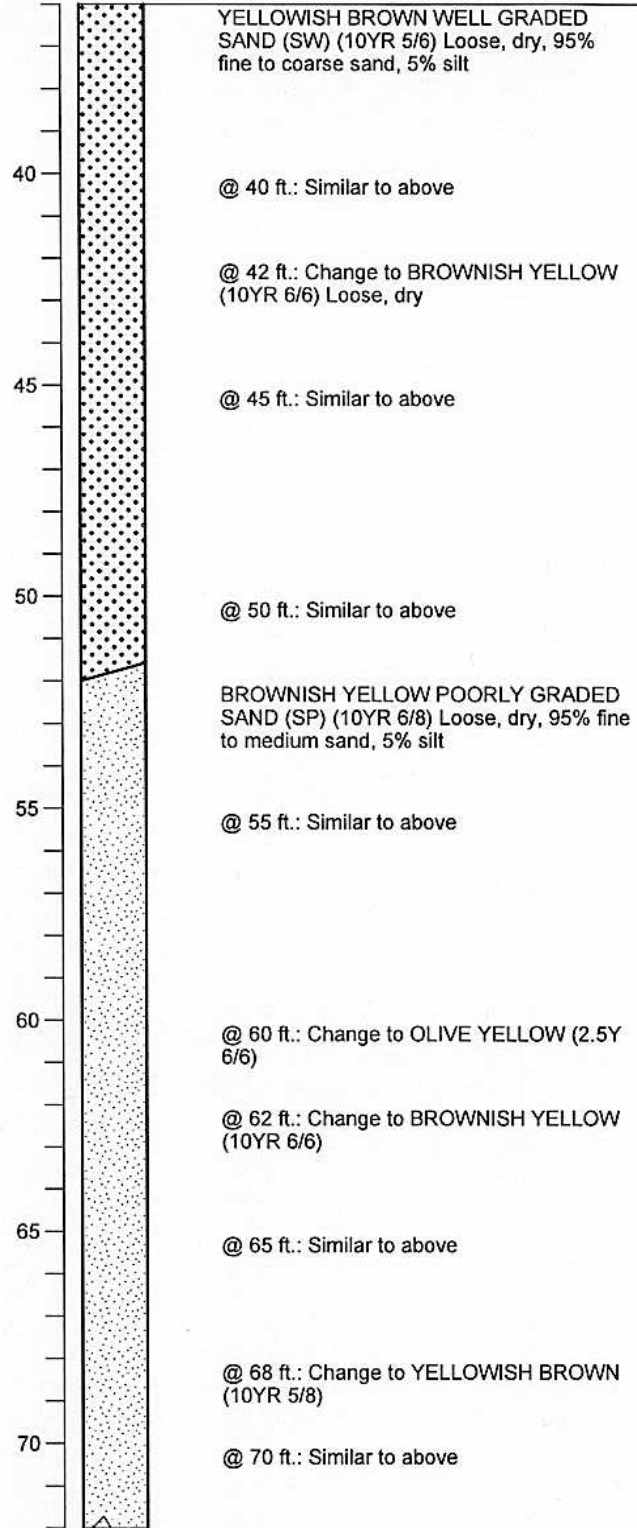
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Completion Date 10/27/2002
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 127.22 ft. Hole Dia. 7 in.
 Northing 2142962 Easting 5751301.43

Depth (ft.)
 Sample

BENTONITE
 SLURRY: 25 to
 314.5 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MP-BW-38
 OUCTP

PLATE

Fort Ord, California

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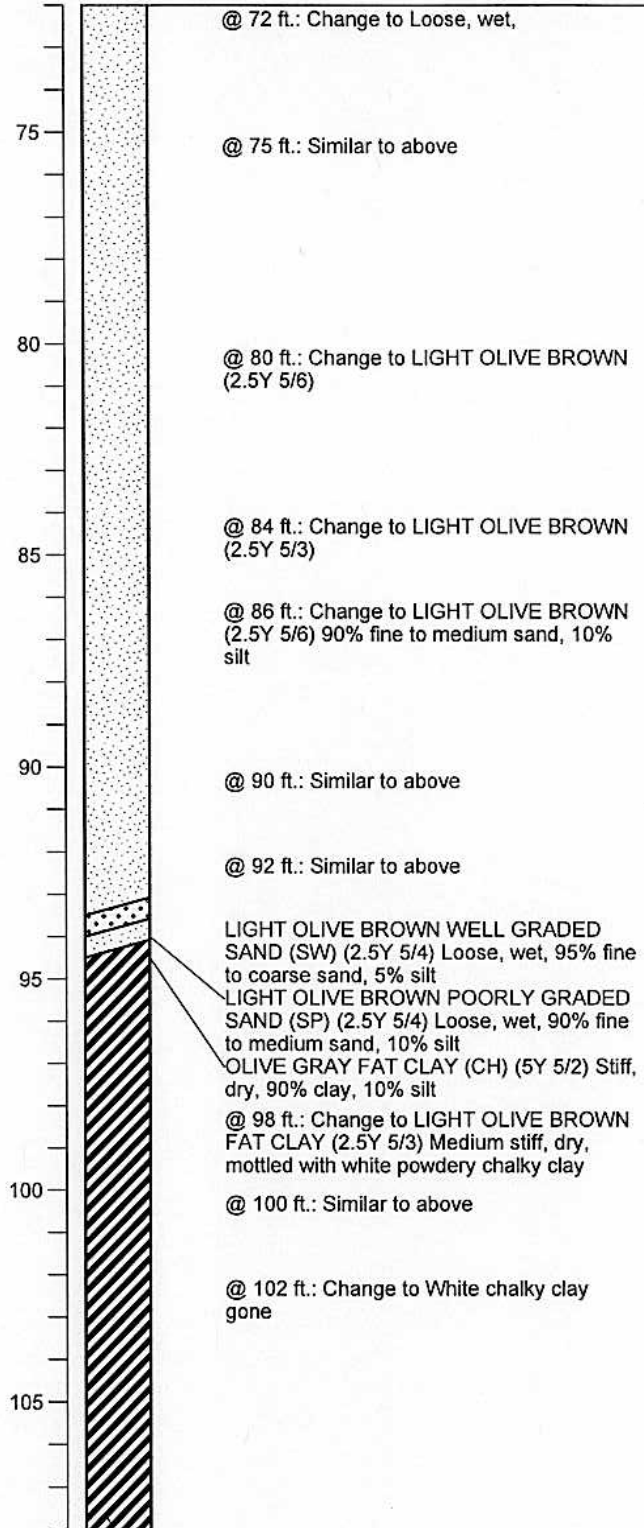
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Completion Date 10/27/2002
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 127.22 ft. Hole Dia. 7 in.
 Northing 2142962 Easting 5751301.43

Depth (ft.)
 Sample

BENTONITE
 SLURRY: 25 to
 314.5 ft.



BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
 Log of Boring MP-BW-38
 OUCTP

PLATE



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 MBP

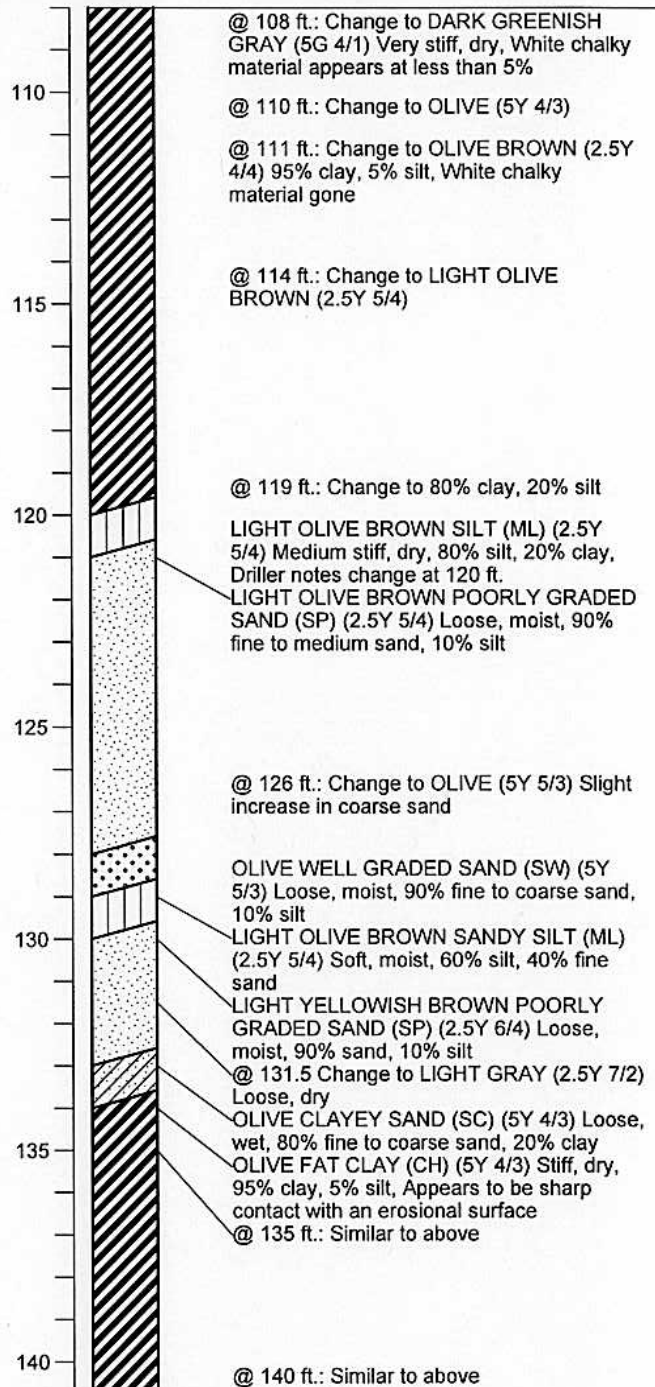
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APPROVED
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DATE
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Completion Date 10/27/2002Drilling Method SonicLogged by D. BrowneSurface Elevation 127.22 ft. Hole Dia. 7 in.Northing 2142962 Easting 5751301.43Depth (ft.)
SampleBENTONITE
SLURRY: 25 to
314.5 ft.

BORING WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
Log of Boring MP-BW-38
OUCTP

PLATE



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Fort Ord, California

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MBPJOB NUMBER
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MDT / cm

DATE
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REVISED DATE

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Completion Date 10/27/2002

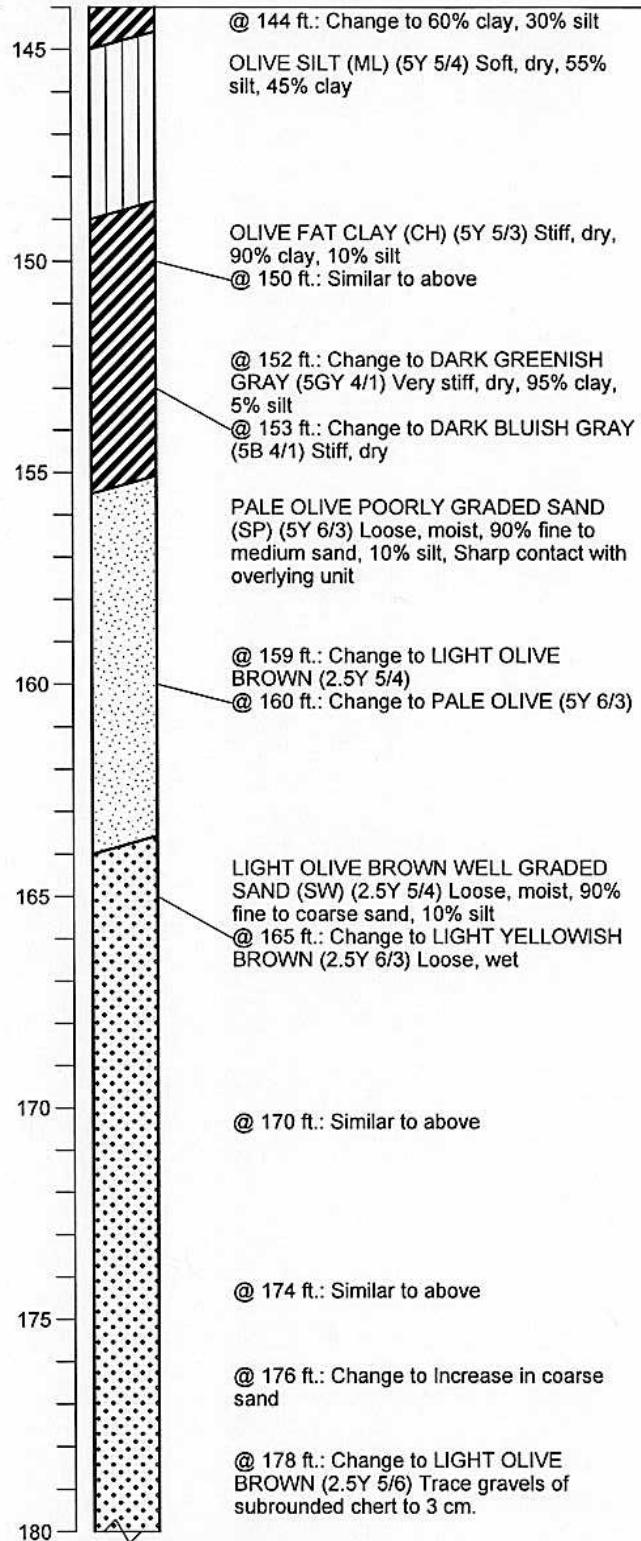
Drilling Method Sonic

Logged by D. Browne

Surface Elevation 127.22 ft. Hole Dia. 7 in.

Northing 2142962 Easting 5751301.43

Depth (ft.)
Sample



BENTONITE
SLURRY: 25 to
314.5 ft.

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MP-BW-38

OUCTP

Fort Ord, California

PLATE



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A6

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MBP

JOB NUMBER
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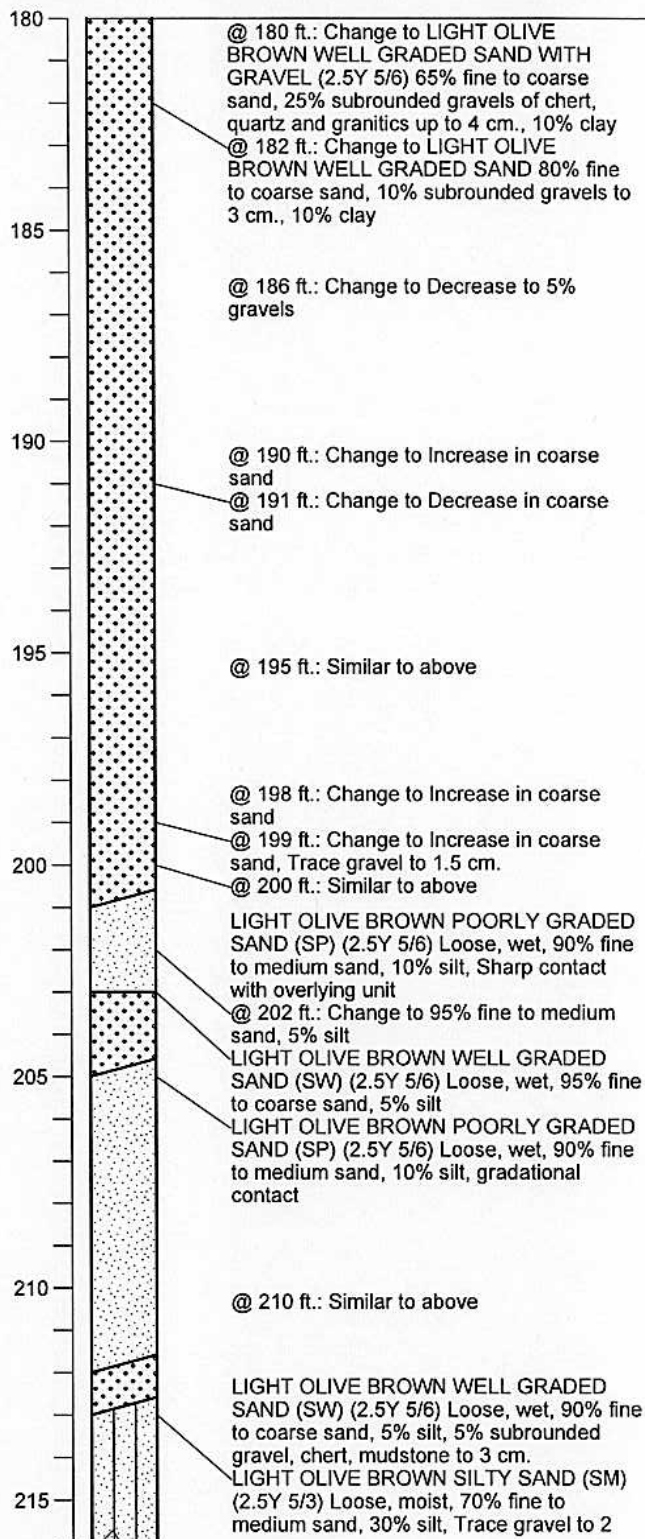
Drilling Method Sonic

Logged by D. Browne

Surface Elevation 127.22 ft. Hole Dia. 7 in.

Northing 2142962 Easting 5751301.43

Depth (ft.)
Sample



BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
Log of Boring MP-BW-38
OUCTP

PLATE



MACTEC

Fort Ord, California

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MBP

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MDT / cm

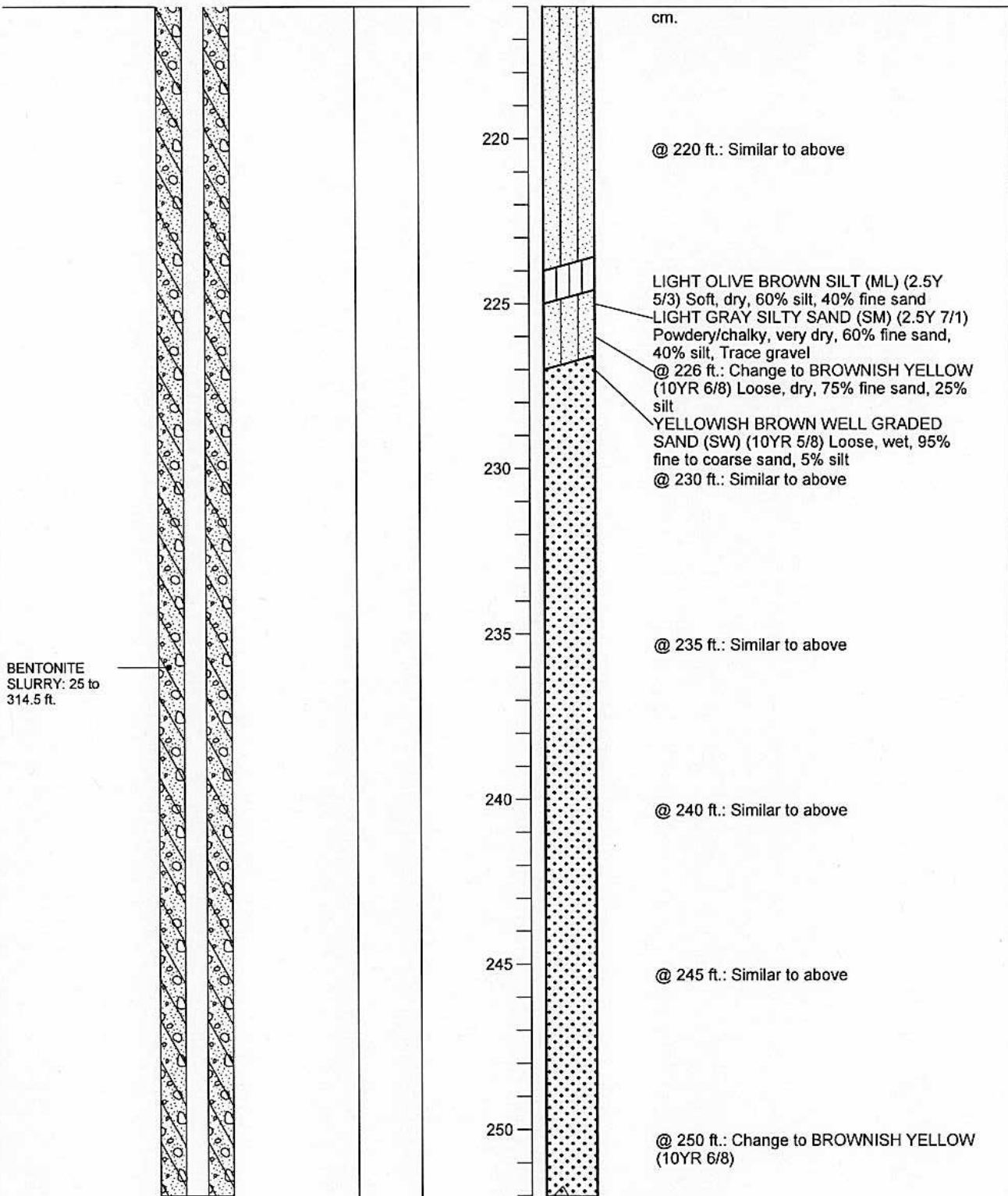
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 Surface Elevation 127.22 ft. Hole Dia. 7 in.
 Northing 2142962 Easting 5751301.43

Depth (ft.)
 Sample



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MP-BW-38
 OUCTP

PLATE

Fort Ord, California

A6

DRAWN
 MBP

JOB NUMBER
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APPROVED
MDT / car

DATE
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REVISED DATE

Completion Date 10/27/2002

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 127.22 ft.

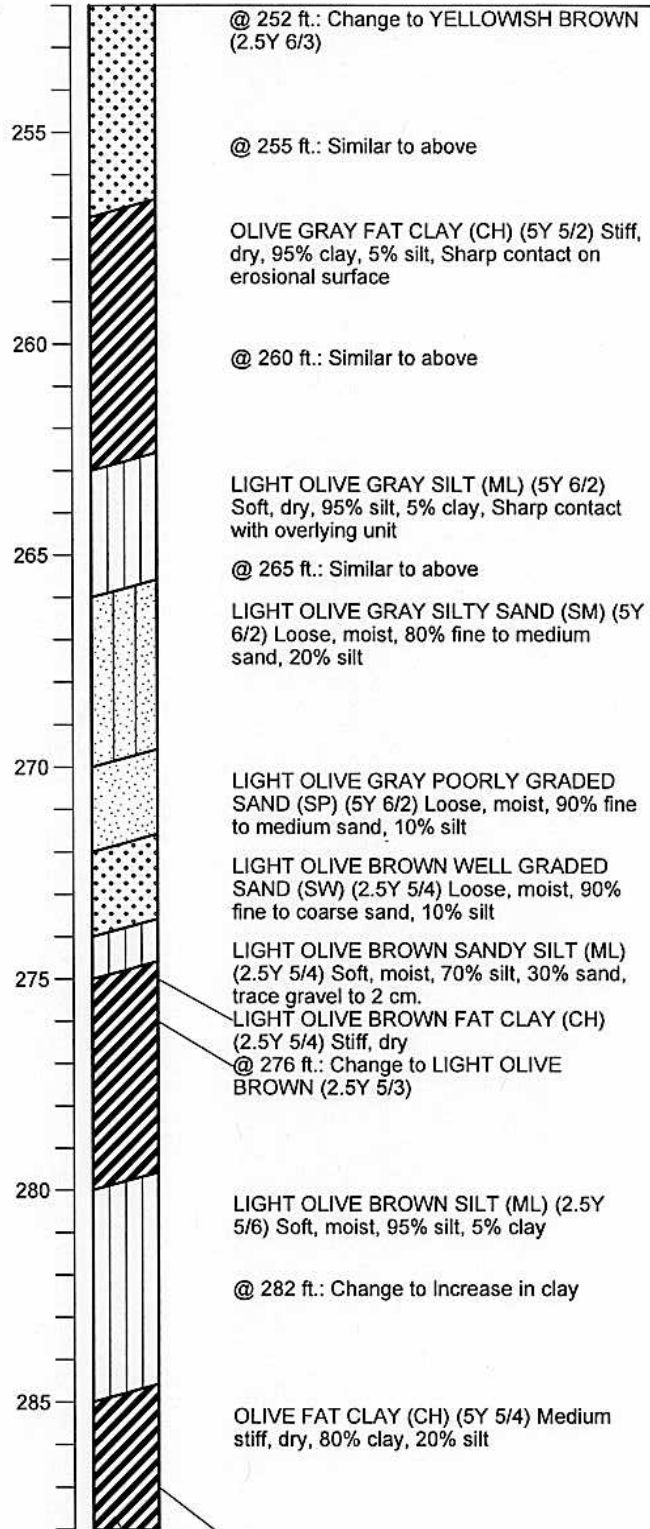
Hole Dia. 7 in.

Northing 2142962

Easting 5751301.43

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
314.5 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

**Well Construction Details and
Log of Boring MP-BW-38**

PLATE

OUCTP

Fort Ord, California

A6



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DRAWN
MBP

JOB NUMBER
55596 001701

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11/04

REVISED DATE

Completion Date 10/27/2002

Drilling Method Sonic

Logged by D. Browne

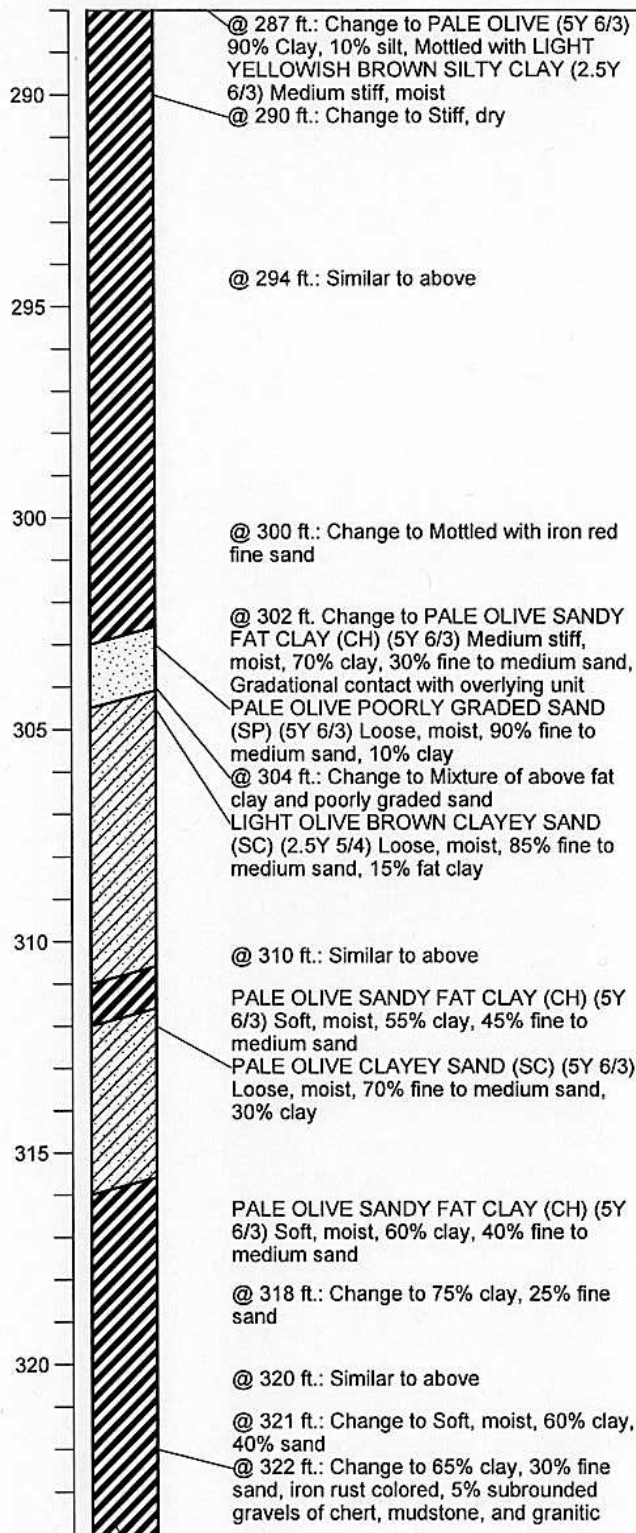
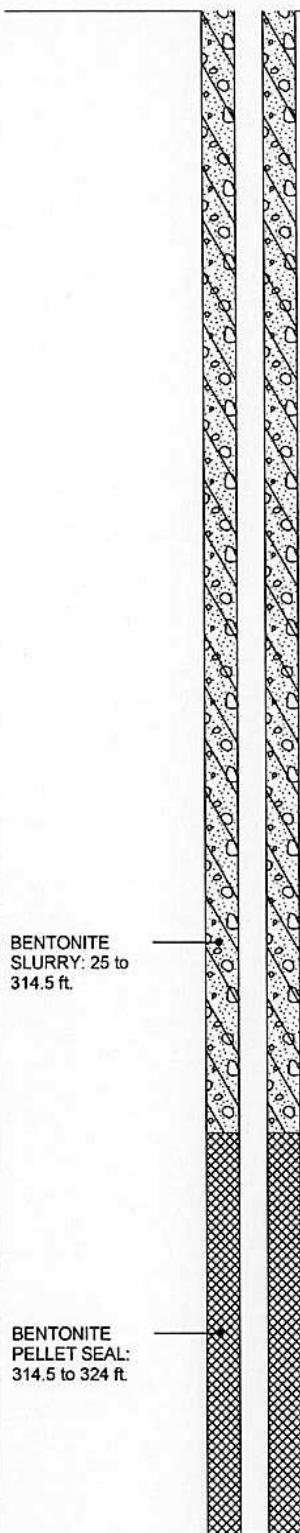
Surface Elevation 127.22 ft.

Hole Dia. 7 in.

Northing 2142962

Easting 5751301.43

Depth (ft.)
Sample



BORING WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
Log of Boring MP-BW-38
OUCTP

PLATE



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Fort Ord, California

A6

DRAWN
MBP

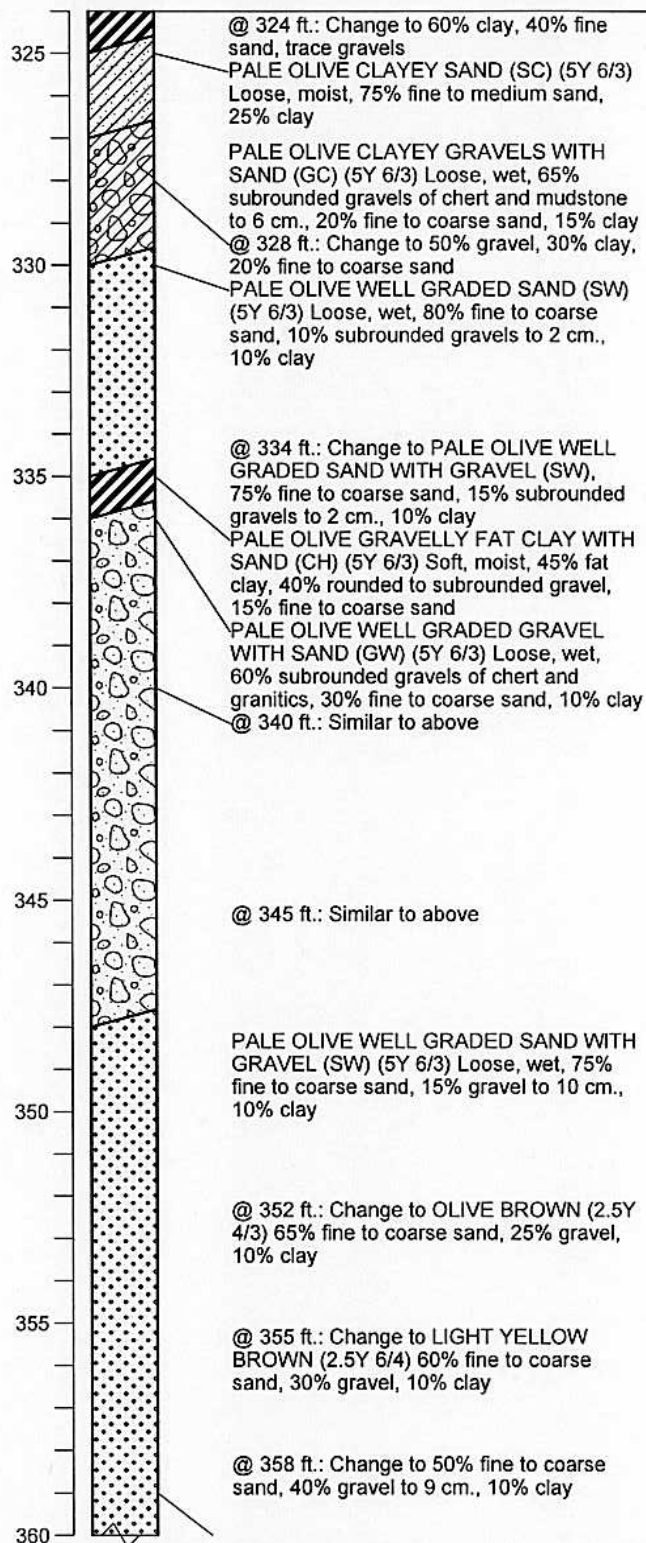
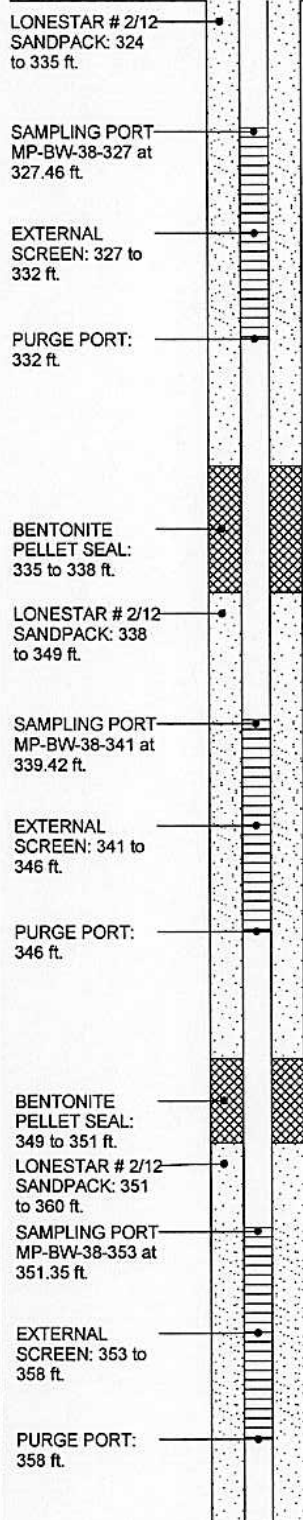
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Completion Date 10/27/2002Drilling Method SonicLogged by D. BrowneSurface Elevation 127.22 ft.Hole Dia. 7 in.Northing 2142962Easting 5751301.43Depth (ft.)
Sample

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
Log of Boring MP-BW-38

PLATE

OUCTP

Fort Ord, California

A6

MACTEC

DRAWN
MBPJOB NUMBER
55596 001701

APPROVED

DATE
11/04

REVISED DATE

Completion Date 10/27/2002

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Surface Elevation 127.22 ft. Hole Dia. 7 in.

Northing 2142962 Easting 5751301.43

Depth (ft.)
Sample

BENTONITE
PELLET SEAL:
360 to 365 ft.

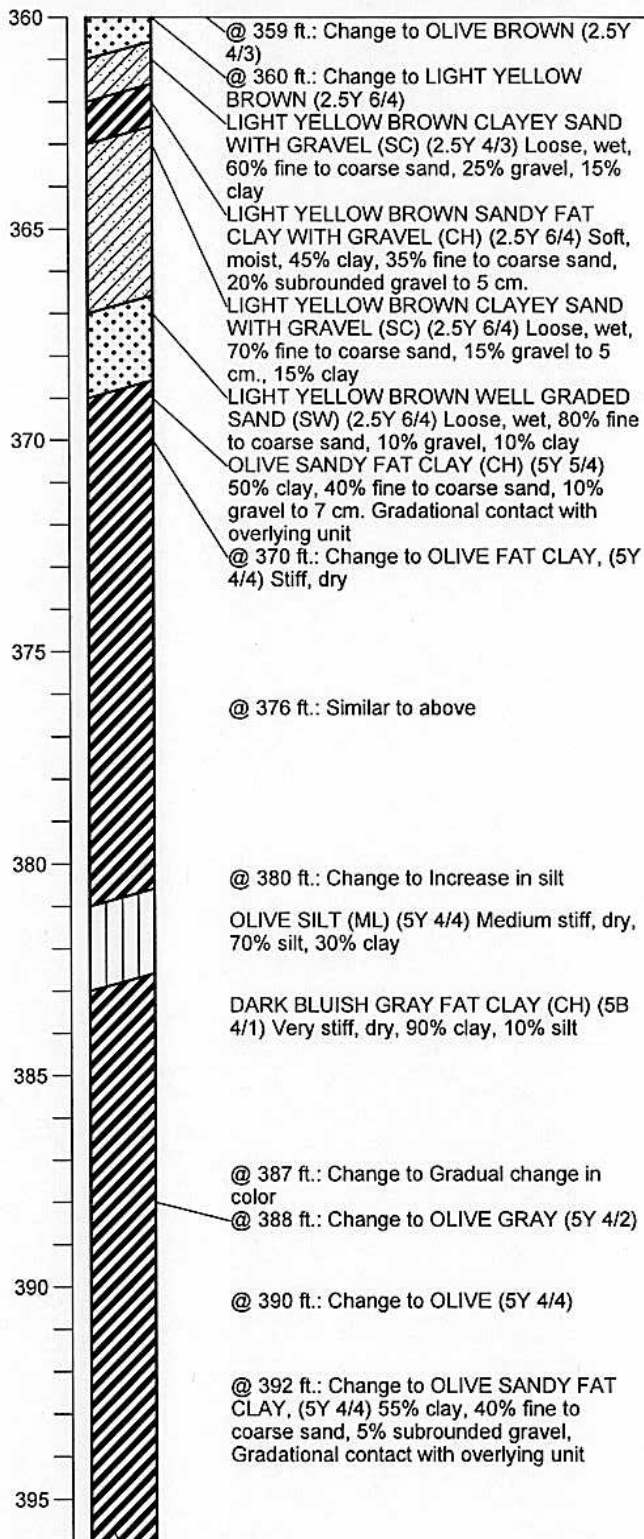
LONESTAR # 2/12
SANDPACK: 365
to 377 ft.

SAMPLING PORT
MP-BW-38-368 at
368.64 ft.

EXTERNAL
SCREEN: 368 to
373 ft.

PURGE PORT:
373 ft.

BENTONITE
PELLET SEAL:
377 to 414 ft.



BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
Log of Boring MP-BW-38
OUCTP

PLATE



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Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED

MDT

DATE
11/04

REVISED DATE

A6

Completion Date 10/27/2002

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 127.22 ft.

Hole Dia. 7 in.

Northing 2142962

Easting 5751301.43

Depth (ft.)
Sample

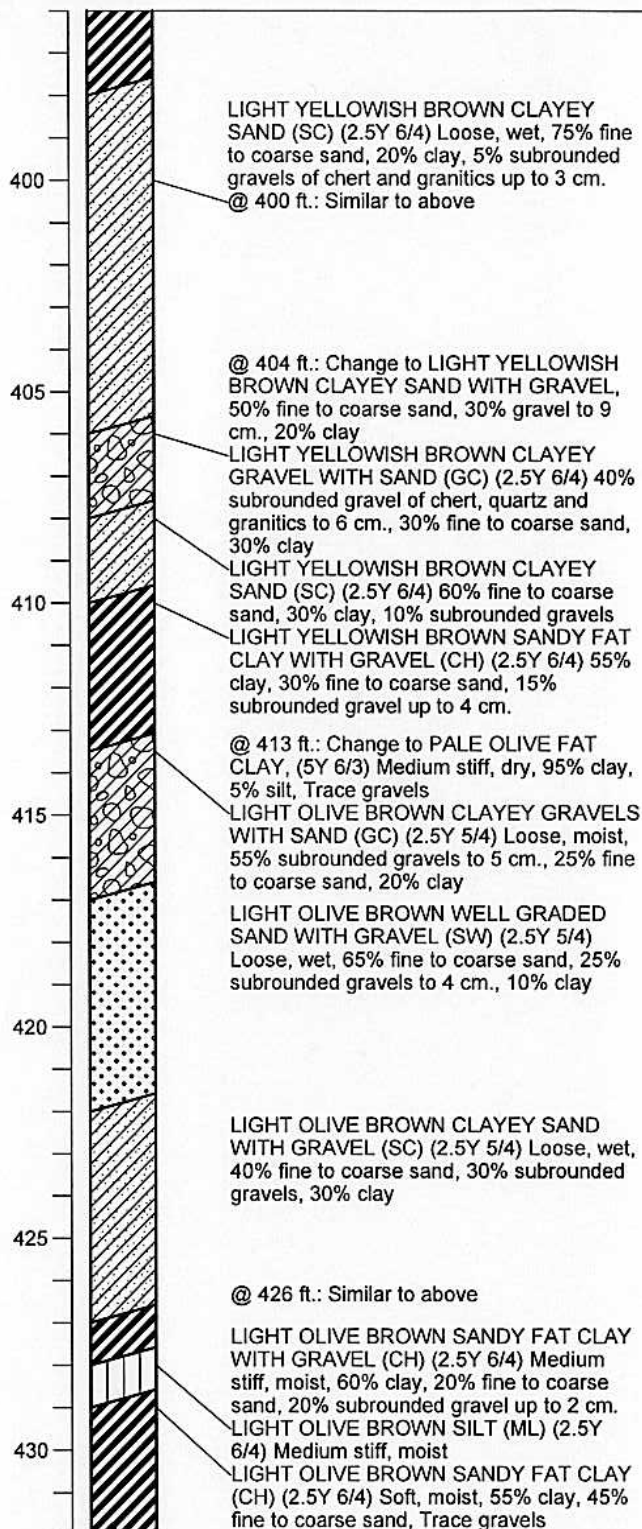
BENTONITE
PELLET SEAL:
377 to 414 ft.

LONESTAR # 2/12
SANDPACK: 414
to 433 ft.

SAMPLING PORT
MP-BW-38-418 at
418.49 ft.

EXTERNAL
SCREEN: 418 to
423 ft.

PURGE PORT:
423 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MP-BW-38

PLATE

OUCTP

Fort Ord, California

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JOB NUMBER
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DATE
11/04

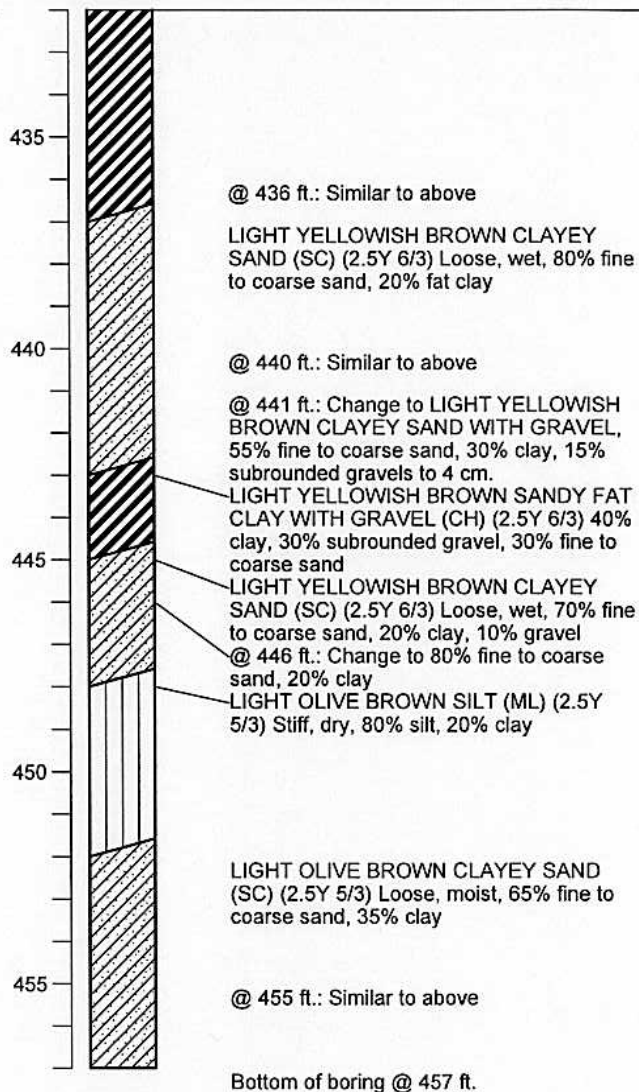
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Completion Date 10/27/2002
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 127.22 ft. Hole Dia. 7 in.
 Northing 2142962 Easting 5751301.43

Depth (ft.)
 Sample

BOTTOM WELL
 CAP: 433 ft.

BENTONITE
 CHIPS: 433 to 457
 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MP-BW-38
 OUCTP

Fort Ord, California

PLATE

A6

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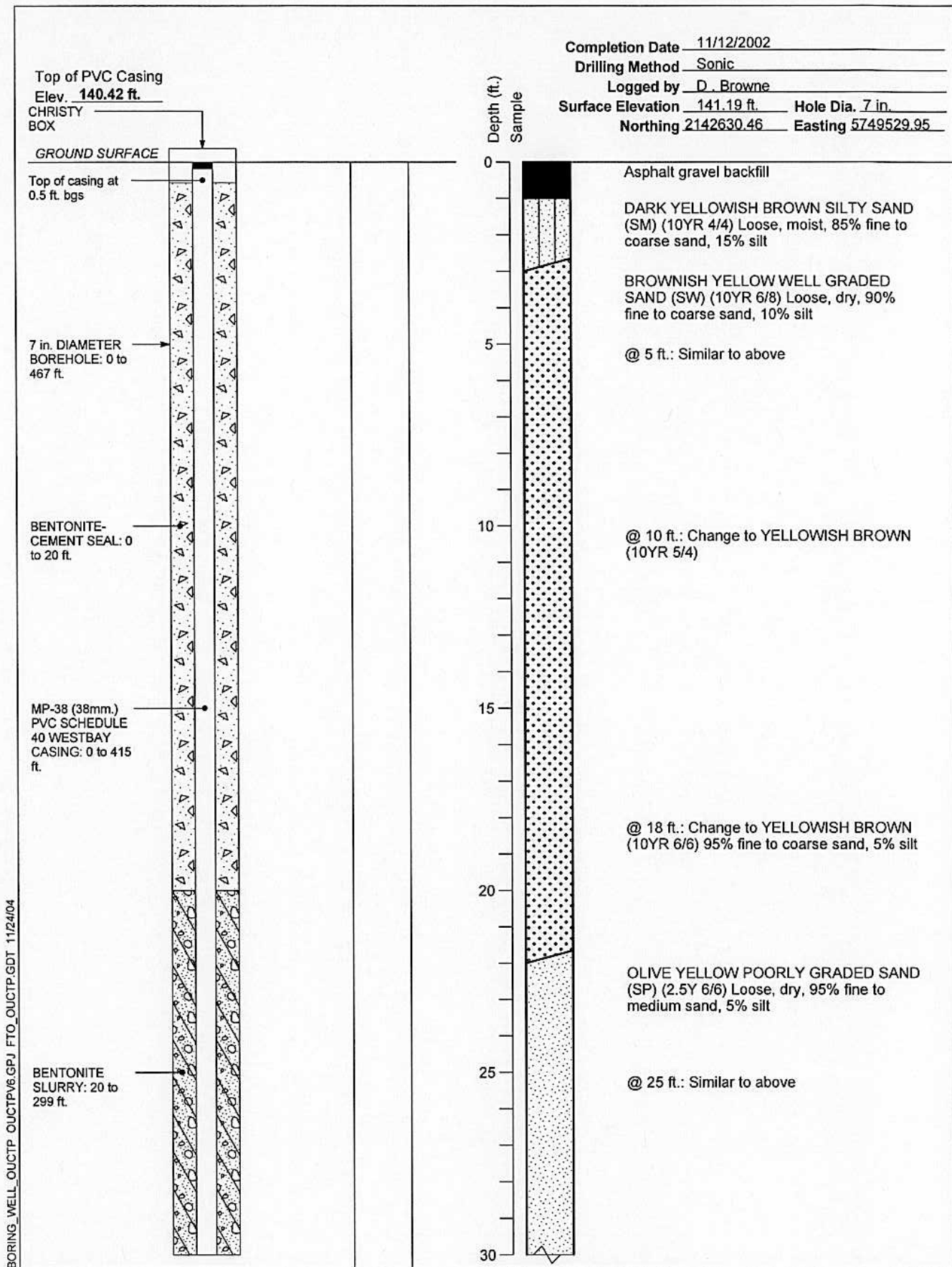
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Well Construction Details and
Log of Boring MP-BW-39

OUCTP

Fort Ord, California

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JOB NUMBER
55596 001701

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DATE
11/04

REVISED DATE

PLATE

A7

Completion Date 11/12/2002

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 141.19 ft.

Hole Dia. 7 in.

Northing 2142630.46

Easting 5749529.95

Depth (ft.)
Sample

BENTONITE
SLURRY: 20 to
299 ft.

30
35
40
45
50
55
60

@ 30 ft.: Similar to above

YELLOWISH BROWN WELL GRADED
SAND (SW) (10YR 5/6) Loose, dry, 95%
fine to coarse sand, 5% silt

YELLOWISH BROWN POORLY GRADED
SAND (SP) (10YR 5/6) Loose, dry, 95% fine
to medium sand, 5% silt

@ 50 ft.: Similar to above

@ 55 ft.: Change to OLIVE YELLOW (2.5Y
6/6) 95% fine to coarse sand, 5% silt

BORING WELL OUCTP OUCTPV6.GPJ FTO OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MP-BW-39
OUCTP

PLATE

A7

Fort Ord, California

DRAWN
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DATE
11/04

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Completion Date 11/12/2002

Drilling Method Sonic

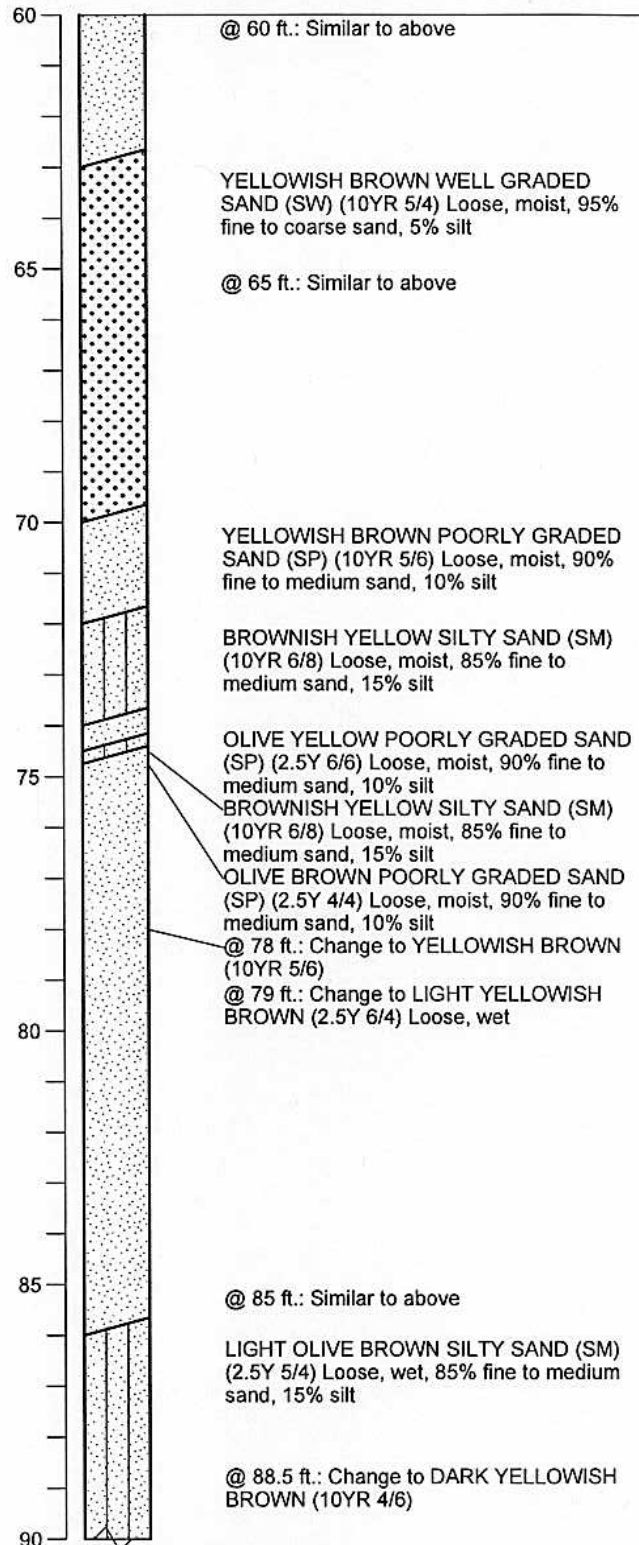
Logged by D. Browne

Surface Elevation 141.19 ft. Hole Dia. 7 in.

Northing 2142630.46 Easting 5749529.95

Depth (ft.)
Sample

BENTONITE
SLURRY: 20 to
299 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MP-BW-39

OUCTP

Fort Ord, California

PLATE

A7

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED
MDT / cm

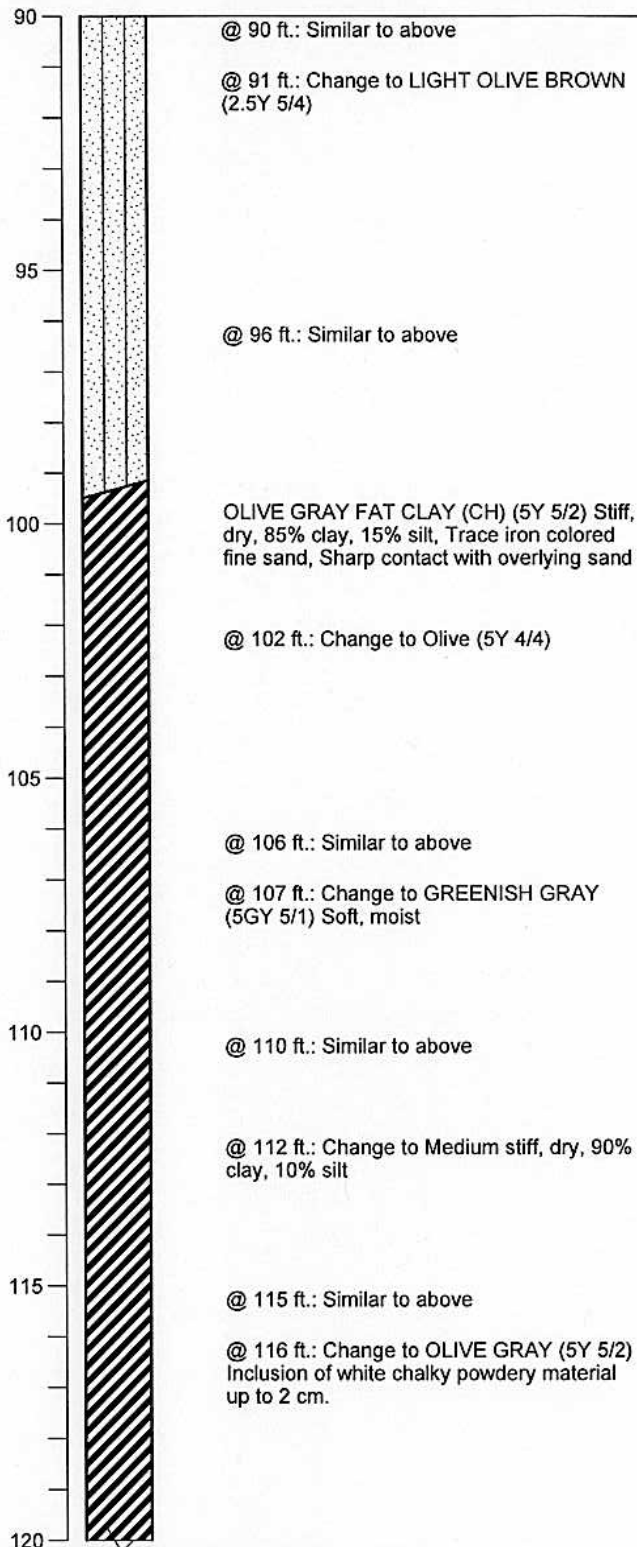
DATE
11/04

REVISED DATE

Completion Date 11/12/2002
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 141.19 ft. Hole Dia. 7 in.
 Northing 2142630.46 Easting 5749529.95

Depth (ft.)
 Sample

BENTONITE
 SLURRY: 20 to
 299 ft.



Well Construction Details and
 Log of Boring MP-BW-39
 OUCTP

PLATE



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Fort Ord, California

A7

DRAWN
 MBP

JOB NUMBER
 55596 001701

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MDT / am

DATE
 11/04

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Drilling Method Sonic

Logged by D. Browne

Surface Elevation 141.19 ft.

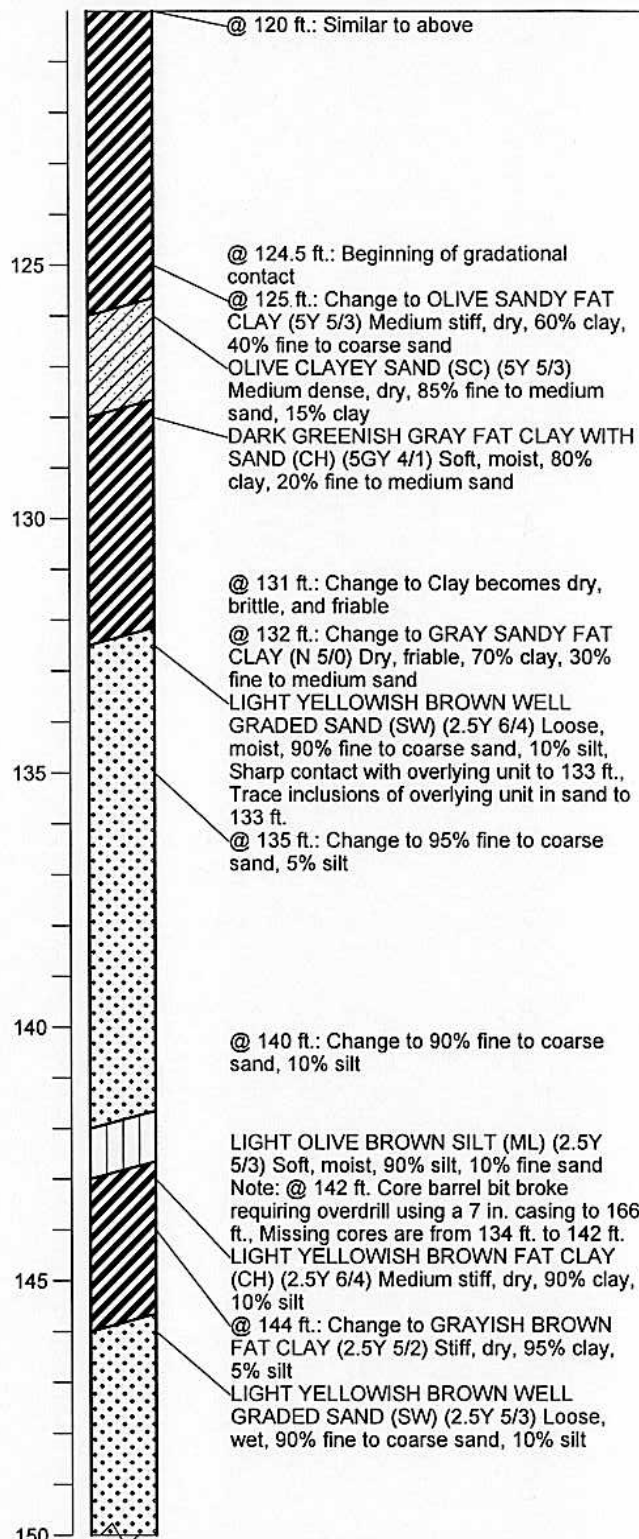
Hole Dia. 7 in.

Northing 2142630.46

Easting 5749529.95

Depth (ft.)
Sample

BENTONITE
SLURRY: 20 to
299 ft.



**Well Construction Details and
Log of Boring MP-BW-39**

PLATE

OUCTP

Fort Ord, California

A7



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Drilling Method Sonic

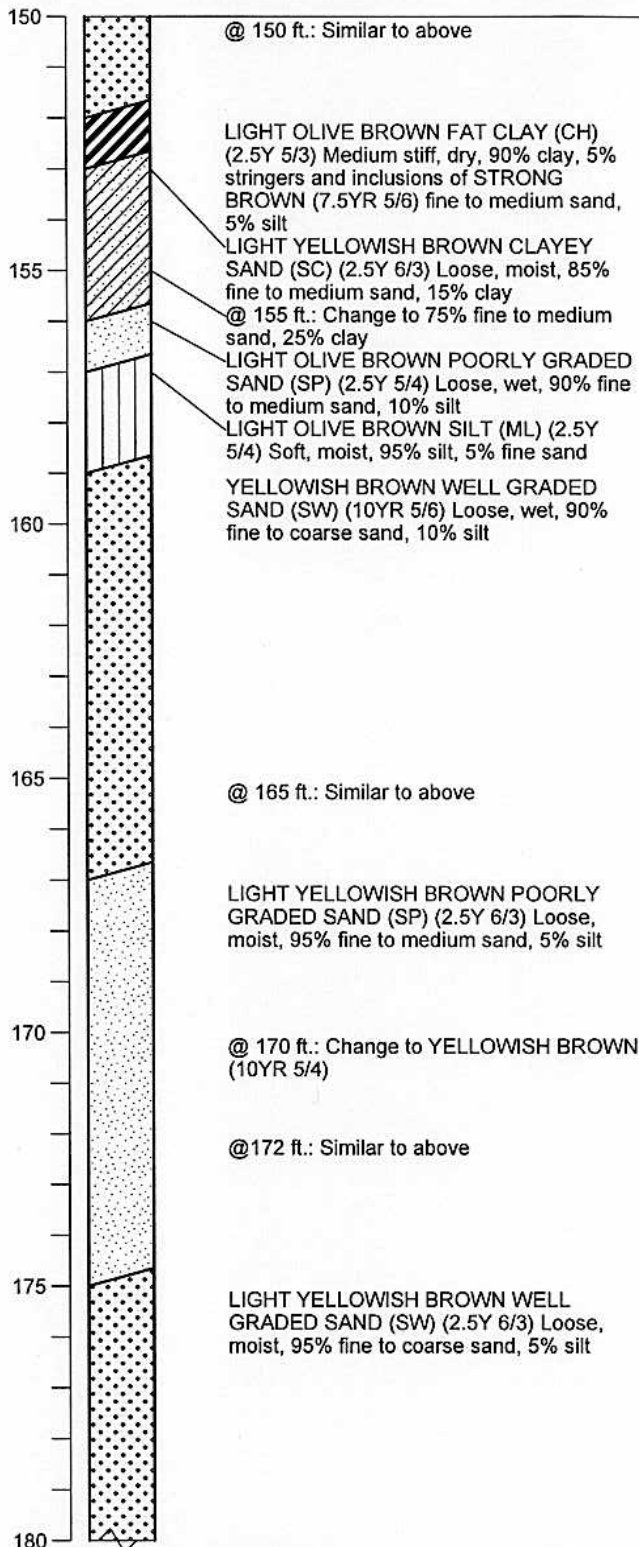
Logged by D. Browne

Surface Elevation 141.19 ft. Hole Dia. 7 in.

Northing 2142630.46 Easting 5749529.95

Depth (ft.)
Sample

BENTONITE
SLURRY: 20 to
299 ft.



BORING WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MP-BW-39

PLATE

OUCTP

Fort Ord, California

DRAWN
MBP

JOB NUMBER
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A7

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Drilling Method Sonic

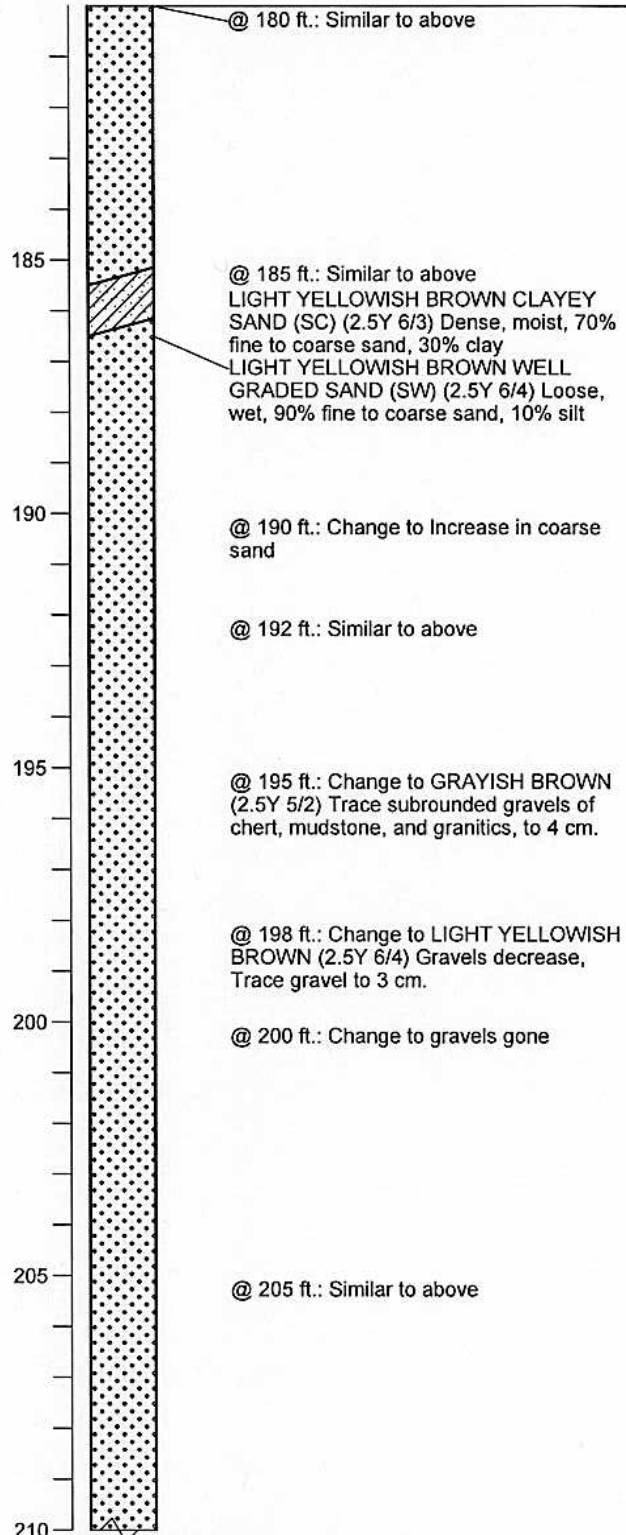
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Surface Elevation 141.19 ft. Hole Dia. 7 in.

Northing 2142630.46 Easting 5749529.95

Depth (ft.)
Sample

BENTONITE
SLURRY: 20 to
299 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MP-BW-39
OUCTP

PLATE

Fort Ord, California

DRAWN
MBP

JOB NUMBER
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DATE
11/04

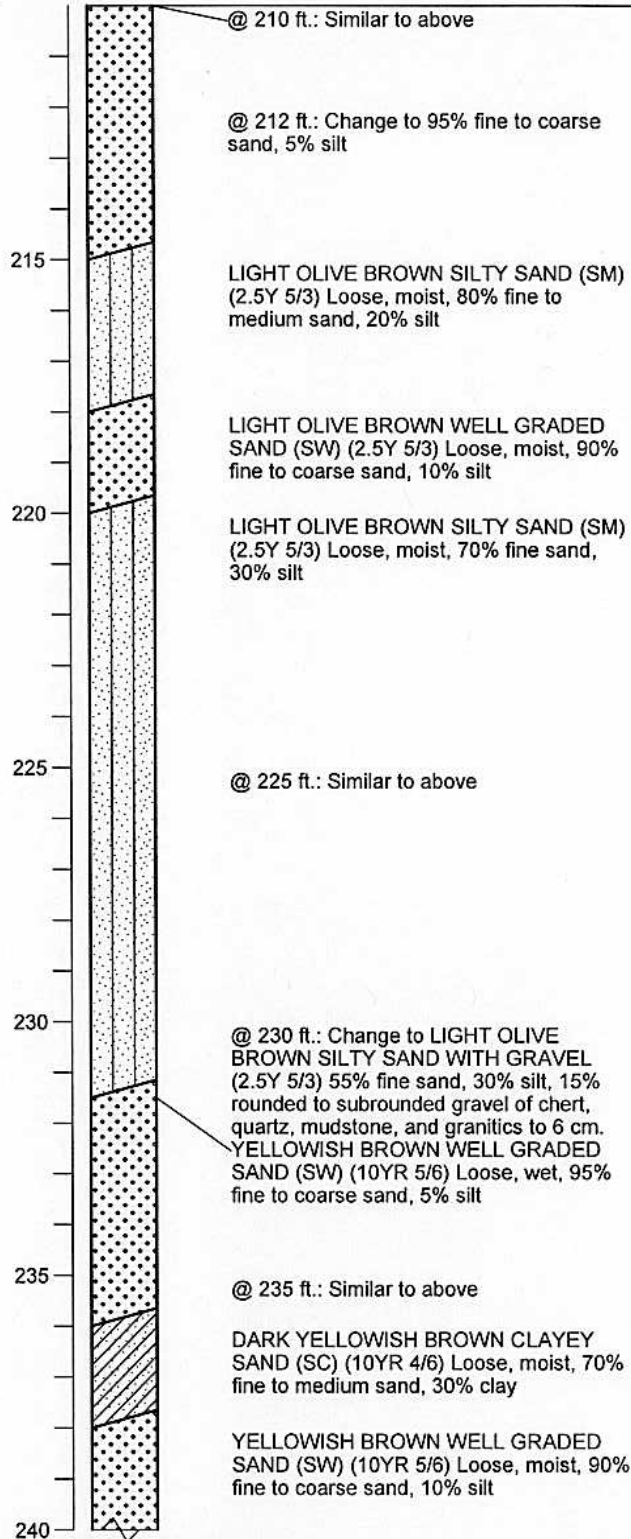
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Completion Date 11/12/2002
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 141.19 ft. Hole Dia. 7 in.
 Northing 2142630.46 Easting 5749529.95

Depth (ft.)
 Sample

BENTONITE
 SLURRY: 20 to
 299 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MP-BW-39
 OUCTP

PLATE

Fort Ord, California

A7

DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED

MDT / cm

DATE
 11/04

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Completion Date 11/12/2002

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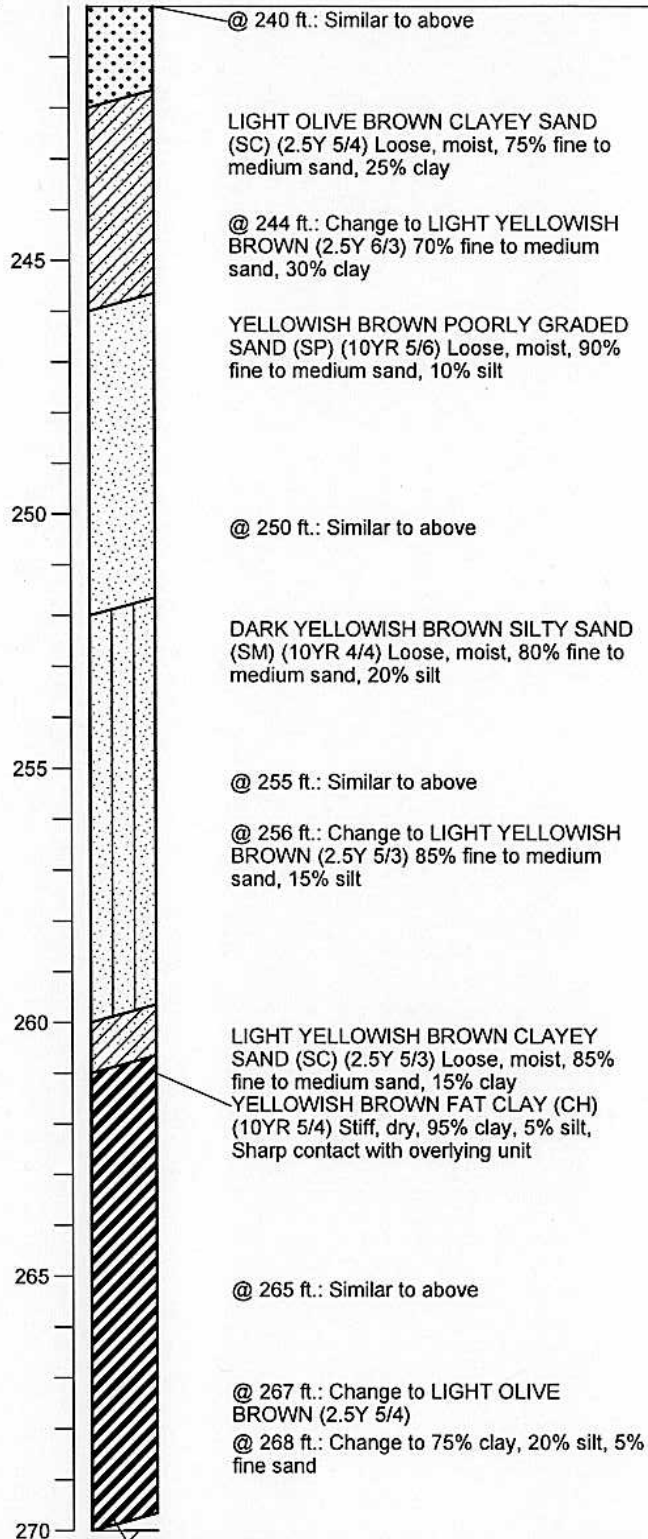
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Surface Elevation 141.19 ft. Hole Dia. 7 in.

Northing 2142630.46 Easting 5749529.95

Depth (ft.)
Sample

BENTONITE
SLURRY: 20 to
299 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MP-BW-39
OUCTP

PLATE

A7

Fort Ord, California

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MBP

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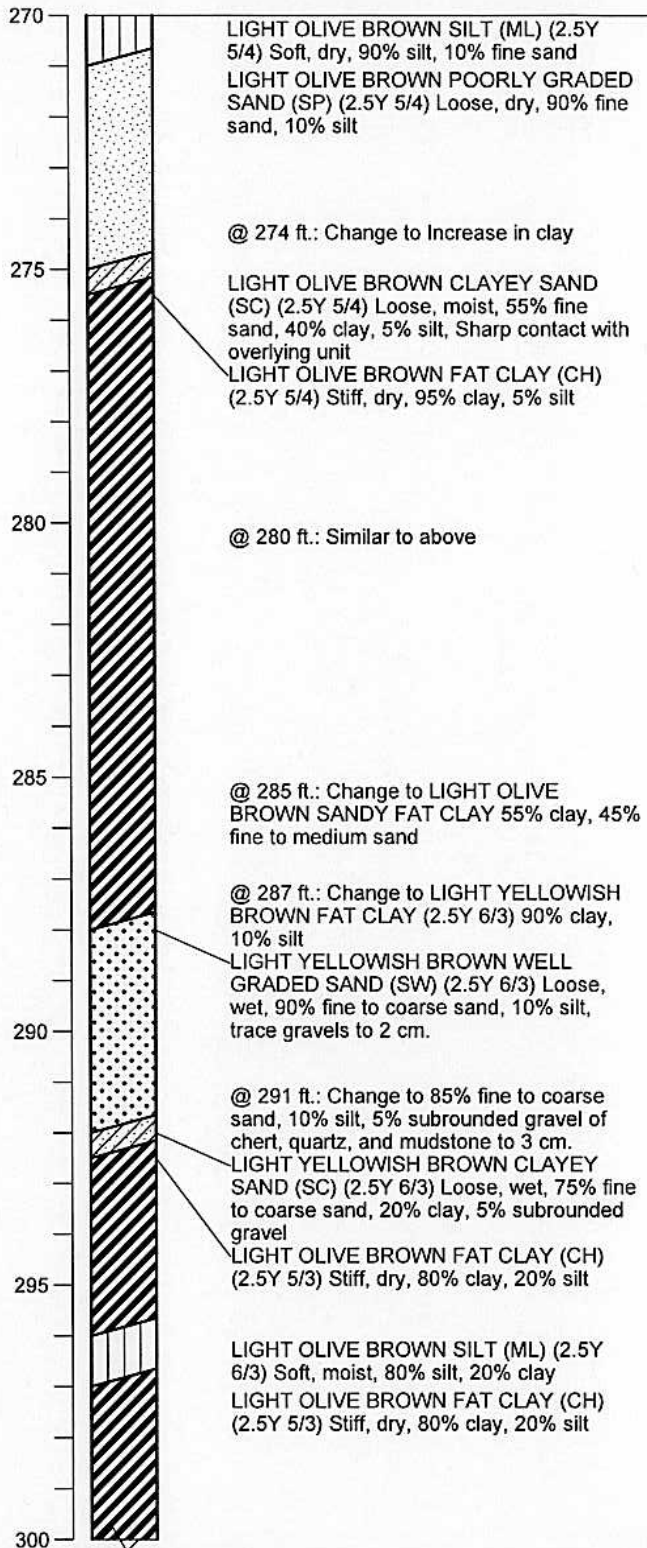
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 Drilling Method Sonic
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 Surface Elevation 141.19 ft. Hole Dia. 7 in.
 Northing 2142630.46 Easting 5749529.95

Depth (ft.)
 Sample

BENTONITE
 SLURRY: 20 to
 299 ft.

BENTONITE
 PELLET SEAL:
 299 to 307 ft.



BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
 Log of Boring MP-BW-39
 OUCTP

PLATE



MACTEC

Fort Ord, California

A7

DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED

DATE
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REVISED DATE

Completion Date 11/12/2002

Drilling Method Sonic

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Surface Elevation 141.19 ft. Hole Dia. 7 in.

Northing 2142630.46 Easting 5749529.95

Depth (ft.)
Sample

BENTONITE
PELLET SEAL:
299 to 307 ft.

LONESTAR # 2/12
SANDPACK: 307
to 318 ft.

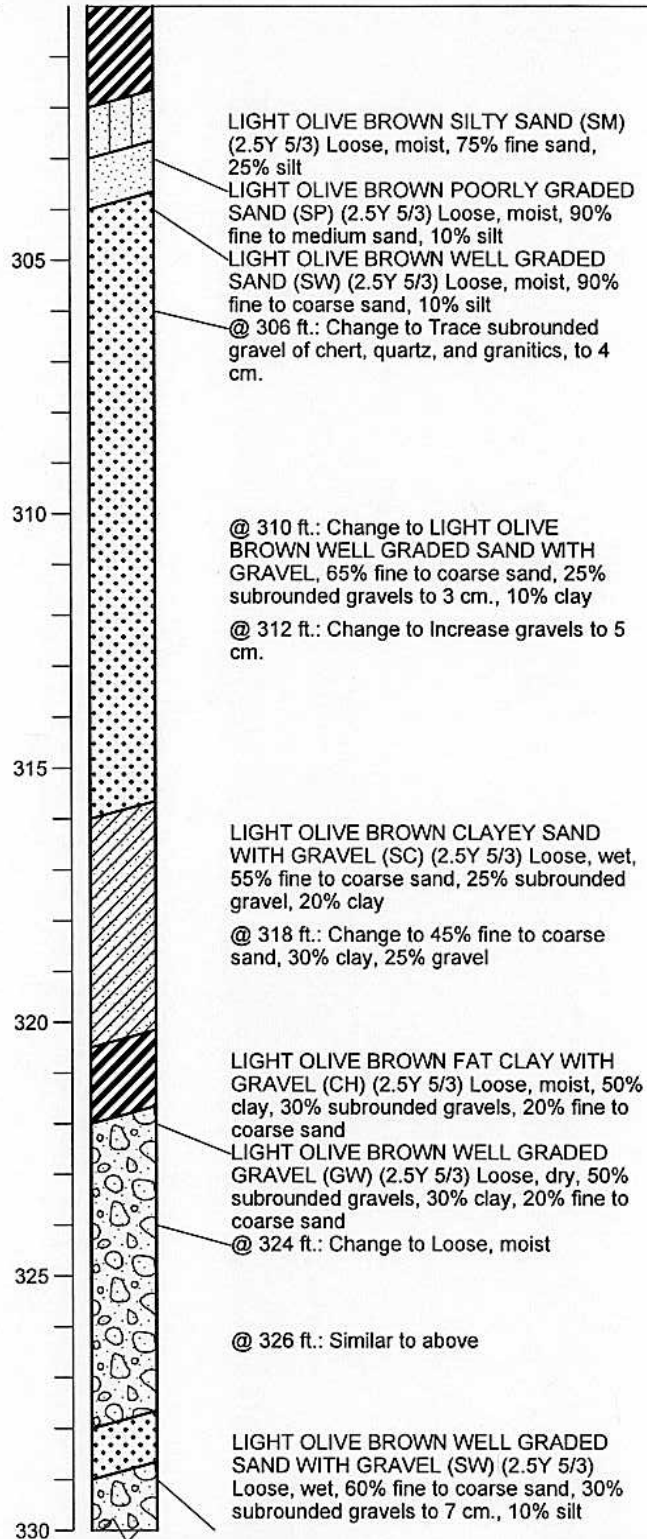
SAMPLING PORT
MP-BW-39-310 at
310.25 ft.

EXTERNAL
SCREEN: 310 to
315 ft.

PURGE PORT:
315 ft.

BENTONITE
PELLET SEAL:
318 to 326 ft.

LONESTAR # 2/12
SANDPACK: 326
to 338 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MP-BW-39
OUCTP

Fort Ord, California

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JOB NUMBER
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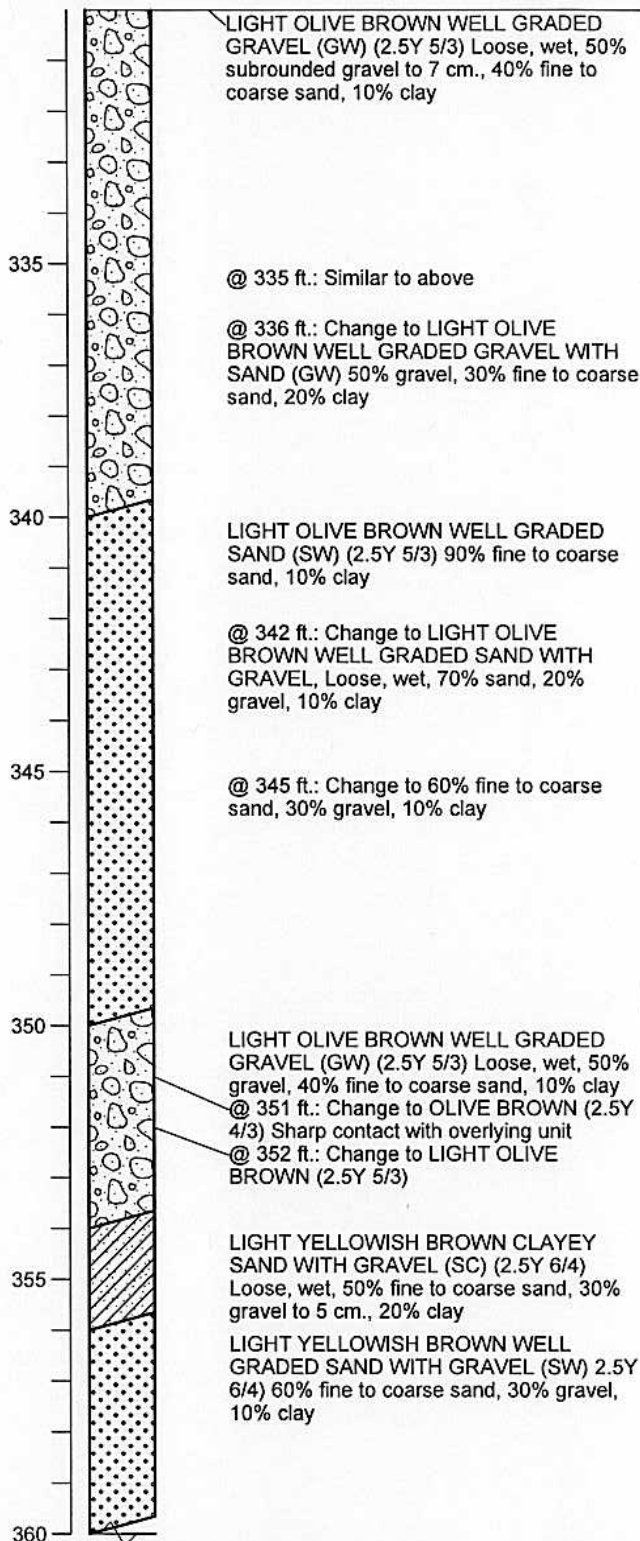
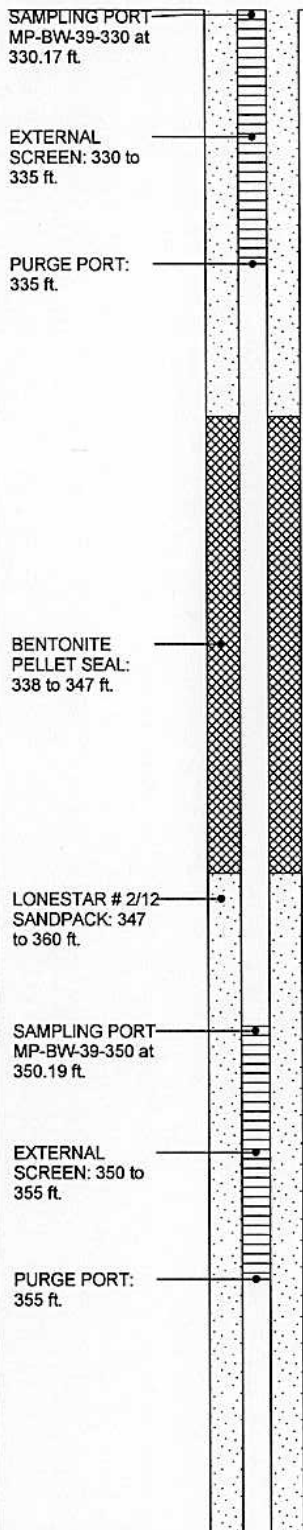
MBP / cm

DATE
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REVISED DATE

Completion Date 11/12/2002
 Drilling Method Sonic
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 Surface Elevation 141.19 ft. Hole Dia. 7 in.
 Northing 2142630.46 Easting 5749529.95

Depth (ft.)
 Sample



BORING WELL OUCTP V6 GPJ FTO OUCTP GDT 1124/04



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Well Construction Details and
 Log of Boring MP-BW-39
 OUCTP

PLATE

A7

Fort Ord, California

DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED

MBP / cm

DATE
 11/04

REVISED DATE

Completion Date 11/12/2002

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 141.19 ft.

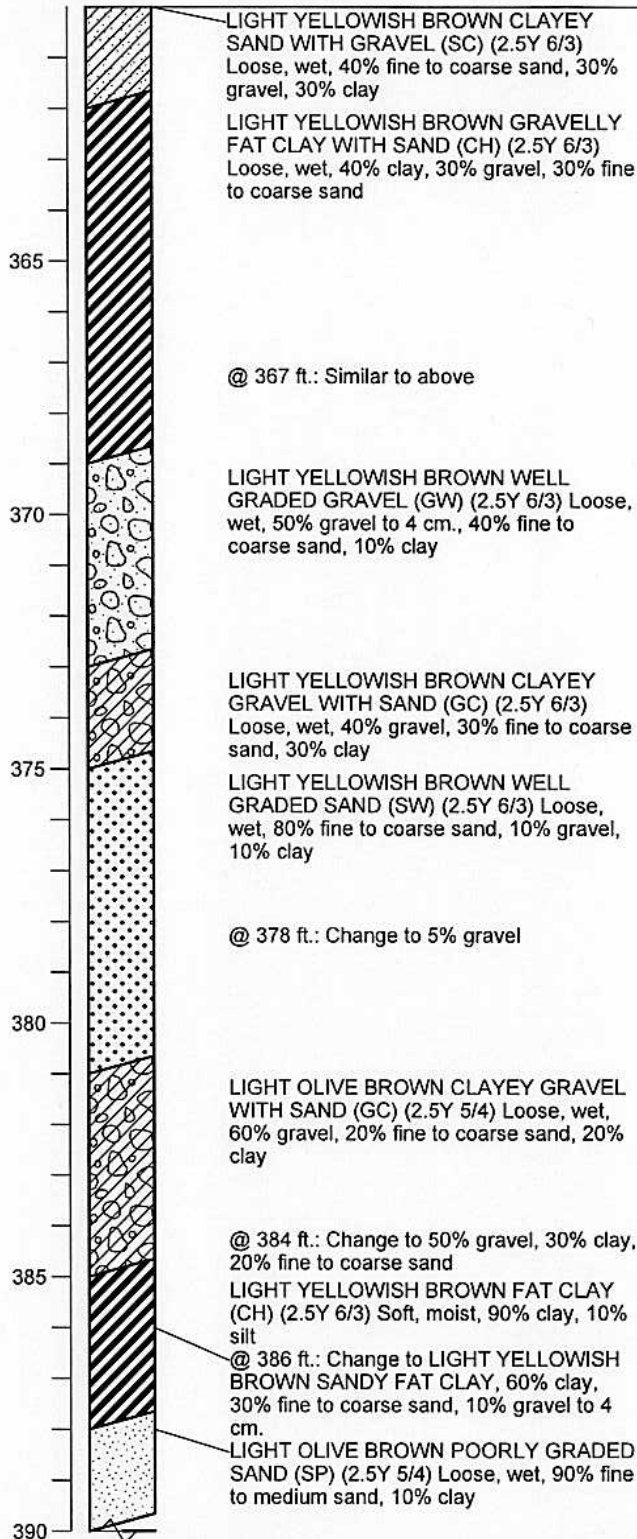
Hole Dia. 7 in.

Northing 2142630.46

Easting 5749529.95

Depth (ft.)
Sample

BENTONITE
PELLET SEAL:
360 to 390 ft.



Well Construction Details and
Log of Boring MP-BW-39
OUCTP

PLATE



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Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

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DATE
11/04

REVISED DATE

A7

Completion Date 11/12/2002

Drilling Method Sonic

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Surface Elevation 141.19 ft.

Hole Dia. 7 in.

Northing 2142630.46

Easting 5749529.95

Depth (ft.)
Sample

LONESTAR # 2/12
SANDPACK: 390
to 415 ft.

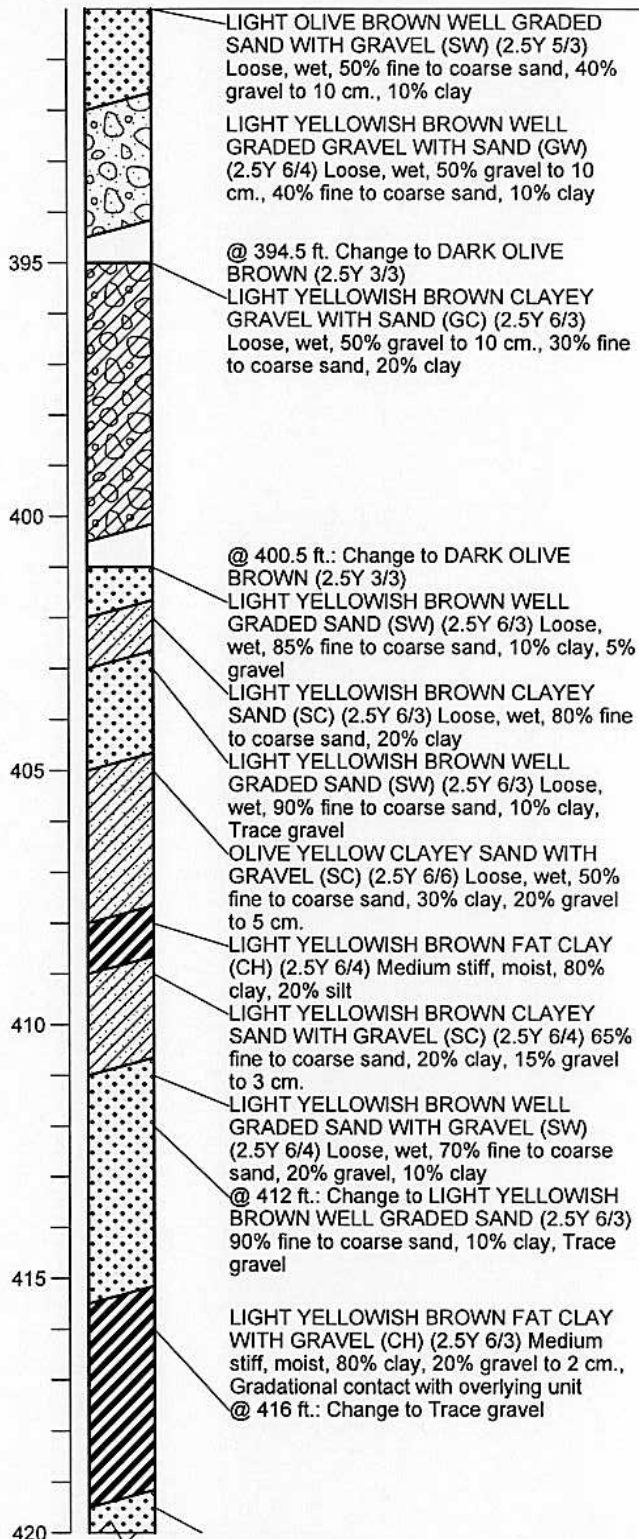
SAMPLING PORT
MP-BW-39-395 at
394.53 ft.

EXTERNAL
SCREEN: 395 to
400 ft.

PURGE PORT:
400 ft.

BOTTOM WELL
CAP: 415 ft.

BENTONITE
CHIPS: 415 to 467
ft.



BORING WELL OUCTP OUCTPV6.GPJ FTO OUCTP.GDT 11/24/04

Well Construction Details and
Log of Boring MP-BW-39
OUCTP

PLATE



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Fort Ord, California

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MBP

JOB NUMBER
55596 001701

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DATE
11/04

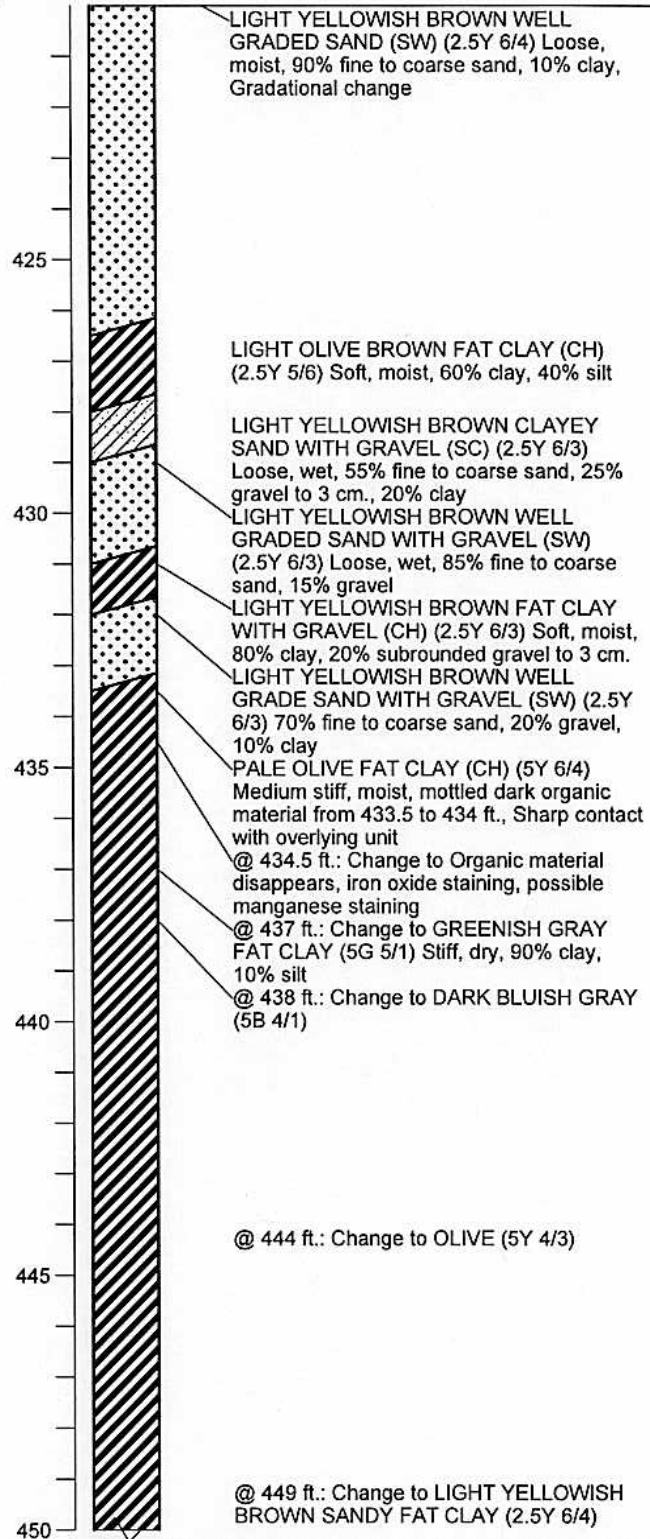
REVISED DATE

A7

Completion Date 11/12/2002
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 141.19 ft. Hole Dia. 7 in.
 Northing 2142630.46 Easting 5749529.95

Depth (ft.)
 Sample

BENTONITE
 CHIPS: 415 to 467
 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
 Log of Boring MP-BW-39
 OUCTP

PLATE



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Fort Ord, California

A7

DRAWN
 MBP

JOB NUMBER
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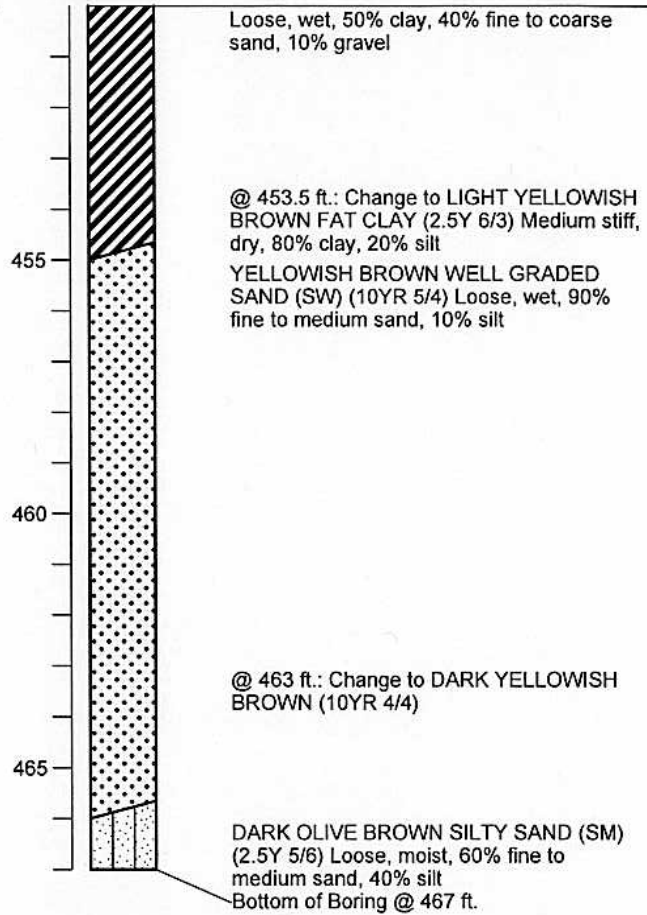
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 Northing 2142630.46 Easting 5749529.95

Depth (ft.)
 Sample

BENTONITE
 CHIPS: 415 to 467
 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MP-BW-39
 OUCTP

Fort Ord, California

PLATE

A7

DRAWN
 MBP

JOB NUMBER
 55596 001701

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MDT / am

DATE
 11/04

REVISED DATE

Top of PVC Casing
Elev. **126.42 ft.**
CHRISTY
BOX

GROUND SURFACE

Top of casing at
0.5 ft. bgs

7 in. DIAMETER
BOREHOLE: 0 to
496 ft.

BENTONITE-
CEMENT SEAL: 0
to 25 ft.

MP-38 (38mm.)
PVC SCHEDULE
40 WESTBAY
CASING: 0 to 416
ft.

BENTONITE
SLURRY: 25 to
319 ft.

Completion Date 10/13/2002

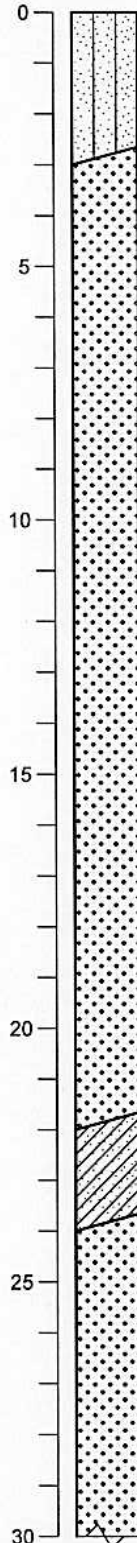
Drilling Method Sonic

Logged by D. Browne

Surface Elevation 127.7 ft. Hole Dia. 7 in.

Northing 2142544.13 Easting 5751938.94

Depth (ft.)
Sample



LIGHT OLIVE BROWN SILTY SAND (SM)
(2.5Y 5/3) Loose, dry, 80% fine to coarse
sand, 20% silt

BROWNISH YELLOW WELL GRADED
SAND (SW) (10YR 6/6) Loose, dry, 90%
fine to coarse sand, 10% silt

@ 5 ft.: Change to YELLOWISH BROWN
(10YR 5/6)

@ 12 ft.: Change to VERY DARK GRAY
(2.5Y 3/1) Loose, dry, 90% fine to coarse
sand, 10% silt

@ 14 ft.: Change to DARK YELLOWISH
BROWN (10YR 4/4)

@ 15 ft.: Change to BROWN (10YR 5/3)

@ 18 ft.: Change to YELLOWISH BROWN
(10YR 5/6) Loose, dry, Increase in coarse
sand

@ 20 ft.: Change to Decrease in coarse
sand

DARK GRAYISH BROWN CLAYEY SAND
(SC) (10YR 4/2) Loose, dry, 85% fine to
coarse sand, 15% lean clay

YELLOWISH BROWN WELL GRADED
SAND (SW) (10YR 5/6) Loose, dry, 90%
fine to coarse sand, 10% silt

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MP-BW-40
OUCTP

PLATE

Fort Ord, California

A8

DRAWN
MBP

JOB NUMBER
55596 001701

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[Signature]

DATE
11/04

REVISED DATE

Completion Date 10/13/2002

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 127.7 ft.

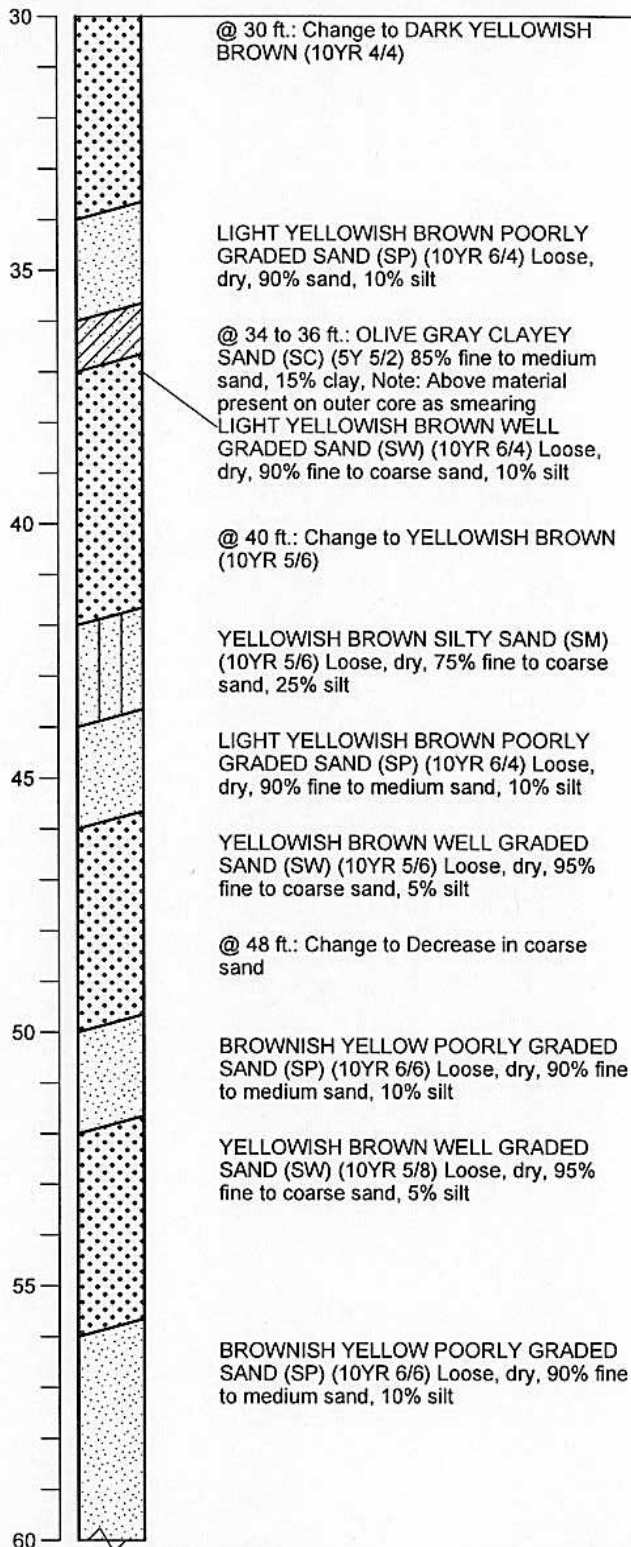
Hole Dia. 7 in.

Northing 2142544.13

Easting 5751938.94

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
319 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MP-BW-40
OUCTP

PLATE

Fort Ord, California

A8

DRAWN
MBP

JOB NUMBER
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 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 127.7 ft. Hole Dia. 7 in.
 Northing 2142544.13 Easting 5751938.94

Depth (ft.)
 Sample

BENTONITE
 SLURRY: 25 to
 319 ft.

60
65
70
75
80
85
90

BROWNISH YELLOW WELL GRADED
 SAND (SW) (10YR 6/6) Loose, dry, 95%
 fine to coarse sand, 5% silt

@ 72-76 ft.: OLIVE CLAYEY SAND (SC)
 (5Y 5/3) 85% fine sand, 15% clay, Note:
 Above material present as smearing on
 outer 0.125 of core.

BROWNISH YELLOW WELL GRADED
 SAND (SW) (10YR 6/6) Loose, moist, 95%
 fine to coarse sand, 5% silt

@ 80 ft.: Change to Loose, wet

@ 82 ft.: Change to BROWN (10YR 5/3)

BROWN POORLY GRADED SAND (SP)
 (10YR 5/3) Loose, wet, 90% fine to medium
 sand, 10% silt

BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MP-BW-40
 OUCTP

PLATE

Fort Ord, California

A8

DRAWN
 MBP

JOB NUMBER
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Drilling Method Sonic

Logged by D. Browne

Surface Elevation 127.7 ft.

Hole Dia. 7 in.

Northing 2142544.13

Easting 5751938.94

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
319 ft.

90
95
100
105
110
115
120

@ 95 ft.: Change to YELLOWISH RED
(5YR 5/8) Loose, wet, 90% medium sand,
10% silt, Note: Iron staining present
OLIVE FAT CLAY WITH SAND (CH) (5Y
5/3) Medium stiff, moist, 85% clay, 15% fine
sand, Trace iron staining and organic
residue

@ 97 ft.: Change to OLIVE GRAY FAT
CLAY (5Y 5/2) Stiff, moist, 95% clay, 5% silt

@ 101 ft.: Driller notes material becomes
more stiff

@ 108 ft.: Change to Trace fine to medium
sand

@ 110 ft.: Change to Trace fine to medium
sand with possible shell fragments

@ 111 ft.: Change to Medium stiff, moist

@ 116 ft.: Change to YELLOWISH BROWN
(10YR 5/4) Medium stiff, moist

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MP-BW-40
OUCTP

PLATE

A8

Fort Ord, California

DRAWN
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APPROVED

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Drilling Method Sonic

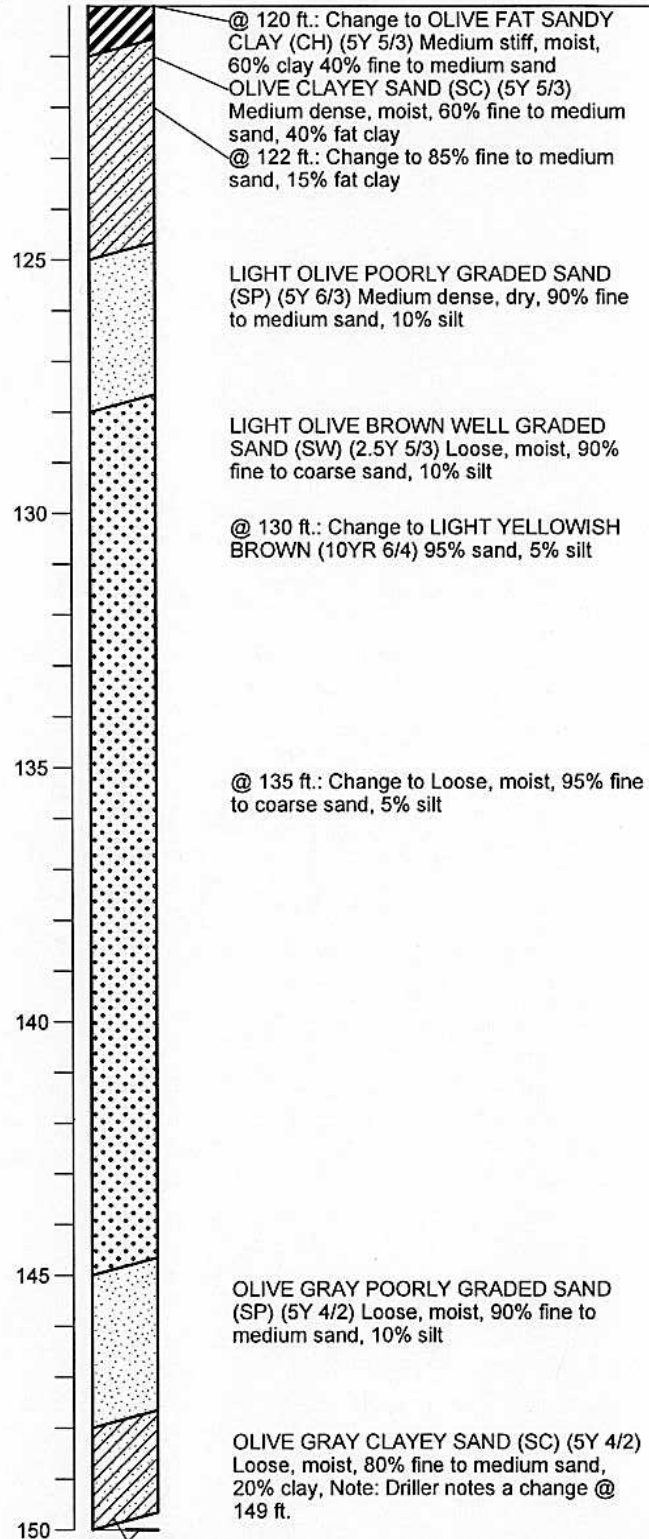
Logged by D. Browne

Surface Elevation 127.7 ft. Hole Dia. 7 in.

Northing 2142544.13 Easting 5751938.94

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
319 ft.



BORING WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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DRAWN
MBP

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Well Construction Details and
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OUCTP

Fort Ord, California

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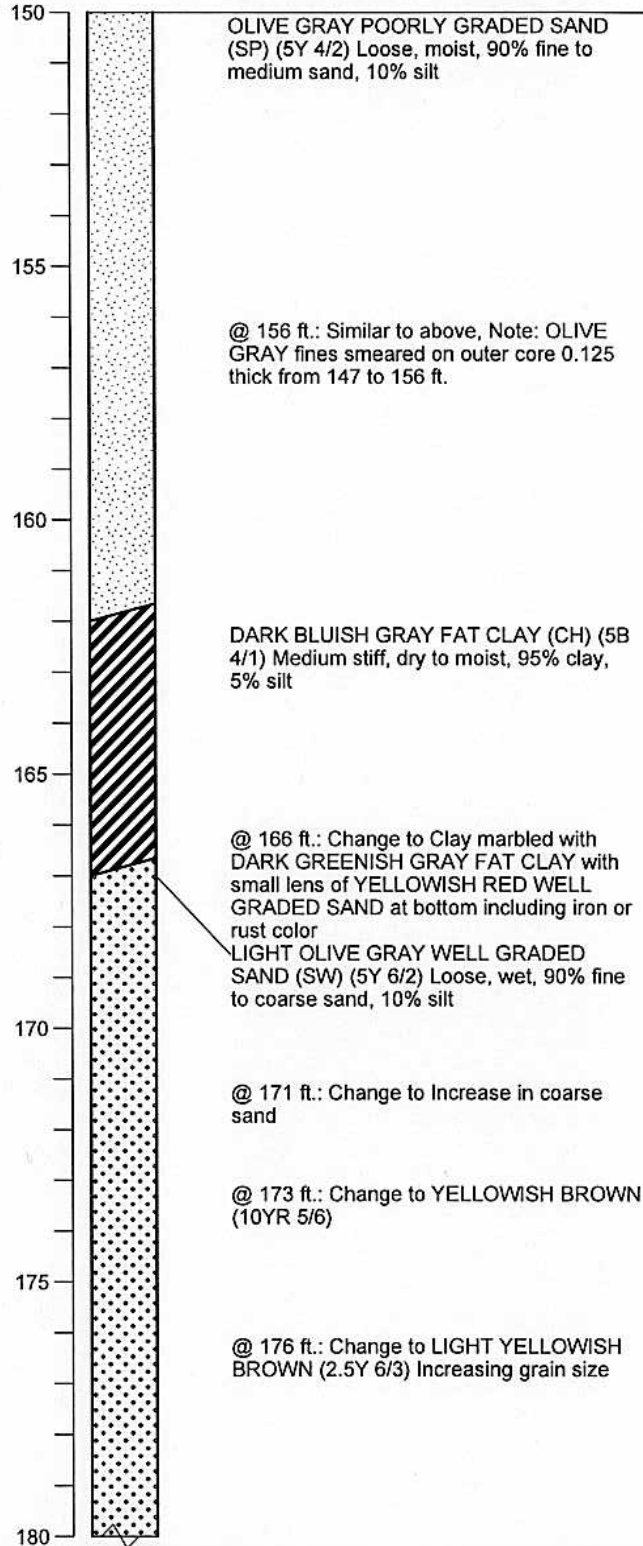
PLATE

A8

Completion Date 10/13/2002
 Drilling Method Sonic
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 Surface Elevation 127.7 ft. Hole Dia. 7 in.
 Northing 2142544.13 Easting 5751938.94

Depth (ft.)
 Sample

BENTONITE
 SLURRY: 25 to
 319 ft.



BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
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 OUCTP

PLATE

Fort Ord, California

A8

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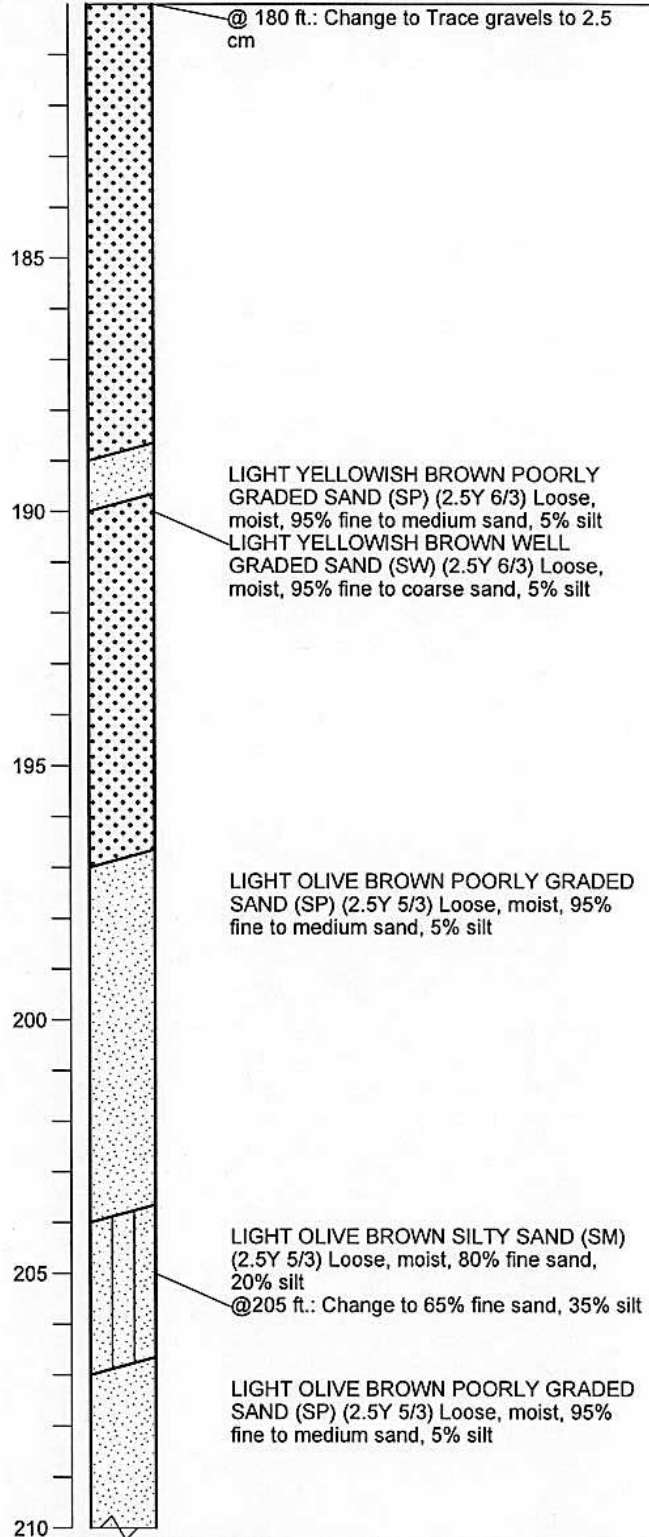
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 Surface Elevation 127.7 ft. Hole Dia. 7 in.
 Northing 2142544.13 Easting 5751938.94

Depth (ft.)
 Sample

BENTONITE
 SLURRY: 25 to
 319 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

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Fort Ord, California

A8

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Depth (ft.)
 Sample

BENTONITE
 SLURRY: 25 to
 319 ft.

215

@ 218 ft.: Change to 90% fine to medium
 sand, 10% silt

220

@ 223 ft.: Change to LIGHT OLIVE
 BROWN POORLY GRADED SAND WITH
 GRAVEL, Loose, moist to wet, 80% fine to
 medium sand, 15% gravel, 5% silt, Gravels
 subrounded green and white chert and
 granite up to 3 cm.

225

BROWNISH YELLOW WELL GRADED
 SAND (SW) (10YR 6/6) Loose, moist, 95%
 fine to coarse sand, 5% silt

@ 228 ft.: Change to Increase in coarse
 sand

230

235

@ 235 ft.: Change to YELLOWISH BROWN
 (10YR 5/6) Loose, moist, 95% fine to coarse
 sand, 5% silt

240

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
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 OUCTP

PLATE



MACTEC

Fort Ord, California

A8

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Depth (ft.)
 Sample

BENTONITE
 SLURRY: 25 to
 319 ft.

245
 250
 255
 260
 265
 270

@ 245 ft.: Similar to above

OLIVE YELLOW POORLY GRADED SAND
 (SP) (2.5Y 6/6) Loose, moist, 95% fine
 sand, 5% silt

@ 256 ft.: Change to LIGHT YELLOWISH
 BROWN (10YR 6/4)

OLIVE GRAY FAT CLAY (CH) (5Y 5/2)
 Medium stiff, moist to dry, 95% clay, 5% silt

@ 263 Change to OLIVE (5Y 5/3) Dry to
 moist

@ 265.5 ft.: Change to PALE OLIVE (5Y
 6/3) Medium stiff, dry, 70% clay, 30% silt

PALE OLIVE CLAYEY SAND (SC) (5Y 6/3)
 Loose, moist, 80% fine to coarse sand, 20%
 fat clay

BORING WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MP-BW-40
 OUCTP

PLATE

A8

DRAWN
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JOB NUMBER
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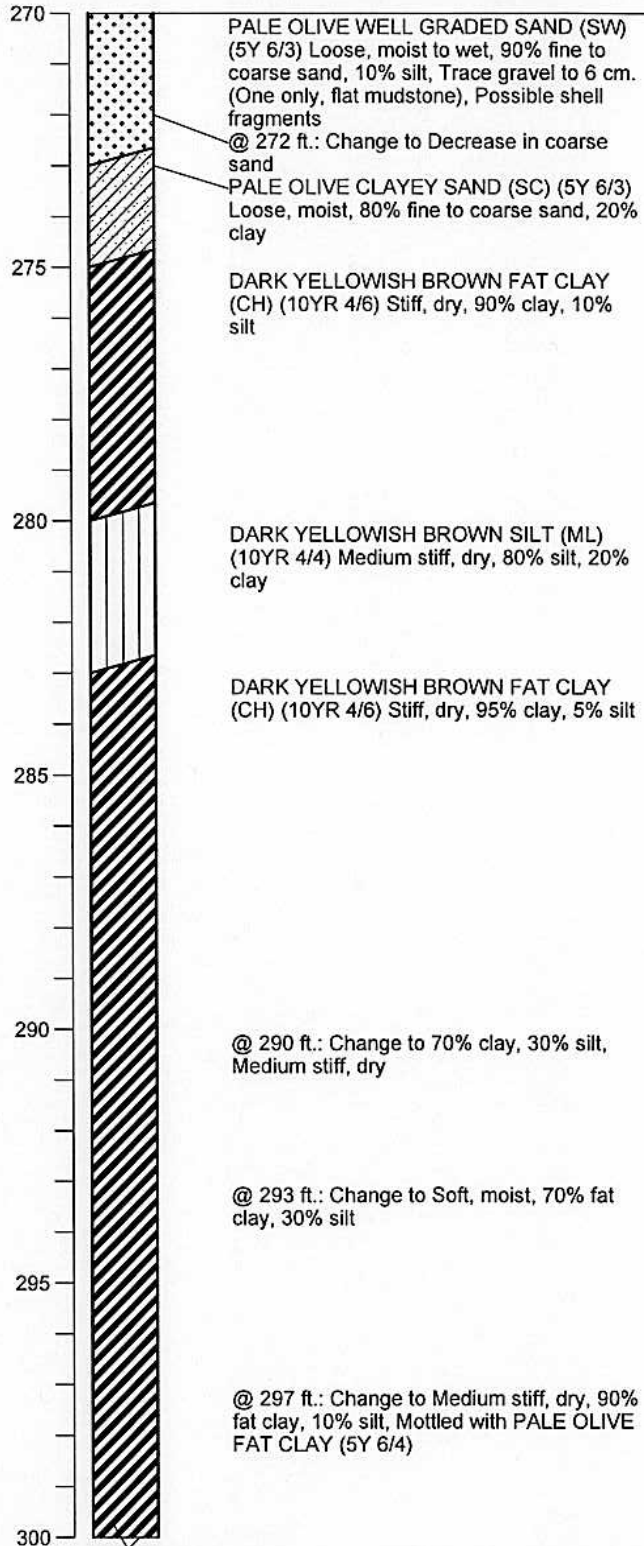
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 Northing 2142544.13 Easting 5751938.94

Depth (ft.)
 Sample

BENTONITE
 SLURRY: 25 to
 319 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

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 OUCTP

PLATE



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Fort Ord, California

A8

DRAWN
 MBP

JOB NUMBER
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Logged by D. Browne

Surface Elevation 127.7 ft.

Hole Dia. 7 in.

Northing 2142544.13

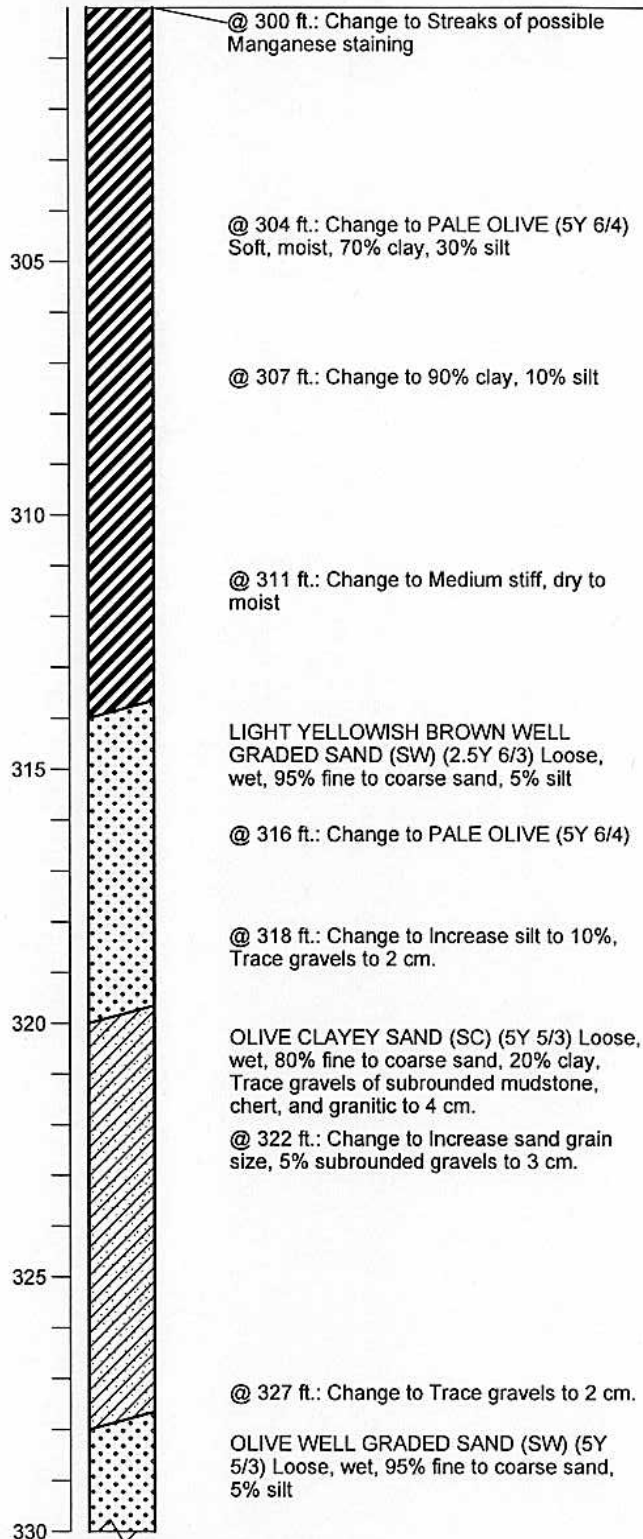
Easting 5751938.94

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
319 ft.

BENTONITE
PELLET SEAL:
319 to 329 ft.

LONESTAR # 2/12
SANDPACK: 329



BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MP-BW-40
OUCTP

Fort Ord, California

PLATE

A8

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED

DATE
11/04

REVISED DATE

Completion Date 10/13/2002

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 127.7 ft. Hole Dia. 7 in.

Northing 2142544.13 Easting 5751938.94

Depth (ft.)
Sample

to 341 ft.

LONESTAR # 2/12
SANDPACK: 329
to 341 ft.

SAMPLING PORT
MP-BW-40-333 at
332.94 ft.

EXTERNAL
SCREEN: 333 to
338 ft.

PURGE PORT:
338 ft.

BENTONITE
PELLET SEAL:
341 to 350 ft.

LONESTAR # 2/12
SANDPACK: 350
to 359 ft.

SAMPLING PORT
MP-BW-40-353 at
353 ft.

EXTERNAL
SCREEN: 353 to
358 ft.

PURGE PORT:
358 ft.

BENTONITE
PELLET SEAL:
359 to 372 ft.

@ 330 ft.: Change to LIGHT OLIVE
BROWN (2.5Y 5/3) Loose, wet, Subrounded
gravels of chert, mudstone, and granitic to 7
cm.

@ 332 ft.: Change to Decrease in coarse
sand, 5% gravels to 3 cm.

@ 336 ft.: Change to Increase in coarse
sand, Trace gravels to 6 cm.

@ 340 ft.: Change to 10% clay, 5%
subrounded gravels of chert, mudstone, and
granitic to 9 cm. (cobbles)

@ 344 ft.: Change to LIGHT OLIVE
BROWN (2.5Y 5/3) Loose, wet, 85% fine to
coarse sand, 10% lean clay, 5% gravels

LIGHT BROWNISH GRAY WELL GRADED
GRAVEL (GW) (2.5Y 6/2) Loose, wet, 50%
gravel, 30% clay, 20% fine to coarse sand,
Gravels to 4 cm. mainly flattened mudstone,
subrounded on edges.

LIGHT YELLOWISH BROWN WELL
GRADED SAND WITH GRAVEL (SW)
(2.5Y 6/3) Loose, wet, 65% fine to coarse
sand, 30% fine gravel, 5% silt

@ 354 ft.: Change to LIGHT OLIVE
BROWN (2.5Y 6/3) Loose, wet, Gravels
increase in size to 4 cm.

LIGHT OLIVE BROWN WELL GRADED
GRAVEL WITH SAND (GW) (2.5Y 6/3)
Loose, wet, 55% gravel to 3 cm., 35% fine
to coarse sand, 10% clay

@ 358 ft.: Change to LIGHT YELLOWISH
BROWN, 50% gravels mainly chert,
mudstone, and some granitics subrounded
to 6 cm., 40% sand, 10% clay

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Surface Elevation 127.7 ft.

Hole Dia. 7 in.

Northing 2142544.13

Easting 5751938.94

Depth (ft.)
Sample

BENTONITE
PELLET SEAL:
359 to 372 ft.

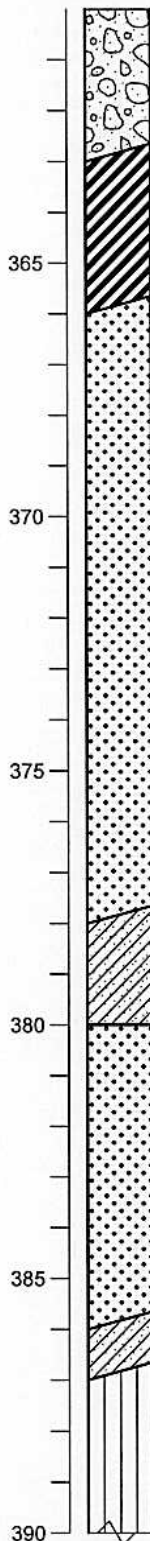
LONESTAR # 2/12
SANDPACK: 372
to 383 ft.

SAMPLING PORT
MP-BW-40-375 at
374.77 ft.

EXTERNAL
SCREEN: 375 to
380 ft.

PURGE PORT:
380 ft.

BENTONITE
PELLET SEAL:
383 to 395 ft.



@ 362 ft.: Change to OLIVE GRAY, Gravels to 4 cm., Gradational contact to 363 ft.
PALE OLIVE FAT CLAY (CH) (5Y 6/3)
Medium stiff, moist to dry, 85% fat clay, 5% fine sand, 5% silt, 5% gravel of subrounded granitics and chert

LIGHT YELLOWISH BROWN WELL GRADED SAND (SW) (2.5Y 6/3) Loose, wet, 80% fine to coarse sand, 10% clay, 10% gravels to 5 cm.

@ 372 ft.: Change to 90% fine to coarse grained sand, 10% gravel, Trace clay

@ 374 ft.: Change to Increase gravels to 5%

LIGHT YELLOWISH BROWN CLAYEY SAND (SC) (2.5Y 6/3) 85% fine to coarse sand, 15% clay

LIGHT YELLOWISH BROWN WELL GRADED SAND (SW) (2.5Y 6/3) 85% fine to coarse sand, 10% subrounded gravel to 3 cm., 5% silt

@ 384 ft.: Change to Gravels up to 5cm.

OLIVE CLAYEY SAND (SC) (5Y 5/3) Loose, wet, 50% fine to coarse sand, 40% clay, 10% subrounded gravel up to 3 cm.
OLIVE SILT (ML) (5Y 5/3) Medium stiff, dry, 75% silt, 25% fat clay

BORING WELL OUCTP OUCTPV6 GPJ FTO OUCTP GDT 11/24/04



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Log of Boring MP-BW-40
OUCTP

PLATE

Fort Ord, California

A8

DRAWN
MBP

JOB NUMBER
55596 001701

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MDT/cm

DATE
11/04

REVISED DATE

Completion Date 10/13/2002

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 127.7 ft.

Hole Dia. 7 in.

Northing 2142544.13

Easting 5751938.94

Depth (ft.)
Sample

BENTONITE
PELLET SEAL:
383 to 395 ft.

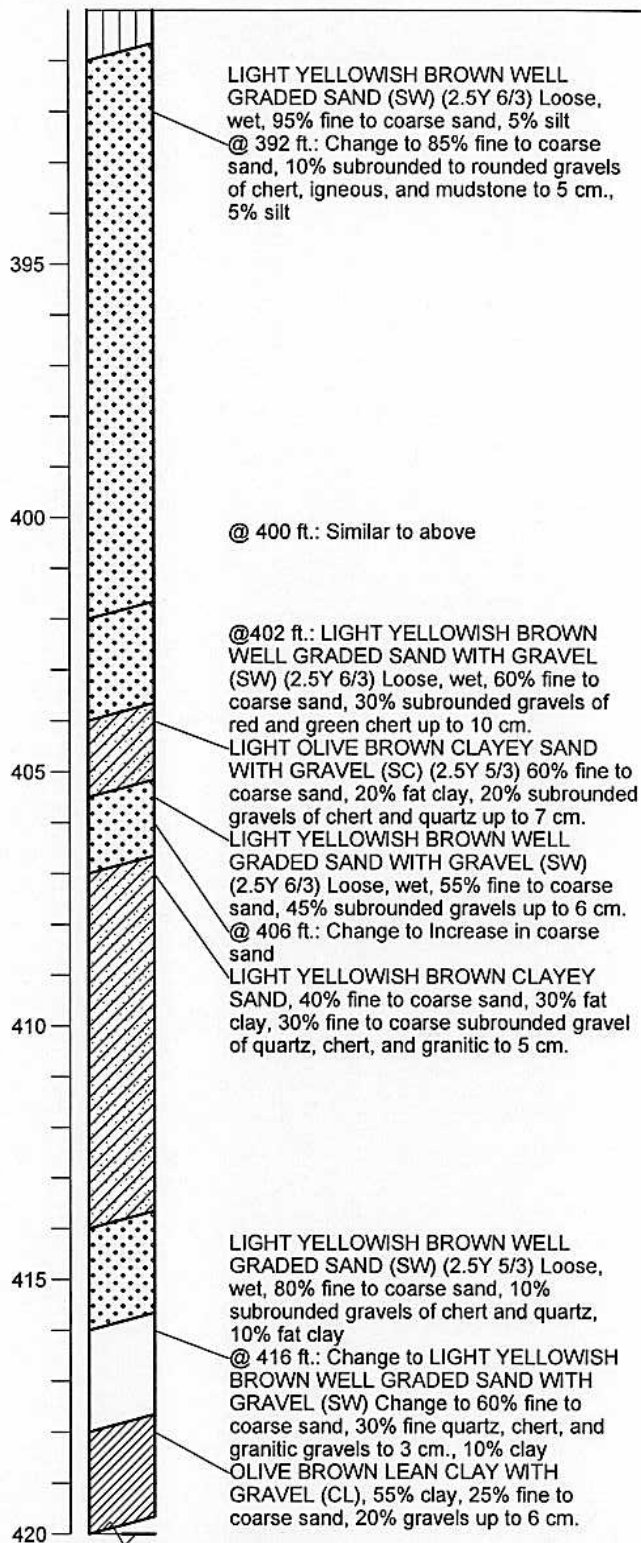
LONESTAR # 2/12
SANDPACK: 395
to 418.5 ft.

SAMPLING PORT
MP-BW-40-400 at
399.84 ft.

EXTERNAL
SCREEN: 398 to
403 ft.

PURGE PORT:
403 ft.

BOTTOM WELL
CAP: 418.5 ft.
BENTONITE
CHIPS: 418.5 to



BORING_WELL_OUCTP_OUCTPV&GPJ_FTO_OUCTP.GDT 11/24/04

Well Construction Details and
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OUCTP

Fort Ord, California

PLATE

A8



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Drilling Method Sonic

Logged by D. Browne

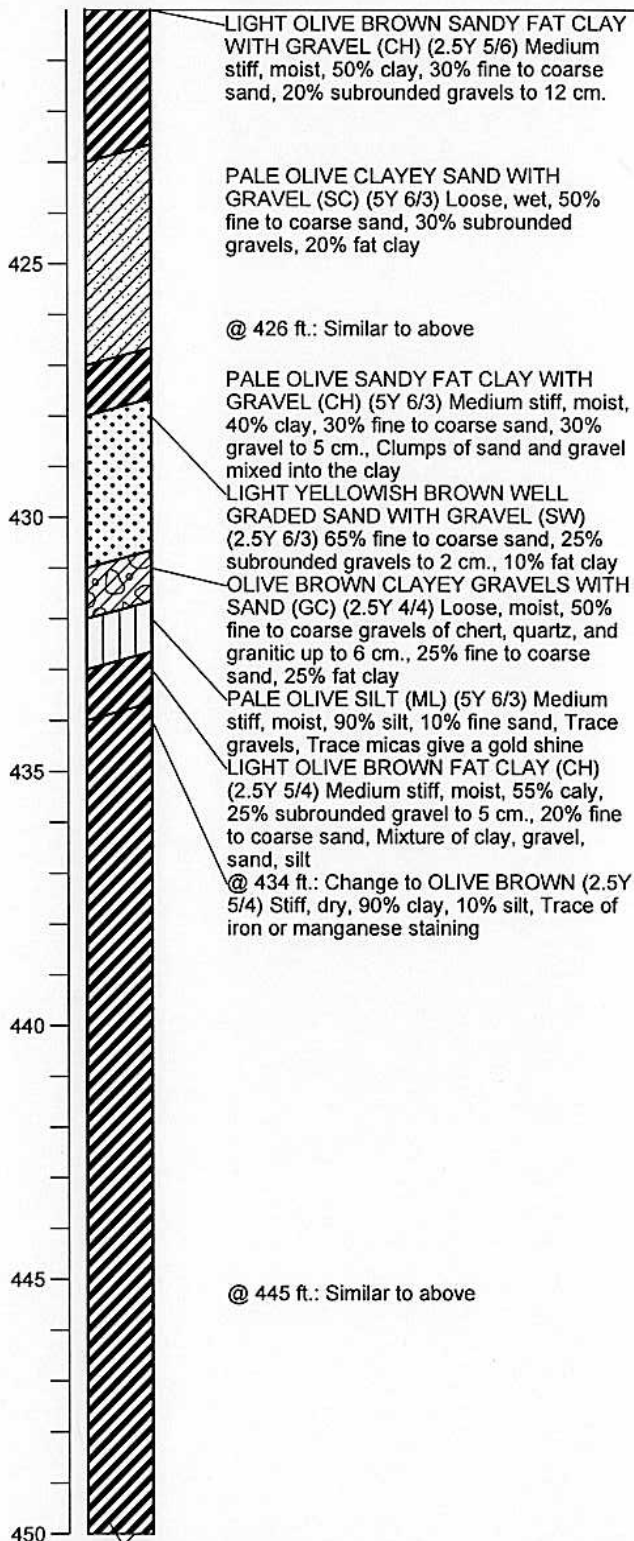
Surface Elevation 127.7 ft. Hole Dia. 7 in.

Northing 2142544.13 Easting 5751938.94

Depth (ft.)
Sample

496 ft.

BENTONITE
CHIPS: 418.5 to
496 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
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OUCTP

Fort Ord, California

PLATE

A8

DRAWN
MBP

JOB NUMBER
55596 001701

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REVISED DATE

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Logged by D. Browne

Surface Elevation 127.7 ft.

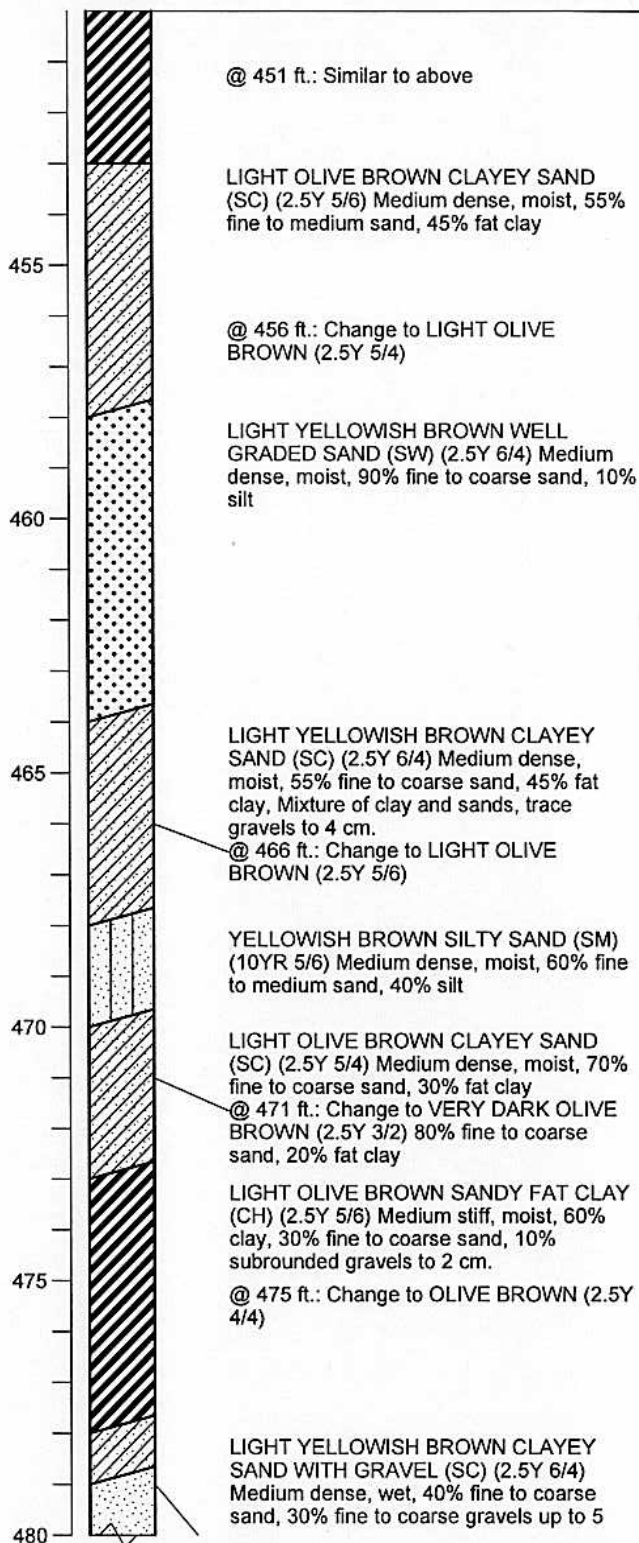
Hole Dia. 7 in.

Northing 2142544.13

Easting 5751938.94

Depth (ft.)
Sample

BENTONITE
CHIPS: 418.5 to
496 ft.



BORING WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
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OUCTP

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DATE
11/04

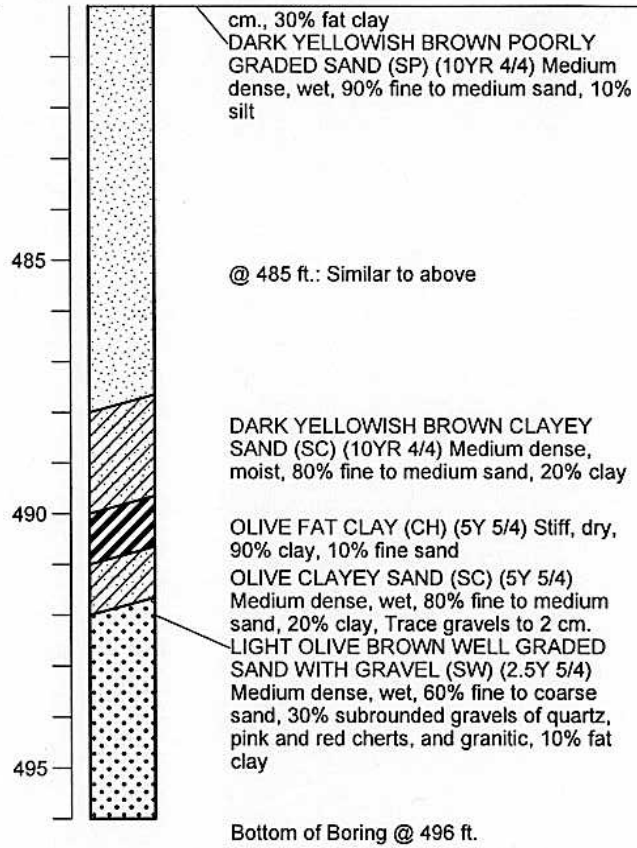
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A8

Completion Date 10/13/2002
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 127.7 ft. Hole Dia. 7 in.
 Northing 2142544.13 Easting 5751938.94

Depth (ft.)
 Sample

BENTONITE
 CHIPS: 418.5 to
 496 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MP-BW-40
 OUCTP

Fort Ord, California

PLATE

A8

DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED

MDT / cm

DATE
 11/04

REVISED DATE

Completion Date 3/11/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 157.66 ft. Hole Dia. 7 in.

Northing 2137147.84 Easting 5749841.52

Top of PVC Casing

Elev. 157.05 ft.

CHRISTY
BOX

GROUND SURFACE

Top of casing at
0.5 ft. bgs

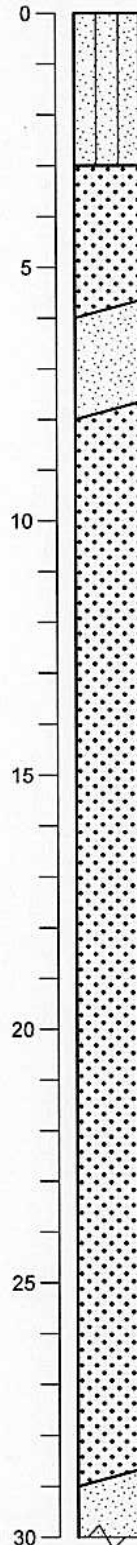
7 in. DIAMETER
BOREHOLE: 0 to
407 ft.

BENTONITE-
CEMENT SEAL: 2
to 25 ft.

MP-38 (38mm.)
PVC SCHEDULE
40 WESTBAY
CASING: 0 to 404
ft.

BENTONITE
SLURRY: 25 to
188 ft.

Depth (ft.)
Sample



VERY DARK GRAYISH BROWN SILTY
SAND (SM) (2.5Y 3/2) Loose, moist, 85%
fine to coarse sand, 15% silt

DARK GRAYISH BROWN WELL GRADED
SAND (SW) (2.5Y 4/2) Loose, moist, 90%
fine to coarse sand, 10% silt

@ 5 ft.: Change to BROWN (10YR 4/3)

YELLOWISH BROWN POORLY GRADED
SAND (SP) (10YR 5/6) Loose, dry, 95% fine
to medium sand, 5% silt

LIGHT YELLOWISH BROWN WELL
GRADED SAND (SW) (10YR 6/4) Loose,
dry, 95% fine to coarse sand, 5% silt

@ 12 ft.: Similar to above

@ 16 ft.: Similar to above

@ 20 ft.: Similar to above

@ 26 ft.: Similar to above

LIGHT YELLOWISH BROWN POORLY
GRADED SAND (SP) (2.5Y 6/4) Loose, dry,

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
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OUCTP

Fort Ord, California

PLATE

A9

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JOB NUMBER
55596 001701

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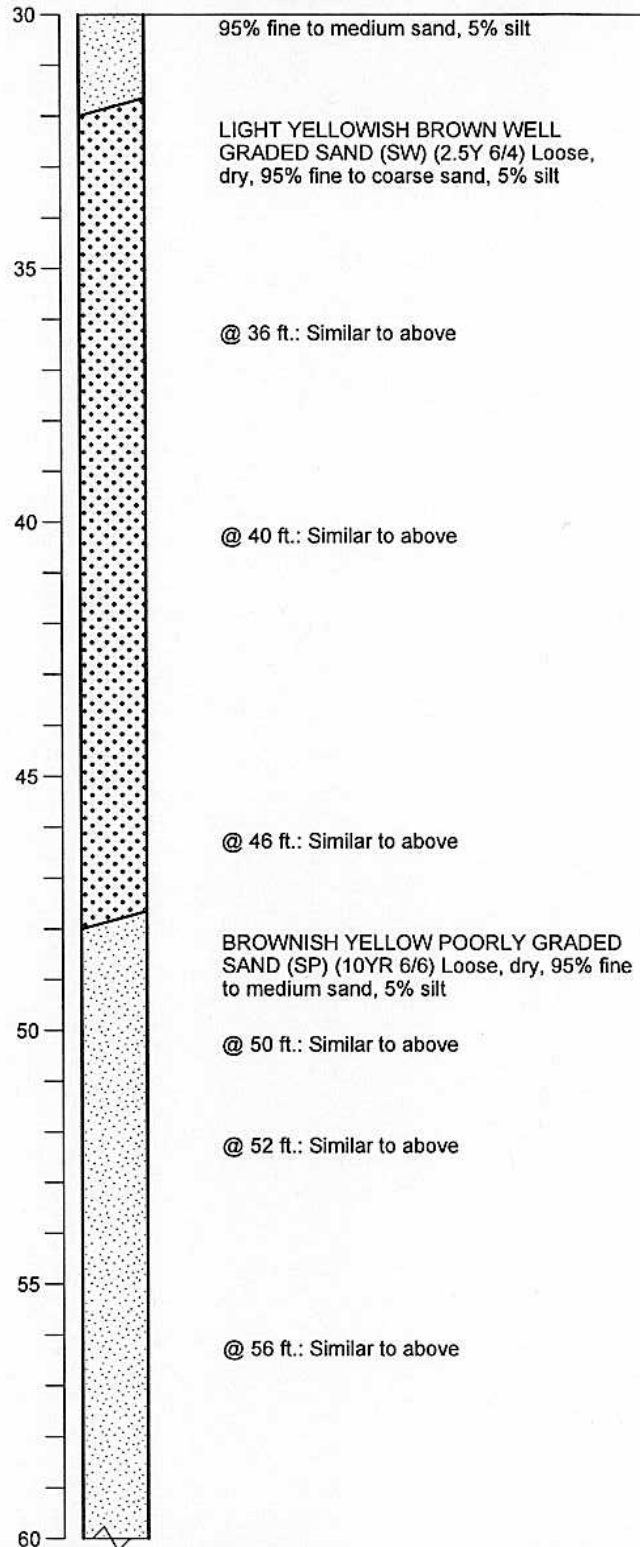
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11/04

REVISED DATE

Completion Date 3/11/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 157.66 ft. Hole Dia. 7 in.
 Northing 2137147.84 Easting 5749841.52

Depth (ft.)
 Sample

BENTONITE
 SLURRY: 25 to
 188 ft.



Well Construction Details and
 Log of Boring MP-BW-41
 OUCTP

PLATE



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Fort Ord, California

A9

DRAWN
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JOB NUMBER
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REVISED DATE

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Drilling Method Sonic

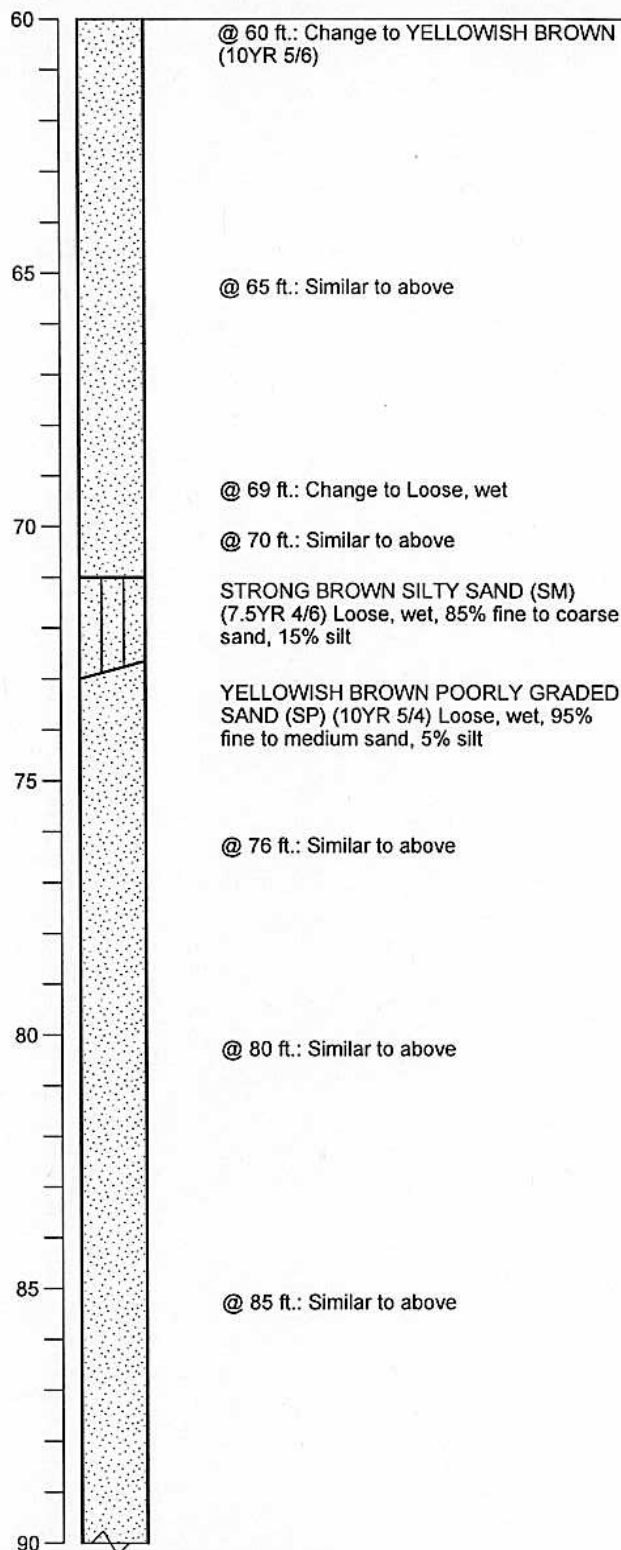
Logged by D. Browne

Surface Elevation 157.66 ft. Hole Dia. 7 in.

Northing 2137147.84 Easting 5749841.52

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
188 ft.



BORING WELL_OUCTP OUCTPW6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
Log of Boring MP-BW-41
OUCTP

PLATE



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JOB NUMBER
55596 001701

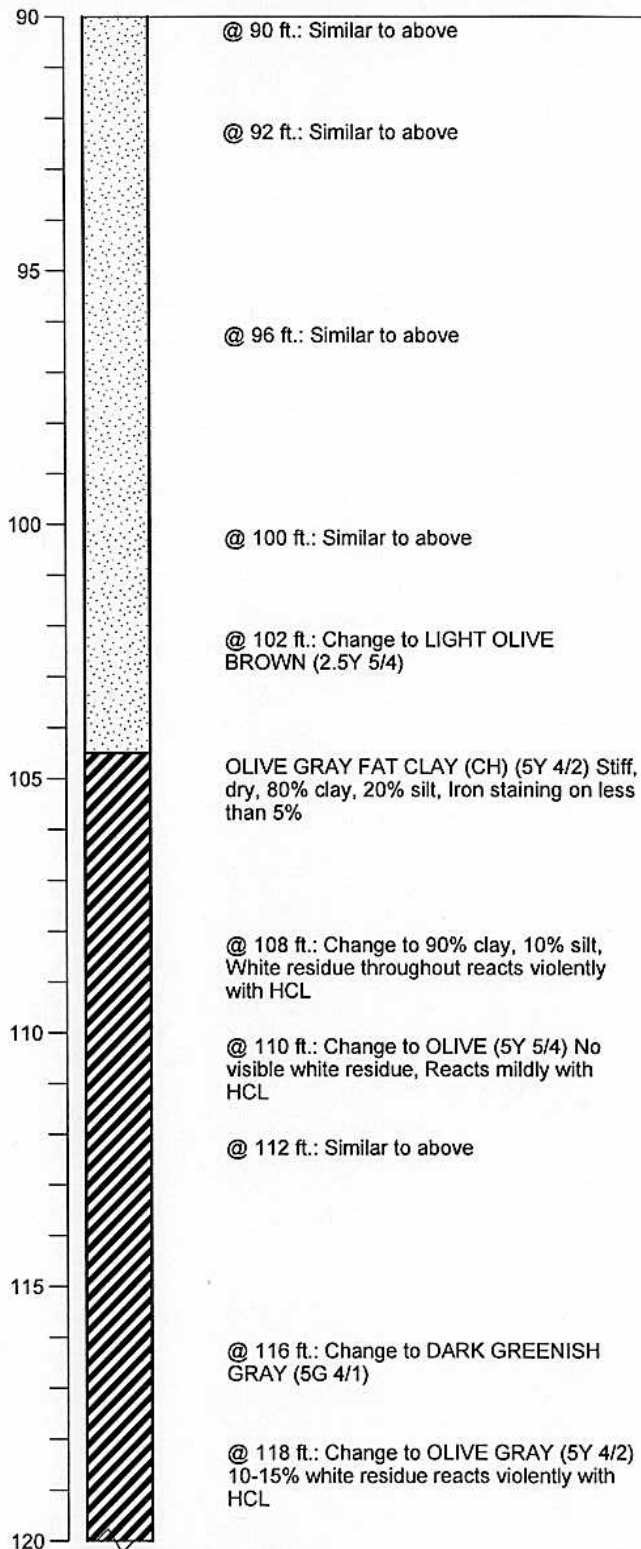
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A9

Completion Date 3/11/2003Drilling Method SonicLogged by D. BrowneSurface Elevation 157.66 ft. Hole Dia. 7 in.Northing 2137147.84 Easting 5749841.52Depth (ft.)
SampleBENTONITE
SLURRY: 25 to
188 ft.

BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
Log of Boring MP-BW-41
OUCTP

PLATE



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Fort Ord, California

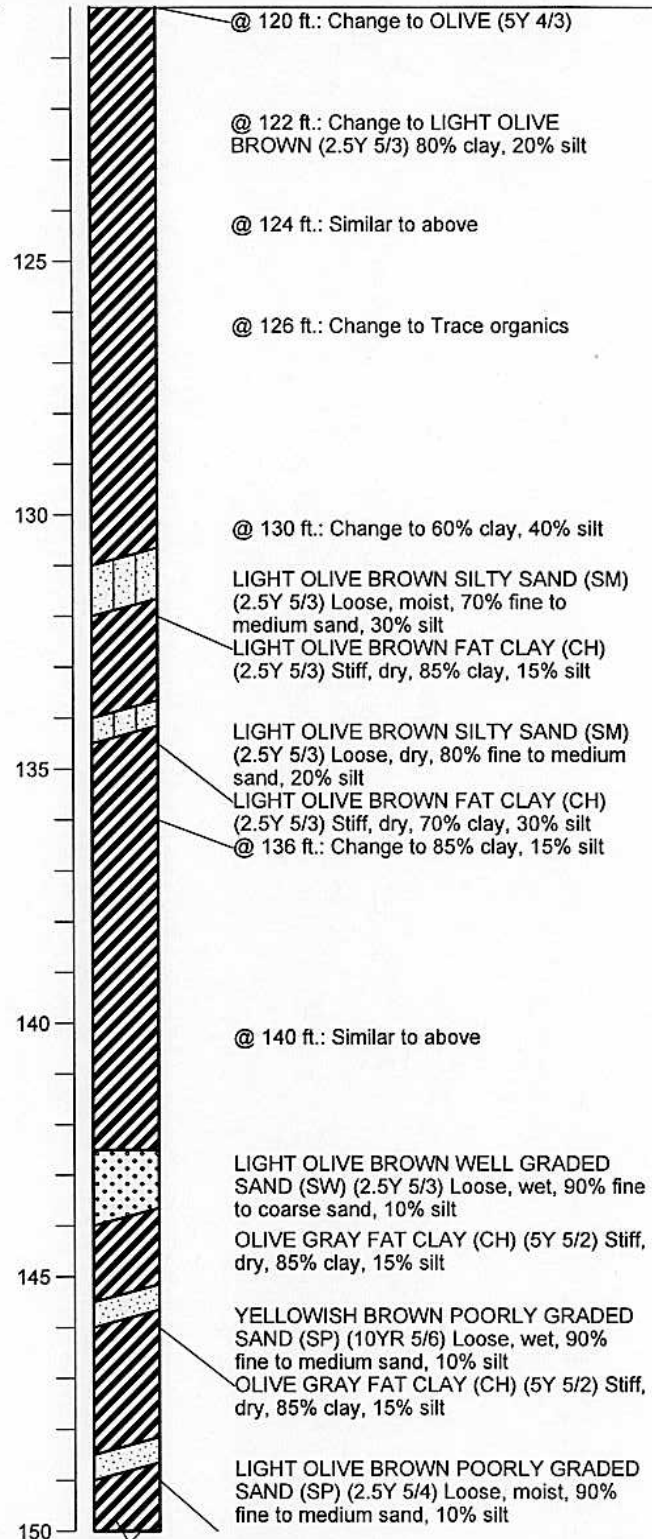
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DATE
11/04

REVISED DATE

A9

Completion Date 3/11/2003Drilling Method SonicLogged by D. BrowneSurface Elevation 157.66 ft. Hole Dia. 7 in.Northing 2137147.84 Easting 5749841.52Depth (ft.)
SampleBENTONITE
SLURRY: 25 to
188 ft.

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
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OUCTP

PLATE

A9

Fort Ord, California

**MACTEC**DRAWN
MBPJOB NUMBER
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MDT / cm

DATE
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REVISED DATE

Completion Date 3/11/2003

Drilling Method Sonic

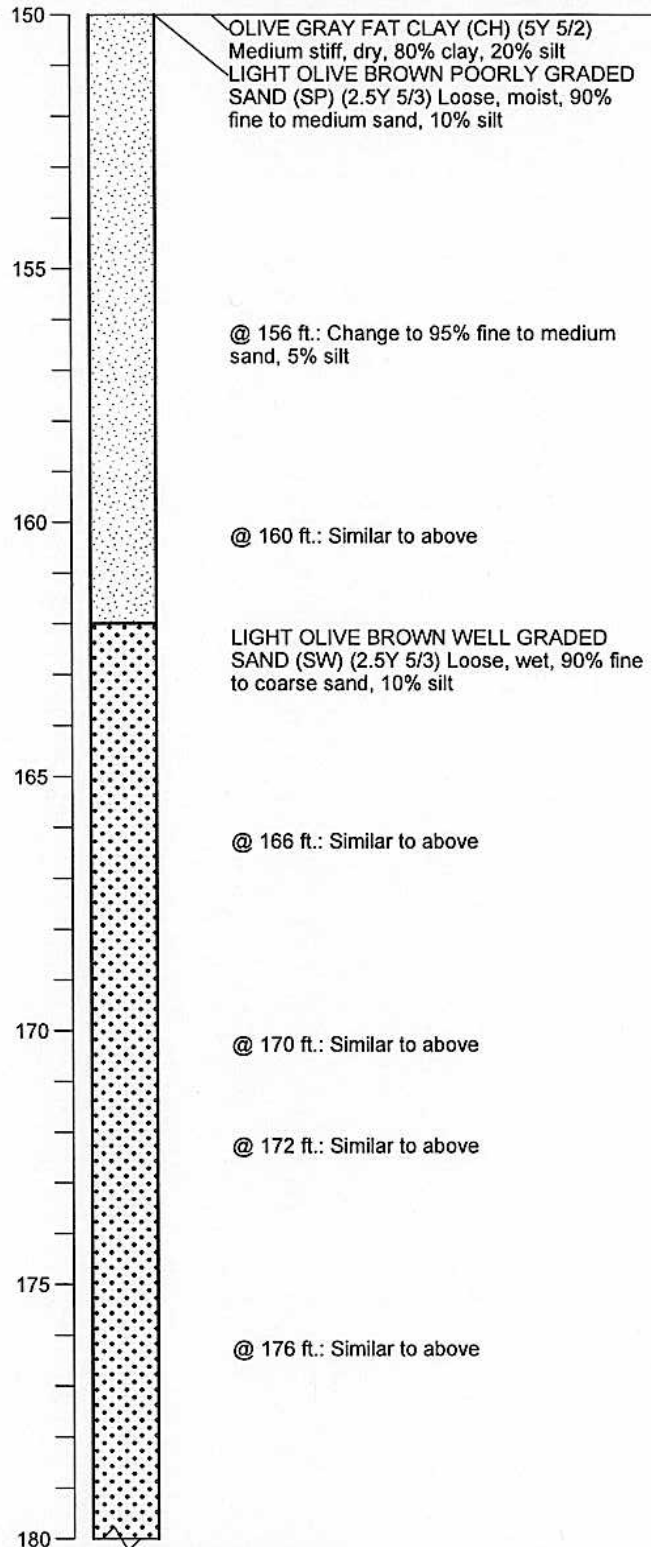
Logged by D. Browne

Surface Elevation 157.66 ft. Hole Dia. 7 in.

Northing 2137147.84 Easting 5749841.52

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
188 ft.



BORING WELL OUCTP OUCTPV6 GPJ FTO OUCTP.GDT 1124J04



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Well Construction Details and
Log of Boring MP-BW-41
OUCTP

PLATE

A9

Fort Ord, California

DRAWN
MBP

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MDT / CM

DATE
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Completion Date 3/11/2003

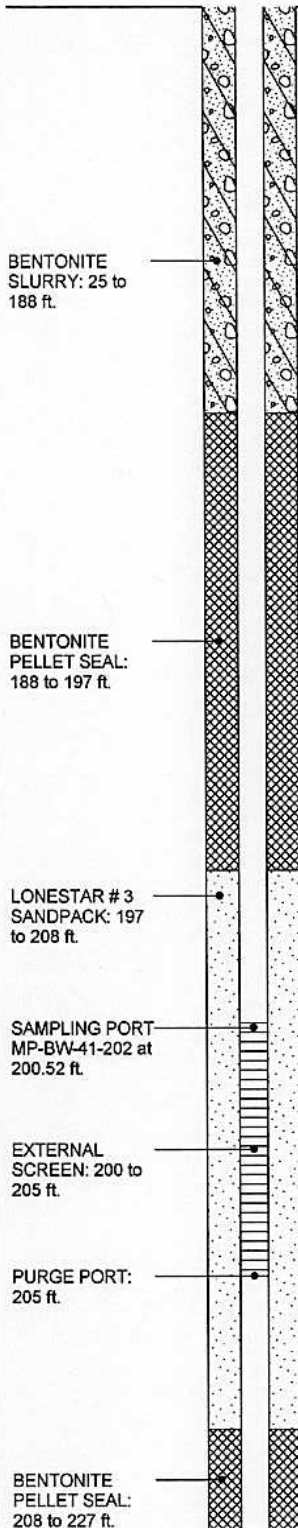
Drilling Method Sonic

Logged by D. Browne

Surface Elevation 157.66 ft. Hole Dia. 7 in.

Northing 2137147.84 Easting 5749841.52

Depth (ft.)
Sample



@ 180 ft.: Change to Increase in coarse sand (#3)

@ 185 ft.: Similar to above

@ 190 ft.: Similar to above

@ 191 ft.: Change to Decrease in coarse sand

@ 192 ft.: Similar to above

OLIVE GRAY SILTY SAND (SM) (5Y 5/2) Medium dense, moist, 60% fine to coarse sand, 40% silt

@ 194 ft.: Change to LIGHT GRAY (2.5Y 7/1) 70% fine to coarse sand, 30% silt, Difficulty drilling, material heated by friction
LIGHT OLIVE BROWN WELL GRADED SAND (SW) (2.5Y 5/4) Loose, wet, 90% fine to coarse sand, 10% silt

@ 196 ft.: Change to Increase in coarse sand (#3)

@ 200 ft.: Change to Decrease in coarse sand

@ 205 ft.: Similar to above

LIGHT OLIVE BROWN POORLY GRADED SAND (SP) (2.5Y 5/3) Loose, wet, 90% fine to medium sand, 10% silt

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
Log of Boring MP-BW-41
OUCTP

PLATE



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Fort Ord, California

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JOB NUMBER
55596 001701

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DATE
11/04

REVISED DATE

A9

Completion Date 3/11/2003

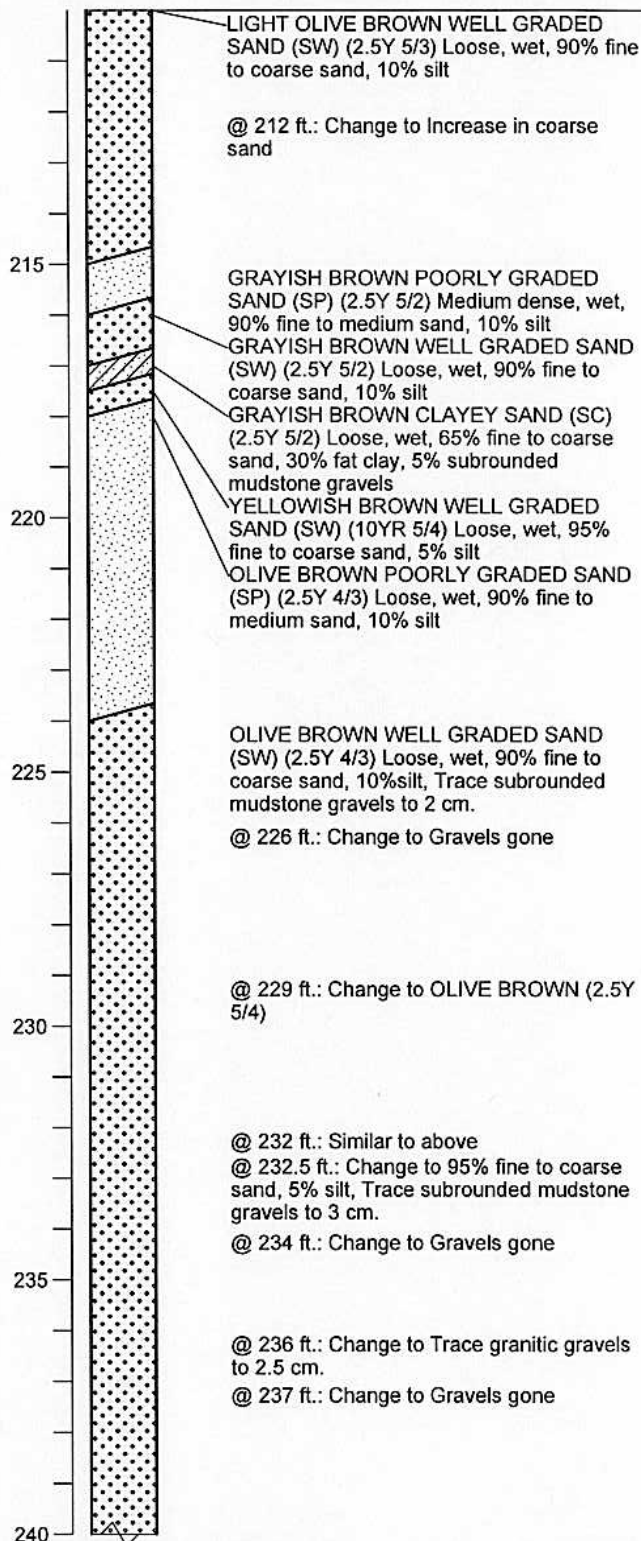
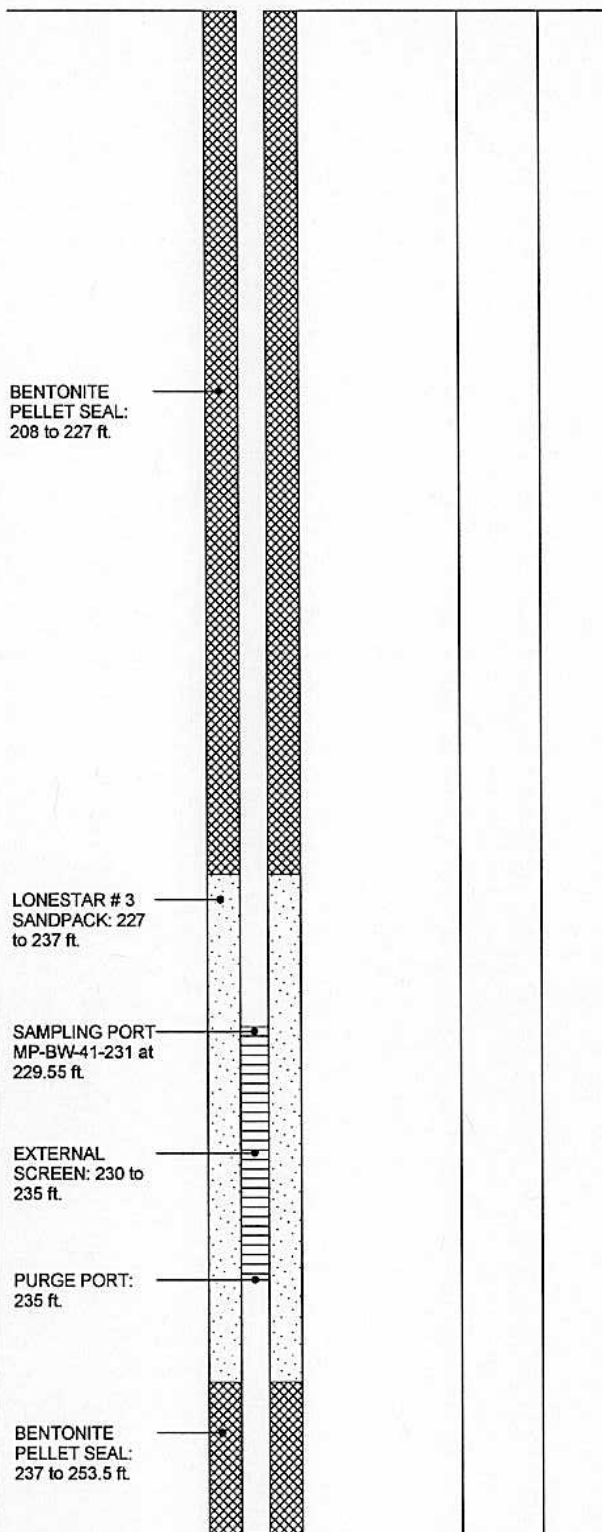
Drilling Method Sonic

Logged by D. Browne

Surface Elevation 157.66 ft. Hole Dia. 7 in.

Northing 2137147.84 Easting 5749841.52

Depth (ft.)
Sample



BORING WELL OUCTP OUCTPV6 GPJ FTO OUCTP-GDT 1124/04

**Well Construction Details and
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OUCTP

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Fort Ord, California

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DATE
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REVISED DATE

A9

Completion Date 3/11/2003Drilling Method SonicLogged by D. BrowneSurface Elevation 157.66 ft. Hole Dia. 7 in.Northing 2137147.84 Easting 5749841.52Depth (ft.)
SampleBENTONITE
PELLET SEAL:
237 to 253.5 ft.LONESTAR # 3
SANDPACK: 253.5
to 263 ft.
SAMPLING PORT
MP-BW-41-256 at
254.47 ft.EXTERNAL
SCREEN: 255 to
260 ft.PURGE PORT:
260 ft.BENTONITE
PELLET SEAL:
263 to 282 ft.

@ 240 ft.: Similar to above

OLIVE GRAY SANDY FAT CLAY (CH) (5Y 5/2) Soft, moist, 55% clay, 45% fine to coarse sand, Trace gravels of chert
LIGHT OLIVE BROWN WELL GRADED SAND (SW) (2.5Y 5/4) Loose, wet, 95% fine to coarse sand, 5% silt, Trace gravels to 1.5 cm.

@ 248 ft.: Change to increase in coarse sand

@ 249.5 ft.: Change to BROWN (7.5YR 4/4) Trace subrounded chert gravels to 3 cm.

@ 251 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/3) 90% fine to coarse sand, 10% silt, Trace gravels

@ 252 ft.: Change to Gravels gone

LIGHT OLIVE BROWN SANDY FAT CLAY (CH) (2.5Y 5/3) Medium stiff, moist, 50% clay, 30% silt, 20% fine sand
LIGHT OLIVE BROWN WELL GRADED SAND (SW) (2.5Y 5/3) Loose, wet, 90% fine to coarse sand, 10% silt

@ 258 ft.: Change to increase in coarse sand (#3), Trace gravels of chert and mudstone to 2 cm.

@ 260 ft.: Change to Gravels gone

LIGHT BROWN SANDY FAT CLAY (CH) (2.5Y 5/3) 60% Clay, 40% fine to coarse sand, Trace subrounded gravels of chert and mudstone to 2 cm. (pebbly mudstone)
LIGHT OLIVE BROWN WELL GRADED SAND (SW) (2.5Y 5/3) Loose, wet, 90% fine to coarse sand, 10% silt

LIGHT OLIVE BROWN SANDY FAT CLAY WITH GRAVEL (CH) (2.5Y 5/4) Soft, moist, 50% clay, 35% fine to coarse sand, 15%

BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
Log of Boring MP-BW-41

OUCTP

PLATE

A9

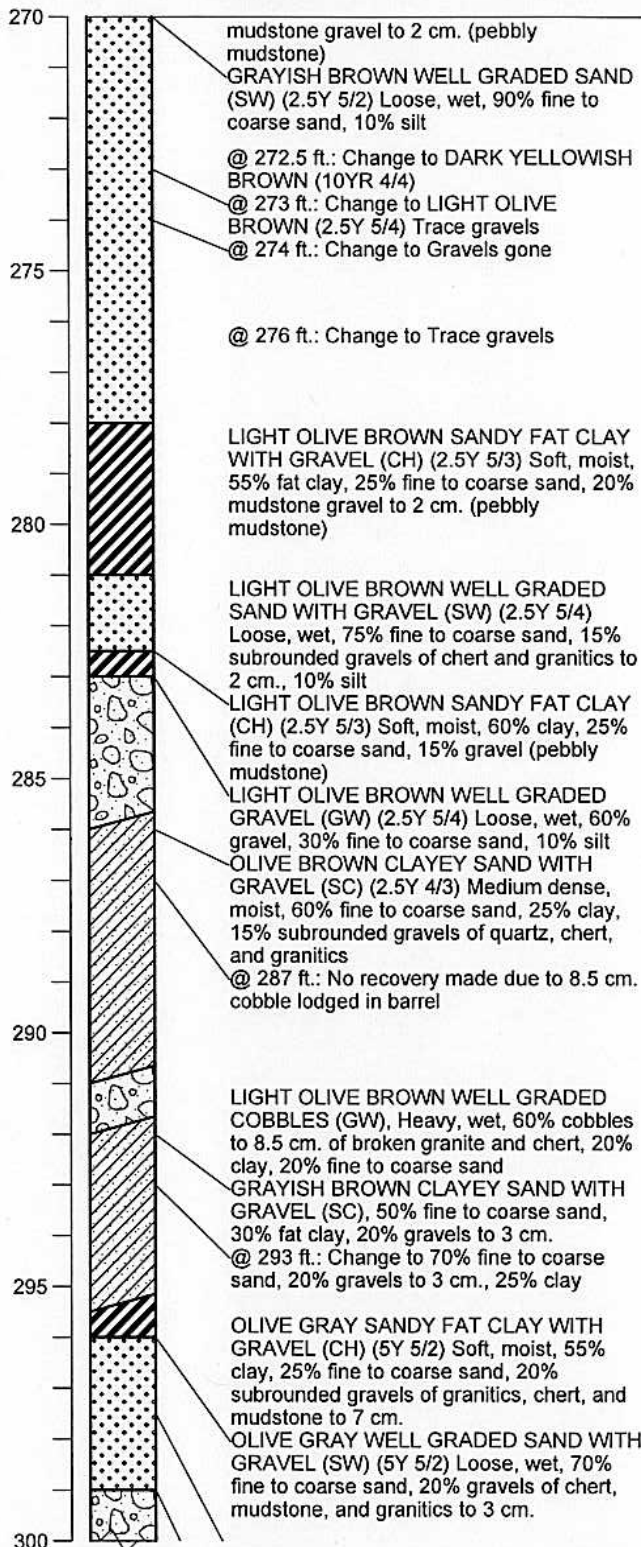
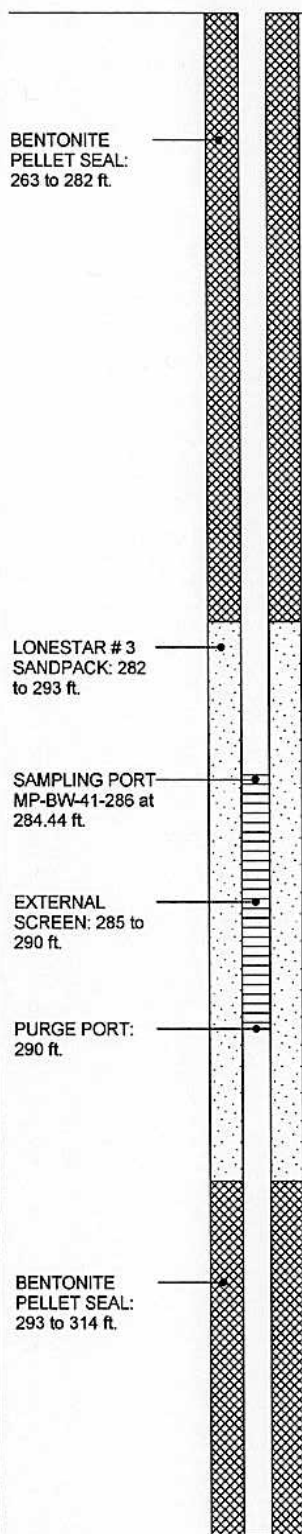
Fort Ord, California

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Completion Date 3/11/2003Drilling Method SonicLogged by D. BrowneSurface Elevation 157.66 ft. Hole Dia. 7 in.Northing 2137147.84 Easting 5749841.52Depth (ft.)
Sample

BORING WELL OUCTP OUCTPV6 GPJ FTO OUCTP GDT 11/24/04

Well Construction Details and
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OUCTP

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A9

Completion Date 3/11/2003

Drilling Method Sonic

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Surface Elevation 157.66 ft. Hole Dia. 7 in.

Northing 2137147.84 Easting 5749841.52

Depth (ft.)
Sample

BENTONITE
PELLET SEAL:
293 to 314 ft.

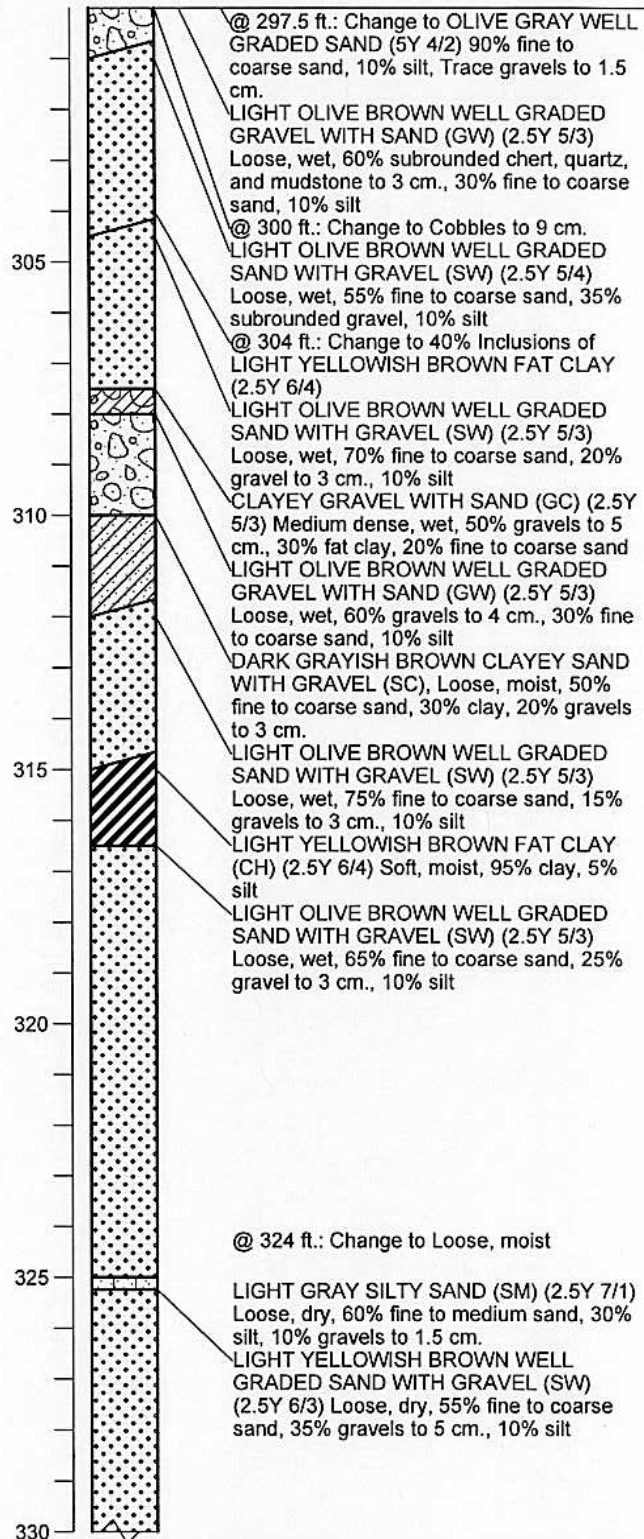
LONESTAR # 3
SANDPACK: 314
to 324 ft.

SAMPLING PORT
MP-BW-41-318 at
316.47 ft.

EXTERNAL
SCREEN: 317 to
322 ft.

PURGE PORT:
322 ft.

BENTONITE
PELLET SEAL:
324 to 347 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
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OUCTP

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Fort Ord, California

A9

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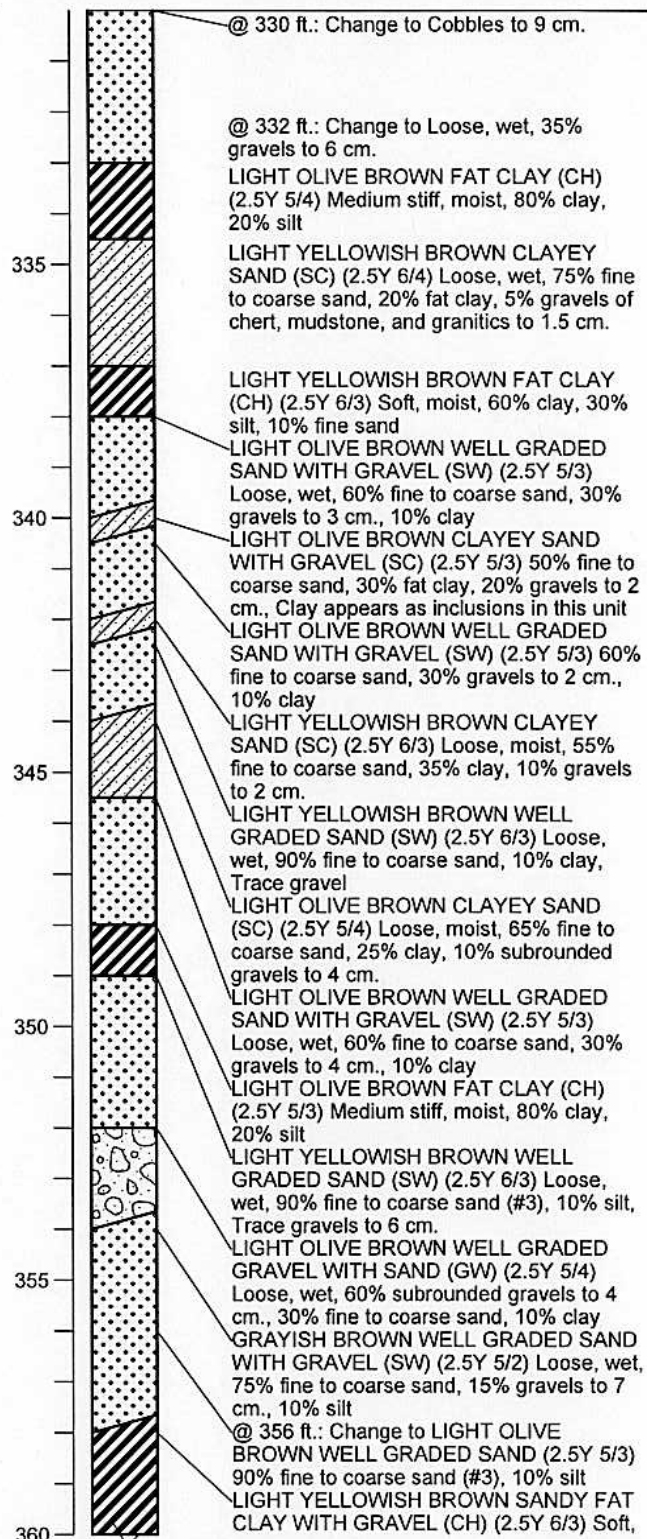
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Completion Date 3/11/2003Drilling Method SonicLogged by D. BrowneSurface Elevation 157.66 ft.Hole Dia. 7 in.Northing 2137147.84Easting 5749841.52Depth (ft.)
SampleBENTONITE
PELLET SEAL:
324 to 347 ft.LONESTAR # 3
SANDPACK: 347
to 360 ft.SAMPLING PORT
MP-BW-41-353 at
351.45 ft.EXTERNAL
SCREEN: 352 to
357 ft.PURGE PORT:
357 ft.Well Construction Details and
Log of Boring MP-BW-41
OUCTP

PLATE

A9

Fort Ord, California



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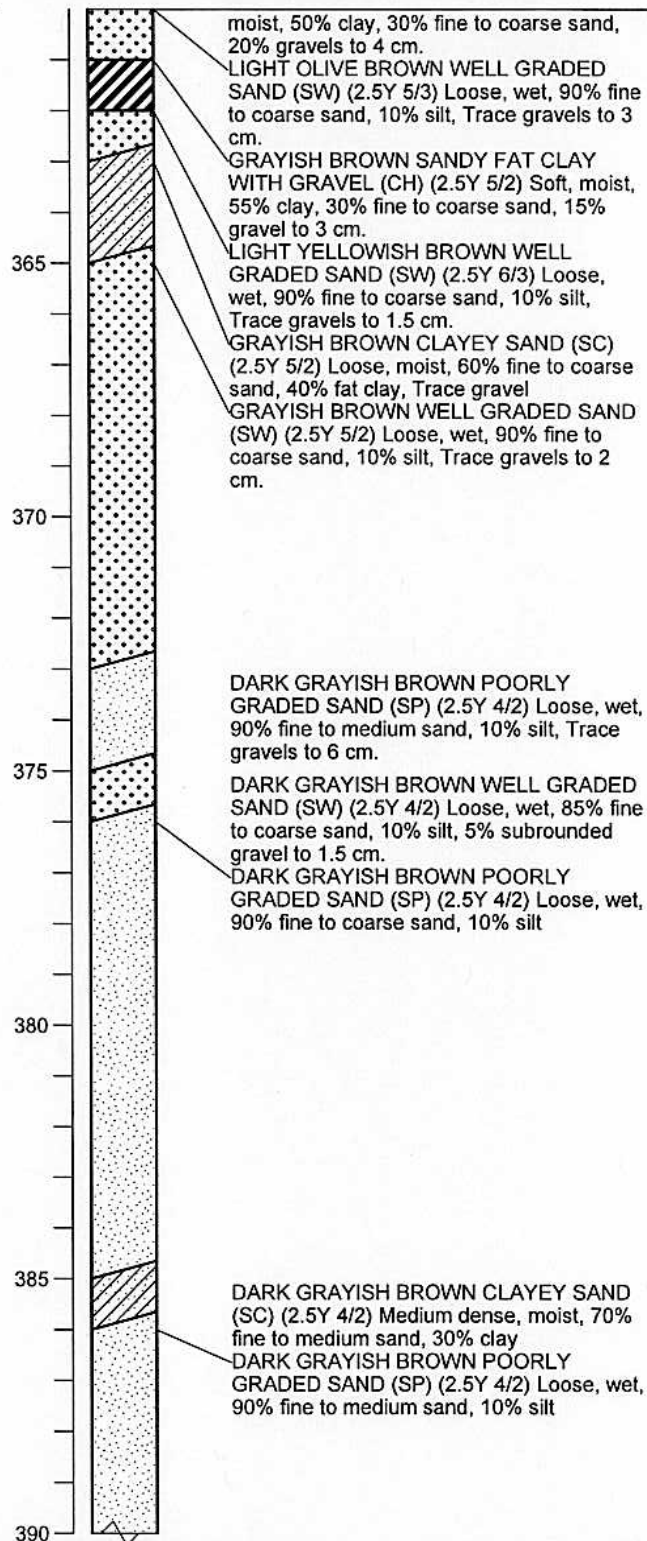
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Completion Date 3/11/2003Drilling Method SonicLogged by D. BrowneSurface Elevation 157.66 ft. Hole Dia. 7 in.Northing 2137147.84 Easting 5749841.52Depth (ft.)
SampleBENTONITE
PELLET SEAL:
360 to 392 ft.Well Construction Details and
Log of Boring MP-BW-41
OUCTP

PLATE



MACTEC

Fort Ord, California

DRAWN
MBPJOB NUMBER
55596 001701

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DATE
11/04

REVISED DATE

A9

Completion Date 3/11/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 157.66 ft. Hole Dia. 7 in.

Northing 2137147.84 Easting 5749841.52

Depth (ft.)
Sample

BENTONITE
PELLET SEAL:
360 to 392 ft.

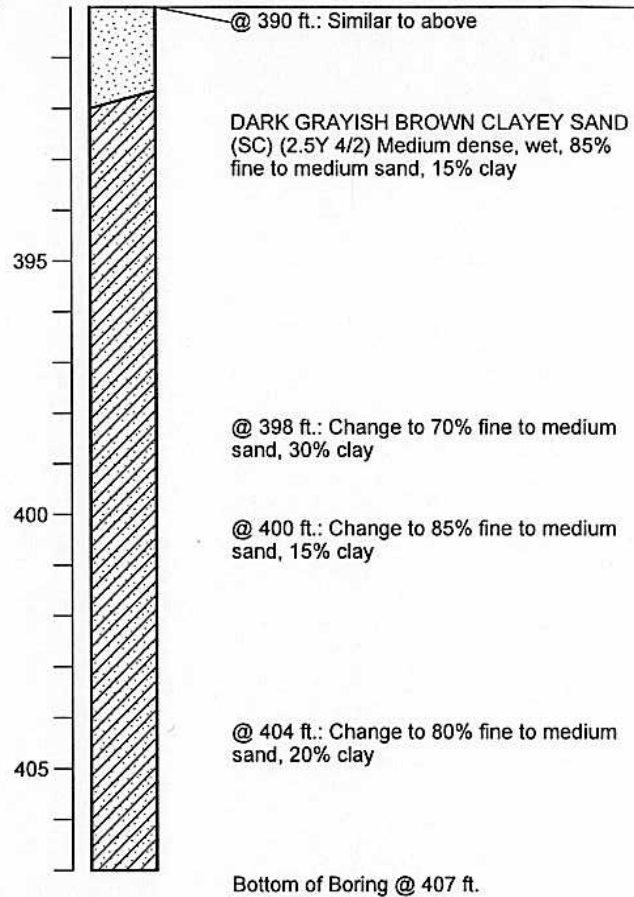
LONESTAR #3
SANDPACK: 392
to 407 ft.

SAMPLING PORT
MP-BW-41-396 at
394.37 ft.

EXTERNAL
SCREEN: 395 to
400 ft.

PURGE PORT:
400 ft.

BOTTOM WELL
CAP: 407 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MP-BW-41
OUCTP

Fort Ord, California

PLATE

A9

DRAWN
MBP

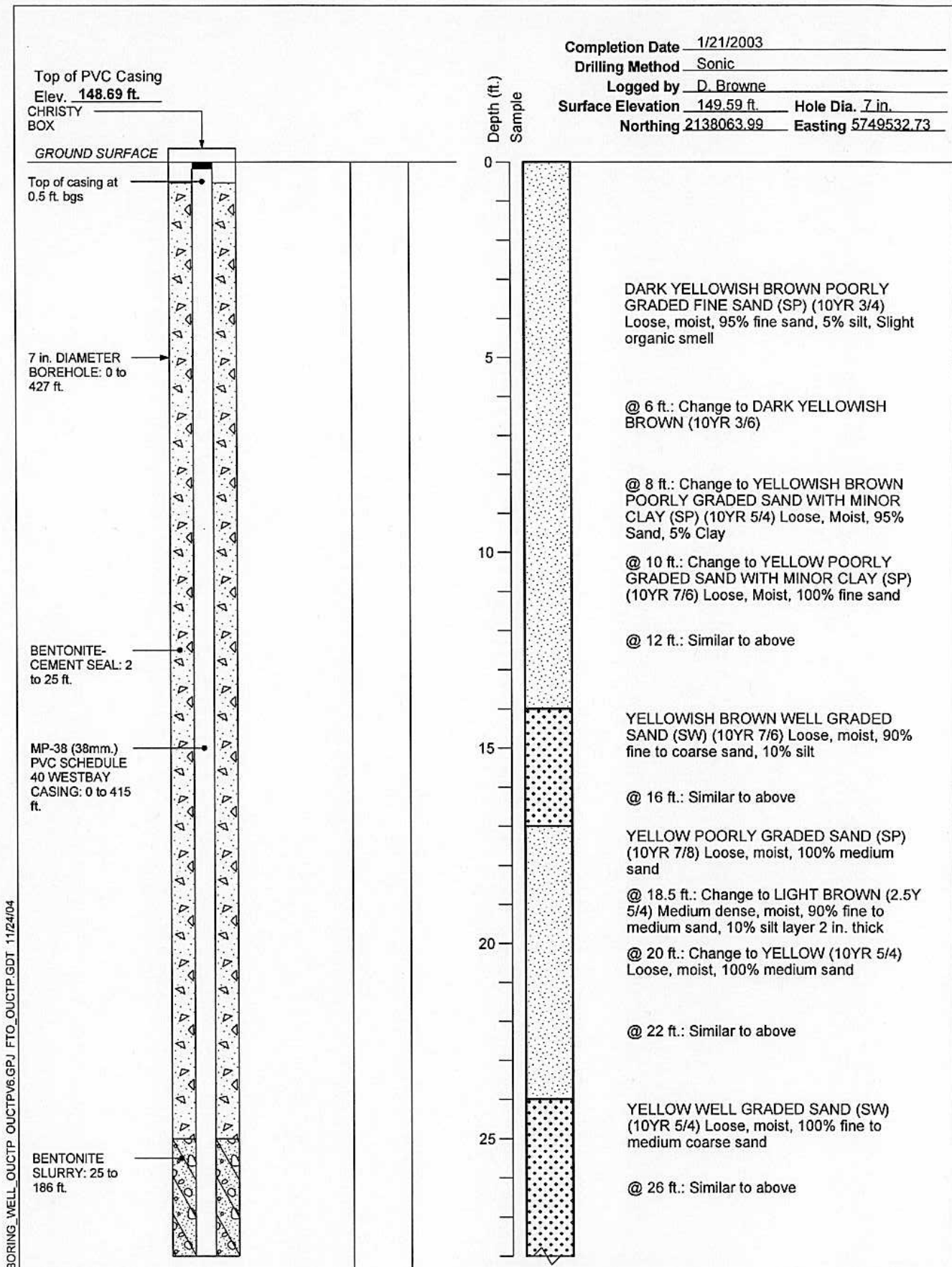
JOB NUMBER
55596 001701

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JOB NUMBER
55596 001701

Well Construction Details and
Log of Boring MP-BW-42
OUCTP

Fort Ord, California

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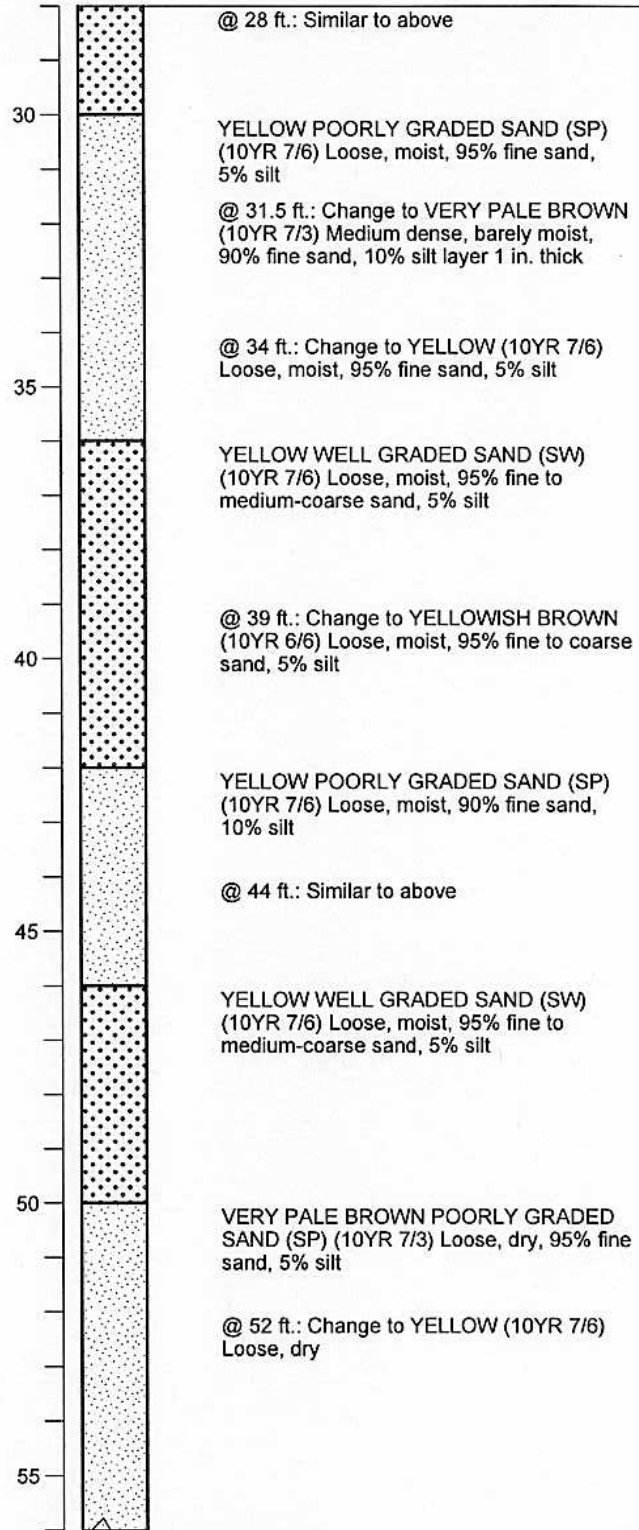
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PLATE

Completion Date 1/21/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 149.59 ft. Hole Dia. 7 in.
 Northing 2138063.99 Easting 5749532.73

Depth (ft.)
 Sample

BENTONITE
 SLURRY: 25 to
 186 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
 Log of Boring MP-BW-42
 OUCTP

PLATE



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Fort Ord, California

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JOB NUMBER
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DATE
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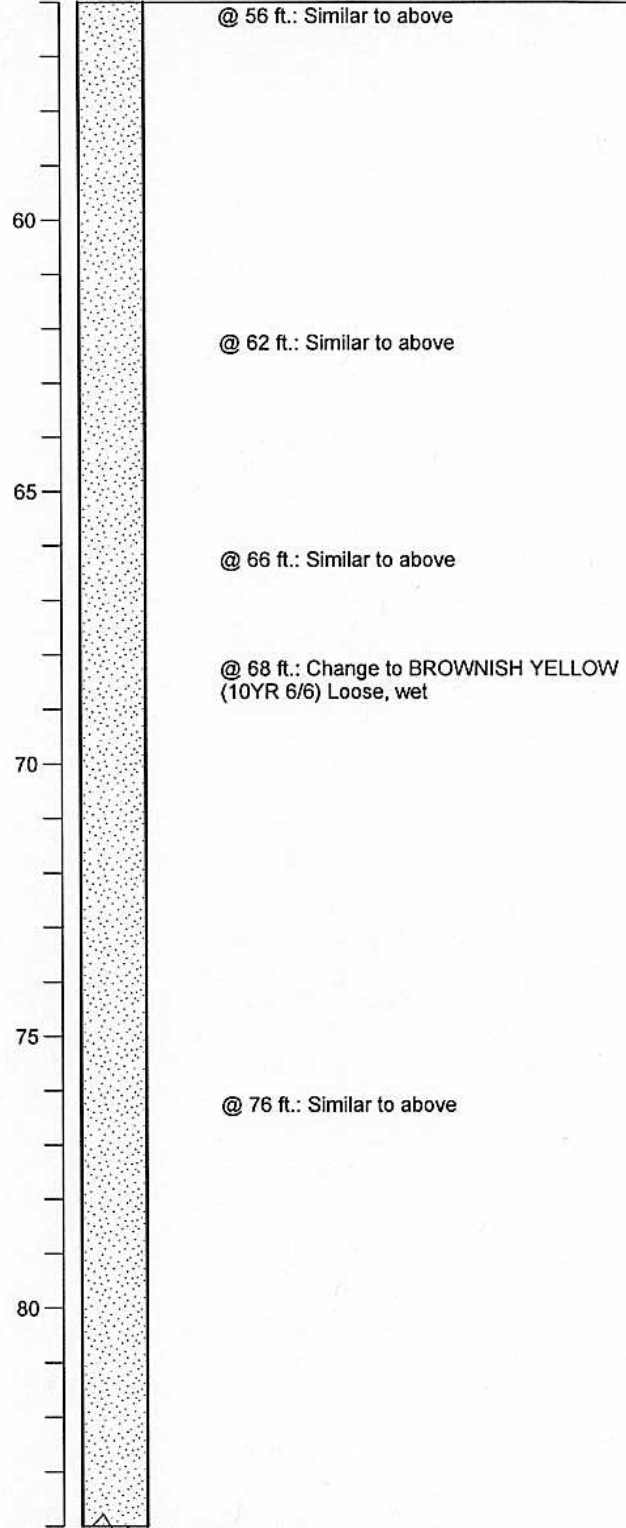
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Completion Date 1/21/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 149.59 ft. Hole Dia. 7 in.
 Northing 2138063.99 Easting 5749532.73

Depth (ft.)
 Sample

BENTONITE
 SLURRY: 25 to
 186 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
 Log of Boring MP-BW-42
 OUCTP

PLATE



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Fort Ord, California

DRAWN
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JOB NUMBER
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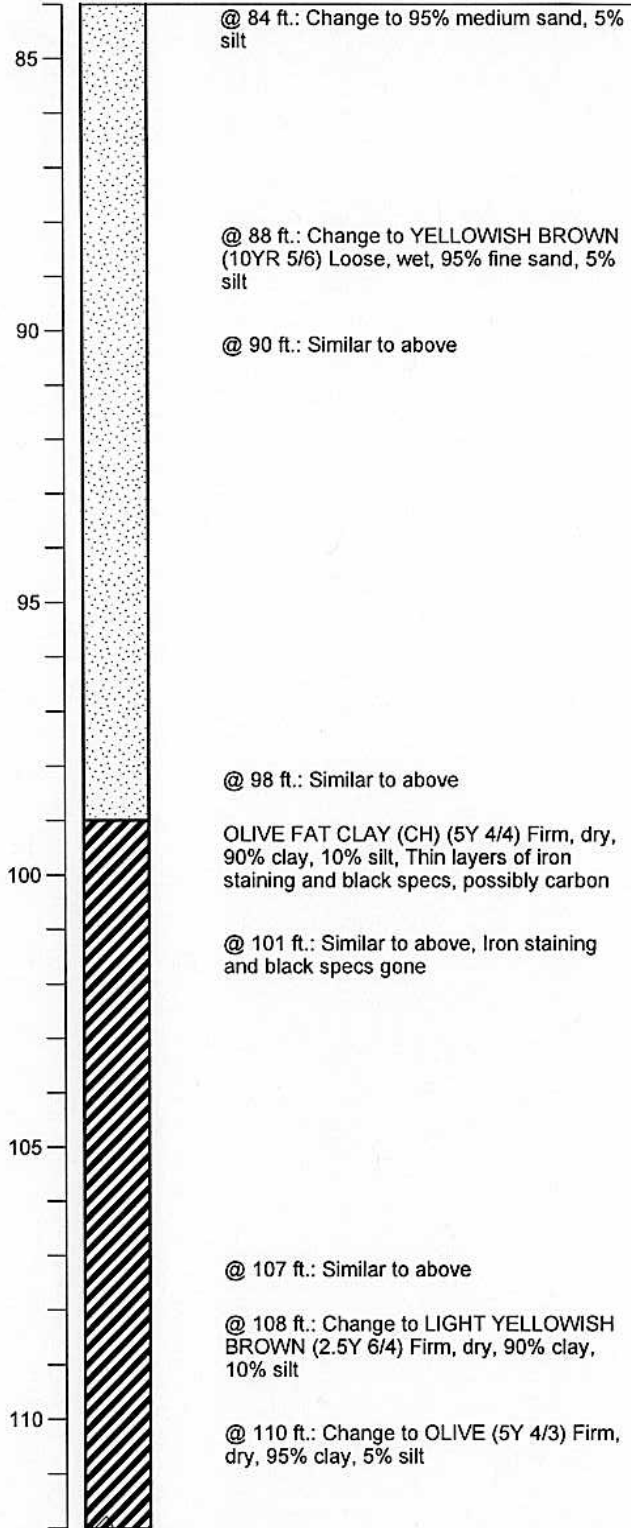
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Completion Date 1/21/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 149.59 ft. Hole Dia. 7 in.
 Northing 2138063.99 Easting 5749532.73

Depth (ft.)
 Sample

BENTONITE
 SLURRY: 25 to
 186 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
 Log of Boring MP-BW-42
 OUCTP

PLATE



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Fort Ord, California

DRAWN
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JOB NUMBER
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Completion Date 1/21/2003

Drilling Method Sonic

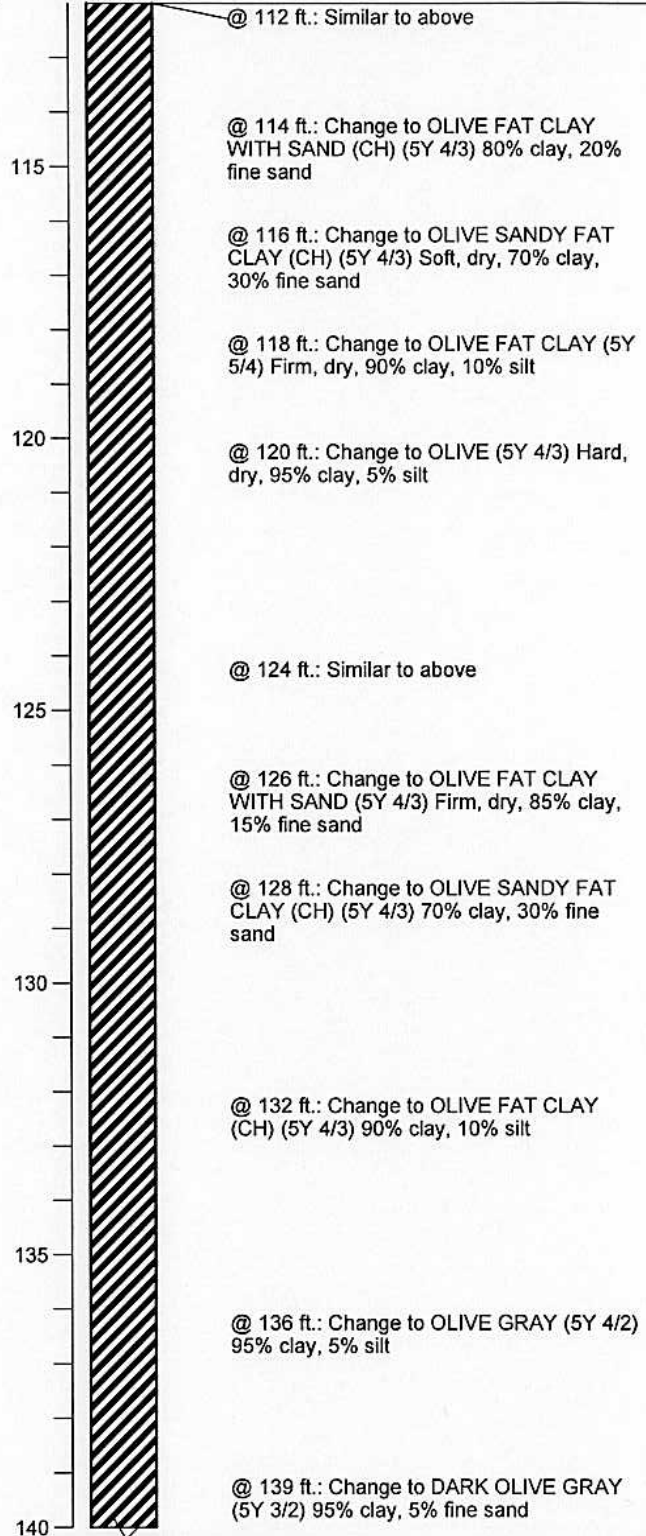
Logged by D. Browne

Surface Elevation 149.59 ft. Hole Dia. 7 in.

Northing 2138063.99 Easting 5749532.73

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
186 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MP-BW-42
OUCTP

PLATE

Fort Ord, California

DRAWN
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JOB NUMBER
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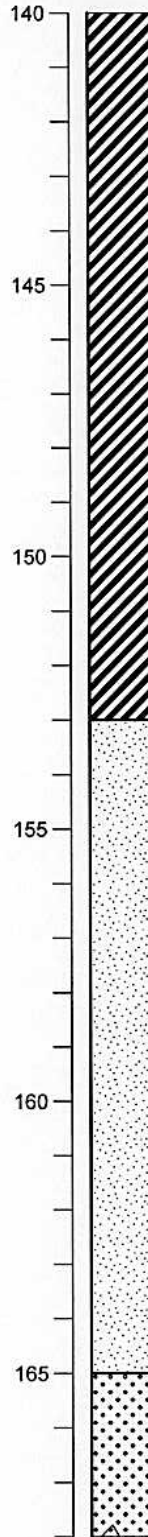
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Completion Date 1/21/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 149.59 ft. Hole Dia. 7 in.
 Northing 2138063.99 Easting 5749532.73

Depth (ft.)
 Sample

BENTONITE
 SLURRY: 25 to
 186 ft.



@ 140 ft.: Change to DARK GREENISH
 GRAY (5GY 4/1) 95% clay, 5% silt

@ 150 ft.: Similar to above

@ 152 ft.: Change to OLIVE (5Y 4/3) Iron
 oxide and carbon appear to be present
 PALE OLIVE POORLY GRADED SAND
 (SP) (5Y 6/3) Loose, moist, 90% medium
 sand, 10% fines

@ 154.5 ft.: Change to WHITE (5Y 8/1)
 Loose, dry, 60% fine sand, 40% fines

@ 156 ft.: Change to LIGHT GRAY (5Y 7/2)
 Loose, dry, 90% fine sand, 10% silt

@ 161 ft.: Change to BROWNISH YELLOW
 (10YR 6/6) Loose, wet, 90% fine to medium
 sand, 10% silt

PALE YELLOW WELL GRADED SAND
 (SW) (2.5Y 7/4) 95% coarse to fine sand,
 5% silt

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MP-BW-42
 OUCTP

PLATE

Fort Ord, California

A10

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Completion Date 1/21/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 149.59 ft. Hole Dia. 7 in.

Northing 2138063.99 Easting 5749532.73

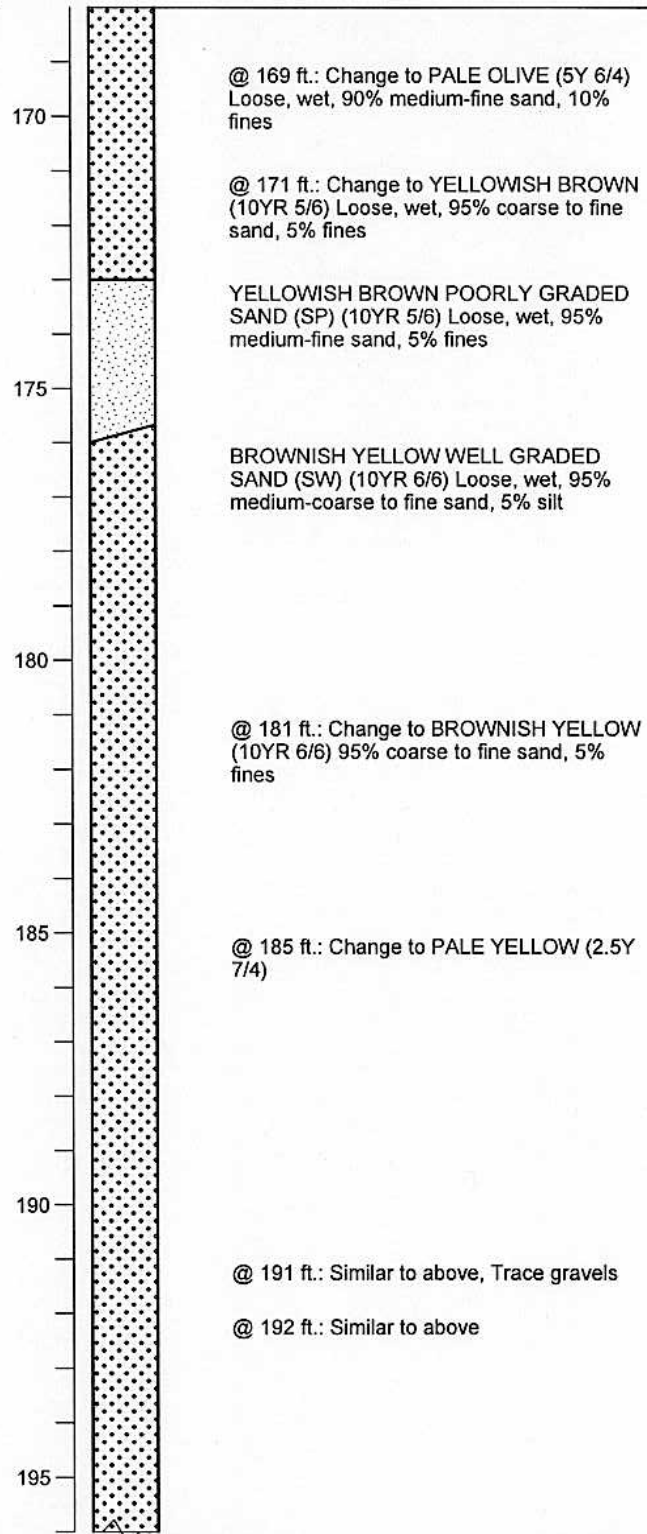
Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
186 ft.

BENTONITE
PELLET SEAL:
186 to 193 ft.

LONESTAR # 3
SANDPACK: 193
to 203 ft.

SAMPLING PORT
MP-BW-42-195 at
195.29 ft.



BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MP-BW-42
OUCTP

Fort Ord, California

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DATE
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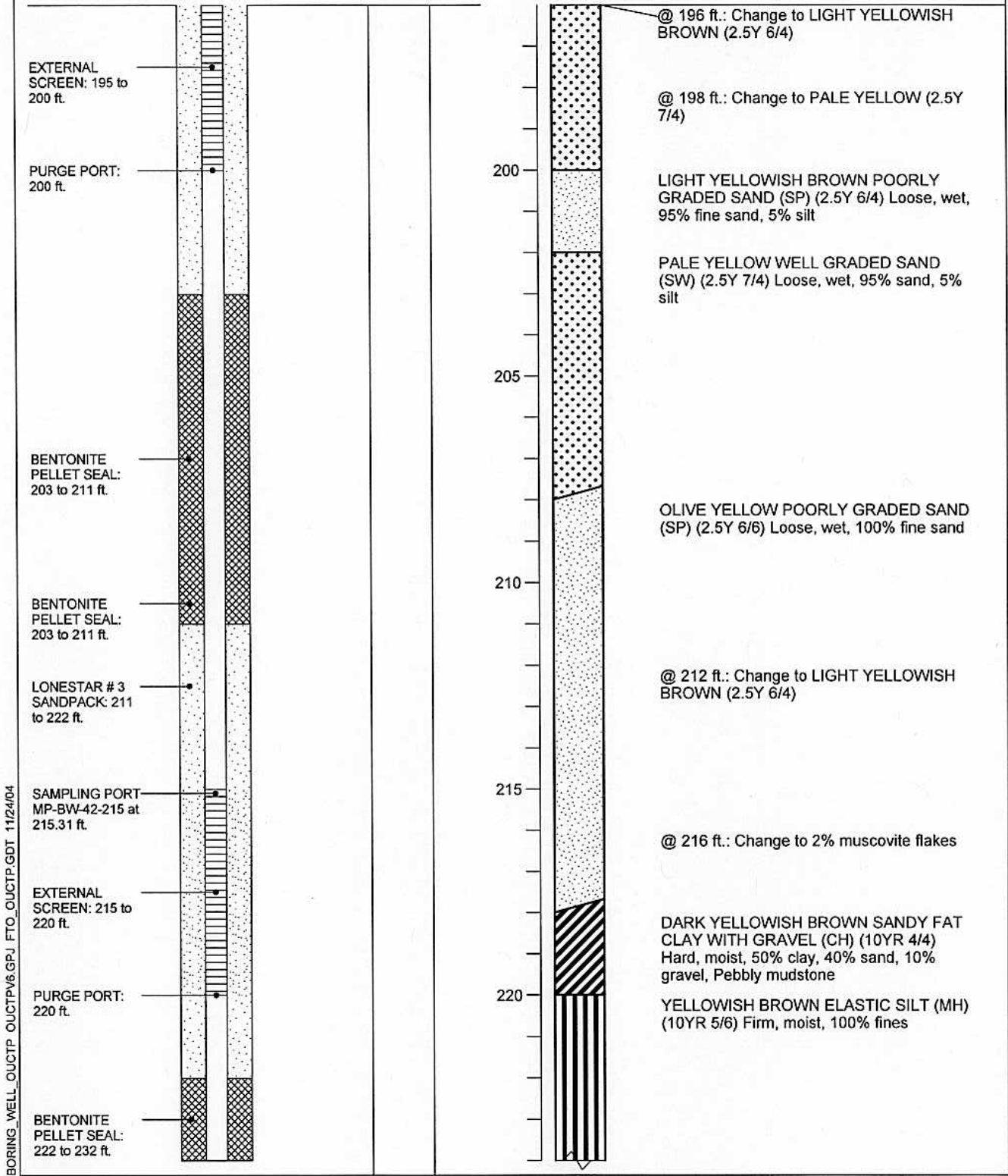
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PLATE

Completion Date 1/21/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 149.59 ft. Hole Dia. 7 in.
 Northing 2138063.99 Easting 5749532.73

Depth (ft.)
 Sample



BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

**Well Construction Details and
 Log of Boring MP-BW-42**
 OUCTP

PLATE



MACTEC

Fort Ord, California

DRAWN
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JOB NUMBER
 55596 001701

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DATE
 11/04

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A10

Completion Date 1/21/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 149.59 ft. Hole Dia. 7 in.

Northing 2138063.99 Easting 5749532.73

Depth (ft.)
Sample

BENTONITE
PELLET SEAL:
222 to 232 ft.

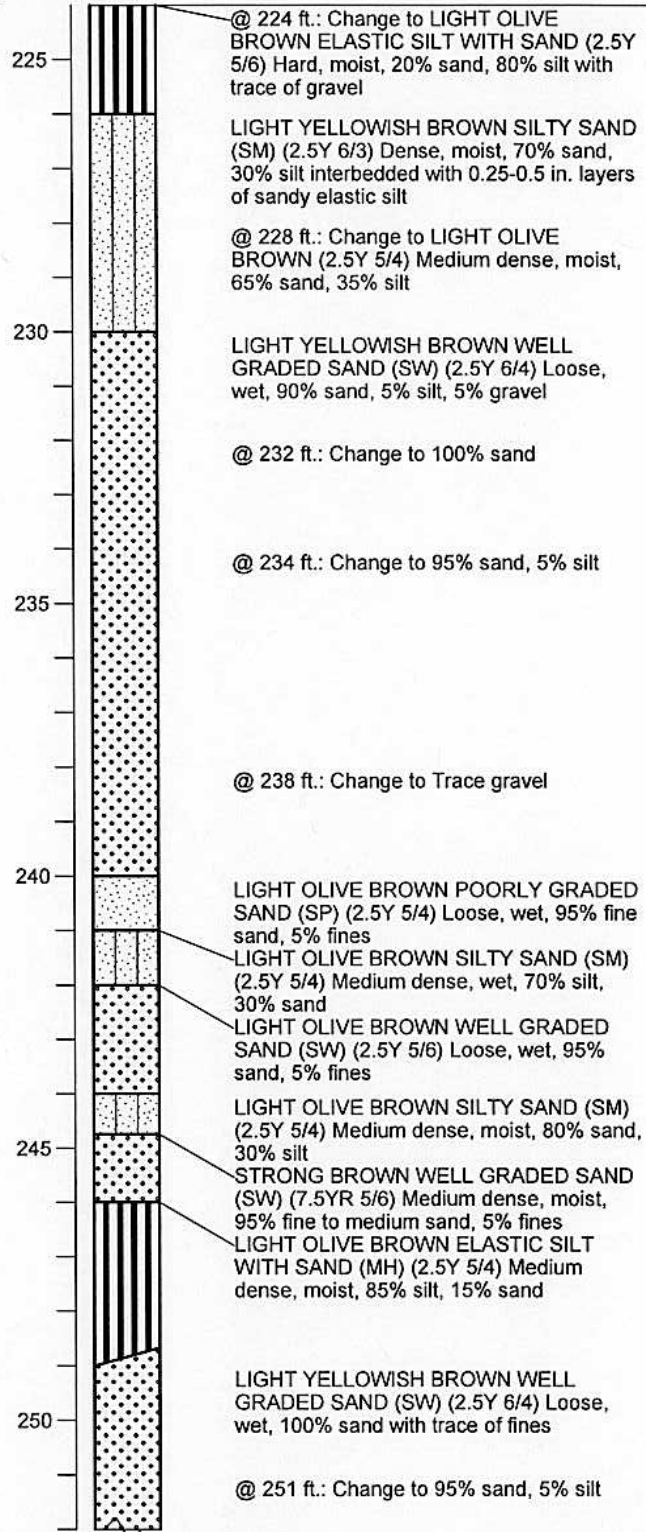
LONESTAR #3
SANDPACK: 232
to 242 ft.

SAMPLING PORT
MP-BW-42-235 at
235.39 ft.

EXTERNAL
SCREEN: 235 to
240 ft.

PURGE PORT:
240 ft.

BENTONITE
PELLET SEAL:
242 to 292 ft.



BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
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OUCTP

PLATE



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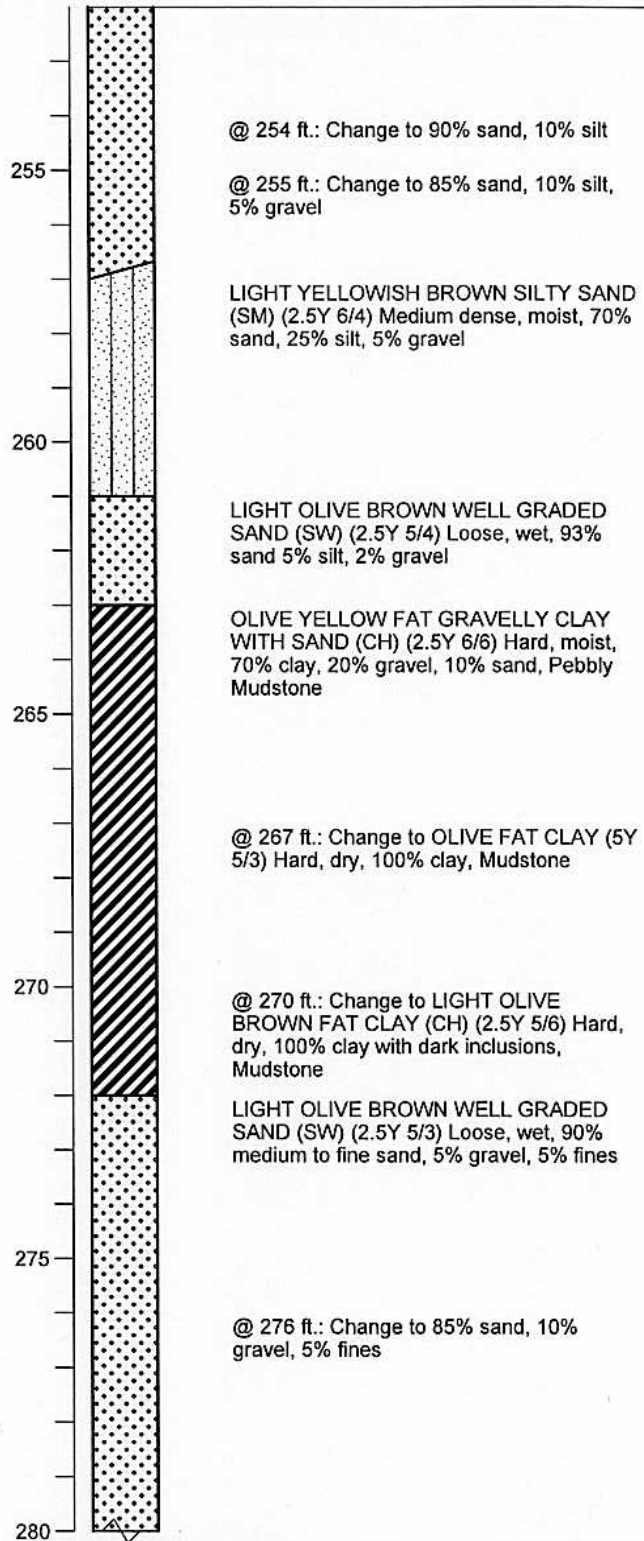
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Completion Date 1/21/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 149.59 ft. Hole Dia. 7 in.
 Northing 2138063.99 Easting 5749532.73

Depth (ft.)
 Sample

BENTONITE
 PELLET SEAL:
 242 to 292 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MP-BW-42
 OUCTP

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Fort Ord, California

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Completion Date 1/21/2003

Drilling Method Sonic

Logged by D. Browne

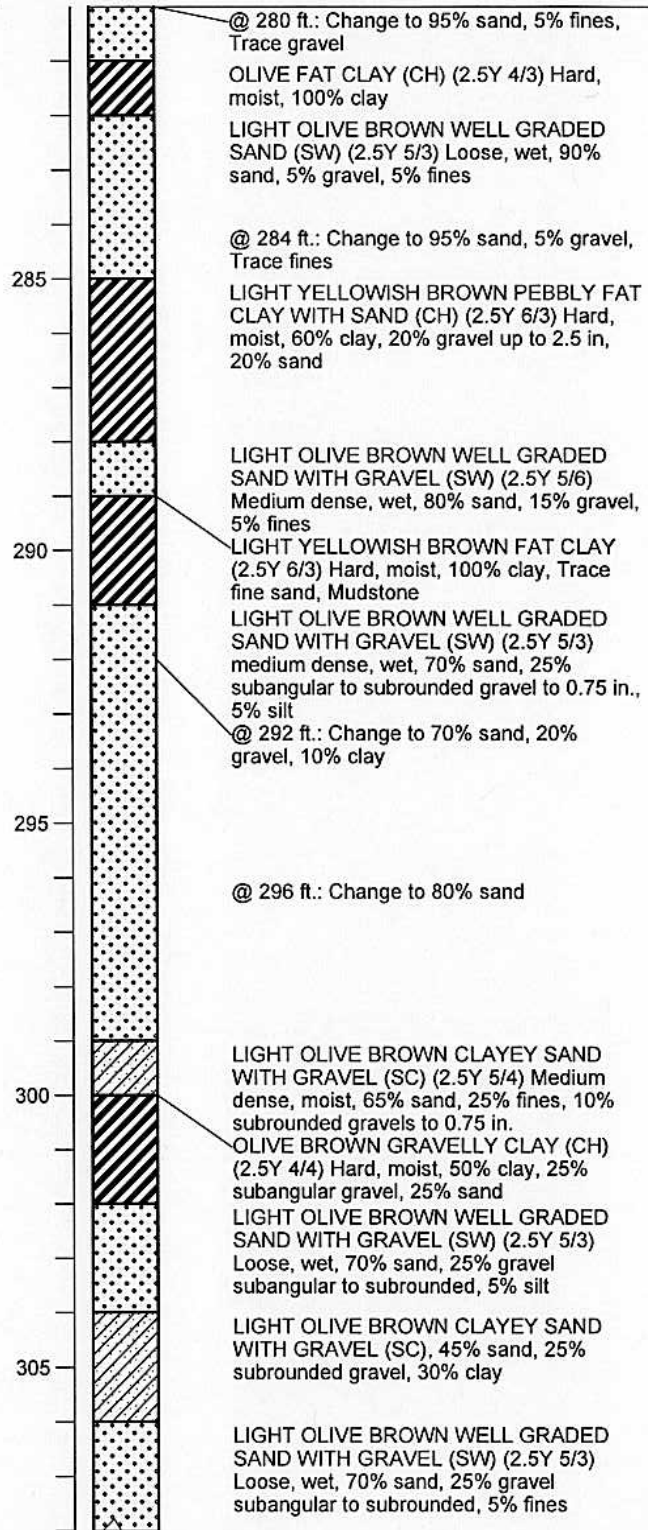
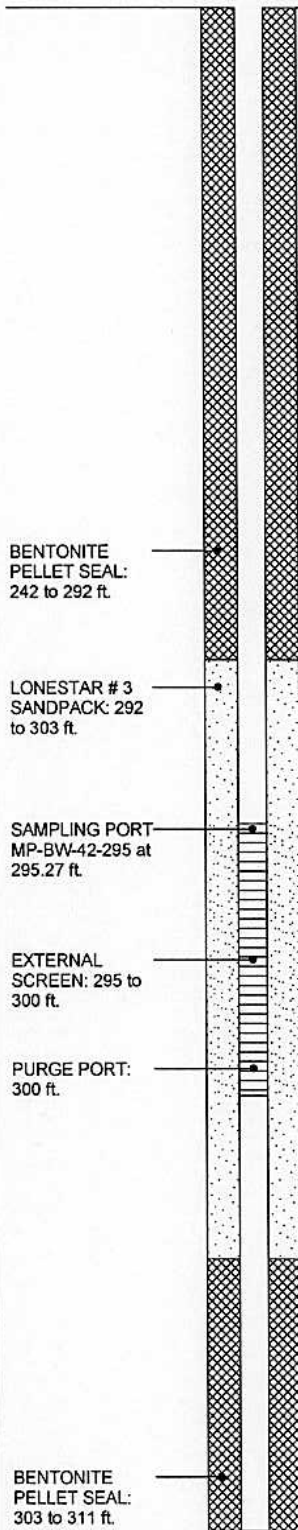
Surface Elevation 149.59 ft.

Hole Dia. 7 in.

Northing 2138063.99

Easting 5749532.73

Depth (ft.)
Sample



BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
Log of Boring MP-BW-42
OUCTP

PLATE



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Fort Ord, California

DRAWN
MBP

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DATE
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Completion Date 1/21/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 149.59 ft.

Hole Dia. 7 in.

Northing 2138063.99

Easting 5749532.73

Depth (ft.)
Sample

BENTONITE
PELLET SEAL:
303 to 311 ft.

LONESTAR # 3
SANDPACK: 311
to 323 ft.

SAMPLING PORT
MP-BW-42-314 at
314.33 ft.

EXTERNAL
SCREEN: 314 to
319 ft.

PURGE PORT:
319 ft.

BENTONITE
PELLET SEAL:
323 to 341 ft.

310

LIGHT OLIVE BROWN CLAYEY SAND
WITH GRAVEL (SC) (2.5Y 5/6) Medium
dense, wet, 35% sand, 40% clay, 25%
gravel up to 3 in.

LIGHT OLIVE BROWN WELL GRADED
SAND WITH GRAVEL (SW), Loose, wet,
65% sand, 30% gravel, 5% fines

315

LIGHT OLIVE BROWN CLAYEY SAND
WITH GRAVEL (SC) (2.5Y 5/4) Loose, wet,
40% sand, 25% gravel up to 2 in., 35% clay

@318 ft.: Change to 50% sand, 30% gravel,
20% clay

320

LIGHT OLIVE BROWN WELL GRADED
SAND WITH GRAVEL (SW) (2.5Y 5/4) 60%
sand, 30% gravel, 10% fines
LIGHT OLIVE BROWN CLAYEY SAND
WITH GRAVEL (SC) (2.5Y 5/3) Dense,
moist, 45% sand, 30% fines, 25% gravel

LIGHT OLIVE BROWN WELL GRADED
SAND WITH GRAVEL (SW) Loose, wet,
60% sand, 40% gravel up to 3 in.
LIGHT OLIVE BROWN CLAYEY SAND
WITH GRAVEL (SC) (2.5Y 5/6) Medium
dense, wet, 40% sand, 30% subrounded
gravel up to 2.5 in., 30% clay

325

LIGHT OLIVE BROWN WELL GRADED
SAND WITH GRAVEL (SW) (2.5Y 5/4)
Loose, wet, 65% sand, 25% gravel up to 1.5
in., 10% fines
LIGHT OLIVE BROWN CLAYEY SAND
WITH GRAVEL (SC) (2.5Y 5/6) Medium
dense, wet, 40% sand, 30% gravel, 30%
clay
YELLOWISH BROWN CLAY (CH) (10YR
5/8) Hard, moist, 100% fines, 1 in. thick
LIGHT OLIVE BROWN CLAYEY SAND
WITH GRAVEL (SC) (2.5Y 5/6) 40% sand,
35% gravel to 2 in., 25% clay
LIGHT OLIVE BROWN WELL GRADED
SAND WITH GRAVEL (SW) (2.5Y 5/4)
Loose, wet, 75% sand, 15% gravel up to 2
in., 10% silt
LIGHT OLIVE BROWN CLAYEY SAND
WITH GRAVEL (SC) (2.5Y 5/6) Medium
dense, wet, 60% sand, 25% clay, 15%
gravel up to 1.5 in

330

335

BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
Log of Boring MP-BW-42
OUCTP

PLATE



MACTEC

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

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DATE
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REVISED DATE

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Completion Date 1/21/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 149.59 ft.

Hole Dia. 7 in.

Northing 2138063.99 Easting 5749532.73

Depth (ft.)
Sample

BENTONITE
PELLET SEAL:
323 to 341 ft.

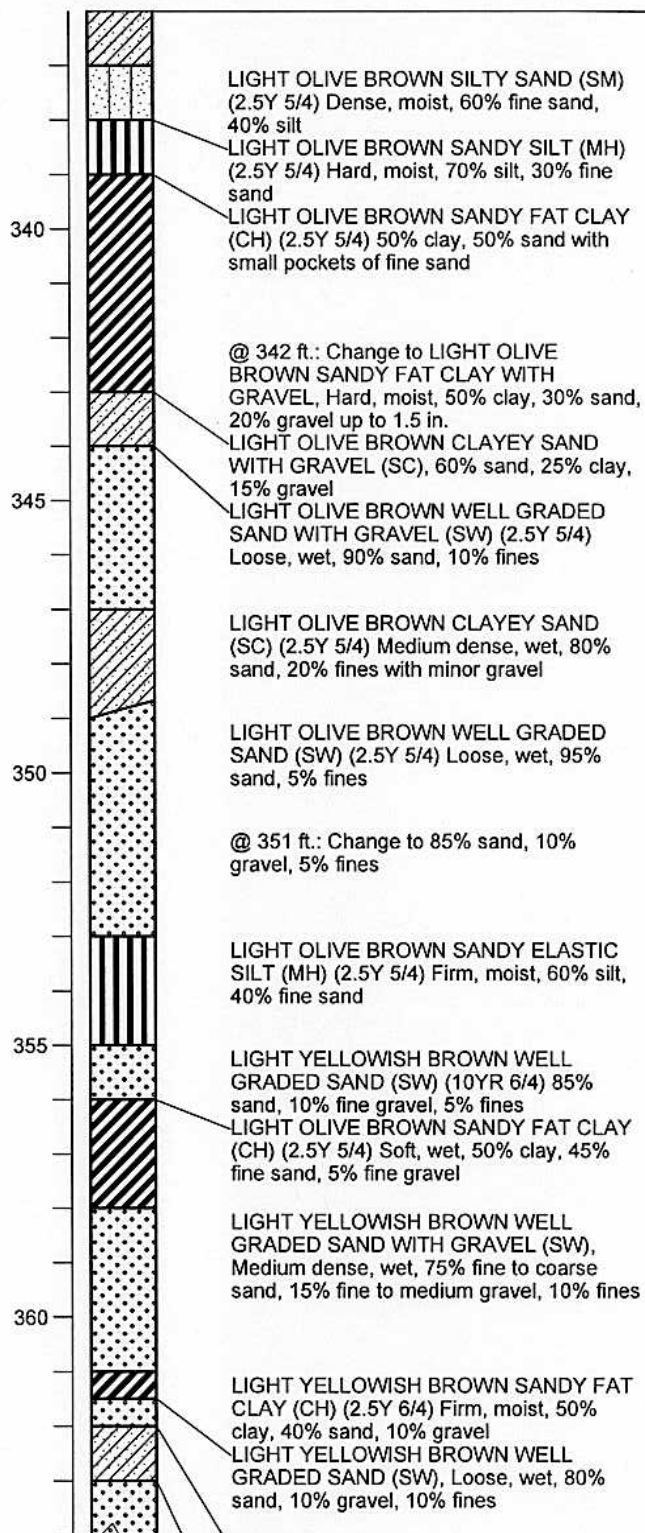
LONESTAR # 3
SANDPACK: 341
to 351 ft.

SAMPLING PORT
MP-BW-42-345 at
345.21 ft.

EXTERNAL
SCREEN: 345 to
350 ft.

PURGE PORT:
350 ft.

BENTONITE
PELLET SEAL:
351 to 397 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MP-BW-42
OUCTP

PLATE

Fort Ord, California

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JOB NUMBER
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Completion Date 1/21/2003

Drilling Method Sonic

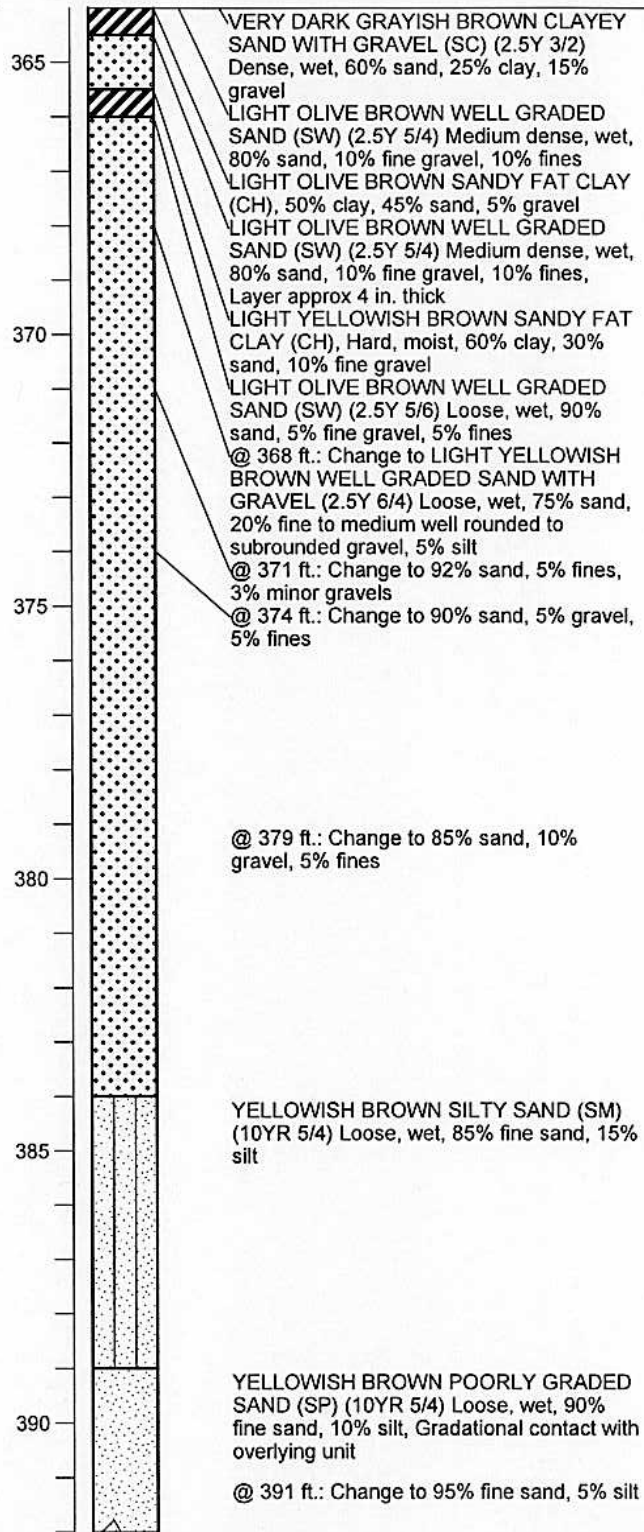
Logged by D. Browne

Surface Elevation 149.59 ft. Hole Dia. 7 in.

Northing 2138063.99 Easting 5749532.73

Depth (ft.)
Sample

BENTONITE
PELLET SEAL:
351 to 397 ft.



BORING WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
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OUCTP

PLATE



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Fort Ord, California

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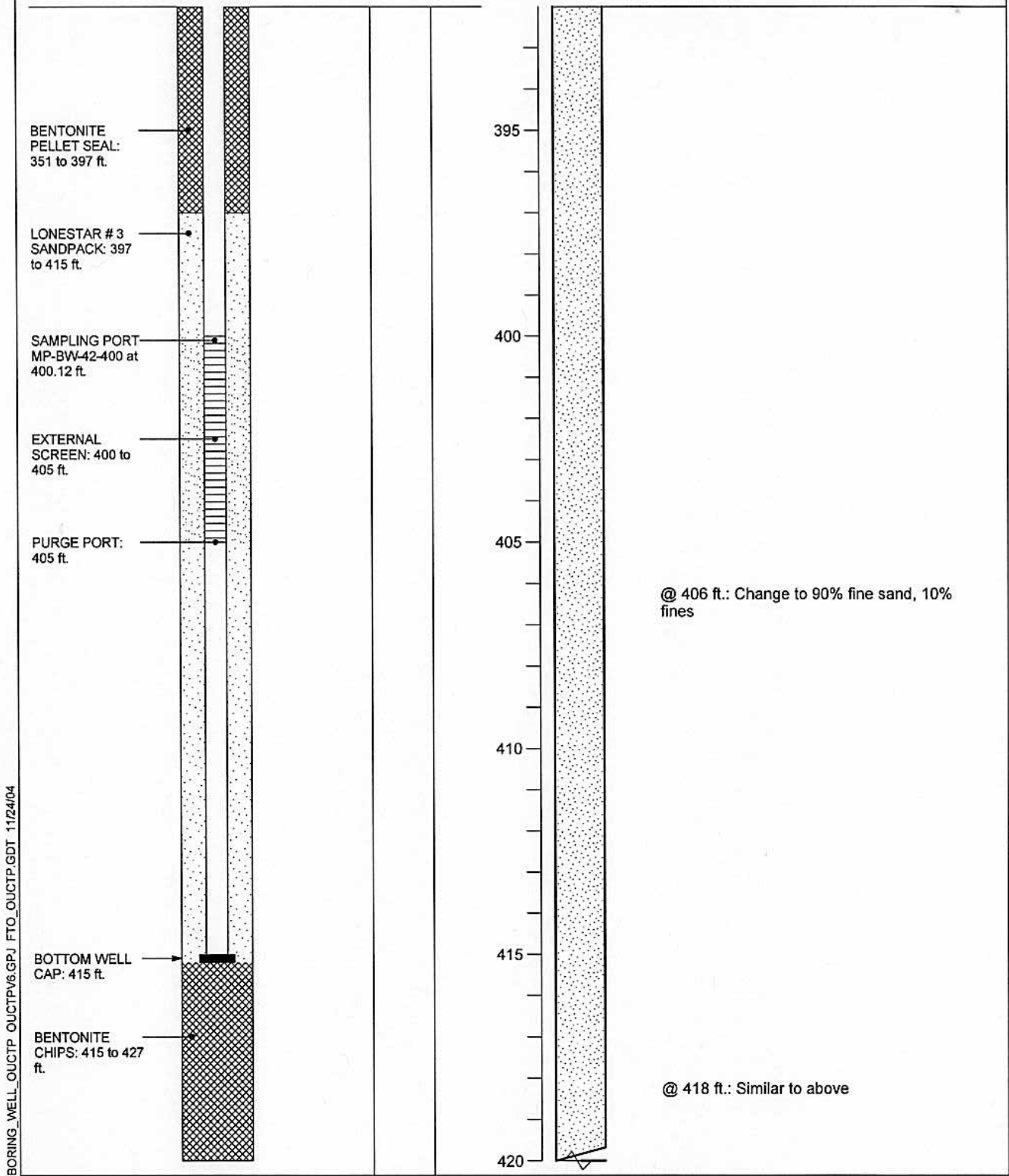
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Completion Date 1/21/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 149.59 ft. Hole Dia. 7 in.
 Northing 2138063.99 Easting 5749532.73

Depth (ft.)
 Sample



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
 Log of Boring MP-BW-42
 OUCTP

PLATE



MACTEC

Fort Ord, California

DRAWN
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JOB NUMBER
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APPROVED

ADT / cm

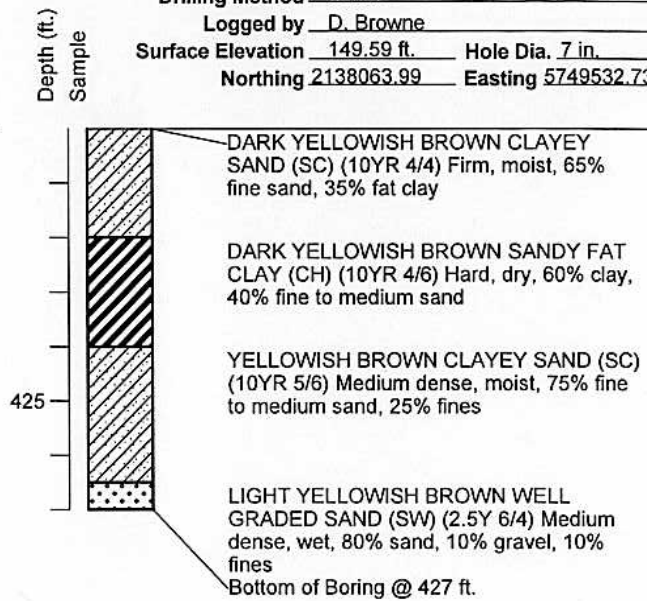
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BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Completion Date 1/21/2003
Drilling Method Sonic
Logged by D. Browne
Surface Elevation 149.59 ft. Hole Dia. 7 in.
Northing 2138063.99 Easting 5749532.73



BENTONITE
CHIPS: 415 to 427
ft.



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Well Construction Details and
Log of Boring MP-BW-42
OUCTP

PLATE

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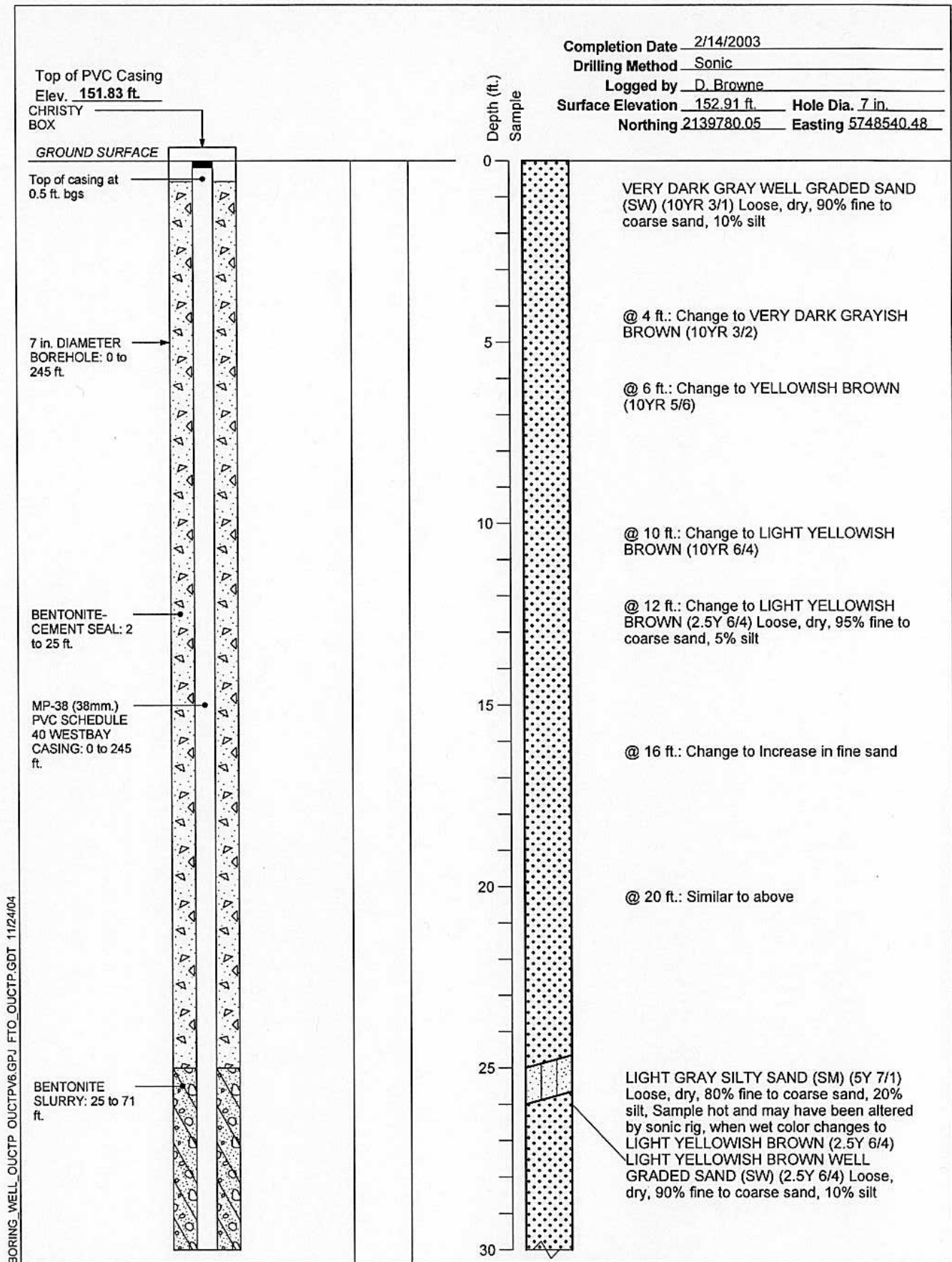
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BORING WELL OUCTP OUCTPV6 GPJ FTO OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MP-BW-46
OUCTP

PLATE

Fort Ord, California

A11

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JOB NUMBER
55596 001701

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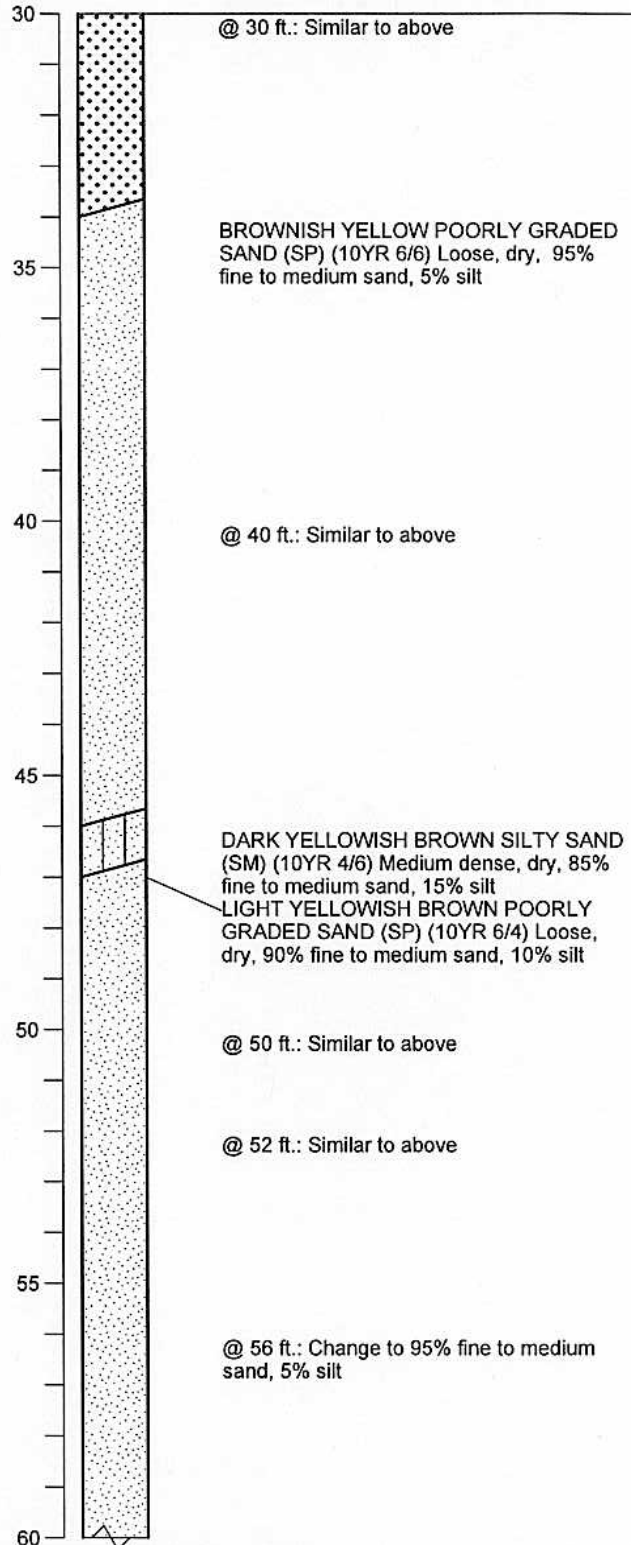
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REVISED DATE

Completion Date 2/14/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 152.91 ft. Hole Dia. 7 in.
 Northing 2139780.05 Easting 5748540.48

Depth (ft.)
 Sample

BENTONITE
 SLURRY: 25 to 71
 ft.



BORING WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MP-BW-46
 OUCTP

PLATE

Fort Ord, California

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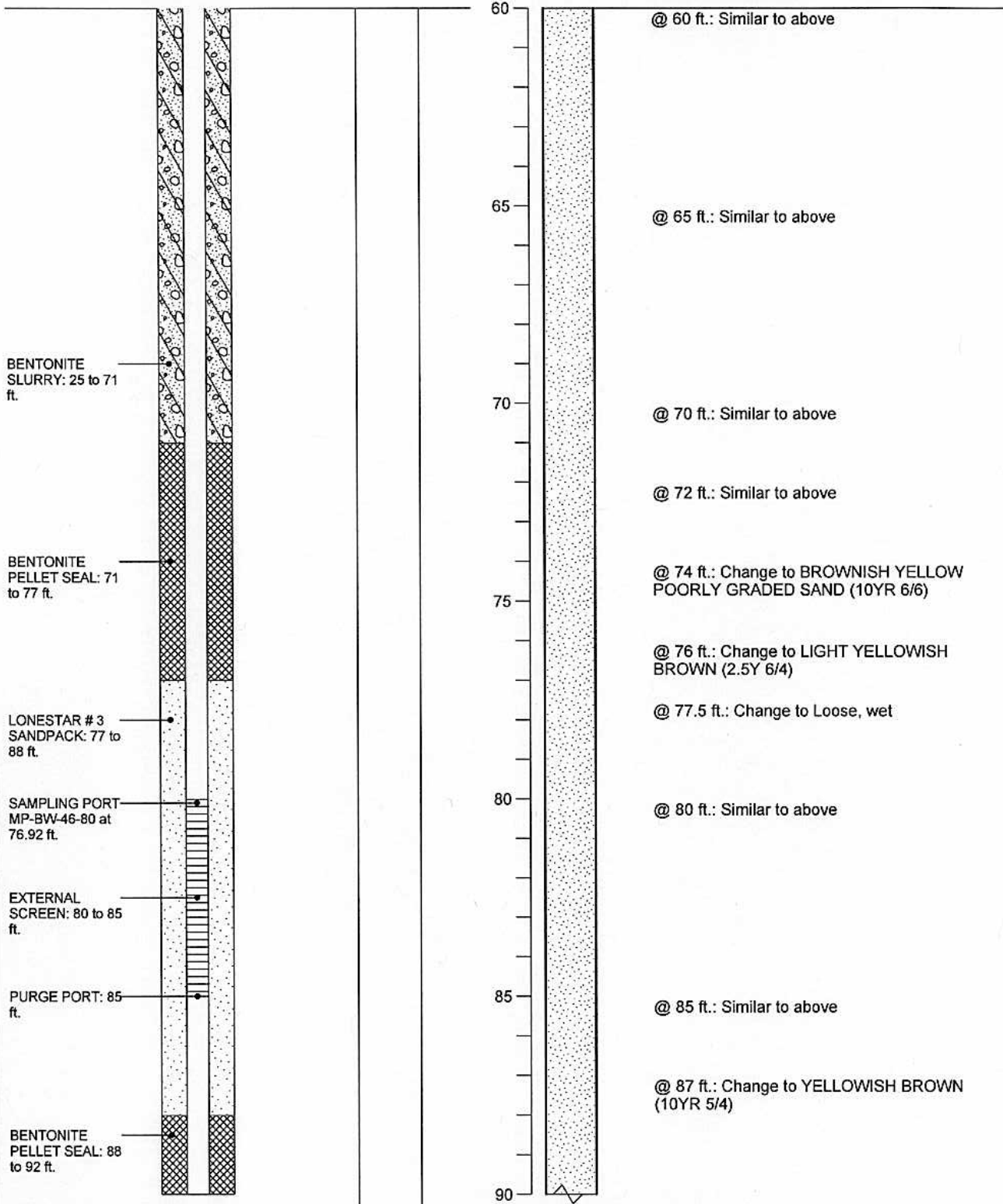
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 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 152.91 ft. Hole Dia. 7 in.
 Northing 2139780.05 Easting 5748540.48

BORING WELL OUCTPV6.GPJ FTO OUCTP.GDT 11/24/04



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**Well Construction Details and
Log of Boring MP-BW-46**
OUCTP

PLATE

Fort Ord, California

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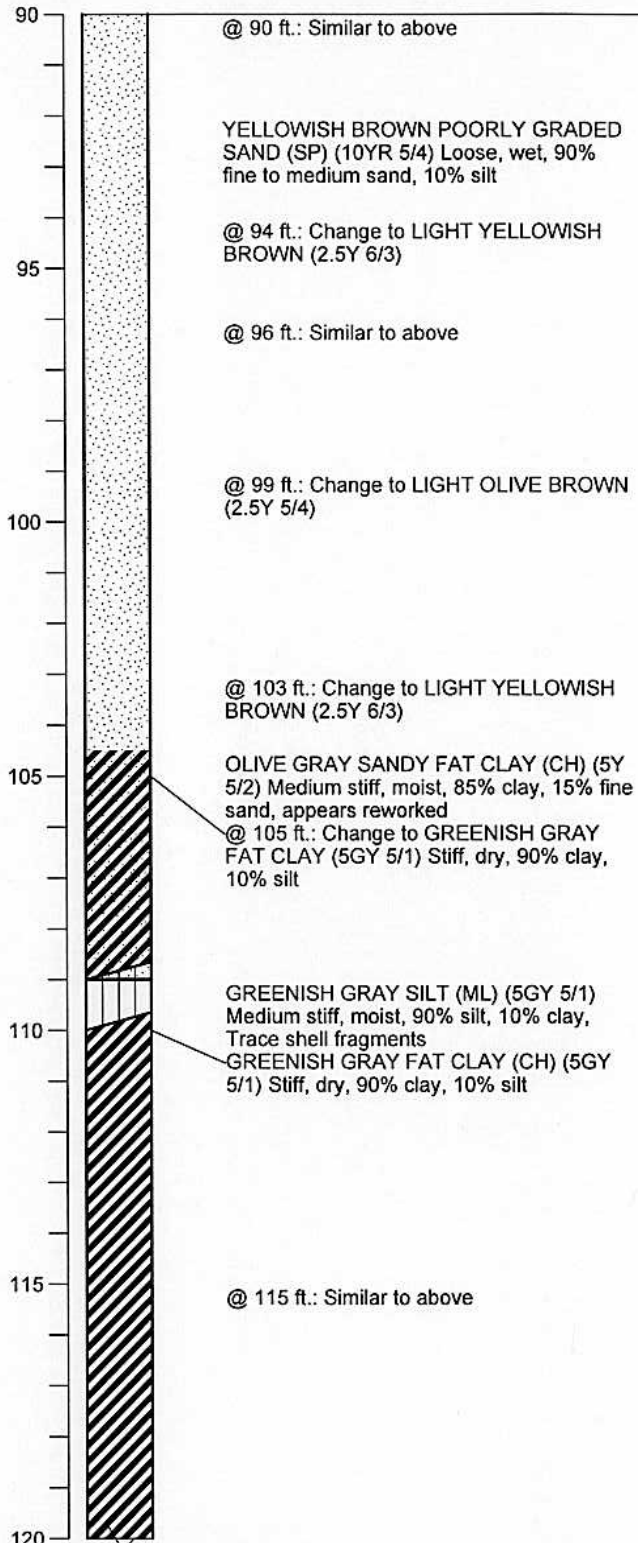
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A11

Completion Date 2/14/2003Drilling Method SonicLogged by D. BrowneSurface Elevation 152.91 ft. Hole Dia. 7 in.Northing 2139780.05 Easting 5748540.48Depth (ft.)
SampleBENTONITE
PELLET SEAL: 88
to 92 ft.LONESTAR #3
SANDPACK: 92 to
103 ft.SAMPLING PORT
MP-BW-46-95 at
92 ft.EXTERNAL
SCREEN: 95 to
100 ft.PURGE PORT:
100 ft.BENTONITE
PELLET SEAL:
103 to 167.5 ft.

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
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PLATE

OUCTP

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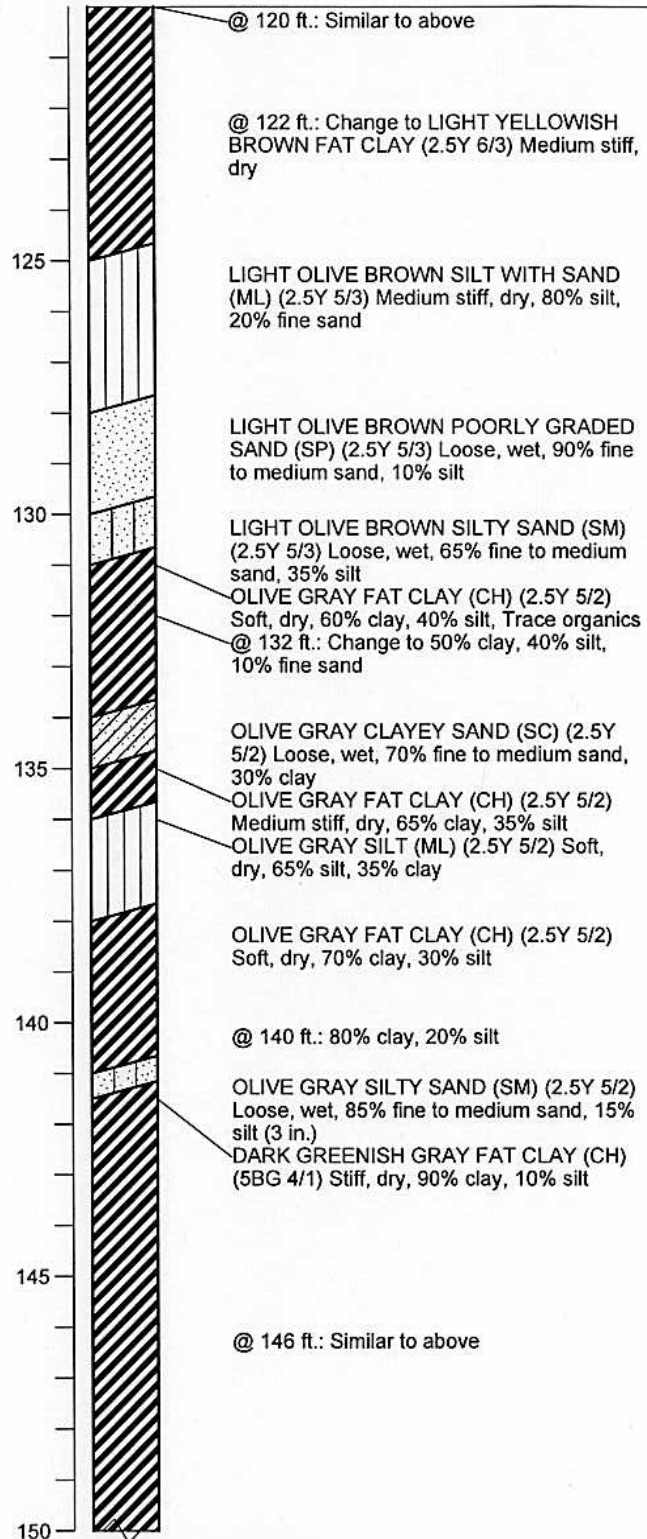
Logged by D. Browne

Surface Elevation 152.91 ft. Hole Dia. 7 in.

Northing 2139780.05 Easting 5748540.48

Depth (ft.)
Sample

BENTONITE
PELLET SEAL:
103 to 167.5 ft.



BORING WELL OUCTP OUCTPV6.GPJ FTO OUCTP.GDT 11/24/04



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Well Construction Details and
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OUCTP

PLATE

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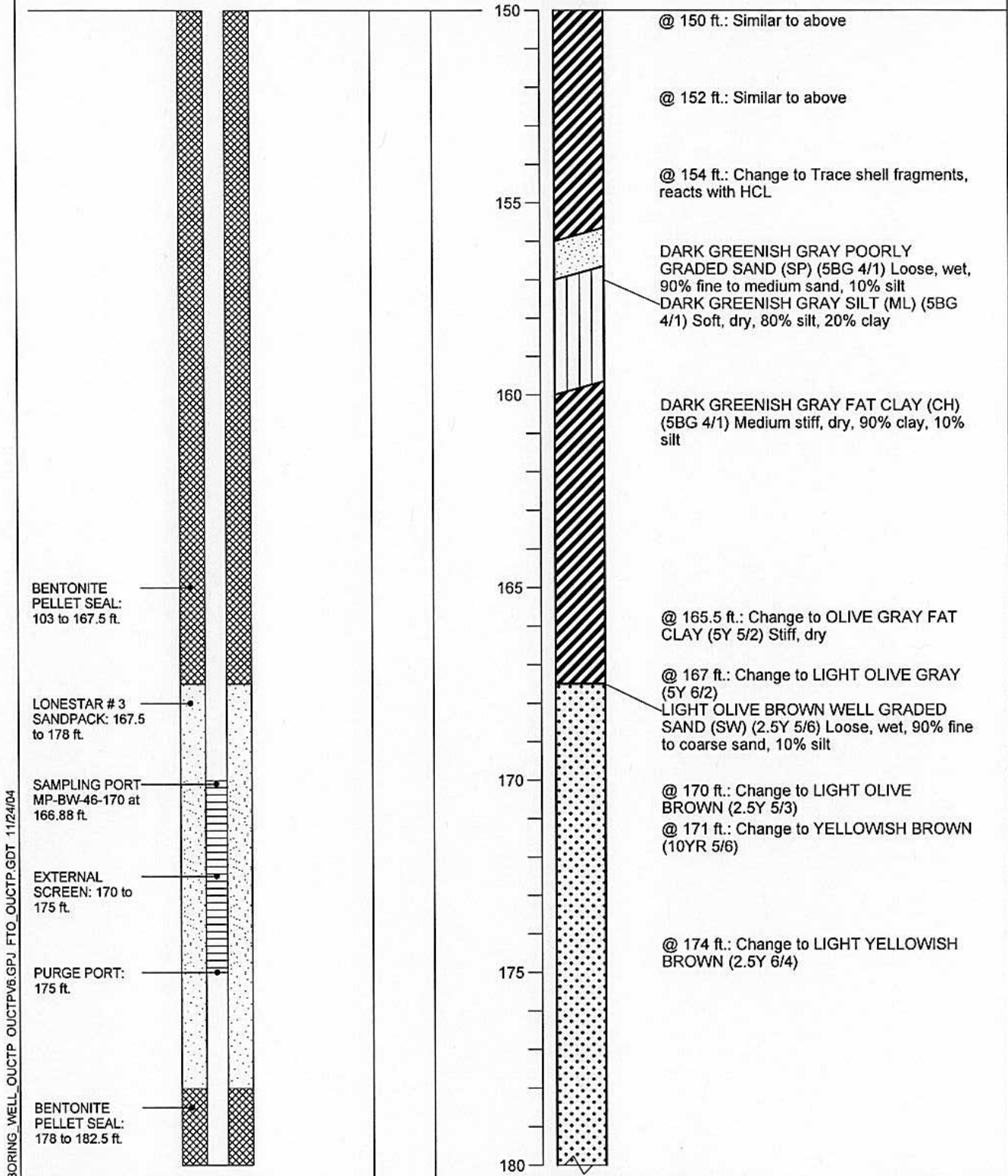
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Completion Date 2/14/2003
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 Surface Elevation 152.91 ft. Hole Dia. 7 in.
 Northing 2139780.05 Easting 5748540.48



Well Construction Details and Log of Boring MP-BW-46
 OUCTP

PLATE



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Fort Ord, California

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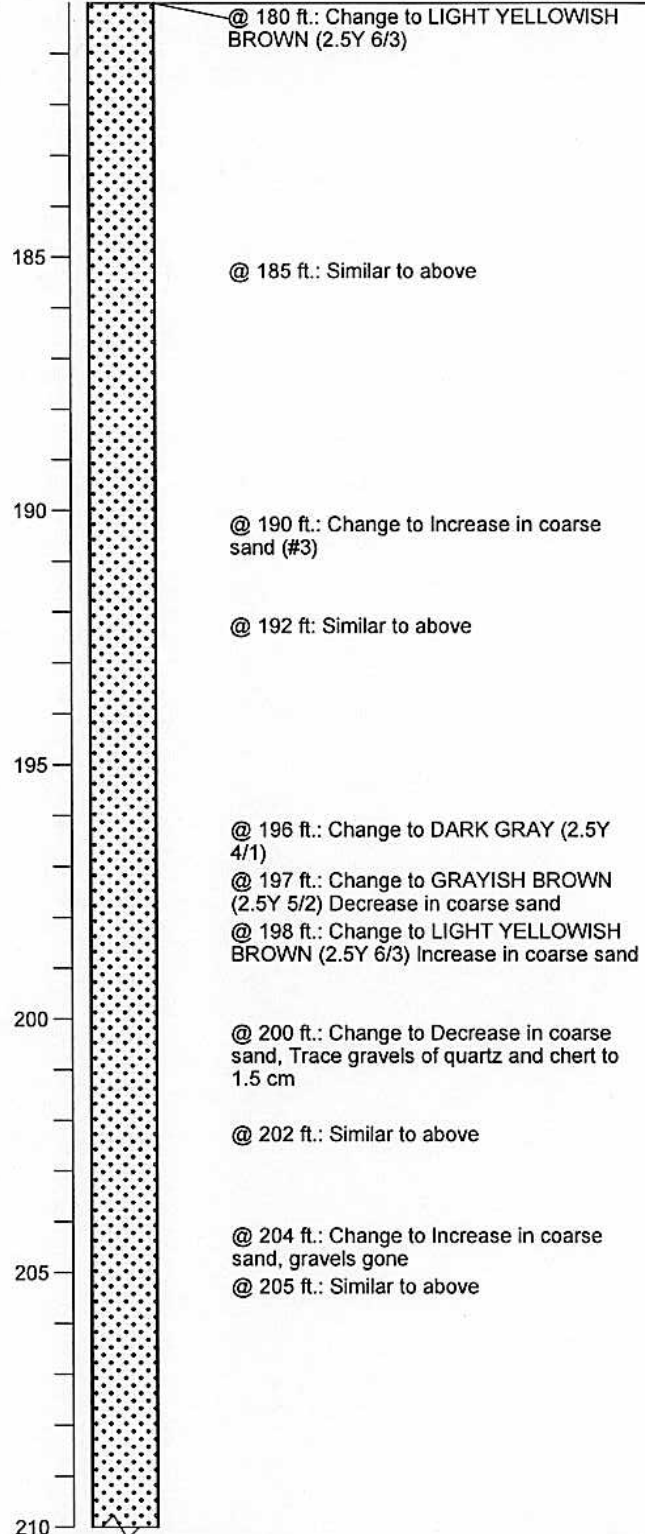
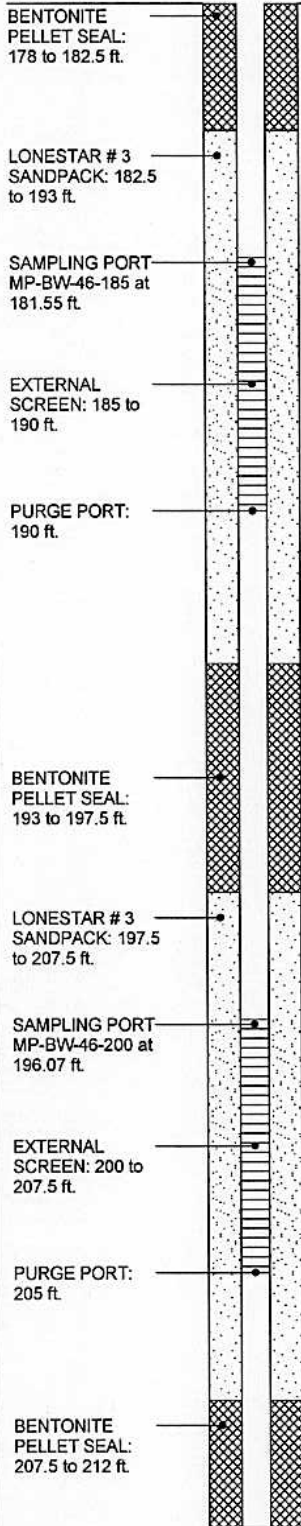
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Completion Date 2/14/2003
 Drilling Method Sonic
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 Surface Elevation 152.91 ft. Hole Dia. 7 in.
 Northing 2139780.05 Easting 5748540.48

Depth (ft.)
 Sample



BORING WELL OUCTP OUCTPV6.GPJ FTO OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MP-BW-46
 OUCTP

PLATE

Fort Ord, California

DRAWN
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A11

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Drilling Method Sonic

Logged by D. Browne

Surface Elevation 152.91 ft. Hole Dia. 7 in.

Northing 2139780.05 Easting 5748540.48

Depth (ft.)
Sample

BENTONITE
PELLET SEAL:
207.5 to 212 ft.

LONESTAR #3
SANDPACK: 212
to 230 ft.

SAMPLING PORT
MP-BW-46-215 at
210.81 ft.

EXTERNAL
SCREEN: 215 to
220 ft.

PURGE PORT:
220 ft.

BOTTOM WELL
CAP: 230 ft.

BENTONITE
PELLET SEAL:
230 to 245 ft.

@ 210 ft.: Similar to above

@ 213 ft.: Change to Decrease in coarse
sand

@ 214 ft.: Change to GRAYISH BROWN
(2.5Y 5/2)

@ 215.5 ft.: Change to BROWNISH
YELLOW WELL GRADED SAND (SW)
(10YR 6/8) Loose, wet, 85% fine to coarse
sand, 10% silt, 5% subrounded gravel of
chert and quartz

@ 216 ft.: Change to LIGHT YELLOWISH
BROWN WELL GRADED SAND (2.5Y 6/3)
Loose, wet, 90% fine to coarse sand, 10%
silt

LIGHT OLIVE BROWN POORLY GRADED
SAND (SP) (2.5Y 5/3) Loose, wet, 90% fine
to medium sand, 10% silt

@ 220 ft.: Similar to above

@ 224 ft.: Change to DARK YELLOWISH
BROWN (10YR 4/4)

@ 225 ft.: Change to STRONG BROWN
(7.5YR 4/6) 0.5 cm bands embedded every
1-2 inches

@ 225.5 ft.: Change to LIGHT OLIVE
BROWN (2.5Y 5/3)

@ 226.5 ft.: Change to 85% fine to medium
sand, 10% silt, 5% subrounded gravels to
1.5 cm

LIGHT YELLOWISH BROWN SILT (ML)
(2.5Y 6/3) Medium stiff, dry, 60% silt, 40%
fat clay

LIGHT OLIVE BROWN FAT CLAY (CH)
(2.5Y 5/3) Stiff, dry, 90% clay, 10% silt

@ 235 ft.: Similar to above

LIGHT OLIVE BROWN SILT (ML) (2.5Y
5/4) Medium stiff, dry, 80% clay, 20% silt
LIGHT OLIVE BROWN SILTY SAND (SM)
(2.5Y 5/3) Medium dense, moist, 60% fine
sand, 40% silt

215

220

225

230

235

240

Well Construction Details and
Log of Boring MP-BW-46

OUCTP

Fort Ord, California

PLATE

A11



MACTEC

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED

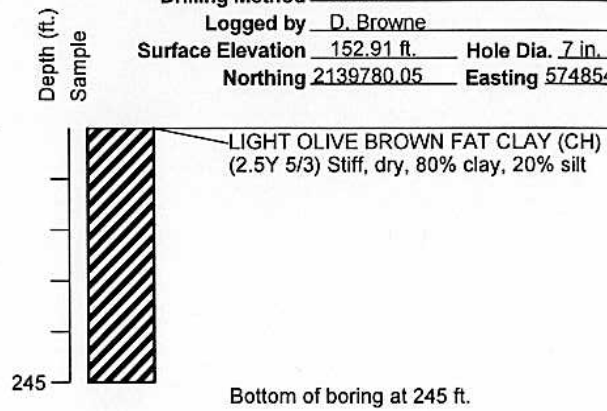
MDT / am

DATE
11/04

REVISED DATE

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Completion Date 2/14/2003
Drilling Method Sonic
Logged by D. Browne
Surface Elevation 152.91 ft. Hole Dia. 7 in.
Northing 2139780.05 Easting 5748540.48



MACTEC

Well Construction Details and
Log of Boring MP-BW-46
OUCTP

PLATE

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED

MDT / cm

DATE
11/04

A11
REVISED DATE

Completion Date 2/11/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 195.63 ft. Hole Dia. 7 in.

Northing 2138142.6 Easting 5748217.08

Top of PVC Casing

Elev. 195.24 ft.

CHRISTY
BOX

GROUND SURFACE

Top of casing at
0.5 ft. bgs

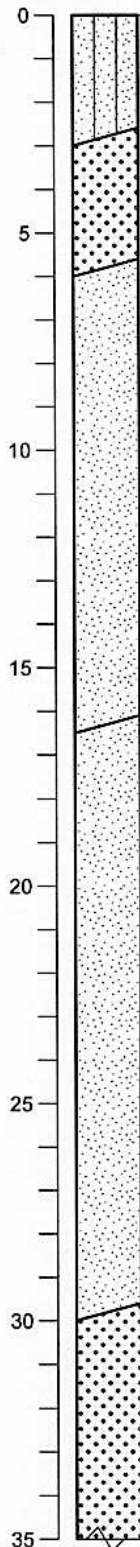
7 in. DIAMETER
BOREHOLE: 0 to
285 ft.

BENTONITE-
CEMENT SEAL: 2
to 25 ft.

MP-38 (38mm.)
PVC SCHEDULE
40 WESTBAY
CASING: 0 to 282
ft.

BENTONITE
SLURRY: 25 to
110 ft.

Depth (ft.)
Sample



BROWN SILTY SAND (SM) (10YR 4/3)
Loose, dry, 80% fine to coarse sand, 20%
silt

BROWN WELL GRADED SAND (SW)
(10YR 4/3) Loose, dry, 90% fine to coarse
sand, 10% silt

YELLOWISH BROWN POORLY GRADED
SAND (SP) (10YR 5/6) Loose, dry, 90% fine
to medium sand, 10% silt

@ 10 ft.: Similar to above

@ 11 ft.: 90% fine to coarse sand, 10% silt

YELLOWISH BROWN POORLY GRADED
SAND (SP) (10YR 5/6) Loose, dry, 95% fine
to medium sand, 5% silt

@ 20 ft.: Similar to above

@ 25 ft.: Similar to above

DARK YELLOWISH BROWN WELL
GRADED SAND (SW) (10YR 4/4) Loose,
dry, 90% fine to coarse sand, 10% silt

BOREHOLE WELL OUCTP OUCTP V6 GPJ FTO OUCTP GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MP-BW-48
OUCTP

PLATE

Fort Ord, California

A12

DRAWN
MBP

JOB NUMBER
55596 001701

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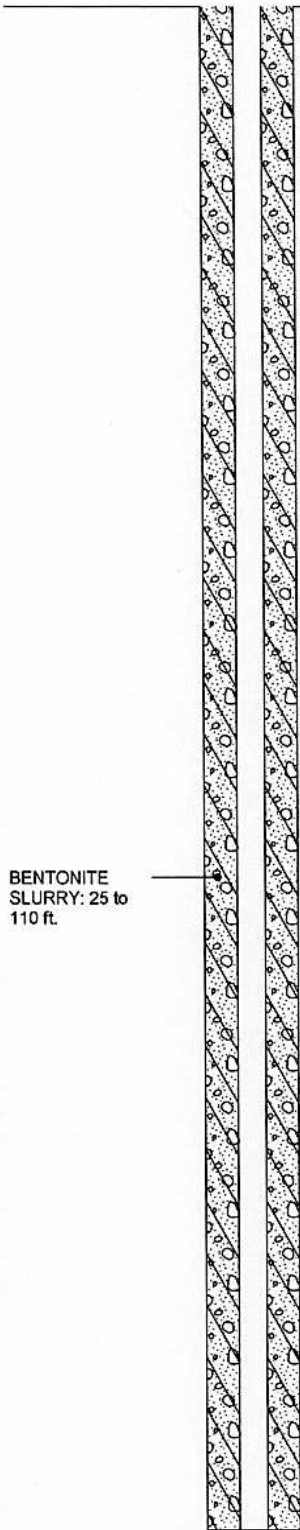
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DATE
11/04

REVISED DATE

Completion Date 2/11/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 195.63 ft. Hole Dia. 7 in.
 Northing 2138142.6 Easting 5748217.08

Depth (ft.)
 Sample



35
40
45
50
55
60
65
70

@ 35 ft.: Similar to above
 BROWNISH YELLOW POORLY GRADED SAND (SP) (10YR 6/6) Loose, dry, 90% fine to coarse sand, 10% silt
 @ 40 ft.: Similar to above
 @ 45 ft.: Similar to above
 @ 50 ft.: Similar to above
 @ 55 ft.: Similar to above
 @ 58 ft.: Change to YELLOWISH BROWN (10YR 5/6)
 YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 5/6) Loose, moist, 90% fine to coarse sand, 10% silt
 YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 5/6) Loose, moist, 95% fine to medium sand, 5% silt
 @ 68 ft.: Change to BROWNISH YELLOW (10YR 6/6)

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MP-BW-48
 OUCTP

Fort Ord, California

PLATE

A12

DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED

MDT / am

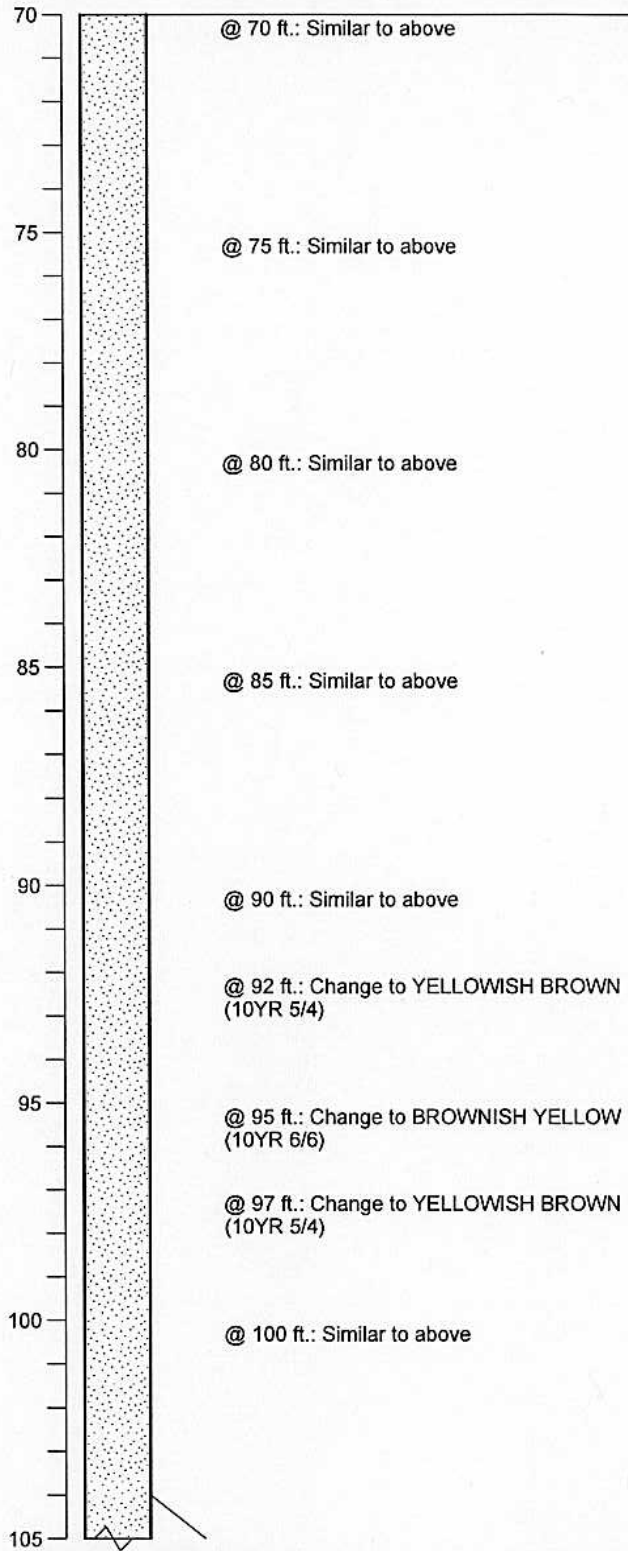
DATE
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REVISED DATE

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Completion Date 2/11/2003
Drilling Method Sonic
Logged by D. Browne
Surface Elevation 195.63 ft. Hole Dia. 7 in.
Northing 2138142.6 Easting 5748217.08

Depth (ft.)
Sample



MACTEC

Well Construction Details and
Log of Boring MP-BW-48
OUCTP

Fort Ord, California

PLATE

A12

DRAWN
MBP

JOB NUMBER
55596 001701

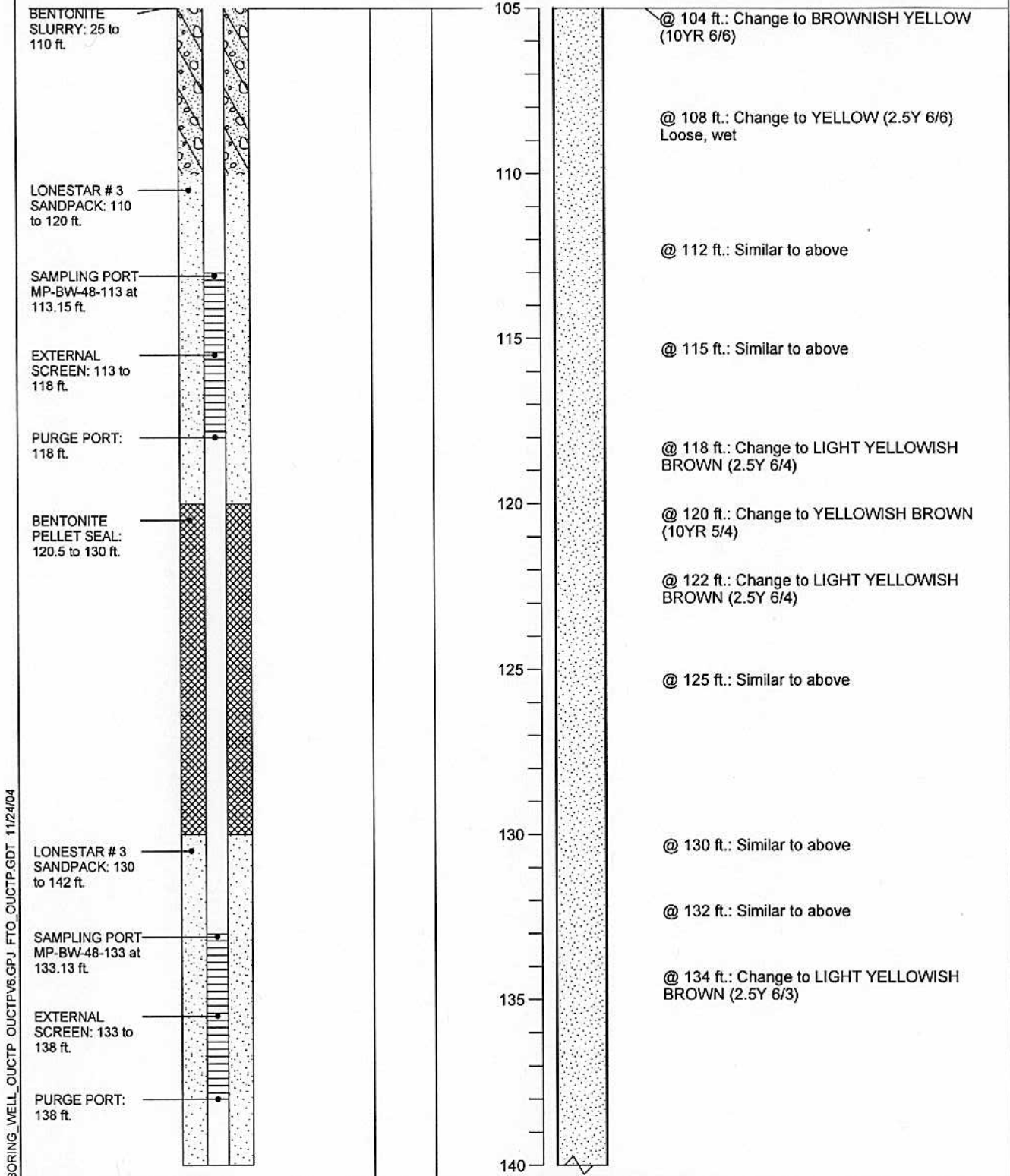
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MBP/can

DATE
11/04

REVISED DATE

Completion Date 2/11/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 195.63 ft. Hole Dia. 7 in.
 Northing 2138142.6 Easting 5748217.08



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MP-BW-48
 OUCTP

Fort Ord, California

PLATE

A12

DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED

[Signature]

DATE
 11/04

REVISED DATE

Completion Date 2/11/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 195.63 ft. Hole Dia. 7 in.

Northing 2138142.6 Easting 5748217.08

Depth (ft.)
Sample

BENTONITE
PELLET SEAL:
142 to 211 ft.

BENTONITE
PELLET SEAL:
142 to 211 ft.

140
145
150
155
160
165
170
175

@ 140 ft.: Similar to above

OLIVE GRAY FAT CLAY (CH), Stiff, moist,
80% clay, 10% fine sand oxidized to
BROWN (7.5YR 4/4) 10% silt

@ 144 ft.: 80% clay, 20% silt

@ 148 ft.: Change to OLIVE GRAY (5Y 5/2)
Very stiff, dry

@ 150 ft.: Similar to above

@ 152 ft.: Change to Trace shell fragments

@ 155 ft.: Change to DARK GREENISH
GRAY FAT CLAY (5GY 4/1) Trace shell
fragments

DARK GREENISH GRAY POORLY
GRADED SAND (SP) (5GY 4/1) Loose, wet,
90% fine to medium sand, 10% silt

DARK GREENISH GRAY FAT CLAY (CH)
(5GY 4/1) Very stiff, dry, 90% clay, 10% silt

@ 162 ft.: Change to LIGHT OLIVE
BROWN FAT CLAY (2.5Y 5/3)

@ 165 ft.: Similar to above

LIGHT OLIVE BROWN SILTY SAND (SM)
(2.5Y 5/3) Medium dense, moist, 75% fine
sand, 25% silt

LIGHT OLIVE BROWN POORLY GRADED
SAND (SP) (2.5Y 5/3) Loose, wet, 90% fine
sand, 10% silt, Trace micas in gold flecks

LIGHT OLIVE BROWN SILT (ML) (2.5Y
5/3) Soft, moist, 90% silt, 10% fine sand

BORING WELL_OUCTP_OUCTPV&GPJ_FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MP-BW-48

OUCTP

Fort Ord, California

PLATE

A12

DRAWN
MBP

JOB NUMBER
55596 001701

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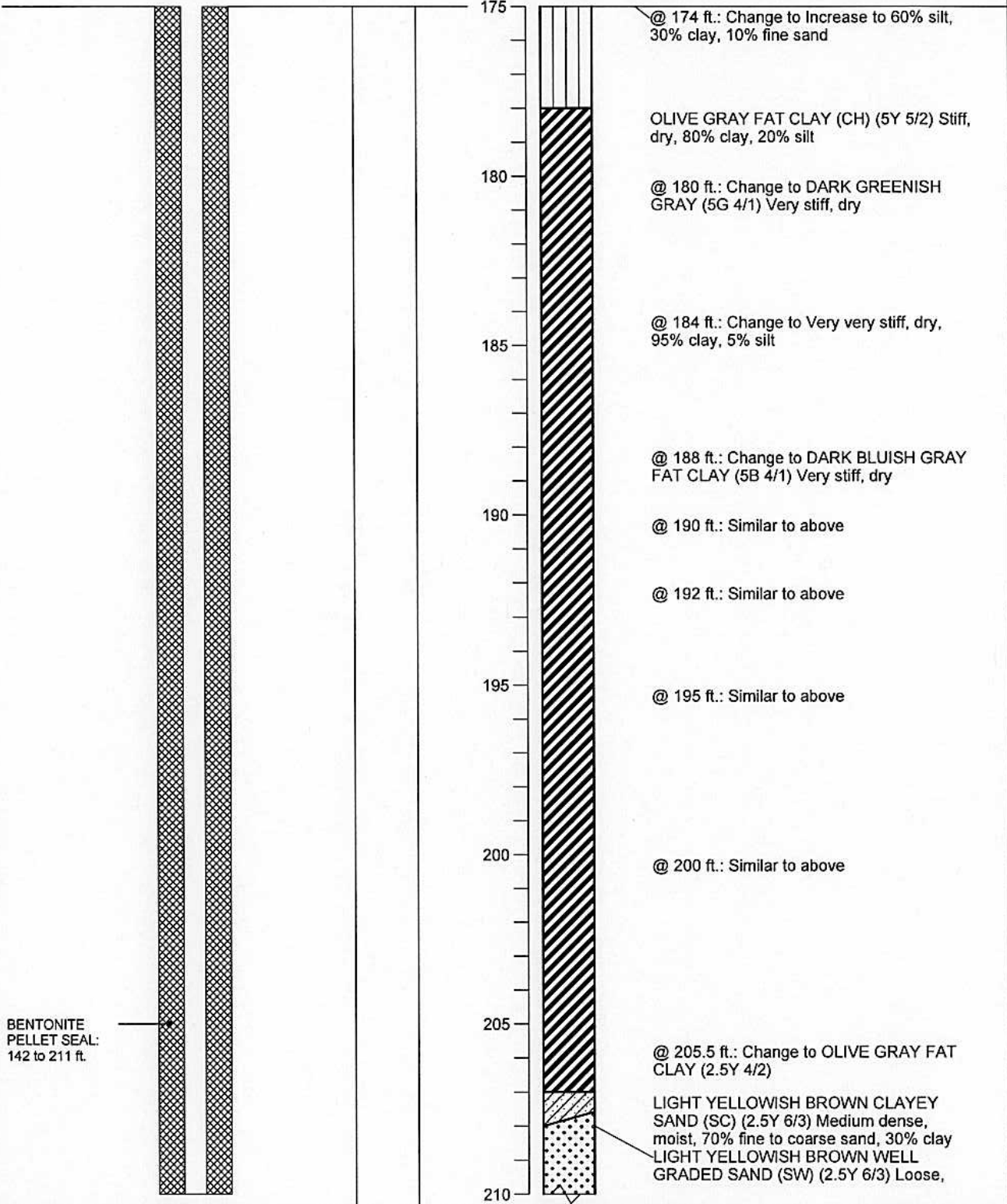
MDT / cm

DATE
11/04

REVISED DATE

Completion Date 2/11/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 195.63 ft. Hole Dia. 7 in.
 Northing 2138142.6 Easting 5748217.08

Depth (ft.)
 Sample



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MP-BW-48
 OUCTP

Fort Ord, California

PLATE

A12

DRAWN
 MBP

JOB NUMBER
 55596 001701

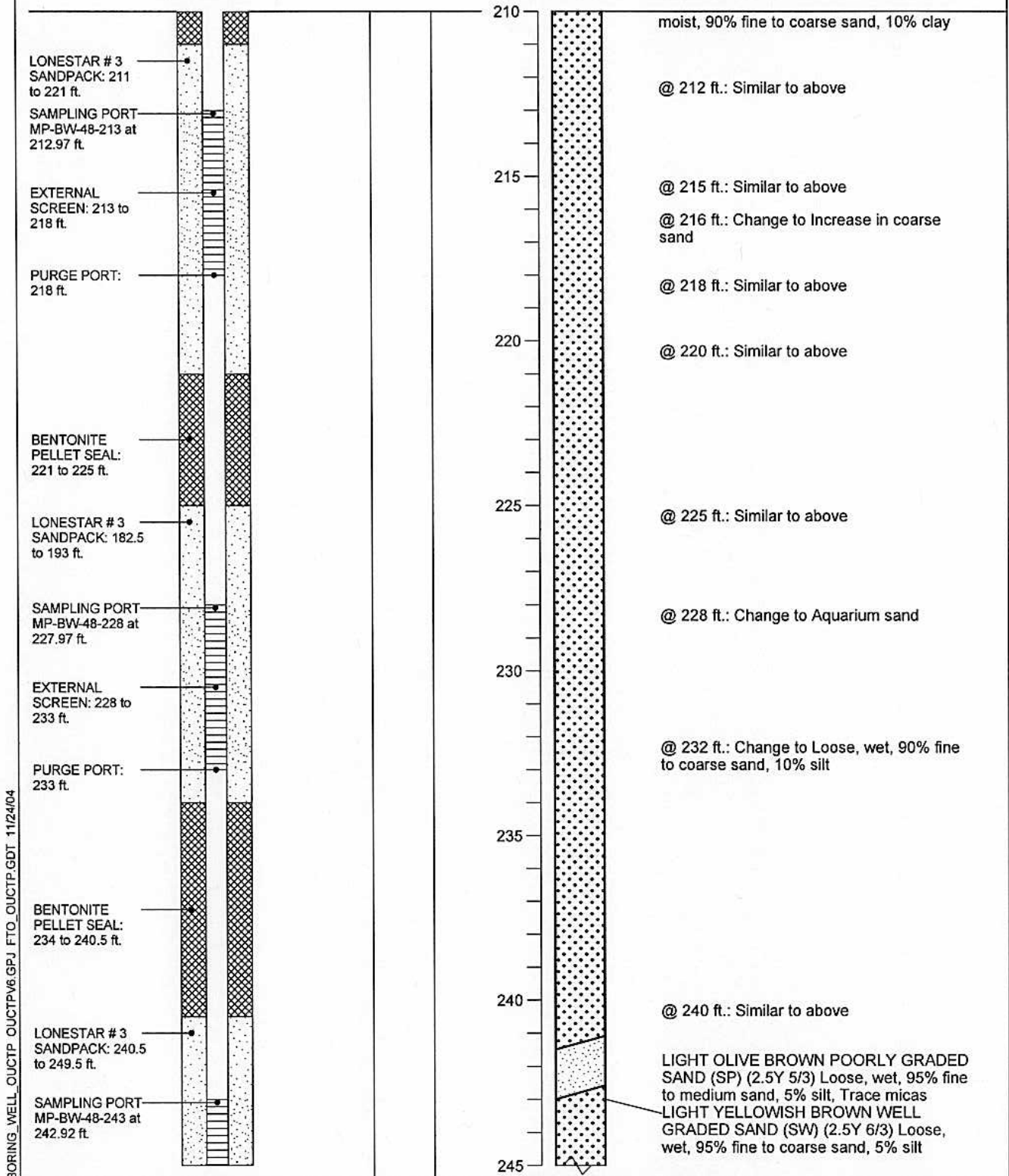
APPROVED

MDT / cm

DATE
 11/04

REVISED DATE

Completion Date 2/11/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 195.63 ft. Hole Dia. 7 in.
 Northing 2138142.6 Easting 5748217.08



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

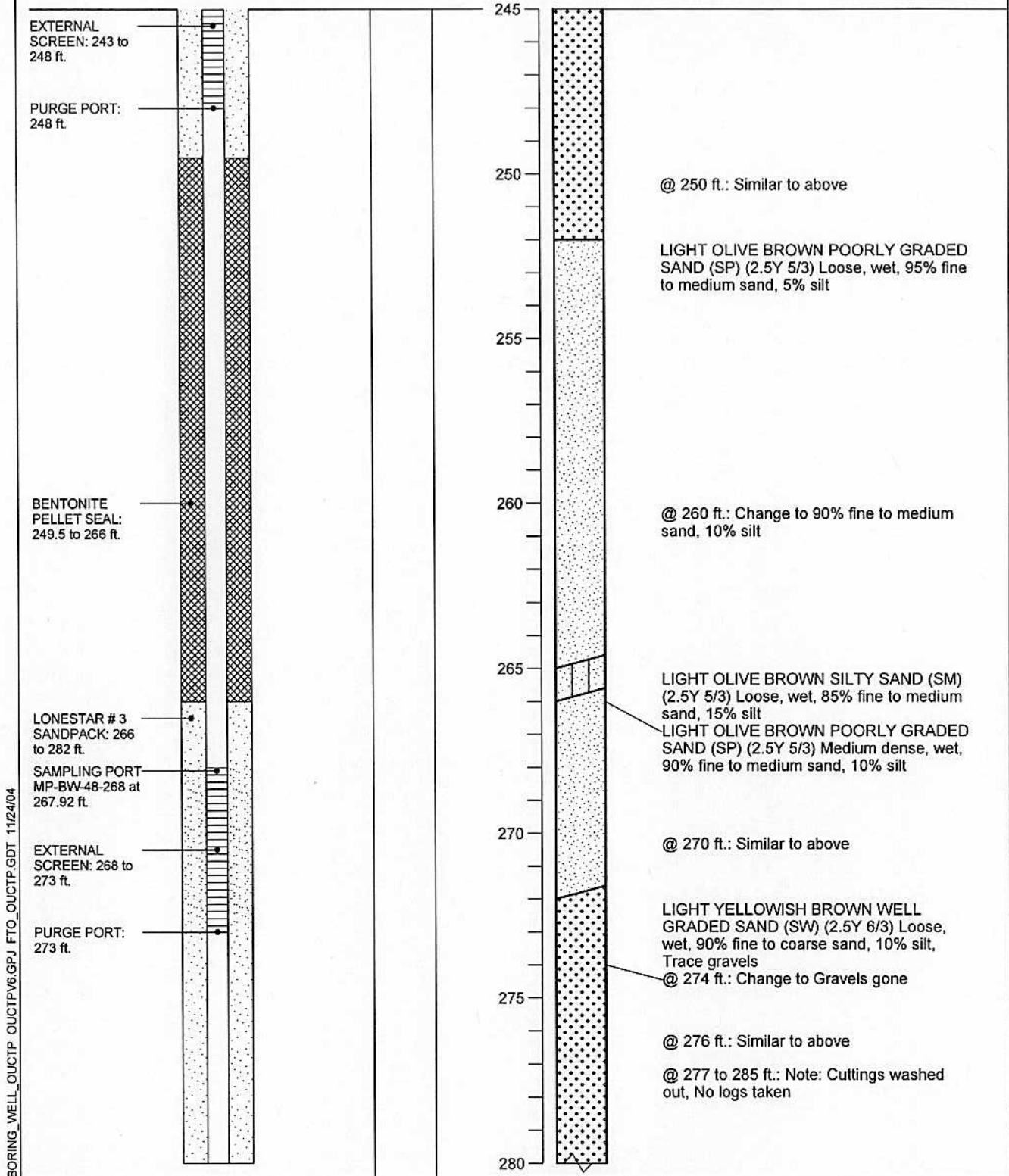
Well Construction Details and Log of Boring MP-BW-48
 OUCTP

PLATE

A12

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT/can</i>	11/04	

Completion Date 2/11/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 195.63 ft. Hole Dia. 7 in.
 Northing 2138142.6 Easting 5748217.08



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and Log of Boring MP-BW-48
 OUCTP

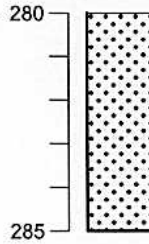
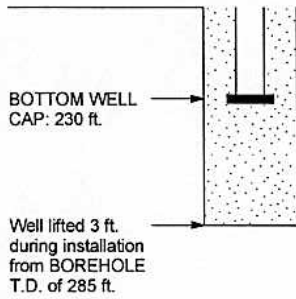
PLATE

A12

DRAWN MBP	JOB NUMBER 55596 001701	APPROVED <i>MDT / car</i>	DATE 11/04	REVISED DATE
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Completion Date 2/11/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 195.63 ft. Hole Dia. 7 in.
 Northing 2138142.6 Easting 5748217.08

Depth (ft.)
 Sample



Bottom of boring @ 285 ft.

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

**Well Construction Details and
 Log of Boring MP-BW-48**
 OUCTP

Fort Ord, California

PLATE

A12

DRAWN
 MBP

JOB NUMBER
 55596 001701

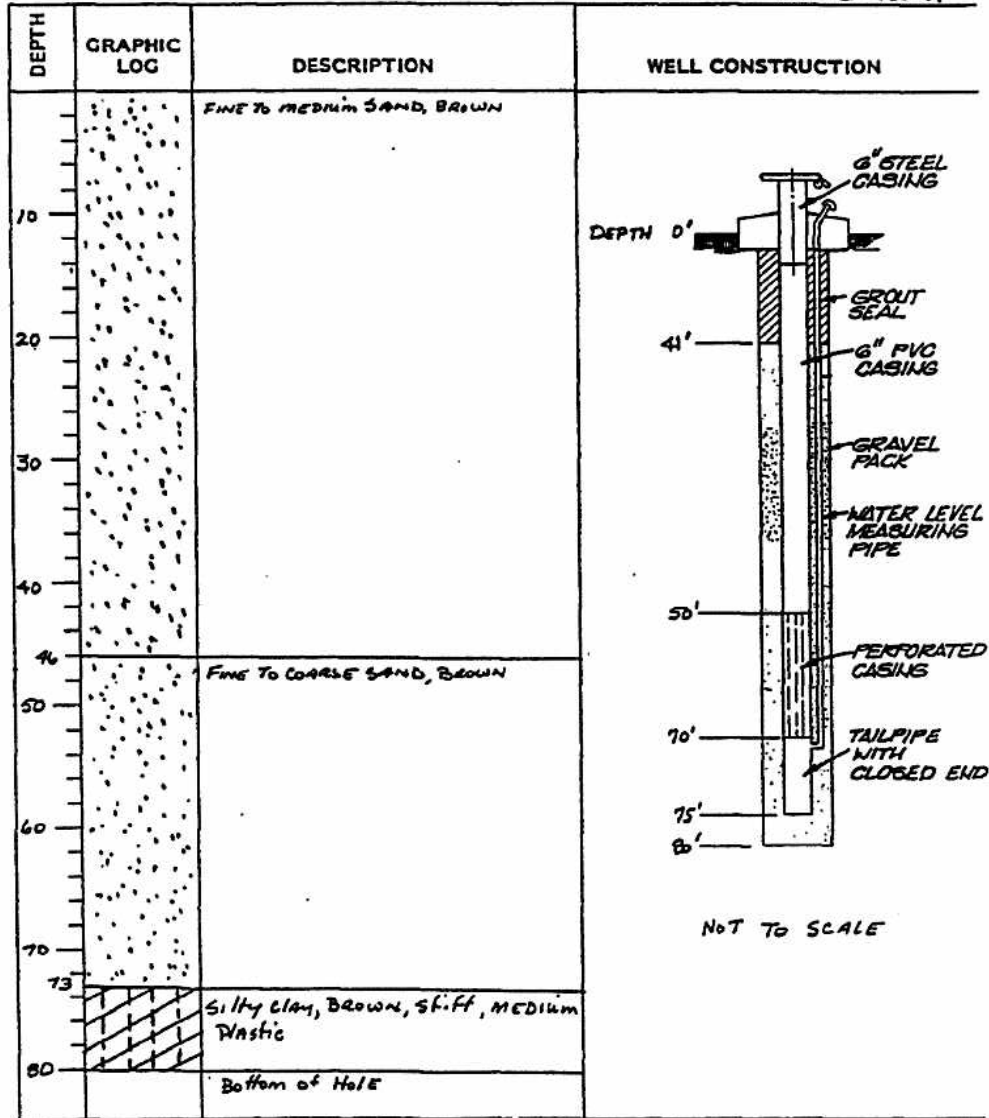
APPROVED

MDT/can

DATE
 11/04

REVISED DATE

CLIENT FORT ORD LOCATION FRITSCH AIRFIELD ELEVATION R.P. 98.92
 PROJECT NO. M1005.81 BORING NO. AS-9 WATER LEVEL ELEV. 40.36
 DRILLER Jim ALLEN GEOLOGIST Alex Tula (TIME DATE) 1/19/77
 BEGUN 0830 12/11/76 COMPLETED 1130 (TIME DATE) 12/11/76 TOTAL DEPTH 80 ft
MW-B-12-A



AS-9



Well Construction Details and
 Log of Boring MW-B-12-A
 Carbon Tetrachloride
 RI/FS
 Fort Ord, California

PLATE

A13

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED
not / cm

DATE
12/04

REVISED DATE

Page 1 of 3

MONITORING WELL:

JOB NAME: _____

JOB NUMBER: _____

DATE COMPLETED: _____

GRILLING METHOD: _____

SURFACE ELEVATION: _____

TOP OF PVC WELL: _____

L-30-180

FORT ORD LANDFILLS

13848-007-043

2/11/92

MUD ROTARY

SAMPLING			SYMBOLS	DESCRIPTION
SAMPLER TYPE	BLOWS PER FOOT	OVM (gpm)		
U	3	HL		<p>DARK BROWN SAND, with sil. fine (0.25-0.5 mm) grains, poorly sorted, subrounded, with 10.5-2.0 mm roots, high soil organic matter, moist, predominantly quartz grains, very loose.</p> <p>Color change to brown silty fine sand (0.25-0.5 mm) grains.</p>
U	10 1/2"	0		<p>BROWNISH YELLOW CLAYEY SAND, fine (0.25-0.5 mm) grains, subrounded, moist, with 12.0-3.0 mm roots of brownish yellow clayey fine sand that is finer than matrix, quartz with trace feldspar and mafics, clay coats sand grains, very dense.</p> <p>Fine sand, subangular (0.25-0.5 mm) grains, quartz, trace feldspar and mafics.</p>
U	-	0		<p>BROWN SAND, fine and medium (0.5-1.0 mm) grains, poorly sorted, subrounded, quartz, trace feldspar and mafics, moist, loose.</p> <p>Note: Formation sand is absorbing some of the drilling mud.</p> <p>Increase in fine sand (0.5 mm).</p>
U	-	0		<p>Color change to yellowish brown.</p>

WELL LOG

James & Moore



MACTEC

**Well Construction Details and
Log of Boring MW-0U2-30-180**
OUCTP
RI/FS
Fort Ord, California

PLATE

A14

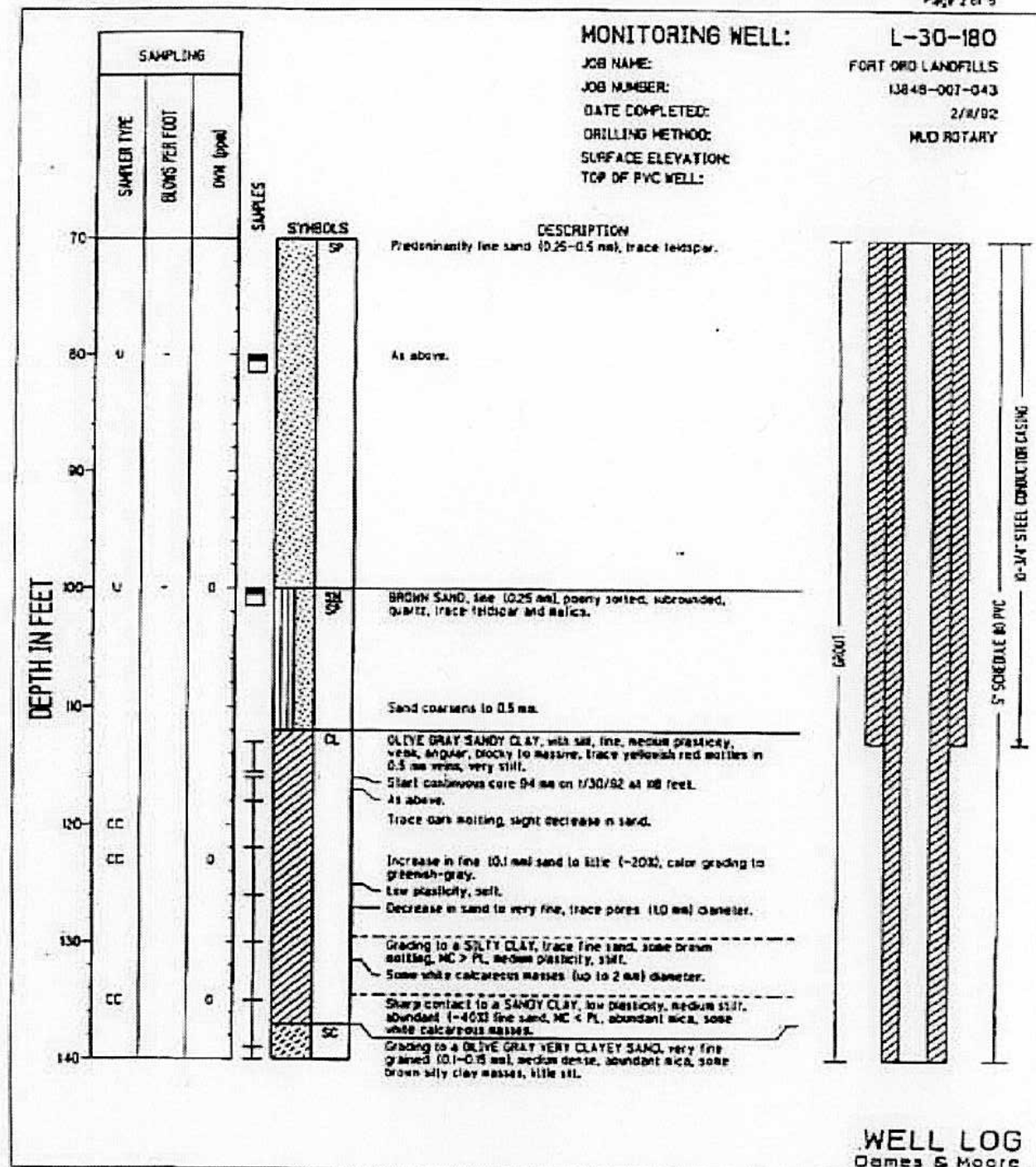
DRAWN
JFT

JOB NUMBER
55596 00171

APPROVED
MDT / am

DATE
1/05

REVISÉD DATE



Well Construction Details and
 Log of Boring MW-0U2-30-180
 OUCTP
 RI/FS
 Fort Ord, California

PLATE

A14

DRAWN
JFT

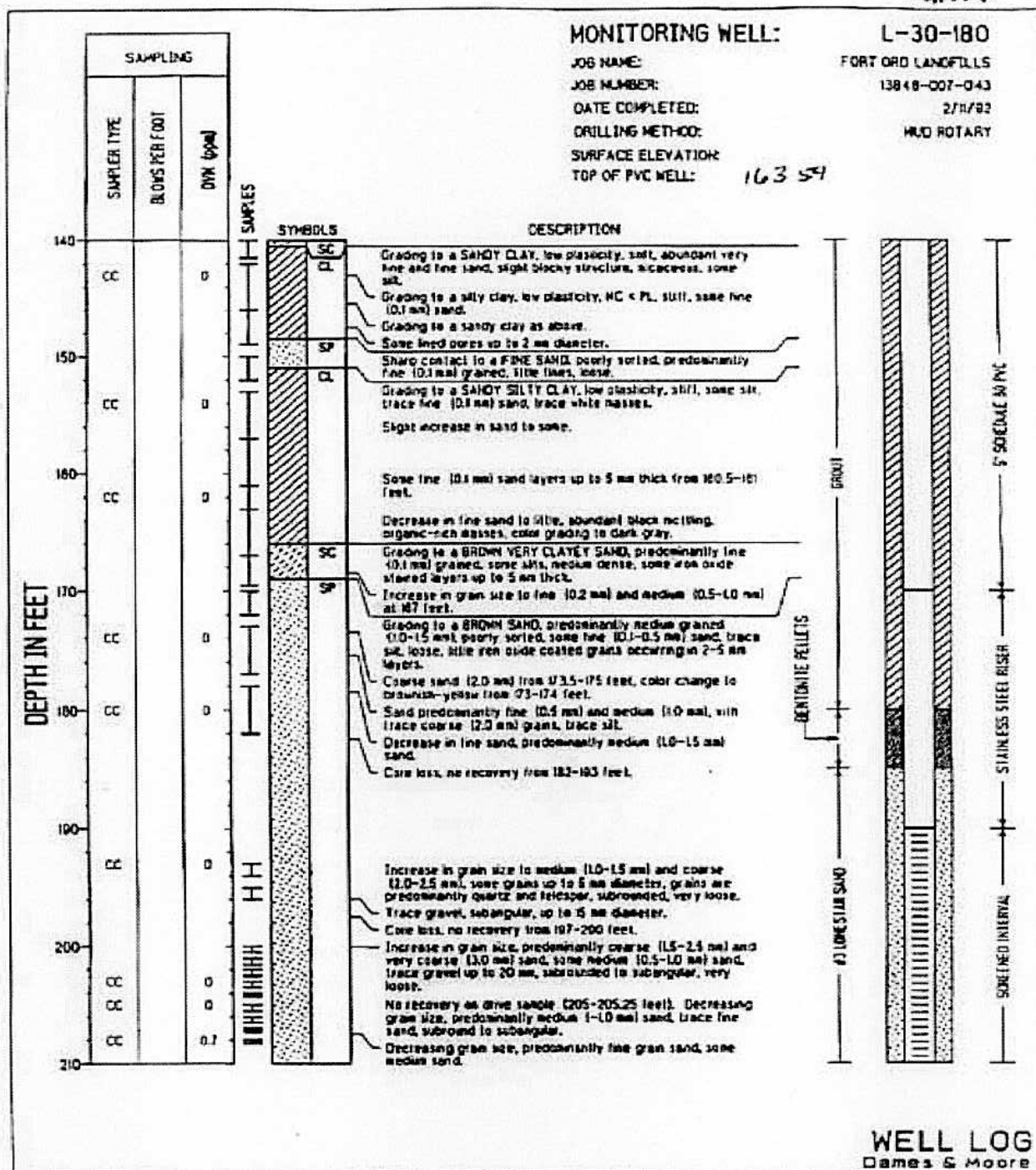
JOB NUMBER
55596 00171

APPROVED

[Signature]

DATE
1/05

REVISED DATE



Well Construction Details and
 Log of Boring MW-0U2-30-180
 OUCTP
 RI/FS
 Fort Ord, California

PLATE

A14

DRAWN
JFT

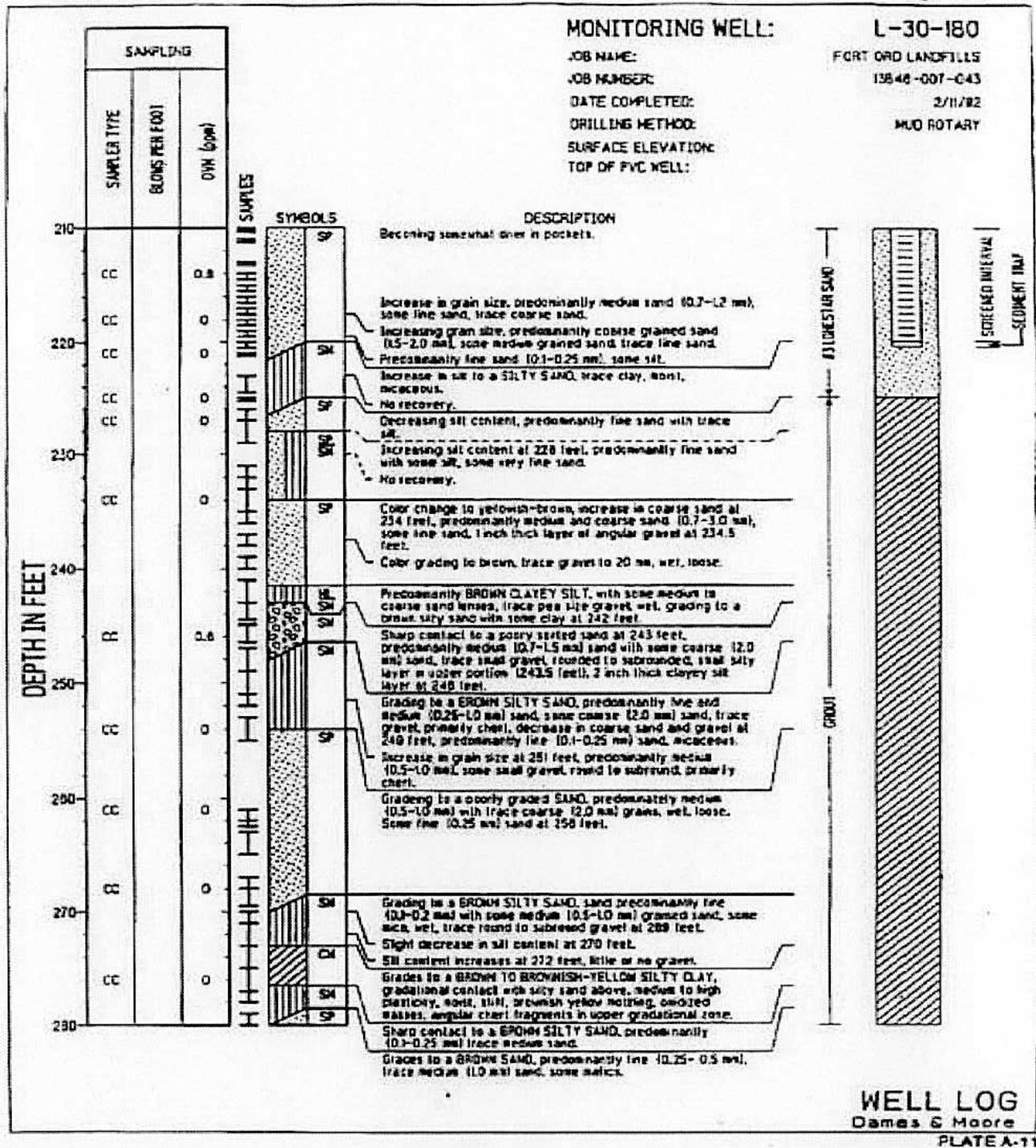
JOB NUMBER
55596 00171

APPROVED

MDT / can

DATE
1/05

REVISED DATE



MACTEC
 Well Construction Details and
 Log of Boring MW-0U2-30-180
 OUCTP
 RI/FS
 Fort Ord, California

PLATE

A14

DRAWN
JFT

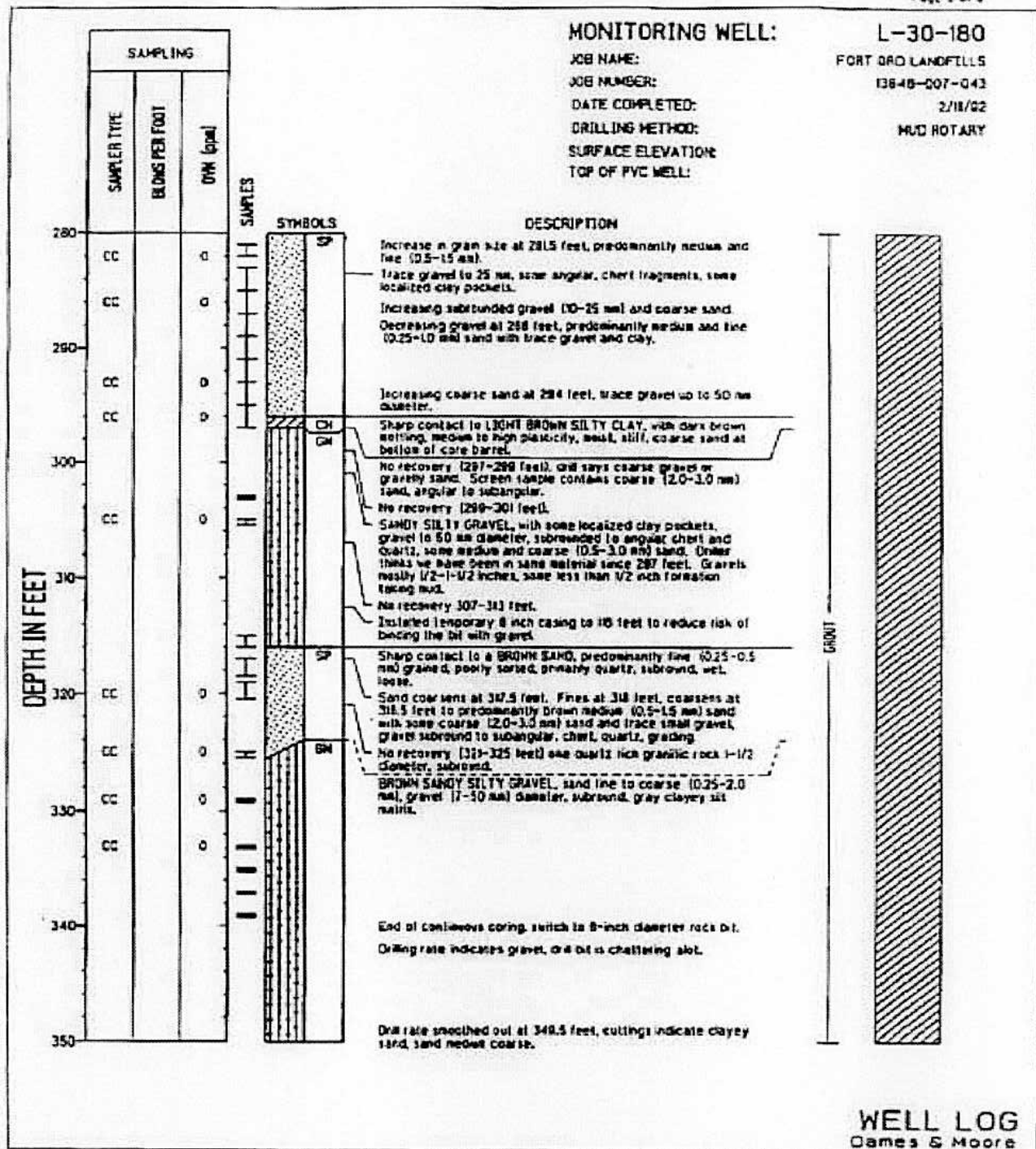
JOB NUMBER
55596 00171

APPROVED
MDT / can

DATE
1/05

REVISED DATE

Page 4 of 6



Well Construction Details and
Log of Boring MW-0U2-30-180
OUCTP
RI/FS
Fort Ord, California

PLATE

A14

DRAWN
JFT

JOB NUMBER
55596 00171

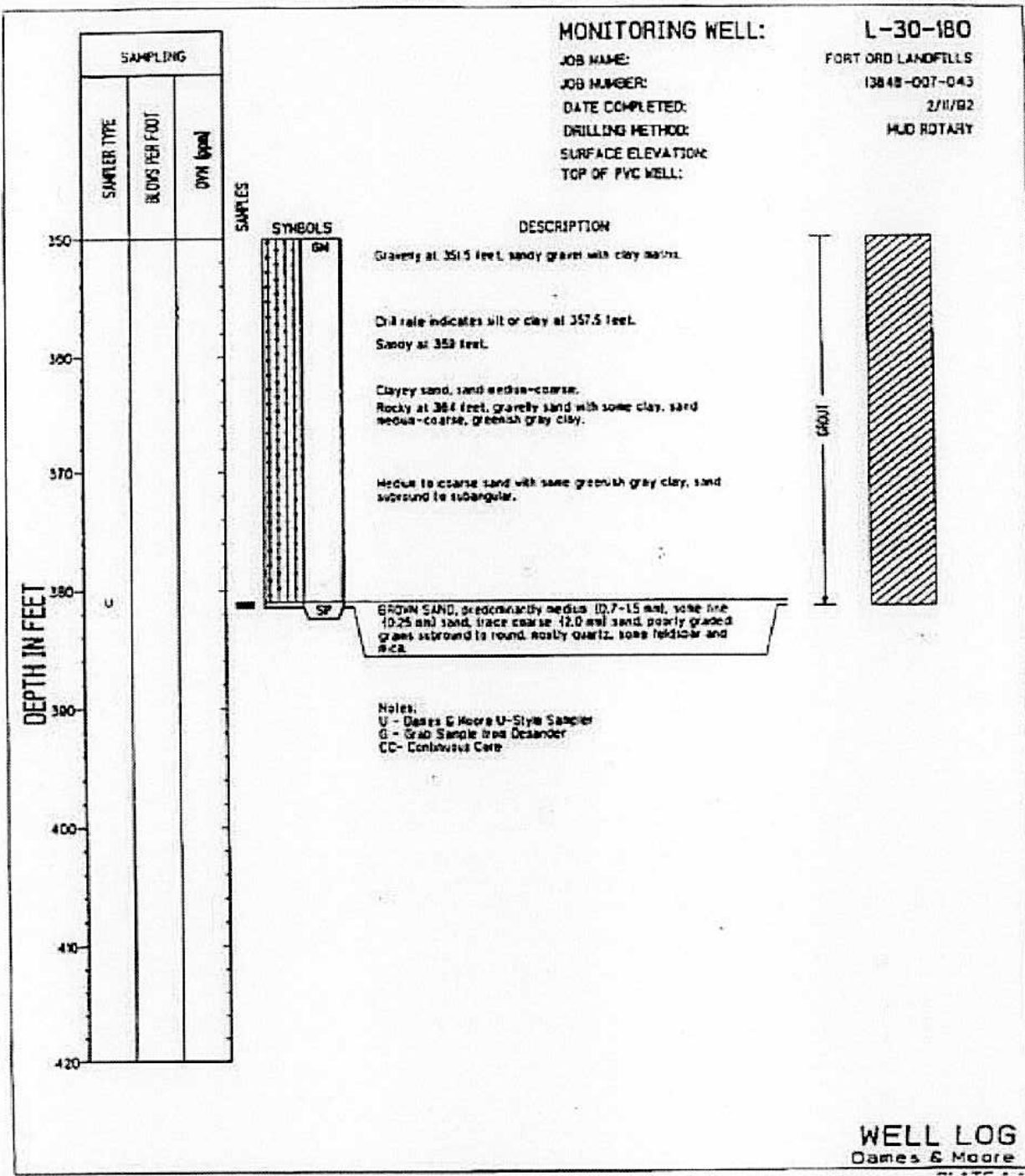
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DATE
1/05

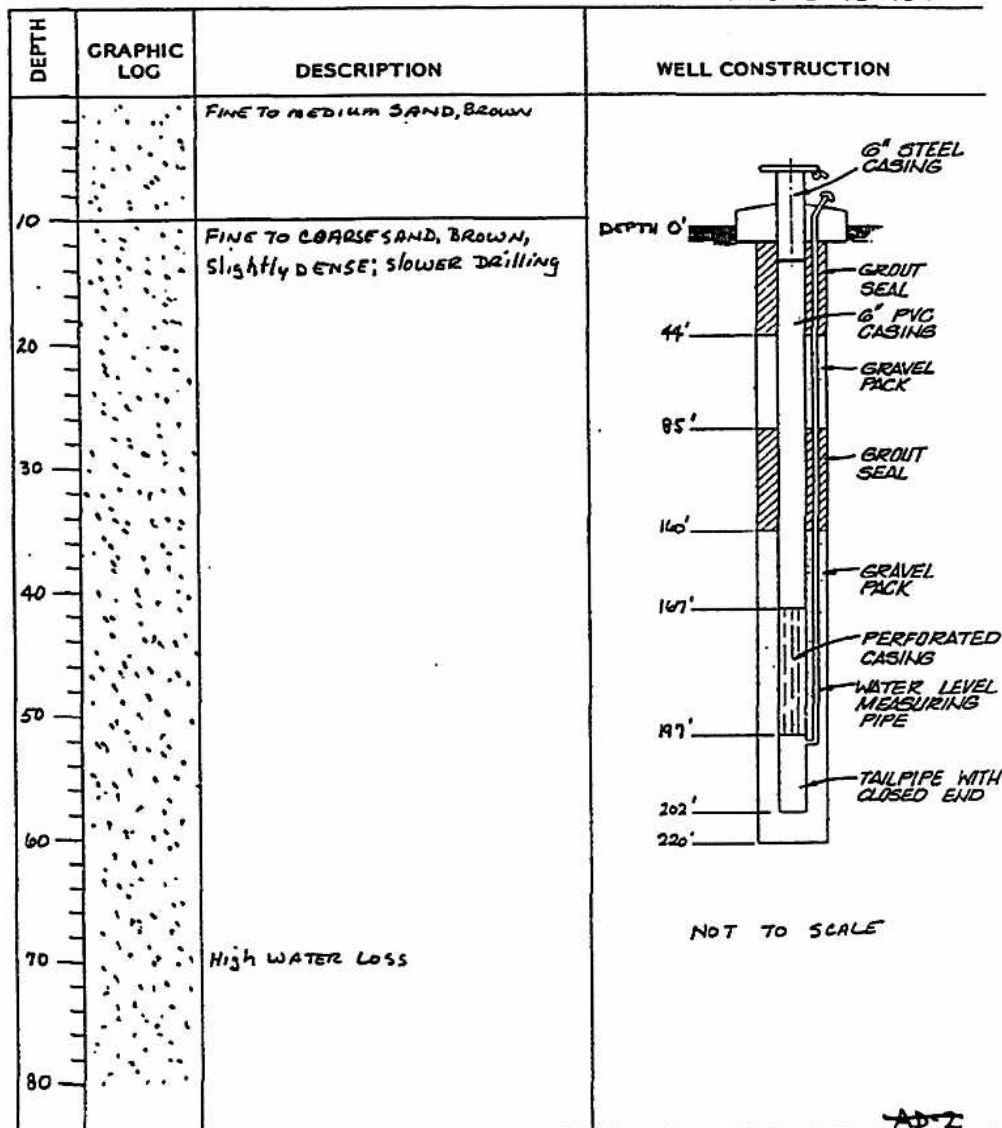
REVISED DATE

Page 5 of 6



DRILLING LOG

CLIENT FORT ORD LOCATION FAITSCHE AIRFIELD ELEVATION R.P. 143.36
 PROJECT NO M1005.B1 BORING NO AD-2 WATER LEVEL LEV. 10.3
 DRILLER Jim ALLEN GEOLOGIST ALEX. TUIA (TIME DATE) 4/14/77
 BEGUN 0815 12/6/76 COMPLETED 1730 (TIME DATE) 12/6/76 TOTAL DEPTH 220 ft.
MW-B-13-180



Well Construction Details and
 Log of Boring MW-B-13-180
 Carbon Tetrachloride
 RI/FS
 Fort Ord, California

PLATE

A15

DRAWN
MBP

JOB NUMBER
55596 00171

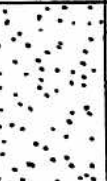



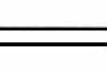

APPROVED
MBT / cm

DATE
12/04

REVISED DATE

DRILLING LOG

CLIENT FORT ORD LOCATION FRITSCH AIRFIELD ELEVATION R.P. 143.86
 PROJECT NO. M1105.81 BORING NO. AD-2 WATER LEVEL ELEV 10.39
 DRILLER Jim ALLEN GEOLOGIST ALEX TULA (TIME DATE) 4/14/77
 BEGUN 0815 12/6/76 COMPLETED 1730 (TIME/DATE) 12/6/76 TOTAL DEPTH 220ft
MW-B-G-180

DEPTH	GRAPHIC LOG	DESCRIPTION	WELL CONSTRUCTION
90		FINE TO COARSE SAND, BROWN, slightly DENSE; slower drilling.	
95		CLAY, GRAY, STIFF, DENSE; slow drilling	
100			
110			
120			
130			
135		CLAYEY SAND, BROWNISH GRAY, slightly DENSE	
140			
145		CLAY, GRAY, STIFF, DENSE	
150			
154		COARSE SAND, BROWN, slightly DENSE	
157			
160		CLAY, GRAY, STIFF, DENSE	

AD-2



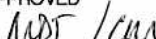
Well Construction Details and
 Log of Boring MW-B-13-180
 Carbon Tetrachloride
 RI/FS
 Fort Ord, California

PLATE

A15

DRAWN
 MBP

JOB NUMBER
 55596 00171




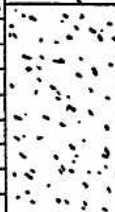
APPROVED


DATE
 12/04

REVISED DATE

DRILLING LOG

CLIENT FORT ORD LOCATION FRITSCHE AIRFIELD ELEVATION R.P. 193.82
 PROJECT NO. M1005.B1 BORING NO. AD-2 WATER LEVEL LEV. 10.3
 DRILLER Jim ALLEN GEOLOGIST ALEX TUIA (TIME DATE) 4/19/77
 BEGUN 0815 12/6/76 COMPLETED 1730 (TIME DATE) 12/6/76 TOTAL DEPTH 226 ft.
MW-B-13-180

DEPTH	GRAPHIC LOG	DESCRIPTION	WELL CONSTRUCTION
170		CLAY, GRAY, ST. FT., DENSE	
170 180		SILTY SAND, BROWNISH GRAY, SLIGHTLY DENSE	
190 192		COARSE TO MEDIUM SAND, BROWN; EASY DRILLING.	
200 203		FINE TO MEDIUM SAND, BROWN, SLIGHTLY DENSE.	
210 220 230		Bottom of Hole NOTE: 12/7/76 Hole Sloughed to 200 ft., REDRILLED TO 230 ft. Sloughed Again To 204 ft.	

AD-2



Well Construction Details and
 Log of Boring MW-B-13-180
 Carbon Tetrachloride
 RI/FS
 Fort Ord, California

PLATE

A15

DRAWN
MBP

JOB NUMBER
55596 00171

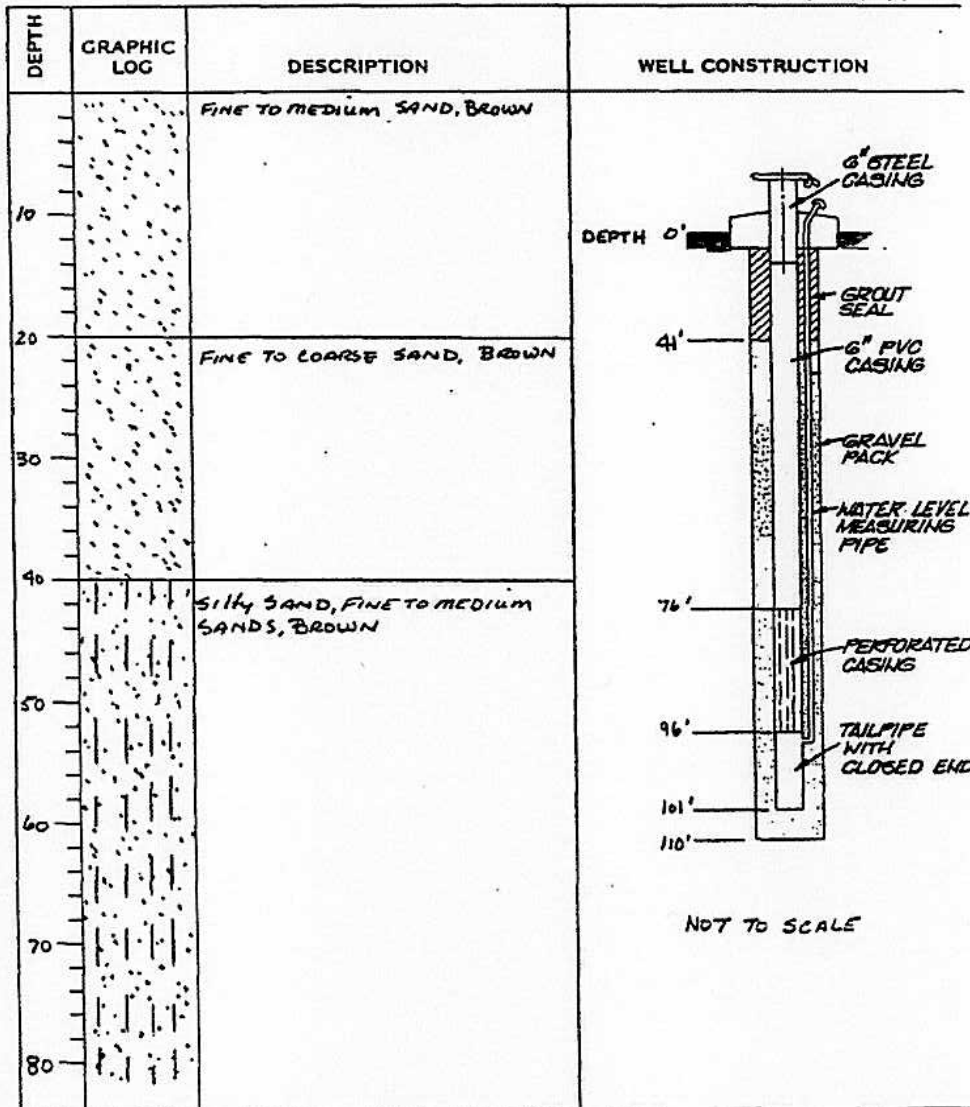
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DATE
12/04

REVISED DATE

DRILLING LOG

CLIENT FORT ORD LOCATION FRITSCH AIRFIELD ELEVATION R.P. 199.37
 PROJECT NO. M1005.B1 BORING NO. AS-B WATER LEVEL ELEV. 61.77
 DRILLER Jim ALLEN GEOLOGIST ALEX. TWA (TIME DATE) 4/19/77
 BEGUN 1400 12/9/76 COMPLETED 1630 (TIME DATE) 12/9/76 TOTAL DEPTH 16 ft
MW-B-14-A



AS-8



Well Construction Details and
 Log of Boring MW-B-14-A
 Carbon Tetrachloride
 RI/FS
 Fort Ord, California

PLATE

A16

DRAWN
MBP



JOB NUMBER
55596 00171

APPROVED
MDJ/cm

DATE
12/04

REVISED DATE

CLIENT FORT ORD LOCATION FRITSCH AIRFIELD ELEVATION R.P. 144.37
PROJECT NO M1005181 BORING NO. AS-B WATER LEVEL ELEV 51.77
DRILLER Jim ALLEN GEOLOGIST ALEX TULLO (TIME DATE) 4/14/77
BEGUN 1400 12/9/76 COMPLETED 1630 (TIME DATE) 12/9/76 TOTAL DEPTH 16 ft.
MW-B-14-A

DEPTH	GRAPHIC LOG	DESCRIPTION	WELL CONSTRUCTION
90		SILTY SAND, SANDS ARE FINE TO MEDIUM, BROWN	
97 100		CLAY, GRAY, STIFF	
110		Bottom of Hole	

AS-8

~~A5-8~~



PLATE

A16

REVISÉD DATE

Top of PVC Casing
Elev. 148.88 ft.

GROUND SURFACE
Top of casing at
1.5 ft. above
ground level

5 in. DIAMETER
SCHEDULE 40
PVC BLANK
CASING: +1.5 to
76.5 ft.

10 in. DIAMETER
BOREHOLE: 0 to
108 ft.

BENTONITE-
CEMENT SEAL: 0
to 67 ft.

Completion Date 8/5/1998

Drilling Method ARCH/mud rotary

Logged by _____

Surface Elevation 147.41 Hole Dia. 10 in.

Northing 2140967.3447 Easting 5747954.0859

Depth (ft.)
Sample

0
5
10
15
20
25
30
35
40
45
50
55
60

VERY DARK GRAYISH BROWN POORLY
GRADED SAND WITH SILT (SW) (10YR
3/2) Loose, dry, 90% fine to coarse sand,
10% silt, Trace roots

@ 5 ft.: Change to DARK YELLOWISH
BROWN (10YR 4/4) 95% fine to coarse
sand, 5% silt

@ 8 ft.: Change to YELLOWISH BROWN
(10YR 5/4) 100% fine to coarse sand

@ 20 ft.: Change to Decrease in coarse
sand to 20%

@ 30 ft.: Change to DARK YELLOWISH
BROWN (10YR 4/6) Dry to moist, Increase
in coarse sand to 30%

@ 45 ft.: Change to Moist

YELLOWISH BROWN WELL GRADED
SAND (SW) (10YR 5/6) Loose, Dry to moist,
100% fine to medium sand

BORING_WELL_OUCTP_OUCTPV&GPJ_FTO_OUCTP.GDT 1/17/05



MACTEC

Well Construction Details and
Log of Boring MW-BW-15-A

OUCTP

Fort Ord, California

PLATE

A17

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED

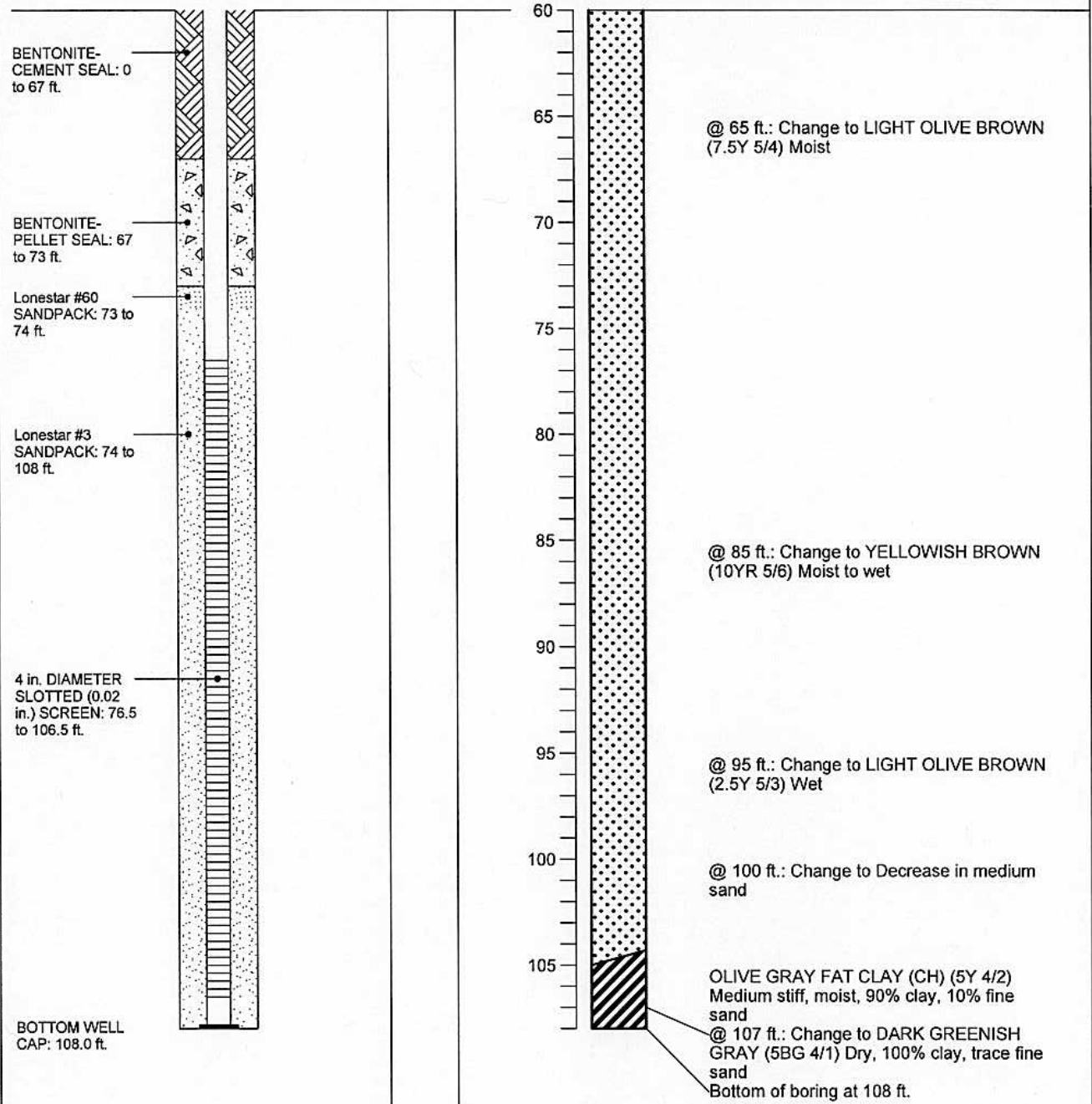
MDT / am

DATE
1/05

REVISED DATE

Completion Date 8/5/1998
 Drilling Method ARCH/mud rotary
 Logged by _____
 Surface Elevation 147.41 Hole Dia. 10 in.
 Northing 2140967.3447 Easting 5747954.0859

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 1/17/05



Top of PVC Casing
Elev. 135.61 ft.

GROUND SURFACE
Top of casing at
2.7 ft. above
ground level

5 in. DIAMETER
SCHEDULE 40
PVC BLANK
CASING: +1.5 to
66 ft.

10 in. DIAMETER
BOREHOLE: 0 to
97 ft.

BENTONITE-
CEMENT SEAL: 0
to 57 ft.

Completion Date 8/6/1998

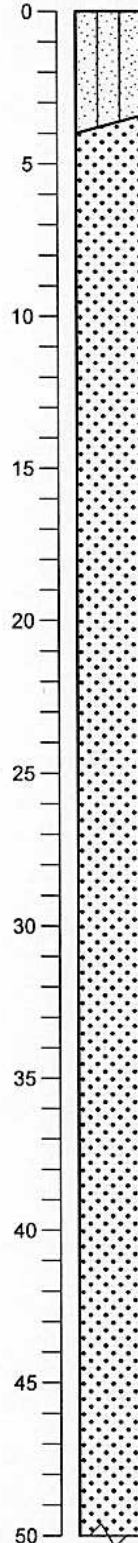
Drilling Method ARCH/mud rotary

Logged by _____

Surface Elevation 132.94 Hole Dia. 10 in.

Northing 2140631.4149 Easting 5749294.1578

Depth (ft.)
Sample



BROWN SILTY SAND (SM) (10YR 4/3)
Loose, dry, 85% fine to coarse sand, 15%
silt

DARK BROWN WELL GRADED SAND
(SW) (10YR 3/3) Loose, dry, 95% fine to
coarse sand, 5% silt

@ 7 ft.: Change to BROWN (10YR 5/3)

@ 10 ft.: Change to YELLOWISH BROWN
(10YR 5/4) 100% fine to coarse sand

@ 15 ft.: Change to BROWNISH YELLOW
(10YR 6/6)

@ 25 ft.: Change to DARK YELLOWISH
BROWN (10YR 4/4) Moist

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/17/05



MACTEC

Well Construction Details and
Log of Boring MW-BW-16-A
OUCTP

Fort Ord, California

PLATE

A18

DRAWN
MBP

JOB NUMBER
55596 001701

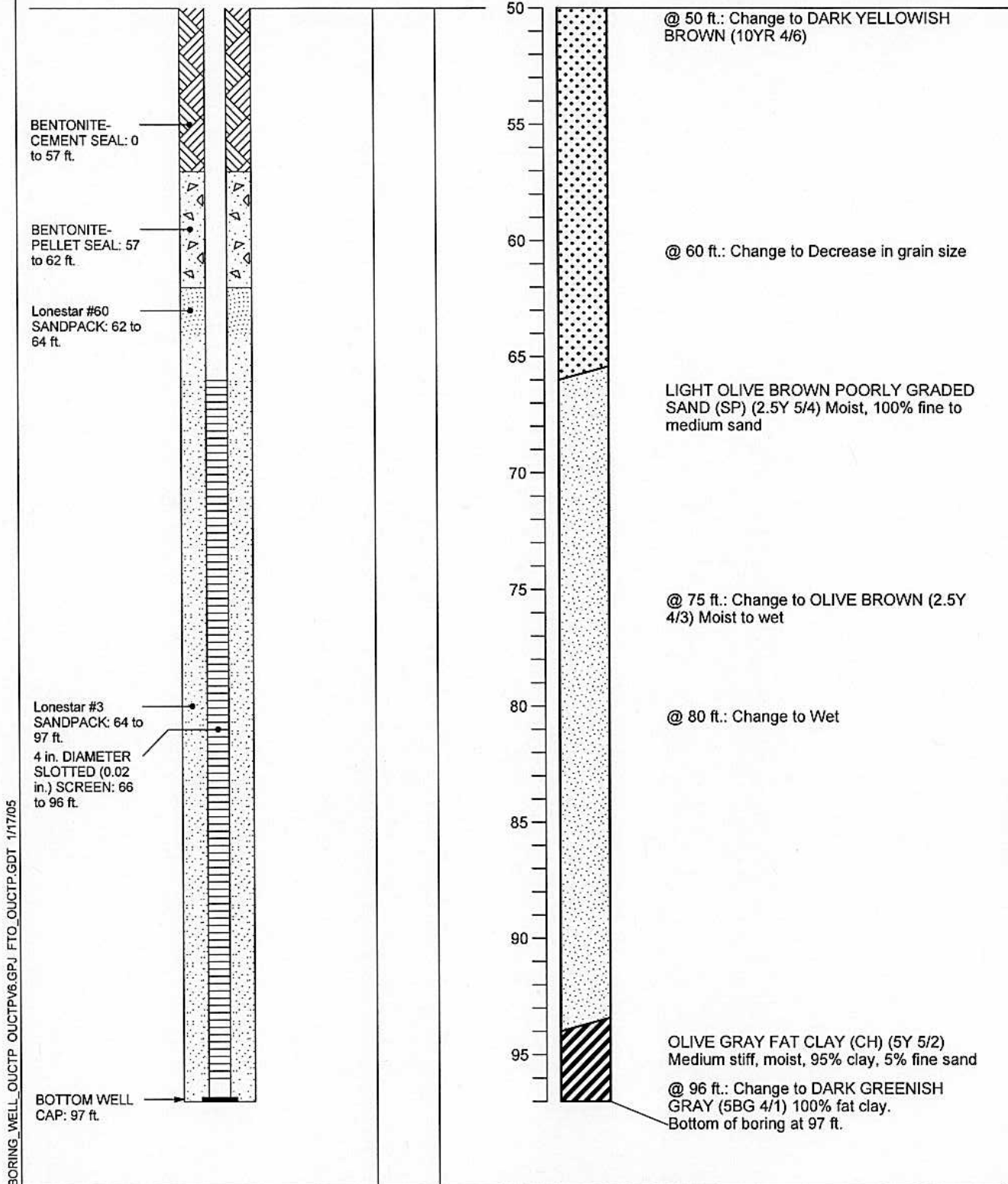
APPROVED

MDT / m

DATE
1/05

REVISED DATE

Completion Date 8/6/1998
 Drilling Method ARCH/mud rotary
 Logged by _____
 Surface Elevation 132.94 Hole Dia. 10 in.
 Northing 2140631.4149 Easting 5749294.1578



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Well Construction Details and Log of Boring MW-BW-16-A
 OUCTP

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED

MDT / am

DATE
1/05

REVISED DATE

A18

PLATE

Top of PVC Casing
Elev. 144.99 ft.

GROUND SURFACE
Top of casing at
2.3 ft. above
ground level

5 in. DIAMETER
SCHEDULE 40
PVC BLANK
CASING: +1.5 to
68 ft.

10 in. DIAMETER
BOREHOLE: 0 to
98 ft.

BENTONITE-
CEMENT SEAL: 0
to 57 ft.

Completion Date 7/29/1998

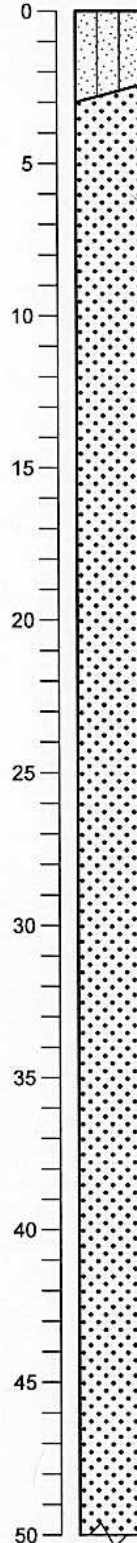
Drilling Method ARCH/mud rotary

Logged by _____

Surface Elevation 142.65 ft. Hole Dia. 10 in.

Northing 2140496.7601 Easting 5747900.6608

Depth (ft.)
Sample



BROWN SILTY SAND (SM) (10YR 4/3)
Loose, dry, 85% fine to coarse sand, 15%
silt, Trace roots

OLIVE BROWN WELL GRADED SAND
(SW) (2.5Y 4/3) Loose, dry, 95% fine to
coarse sand, 5% silt
@ 5 ft: Change to LIGHT OLIVE BROWN
(2.5Y 5/3)

@ 10 ft: Change to YELLOWISH BROWN
(10YR 5/6), 100% fine to coarse sand

@ 25 ft: Change to YELLOWISH BROWN
(10YR 5/4)

@ 35 ft: Change to LIGHT OLIVE BROWN
(2.5Y 5/4) Moist

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-17-A
OUCTP

Fort Ord, California

PLATE

A19

DRAWN
MBP

JOB NUMBER
55596 001701

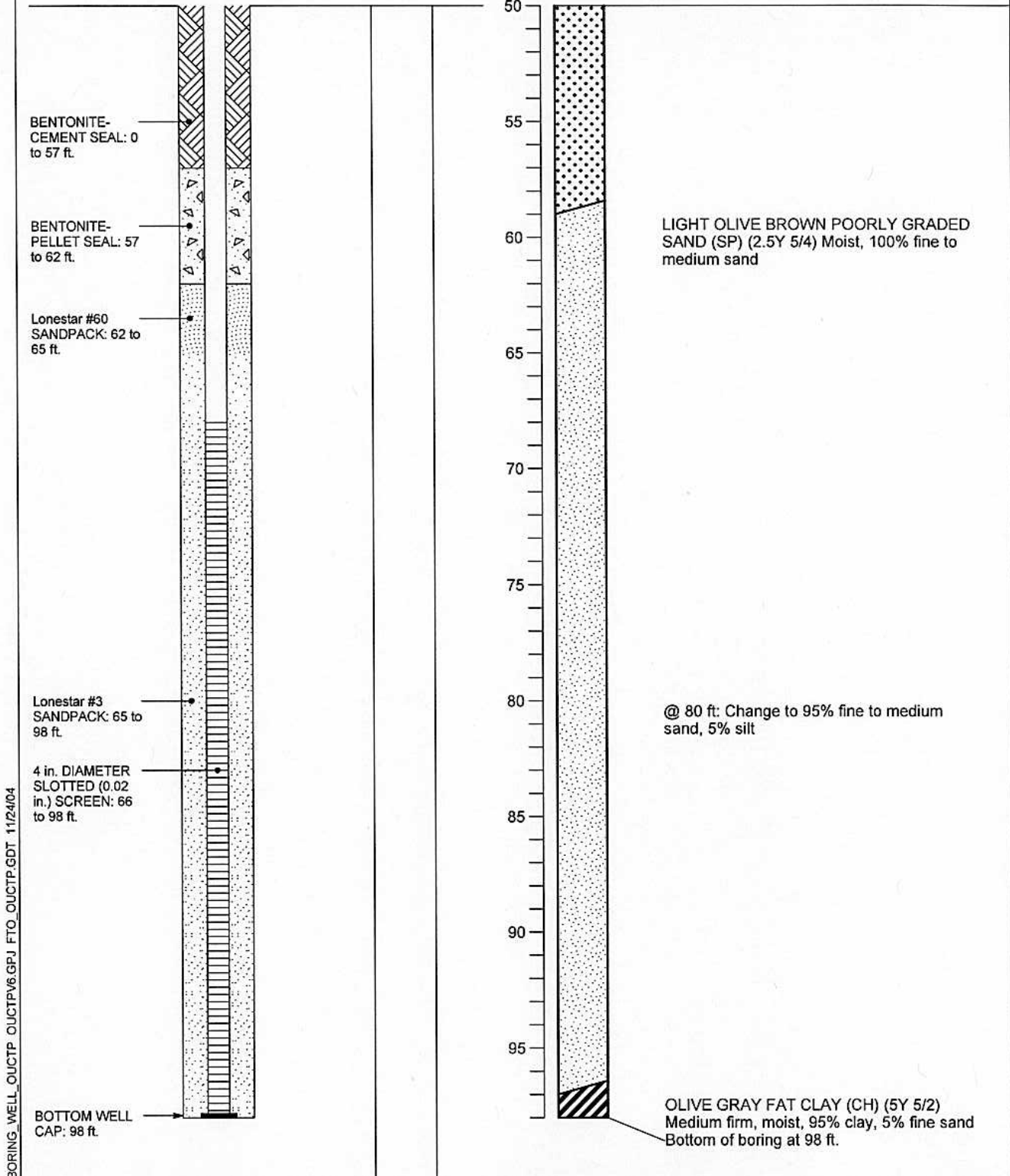
APPROVED

MDT / cmr

DATE
11/04

REVISED DATE

Completion Date 7/29/1998
 Drilling Method ARCH/mud rotary
 Logged by _____
 Surface Elevation 142.65 ft. Hole Dia. 10 in.
 Northing 2140496.7601 Easting 5747900.6608



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-17-A
 OUCTP

PLATE

Fort Ord, California

A19

DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED
 MDT/can

DATE
 11/04

REVISED DATE

Top of PVC Casing
Elev. 128.52 ft.

GROUND SURFACE
Top of casing at
2.1 ft. above
ground level

5 in. DIAMETER
SCHEDULE 40
PVC BLANK
CASING: +1.5 to
65 ft.

10 in. DIAMETER
BOREHOLE: 0 to
97 ft.

BENTONITE-
CEMENT SEAL: 0
to 52 ft.

Completion Date 7/20/1998

Drilling Method ARCH/mud rotary

Logged by _____

Surface Elevation 126.44 Hole Dia. 10 in.

Northing 2140319.6973 Easting 5746759.0654

Depth (ft.)
Sample

0
5
10
15
20
25
30
35
40
45
50

DARK BROWN SILTY SAND (SM) (7.5YR 3/2) Loose, moist, 80% fine to coarse sand, 20% silt

DARK YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 4/4) Loose, moist, 95% fine to coarse sand, 5% silt

@ 15 ft.: Change to 100% fine to coarse sand

@ 20 ft.: Change to BROWNISH YELLOW (10YR 6/6)

@ 35 ft.: Change to DARK YELLOWISH BROWN (10YR 4/4) 5% silt

YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 5/4) Loose, dry, 95% fine to medium sand, 5% silt

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 1/17/05



MACTEC

Well Construction Details and
Log of Boring MW-BW-18-A
OUCTP

PLATE

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED

MDT /cm

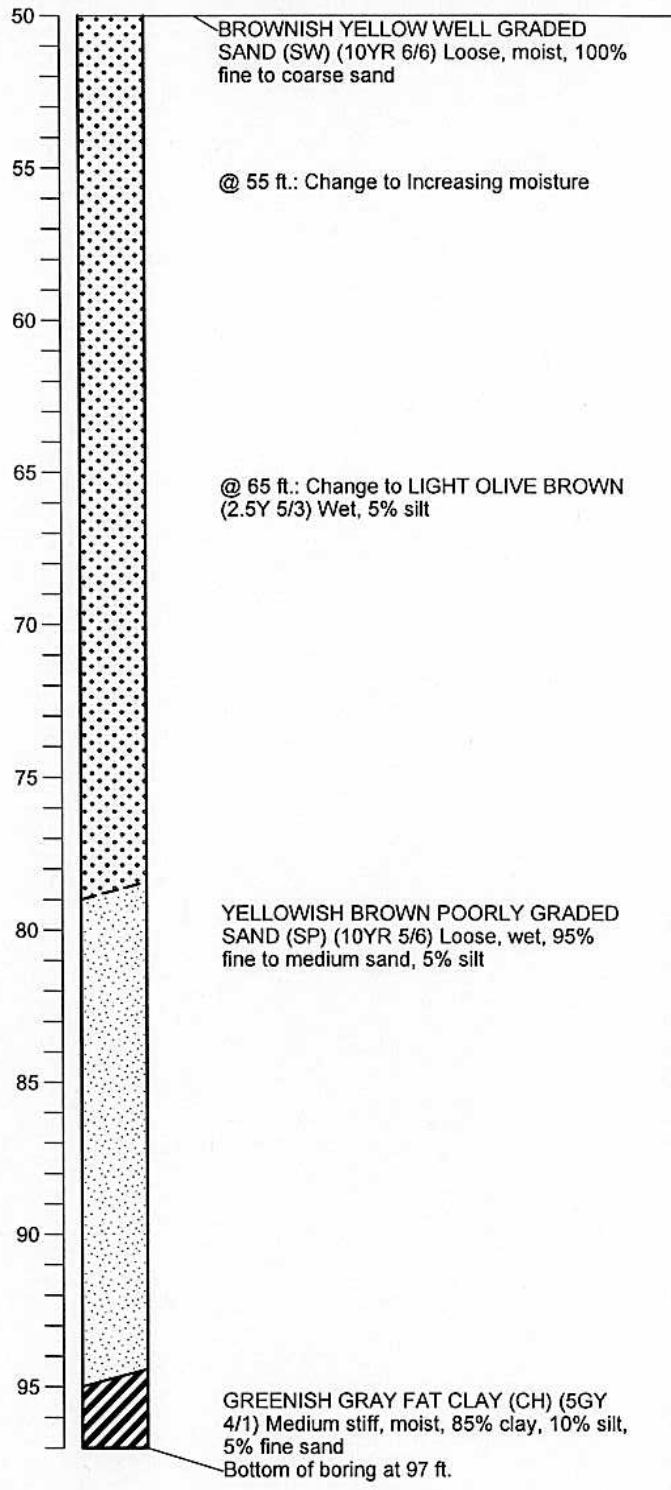
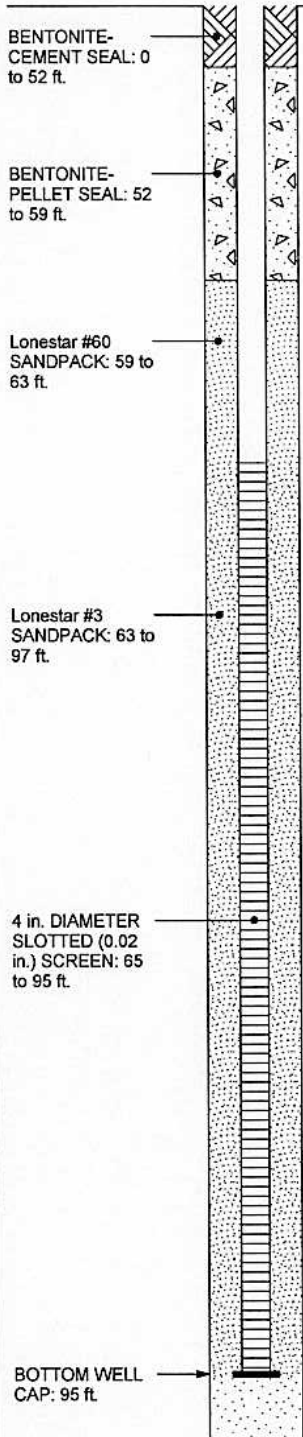
DATE
1/05

REVISED DATE

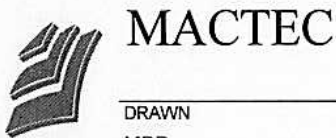
A20

Completion Date 7/20/1998
 Drilling Method ARCH/mud rotary
 Logged by _____
 Surface Elevation 126.44 Hole Dia. 10 in.
 Northing 2140319.6973 Easting 5746759.0654

Depth (ft.)
 Sample



BORING WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/17/05



Well Construction Details and
 Log of Boring MW-BW-18-A
 OUCTP

PLATE

A20

Fort Ord, California

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	MDT /cm	1/05	

Top of PVC Casing
Elev. 125.14 ft.

GROUND SURFACE

Top of casing at
1.0 ft. above
ground level

10 in. DIAMETER
BOREHOLE: 0 to
186 ft.

5 INCH
DIAMETER
SCHEDULE 40
PVC BLANK
CASING: 0 to 160
ft.

BENTONITE-
CEMENT SEAL: 0
to 144 ft.

Completion Date 7/15/1998

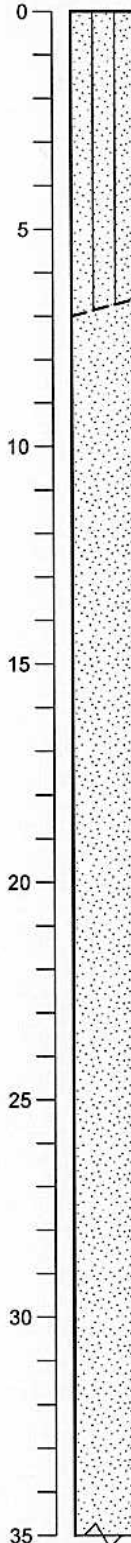
Drilling Method ARCH/mud rotary

Logged by D. Browne

Surface Elevation 126.66 ft. Hole Dia. 10 in.

Northing 2140305.192 Easting 5746763.564

Depth (ft.)
Sample



GRAYISH BROWN SILTY SAND (SM) (5Y 5/2) Loose, dry, 55% fine to coarse sand, 35% silt, trace roots, fine gravel

YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 5/6) Loose, dry, 100% fine to coarse sand

@ 15 ft.: Similar to above

@ 20 ft.: Change to BROWNISH YELLOW (10YR 6/6) Moist

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above

BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-19-180
OUCTP

PLATE

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED

MDT / cur

DATE
11/04

REVISED DATE

A21

Completion Date 7/15/1998
 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 126.66 ft. Hole Dia. 10 in.
 Northing 2140305.192 Easting 5746763.564

Depth (ft.)
Sample

BENTONITE-
CEMENT SEAL: 0
to 144 ft.

35
40
45
50
55
60
65
70

@ 35 ft.: Similar to above

 @ 38 ft.: Decrease in coarse grained sand

 @ 45 ft.: Change to YELLOWISH BROWN
(10YR 5/6)

 @ 50 ft.: Change to 95% fine to coarse
sand, 5% silt, Increase in moisture

 @ 55 ft.: Change to BROWNISH YELLOW
(10YR 6/6) Loose, moist, increasing
moisture

 @ 60 ft.: Similar to above

 @ 65 ft.: Change to Moist to wet

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-19-180
OUCTP

PLATE

Fort Ord, California

A21

DRAWN
MBP

JOB NUMBER
55596 001701

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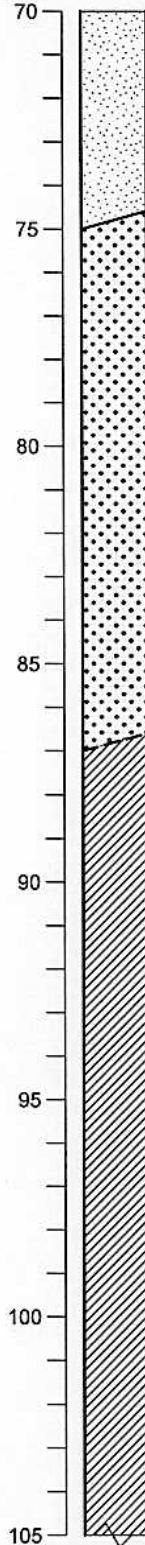
DATE
11/04

REVISED DATE

Completion Date 7/15/1998
 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 126.66 ft. Hole Dia. 10 in.
 Northing 2140305.192 Easting 5746763.564

Depth (ft.)
 Sample

BENTONITE-
 CEMENT SEAL: 0
 to 144 ft.



@ 70 ft.: Change to DARK YELLOWISH
 BROWN (10YR 4/4) Loose, moist to wet

DARK YELLOWISH BROWN WELL
 GRADED SAND (SW) (10YR 4/4) Loose,
 wet, 80% fine sand, 20% medium sand

@ 80 ft.: Change to Wet

@ 85 ft.: Change to DARK YELLOWISH
 BROWN (10YR 4/6) Loose, wet

DARK GREENISH GRAY LEAN CLAY (CL)
 (5Y 4/1) Stiff, moist, 80% clay, 20% silt

@ 90 ft.: Similar to above

@ 95 ft.: Similar to above

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-19-180
 OUCTP

PLATE

Fort Ord, California

A21

DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED
 MDT/cm

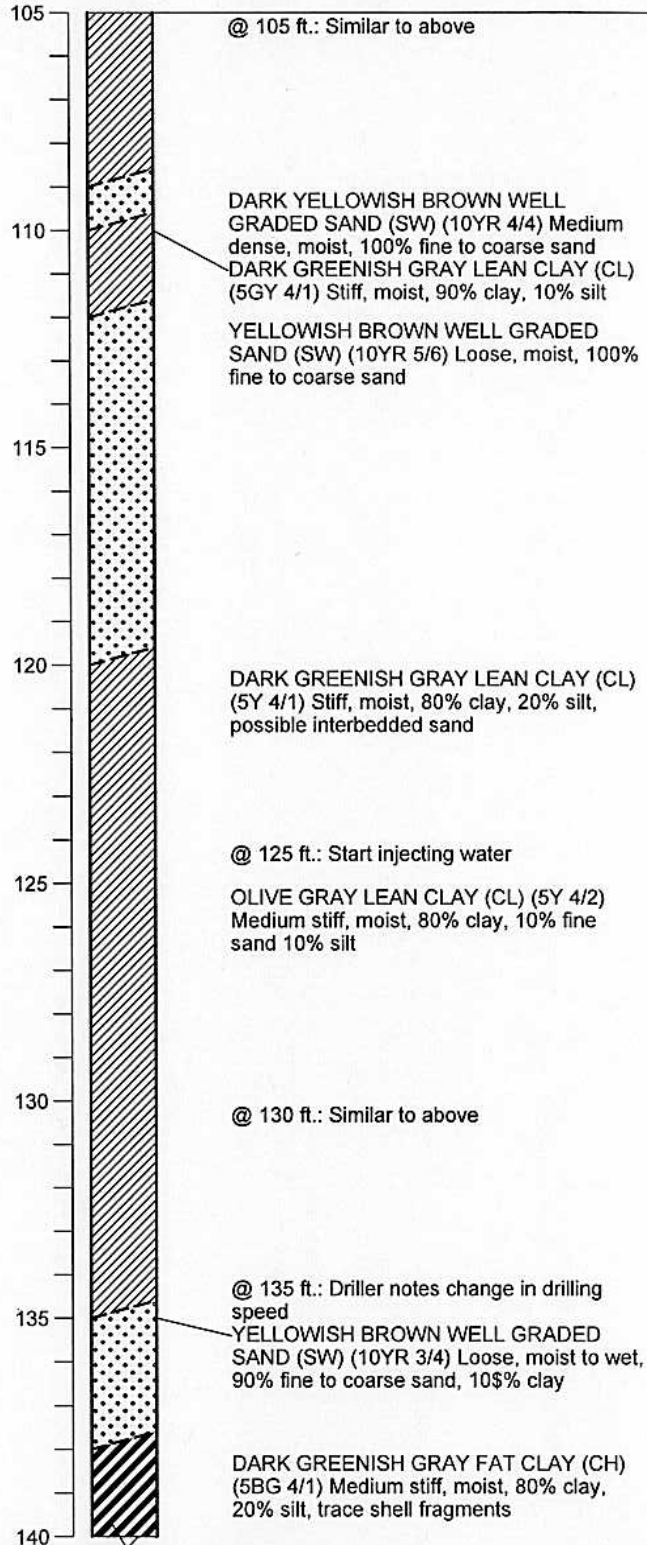
DATE
 11/04

REVISED DATE

Completion Date 7/15/1998
 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 126.66 ft. Hole Dia. 10 in.
 Northing 2140305.192 Easting 5746763.564

Depth (ft.)
Sample

BENTONITE-
CEMENT SEAL: 0
to 144 ft.



BORING WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
Log of Boring MW-BW-19-180
OUCTP

PLATE



MACTEC

Fort Ord, California

A21

DRAWN
MBP

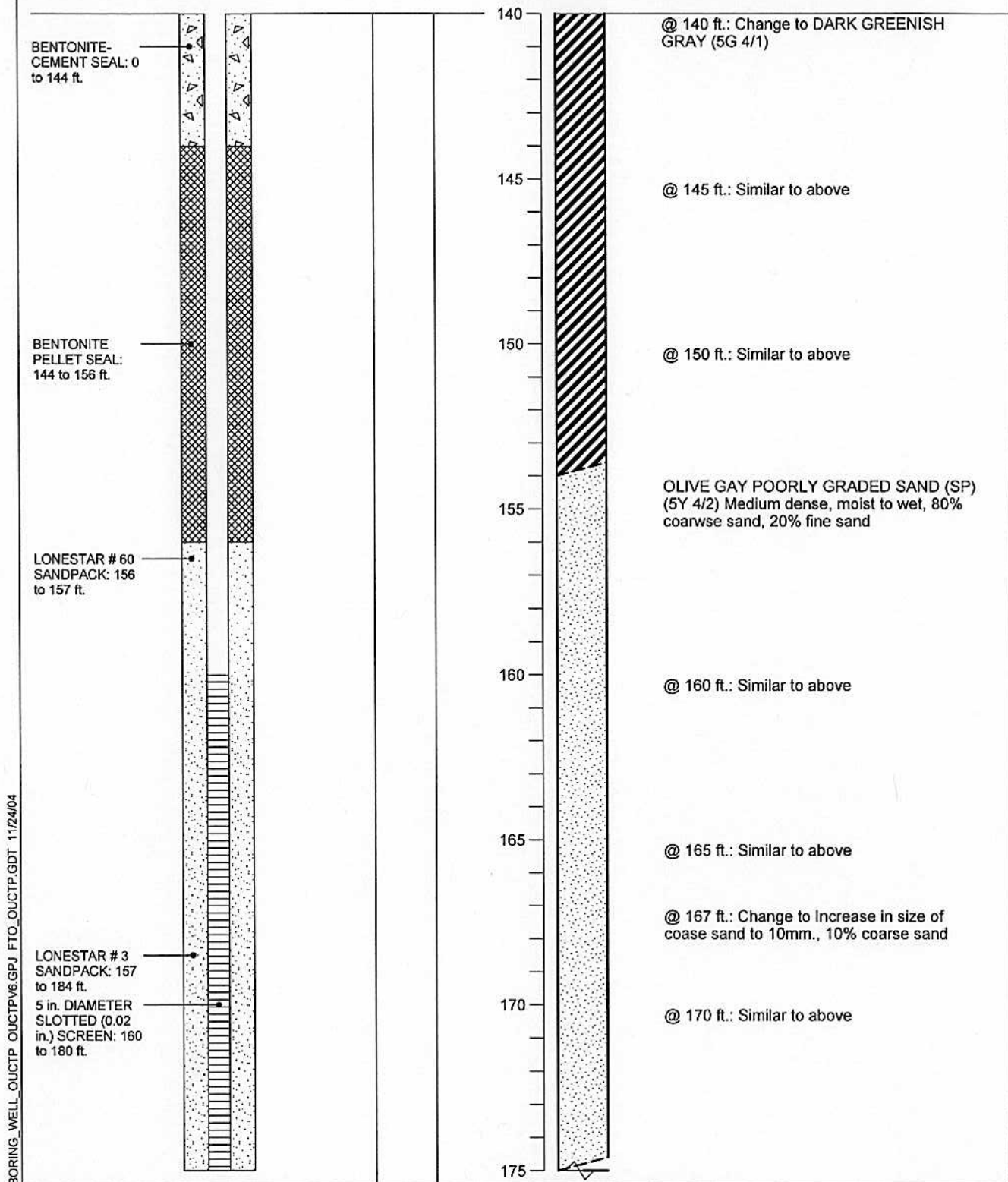
JOB NUMBER
55596 001701

APPROVED
MDT / can

DATE
11/04

REVISED DATE

Completion Date 7/15/1998
 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 126.66 ft. Hole Dia. 10 in.
 Northing 2140305.192 Easting 5746763.564



BORING WELL OUCTP OUCTPV6GPJ FTO_OUCTPGDT 11/24/04

Well Construction Details and
 Log of Boring MW-BW-19-180
 OUCTP

PLATE



MACTEC

Fort Ord, California

A21

DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED
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DATE
 11/04

REVISED DATE

Completion Date 7/15/1998
 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 126.66 ft. Hole Dia. 10 in.
 Northing 2140305.192 Easting 5746763.564

Depth (ft.)
 Sample

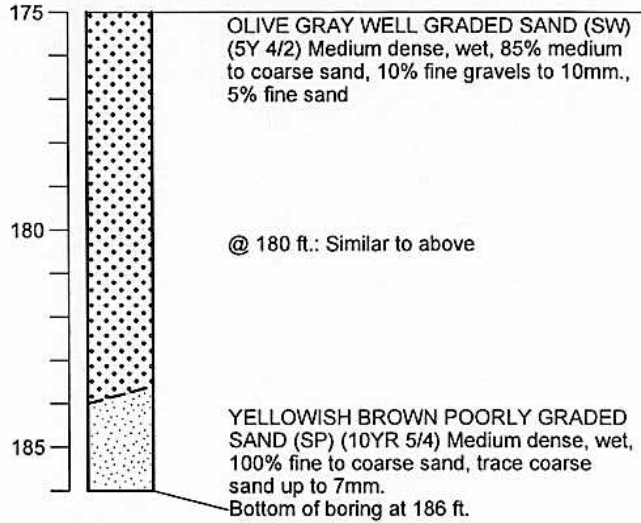
LONESTAR #3
 SANDPACK: 157
 to 184 ft.

BOTTOM WELL
 CAP: 180 ft.

BENTONITE
 CHIPS: 180 to 184
 ft.

Hole cleaned out to
 184 ft.

Bottom of Borehole
 @ 186 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-19-180
 OUCTP

Fort Ord, California

PLATE

A21

DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED
 MDT /cm

DATE
 11/04

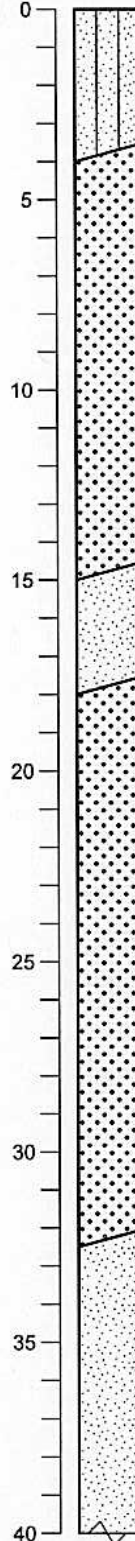
REVISED DATE

Completion Date 12/18/2002Drilling Method SonicLogged by D. BrowneSurface Elevation 125.53 ft. Hole Dia. 7 in.Northing 2140320.62 Easting 5746734.17

Top of PVC Casing

Elev. 124.91 ft.CHRISTY
BOX

GROUND SURFACE

Top of casing at
0.5 ft. below
ground level7 in. DIAMETER
BOREHOLE: 0 to
258.5 ft.3 DIAMETER
SCHEDULE 40
PVC BLANK
CASING: -0.5 to
248 ft.BENTONITE-
CEMENT SEAL: 0
to 25 ft.BENTONITE
SLURRY: 25 to
199 ft.Depth (ft.)
SampleVERY DARK GRAYISH BROWN SILTY
SAND (SM) (10YR 3/2) Loose, moist, 80%
fine to coarse sand, 20% silt@ 2 ft.: Change to DARK GRAYISH
BROWN (10YR 4/2) Gradational contact to
4 ft.BROWNISH YELLOW WELL GRADED
SAND (SW) (10YR 6/6) Loose, dry, 90%
fine to coarse sand, 10% silt@ 6 ft.: Change to YELLOWISH BROWN
(10YR 5/6)@ 10 ft.: Change to 95% fine to coarse
sand, 5% silt

@ 11.5 ft.: Similar to above

YELLOWISH BROWN POORLY GRADED
SAND (SP) (10YR 5/6) Loose, dry, 95% fine
to medium sand, 5% siltYELLOWISH BROWN WELL GRADED
SAND (SW) (10YR 5/6) Loose, dry, 95%
fine to coarse sand, 5% silt@ 19 ft.: Change to LIGHT YELLOWISH
BROWN (2.5Y 6/3) Note: Skin appears to
be on core surface @ 19 ft.@ 23 ft.: Change to LIGHT OLIVE BROWN
(2.5Y 5/3)@ 25 ft.: Change to BROWNISH YELLOW
(10YR 6/6)@ 28 ft.: Change to LIGHT YELLOWISH
BROWN (2.5Y 6/3)

@ 30 ft.: Change to PALE OLIVE (5Y 6/3)

OLIVE YELLOW POORLY GRADED SAND
(SP) (2.5Y 6/6) Loose, dry, 95% fine to
medium sand, 5% silt@ 35 ft.: Change to YELLOWISH BROWN
(10YR 5/4)@ 38 ft.: Change to LIGHT YELLOWISH
BROWN (10YR 6/4)

BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
Log of Boring MW-BW-19-180R
OUCTP

PLATE



MACTEC

Fort Ord, California

DRAWN
MBPJOB NUMBER
55596 001701

APPROVED

MDT / cm

DATE
11/04

REVISED DATE

A22

Completion Date 12/18/2002

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 125.53 ft.

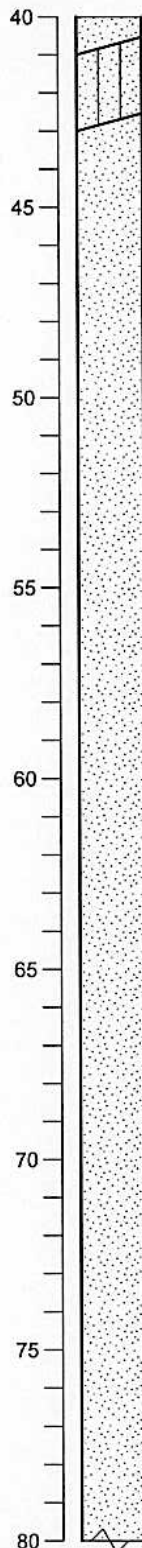
Hole Dia. 7 in.

Northing 2140320.62

Easting 5746734.17

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
199 ft.



LIGHT OLIVE BROWN SILTY SAND (SM)
(2.5Y 5/3) Medium dense, dry, 80% fine to
medium sand, 20% silt, Visible bedding
planes of various colors, gray, white
STRONG BROWN POORLY GRADED
SAND (SP) (7.5YR 5/6) Loose, dry, 90%
fine to medium sand, 10% silt

@ 47 ft.: Change to YELLOWISH BROWN
(10YR 5/6)

@ 50 ft.: Similar to above

@ 55 ft.: Change to OLIVE YELLOW (2.5Y
6/6)

@ 57 ft.: Similar to above

@ 62 ft.: Change to LIGHT YELLOWISH
BROWN (2.5Y 6/4) Sample lost from 57 to
62 ft.

@ 65 ft.: Similar to above

@ 70 ft.: Similar to above

@ 71 ft.: Change to LIGHT OLIVE BROWN
(2.5Y 5/4) Loose, moist, 95% fine to
medium sand, 5% silt

@ 72 ft.: Change to Loose, wet

@ 75 ft.: Similar to above

BORING WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-19-180R
OUCTP

PLATE

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED

MDT/cim

DATE
11/04

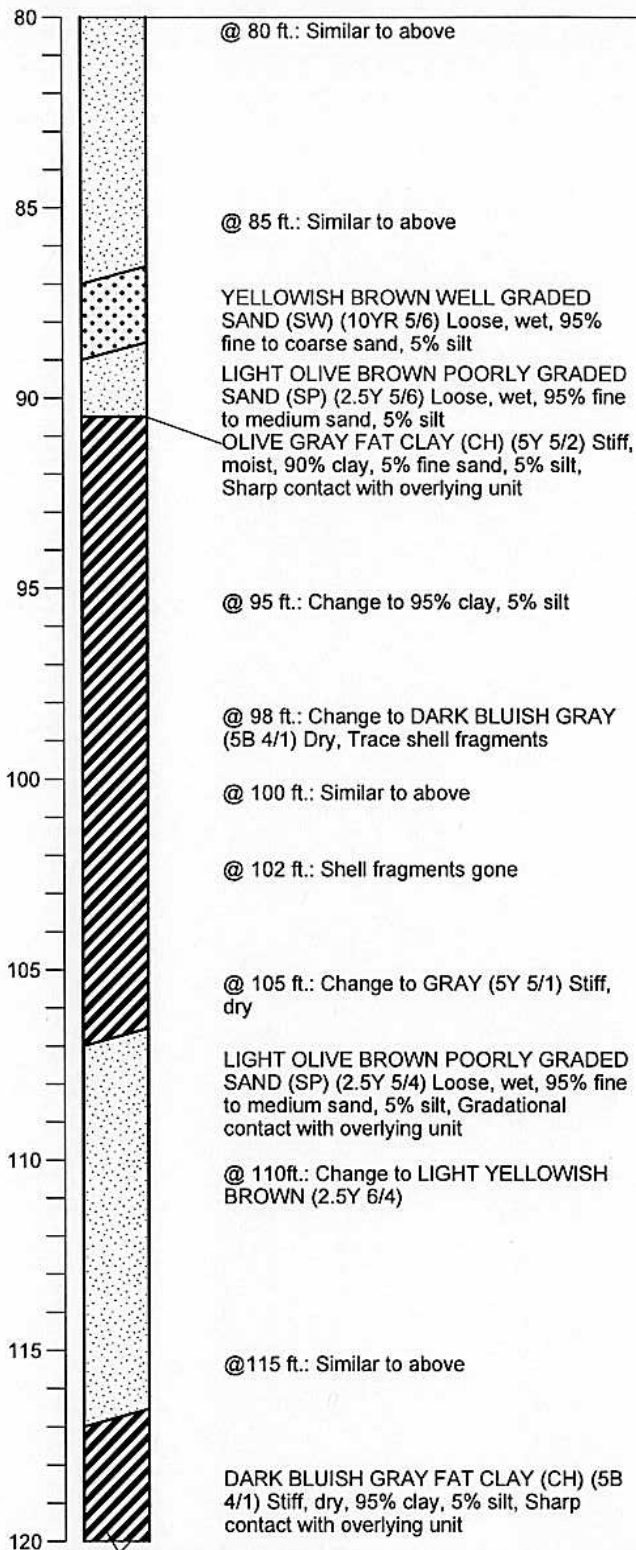
REVISED DATE

A22

Completion Date 12/18/2002
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 125.53 ft. Hole Dia. 7 in.
 Northing 2140320.62 Easting 5746734.17

Depth (ft.)
 Sample

BENTONITE
 SLURRY: 25 to
 199 ft.



BORING_WELL_OUCTP OUCTPVS.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-19-180R
 OUCTP

PLATE

Fort Ord, California

A22

DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED
MDT/cmr

DATE
 11/04

REVISED DATE

Completion Date 12/18/2002

Drilling Method Sonic

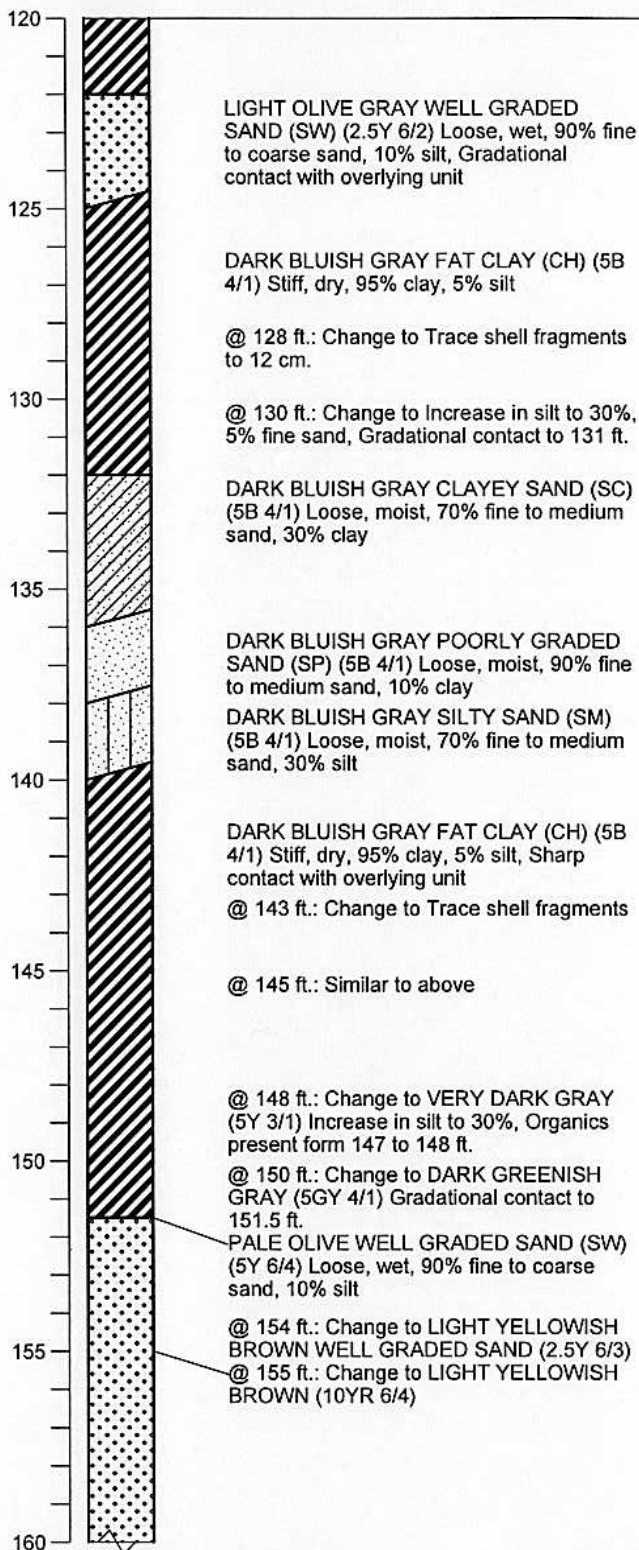
Logged by D. Browne

Surface Elevation 125.53 ft. Hole Dia. 7 in.

Northing 2140320.62 Easting 5746734.17

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
199 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
Log of Boring MW-BW-19-180R
OUCTP

PLATE



MACTEC

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

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DATE
11/04

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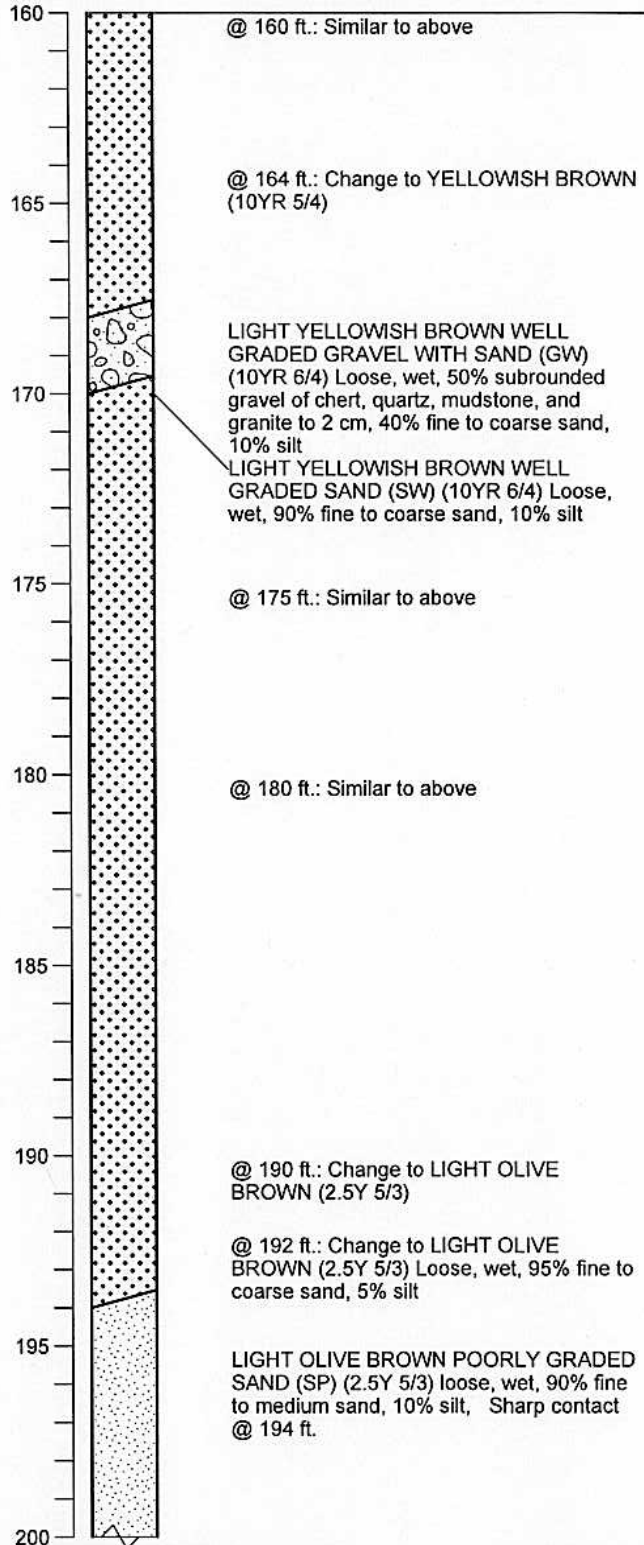
A22

Completion Date 12/18/2002
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 125.53 ft. Hole Dia. 7 in.
 Northing 2140320.62 Easting 5746734.17

Depth (ft.)
 Sample

BENTONITE
 SLURRY: 25 to
 199 ft.

BENTONITE
 PELLET SEAL:
 199 to 204.5 ft.



BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-19-180R
 OUCTP

PLATE

Fort Ord, California

A22

DRAWN
 MBP

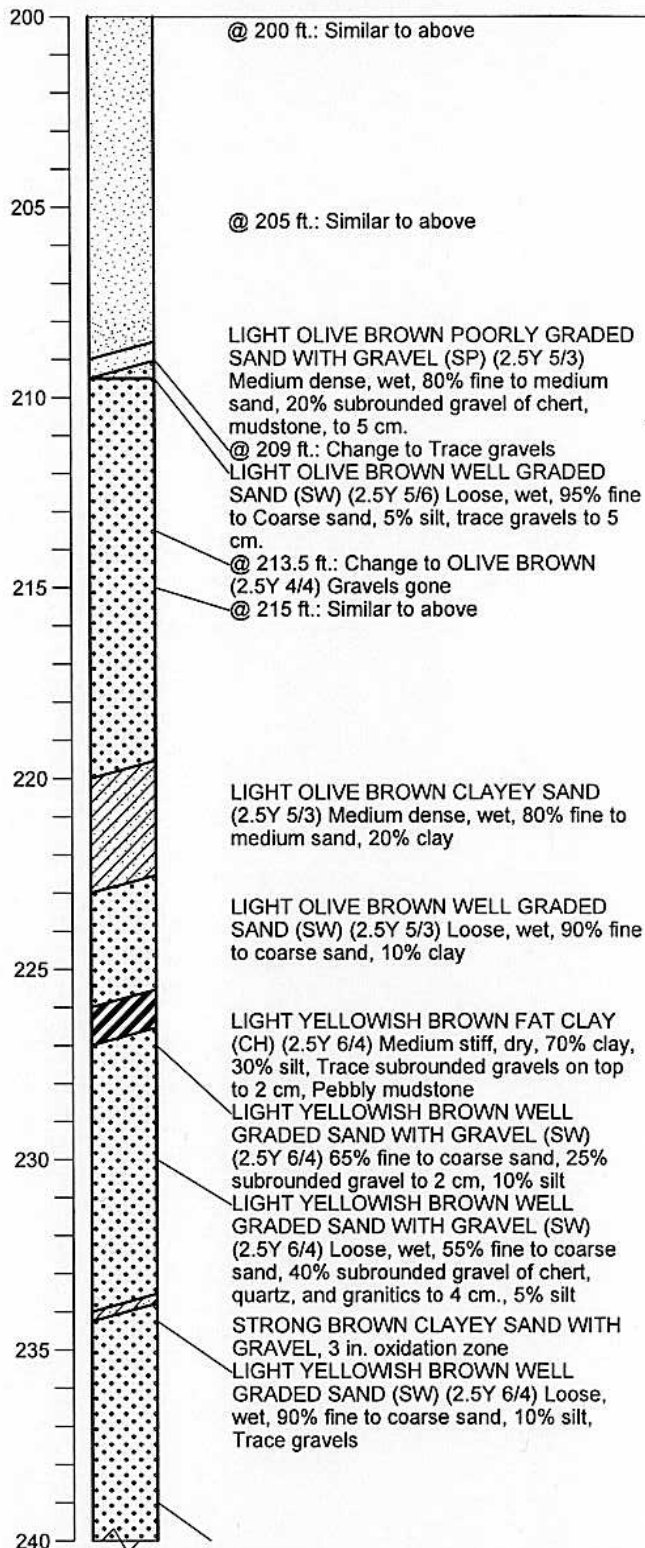
JOB NUMBER
 55596 001701

APPROVED

MDT / am

DATE
 11/04

REVISED DATE

Completion Date 12/18/2002Drilling Method SonicLogged by D. BrowneSurface Elevation 125.53 ft. Hole Dia. 7 in.Northing 2140320.62 Easting 5746734.17Depth (ft.)
SampleBENTONITE
PELLET SEAL:
199 to 204.5 ft.LONESTAR # 2/12
SANDPACK: 204.5
to 248 ft.
3 in. DIAMETER
SLOTTED (0.02
in.) SCREEN: 208
to 248 ft.Well Construction Details and
Log of Boring MW-BW-19-180R
OUCTP

PLATE



MACTEC

Fort Ord, California

DRAWN
MBPJOB NUMBER
55596 001701

APPROVED

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DATE
11/04

REVISED DATE

A22

Completion Date 12/18/2002

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 125.53 ft. Hole Dia. 7 in.

Northing 2140320.62 Easting 5746734.17

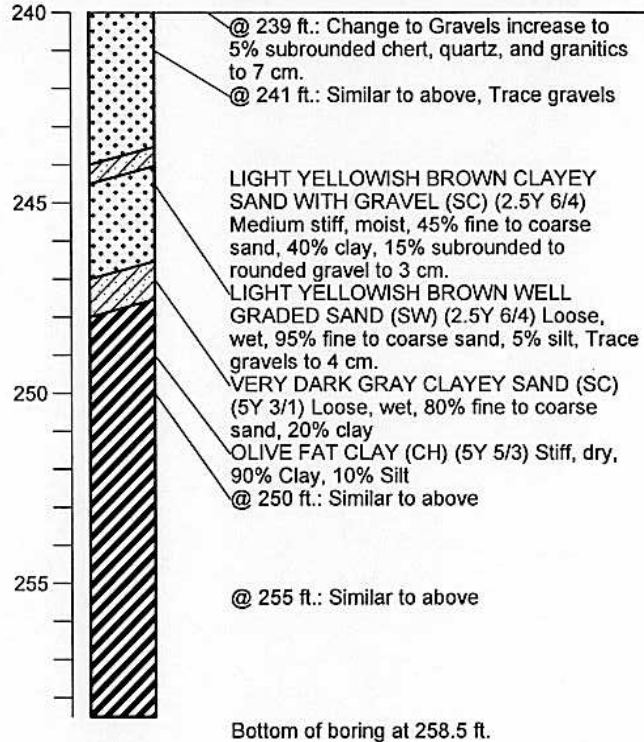
Depth (ft.)
Sample

LONESTAR # 2/12
SANDPACK: 204.5
to 248 ft.

3 in. DIAMETER
SLOTTED (0.02
in.) SCREEN: 208
to 248 ft.

BOTTOM WELL
CAP: 248 ft.

BENTONITE
CHIPS: 248 to
258.5 ft.



BORING_WELL_OUCTP_OUCTPv6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-19-180R
OUCTP

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

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DATE
11/04

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A22

PLATE

Top of PVC Casing
Elev. 146.51 ft.

Completion Date 7/22/1998
Drilling Method ARCH/mud rotary
Logged by D. Browne
Surface Elevation 145.1 ft. Hole Dia. 10 in.
Northing 2140645.127 Easting 5747685.235

GROUND SURFACE

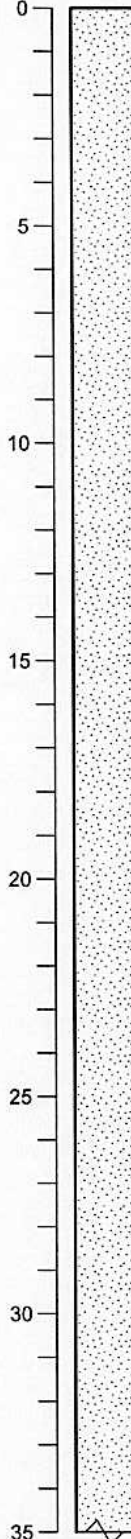
Top of casing at
2.0 ft. above
ground level

10 in. DIAMETER
BOREHOLE: 0 to
198 ft.

5 INCH
DIAMETER
SCHEDULE 40
PVC BLANK
CASING: 0 to
177.5 ft.

BENTONITE-
CEMENT SEAL: 0
to 168 ft.

Depth (ft.)
Sample



DARK BROWN POORLY GRADED SAND
WITH SILT (SP) (7.5YR 3/2) Loose, dry,
90% fine to coarse sand, 10% silt

@ 5 ft.: Change to BROWN (10YR 4/3)
100% fine to coarse sand

@ 10 ft.: Similar to above

@ 12 ft.: Change to YELLOWISH BROWN
(10YR 5/4) 60% fine sand, 40% coarse
sand, decreasing coarse sand

@ 15 ft.: Similar to above

@ 38 ft.: Change to Increase in coarse
grained sand (40-50%)

@ 25 ft.: Similar to above

@ 30 ft.: Change to LIGHT YELLOWISH
BROWN (10YR 6/4)

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-20-180
OUCTP

PLATE

Fort Ord, California

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JOB NUMBER
55596 001701

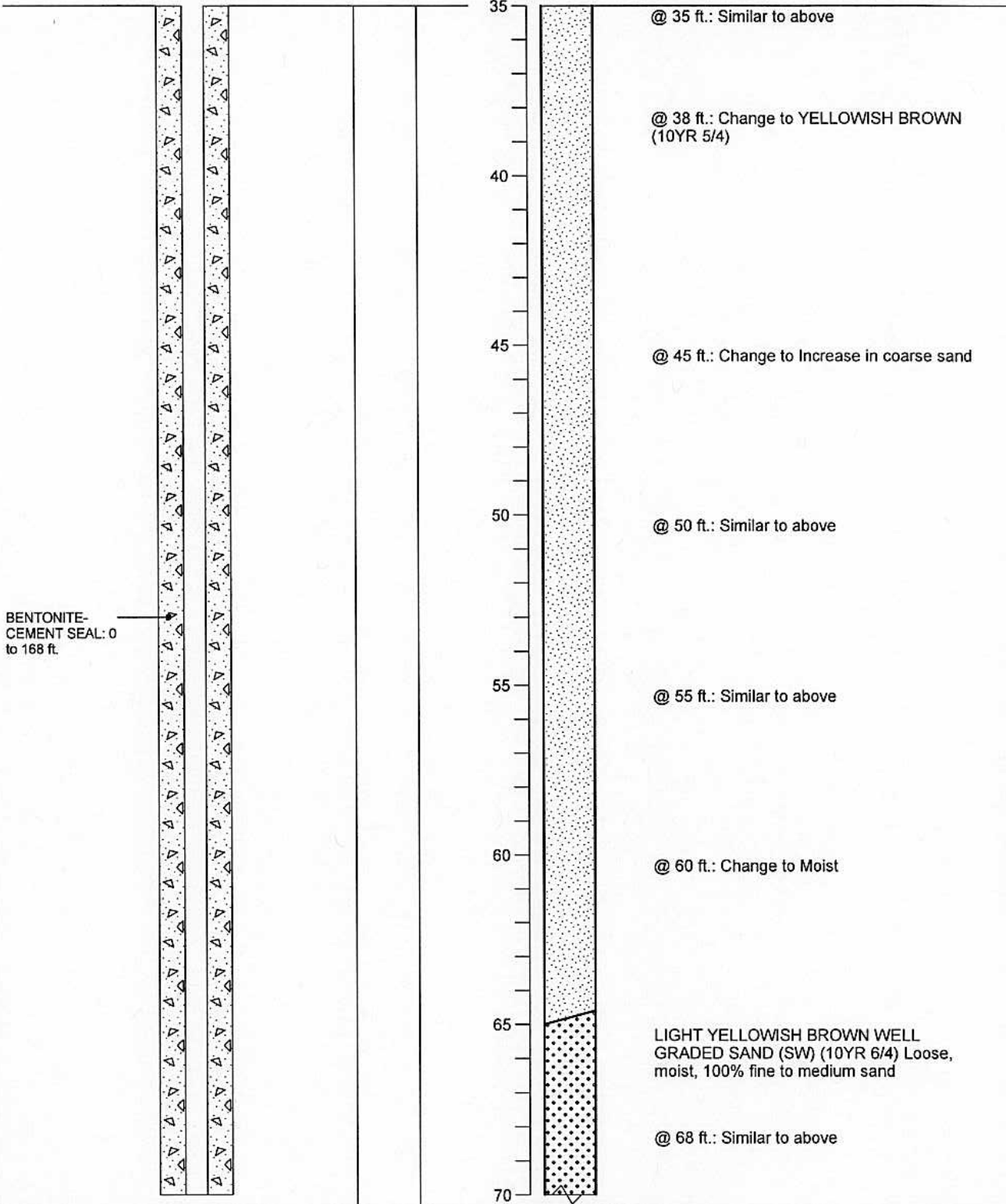
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DATE
11/04

A23
REVISED DATE

Completion Date 7/22/1998
 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 145.1 ft. Hole Dia. 10 in.
 Northing 2140645.127 Easting 5747685.235

Depth (ft.)
 Sample



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
 Log of Boring MW-BW-20-180
 OUCTP

PLATE



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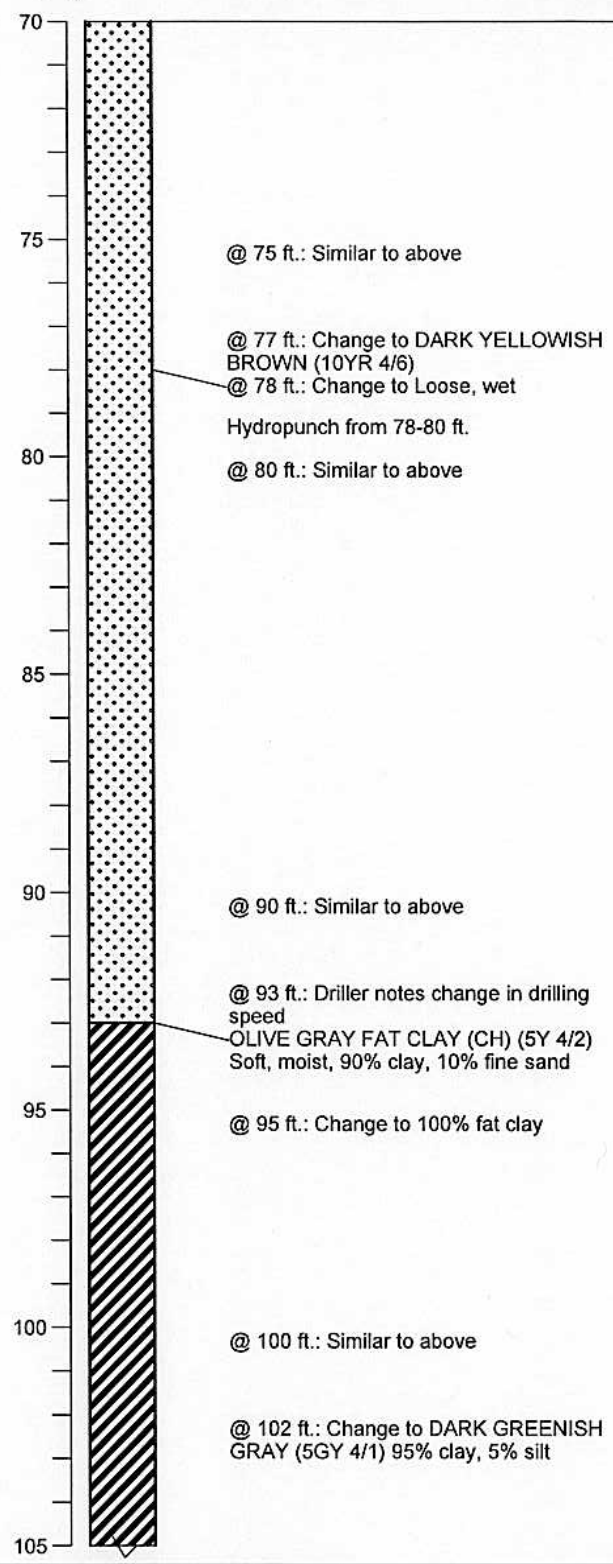
REVISED DATE

A23

Completion Date 7/22/1998
 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 145.1 ft. Hole Dia. 10 in.
 Northing 2140645.127 Easting 5747685.235

Depth (ft.)
 Sample

BENTONITE-
 CEMENT SEAL: 0
 to 168 ft.



BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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**Well Construction Details and
 Log of Boring MW-BW-20-180**
 OUCTP

PLATE

A23

DRAWN
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JOB NUMBER
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Fort Ord, California
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DATE
 11/04

REVISED DATE

Completion Date 7/22/1998
 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 145.1 ft. Hole Dia. 10 in.
 Northing 2140645.127 Easting 5747685.235

Depth (ft.)
Sample

BENTONITE-
CEMENT SEAL: 0
to 168 ft.



@ 110 ft.: Change to Medium stiff, moist

@ 115 ft.: Similar to above

@ 120 ft.: Similar to above

@ 124 ft.: Change to OLIVE GRAY (5Y 4/2)
Stiff, dry

@ 127 ft.: Change to OLIVE GRAY (5Y 5/2)

DARK GRAYISH BROWN WELL GRADED
SAND (SW) (2.5Y 4/2) Loose, moist, 95%
fine sand, 5% silt

@ 135 ft.: Change to GRAYISH BROWN
(2.5Y 5/2) 100% fine to medium sand

BORING WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-20-180
OUCTP

Fort Ord, California

PLATE

A23

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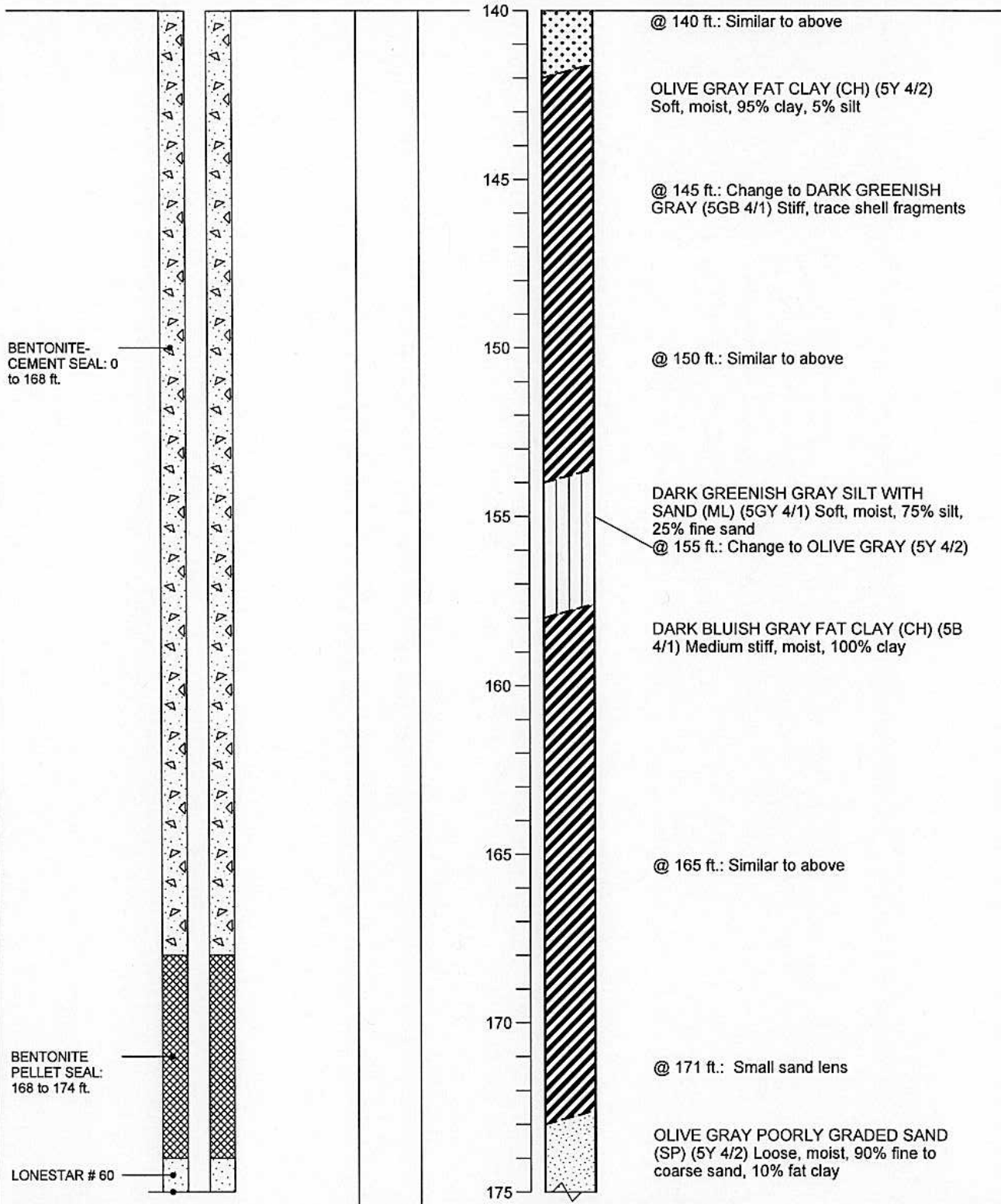
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DATE
11/04

REVISED DATE

Completion Date 7/22/1998
 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 145.1 ft. Hole Dia. 10 in.
 Northing 2140645.127 Easting 5747685.235

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and Log of Boring MW-BW-20-180
 OUCTP

PLATE

A23

DRAWN
MBP

JOB NUMBER
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Fort Ord, California

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DATE
11/04

REVISED DATE

Completion Date 7/22/1998
 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 145.1 ft. Hole Dia. 10 in.
 Northing 2140645.127 Easting 5747685.235

Depth (ft.)
Sample

SANDPACK: 174 to 176 ft.
 LONESTAR # 60
 SANDPACK: 174 to 176 ft.

LONESTAR # 3
 SANDPACK: 176 to 198 ft.
 5 in. DIAMETER
 SLOTTED (0.02 in.) SCREEN:
 177.5 to 197.5 ft.

BOTTOM WELL
 CAP: 198 ft.
 Bottom of Borehole
 @ 198 ft.

@ 175 ft.: Change to OLIVE (5Y 5/3)

LIGHT YELLOWISH BROWN WELL
 GRADED SAND (SW) (10YR 6/4) 100%
 medium to coarse sand

@ 185 ft.: Similar to above

@ 190 ft.: Change to LIGHT OLIVE
 BROWN (2.5Y 5/3) Loose, wet, 80%
 medium to coarse sand, 10% fine sand,
 10% fine gravel

@ 195 ft.: Change to Gravel to 40cm.
 (approx. 10%)

@ 197 ft.: Change to 90% fine to medium
 sand, 10% silt
 Bottom of boring at 198 ft.

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MW-BW-20-180
 OUCTP

PLATE

A23

Fort Ord, California

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MBP

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55596 001701

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DATE
11/04

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Top of PVC Casing
Elev. 144.67 ft.

GROUND SURFACE

Top of casing at
1.5 ft. above
ground level

10 in. DIAMETER
BOREHOLE: 0 to
198 ft.

5 INCH
DIAMETER
SCHEDULE 40
PVC BLANK
CASING: 0 to 173
ft.

BENTONITE-
CEMENT SEAL: 0
to 163 ft.

Completion Date 7/30/1998

Drilling Method ARCH/mud rotary

Logged by D. Browne

Surface Elevation 143.14 ft. Hole Dia. 10 in.

Northing 2140731.912 Easting 5748342.543

Depth (ft.)
Sample

0
5
10
15
20
25
30
35

BROWN SILTY SAND (SM) (10YR 4/3)
Loose, dry, 85% fine to coarse sand, 15%
silt, trace roots

DARK YELLOWISH BROWN POORLY
GRADED SAND (SP) (10YR 4/4) Loose,
dry, 95% fine to coarse sand, 5% silt

@ 10 ft.: Change to YELLOWISH BROWN
(10YR 5/4)

@ 20 ft.: Change to YELLOWISH BROWN
(10YR 5/6)

@ 25 ft.: Similar to above

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-21-180
OUCTP

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

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DATE
11/04

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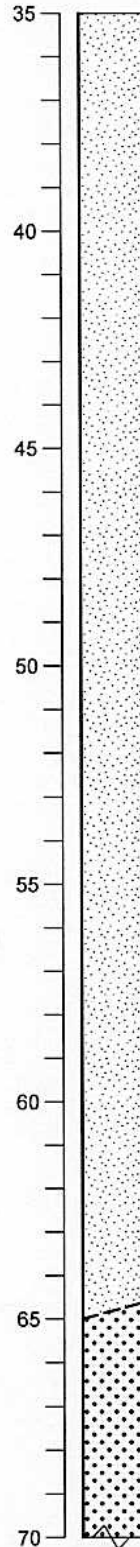
A24

PLATE

Completion Date 7/30/1998
 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 143.14 ft. Hole Dia. 10 in.
 Northing 2140731.912 Easting 5748342.543

Depth (ft.)
 Sample

BENTONITE-
 CEMENT SEAL: 0
 to 163 ft.



@ 35 ft.: Similar to above

@ 45 ft.: Similar to above

@ 50 ft.: Similar to above

@ 55 ft.: Change to Moist

@ 60 ft.: Similar to above

YELLOWISH BROWN WELL GRADED
 SAND (SW) (10YR 5/6) Loose, moist, 100%
 fine to medium sand

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
 Log of Boring MW-BW-21-180
 OUCTP

PLATE



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Fort Ord, California

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DATE
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A24

Completion Date 7/30/1998
 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 143.14 ft. Hole Dia. 10 in.
 Northing 2140731.912 Easting 5748342.543

Depth (ft.)
 Sample

BENTONITE-
 CEMENT SEAL: 0
 to 163 ft.

70
75
80
85
90
95
100
105

@ 75 ft.: Change to LIGHT OLIVE BROWN
 (2.5Y 5/4) Moist to wet

 @ 78 ft.: Change to Increasing moisture,
 grab sample taken

 @ 80 ft.: Change to Wet

 @ 90 ft.: Similar to above

 @ 100 ft.: Similar to above

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MW-BW-21-180
 OUCTP

PLATE

A24

Fort Ord, California

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JOB NUMBER
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DATE
 11/04

REVISED DATE

Completion Date 7/30/1998
 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 143.14 ft. Hole Dia. 10 in.
 Northing 2140731.912 Easting 5748342.543

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

BENTONITE-
CEMENT SEAL: 0
to 163 ft.

Depth (ft.)
Sample



LIGHT OLIVE BROWN FAT CLAY (CH)
(2.5Y 5/3) Medium firm, moist, 90% clay,
10% fine sand

@ 110 ft.: Change to 90% clay, 10% silt

@ 120 ft.: Similar to above

@ 130 ft.: Similar to above

LIGHT OLIVE BROWN WELL GRADED
SAND (SW) (2.5Y 5/3) Loose, dry, 90% fine
to medium sand, 10% silt

@ 135 ft.: Change to 100% fine sand



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Well Construction Details and
Log of Boring MW-BW-21-180
OUCTP

Fort Ord, California

PLATE

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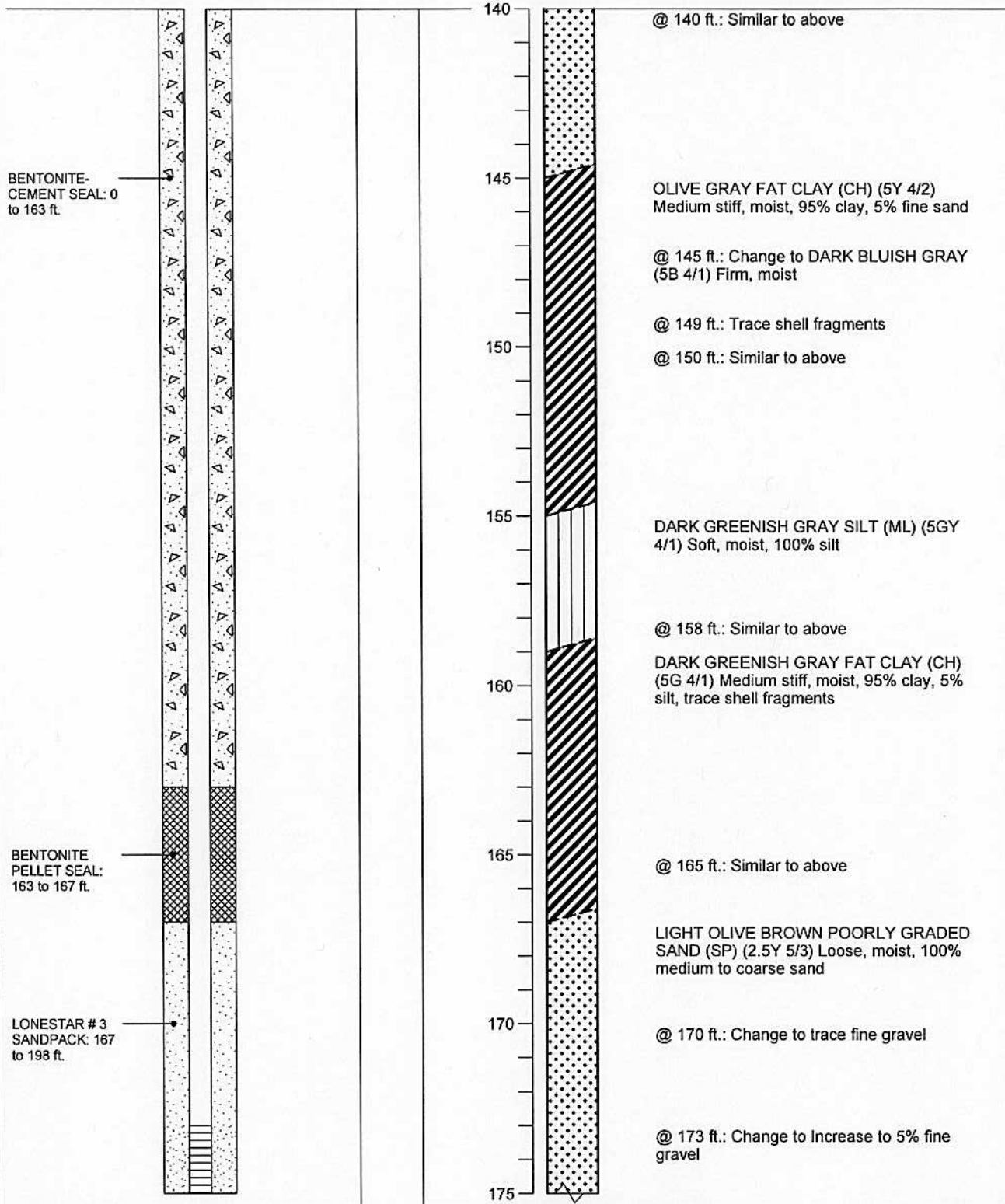
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DATE
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Completion Date 7/30/1998
 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 143.14 ft. Hole Dia. 10 in.
 Northing 2140731.912 Easting 5748342.543

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MW-BW-21-180
 OUCTP

Fort Ord, California

PLATE

A24

DRAWN
 MBP

JOB NUMBER
 55596 001701

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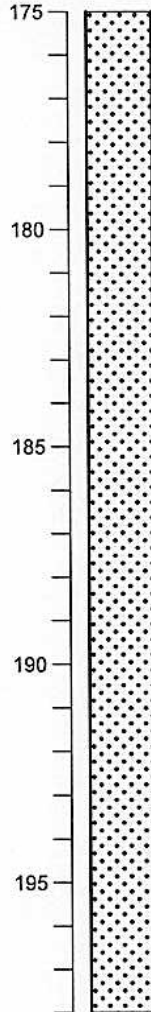
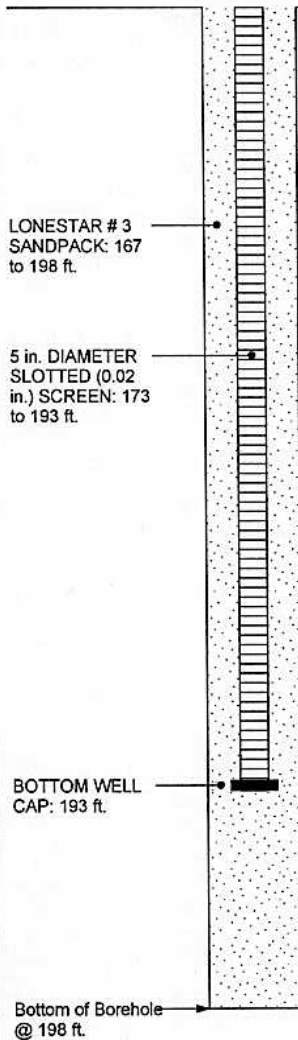
MDT / cur

DATE
 11/04

REVISED DATE

Completion Date 7/30/1998
 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 143.14 ft. Hole Dia. 10 in.
 Northing 2140731.912 Easting 5748342.543

Depth (ft.)
 Sample



@ 175 ft.: Similar to above

@ 180 ft.: Change to YELLOWISH BROWN
 (10YR 5/6) Increase gravel size to 10cm.

@ 185 ft.: Change to Trace gravels to
 30cm.

@ 190 ft.: Similar to above

@ 192 ft.: Change to 5% gravels to 30cm.,
 trace gravels to 50cm.

@ 195 ft.: Change to Fine to medium
 gravels to 10cm., trace gravels to 60cm.

Bottom of boring at 198 ft.

BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-21-180
 OUCTP

Fort Ord, California

PLATE

A24

DRAWN
 MBP

JOB NUMBER
 55596 001701

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MDT / cm

DATE
 11/04

REVISED DATE

Top of PVC Casing
Elev. 155.66 ft.

GROUND SURFACE

Top of casing at
2.8 ft. above
ground level

5 in. DIAMETER
SCHEDULE 40
PVC BLANK
CASING: +1.5 to
177.5 ft.

10 in. DIAMETER
BOREHOLE: 0 to
197.5 ft.

BENTONITE-
CEMENT SEAL: 0
to 170 ft.

Completion Date 7/24/1998

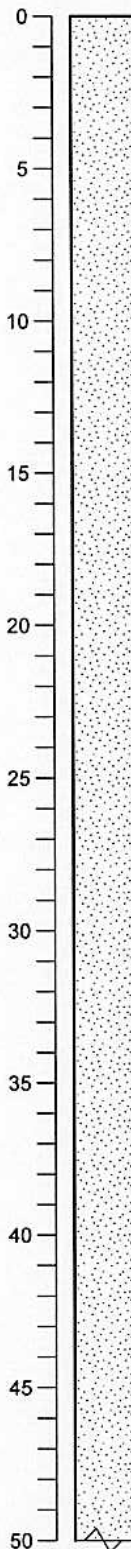
Drilling Method ARCH - Mud Fluid

Logged by _____

Surface Elevation 152.86 ft. Hole Dia. 10 in.

Northing 2140553.4888 Easting 5748198.8418

Depth (ft.)
Sample



BROWN POORLY GRADED SAND (SP)
(10YR 4/3) Loose, moist, 90% fine to
medium sand, 10% silt

@ 5 ft.: Change to YELLOWISH BROWN
(10YR 5/4) 100% fine to medium sand,
Trace silt

@ 32 ft.: Change to YELLOWISH BROWN
(10YR 5/6) Medium dense, 95% fine to
medium sand, 5% silt

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 1/17/05



MACTEC

Well Construction Details and
Log of Boring MW-BW-22-180
OUCTP

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

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DATE
1/05

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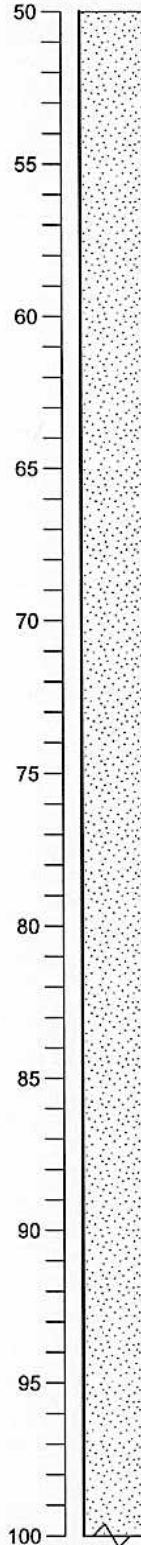
A25

PLATE

Completion Date 7/24/1998
 Drilling Method ARCH - Mud Fluid
 Logged by _____
 Surface Elevation 152.86 ft. Hole Dia. 10 in.
 Northing 2140553.4888 Easting 5748198.8418

Depth (ft.)
 Sample

BENTONITE-
 CEMENT SEAL: 0
 to 170 ft.



@ 53 ft.: Change to BROWNISH YELLOW
 (10YR 6/6) 100% fine to medium sand,
 Trace silt

@ 62 ft.: Change to YELLOWISH BROWN
 (10YR 5/6)

@ 77 ft.: Change to Wet

@ 88 ft.: Change to DARK YELLOWISH
 BROWN (10YR 4/6)

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 1/17/05



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Well Construction Details and
 Log of Boring MW-BW-22-180
 OUCTP

Fort Ord, California

PLATE

A25

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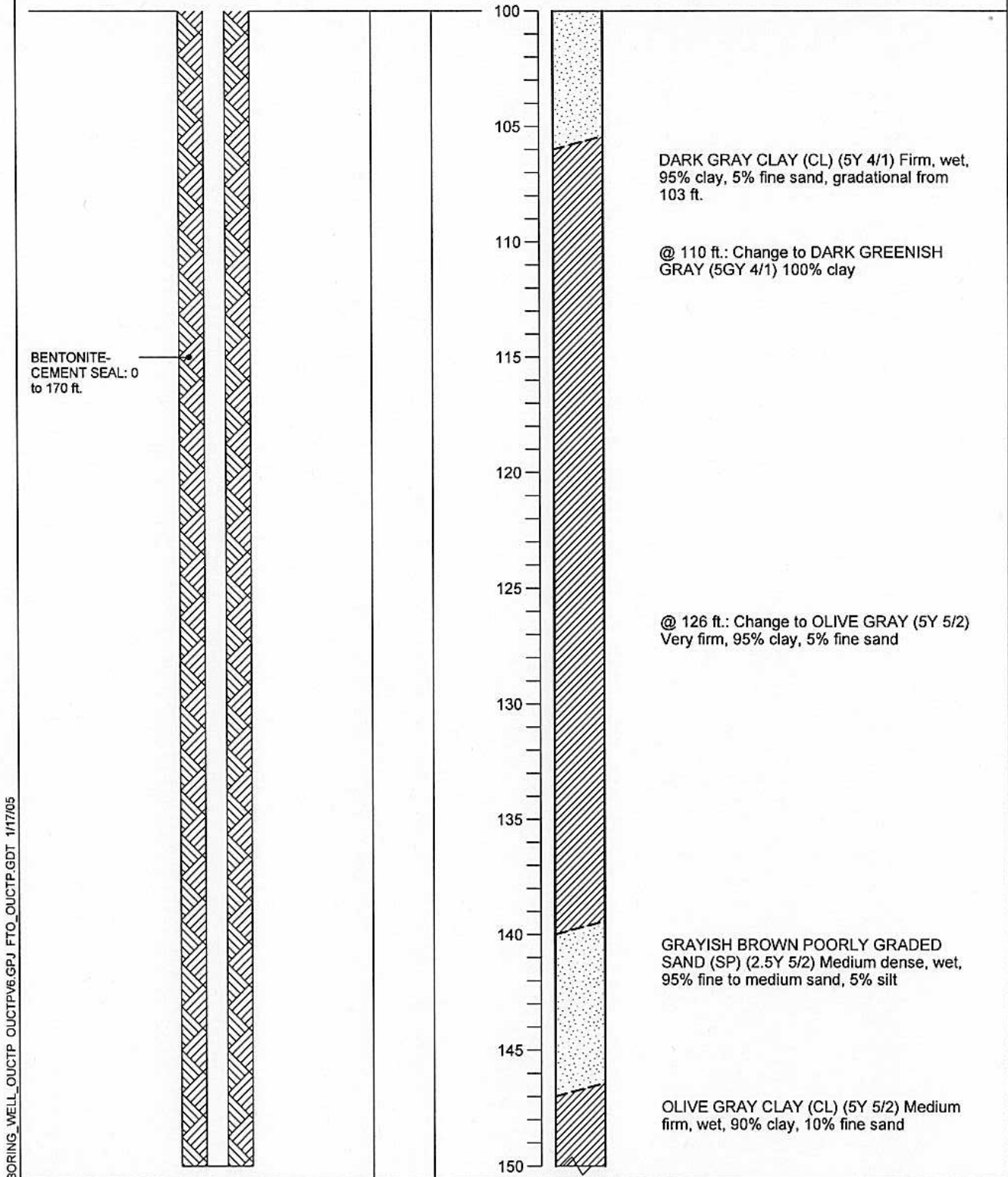
JOB NUMBER
 55596 001701

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 MDT / car

DATE
 1/05

REVISED DATE

Completion Date 7/24/1998
 Drilling Method ARCH - Mud Fluid
 Logged by _____
 Surface Elevation 152.86 ft. Hole Dia. 10 in.
 Northing 2140553.4888 Easting 5748198.8418



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 1/17/05



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Well Construction Details and
 Log of Boring MW-BW-22-180
 OUCTP

PLATE

Fort Ord, California

A25

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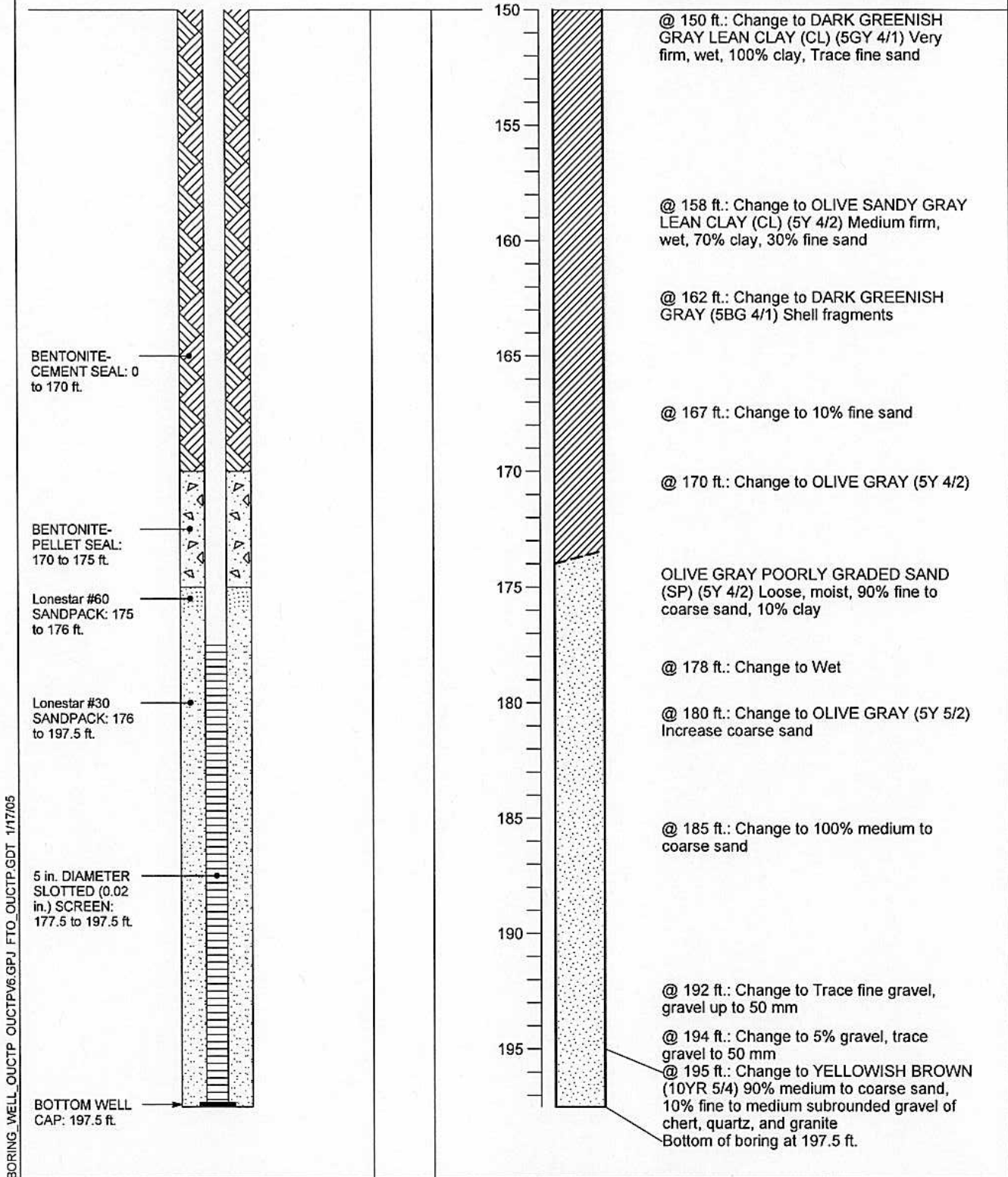
JOB NUMBER
 55596 001701

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 MDT / *[Signature]*

DATE
 1/05

REVISED DATE

Completion Date 7/24/1998
 Drilling Method ARCH - Mud Fluid
 Logged by _____
 Surface Elevation 152.86 ft. Hole Dia. 10 in.
 Northing 2140553.4888 Easting 5748198.8418



BORING WELL OUCTP OUCTPV6.GPJ FTO OUCTP.GDT 1/17/05



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**Well Construction Details and
Log of Boring MW-BW-22-180**
OUCTP

Fort Ord, California

PLATE

A25

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MBP

JOB NUMBER
55596 001701

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DATE
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REVISED DATE

Top of PVC Casing
Elev. 177.63 ft.

GROUND SURFACE
Top of casing at
2.41 ft. above
ground level

5 DIAMETER
SCHEDULE 40
PVC BLANK
CASING: +2.41 to
102.5 ft.

BENTONITE-
CEMENT SEAL: 0
to 95.5 ft.

Completion Date 6/6/2000

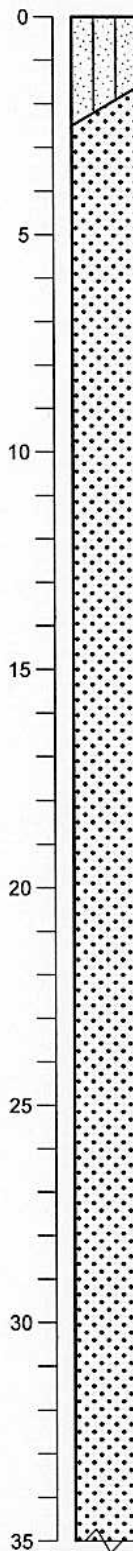
Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 183.4 ft. Hole Dia. 12 in.

Northing 2138585.276 Easting 5748316.589

Depth (ft.)
Sample



VERY DARK GRAYISH BROWN SILTY
SAND (SM) (10YR 3/2) Loose, dry, 60%
fine to coarse sand, 20% silt

DARK BROWN WELL GRADED SAND
(SW) (10YR 3/3) Loose, dry, 90% fine to
coarse sand, 10% silt

@ 5 ft.: Similar to above

@ 10 ft.: Similar to above

@ 12 ft.: YELLOWISH BROWN WELL
GRADED SAND (SW) (10YR 5/6) Loose,
dry, 95% fine to coarse sand, 5% silt

@ 15 ft.: Similar to above

@ 20 ft.: Color change to brownish yellow
(10YR 6/6)

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-23-A
OUCTP

Fort Ord, California

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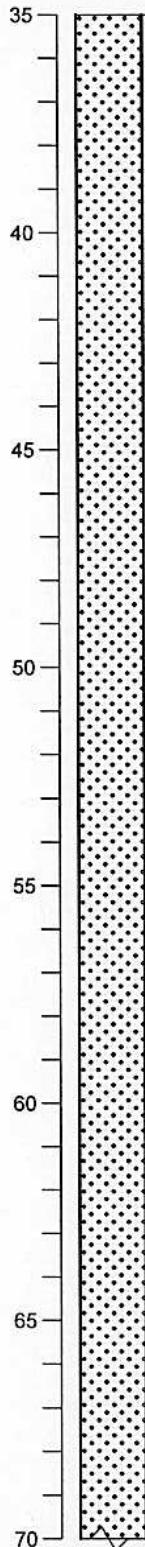
A26

PLATE

BORING WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Completion Date 6/6/2000
Drilling Method Hollow Stem Auger
Logged by _____
Surface Elevation 183.4 ft. Hole Dia. 12 in.
Northing 2138585.276 Easting 5748316.589

Depth (ft.)
Sample



@ 35 ft.: BROWNISH YELLOW WELL GRADED SAND (SW) (10YR 5/6) Loose, dry, 95% fine to coarse sand, 5% silt

@ 40 ft.: Color change to yellowish brown (10YR 5/4)

@ 50 ft.: Similar to above

@ 55 ft.: Similar to above

@ 60 ft.: Similar to above, increasing fine-grained sand

Well Construction Details and
Log of Boring MW-BW-23-A
OUCTP

PLATE



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CSN

JOB NUMBER
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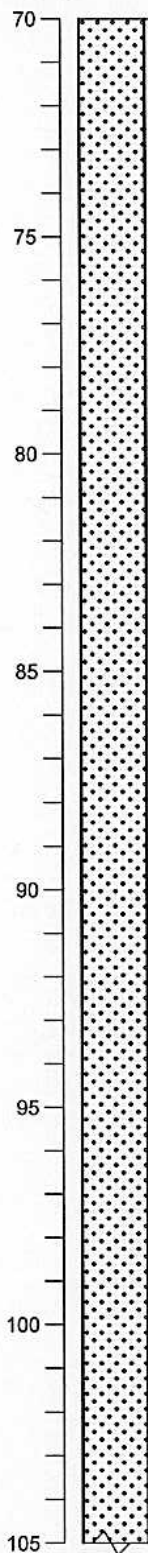
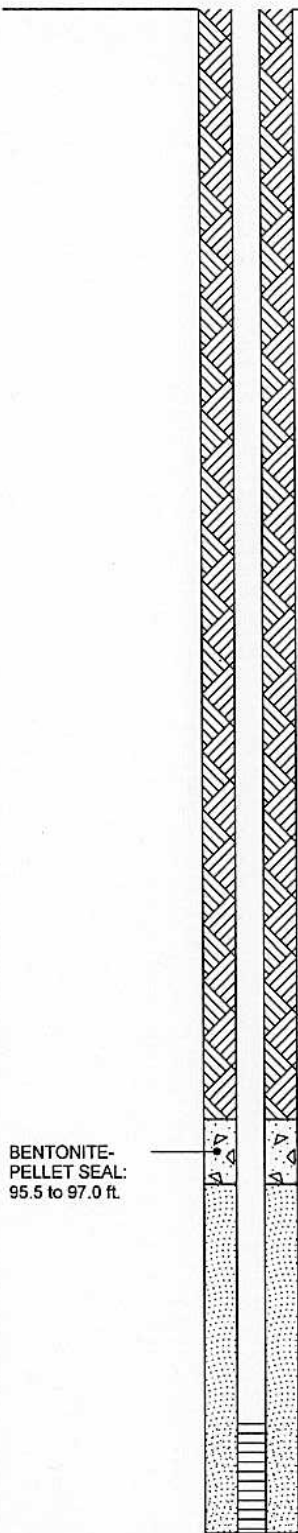
DATE
11/04

REVISED DATE

A26

Completion Date 6/6/2000
 Drilling Method Hollow Stem Auger
 Logged by _____
 Surface Elevation 183.4 ft. Hole Dia. 12 in.
 Northing 2138585.276 Easting 5748316.589

Depth (ft.)
 Sample



@ 70 ft.: Similar to above, increasing coarse-grained sand

 @ 75 ft.: Similar to above

 @ 80 ft.: Similar to above

 @ 90 ft.: Similar to above

 @ 95 ft.: Similar to above, loose, moist

 @ 99 ft.: Bottom of 15 ft. of well grouted
 @ 100 ft.: Similar to above, loose, moist

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

BENTONITE-PELLET SEAL:
 95.5 to 97.0 ft.

Well Construction Details and
 Log of Boring MW-BW-23-A
 OUCTP

PLATE



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Fort Ord, California

A26

DRAWN
 CSN

JOB NUMBER
 55596 001701

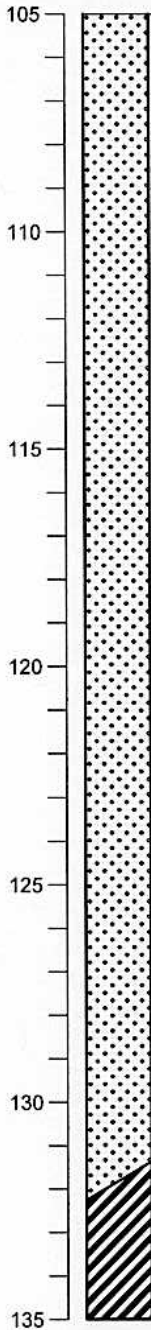
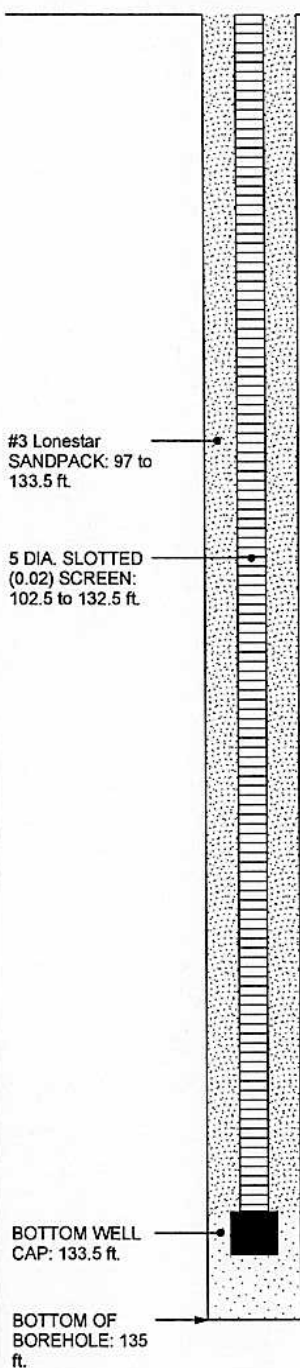
APPROVED
MDT/cmr

DATE
 11/04

REVISED DATE

Completion Date 6/6/2000
 Drilling Method Hollow Stem Auger
 Logged by _____
 Surface Elevation 183.4 ft. Hole Dia. 12 in.
 Northing 2138585.276 Easting 5748316.589

Depth (ft.)
 Sample



@110 ft.: Similar to above, loose, wet

@ 115 ft.: Color change to yellowish brown
 sand (SW) (10YR 5/6)

@ 120 ft.: Similar to above

OLIVE FAT CLAY (CH) (5Y 5/3) Soft, moist,
 85% clay, 10% fine sand, 5% silt

Bottom of boring at 135.0 ft.

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MW-BW-23-A
 OUCTP

Fort Ord, California

PLATE

A26

DRAWN
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 11/04

REVISED DATE

Top of PVC Casing
Elev. 145.99 ft.

GROUND SURFACE
Top of casing at
2.49 ft. above
ground level

5 DIAMETER
SCHEDULE 40
PVC BLANK
CASING: +2.49 to
64.0 ft.

BENTONITE-
CEMENT SEAL: 0
to 59.0 ft.

Completion Date 5/30/2000

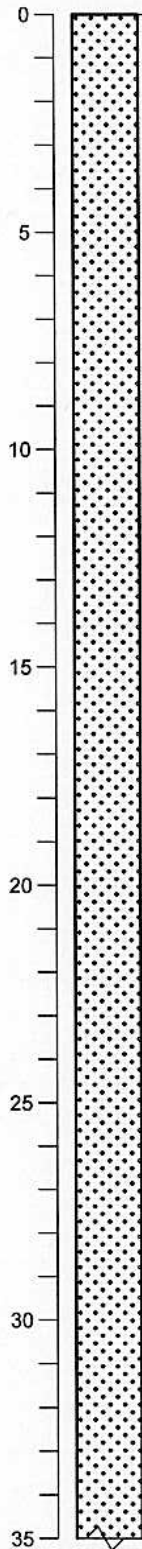
Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 143.5 ft. Hole Dia. 12 in.

Northing 2140120.461 Easting 5747938.658

Depth (ft.)
Sample



DARK YELLOWISH BROWN WELL
GRADED SAND (SW) (10YR 4/4) Loose,
dry, 85% fine to coarse sand, 15% silt
@ 2 ft.: Yellowish brown well graded sand
(SW) (10YR 5/4), loose, dry, 90% fine to
coarse sand, 10% silt

@ 10 ft.: Color change to (10YD 5/6)

@ 15 ft.: Similar to above, 95% fine to
coarse sand, 5% silt

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-24-A

OUCTP

Fort Ord, California

DRAWN
CSN

JOB NUMBER
55596 001701

APPROVED

MDT / CM

DATE
11/04

REVISED DATE

A27

PLATE

Completion Date 5/30/2000
 Drilling Method Hollow Stem Auger
 Logged by _____
 Surface Elevation 143.5 ft. Hole Dia. 12 in.
 Northing 2140120.461 Easting 5747938.658

Depth (ft.)
 Sample

35
40
45
50
55
60
65
70

@ 35 ft.: Similar to above

@ 45 ft.: Similar to above

@ 55 ft.: Similar to above

@ 65 ft.: Similar to above

BENTONITE-
 PELLET SEAL: 59
 to 60.5 ft.

BORING_WELL_OUCTP OUCTPV8.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-24-A
 OUCTP

Fort Ord, California

PLATE

A27

DRAWN
 CSN

JOB NUMBER
 55596 001701

APPROVED
MDT / am

DATE
 11/04

REVISED DATE

Completion Date 5/30/2000
 Drilling Method Hollow Stem Auger
 Logged by _____
 Surface Elevation 143.5 ft. Hole Dia. 12 in.
 Northing 2140120.461 Easting 5747938.658

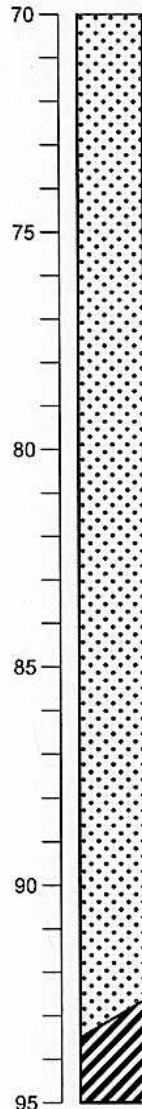
Depth (ft.)
 Sample

#3 Lonestar
 SANDPACK: 60.5
 to 95.0 ft.

5 DIA. SLOTTED
 (0.02) SCREEN:
 64.0 to 94.0 ft.

BOTTOM WELL
 CAP: 94.0 ft

BOTTOM OF
 BOREHOLE: 95 ft



@ 75 ft.: Color change to yellowish brown
 well graded sand (SW) (10YR 6/6), loose,
 moist, 90% fine to coarse sand, 10% silt

@ 85 ft.: Similar to above

OLIVE FAT CLAY (CH) (5Y 5/2) Stiff,
 moist, 85% clay, 10% silt, 5% fine sand

@ 95 ft.: Similar to above Bottom of boring
 at 95 ft.

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-24-A
 OUCTP

Fort Ord, California

PLATE

A27

DRAWN
 CSN

JOB NUMBER
 55596 001701

APPROVED

NOT / cm

DATE
 11/04

REVISED DATE

Top of PVC Casing
Elev. 146.59 ft.

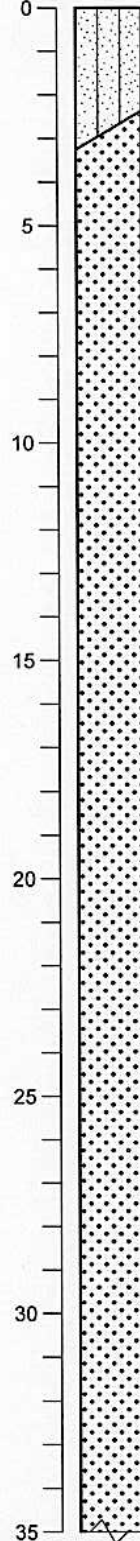
GROUND SURFACE
Top of casing at
2.49 ft. above
ground level

5 DIAMETER
SCHEDULE 40
PVC BLANK
CASING: +2.49 ft.
to 217.0 ft.

BENTONITE-
CEMENT SEAL: 0
to 182.0 ft.

Completion Date 6/20/2000
Drilling Method ARCH - Mud Fluid
Logged by _____
Surface Elevation 144.1 ft. Hole Dia. 11 in.
Northing 2140172.382 Easting 5748225.92

Depth (ft.)
Sample



DARK GRAYISH BROWN SILTY SAND
(SM) (2.5Y 4/2) Loose, dry, 80% fine to
coarse sand, 20% silt

DARK GRAYISH BROWN WELL-GRADED
SAND (SW) (2.5Y 4/2) Loose, dry, 90%
fine to coarse sand, 10% silt

@ 7 ft.: DARK YELLOWISH BROWN
WELL GRADED SAND (SW) (10YR 4/4)
Loose, dry, 90% fine to coarse sand, 10%
silt

YELLOWISH BROWN WELL-GRADED
SAND (10YR 5/6), loose, dry, 95% fine to
coarse sand, 5% silt

@ 15 ft.: Similar to above

@ 20 ft.: Similar to above

@ 30 ft.: Similar to above

BORING WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-25-180
OUCTP

PLATE

Fort Ord, California

A28

DRAWN
CSN

JOB NUMBER
55596 001701

APPROVED

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DATE
11/04

REVISED DATE

BORING WELL OUCTP OUCTPV6 GPJ FTO OUCTP.GDT 11/24/04

Completion Date 6/20/2000
Drilling Method ARCH - Mud Fluid
Logged by _____
Surface Elevation 144.1 ft. Hole Dia. 11 in.
Northing 2140172.382 Easting 5748225.92

Depth (ft.)
Sample

35
40
45
50
55
60
65
70

@ 35 ft.: Similar to above

YELLOWISH BROWN WELL-GRADED
SAND (SW) (10YR 5/4), loose, 95% fine to
coarse sand, 5% silt

@ 47 ft.: Increasing fine-grained sand

@ 50 ft.: Similar to above

@ 55 ft.: Similar to above

YELLOWISH BROWN POORLY-GRADED
SAND (SP) (10YR 5/4) Loose, 95% fine to
medium sand, 5% silt



MACTEC

Well Construction Details and
Log of Boring MW-BW-25-180
OUCTP

Fort Ord, California

PLATE

A28

DRAWN
CSN

JOB NUMBER
55596 001701

APPROVED

MDT / cur

DATE
11/04

REVISED DATE

Completion Date 6/20/2000

Drilling Method ARCH - Mud Fluid

Logged by _____

Surface Elevation 144.1 ft. Hole Dia. 11 in.

Northing 2140172.382 Easting 5748225.92

Depth (ft.)
Sample

70
75
80
85
90
95
100
105

@ 70 ft.: Similar to above

YELLOWISH BROWN WELL-GRADED
SAND (SW) (10YR 5/4) Loose, 100% fine
to coarse sand

YELLOWISH BROWN POORLY-GRADED
SAND (SP) (10YR 5/4) Loose, 95% fine to
medium sand, 5% silt

@ 90 ft.: Similar to above

@ 95 ft.: Similar to above, 90% fine to
medium sand, 10% silt

OLIVE FAT CLAY WITH SAND (CH) (5Y
4/3) Soft, moist, 75% clay, 25% fine to
coarse sand, trace gravel to 2 cm

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-25-180
OUCTP

Fort Ord, California

PLATE

A28

DRAWN
CSN

JOB NUMBER
55596 001701

APPROVED

MDT / am

DATE
11/04

REVISED DATE

Completion Date 6/20/2000

Drilling Method ARCH - Mud Fluid

Logged by _____

Surface Elevation 144.1 ft. Hole Dia. 11 in.

Northing 2140172.382 Easting 5748225.92

Depth (ft.)
Sample

105

@ 105 ft.: Similar to above

110

@ 110 ft.: Similar to above

115

@ 115 ft.: Similar to above

120

@ 120 ft.: Similar to above

125

@ 125 ft.: Similar to above

130

@ 130 ft.: Similar to above

135

DARK GREENISH GRAY FAT CLAY WITH
SAND (CH) (5G 4/1) Soft, moist, 85% clay,
15% fine to coarse sand

140

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-25-180

OUCTP

Fort Ord, California

PLATE

A28

DRAWN
CSN

JOB NUMBER
55596 001701

APPROVED

MDT / car

DATE
11/04

REVISED DATE

Completion Date 6/20/2000
 Drilling Method ARCH - Mud Fluid
 Logged by _____
 Surface Elevation 144.1 ft. Hole Dia. 11 in.
 Northing 2140172.382 Easting 5748225.92

Depth (ft.)
 Sample

140
145
150
155
160
165
170
175

@ 140 ft.: Similar to above, 90% clay, 10% fine sand

@ 145 ft.: Similar to above

@ 150 ft.: Similar to above

@ 155 ft.: Similar to above

OLIVE GRAY CLAYEY SAND (SC) (5Y 4/2)
 Loose, wet, 70% fine to coarse sand, 30% fat clay

OLIVE WELL-GRADED SAND (SW) (5Y 4/3)
 Loose, wet, 90% fine to coarse sand, 10% silt

@ 170 ft.: Similar to above

BORING WELL OUCTP OUCTPV&GPJ FTO OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-25-180
 OUCTP

Fort Ord, California

PLATE

A28

DRAWN
 CSN

JOB NUMBER
 55596 001701

APPROVED

MOT / car

DATE
 11/04

REVISED DATE

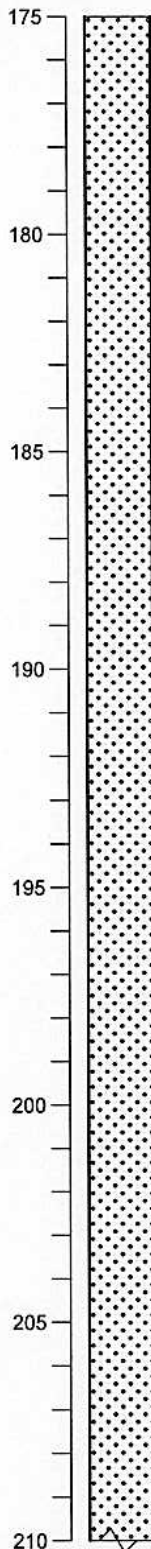
Completion Date 6/20/2000
 Drilling Method ARCH - Mud Fluid
 Logged by _____
 Surface Elevation 144.1 ft. Hole Dia. 11 in.
 Northing 2140172.382 Easting 5748225.92

Depth (ft.)
 Sample

BENTONITE-
 PELLET SEAL:
 182.0 to 190.5 ft

#3 Lonestar
 SANDPACK: 190.5
 to 217.0 ft.

5 DIA. SLOTTED
 (0.02) SCREEN:
 197.0 to 217.0 ft.



@ 175 ft.: Similar to above, increasing
 coarse-grained sand

@ 180 ft.: Similar to above

@ 190 ft.: Similar to above

@ 195 ft.: Similar to above, increasing
 coarse-grained sand

@ 200 ft.: Similar to above

@ 205 ft.: Similar to above

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-25-180
 OUCTP

Fort Ord, California

PLATE

A28

DRAWN
 CSN

JOB NUMBER
 55596 001701

APPROVED
MDT / cm

DATE
 11/04

REVISED DATE

Completion Date 6/20/2000

Drilling Method ARCH - Mud Fluid

Logged by _____

Surface Elevation 144.1 ft.

Hole Dia. 11 in.

Northing 2140172.382

Easting 5748225.92

Depth (ft.)
Sample

BOTTOM OF
BOREHOLE:
217.0 ft.
BOTTOM WELL
CAP: 217.0 ft.

210

215

@ 210 ft.: Similar to above, 15% silt

@ 212 ft.: Increase in fine-grained sand

OLIVE SILTY SAND (SM) (5Y 4/3) Dense,
70% fine to medium sand, 30% silt, drill rod
chattering

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-25-180
OUCTP

Fort Ord, California

PLATE

A28

DRAWN
CSN

JOB NUMBER
55596 001701

APPROVED

MDT / cm

DATE
11/04

REVISED DATE

Top of PVC Casing
Elev. 143.58 ft.

GROUND SURFACE
Top of casing at
1.78 ft. above
ground level

5 DIAMETER
SCHEDULE 40
PVC BLANK
CASING: +1.78 to
68.0 ft.

BENTONITE-
CEMENT SEAL: 0
to 61.0 ft.

Completion Date 6/1/2000

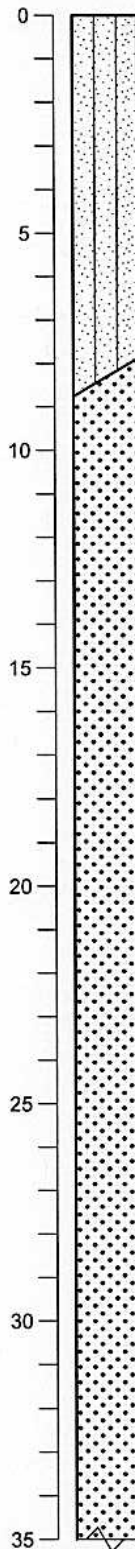
Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 141.8 ft. Hole Dia. 12 in.

Northing 2140037.403 Easting 5748402.508

Depth (ft.)
Sample



LIGHT OLIVE BROWN SILTY SAND (SM)
(2.5Y 5/3) Loose, dry, 80% fine to coarse
sand, 20% silt

@ 5 ft.: Decrease in silt to 15%

DARK BROWN WELL GRADED SAND
(SW) (10YR 3/3) Loose, dry, 95% fine to
coarse sand, 5% silt

@ 13 ft.: Color change to yellowish brown
well graded sand (SW) (10YR 5/4), loose,
dry, 100% fine to coarse sand

@ 20 ft.: Similar to above

@ 30 ft.: Similar to above

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-25-A

OUCTP

Fort Ord, California

PLATE

A29

DRAWN
CSN

JOB NUMBER
55596 001701

APPROVED

MDT / am

DATE
11/04

REVISED DATE

Completion Date 6/1/2000
 Drilling Method Hollow Stem Auger
 Logged by _____
 Surface Elevation 141.8 ft. Hole Dia. 12 in.
 Northing 2140037.403 Easting 5748402.508

Depth (ft.)
 Sample

35

@ 35 ft.: Similar to above

40

@ 40 ft.: Color change to yellowish brown
 (10YR 5/6), loose, moist

45

50

@ 50 ft.: Similar to above

55

@ 55 ft.: Color change to yellowish brown
 well graded sand (10YR 5/4)

60

@ 60.0 ft.: Similar to above

65

70

BENTONITE-
 PELLET SEAL:
 61.0 to 63.0 ft.

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-25-A
 OUCTP

PLATE

Fort Ord, California

A29

DRAWN
 CSN

JOB NUMBER
 55596 001701

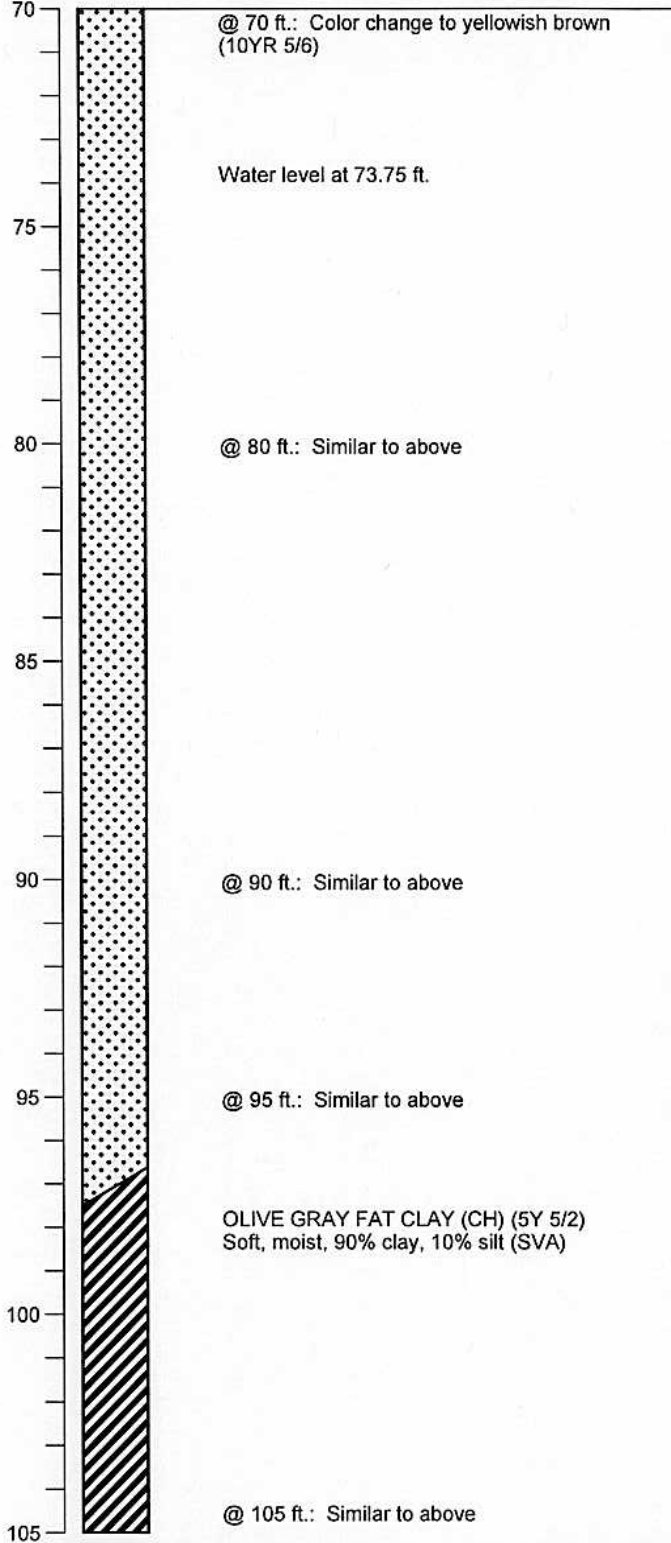
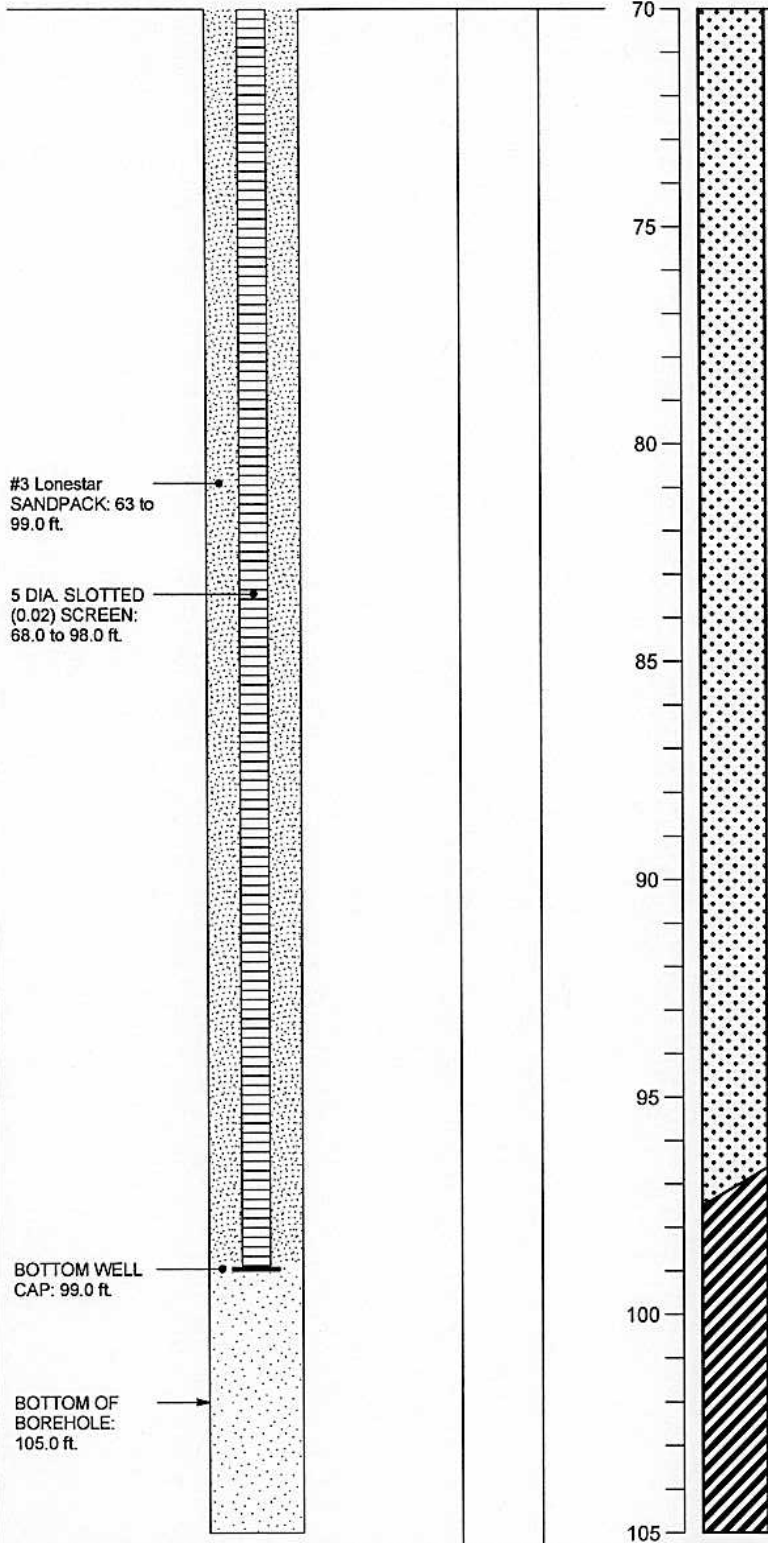
APPROVED
 MDT / *lcn*

DATE
 11/04

REVISED DATE

Completion Date 6/1/2000
 Drilling Method Hollow Stem Auger
 Logged by _____
 Surface Elevation 141.8 ft. Hole Dia. 12 in.
 Northing 2140037.403 Easting 5748402.508

Depth (ft.)
 Sample



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-25-A
 OUCTP

Fort Ord, California

PLATE

A29

DRAWN
 CSN

JOB NUMBER
 55596 001701

APPROVED
 MDT / CUN

DATE
 11/04

REVISED DATE

Top of PVC Casing
Elev. 165.21 ft.

GROUND SURFACE
Top of casing at
1.51 ft. above
ground level

5 DIAMETER
SCHEDULE 40
PVC BLANK
CASING: +1.51 ft.
to 227.0 ft.

BENTONITE-
CEMENT SEAL: 0
to 210.0 ft.

Completion Date 6/22/2000

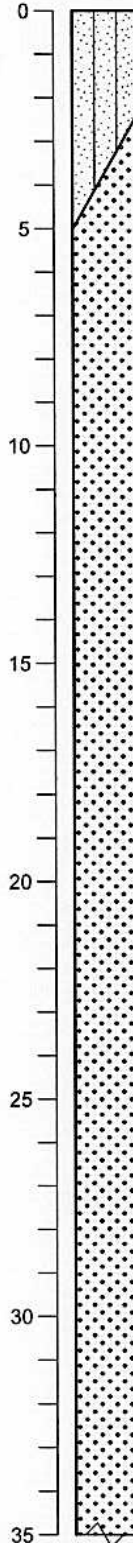
Drilling Method ARCH - Mud Fluid

Logged by _____

Surface Elevation 163.7 ft. Hole Dia. 10 5/8 in.

Northing 2141055.189 Easting 5747063.385

Depth (ft.)
Sample



OLIVE SILTY SAND (SM) (5Y 4/4) Loose,
dry, 75% fine to coarse sand, 25% silt

BROWN WELL-GRADED SAND (SW)
(10YR 4/3), Loose, dry, 90% fine to coarse
sand, 10% silt

@ 7 ft.: Color change to yellowish brown
(10YR 5/4), well-graded sand

@ 15 ft.: Color change to yellowish brown
well-graded sand (SW) (10YR 5/6), loose,
dry, 95% fine to coarse sand, 5% silt

@ 20 ft.: Color change to yellowish brown
(10YR 5/4), loose

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above, increasing
coarse-grained sand

BORING_WELL_OUCTP_OUCTPV6.GPJ_FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-26-180
OUCTP

Fort Ord, California

PLATE

A30

DRAWN
CSN

JOB NUMBER
55596 001701

APPROVED
MDT / cm

DATE
11/04

REVISED DATE

Completion Date 6/22/2000

Drilling Method ARCH - Mud Fluid

Logged by _____

Surface Elevation 163.7 ft.

Hole Dia. 10 5/8 in.

Northing 2141055.189

Easting 5747063.385

Depth (ft.)
Sample

35

@ 35 ft.: Similar to above

40

@ 40 FT.: Similar to above

45

@ 45 FT.: Similar to above

50

@ 50 FT.: Similar to above

55

@ 55 ft.: Similar to above

60

@ 60 FT.: Similar to above

65

@ 65 FT.: Similar to above

70

BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-26-180
OUCTP

Fort Ord, California

PLATE

A30

DRAWN
CSN

JOB NUMBER
55596 001701

APPROVED

MDT / am

DATE
11/04

REVISED DATE

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Completion Date 6/22/2000

Drilling Method ARCH - Mud Fluid

Logged by _____

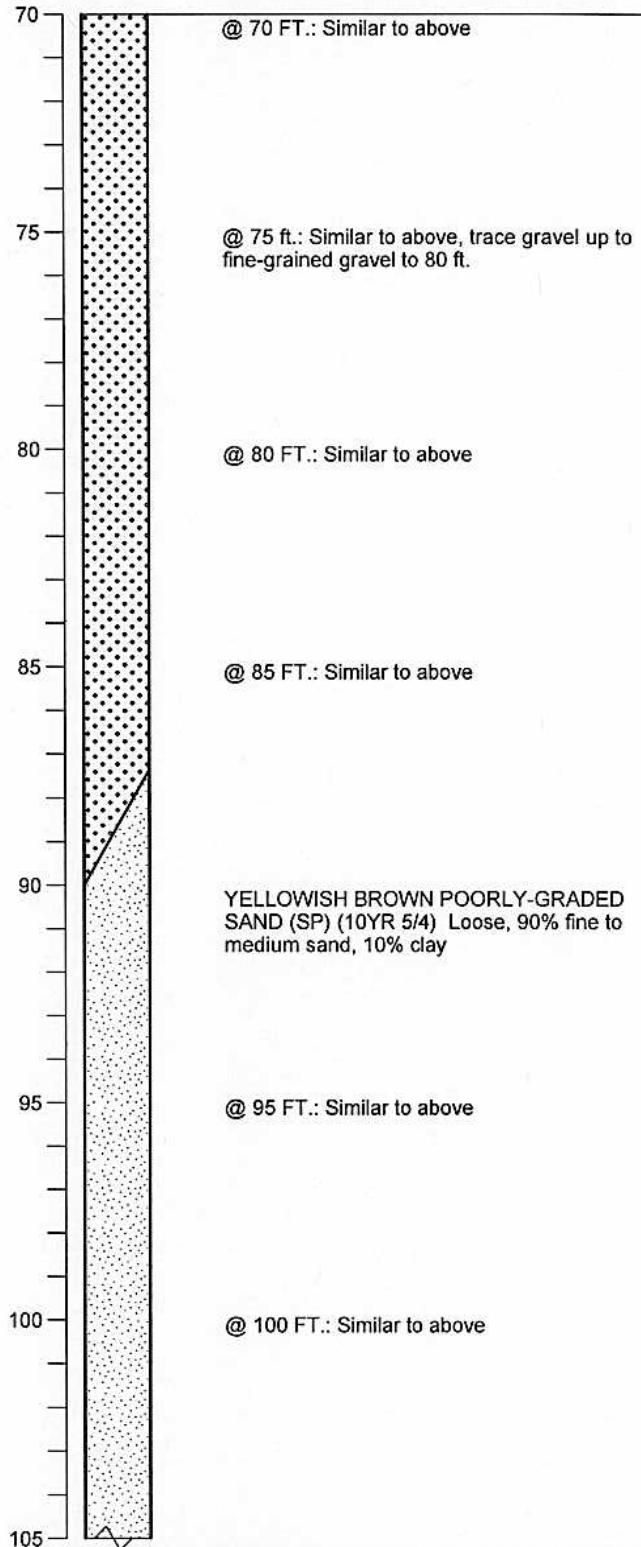
Surface Elevation 163.7 ft.

Hole Dia. 10 5/8 in.

Northing 2141055.189

Easting 5747063.385

Depth (ft.)
Sample



Well Construction Details and
Log of Boring MW-BW-26-180
OUCTP

PLATE



MACTEC

Fort Ord, California

DRAWN
CSN

JOB NUMBER
55596 001701

APPROVED

WST / cm

DATE
11/04

REVISED DATE

A30

Completion Date 6/22/2000

Drilling Method ARCH - Mud Fluid

Logged by _____

Surface Elevation 163.7 ft.

Hole Dia. 10 5/8 in.

Northing 2141055.189

Easting 5747063.385

Depth (ft.)
Sample

105

@ 105 FT.: Similar to above

110

@ 110 FT.: Similar to above

115

@ 115 ft.: Similar to above

120

@ 120 FT.: Similar to above

125

@ 125 FT.: Similar to above

130

@ 130 FT.: Similar to above

135

LIGHT YELLOWISH BROWN SANDY FAT
CLAY (CH) (2.5Y 6/3) Soft, moist, 70%
clay, 30% fine sand

OLIVE FAT CLAY WITH SAND (CH) (5Y
5/3), soft, moist, 80% clay, 20% fine sand

140

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-26-180

OUCTP

Fort Ord, California

PLATE

A30

DRAWN
CSN

JOB NUMBER
55596 001701

APPROVED

[Signature]

DATE
11/04

REVISED DATE

Completion Date 6/22/2000

Drilling Method ARCH - Mud Fluid

Logged by _____

Surface Elevation 163.7 ft. Hole Dia. 10 5/8 in.

Northing 2141055.189 Easting 5747063.385

Depth (ft.)
Sample

140

@ 140 FT.: Similar to above

145

@ 145 FT.: Similar to above

150

LIGHT OLIVE BROWN POORLY GRADED
SAND (SP) (2.5Y 5/4) Loose, wet, 90% fine
to medium sand, 10% fat clay

155

@ 155 FT.: Similar to above

160

OLIVE FAT CLAY (CH) (5Y 5/3) Medium
stiff, moist, 95% clay, 5% fine sand

165

DARK GREENISH GRAY FAT CLAY (CH)
(5G 4/1) Stiff, moist, 95% clay, 5% fine
sand

170

@ 170 FT.: Similar to above

175

DARK GREENISH GRAY SILTY SAND
(SM) (5BG 4/1) Loose, wet, 70% fine sand,
30% silt

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-26-180

OUCTP

Fort Ord, California

PLATE

A30

DRAWN
CSN

JOB NUMBER
55596 001701

APPROVED

MDT / cm

DATE
11/04

REVISED DATE

Completion Date 6/22/2000

Drilling Method ARCH - Mud Fluid

Logged by _____

Surface Elevation 163.7 ft. Hole Dia. 10 5/8 in.

Northing 2141055.189 Easting 5747063.385

Depth (ft.)
Sample

175

180

185

190

195

200

205

210

DARK GREEN GRAY FAT CLAY (CH) (5G
4/1) Medium stiff, moist, 95% clay, 5% fine
sand

@ 185 FT.: Similar to above

OLIVE WELL-GRADED SAND (SW) (5Y
5/3) Loose, wet, 90% fine to coarse sand,
10% fat clay

@ 195 ft.: Similar to above

@ 200 ft.: Increase in coarse-grained sand
NOTE: If gravels exist, they may have been
chewed up by Tricone Rotary Bit

@ 205 FT.: Similar to above

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

DRAWN
CSN

JOB NUMBER
55596 001701

Well Construction Details and
Log of Boring MW-BW-26-180
OUCTP

Fort Ord, California

APPROVED

MDT / Lm

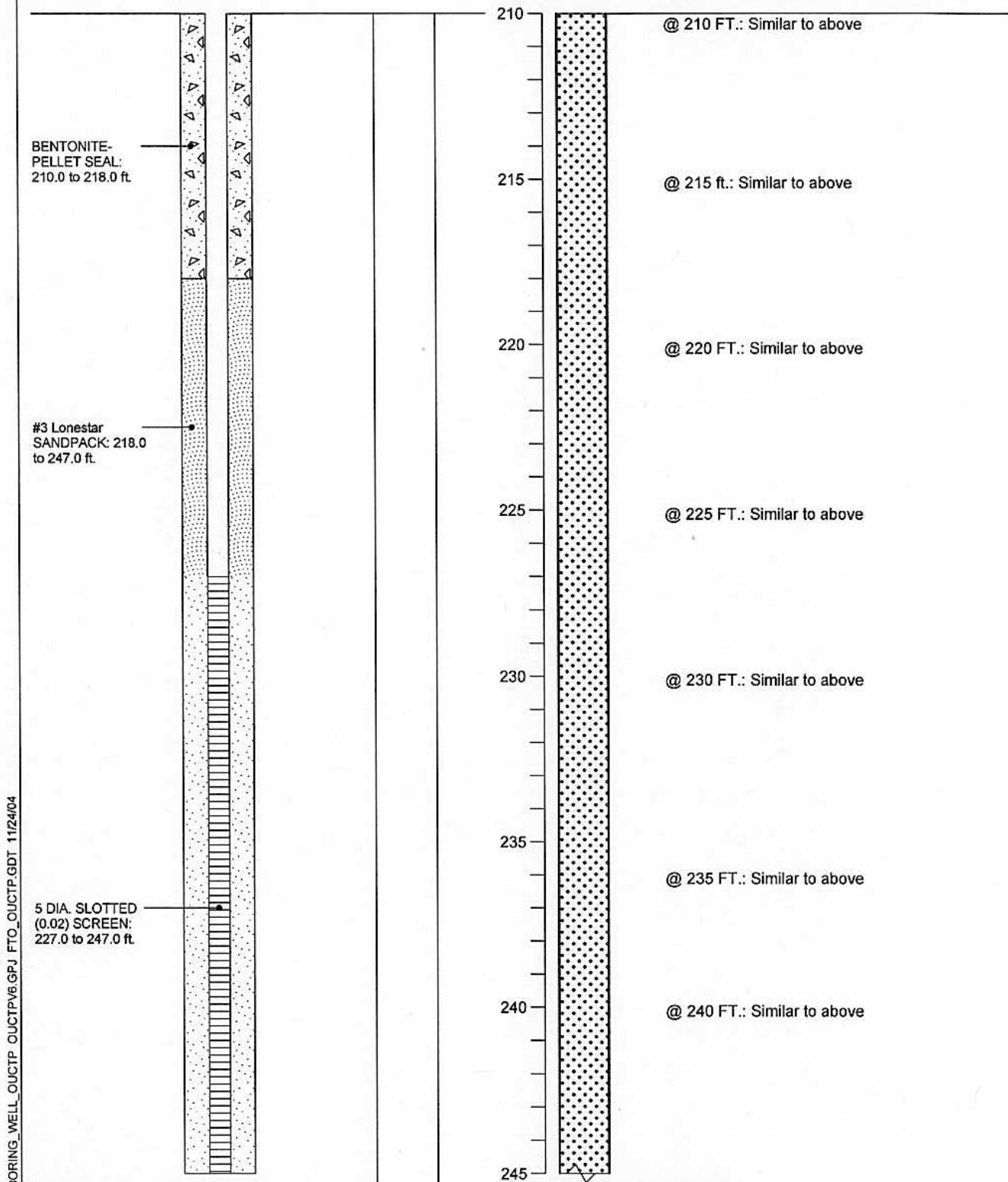
DATE
11/04

REVISED DATE

A30

PLATE

Completion Date 6/22/2000
 Drilling Method ARCH - Mud Fluid
 Logged by _____
 Surface Elevation 163.7 ft. Hole Dia. 10 5/8 in.
 Northing 2141055.189 Easting 5747063.385



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

**Well Construction Details and
Log of Boring MW-BW-26-180**
OUCTP

PLATE

A30

DRAWN
CSN

JOB NUMBER
55596 001701

Fort Ord, California

APPROVED

MDT / am

DATE
11/04

REVISED DATE

Completion Date 6/22/2000
 Drilling Method ARCH - Mud Fluid
 Logged by _____
 Surface Elevation 163.7 ft. Hole Dia. 10 5/8 in.
 Northing 2141055.189 Easting 5747063.385

Depth (ft.)
 Sample

245

BOTTOM OF
 BOREHOLE:
 248.0 ft.
 BOTTOM WELL
 CAP: 248.0 ft.



LIGHT OLIVE BROWN CLAYEY SAND
 (SC) (2.5Y 5/3) Medium dense, 70% fine
 sand, 30% clay

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-26-180
 OUCTP

Fort Ord, California

PLATE

A30

DRAWN
 CSN

JOB NUMBER
 55596 001701

APPROVED

MAT / am

DATE
 11/04

REVISED DATE

Top of PVC Casing
Elev. **165.51 ft.**

GROUND SURFACE
Top of casing at
2.11 ft. above
ground level

5 DIAMETER
SCHEDULE 40
PVC BLANK
CASING: +2.11 ft.
to 101.0 ft.

BENTONITE-
CEMENT SEAL: 0
to 91.0 ft.

Completion Date 6/19/2000

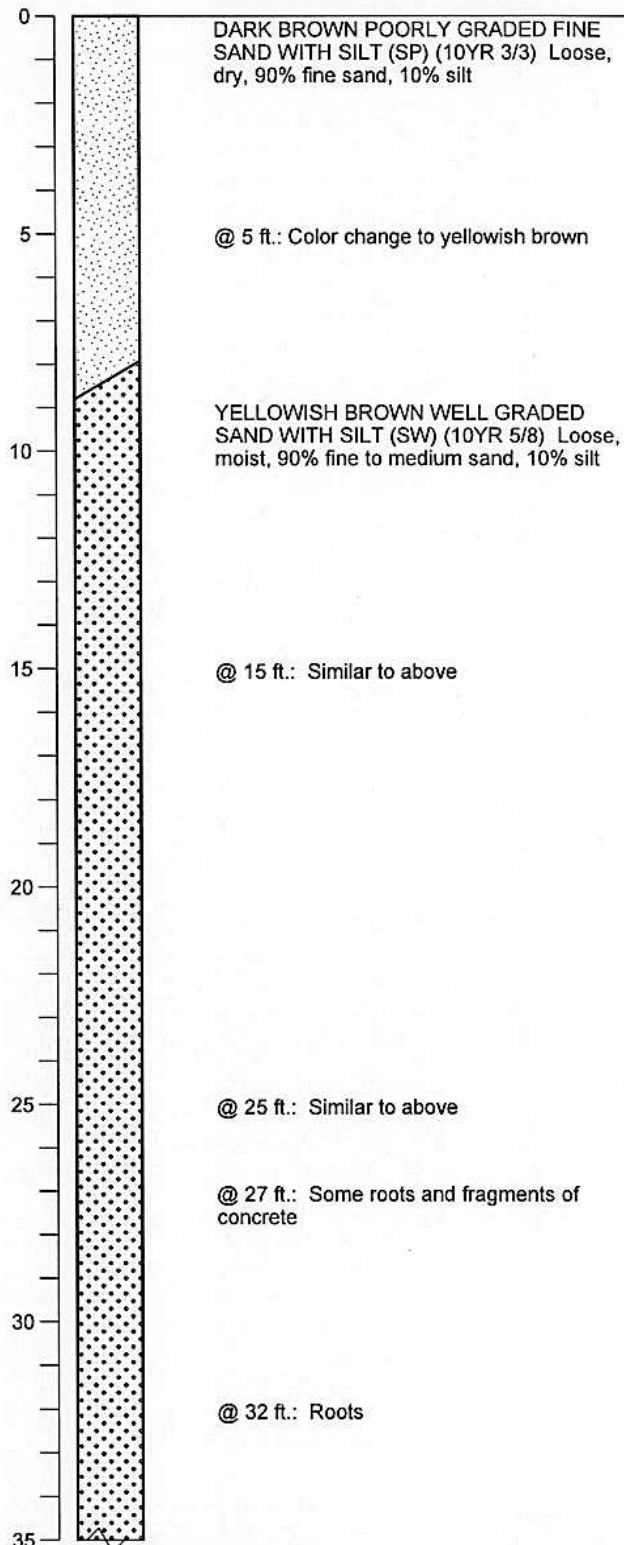
Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 163.4 ft. Hole Dia. 12 in.

Northing 2140994.848 Easting 5747191.669

Depth (ft.)
Sample



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

**Well Construction Details and
Log of Boring MW-BW-26-A**
OUCTP

PLATE

Fort Ord, California

DRAWN
CSN

JOB NUMBER
55596 001701

APPROVED
MDT/aw

DATE
11/04

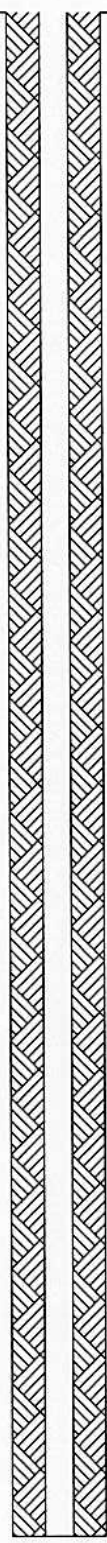
REVISED DATE

A31

Completion Date 6/19/2000
 Drilling Method Hollow Stem Auger
 Logged by _____
 Surface Elevation 163.4 ft. Hole Dia. 12 in.
 Northing 2140994.848 Easting 5747191.669

Depth (ft.)
 Sample

35
40
45
50
55
60
65
70



Increase in moisture

@ 45 ft.: Similar to above

@ 48 ft.: Color change to dark brown
(7.5YR 4/3)

@ 50 ft.: Color change to yellowish brown
(10YR 5/4)

@ 55 ft.: Similar to above

@ 65 ft.: Similar to above

BORING WELL OUCTP OUCTPV6 GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-26-A
 OUCTP

PLATE

A31

Fort Ord, California

DRAWN
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JOB NUMBER
 55596 001701

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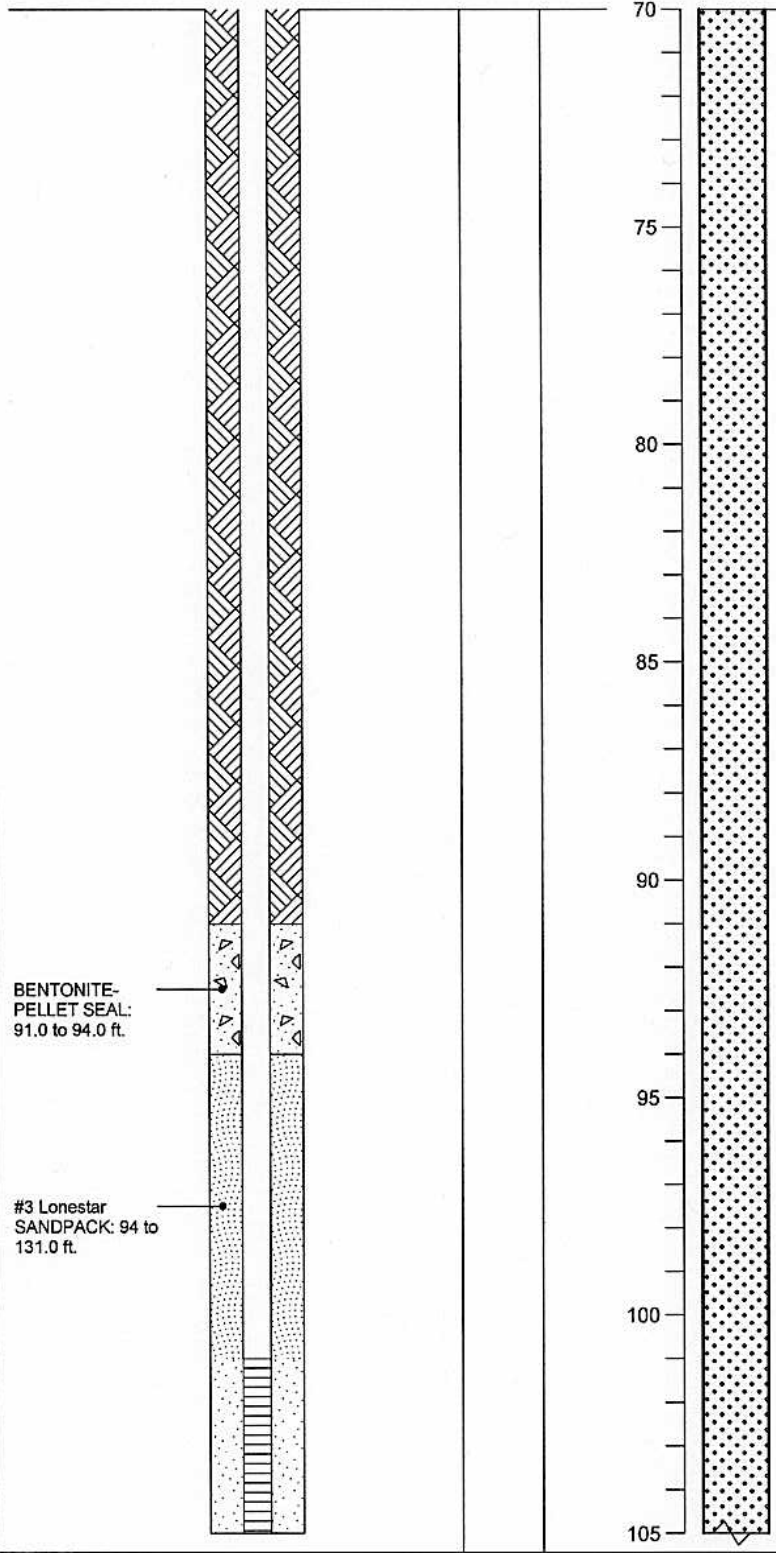
DATE
 11/04

REVISED DATE

Completion Date 6/19/2000
 Drilling Method Hollow Stem Auger
 Logged by _____
 Surface Elevation 163.4 ft. Hole Dia. 12 in.
 Northing 2140994.848 Easting 5747191.669

Depth (ft.)
 Sample

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



@ 75 ft.: Similar to above

@ 85 ft.: Similar to above

@ 87 ft.: Color change to grayish brown (10YR 5/2)

Water level @ 94.5 ft.



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**Well Construction Details and
 Log of Boring MW-BW-26-A**
 OUCTP

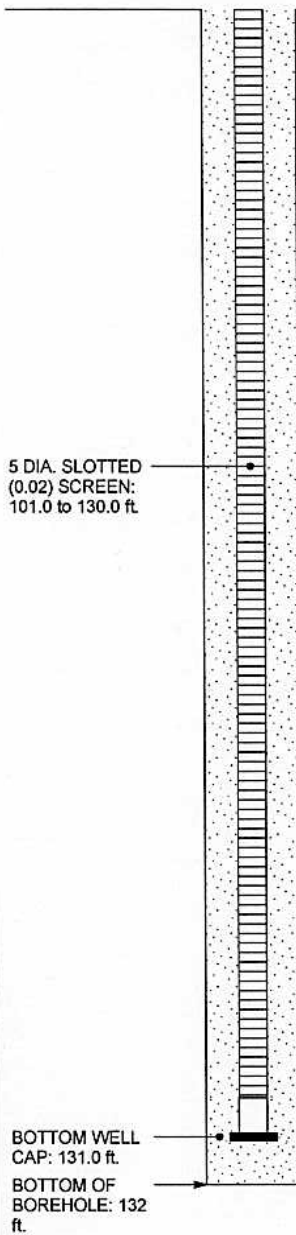
PLATE

A31

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CSN	55596 001701	<i>MDT / am</i>	11/04	

Completion Date 6/19/2000
 Drilling Method Hollow Stem Auger
 Logged by _____
 Surface Elevation 163.4 ft. Hole Dia. 12 in.
 Northing 2140994.848 Easting 5747191.669

Depth (ft.)
 Sample



105
 110
 115
 120
 125
 130

@ 105 ft.: Similar to above

@ 115 ft.: Similar to above

@ 125 ft.: Similar to above

@ 132 ft.: LIGHT YELLOWISH BROWN
 FAT CLAY (CH) (10YR 6/4) Medium stiff,
 wet, 5% silt
 NOTE: Confirm that driller touched clay
 with auger by looking at the drill bit on lead
 auger after being taken out of the ground.

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MW-BW-26-A
 OUCTP

PLATE

Fort Ord, California

DRAWN
 CSN

JOB NUMBER
 55596 001701

APPROVED
MDT / cm

DATE
 11/04

A31
 REVISED DATE

Top of PVC Casing
Elev. 155.79 ft.

GROUND SURFACE
Top of casing at
2.09 ft. above
ground level

5 DIAMETER
SCHEDULE 40
PVC BLANK
CASING: +2.09 ft.
to 79.0 ft.

BENTONITE-
CEMENT SEAL: 0
to 71.5 ft.

Completion Date 6/22/2000
Drilling Method Hollow Stem Auger
Logged by _____
Surface Elevation 153.7 ft. Hole Dia. 12 in.
Northing 2141492.27 Easting 5747633.077

Depth (ft.)
Sample

0
5
10
15
20
25
30
35

BROWN WELL GRADED FINE SAND (SP)
(7.5YR 4/2) Loose, dry, 95% fine sand, 5%
silt

BROWN WELL GRADED SAND (SP)
(7.5YR 5/3) Loose, dry, 95% fine to
medium sand, 5% silt

@ 13 ft.: Color change to pale brown (10YR
6/3)

@ 25 ft.: Similar to above

BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-27-A
OUCTP

PLATE

Fort Ord, California

DRAWN
CSN

JOB NUMBER
55596 001701

APPROVED

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DATE
11/04

REVISED DATE

A32

BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Completion Date 6/22/2000
Drilling Method Hollow Stem Auger
Logged by _____
Surface Elevation 153.7 ft. Hole Dia. 12 in.
Northing 2141492.27 Easting 5747633.077

Depth (ft.)
Sample

35
40
45
50
55
60
65
70

@ 35 ft.: Color change to light yellowish brown (10YR 6/4)

@ 40 ft.: Similar to above

@ 45 ft.: Similar to above

@ 55 ft.: Similar to above

@ 65 ft.: Similar to above



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CSN

JOB NUMBER
55596 001701

Well Construction Details and
Log of Boring MW-BW-27-A
OUCTP

Fort Ord, California

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MDT / cm

DATE
11/04

REVISED DATE

A32

PLATE

Completion Date 6/22/2000

Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 153.7 ft. Hole Dia. 12 in.

Northing 2141492.27 Easting 5747633.077

Depth (ft.)
Sample

BENTONITE-
PELLET SEAL:
71.5 to 73 ft.

#3 Lonestar
SANDPACK: 73 to
110 ft.

5 DIA. SLOTTED
(0.02) SCREEN:
79 to 109 ft.

70
75
80
85
90
95
100
105

@ 70 ft.: Similar to above

@ 79.5 ft.: Drill operator noticed a change
in drill rate

@ 83 ft.: Color change to brown (10YR 5/3)

@ 84 ft.: color change to light yellowish
brown (10YR 6/4) Note: Cuttings are not
saturated with water.

@ 95 ft.: Similar to above

Water level

@ 100 ft.: Cuttings saturated

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-27-A
OUCTP

Fort Ord, California

PLATE

A32

DRAWN
CSN

JOB NUMBER
55596 001701

APPROVED

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DATE
11/04

REVISED DATE

Completion Date 6/22/2000

Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 153.7 ft. Hole Dia. 12 in.

Northing 2141492.27 Easting 5747633.077

Depth (ft.)
Sample

BOTTOM WELL
CAP: 110.0 ft.

BOTTOM OF
BOREHOLE:
127.0 ft.

105

110

115

120

125

@ 105 ft.: Similar to above

LIGHT YELLOWISH BROWN FAT CLAY
(CH) (10YR 6/4) Medium stiff, wet, 5% silt

BROWN WELL GRADED SAND (SP)
(7.5YR 3/3) Loose, dry, 95% fine to
medium sand, 5% silt

@ 123 ft.: Note: Traces of clay on retrieval;
driller notices an decrease in drill rate

@ 125.5 ft.: Driller notices an increase in
drill rate

LIGHT YELLOWISH BROWN FAT CLAY
(CH) (10YR 6/4) Medium stiff, wet, 5% silt
Note: Driller notices a decrease in drill rate,
stops drilling. After 8 in. augers taken out of
ground, confirm clay on drill bit.
Bottom of borehole. Borehole backfilled
from 127 ft. to 118 ft. (8 in.) and from 118 ft.
to 110 ft. (12 in.)

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-27-A
OUCTP

Fort Ord, California

DRAWN
CSN

JOB NUMBER
55596 001701

APPROVED

MOT / cm

DATE
11/04

REVISED DATE

A32

PLATE

Top of PVC Casing
Elev. 143.16 ft.

GROUND SURFACE

Top of casing at
1.76 ft. above
ground level

5 DIAMETER
SCHEDULE 40
PVC BLANK
CASING: 1.76 to
83.0 ft.

BENTONITE-
CEMENT SEAL: 0
to 73.0 ft.

Completion Date 6/21/2000

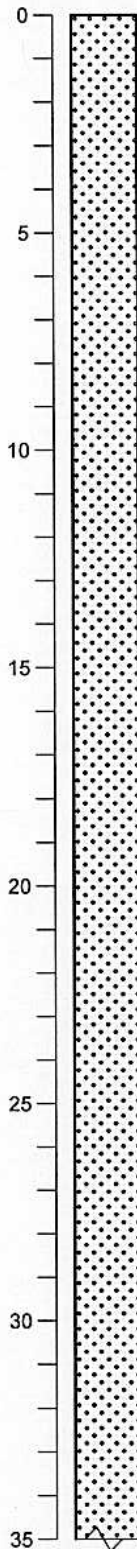
Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 141.4 ft. Hole Dia. 12 in.

Northing 2141504.804 Easting 5748216.839

Depth (ft.)
Sample



STRONG BROWN WELL GRADED FINE
SAND (SP) (7.5YR 4/6) Loose, dry, 95%
fine sand, 5% silt

@ 7 ft.: Color change to brownish yellow
(10YR 6/6)

@ 15 ft.: Similar to above

@ 25 ft.: Similar to above

Well Construction Details and
Log of Boring MW-BW-28-A
OUCTP

PLATE



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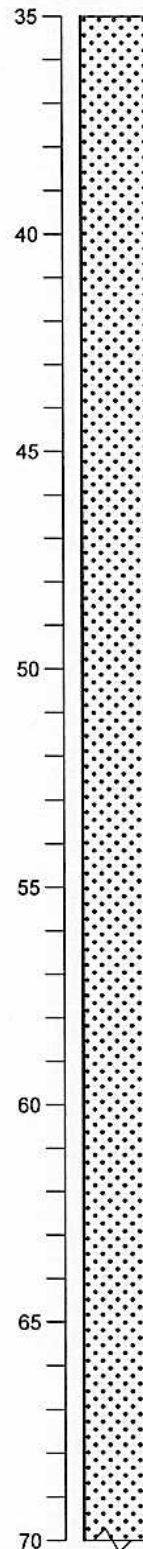
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BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Completion Date 6/21/2000
Drilling Method Hollow Stem Auger
Logged by _____
Surface Elevation 141.4 ft. Hole Dia. 12 in.
Northing 2141504.804 Easting 5748216.839

Depth (ft.)
Sample



@ 35 ft.: Similar to above

@ 45 ft.: Similar to above

@ 55 ft.: Similar to above

@ 65 ft.: Similar to above

Well Construction Details and
Log of Boring MW-BW-28-A
OUCTP

PLATE



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Fort Ord, California

DRAWN
CSN

JOB NUMBER
55596 001701

APPROVED

MDT / CM

DATE
11/04

REVISED DATE

A33

Completion Date 6/21/2000
 Drilling Method Hollow Stem Auger
 Logged by _____
 Surface Elevation 141.4 ft. Hole Dia. 12 in.
 Northing 2141504.804 Easting 5748216.839

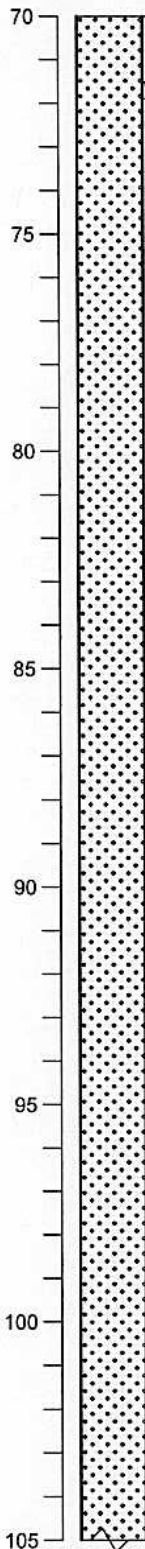
BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

BENTONITE-
PELLET SEAL:
73.0 to 74.0 ft.

#3 Lonestar
SANDPACK: 74 to
114.0 ft.

5 DIA. SLOTTED
(0.02) SCREEN:
83.0 to 113.0 ft.
NEW WELL
BOTTOM Bottom
15 ft. of well
grouted.

Depth (ft.)
Sample



Water level @ 72 ft.

@ 75 ft.: Similar to above

@ 85 ft.: Similar to above

@ 95 ft.: Similar to above

@ 99 ft.: Bottom 15 ft. of well grouted

Well Construction Details and
Log of Boring MW-BW-28-A
OUCTP

PLATE



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Fort Ord, California

DRAWN
CSN

JOB NUMBER
55596 001701

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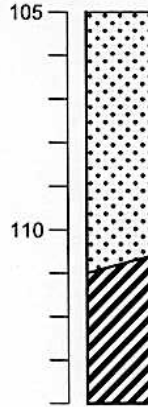
DATE
11/04

A33
REVISED DATE

Completion Date 6/21/2000
 Drilling Method Hollow Stem Auger
 Logged by _____
 Surface Elevation 141.4 ft. Hole Dia. 12 in.
 Northing 2141504.804 Easting 5748216.839

Depth (ft.)
 Sample

BOTTOM WELL
 CAP: 114.0 ft.
 BOTTOM OF
 BOREHOLE:
 114.0 ft.



LIGHT BROWNISH FAT CLAY (CH) (10YR
 6/2) Stiff, wet, 5% silt

Bottom of boring at 114 ft.

Note: Bottom 15 feet of well grouted on
 9/28/00 to seal perforation of clay from 96 to
 105 feet BGS as noted on the geophysical
 log (not observed in cuttings).

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MW-BW-28-A
 OUCTP

PLATE

A33

Fort Ord, California

DRAWN
 CSN

JOB NUMBER
 55596 001701

APPROVED

MBT / cm

DATE
 11/04

REVISED DATE

Top of PVC Casing
Elev. 148.80 ft.

GROUND SURFACE
Top of casing at
2.5 ft. above
ground level

5 DIAMETER
SCHEDULE 40
PVC BLANK
CASING: +2.5 ft.
to 200.0 ft.

BENTONITE-
CEMENT SEAL: 0
to 187.0 ft.

Completion Date 6/29/2000

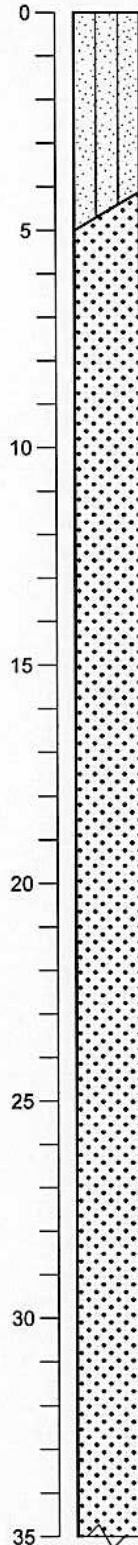
Drilling Method ARCH - Mud Fluid

Logged by _____

Surface Elevation 146.3 ft. Hole Dia. 10 5/8 in.

Northing 2140951.749 Easting 5747985.78

Depth (ft.)
Sample



VERY DARK GRAYISH BROWN SILTY
SAND (SM) (10YR 3/2) Loose, dry, 75%
fine to coarse sand, 25% silt

BROWN WELL-GRADED SAND (SW)
(10YR 4/3) Loose, dry, 90% fine to coarse
sand, 10% silt

@ 7 ft.: Color change to yellowish brown
well-graded sand (SW) (10YR 5/6)

@ 10 ft.: Similar to above

@ 15 ft.: Similar to above

@ 20 ft.: Similar to above

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-29-180
OUCTP

Fort Ord, California

DRAWN
CSN

JOB NUMBER
55596 001701

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DATE
11/04

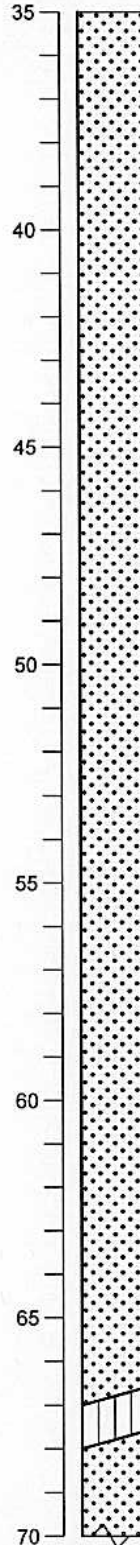
REVISED DATE

A34

PLATE

Completion Date 6/29/2000
 Drilling Method ARCH - Mud Fluid
 Logged by _____
 Surface Elevation 146.3 ft. Hole Dia. 10 5/8 in.
 Northing 2140951.749 Easting 5747985.78

Depth (ft.)
 Sample



@ 35 ft.: Similar to above

@ 40 ft.: Similar to above

@ 48 ft.: Similar to above

@ 55 ft.: Similar to above

@ 60 ft.: Similar to above

DARK GREENISH GRAY SILT (ML) (5G 4/1) Stiff, moist, 90% silt, 10% fine sand

YELLOWISH BROWN WELL-GRADED SAND (SW) (10YR 5/6) Loose, dry, 95% fine to coarse sand, 5% silt

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-29-180
 OUCTP

Fort Ord, California

PLATE

A34

DRAWN
 CSN

JOB NUMBER
 55596 001701

APPROVED

MDT / am

DATE
 11/04

REVISED DATE

Completion Date 6/29/2000

Drilling Method ARCH - Mud Fluid

Logged by _____

Surface Elevation 146.3 ft.

Hole Dia. 10 5/8 in.

Northing 2140951.749

Easting 5747985.78

Depth (ft.)
Sample

70

75

80

85

90

95

100

105

@ 75 ft.: Similar to above

BROWNISH YELLOW POORLY-GRADED
SAND (SP) (10YR 6/8) Loose, 100% fine to
medium sand

@ 85 ft.: Color change to light olive brown
poorly-graded sand (2.5Y 5/6)

@ 90 ft.: Similar to above

@ 95 ft.: Similar to above

OLIVE SANDY FAT CLAY (CH) (5Y 5/4)
Soft, moist, 50% clay, 40% fine sand

OLIVE SANDY FAT CLAY (CH) (5Y 5/4)
Medium stiff, moist, 70% clay, 30% fine to
medium sand

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-29-180
OUCTP

Fort Ord, California

PLATE

A34

DRAWN
CSN

JOB NUMBER
55596 001701

APPROVED

NOT/cmr

DATE
11/04

REVISED DATE

Completion Date 6/29/2000

Drilling Method ARCH - Mud Fluid

Logged by _____

Surface Elevation 146.3 ft. Hole Dia. 10 5/8 in.

Northing 2140951.749 Easting 5747985.78

Depth (ft.)
Sample

105

110

115

120

125

130

135

140

OLIVE GRAY FAT CLAY (CH) (5Y 5/2),
soft, moist, 75% clay, 25% fine to medium
sand

@ 115 ft.: Similar to above

OLIVE SANDY FAT CLAY (CH) (5Y 5/2)
Soft, moist, 65% clay, 35% fine sand
OLIVE FAT CLAY (CH) (5Y 5/2) Soft,
moist, 80% clay, 20% fine sand

@ 130 ft.: Similar to above

OLIVE GRAY POORLY GRADED SAND
(SP) (5Y 5/2) Loose, 90% fine to medium
sand, 10% silt

BORING WELL OUCTP OUCTPV6.GPJ FTO OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-29-180
OUCTP

Fort Ord, California

DRAWN
CSN

JOB NUMBER
55596 001701

APPROVED

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DATE
11/04

REVISED DATE

A34

PLATE

Completion Date 6/29/2000

Drilling Method ARCH - Mud Fluid

Logged by _____

Surface Elevation 146.3 ft.

Hole Dia. 10 5/8 in.

Northing 2140951.749

Easting 5747985.78

Depth (ft.)
Sample

140

@ 140 ft.: Similar to above

145

OLIVE GRAY WELL GRADED SAND (SW)
(5Y 5/2) Loose, 95% fine to coarse, sand,
5% silt

150

@ 150 ft.: Similar to above

155

OLIVE GRAY CLAYEY SAND (SC) (5Y 4/2)
Loose, 60% fine to medium sand, 40% clay

DARK BLUISH GRAY FAT CLAY (CH) (5B
4/1) Medium stiff, moist, 90% clay, 10% fine
sand

160

165

OLIVE GRAY CLAYEY SAND (SC) (5Y 4/2)
Loose, 85% fine to coarse sand, 15% clay

170

OLIVE GRAY WELL-GRADED SAND (SW)
(5Y 4/2) Loose, 95% fine to coarse sand,
5% silt

175

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-29-180
OUCTP

PLATE

Fort Ord, California

A34

DRAWN
CSN

JOB NUMBER
55596 001701

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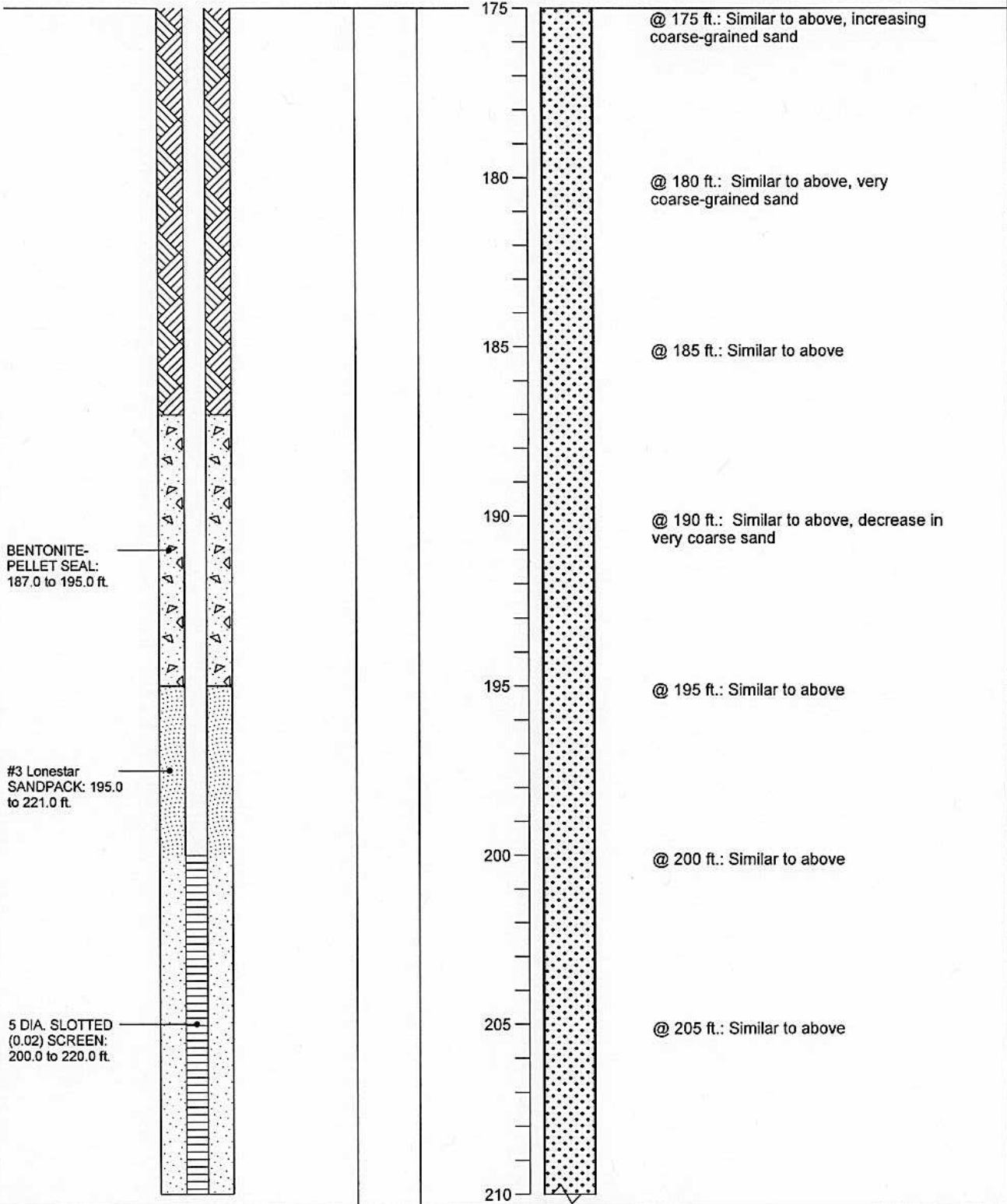
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DATE
11/04

REVISED DATE

Completion Date 6/29/2000
 Drilling Method ARCH - Mud Fluid
 Logged by _____
 Surface Elevation 146.3 ft. Hole Dia. 10 5/8 in.
 Northing 2140951.749 Easting 5747985.78

Depth (ft.)
 Sample



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
 Log of Boring MW-BW-29-180
 OUCTP

PLATE



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Fort Ord, California

A34

DRAWN
 CSN

JOB NUMBER
 55596 001701

APPROVED

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DATE
 11/04

REVISED DATE

Completion Date 6/29/2000

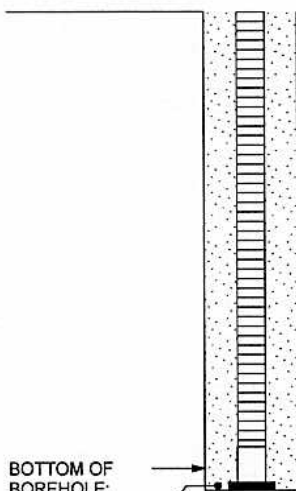
Drilling Method ARCH - Mud Fluid

Logged by _____

Surface Elevation 146.3 ft. Hole Dia. 10 5/8 in.

Northing 2140951.749 Easting 5747985.78

Depth (ft.)
Sample



BOTTOM OF
BOREHOLE:
221.0 ft.
BOTTOM WELL
CAP: 221.0 ft.

210

215

220

@ 210 ft.: Similar to above, sand grains to
1 cm with sharp edges, possible 5% fine
gravel
Fine gravels have sharp edges, probably
broken up by Tricone Rotary bit

@ 215 ft.: Similar to above

OLIVE GRAY SANDY FAT CLAY (CH) (5Y
5/2) Medium stiff, moist, 60% clay, 40%
fine to coarse sand

BORING WELL OUCTP OUCTPV6 GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-29-180
OUCTP

Fort Ord, California

PLATE

A34

DRAWN
CSN

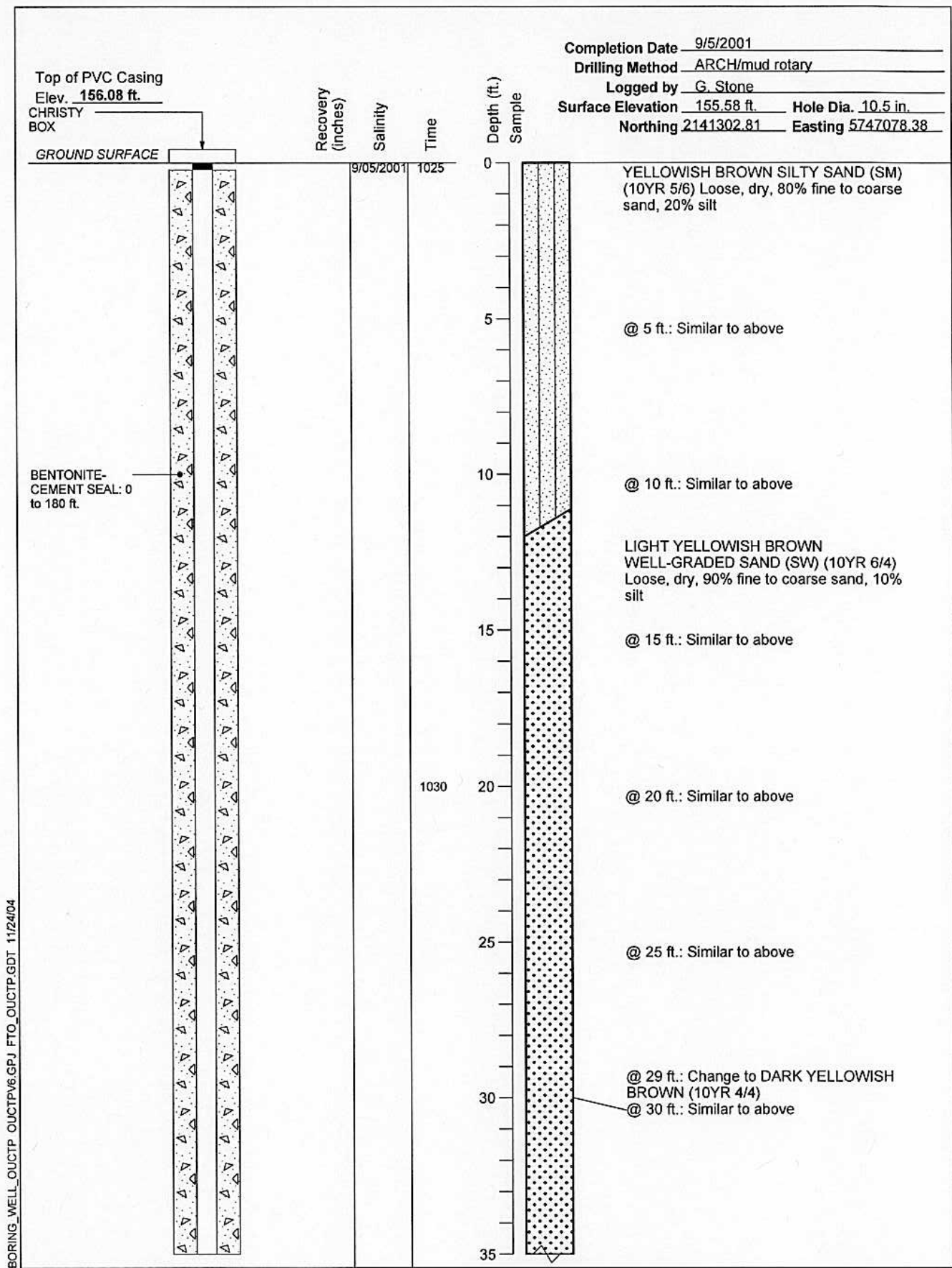
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11/04

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Well Construction Details and
 Log of Boring MW-BW-30-180
 OUCTP

PLATE

A35

Fort Ord, California

DRAWN
 TAC

JOB NUMBER
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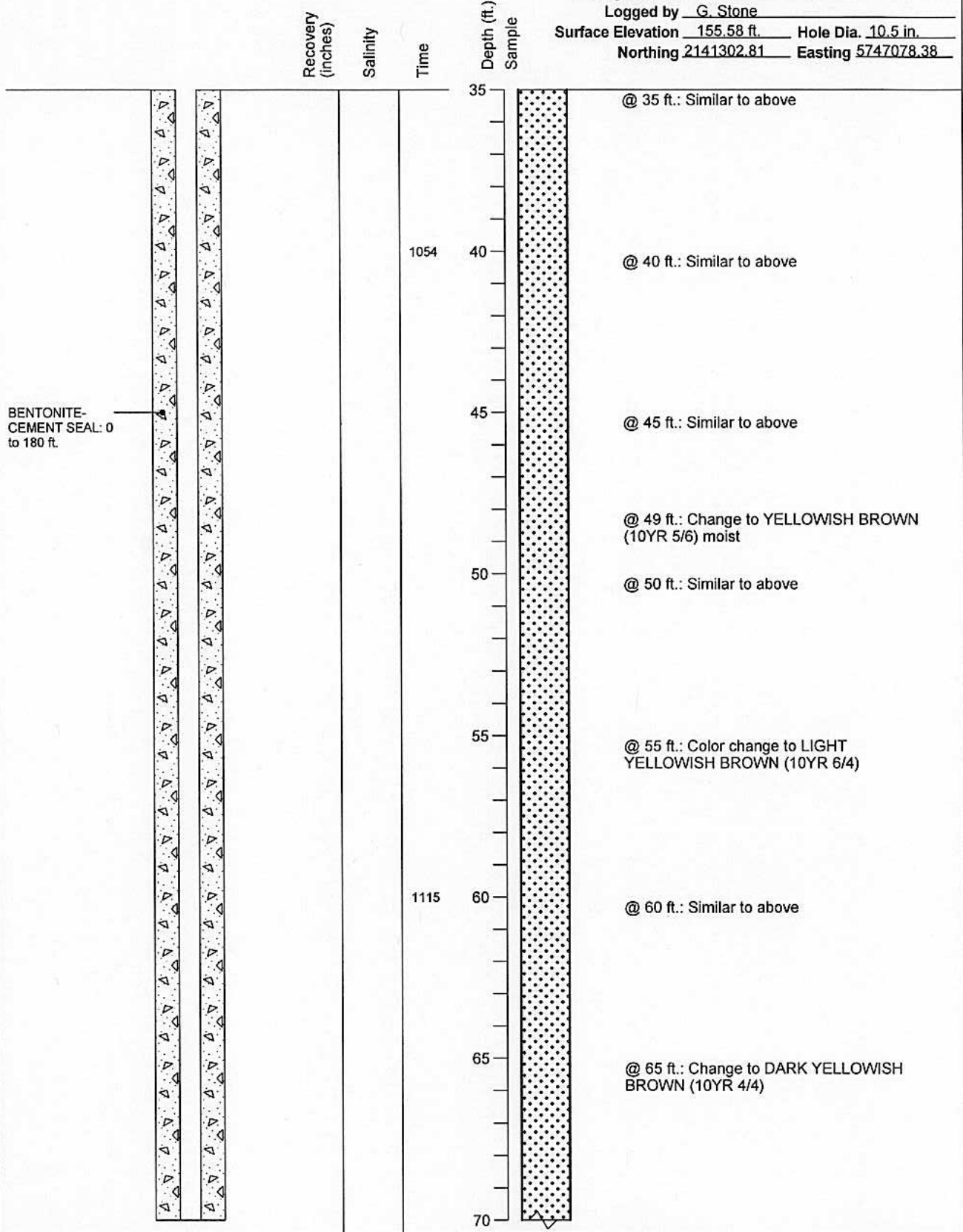
MSJ/cw

DATE
 11/04

REVISED DATE

Completion Date 9/5/2001
 Drilling Method ARCH/mud rotary
 Logged by G. Stone
 Surface Elevation 155.58 ft. Hole Dia. 10.5 in.
 Northing 2141302.81 Easting 5747078.38

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MW-BW-30-180
 OUCTP

Fort Ord, California

PLATE

A35

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JOB NUMBER
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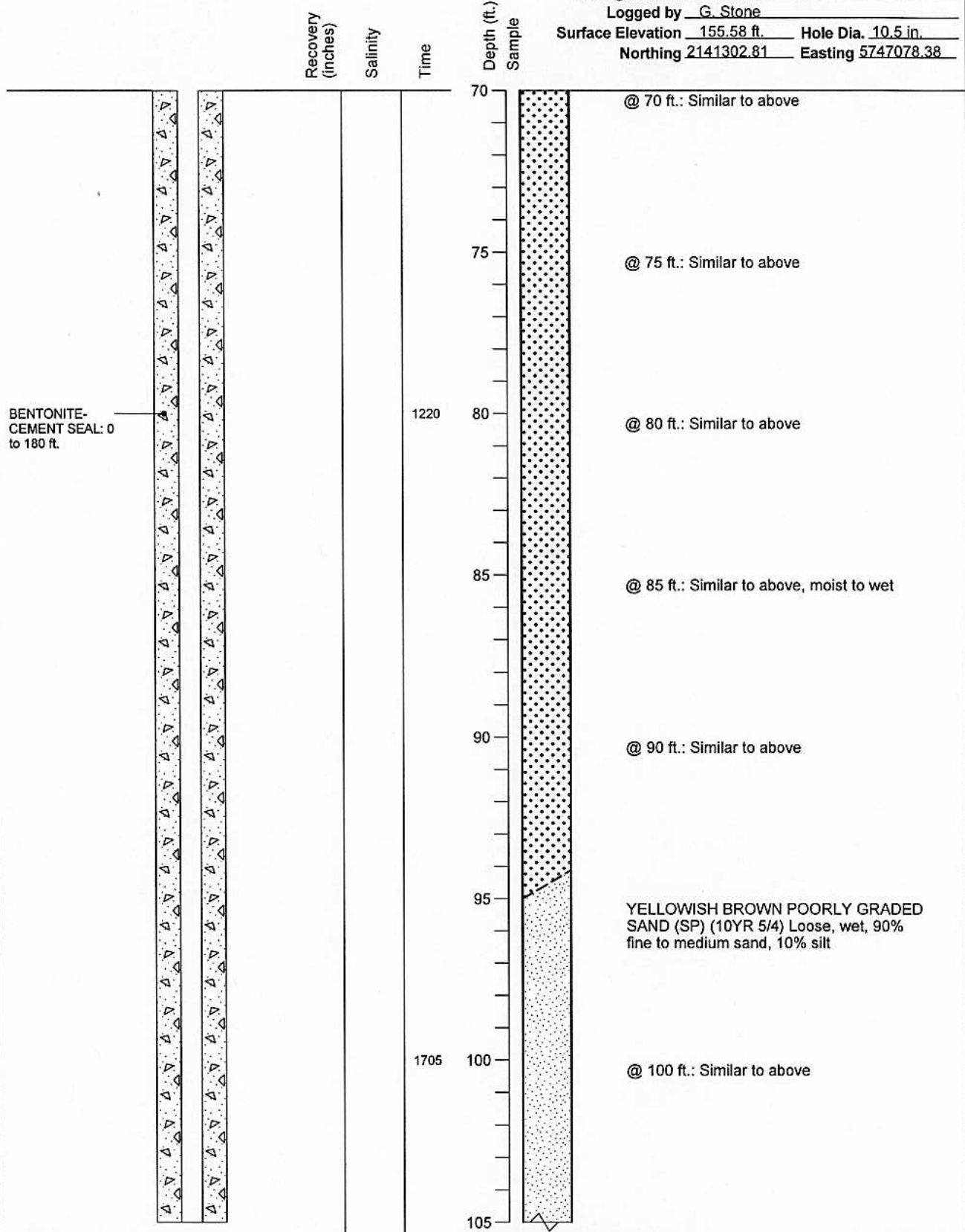
MDT / cm

DATE
 11/04

REVISED DATE

Completion Date 9/5/2001
 Drilling Method ARCH/mud rotary
 Logged by G. Stone
 Surface Elevation 155.58 ft. Hole Dia. 10.5 in.
 Northing 2141302.81 Easting 5747078.38

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MW-BW-30-180
 OUCTP

Fort Ord, California

PLATE

A35

DRAWN
 TAC

JOB NUMBER
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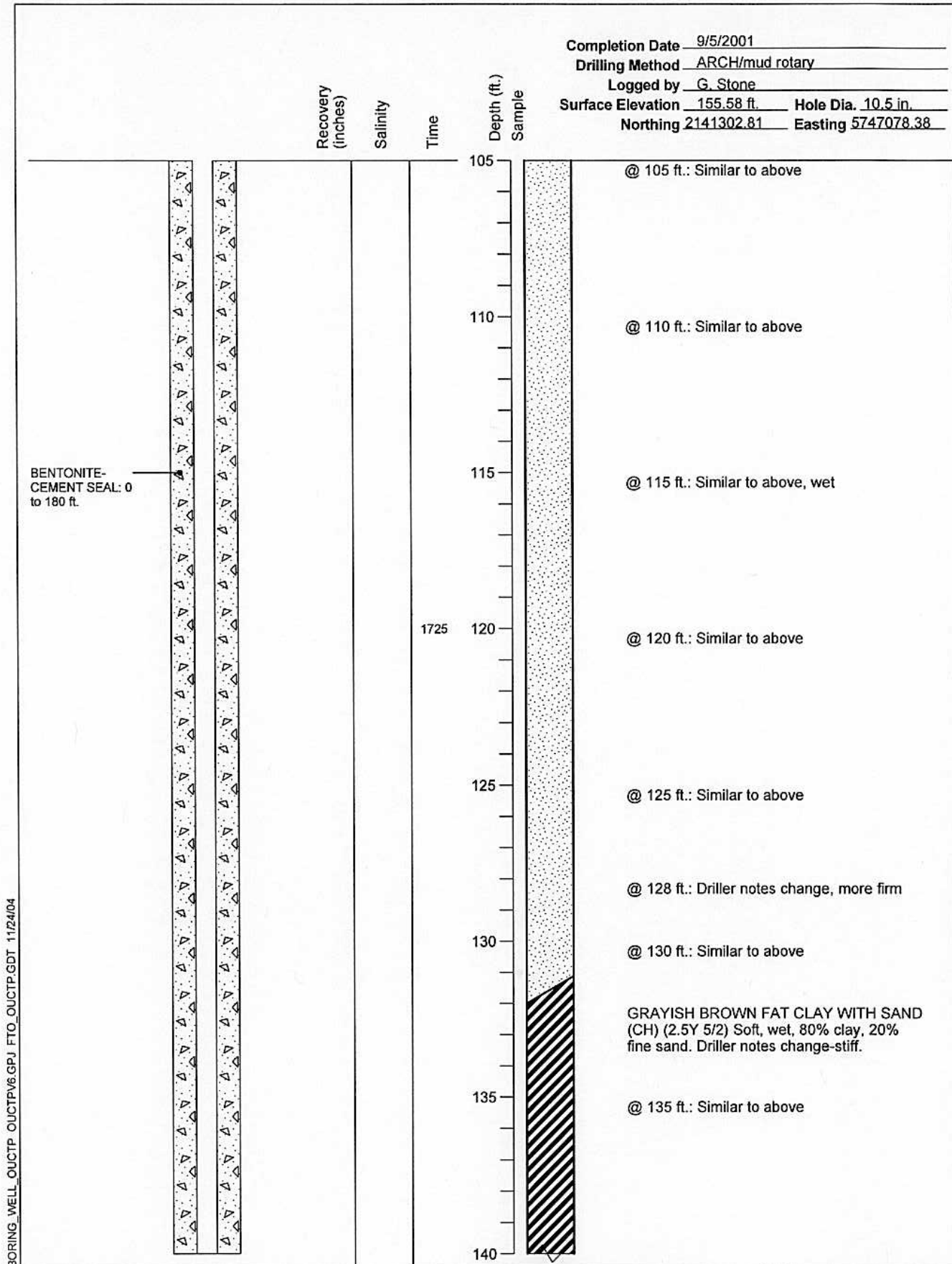
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MDT/cw

DATE
 11/04

REVISED DATE

Completion Date 9/5/2001
 Drilling Method ARCH/mud rotary
 Logged by G. Stone
 Surface Elevation 155.58 ft. Hole Dia. 10.5 in.
 Northing 2141302.81 Easting 5747078.38



MACTEC

Well Construction Details and
 Log of Boring MW-BW-30-180
 OUCTP

Fort Ord, California

PLATE

A35

DRAWN
TAC

JOB NUMBER
55596 001701

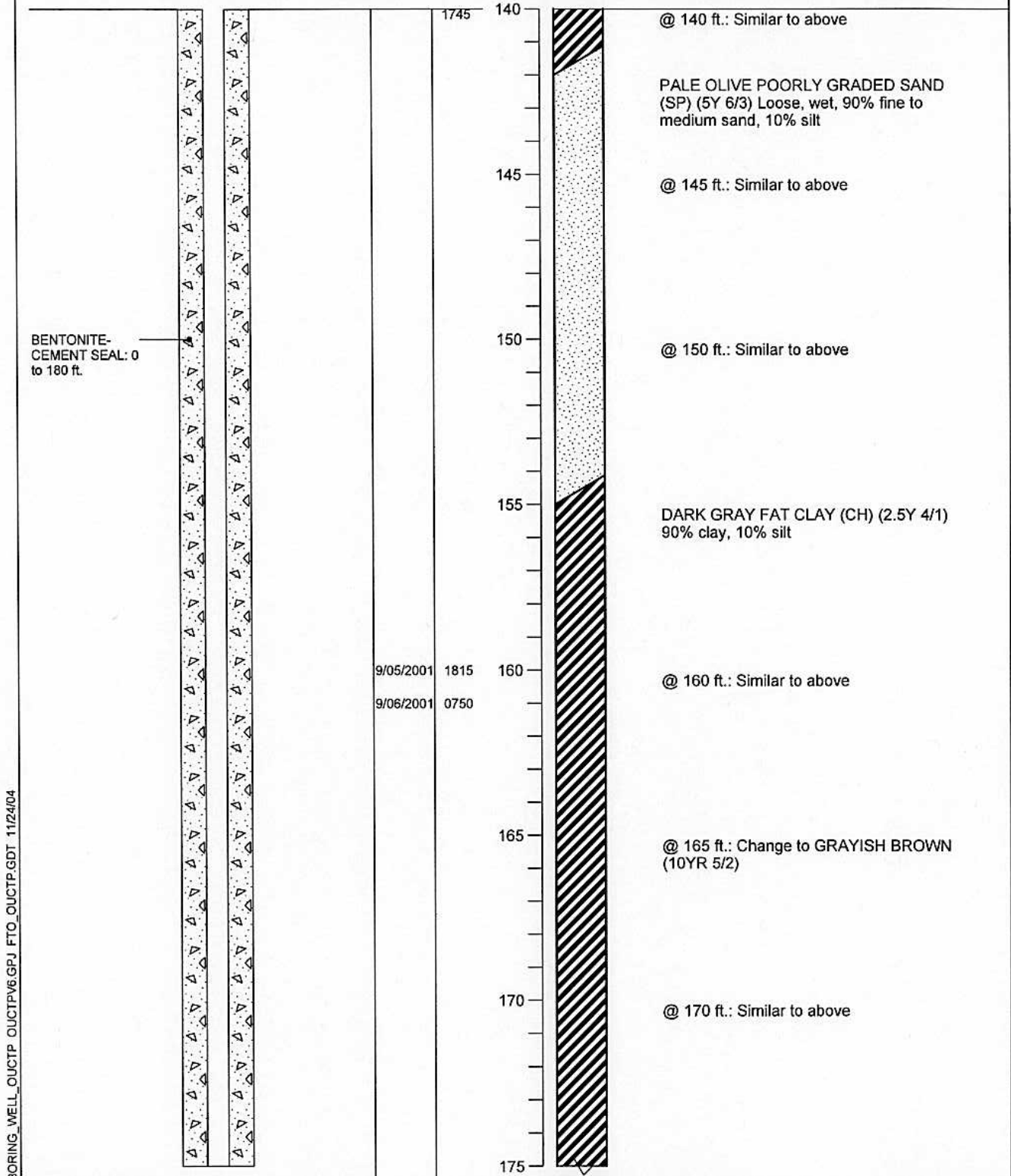
APPROVED

MTJ

DATE
11/04

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BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
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Fort Ord, California

PLATE

A35

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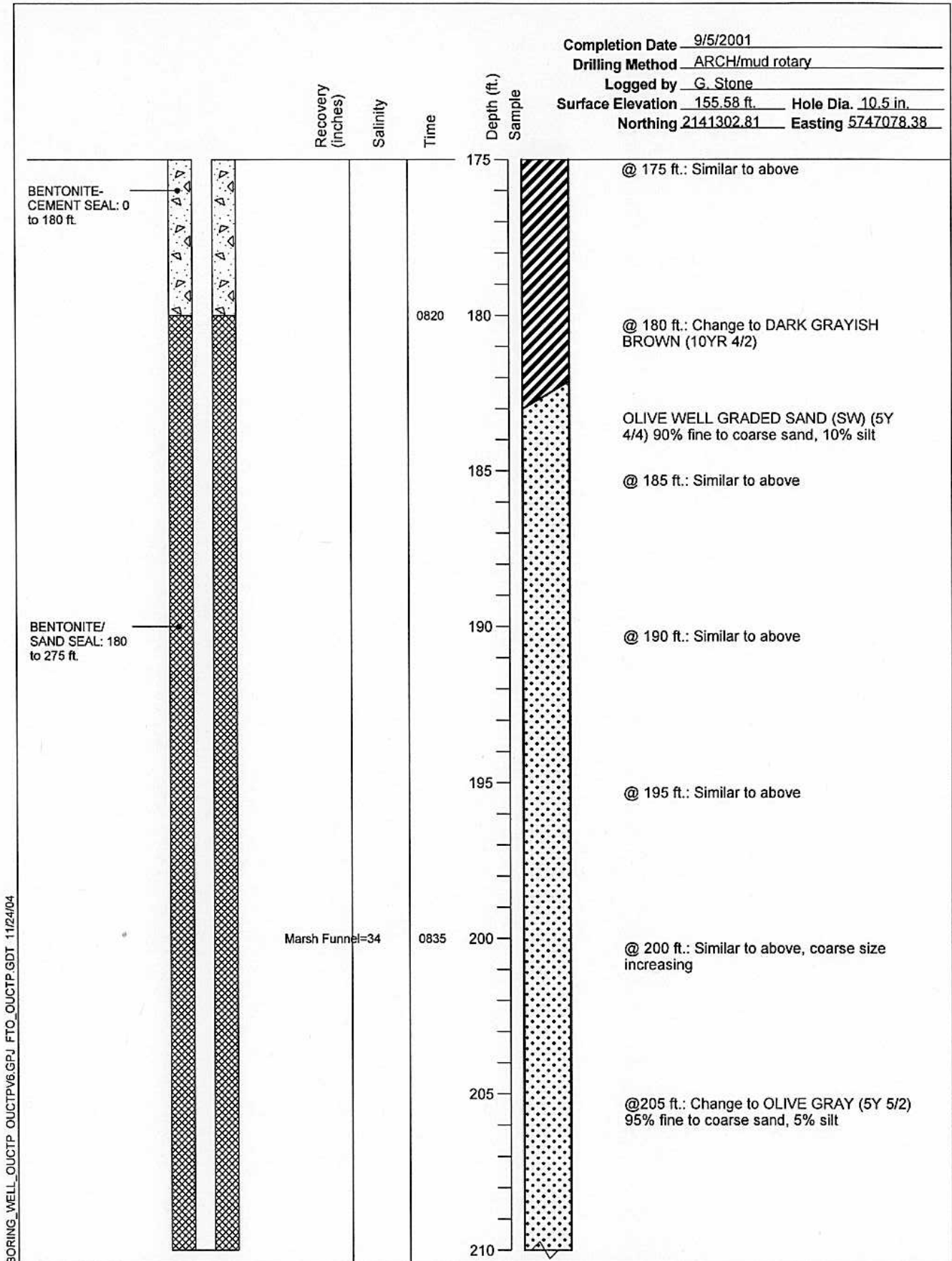
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Fort Ord, California

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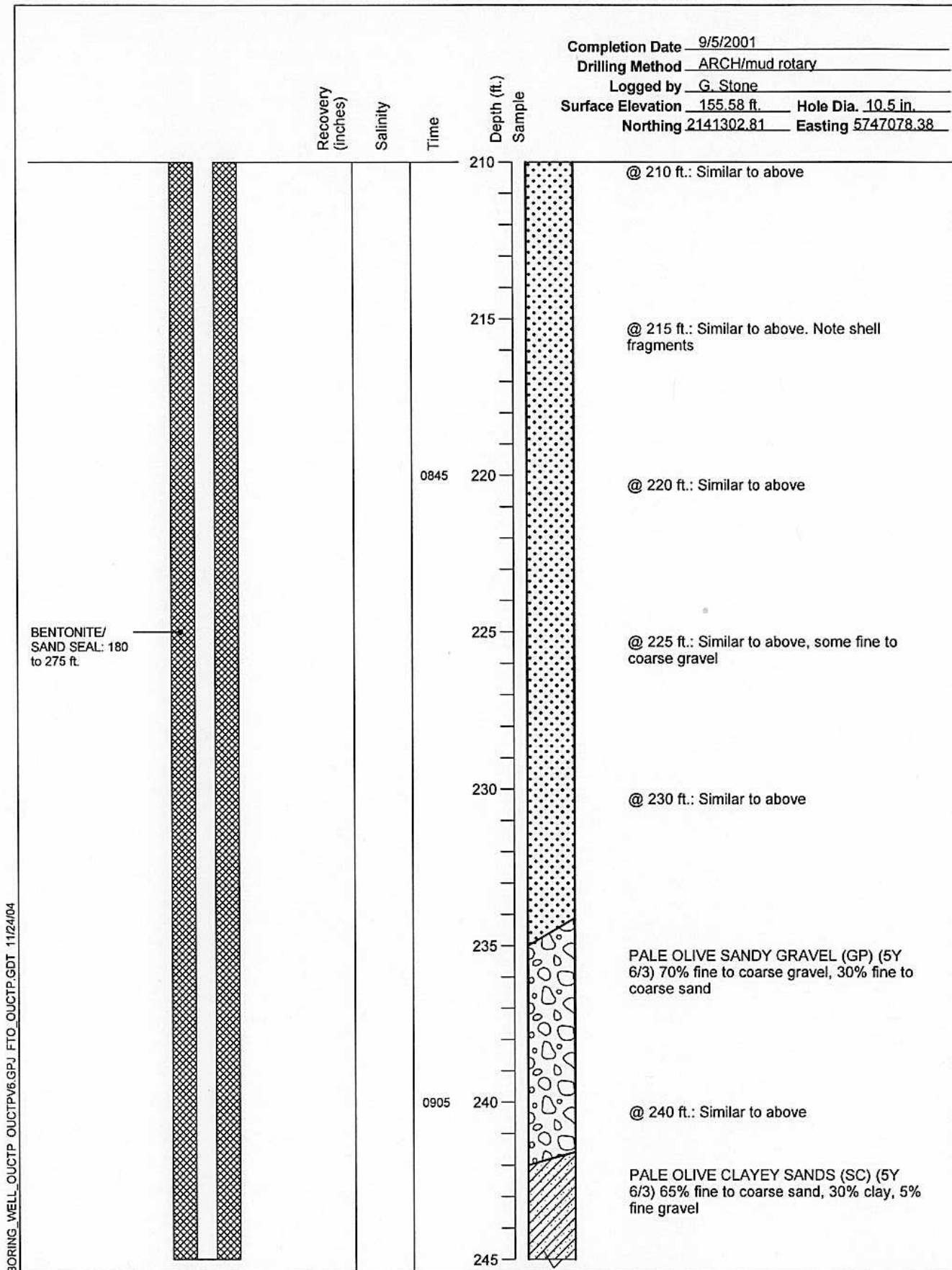
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PLATE



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Fort Ord, California

A35

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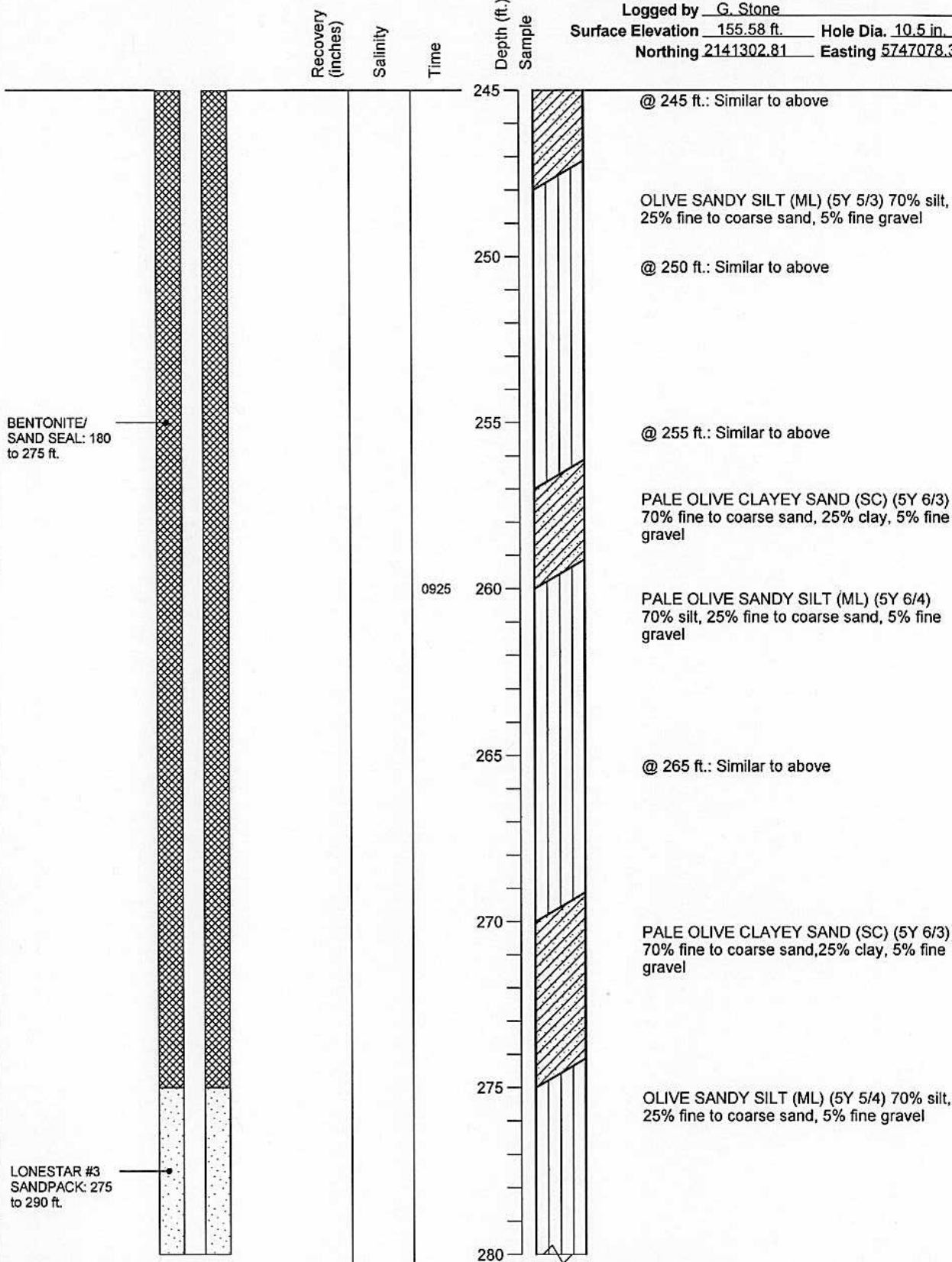
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DATE
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BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

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Well Construction Details and
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OUCTP

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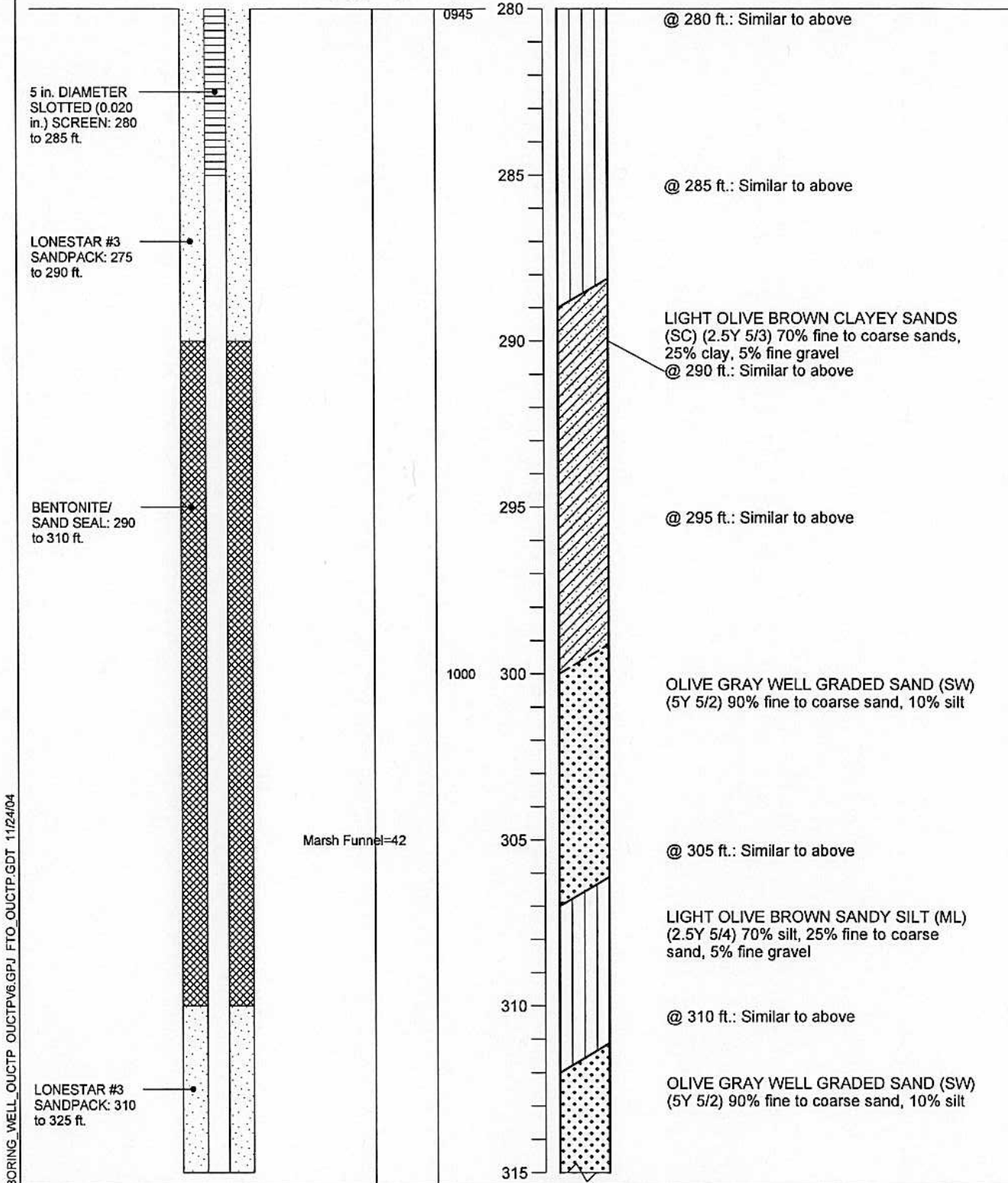
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MDT / cm

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BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-30-180
 OUCTP

PLATE



MACTEC

Fort Ord, California

DRAWN
TAC

JOB NUMBER
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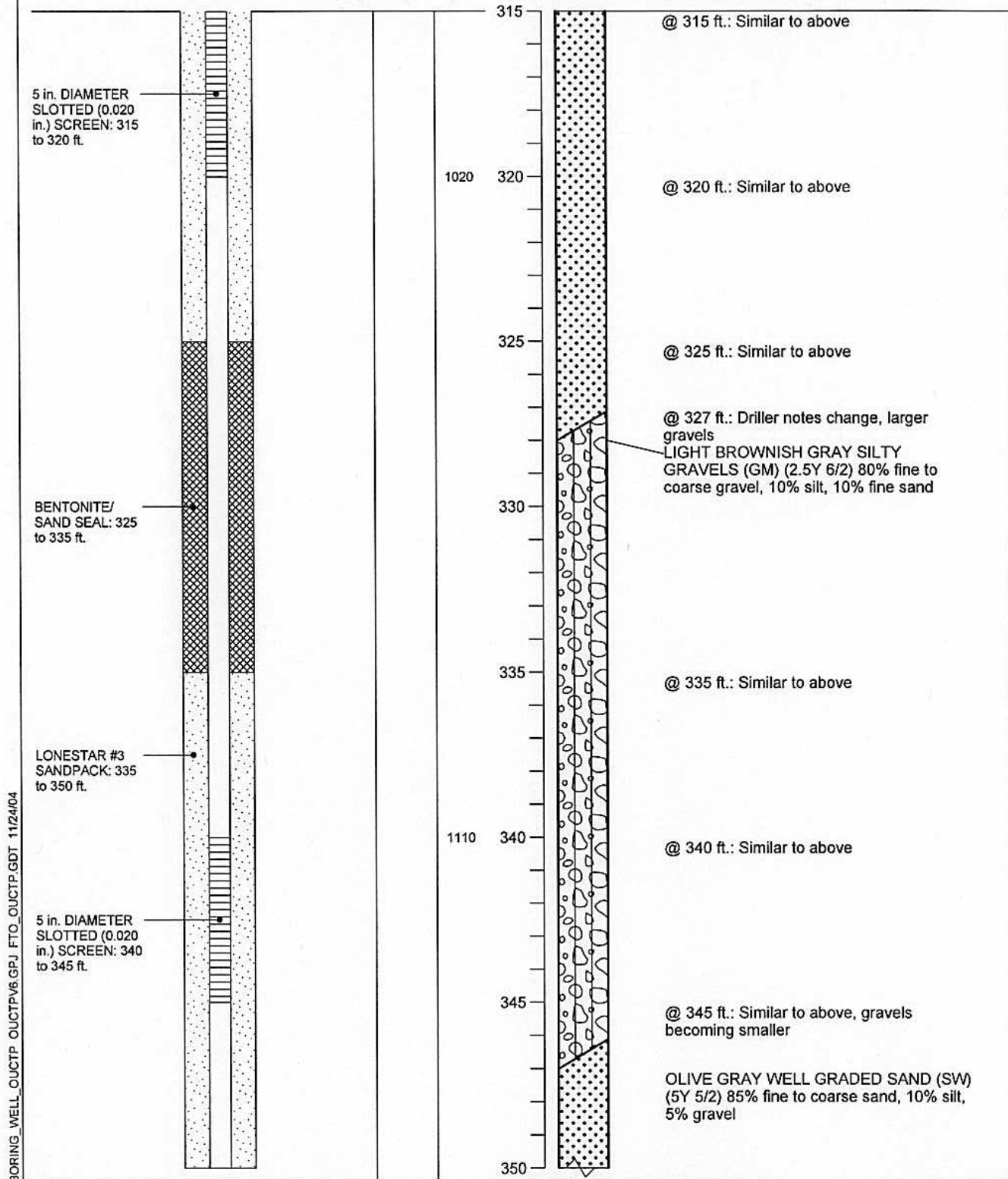
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REVISED DATE

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Well Construction Details and
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OUCTP

PLATE



MACTEC

Fort Ord, California

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TAC

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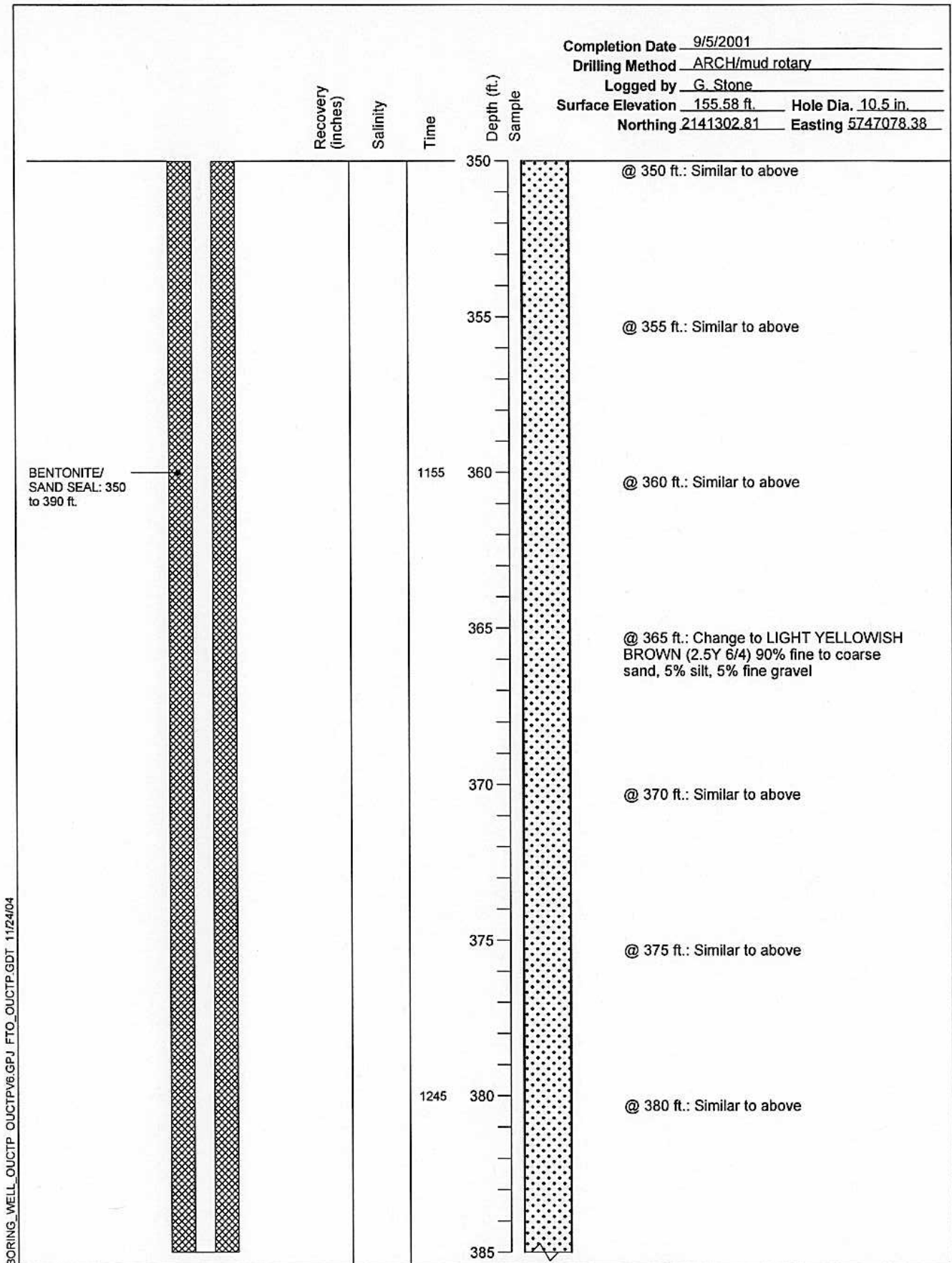
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BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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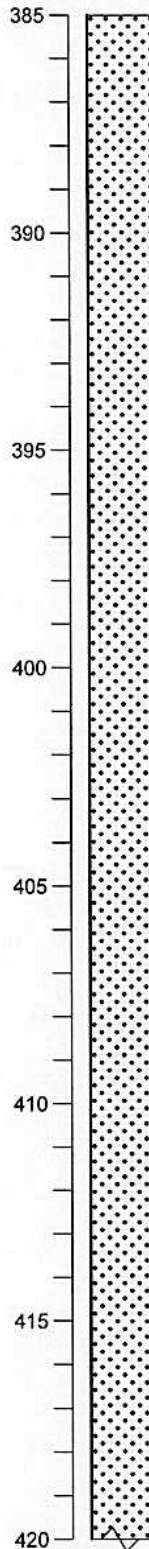
Completion Date 9/5/2001Drilling Method ARCH/mud rotaryLogged by G. StoneSurface Elevation 155.58 ft Hole Dia. 10.5 in.Northing 2141302.81 Easting 5747078.38Recovery
(inches)

Salinity

Time

Depth (ft.)
SampleBENTONITE/
SAND SEAL: 350
to 390 ft.LONESTAR #3
SANDPACK: 390
to 405 ft.5 in. DIAMETER
SLOTTED (0.020
in.) SCREEN: 395
to 400 ft.BENTONITE/
SAND SEAL: 405
to 460 ft.

1300



@ 385 ft.: Similar to above

@ 390 ft.: Similar to above

@ 395 ft.: Similar to above

@ 400 ft.: Change to GRAYISH BROWN
(2.5Y 5/2)

@ 405 ft.: Similar to above

@ 410 ft.: Similar to above

@ 415 ft.: Similar to above

Well Construction Details and
Log of Boring MW-BW-30-180
OUCTP

Fort Ord, California

PLATE

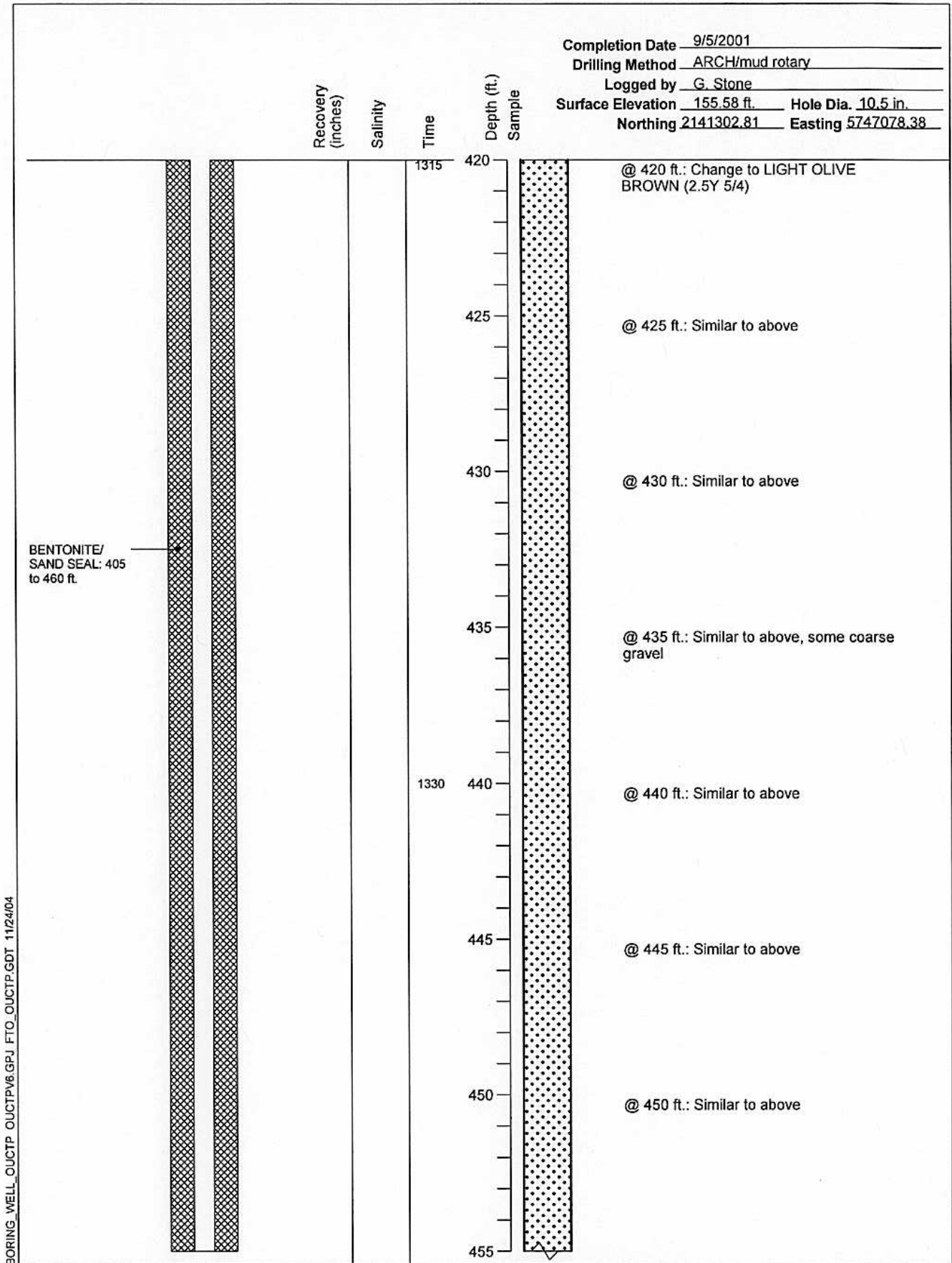
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TACJOB NUMBER
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OUCTP

Fort Ord, California

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11/04

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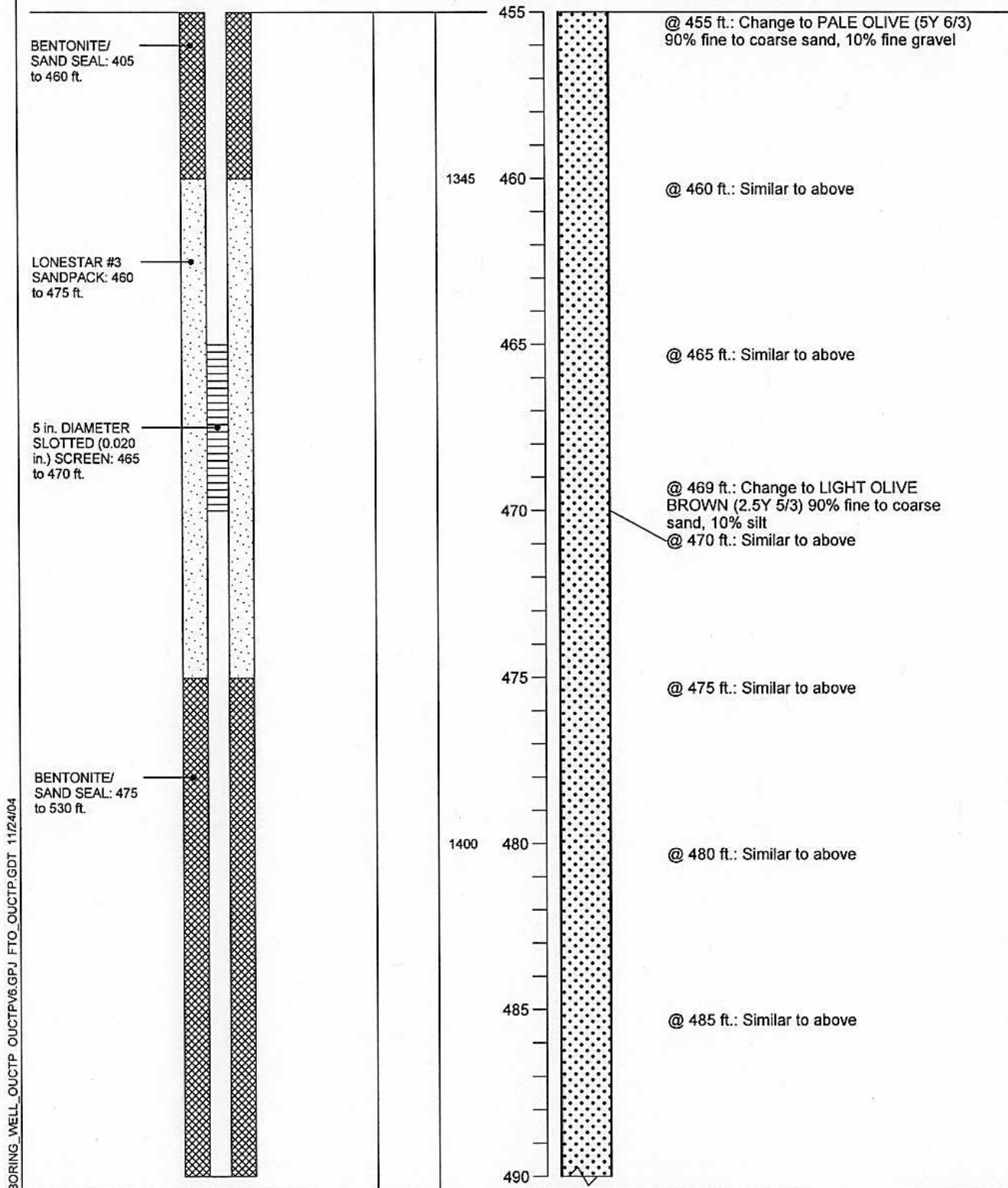
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Drilling Method ARCH/mud rotary

Logged by G. Stone

Surface Elevation 155.58 ft. Hole Dia. 10.5 in.

Northing 2141302.81 Easting 5747078.38



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Well Construction Details and Log of Boring MW-BW-30-180
OUCTP

Fort Ord, California

DRAWN
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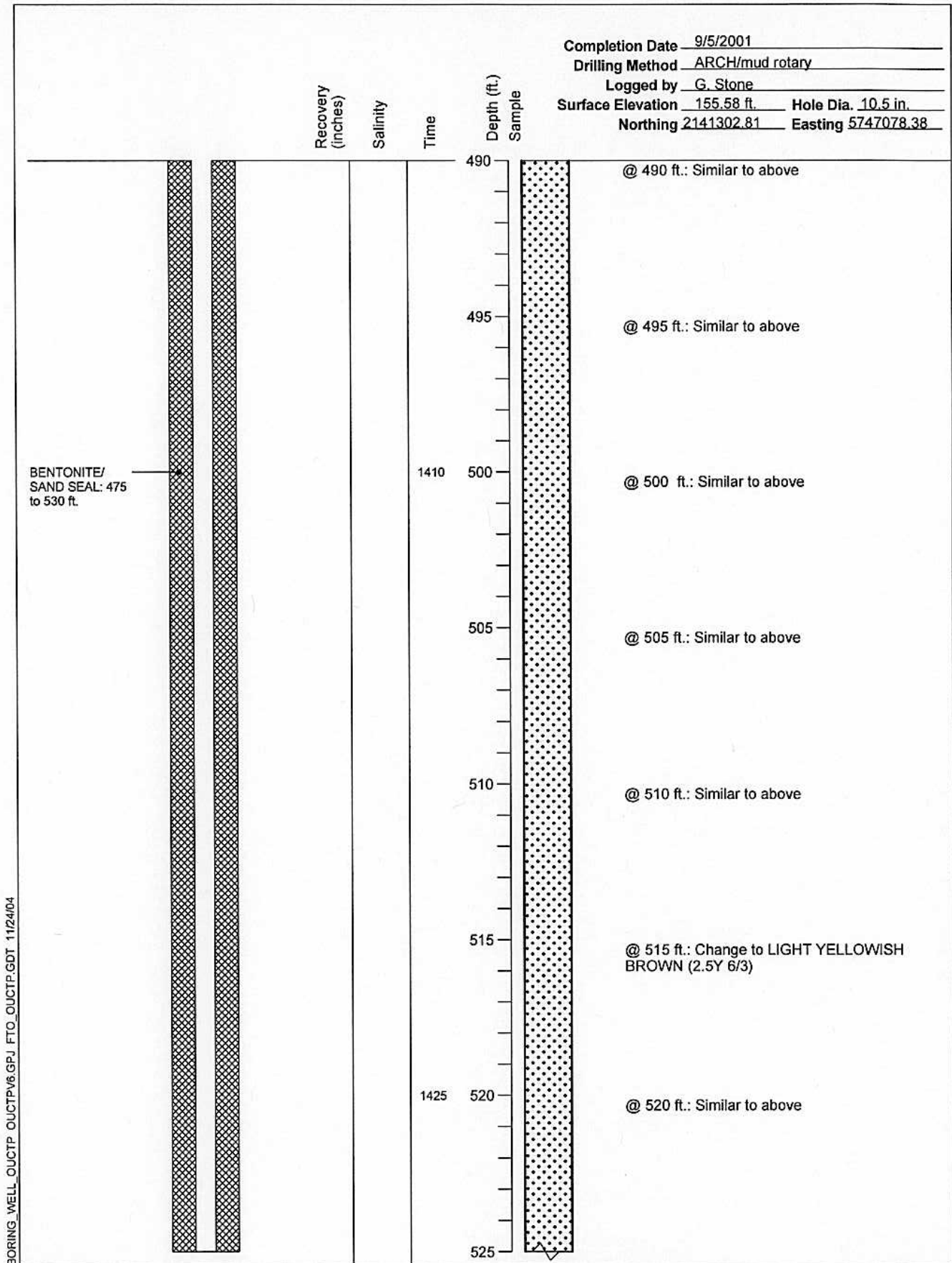
DATE
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A35

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BORING WELL OUCTP OUCTPV&GPJ FTO OUCTP.GDT 11/24/04



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Well Construction Details and
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OUCTP

Fort Ord, California

PLATE

A35

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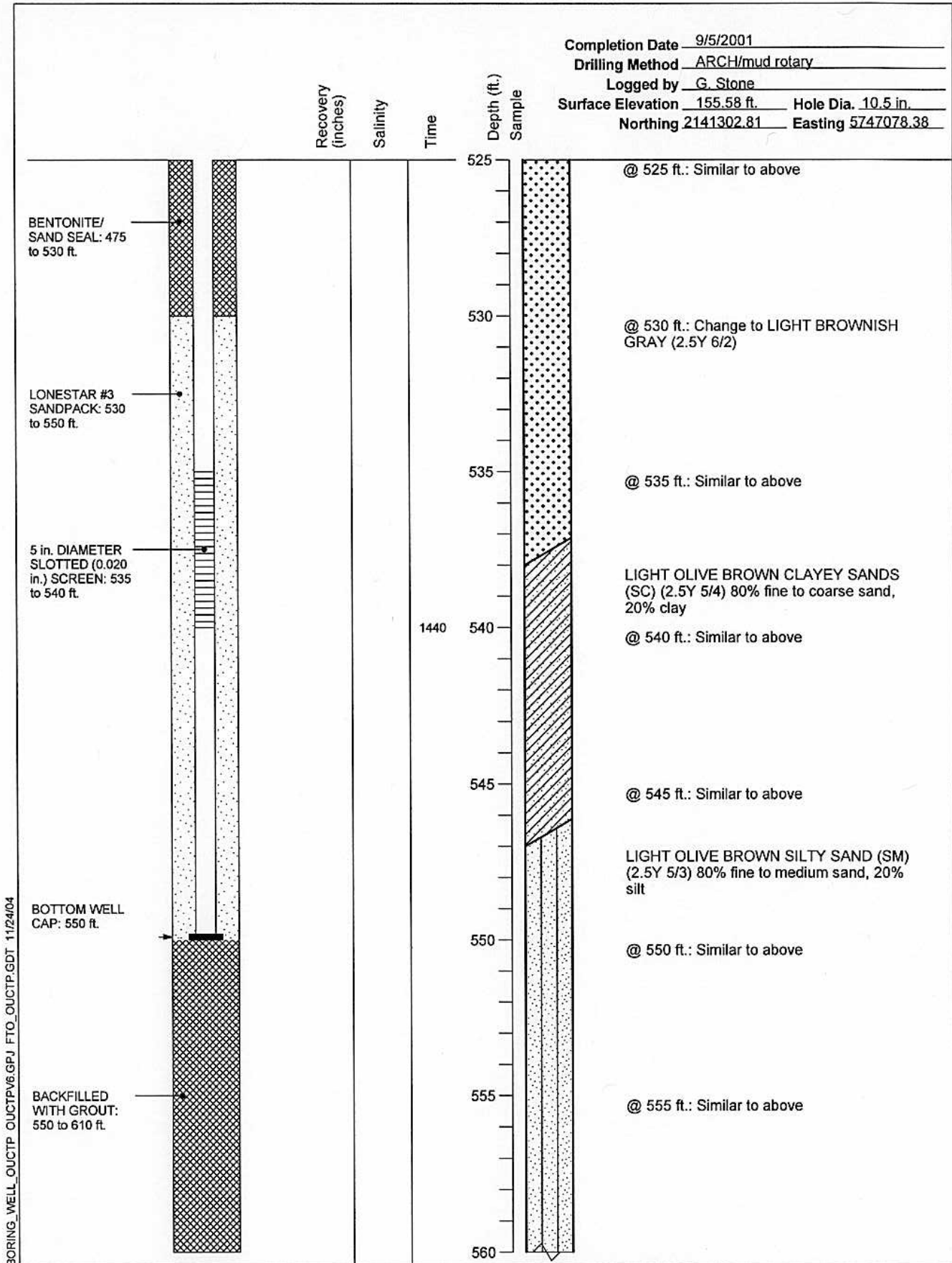
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BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
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 OUCTP

Fort Ord, California

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JOB NUMBER
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PLATE

Completion Date 9/5/2001Drilling Method ARCH/mud rotaryLogged by G. StoneSurface Elevation 155.58 ft. Hole Dia. 10.5 in.Northing 2141302.81 Easting 5747078.38Recovery
(inches)

Salinity

Time

Depth (ft.)
SampleBACKFILLED
WITH GROUT:
550 to 610 ft.

1500

560

@ 560 ft.: Similar to above

LIGHT OLIVE BROWN CLAYEY SAND
(SC) (2.5Y 5/6) 90% fine to medium sand,
10% clay

565

@ 565 ft.: Similar to above

570

@ 570 ft.: Similar to above

575

@ 575 ft.: Change to OLIVE BROWN (2.5Y
4/4)

1520

580

@ 580 ft.: Similar to above

585

@ 585 ft.: Similar to above

590

@ 590 ft.: Similar to above

595

Well Construction Details and
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OUCTP

Fort Ord, California

PLATE

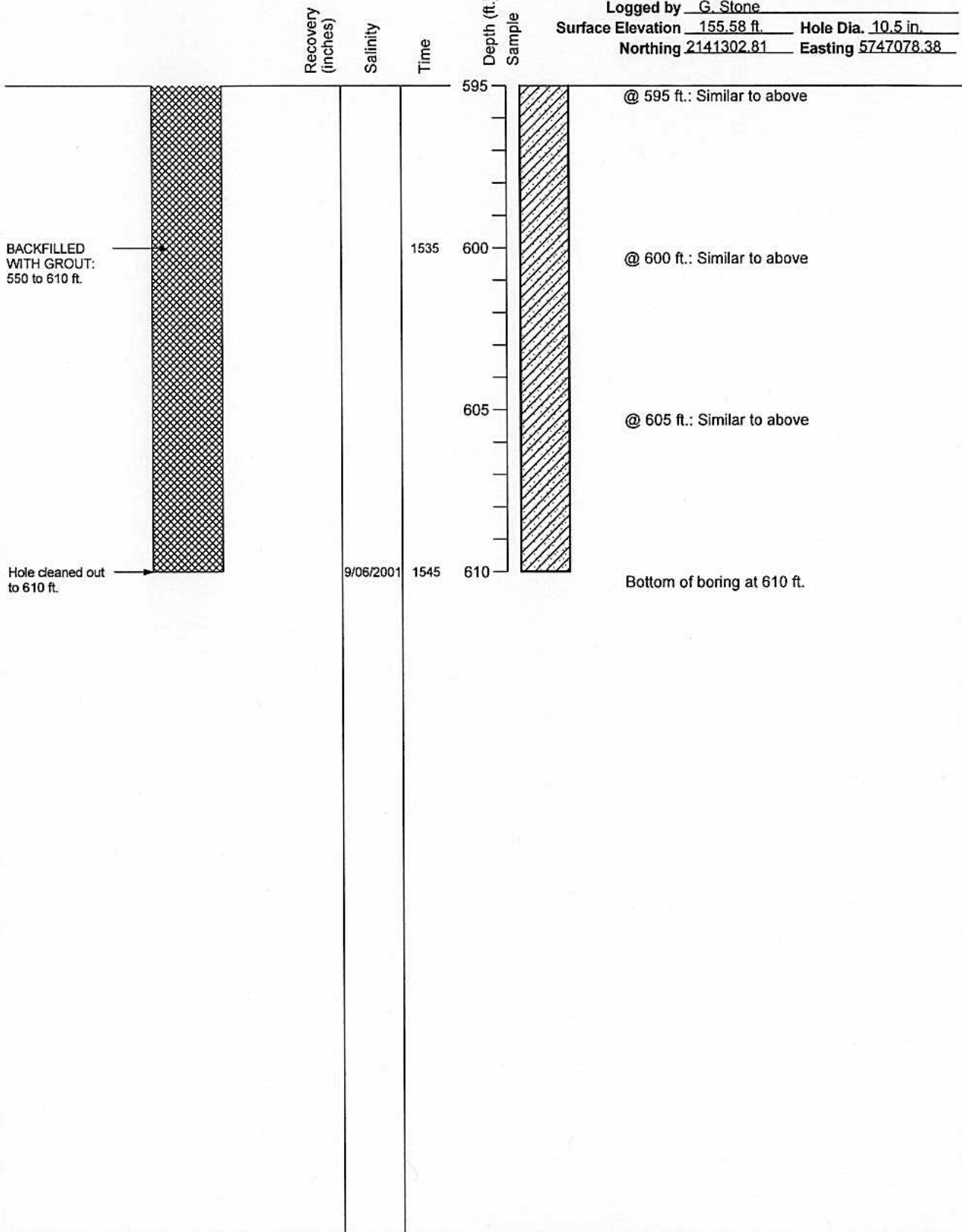
A35**MACTEC**DRAWN
TACJOB NUMBER
55596 001701

APPROVED

*MDT / JCN*DATE
11/04

REVISED DATE

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Well Construction Details and
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 OUCTP

Fort Ord, California

DRAWN
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A35

PLATE

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

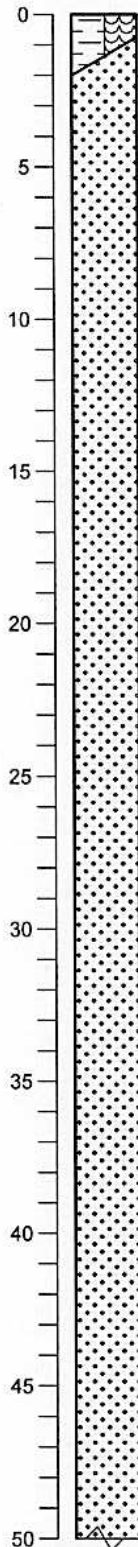
Top of PVC Casing
Elev. 152.15 ft.
CHRISTY
BOX

GROUND SURFACE
Top of casing at
0.5 ft. below
ground level

5 DIAMETER
SCHEDULE 40
PVC BLANK
CASING: 0 to 76
ft.

BENTONITE-
CEMENT SEAL: 0
to 68 ft.

Depth (ft.)
Sample



DARK BROWN SANDY ORGANIC SOIL
(OL/OH) (10YR 3/3) Loose, dry, 70% sand,
30% fines
YELLOWISH BROWN WELL GRADED
SAND (SW) (10YR 5/4) Loose, dry, 90%
sand, 10% silt

@ 5 ft.: Change to 90% fine to coarse sand

@ 10 ft.: Similar to above

@ 15 ft.: Color change to LIGHT
YELLOWISH BROWN (10YR 6/4)

@ 20 ft.: Color change to YELLOW (10YR
7/6) 95% sand, 5% silt

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above

@ 35 ft.: Similar to above

@ 40 ft.: Color change to BROWNISH
YELLOW (10YR 6/6)

@ 45 ft.: Similar to above

Completion Date 10/30/2000

Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 152.55 ft.

Hole Dia. 12 in.

Northing 2141327.39

Easting 5746909.545



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DRAWN
PCB

JOB NUMBER
55596 001701

Well Construction Details and
Log of Boring MW-BW-30-A
OUCTP

Fort Ord, California

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not/cm

DATE
11/04

REVISED DATE

A36

PLATE

Completion Date 10/30/2000

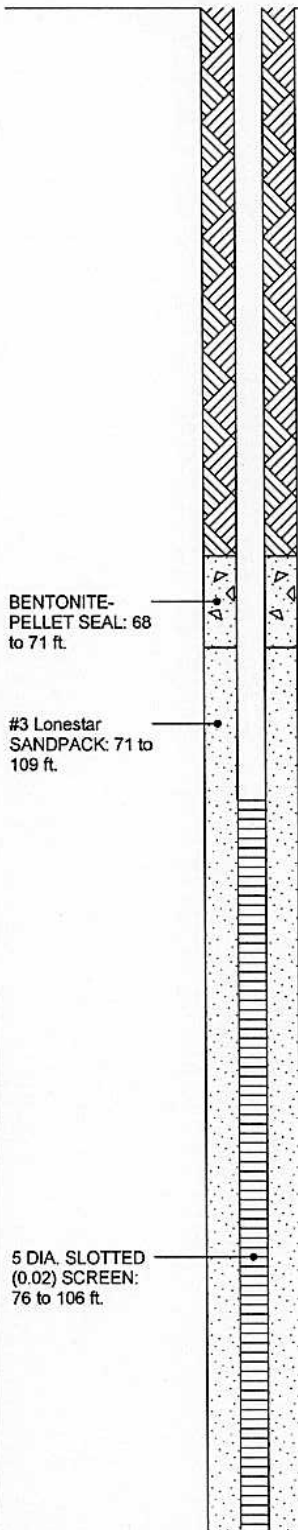
Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 152.55 ft. Hole Dia. 12 in.

Northing 2141327.39 Easting 5746909.545

Depth (ft.)
Sample



50
55
60
65
70
75
80
85
90
95
100

@ 50 ft.: Similar to above

@ 55 ft.: Color change to YELLOW (10YR 7/6)

@ 60 ft.: Similar to above, increase in fine sand

@ 70 ft.: Similar to above

@ 75 ft.: Similar to above, 95% sand, 5% silt
@ 76 ft.: Tighter drilling (may indicate silty zone or water presence)

@ 80 ft.: Similar to above, sand is moist

@ 83 ft.: Increase in moisture content

@ 85 ft.: Similar to above, sand is moist to wet

@ 90 ft.: Color change to YELLOWISH BROWN (10YR 5/4), wet

@ 95 ft.: Similar to above

BORING WELL OUCTP OUCTPV6 GPJ FTO OUCTP GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-30-A
OUCTP

Fort Ord, California

PLATE

A36

DRAWN
PCB

JOB NUMBER
55596 001701

APPROVED

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DATE
11/04

REVISED DATE

Completion Date 10/30/2000

Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 152.55 ft. Hole Dia. 12 in.

Northing 2141327.39 Easting 5746909.545

Depth (ft.)
Sample

BOTTOM WELL
CAP: 106.5 ft.

BOTTOM OF
BOREHOLE: 114
ft.

100
105
110

@ 100 ft.: Similar to above, 95% sand, 5% silt

@ 102 ft.: Driller notes tighter drilling, color change to 10YR 6/4
YELLOWISH BROWN SILTY SAND (SM) (10YR 5/4) Dense, wet, 70% sand, 30% silt, trace green color on auger

@ 105 ft.: Driller notes a change (tighter with 12 in. auger)
LIGHT OLIVE BROWN SANDY FAT CLAY (CL) (2.5Y 5/4) Dense, wet, 70% clay, 30% sand, trace green color on auger

@ 110 ft.: Similar to above

DARK GREENISH GRAY LEAN CLAY WITH SAND (CL) (10Y 4/1) Very dense, moist, 70% clay, 15% sand, 5% silt Bottom of boring at 114 ft.

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-30-A
OUCTP

Fort Ord, California

PLATE

A36

DRAWN
PCB

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DATE
11/04

REVISED DATE

BORING WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Top of PVC Casing
Elev. 137.11 ft.
CHRISTY
BOX

GROUND SURFACE

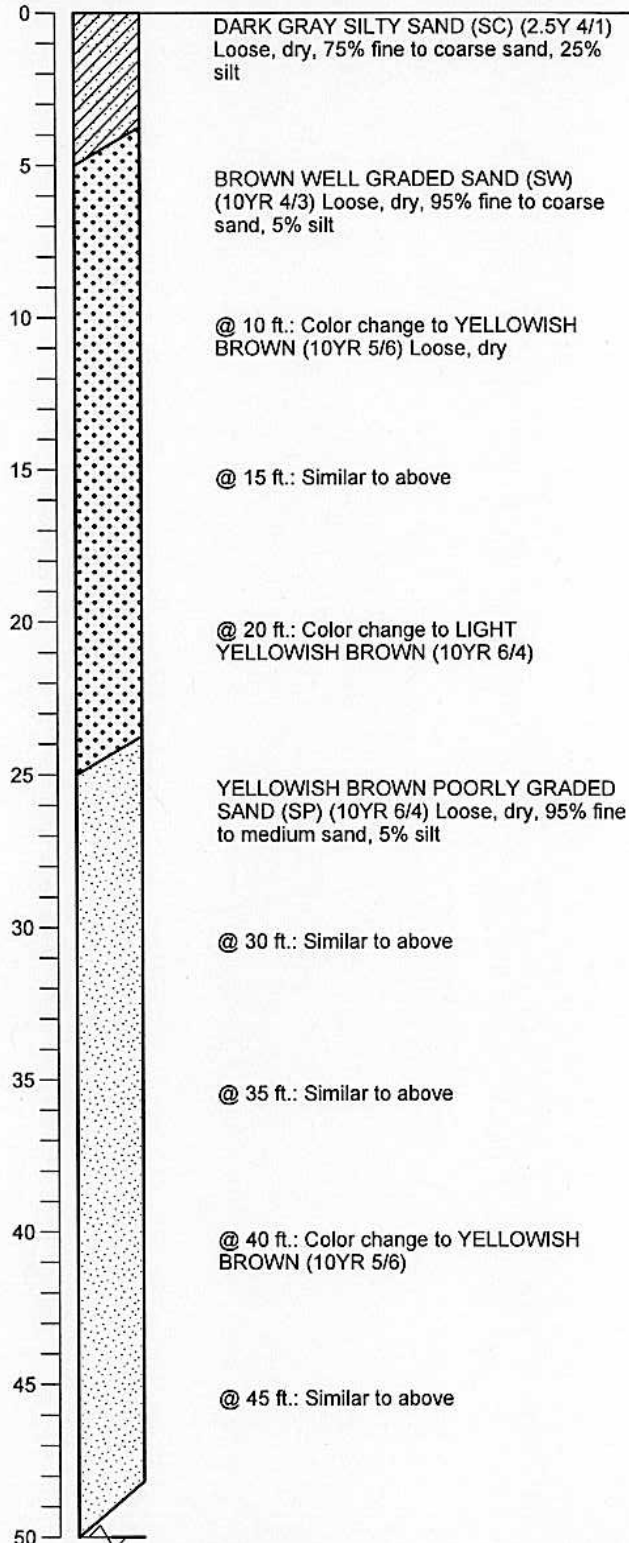
BENTONITE-
CEMENT SEAL: 0
to 141 ft.

Salinity

Time

Depth (ft.)
Sample

Completion Date 9/20/2001
Drilling Method ARCH/mud rotary
Logged by D. Browne
Surface Elevation 136.64 ft. Hole Dia. 10.5 in.
Northing 2141618.67 Easting 5747516.29



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Well Construction Details and
Log of Boring MW-BW-31-180
OUCTP

PLATE

Fort Ord, California

DRAWN
CN

JOB NUMBER
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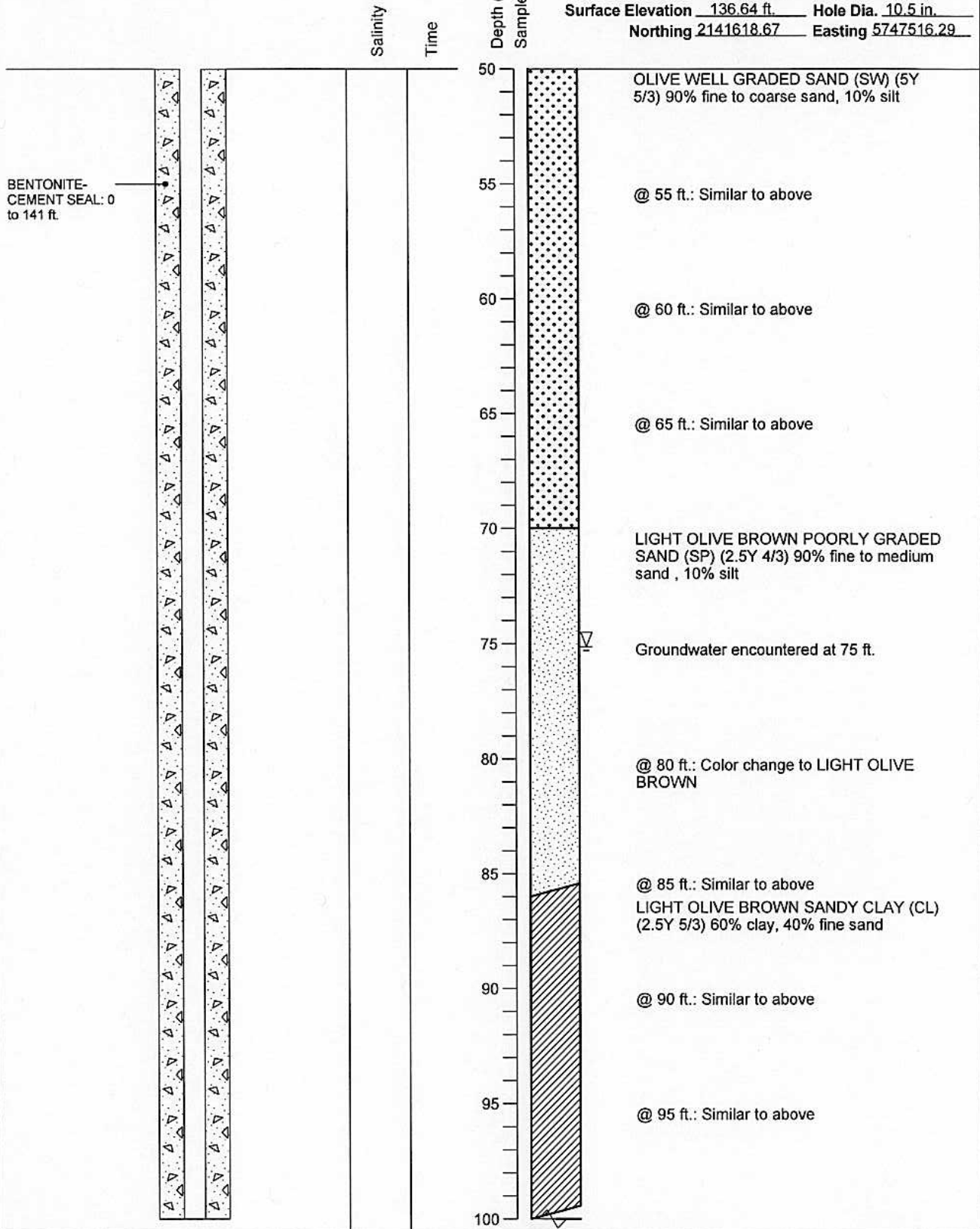
DATE
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A37

Completion Date 9/20/2001
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BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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 OUCTP

PLATE

Fort Ord, California

DRAWN
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JOB NUMBER
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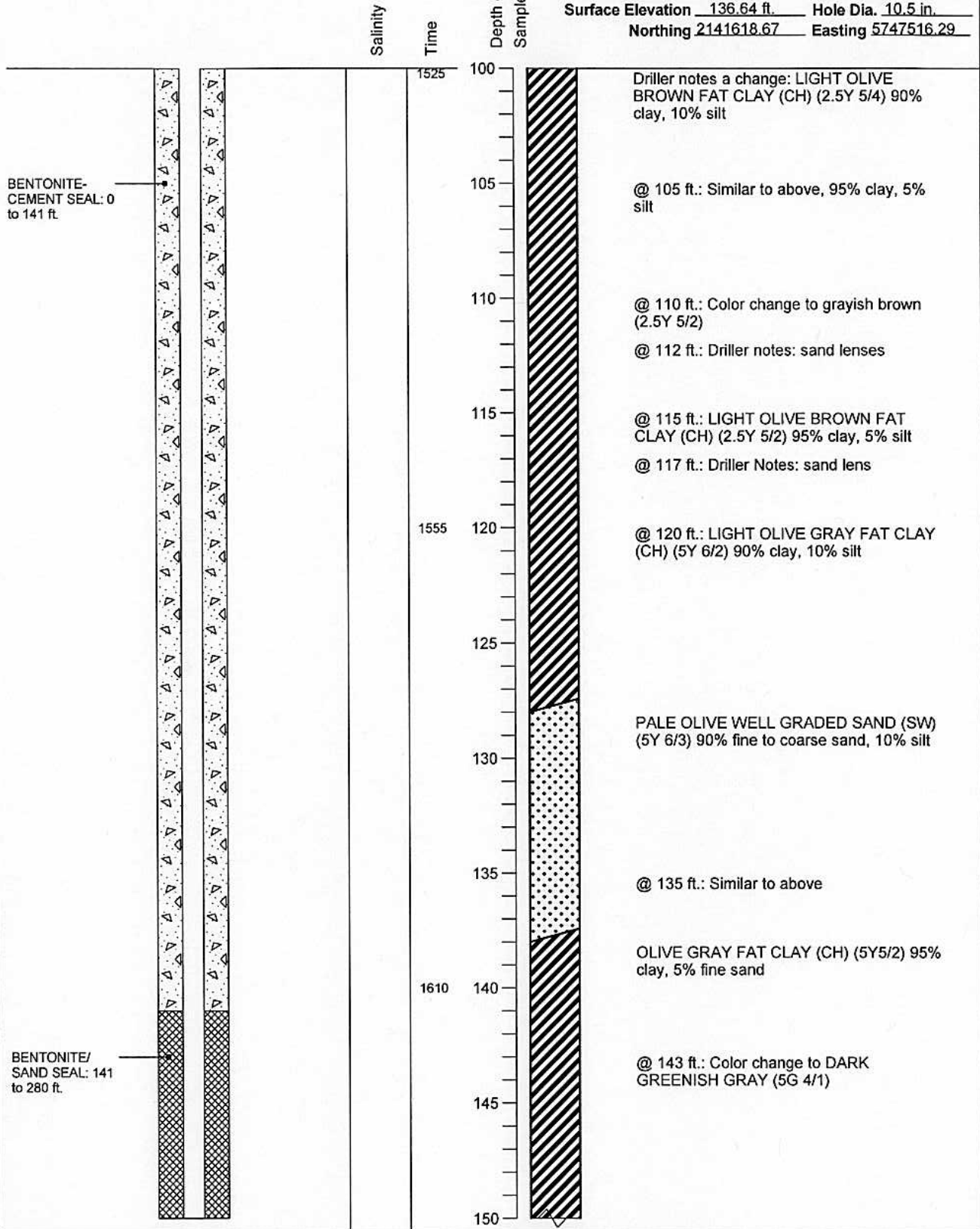
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PLATE

Fort Ord, California

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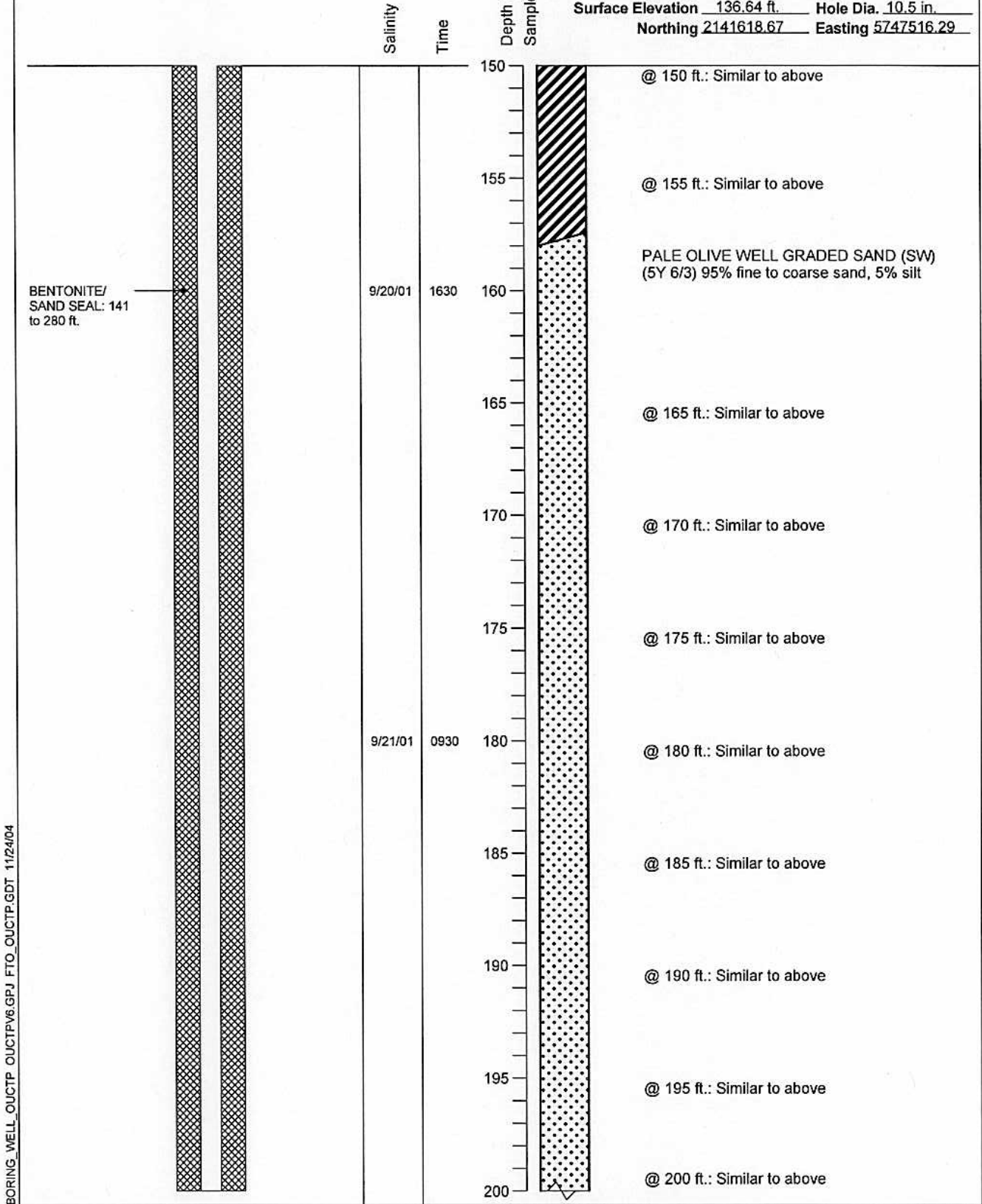
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BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Fort Ord, California

PLATE

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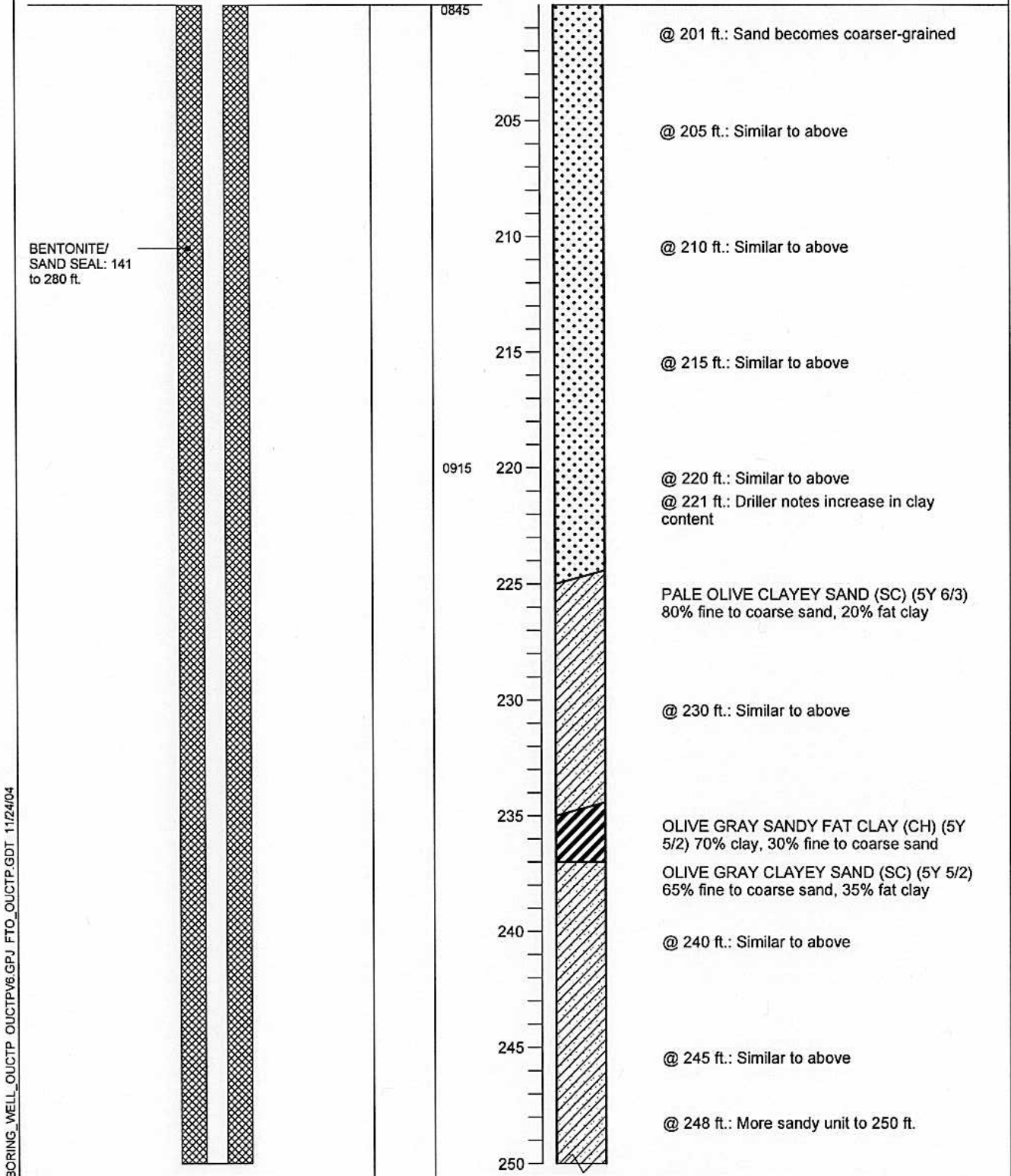
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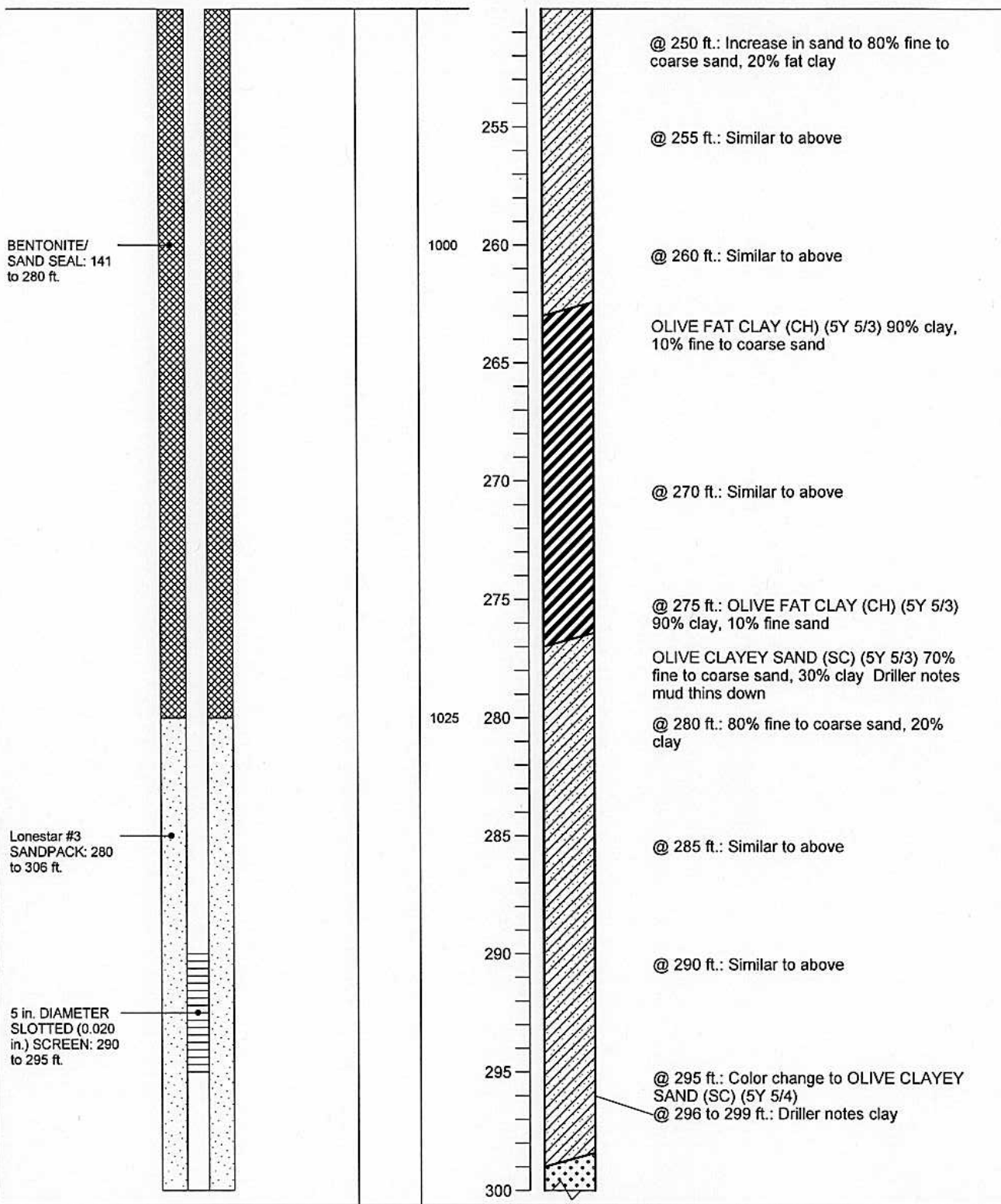
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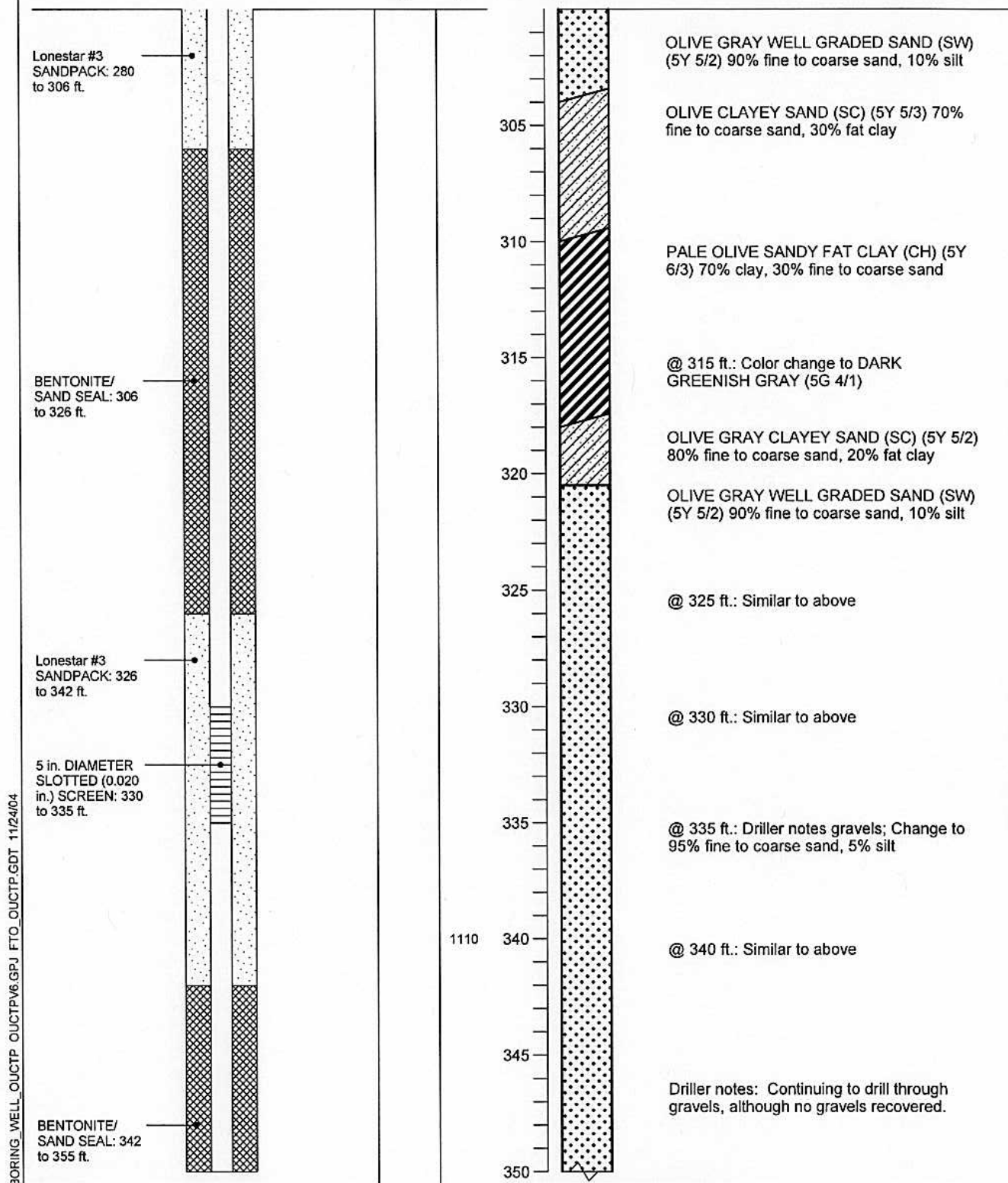
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Well Construction Details and
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PLATE

A37

DRAWN CN	JOB NUMBER 55596 001701	APPROVED <i>MDT/cmr</i>	DATE 11/04	REVISED DATE
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Completion Date 9/20/2001Drilling Method ARCH/mud rotaryLogged by D. BrowneSurface Elevation 136.64 ft. Hole Dia. 10.5 in.Northing 2141618.67 Easting 5747516.29

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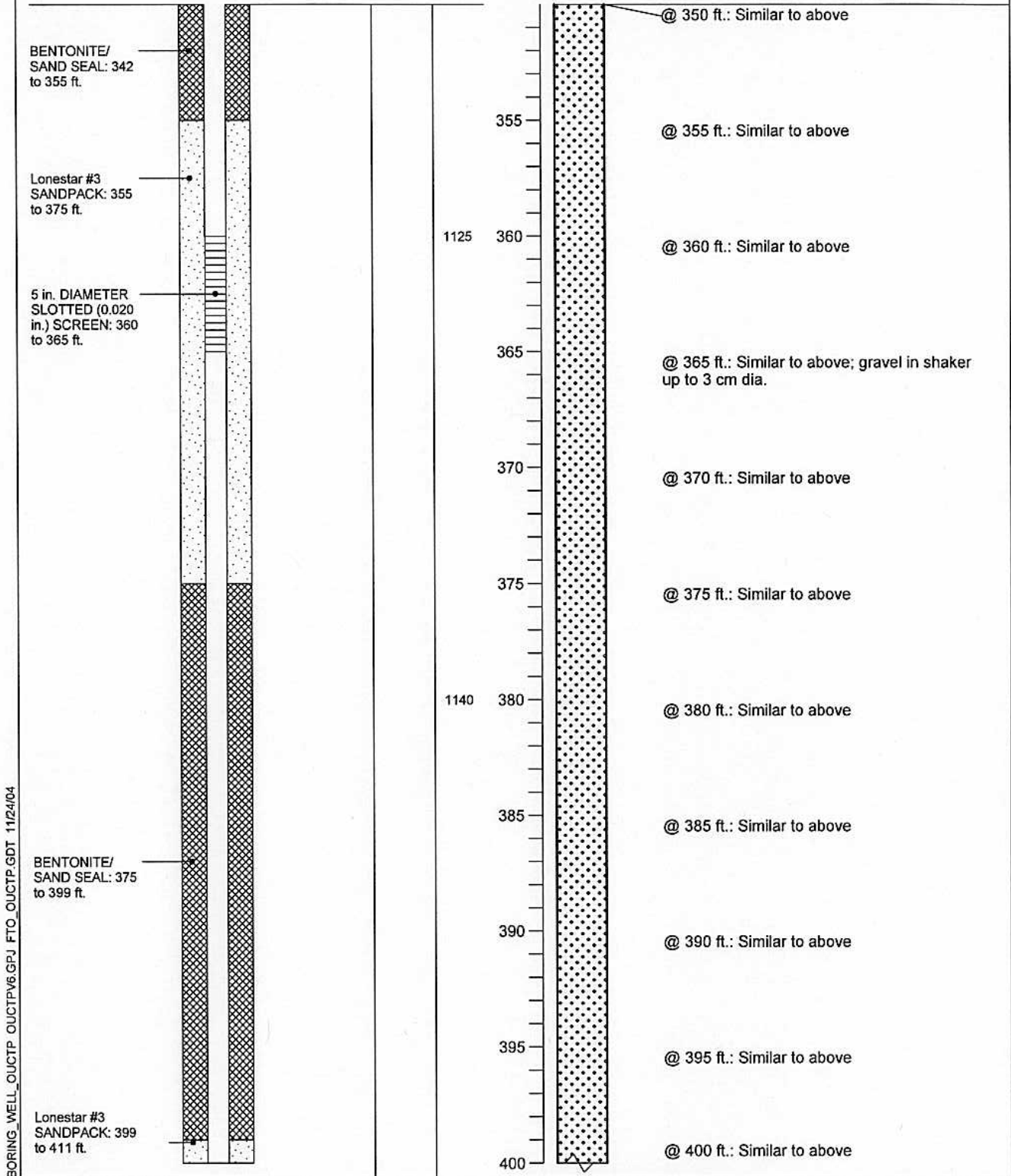
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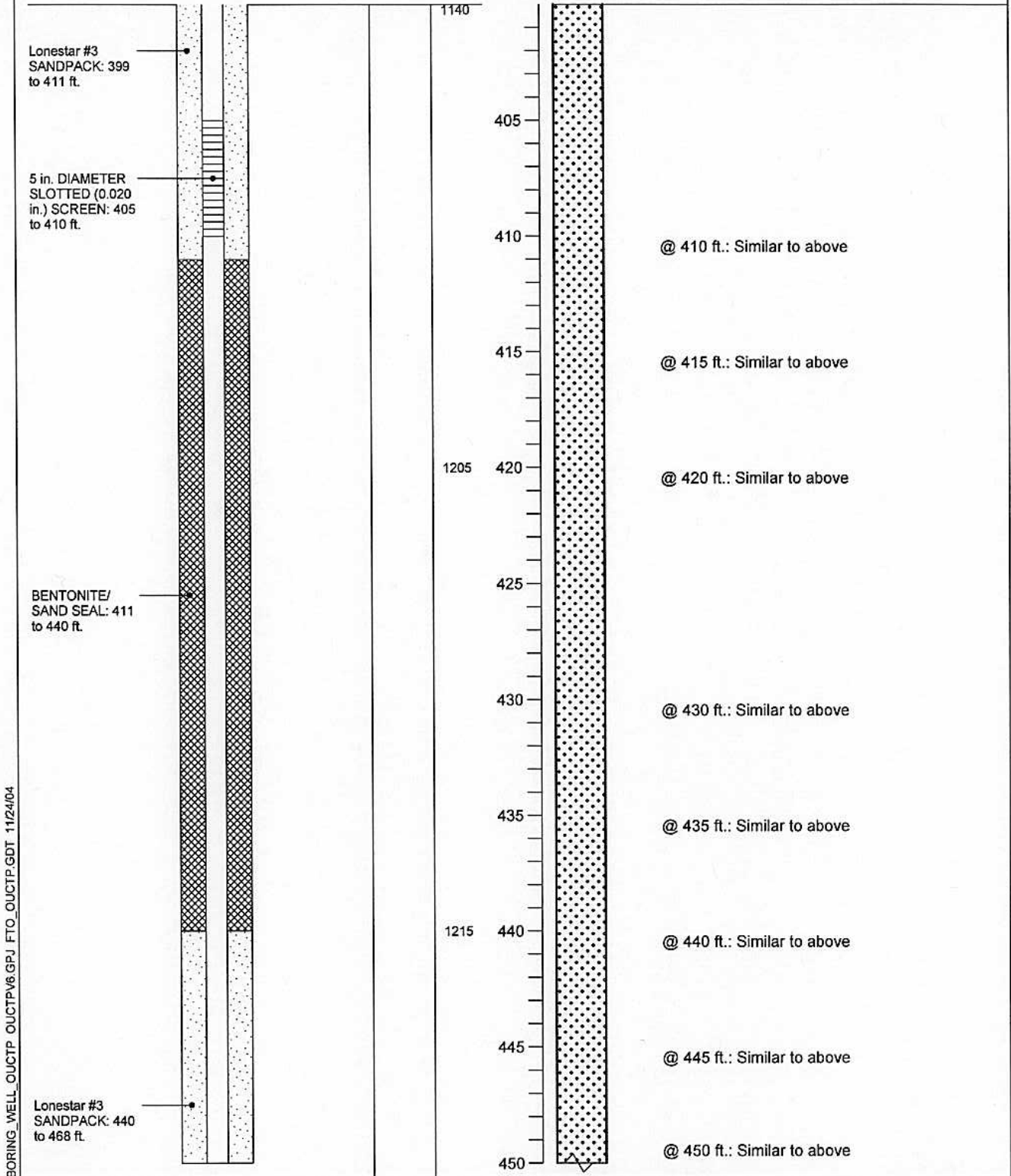
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Drilling Method ARCH/mud rotary

Logged by D. Browne

Surface Elevation 136.64 ft. Hole Dia. 10.5 in.

Northing 2141618.67 Easting 5747516.29

Salinity

Time

Depth (ft.)
Sample

Lonestar #3
SANDPACK: 440
to 468 ft.

5 in. DIAMETER
SLOTTED (0.020
in.) SCREEN: 455
to 460 ft.

BENTONITE/
SAND SEAL: 468
to 514 ft.

@ 455 ft.: Similar to above

@ 460 ft.: Similar to above

@ 465 ft.: Similar to above

OLIVE BROWN CLAYEY SAND (SC) (2.5Y
4/3) 70% fine to coarse sand, 30% clay

@ 475 ft.: Similar to above

@ 480 ft.: Similar to above

@ 485 ft.: Similar to above

LIGHT OLIVE BROWN WELL GRADED
SAND (SP) (2.5Y 4/3) 90% fine sand, 10%
silt

@ 495 ft.: Similar to above

GRAYISH BROWN SANDY FAT CLAY
(2.5Y 5/2) 60% fat clay, 40% fine sand

500

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-31-180

OUCTP

Fort Ord, California

PLATE

A37

DRAWN
CN

JOB NUMBER
55596 001701

APPROVED

MDT / car

DATE
11/04

REVISED DATE

Completion Date 9/20/2001

Drilling Method ARCH/mud rotary

Logged by D. Browne

Surface Elevation 136.64 ft. Hole Dia. 10.5 in.

Northing 2141618.67 Easting 5747516.29

Salinity

Time

Depth (ft.)
Sample

BENTONITE/
SAND SEAL: 468
to 514 ft.

Lonestar #3
SANDPACK: 514
to 540 ft.

5 in. DIAMETER
SLOTTED (0.020
in.) SCREEN: 520
to 525 ft.

5 in. DIA. SCHED.
40 PVC BLANK
SILT TRAP: 525 to
535 ft.

BOTTOM WELL
CAP: 535 ft.

@ 500 ft.: Similar to above

GRAYISH BROWN CLAYEY SAND (SC)
(2.5Y 5/2) 70% fine to coarse sand, 30% fat
clay

@ 510 ft.: Similar to above

@ 515 ft.: Similar to above

@ 520 ft.: Similar to above

@ 525 ft.: Similar to above

@ 530 ft.: Similar to above

@ 535 ft.: Change to 65% fine to coarse
sand, 35% clay

BROWN SILT WITH SAND (ML) (7.5YR
4/3) 85% silt, 15% fine sand

Bottom of boring at 540 ft.

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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OUCTP

Fort Ord, California

PLATE

A37

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Top of PVC Casing
Elev. 126.07 ft.

GROUND SURFACE

Top of casing at
1.5 ft. above
ground level
5 DIAMETER
SCHEDULE 40
PVC BLANK
CASING: 0 to 65
ft.
BENTONITE-
CEMENT SEAL: 0
to 58 ft.

BENTONITE-
PELLET SEAL: 58
to 60 ft.
Lonestar #2/12
SANDPACK: 60 to
96 ft.

5 DIA. SLOTTED
(0.02) SCREEN:
65 to 95 ft.

BOTTOM WELL
CAP: 96 ft.
BOTTOM OF
BOREHOLE: 97 ft.

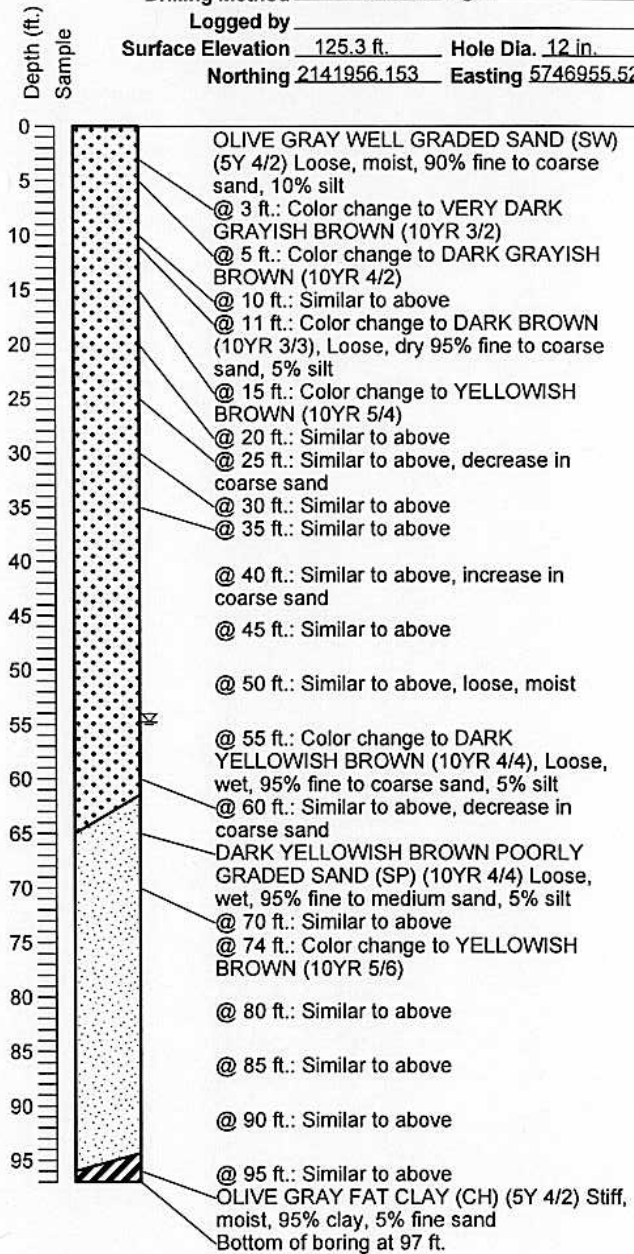
Completion Date 11/18/2000

Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 125.3 ft. Hole Dia. 12 in.

Northing 2141956.153 Easting 5746955.528



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
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OUCTP

Fort Ord, California

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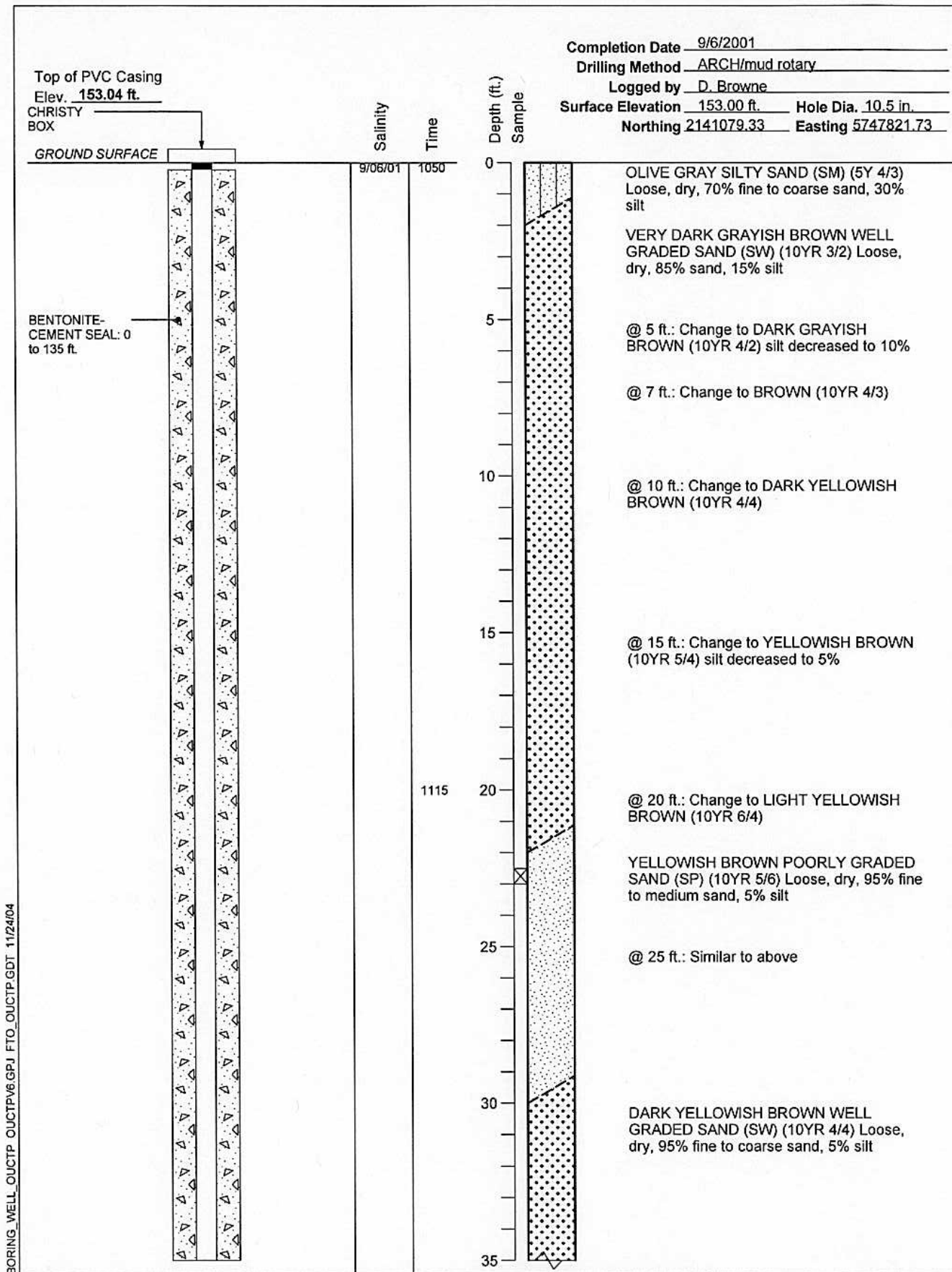
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11/04

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A38

PLATE



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Well Construction Details and
 Log of Boring MW-BW-32-180
 OUCTP

Fort Ord, California

PLATE

A39

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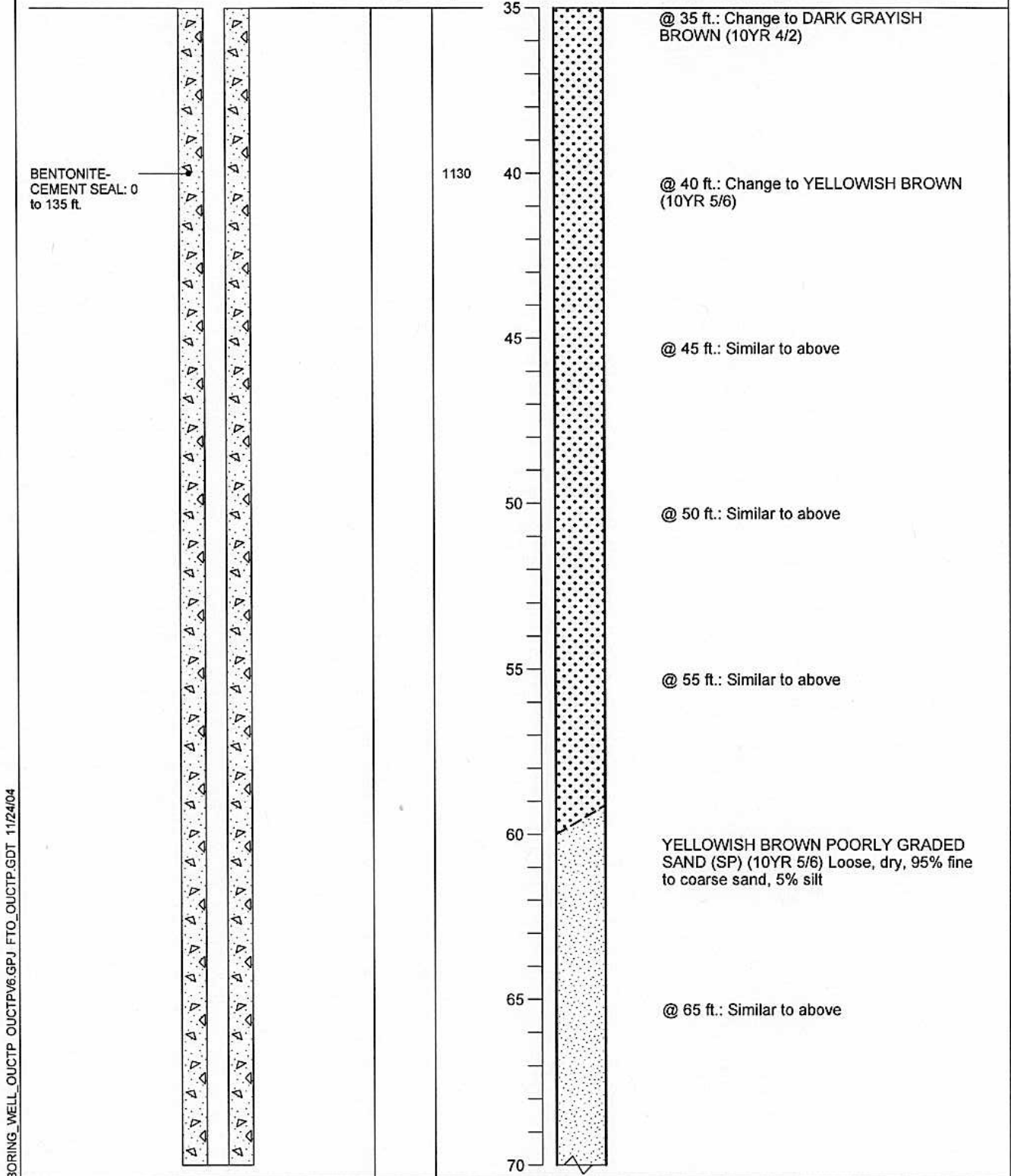
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 55596 001701

APPROVED
AST / car

DATE
 11/04

REVISED DATE

Completion Date 9/6/2001
 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 153.00 ft. Hole Dia. 10.5 in.
 Northing 2141079.33 Easting 5747821.73



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
 Log of Boring MW-BW-32-180
 OUCTP

PLATE



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Fort Ord, California

A39

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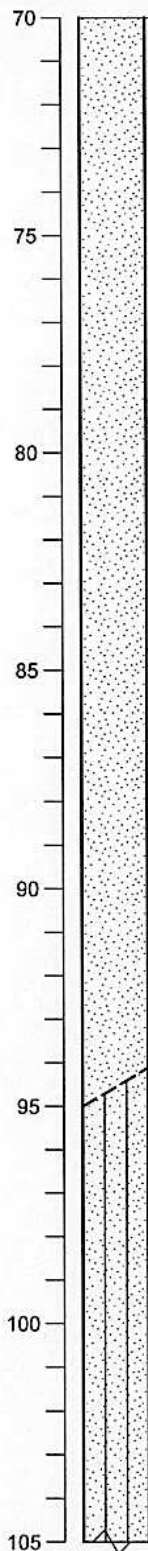
BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

BENTONITE-
CEMENT SEAL: 0
to 135 ft.

Salinity

Time

Depth (ft.)
Sample



@ 70 ft.: Similar to above

@ 75 ft.: Similar to above, moist

@ 80 ft.: Similar to above, moist to wet

@ 85 ft.: Change to wet, 90% fine to coarse
sand, 10% silt

@ 90 ft.: Similar to above

YELLOWISH BROWN SILTY SAND (SM)
(10YR 5/6) Loose, wet, 85% fine to medium
sand, 15% silt

@ 100 ft.: Similar to above

Marsh Funnel=34

Well Construction Details and
Log of Boring MW-BW-32-180
OUCTP

PLATE



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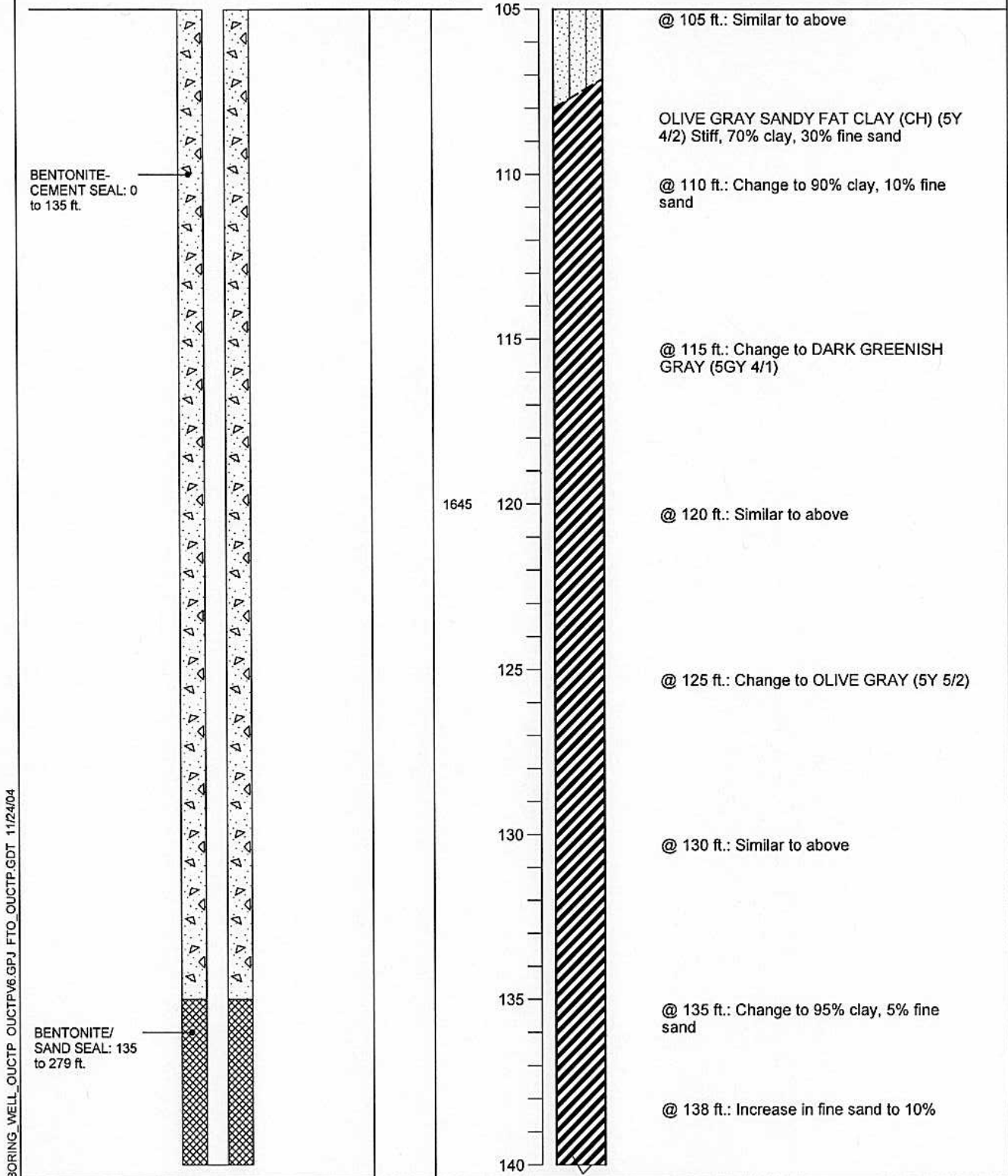
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BORING WELL OUCTP OUCTPV6.GPJ FTO OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MW-BW-32-180
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A39

Fort Ord, California

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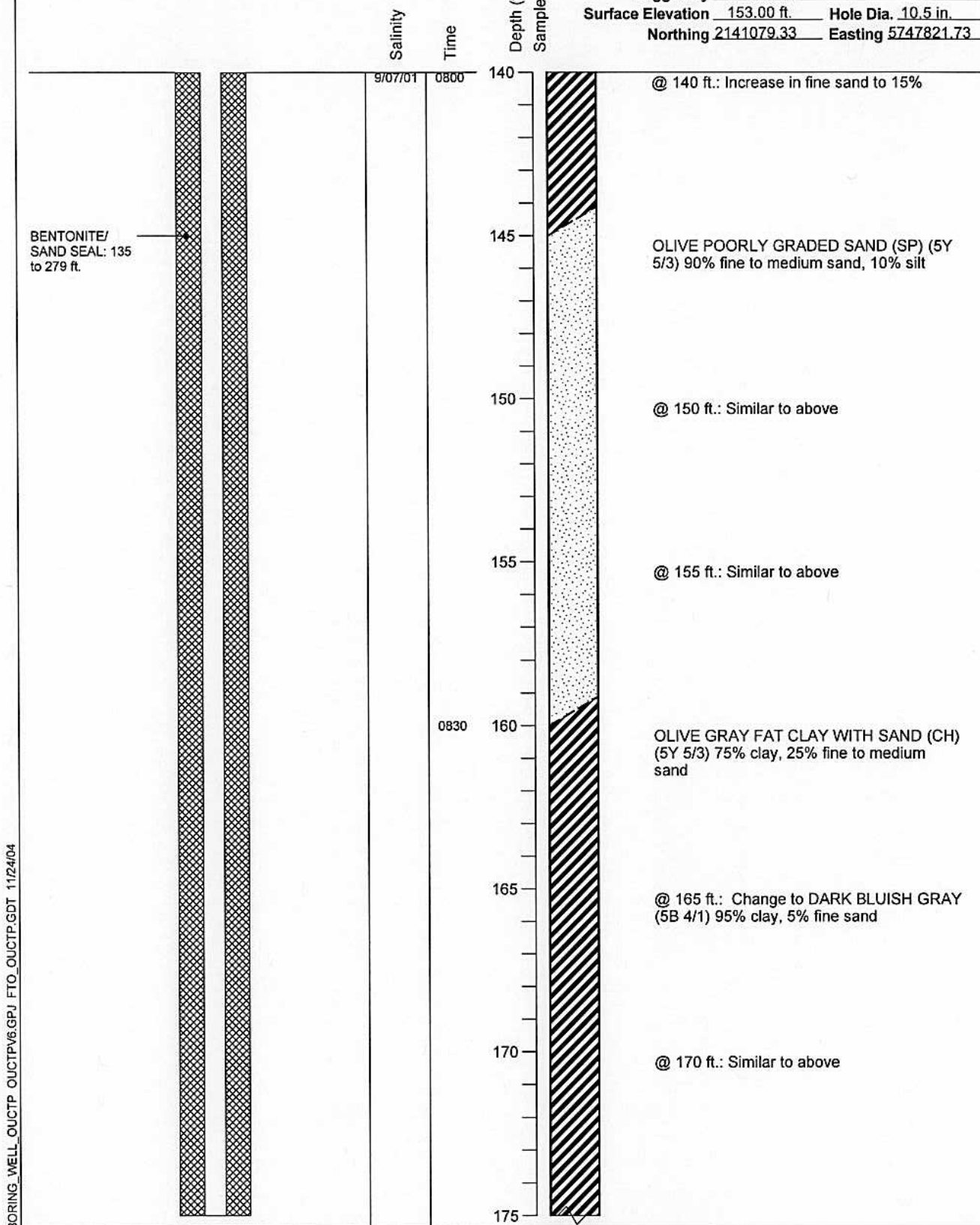
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Fort Ord, California

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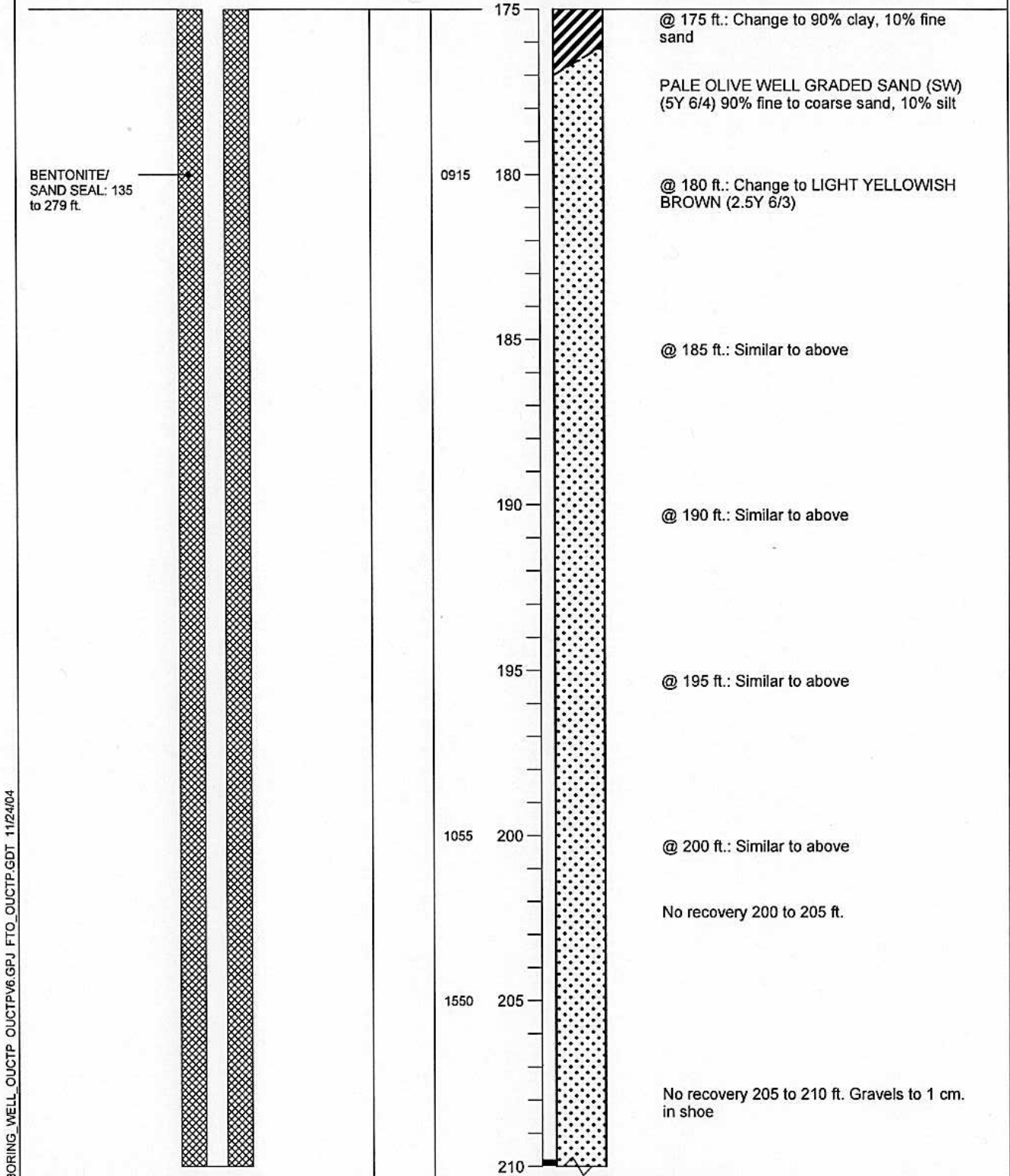
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BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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**Well Construction Details and
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OUCTP

Fort Ord, California

PLATE

A39

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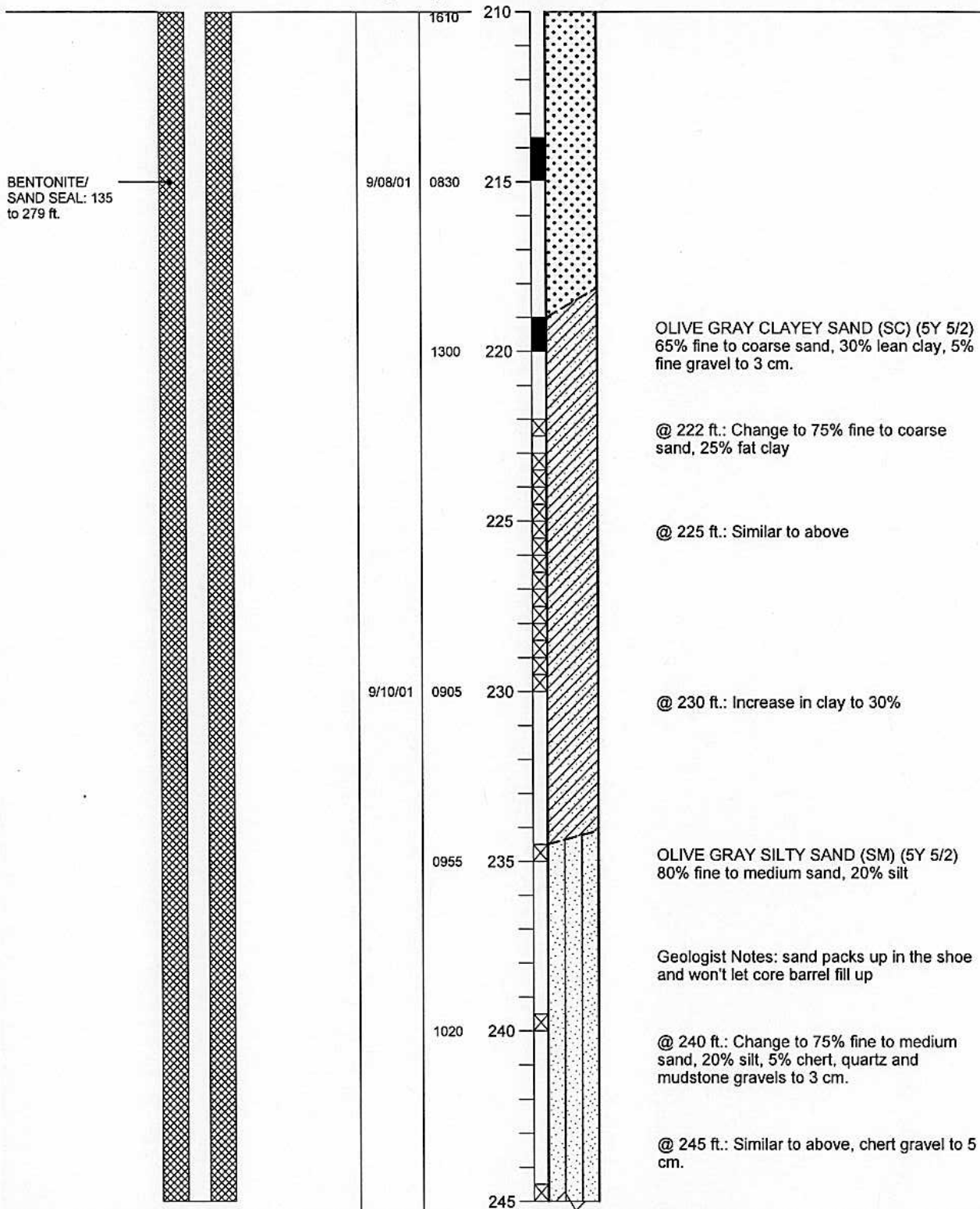
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BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
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OUCTP

Fort Ord, California

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A39

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TACJOB NUMBER
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REVISED DATE

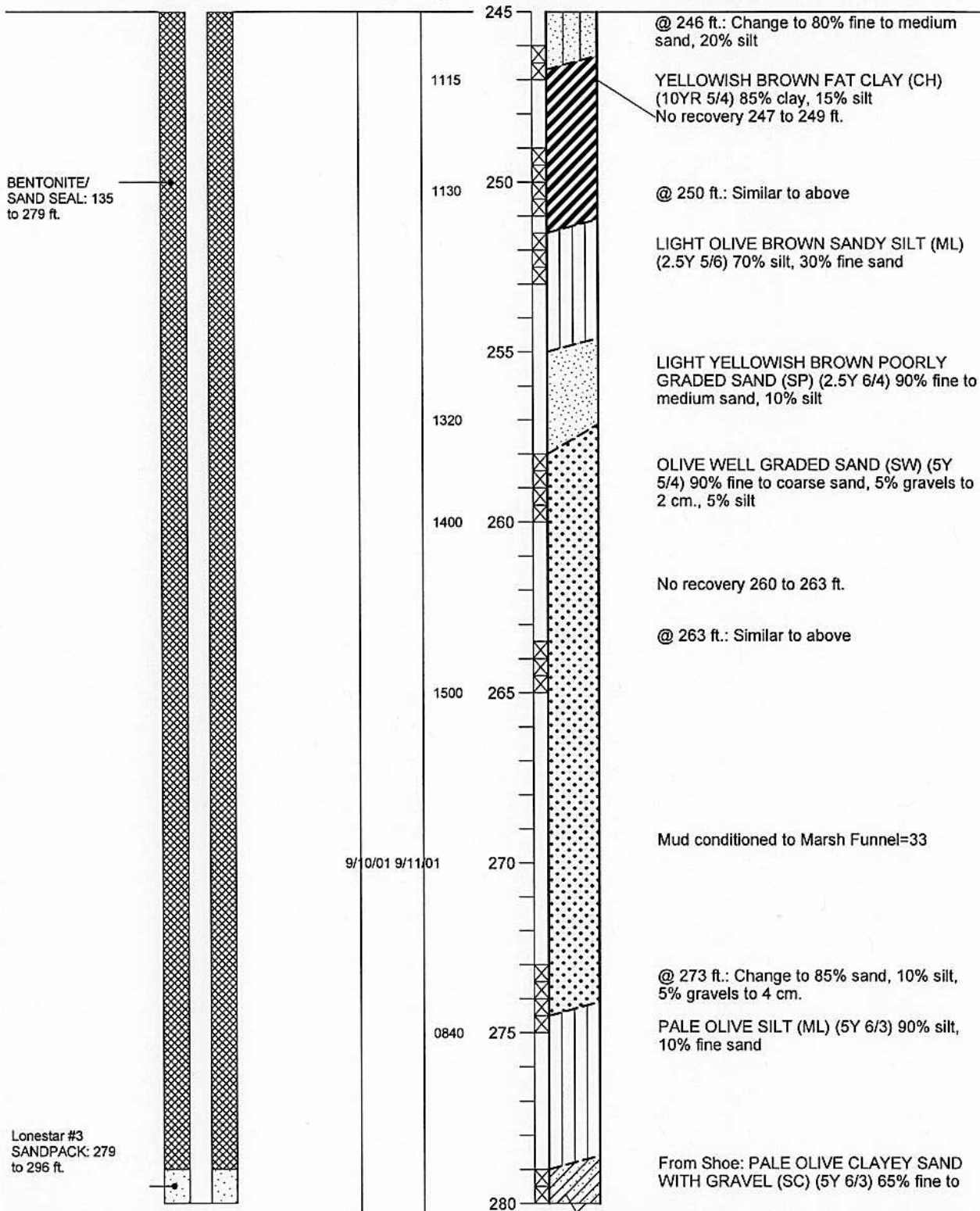
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Well Construction Details and
Log of Boring MW-BW-32-180
OUCTP

PLATE



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DATE
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REVISED DATE

A39

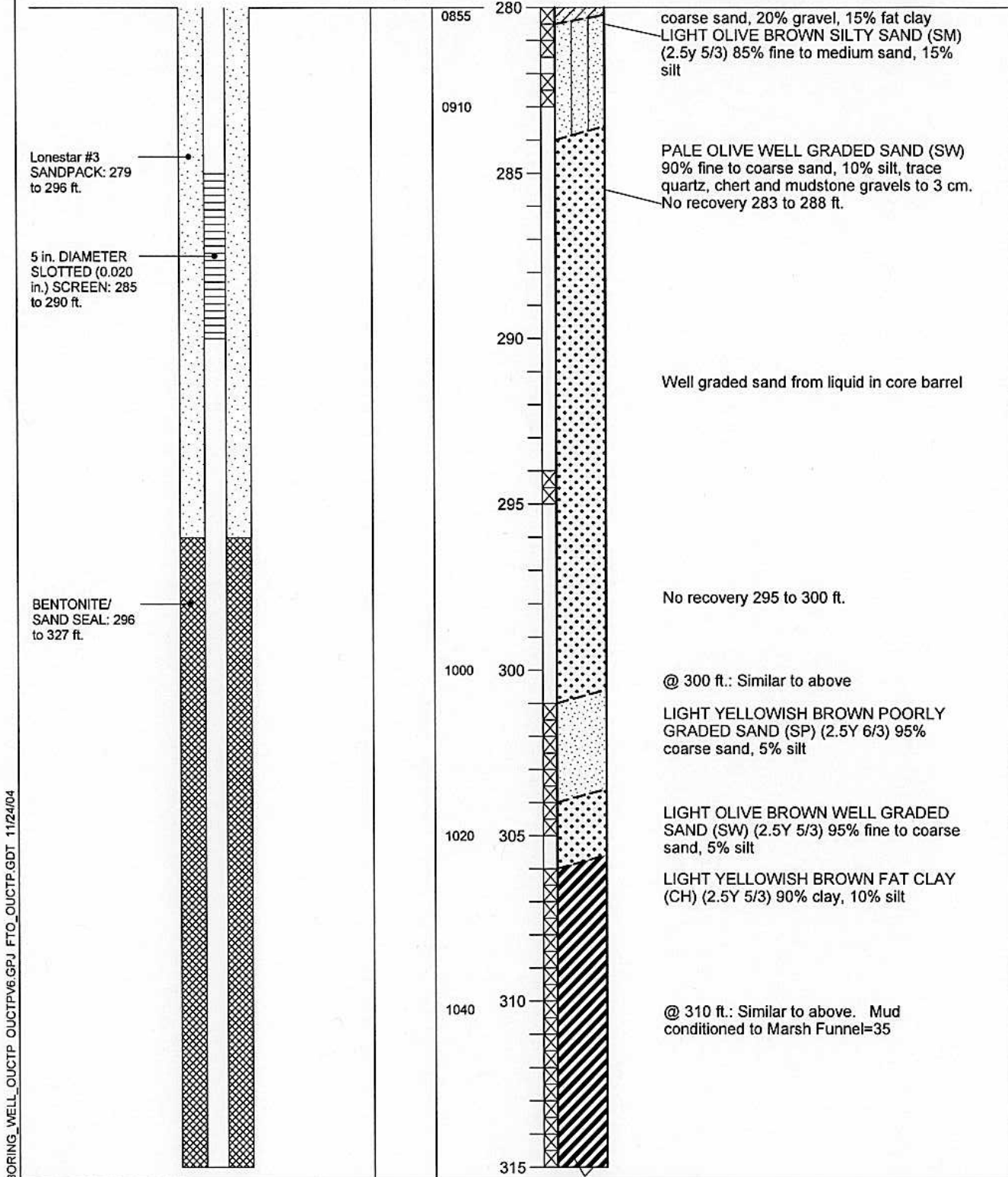
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Logged by D. Browne

Surface Elevation 153.00 ft. Hole Dia. 10.5 in.

Northing 2141079.33 Easting 5747821.73



BORING_WELL_OUCTP OUCTP V6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
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OUCTP

PLATE



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A39

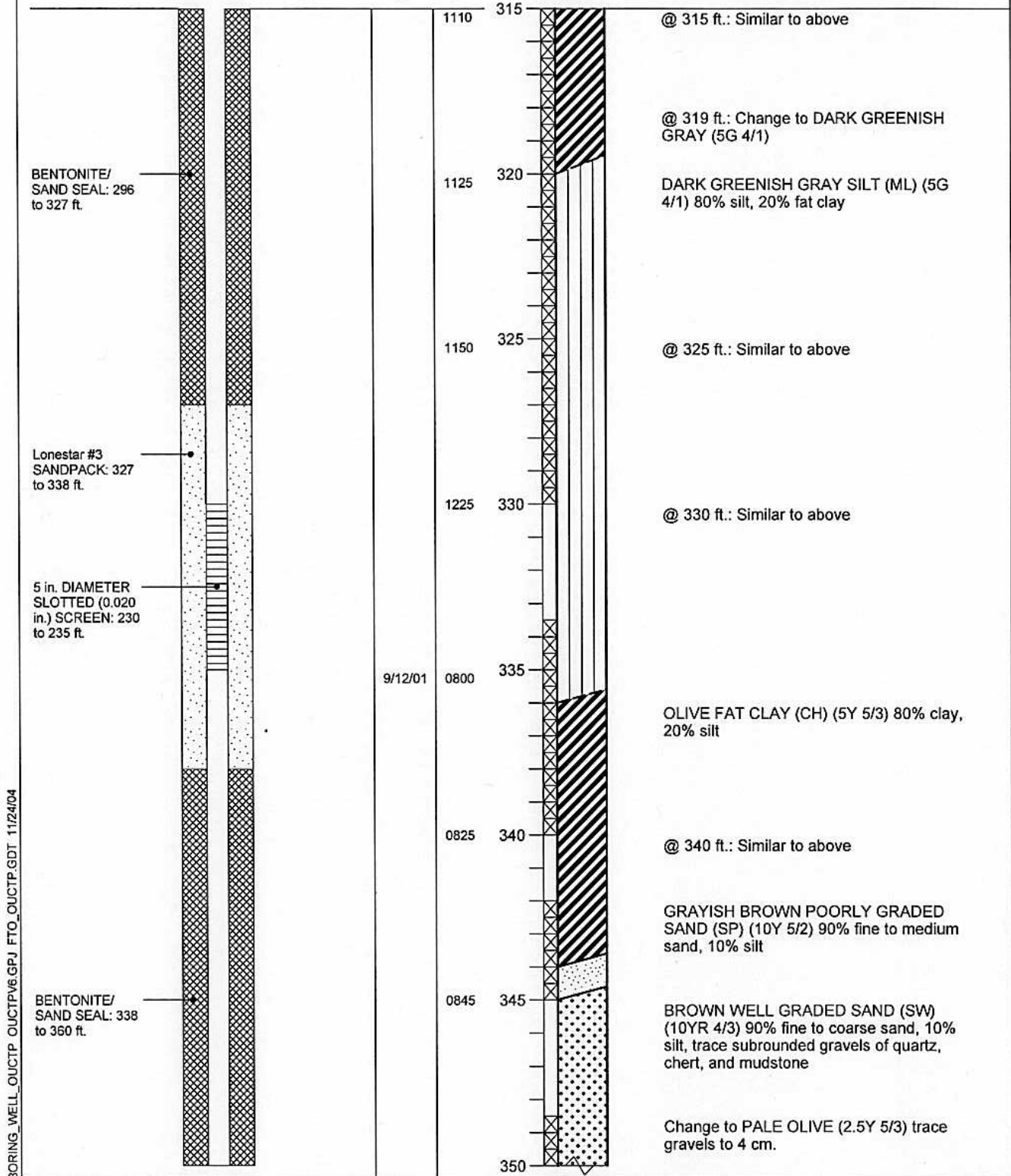
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OUCTP

Fort Ord, California

A39



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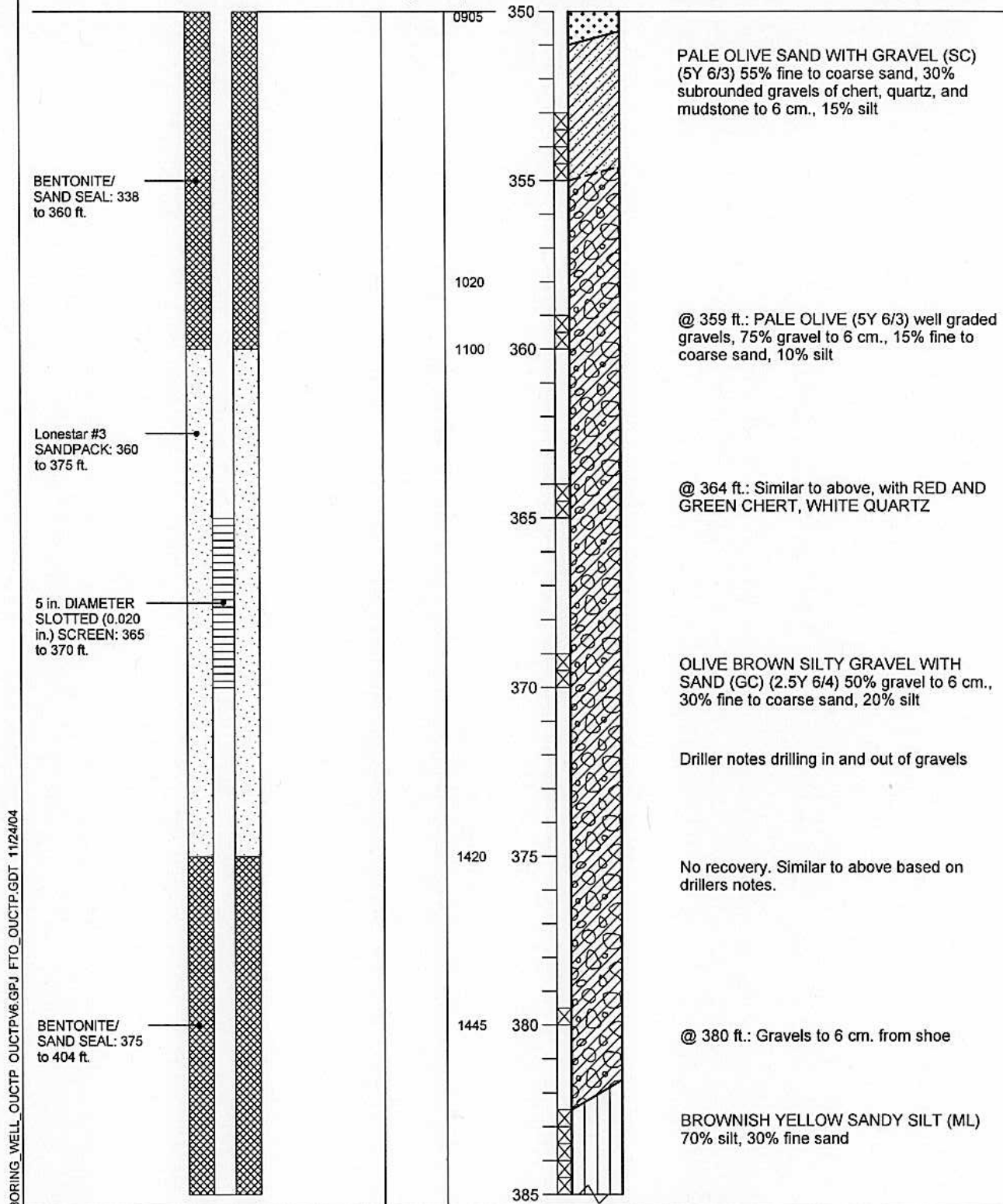
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OUCTP

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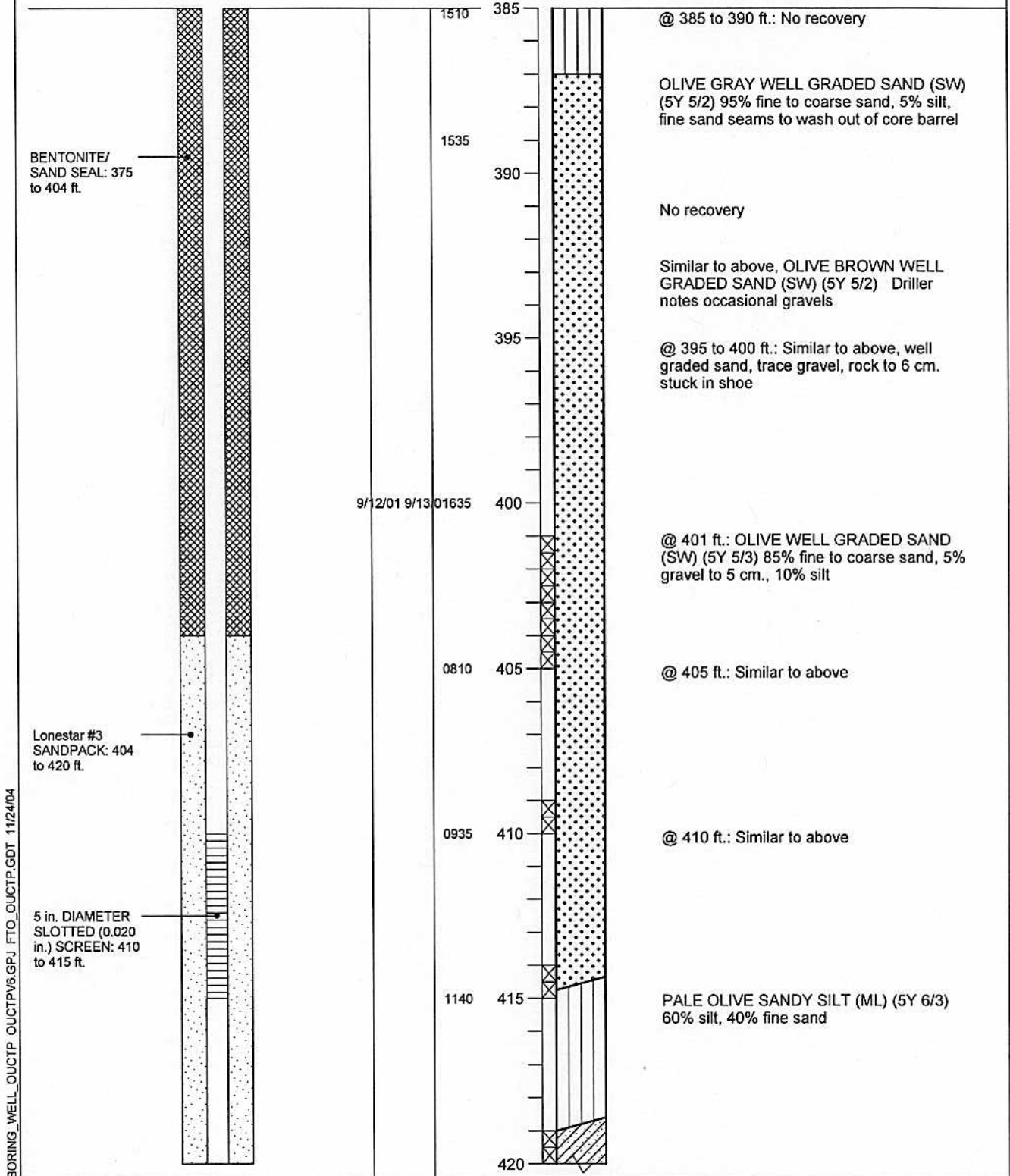
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A39

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BORING_WELL_OUCTP_OUCTPV6.GPJ_FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
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 OUCTP

Fort Ord, California

PLATE

A39

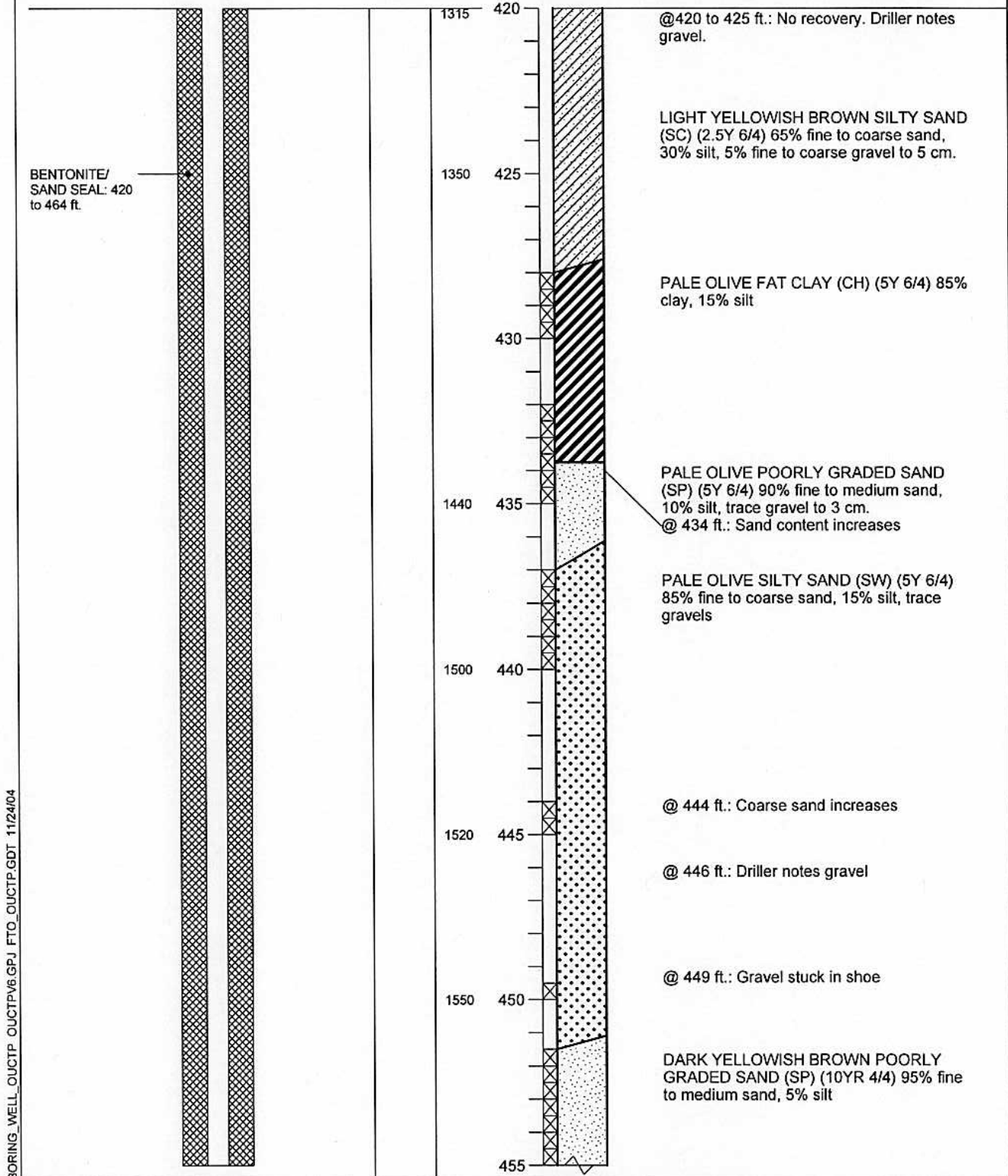
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Well Construction Details and
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OUCTP

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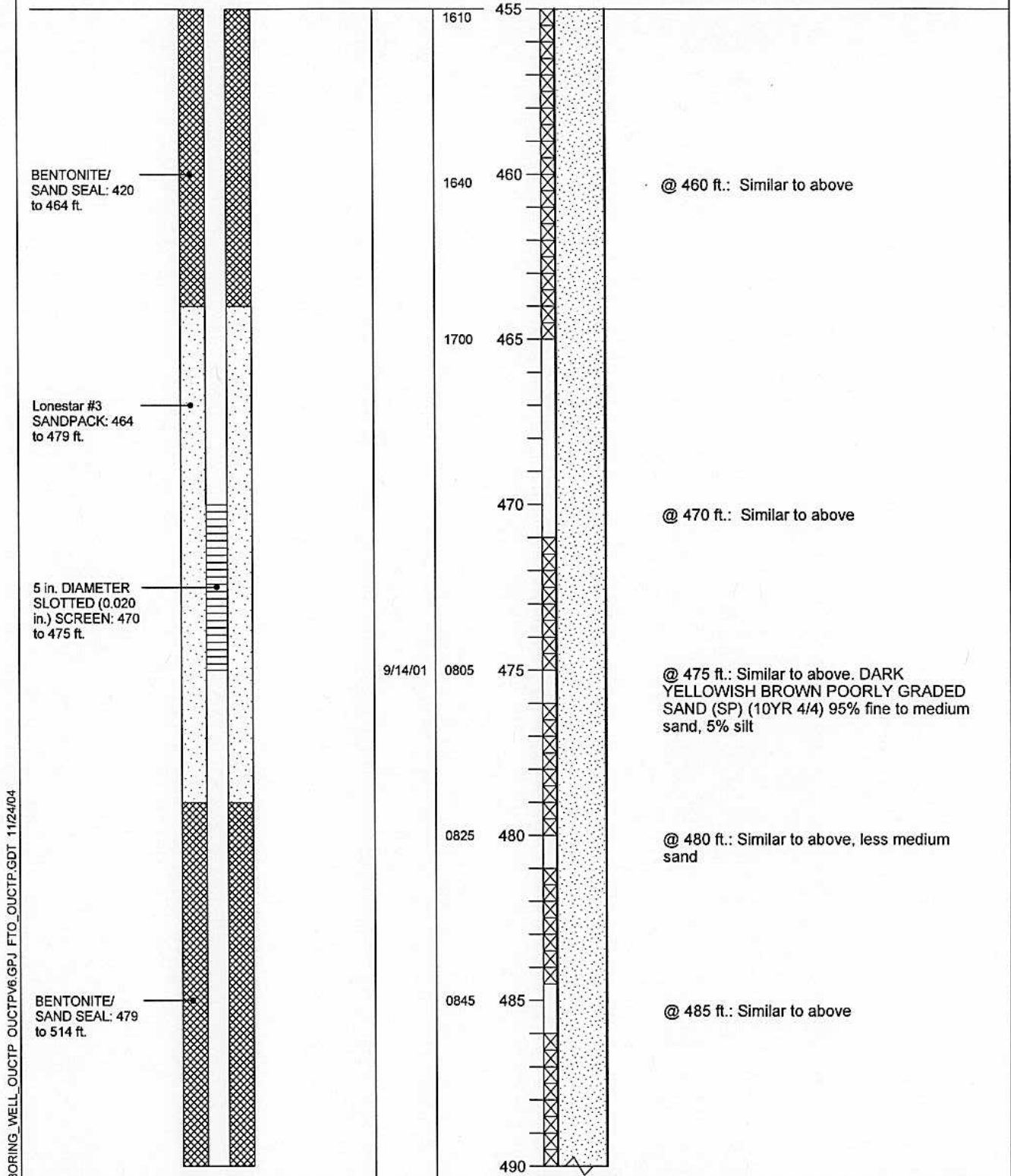
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A39

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 Surface Elevation 153.00 ft. Hole Dia. 10.5 in.
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BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
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 OUCTP

Fort Ord, California

PLATE

A39

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JOB NUMBER
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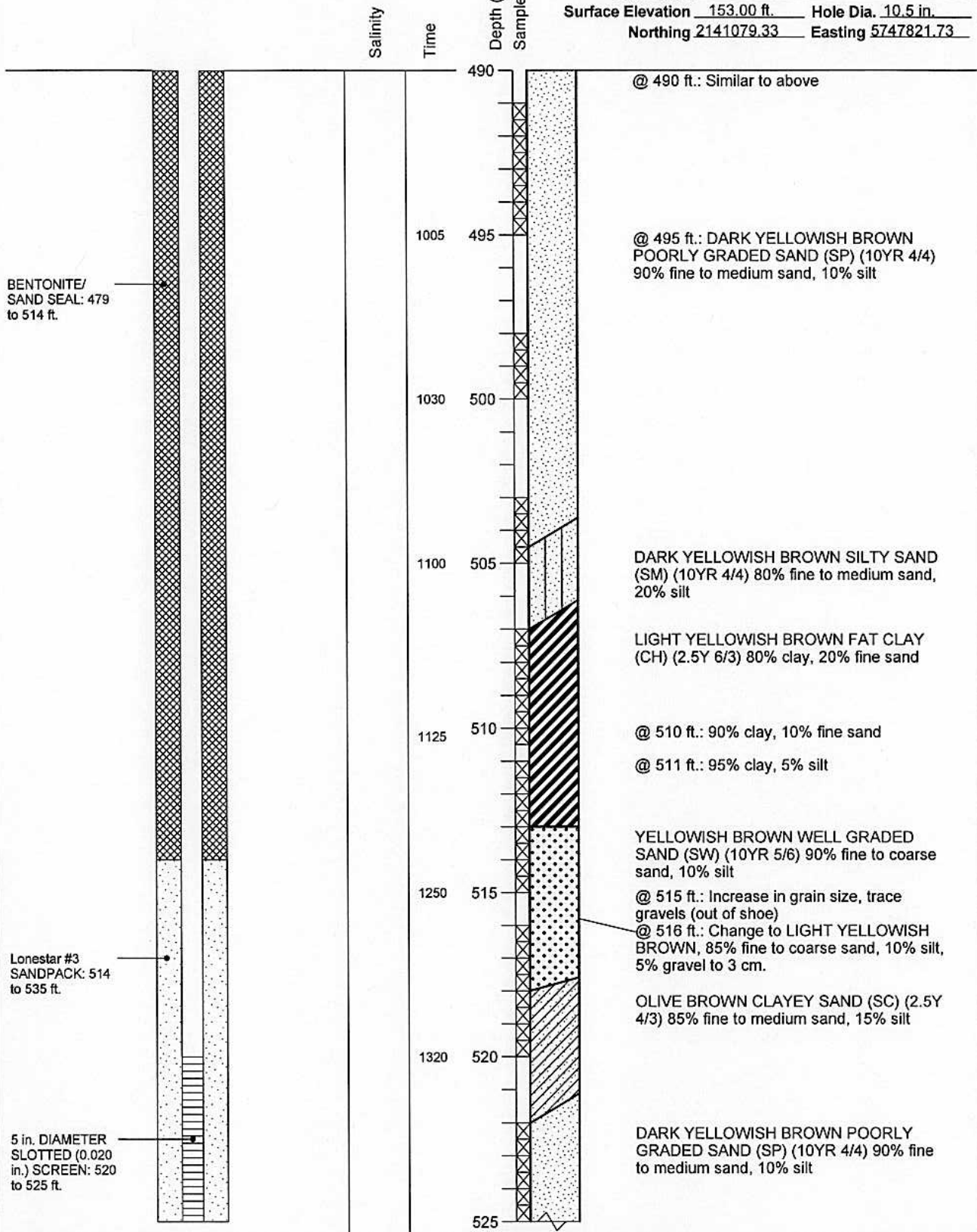
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BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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 OUCTP

Fort Ord, California

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JOB NUMBER
 55596 001701

APPROVED
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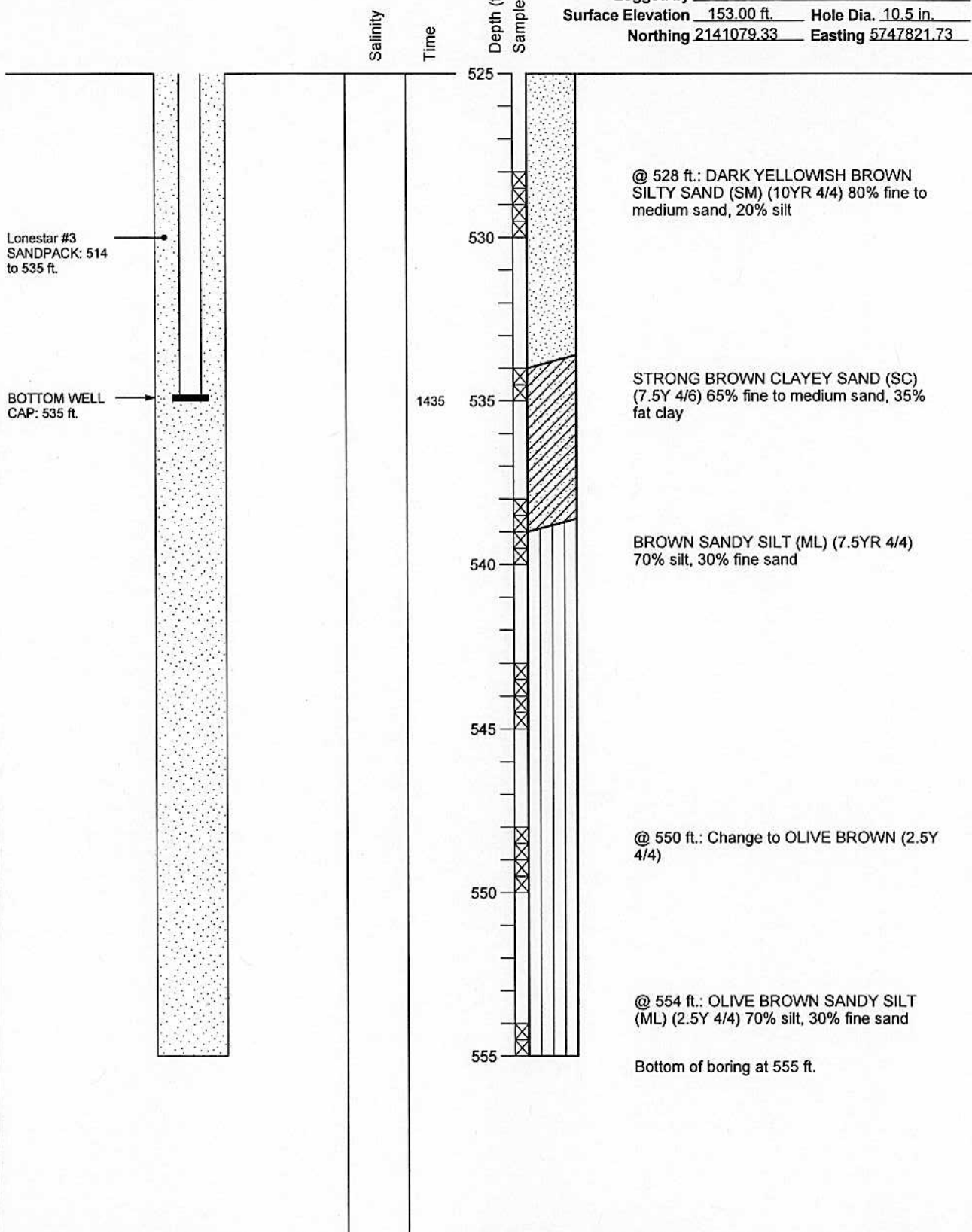
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REVISED DATE

A39

Completion Date 9/6/2001
 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 153.00 ft. Hole Dia. 10.5 in.
 Northing 2141079.33 Easting 5747821.73

BORING WELL OUCTP OUCTPV6.GPJ FTO OUCTP.GDT 11/24/04



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Fort Ord, California

PLATE

A39

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
TAC	55596 001701	<i>MDT/can</i>	11/04	

Top of PVC Casing
Elev. 113.48 ft.

GROUND SURFACE
Top of casing at
1.5 ft. above
ground level

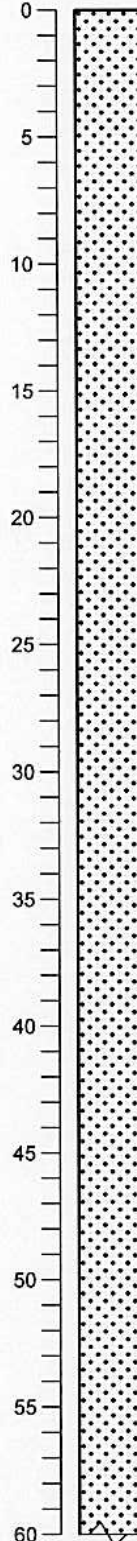
5 DIAMETER
SCHEDULE 40
PVC BLANK
CASING: 0 to 85
ft.

BENTONITE-
CEMENT SEAL: 0
to 44 ft.

BENTONITE-
PELLET SEAL: 44
to 47 ft.

Lonestar #2/12
SANDPACK: 47 to
85 ft.

Depth (ft.)
Sample



VERY DARK GRAYISH BROWN WELL
GRADED SAND (SW) (10YR 3/2) Loose,
moist, 95% fine to coarse sand, 5% silt

@ 4 ft.: Color change to DARK
YELLOWISH BROWN (10YR 4/6), dry

@ 10 ft.: Similar to above

@ 12 ft.: Color change to LIGHT
YELLOWISH BROWN (2.5Y 6/4), dry to
moist

@ 15 ft.: Similar to above

@ 20 ft.: Similar to above, decrease in
coarse sand

@ 25 ft.: Similar to above

@ 30 ft.: Color change to OLIVE YELLOW
(2.5Y 6/6)

@ 35 ft.: Similar to above

@ 40 ft.: Similar to above

@ 45 ft.: Similar to above

@ 50 ft.: Similar to above

@ 55 ft.: Similar to above, moist

Completion Date 11/7/2000

Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 112.65 ft. Hole Dia. 12 in.

Northing 2142128.262 Easting 5747436.099

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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JOB NUMBER
55596 001701

Well Construction Details and
Log of Boring MW-BW-32-A
OUCTP

Fort Ord, California

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DATE
11/04

REVISED DATE

A40

PLATE

Completion Date 11/7/2000

Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 112.65 ft. Hole Dia. 12 in.

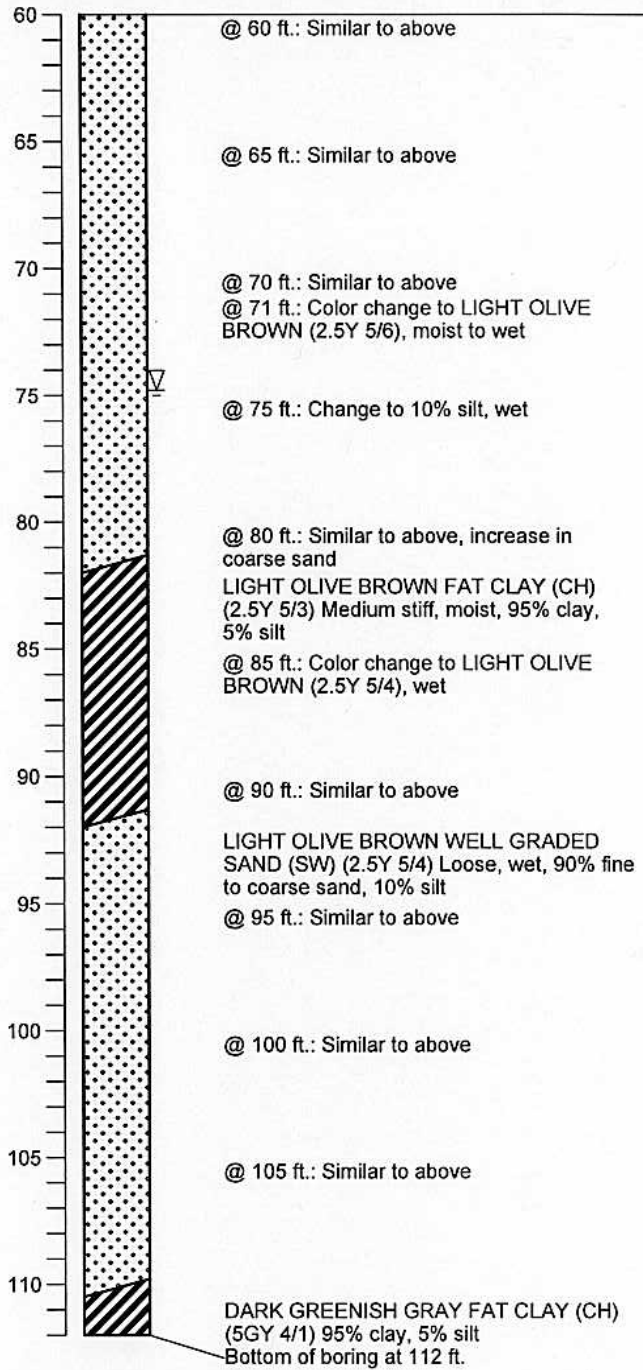
Northing 2142128.262 Easting 5747436.099

Depth (ft.)
Sample

5 DIA. SLOTTED
(0.02) SCREEN:
52 to 82 ft.

BOTTOM WELL
CAP: 83 ft.

BOTTOM OF
BOREHOLE: 112
ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-32-A
OUCTP

Fort Ord, California

PLATE

A40

DRAWN
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JOB NUMBER
55596 001701

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DATE
11/04

REVISED DATE

Top of PVC Casing
Elev. 153.85 ft.
CHRISTY
BOX

GROUND SURFACE

BENTONITE-
CEMENT SEAL: 0
to 170 ft.

Salinity

Time

8/27/01 1435

1445

1500

Depth (ft.)
Sample

Completion Date 8/27/2001

Drilling Method ARCH/mud rotary

Logged by D. Browne

Surface Elevation 153.50 ft.

Hole Dia. 10.5 in.

Northing 2140546.91

Easting 5748218.35

OLIVE GRAY SILTY SAND (SM) (5Y 5/2)
Loose, dry, 80% fine to coarse sand, 20% silt

@ 5 ft.: Similar to above

@ 10 ft.: Change to LIGHT OLIVE GRAY
SILTY SAND (5Y 6/7), 85% fine to coarse
sand, 15% silt

LIGHT YELLOWISH BROWN WELL
GRADED SAND (SW) (10YR 6/4) Loose,
dry, 90% fine to coarse sand, 10% silt

@ 15 ft.: Similar to above

@ 20 ft.: Similar to above

LIGHT YELLOWISH BROWN POORLY
GRADED SAND (SP) (10YR 6/4) Loose,
dry, 95% fine to medium sand, 5% silt
YELLOWISH BROWN WELL GRADED
SAND (SW) (10YR 5/4) Loose, dry, 95%
fine to coarse sand, 5% silt

@ 27 ft.: Change to DARK YELLOWISH
BROWN (10YR 4/4)

@ 30 ft.: Change to BROWNISH YELLOW
(10YR 6/6) Decrease in coarse sand

@ 35 ft.: Similar to above

@ 40 ft.: Similar to above

@ 45 ft.: Change to YELLOWISH BROWN
(10YR 5/4) Moist, 90% fine to coarse sand,
10% silt

BORING WELL OUCTP OUCTPV6.GPJ FTO OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-33-180
OUCTP

PLATE

Fort Ord, California

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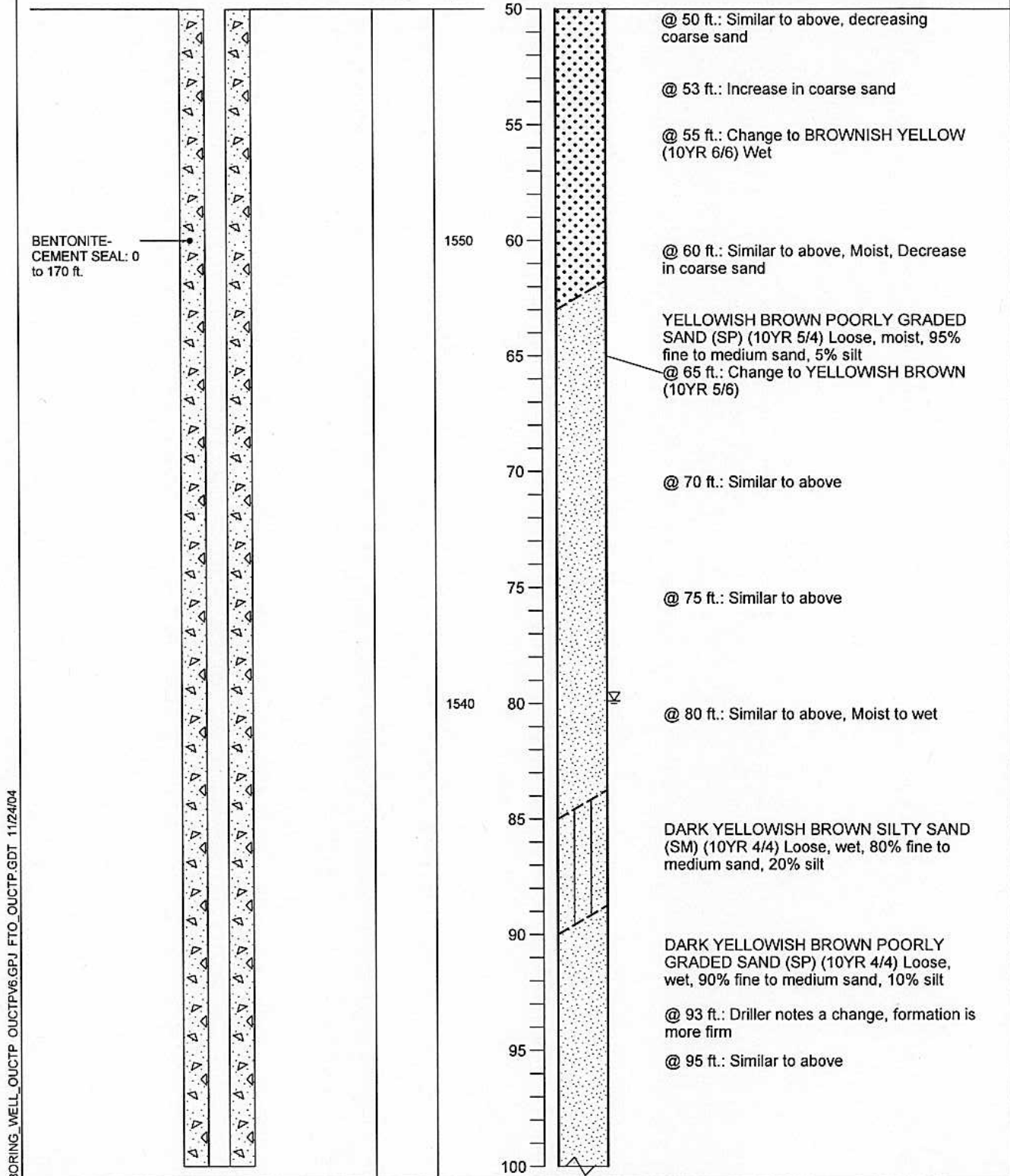
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DATE
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REVISED DATE

A41

Completion Date 8/27/2001Drilling Method ARCH/mud rotaryLogged by D. BrowneSurface Elevation 153.50 ft. Hole Dia. 10.5 in.Northing 2140546.91 Easting 5748218.35

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
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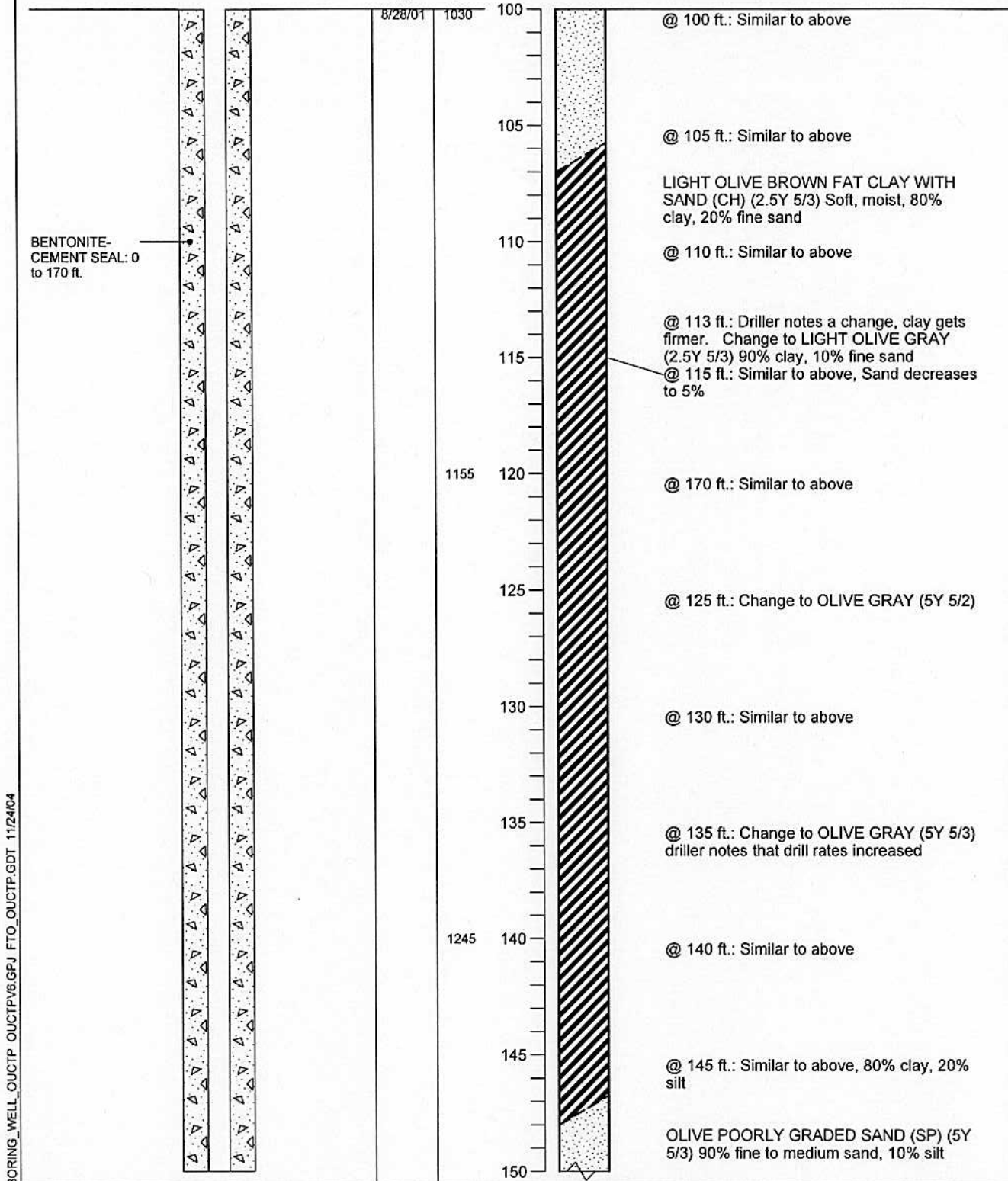
Fort Ord, California

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55596 001701APPROVED
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11/04

REVISED DATE

A41

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OUCTP

Fort Ord, California

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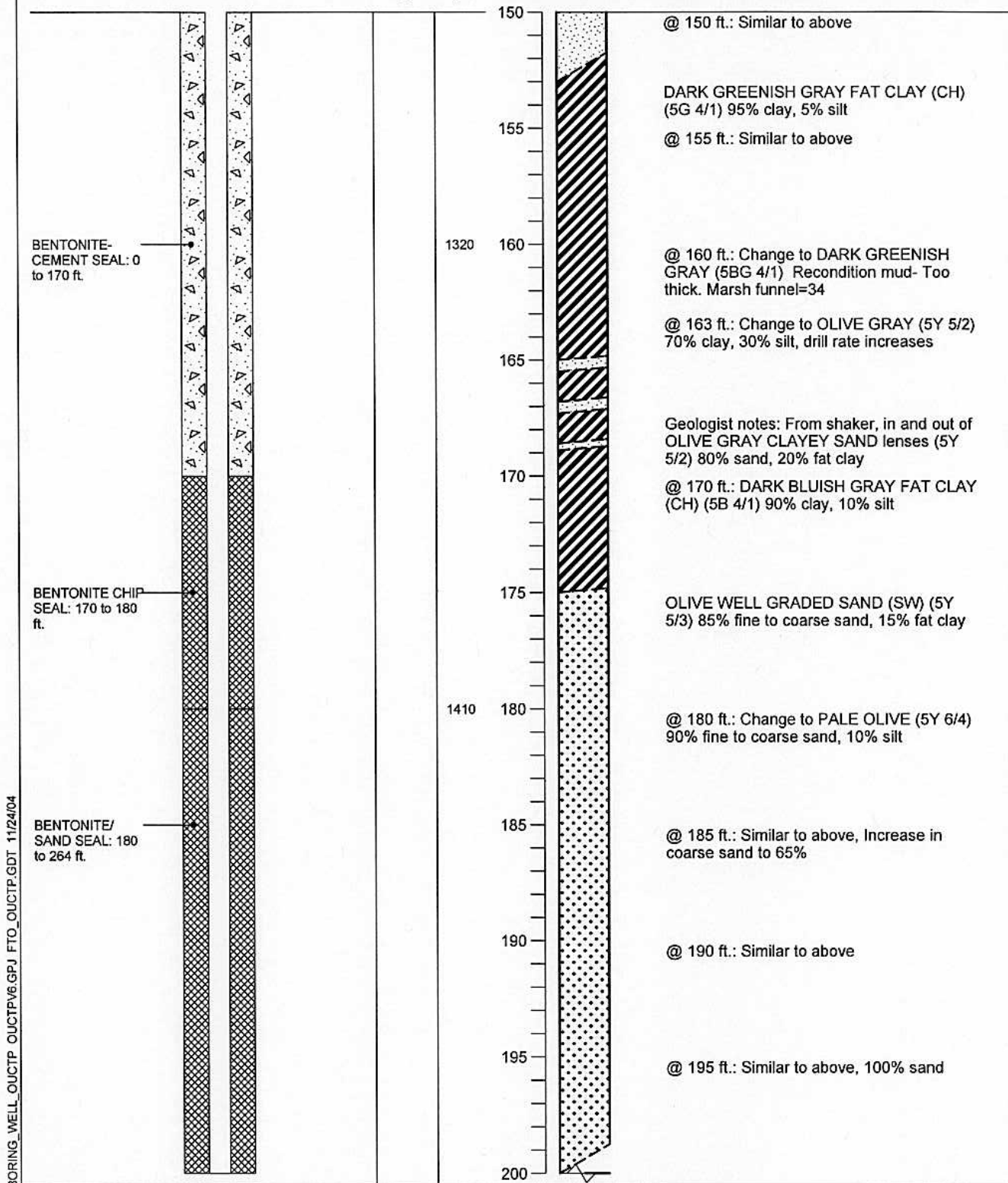
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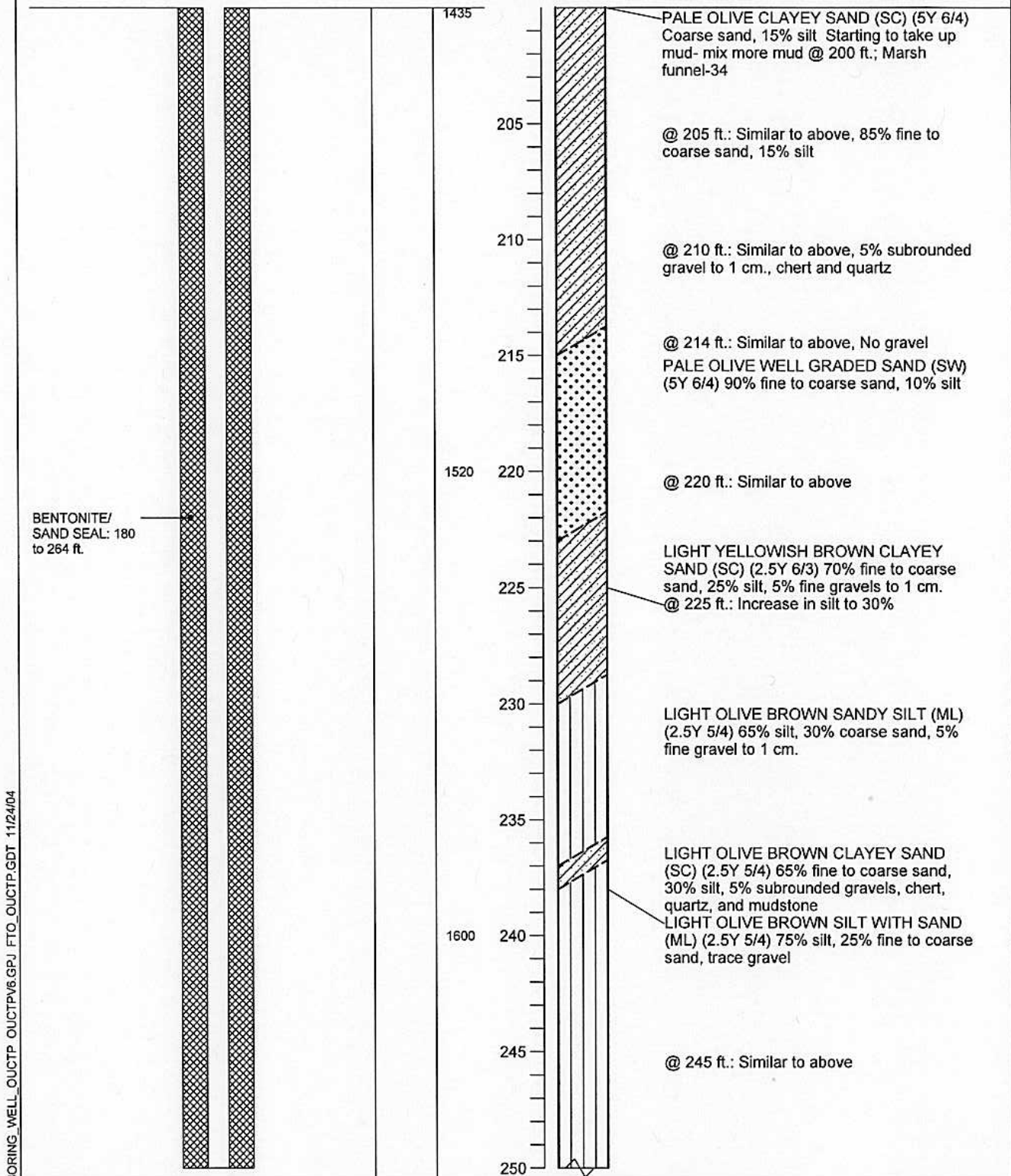
Completion Date 8/27/2001

Drilling Method ARCH/mud rotary

Logged by D. Browne

Surface Elevation 153.50 ft. Hole Dia. 10.5 in.

Northing 2140546.91 Easting 5748218.35



**Well Construction Details and
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OUCTP

PLATE



MACTEC

Fort Ord, California

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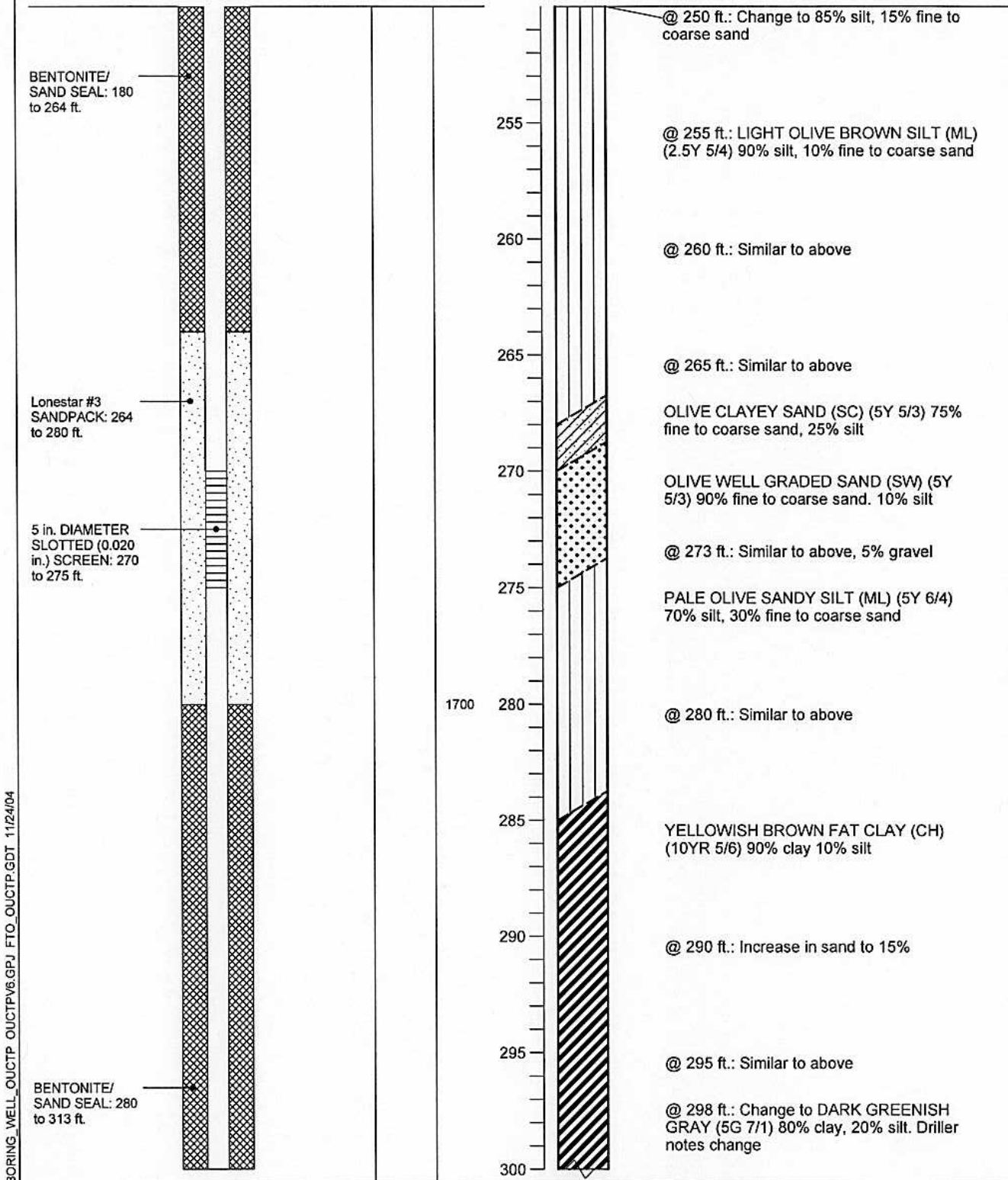
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DATE
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REVISED DATE

A41

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BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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PLATE

A41

Fort Ord, California

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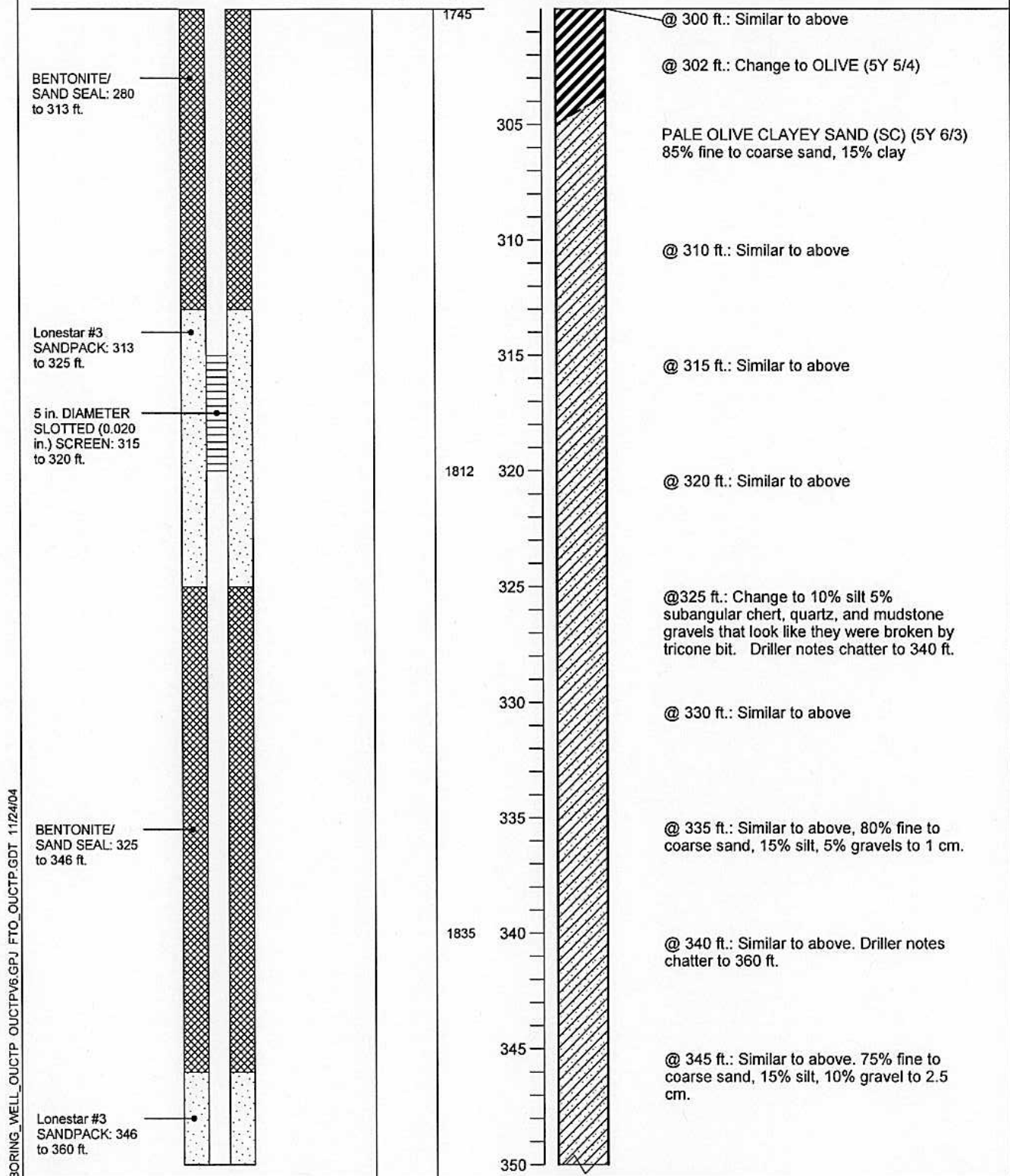
Completion Date 8/27/2001

Drilling Method ARCH/mud rotary

Logged by D. Browne

Surface Elevation 153.50 ft. Hole Dia. 10.5 in.

Northing 2140546.91 Easting 5748218.35



MACTEC

**Well Construction Details and
Log of Boring MW-BW-33-180**
OUCTP

Fort Ord, California

DRAWN
TAC

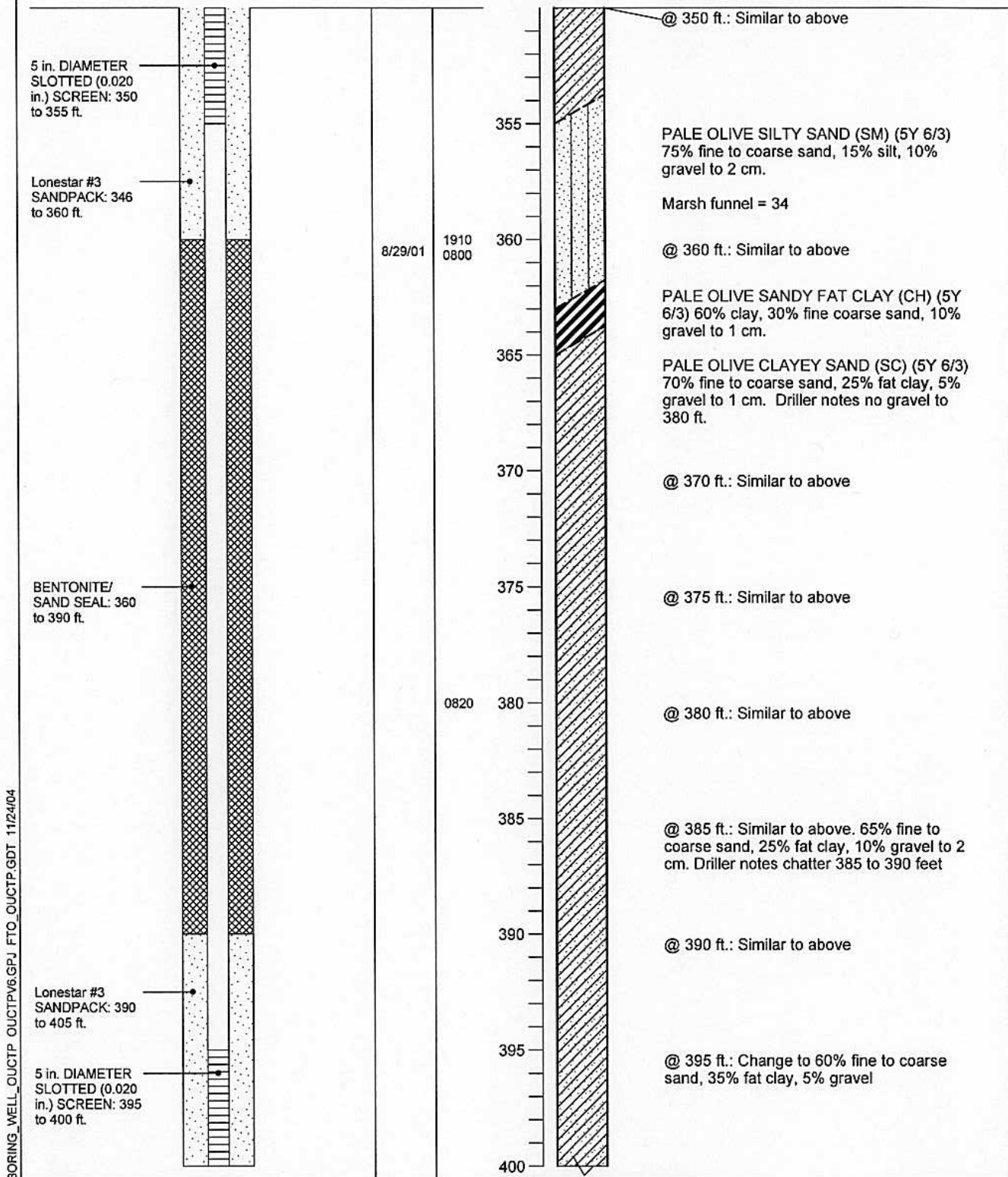
JOB NUMBER
55596 001701

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MDT / cur

DATE
11/04

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A41

Completion Date 8/27/2001Drilling Method ARCH/mud rotaryLogged by D. BrowneSurface Elevation 153.50 ft. Hole Dia. 10.5 in.Northing 2140546.91 Easting 5748218.35

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-33-180
OUCTP

PLATE

Fort Ord, California

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55596 001701

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DATE
11/04

REVISED DATE

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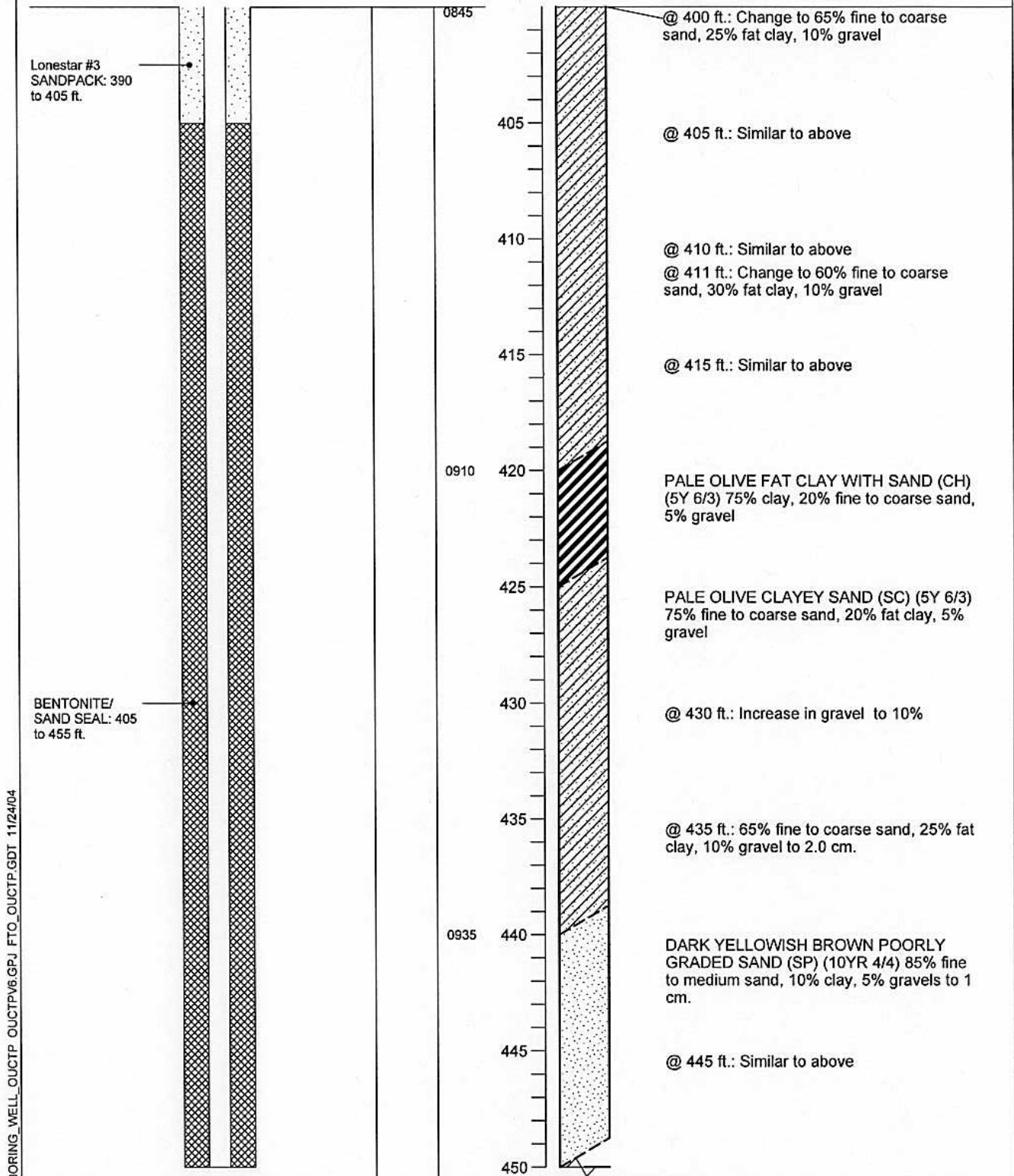
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Drilling Method ARCH/mud rotary

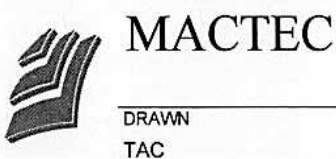
Logged by D. Browne

Surface Elevation 153.50 ft. Hole Dia. 10.5 in.

Northing 2140546.91 Easting 5748218.35



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



Well Construction Details and Log of Boring MW-BW-33-180
OUCTP

PLATE

A41

Fort Ord, California

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
TAC	55596 001701	<i>MAT/cun</i>	11/04	

Completion Date 8/27/2001

Drilling Method ARCH/mud rotary

Logged by D. Browne

Surface Elevation 153.50 ft. Hole Dia. 10.5 in.

Northing 2140546.91 Easting 5748218.35

Salinity

Time

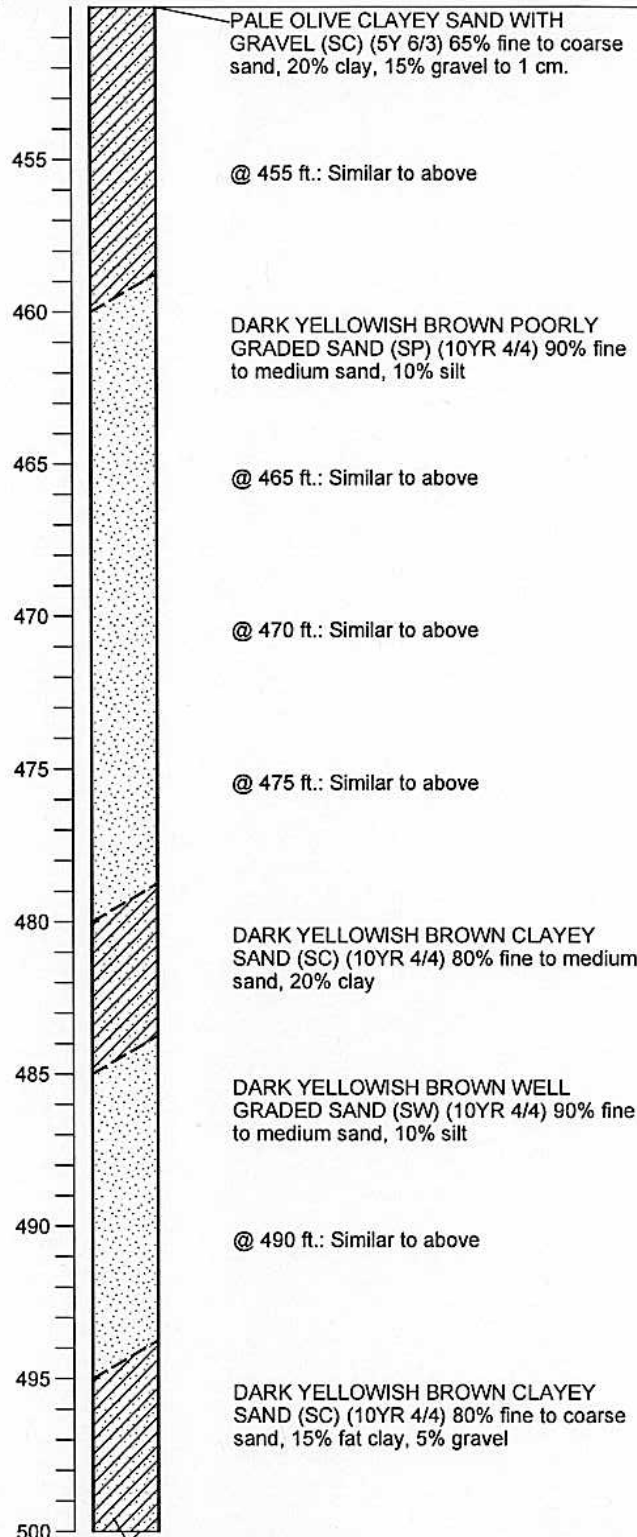
Depth (ft.)
Sample

BENTONITE/
SAND SEAL: 405
to 455 ft.

Lonestar #3
SANDPACK: 455
to 470 ft.

5 in. DIAMETER
SLOTTED (0.020
in.) SCREEN: 460
to 465 ft.

BENTONITE/
SAND SEAL: 470
to 522 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-33-180
OUCTP

PLATE

Fort Ord, California

A41

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55596 001701

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11/04

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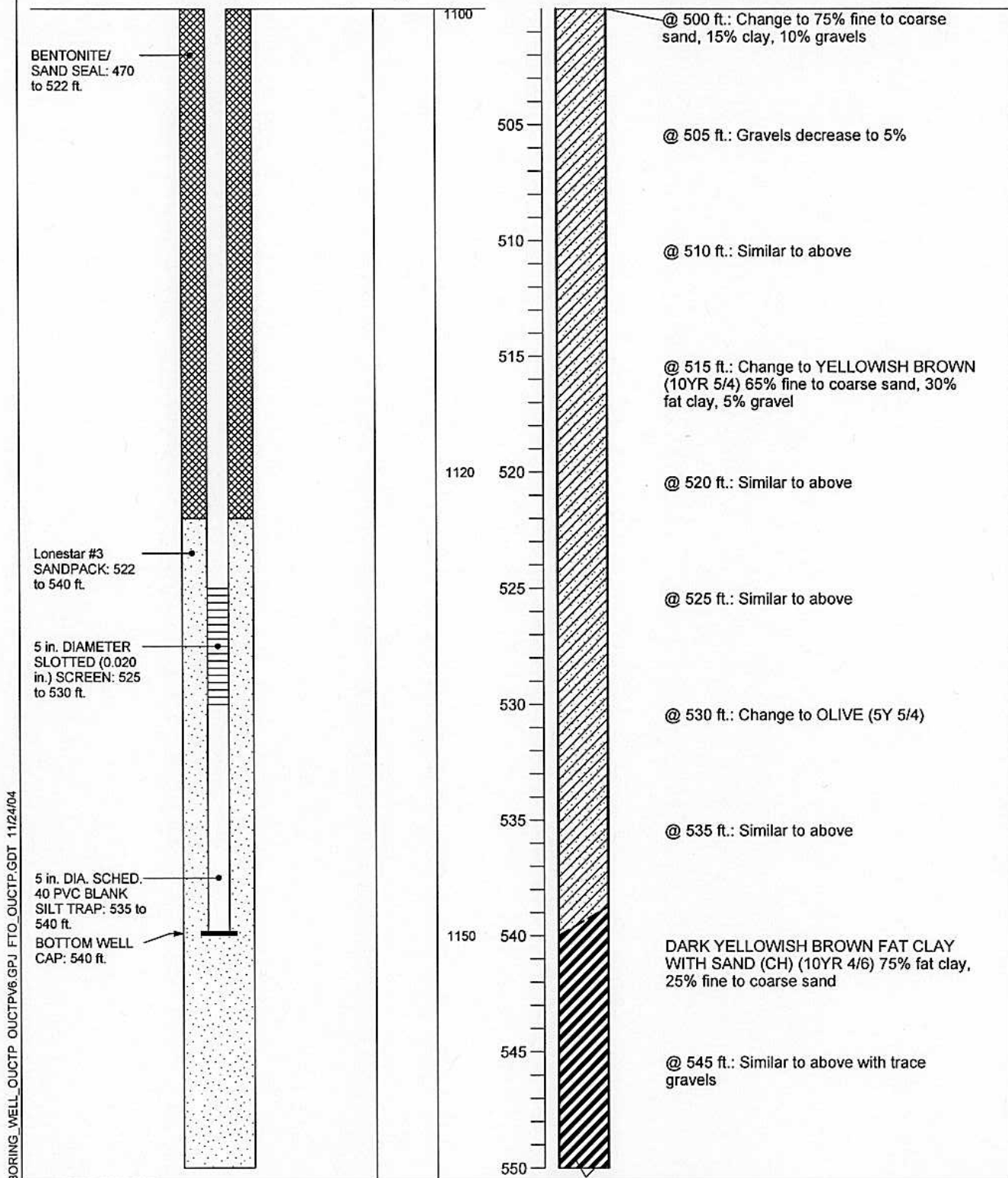
Completion Date 8/27/2001

Drilling Method ARCH/mud rotary

Logged by D. Browne

Surface Elevation 153.50 ft. Hole Dia. 10.5 in.

Northing 2140546.91 Easting 5748218.35



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Well Construction Details and Log of Boring MW-BW-33-180
QUCTP

PLATE

Fort Ord, California

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JOB NUMBER
55596 001701

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REVISED DATE

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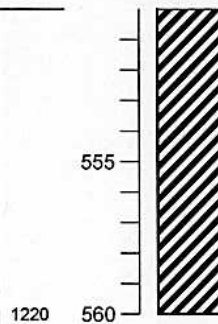
BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Completion Date 8/27/2001
Drilling Method ARCH/mud rotary
Logged by D. Browne
Surface Elevation 153.50 ft. Hole Dia. 10.5 in.
Northing 2140546.91 Easting 5748218.35

Salinity

Time

Depth (ft.)
Sample



@ 550 ft.: Similar to above

@ 555 ft.: Similar to above

@ 560 ft.: Similar to above. Bottom of boring at 560 ft.

Bottom of well failed during development; grout to 485 ft. below ground surface.



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Well Construction Details and
Log of Boring MW-BW-33-180
OUCTP

Fort Ord, California

PLATE

A41

DRAWN
TAC

JOB NUMBER
55596 001701

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MDT / cur

DATE
11/04

REVISED DATE

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Top of PVC Casing
Elev. 126.52 ft.
CHRISTY
BOX

GROUND SURFACE
Top of casing at
0.5 ft. below
ground level

5 DIAMETER
SCHEDULE 40
PVC BLANK
CASING: 0 to 70
ft.

BENTONITE-
CEMENT SEAL: 0
to 62 ft.

Completion Date 11/3/2000

Drilling Method Hollow Stem Auger

Logged by _____

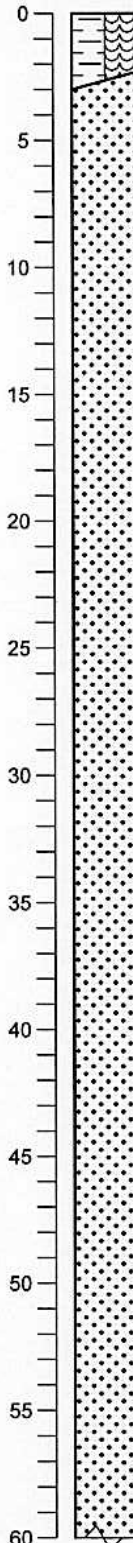
Surface Elevation 127.24 ft.

Hole Dia. 12 in.

Northing 2141538.57

Easting 5745863.589

Depth (ft.)
Sample



YELLOWISH BROWN SANDY ORGANIC
SOIL (OL/OH) (10YR 5/4) Loose, dry, 70%
sand, 30% soil

@ 0.5 ft.: Change to DARK YELLOWISH
BROWN (10YR 4/4)

LIGHT YELLOWISH BROWN WELL
GRADED SAND (SW) (10YR 6/4) Loose,
dry, 95% fine to medium sand, 5% silt,

@ 8 ft.: Change to BROWNISH YELLOW
(10YR 6/6)

@ 10 ft.: Similar to above

@ 13 ft.: Similar to above

@ 18 ft.: Similar to above

@ 23 ft.: Similar to above, increase in
coarse sand

@ 30 ft.: Similar to above

@ 35 ft.: Similar to above, 95% fine to
coarse sand, 15% silt

@ 41 ft.: Similar to above, decrease in
coarse sand

@ 47 ft.: Similar to above

@ 51 ft.: Similar to above, 95% fine to
medium sand, 5% silt

@ 55 ft.: Similar to above, moist

@ 57 ft.: Driller notes tighter drilling,
bogging down



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Well Construction Details and
Log of Boring MW-BW-33-A
OUCTP

PLATE

Fort Ord, California

DRAWN
PCB

JOB NUMBER
55596 001701

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MDT / cm

DATE
11/04

REVISED DATE

A42

Completion Date 11/3/2000

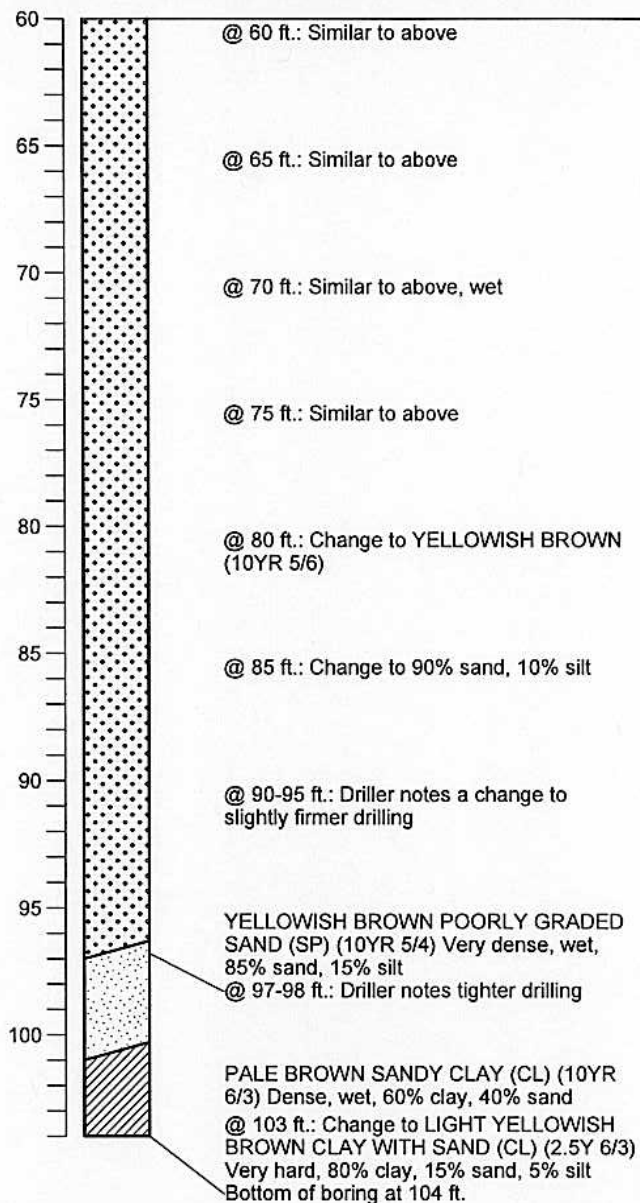
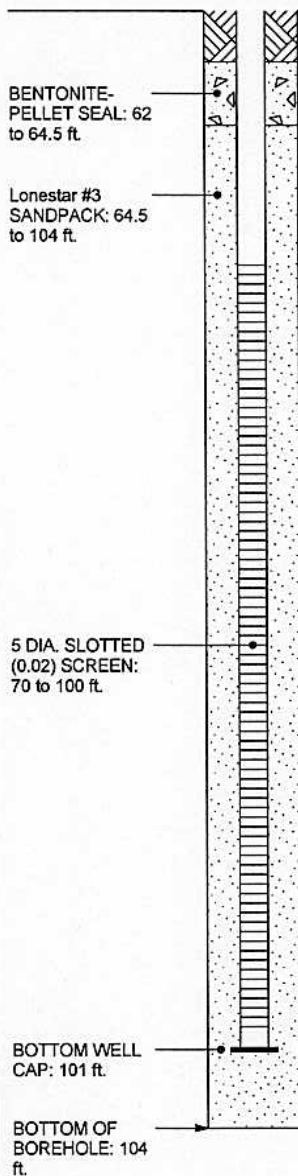
Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 127.24 ft. Hole Dia. 12 in.

Northing 2141538.57 Easting 5745863.589

Depth (ft.)
Sample



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-33-A

OUCTP

Fort Ord, California

PLATE



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DRAWN
PCB

JOB NUMBER
55596 001701

APPROVED

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DATE
11/04

REVISED DATE

A42

Top of PVC Casing
Elev. 127.61 ft.
CHRISTY
BOX

GROUND SURFACE

GROUT SEAL: 0
to 117 ft.

Completion Date 10/2/2001

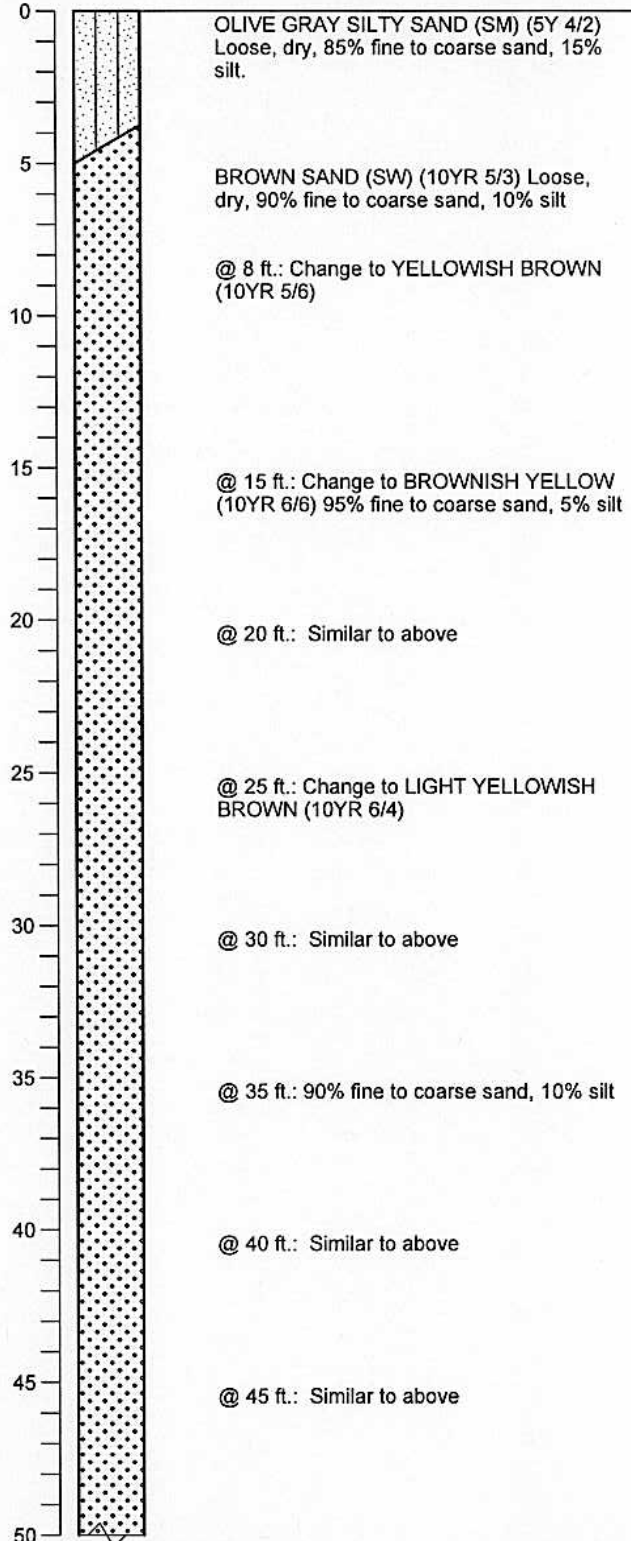
Drilling Method ARCH/mud rotary

Logged by D. Browne

Surface Elevation 127.50 ft. Hole Dia. 10.5 in.

Northing 2140709.06 Easting 5750371.95

Depth (ft.)
Sample



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-34-180
OUCTP

PLATE

Fort Ord, California

DRAWN
PCB

JOB NUMBER
55596 001701

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DATE
11/04

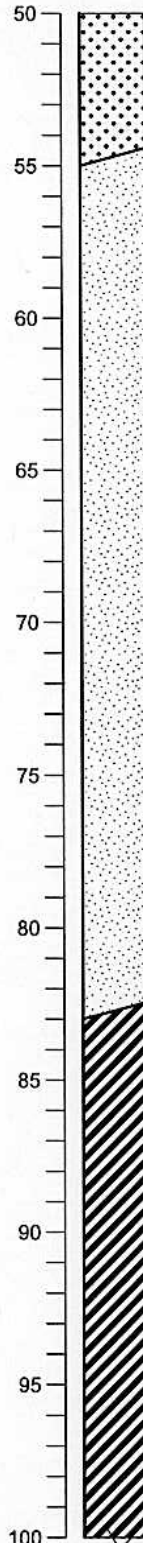
REVISED DATE

A43

Completion Date 10/2/2001
 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 127.50 ft. Hole Dia. 10.5 in.
 Northing 2140709.06 Easting 5750371.95

Depth (ft.)
 Sample

GROUT SEAL: 0
 to 117 ft.



LIGHT YELLOWISH BROWN POORLY
 GRADED SAND (SP) (10YR 6/4) 95% fine
 to medium sand, 5% silt

@ 60 ft.: Similar to above

@ 65 ft.: Similar to above

@ 70 ft.: Similar to above

@ 75 ft.: Change to 90% fine to medium
 sand, 10% silt

@ 80 ft.: Similar to above

PALE OLIVE FAT CLAY (CH) (5Y 6/4) 90%
 clay, 10% silt

@ 90 ft.: Similar to above

@ 95 ft.: Similar to above

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MW-BW-34-180
 OUCTP

PLATE

A43

Fort Ord, California

DRAWN
 PCB

JOB NUMBER
 55596 001701

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DATE
 11/04

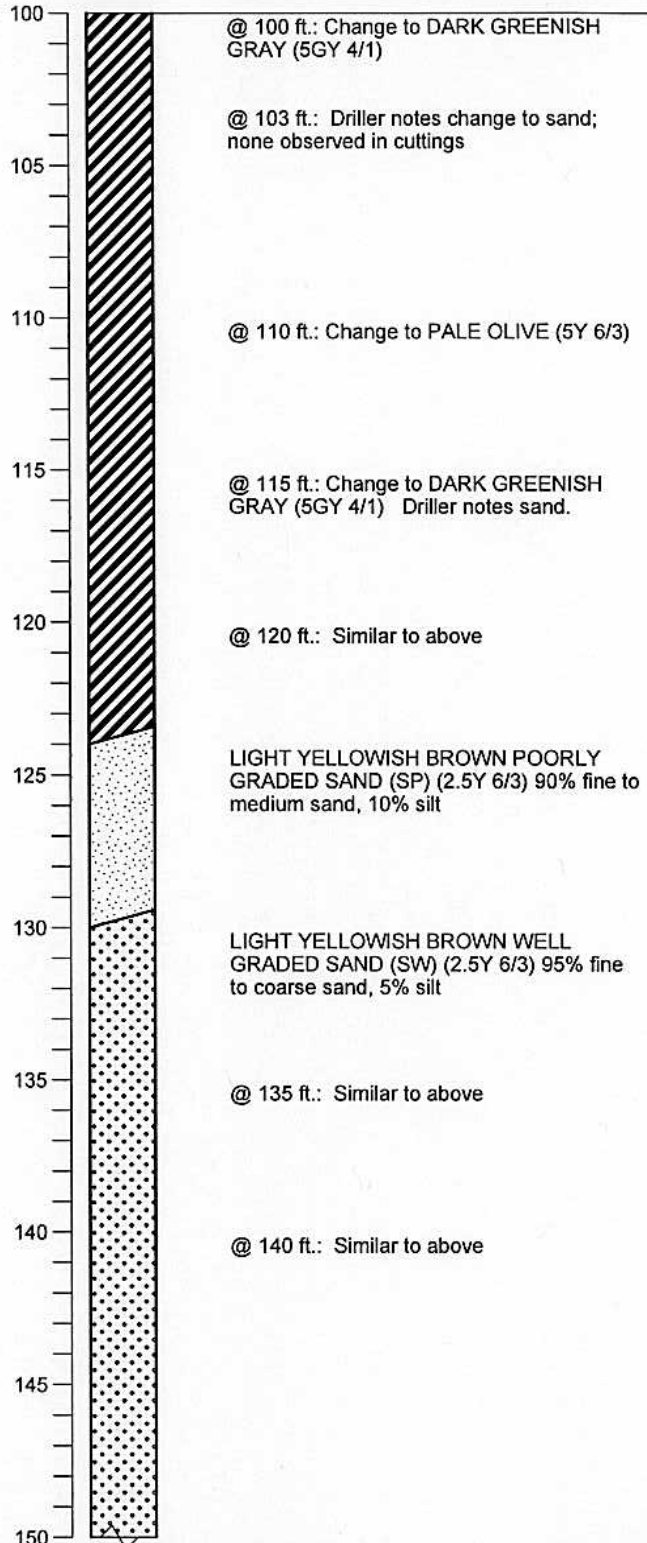
REVISED DATE

Completion Date 10/2/2001
 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 127.50 ft. Hole Dia. 10.5 in.
 Northing 2140709.06 Easting 5750371.95

Depth (ft.)
 Sample

GROUT SEAL: 0
 to 117 ft.

BENTONITE/
 SAND SEAL: 117
 to 285 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MW-BW-34-180
 OUCTP

PLATE

Fort Ord, California

DRAWN
 PCB

JOB NUMBER
 55596 001701

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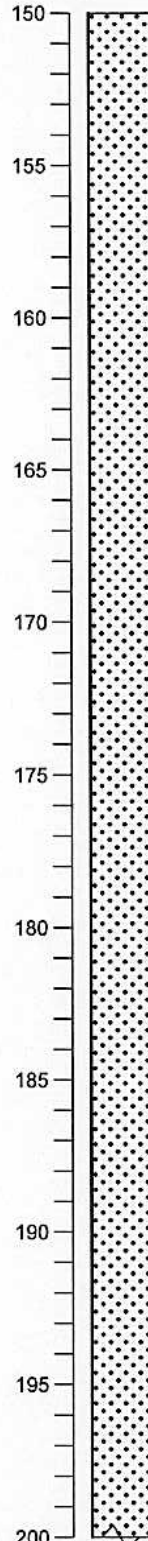
REVISED DATE

A43

Completion Date 10/2/2001
 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 127.50 ft. Hole Dia. 10.5 in.
 Northing 2140709.06 Easting 5750371.95

Depth (ft.)
 Sample

BENTONITE/
 SAND SEAL: 117
 to 285 ft.



@ 150 ft.: Similar to above

LIGHT YELLOWISH BROWN SAND (SW)
 (2.5Y 6/3) 95% fine to coarse sand, 5% silt

@ 160 ft.: Similar to above

@ 170 ft.: Similar to above

@ 180 ft.: Similar to above

@ 190 ft.: Similar to above

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MW-BW-34-180
 OUCTP

PLATE

Fort Ord, California

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JOB NUMBER
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DATE
 11/04

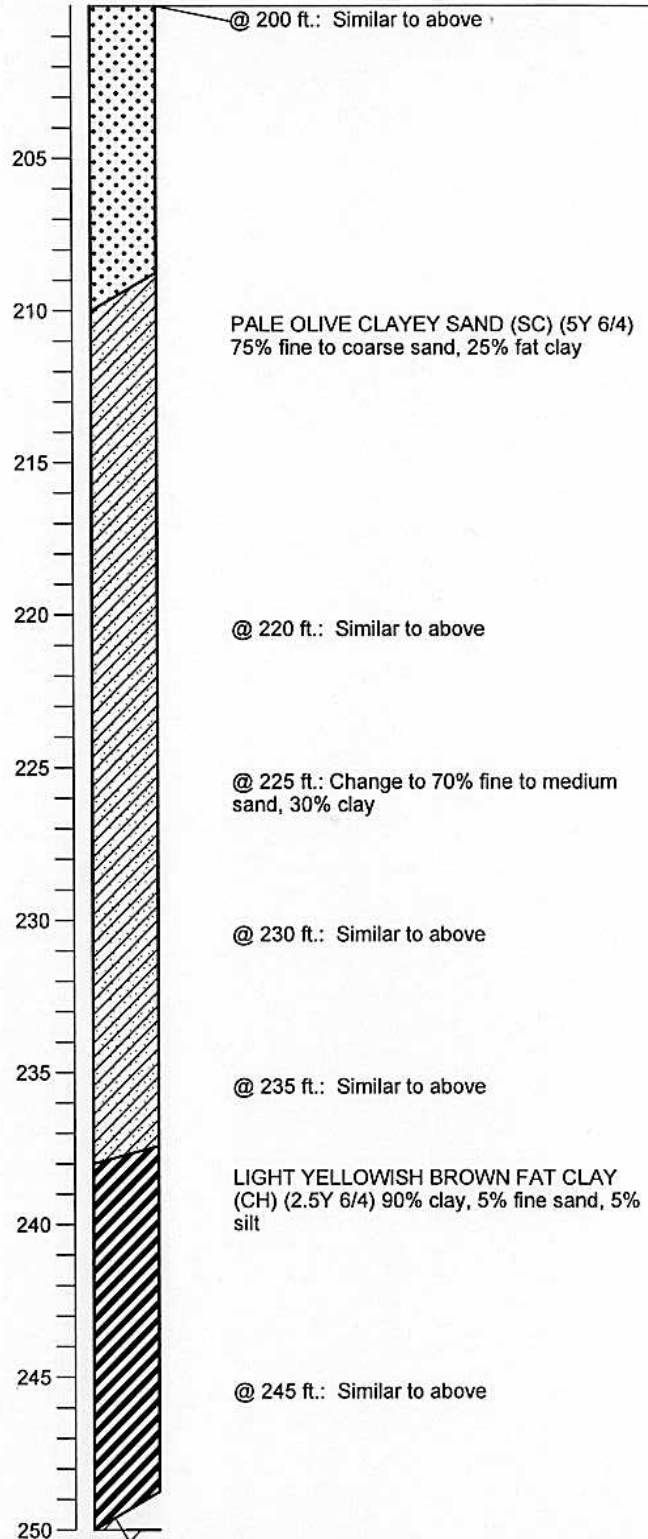
REVISED DATE

A43

Completion Date 10/2/2001
 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 127.50 ft. Hole Dia. 10.5 in.
 Northing 2140709.06 Easting 5750371.95

Depth (ft.)
 Sample

BENTONITE/
 SAND SEAL: 117
 to 285 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MW-BW-34-180
 OUCTP

Fort Ord, California

PLATE

A43

DRAWN
 PCB

JOB NUMBER
 55596 001701

APPROVED

MDT / cm

DATE
 11/04

REVISED DATE

Completion Date 10/2/2001

Drilling Method ARCH/mud rotary

Logged by D. Browne

Surface Elevation 127.50 ft. Hole Dia. 10.5 in.

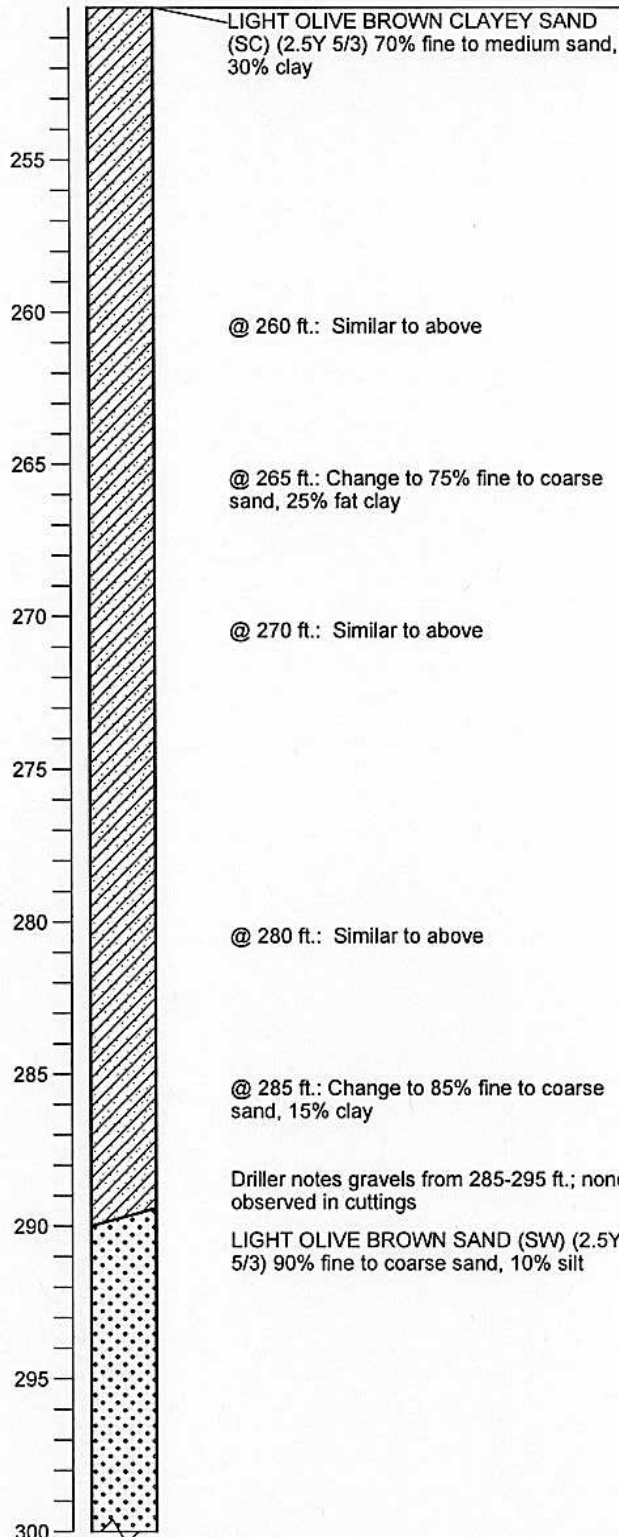
Northing 2140709.06 Easting 5750371.95

Depth (ft.)
Sample

BENTONITE/
SAND SEAL: 117
to 285 ft.

LONESTAR #3
SAND PACK: 285
to 302 ft.

5 in. DIAMETER
SLOTTED (0.020
in.) SCREEN: 290
to 295 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-34-180
OUCTP

PLATE

Fort Ord, California

DRAWN
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JOB NUMBER
55596 001701

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DATE
11/04

REVISED DATE

A43

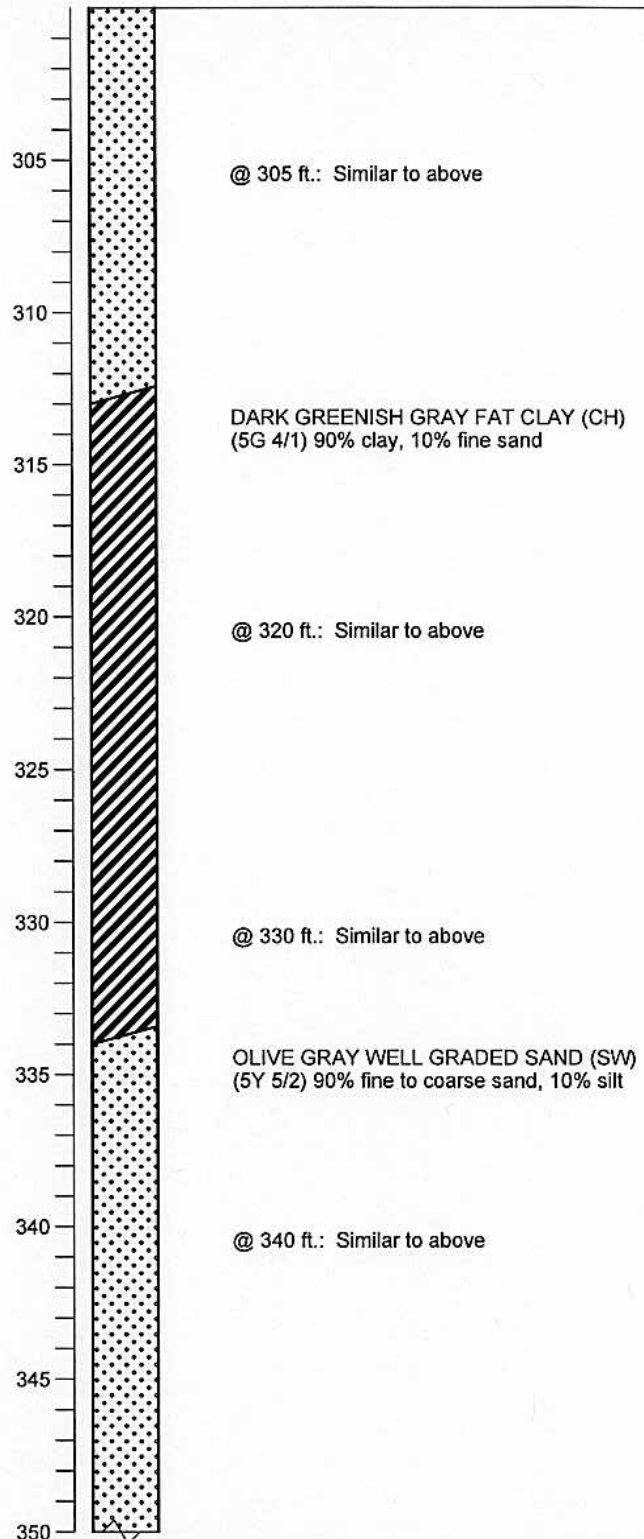
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 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 127.50 ft. Hole Dia. 10.5 in.
 Northing 2140709.06 Easting 5750371.95

Depth (ft.)
 Sample

LONESTAR #3
 SAND PACK: 285
 to 302 ft.

BENTONITE/
 SAND SEAL: 302
 to 347 ft.

LONESTAR #3
 SAND PACK: 347
 to 369 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MW-BW-34-180
 OUCTP

PLATE

A43

Fort Ord, California

DRAWN
 PCB

JOB NUMBER
 55596 001701

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DATE
 11/04

REVISED DATE

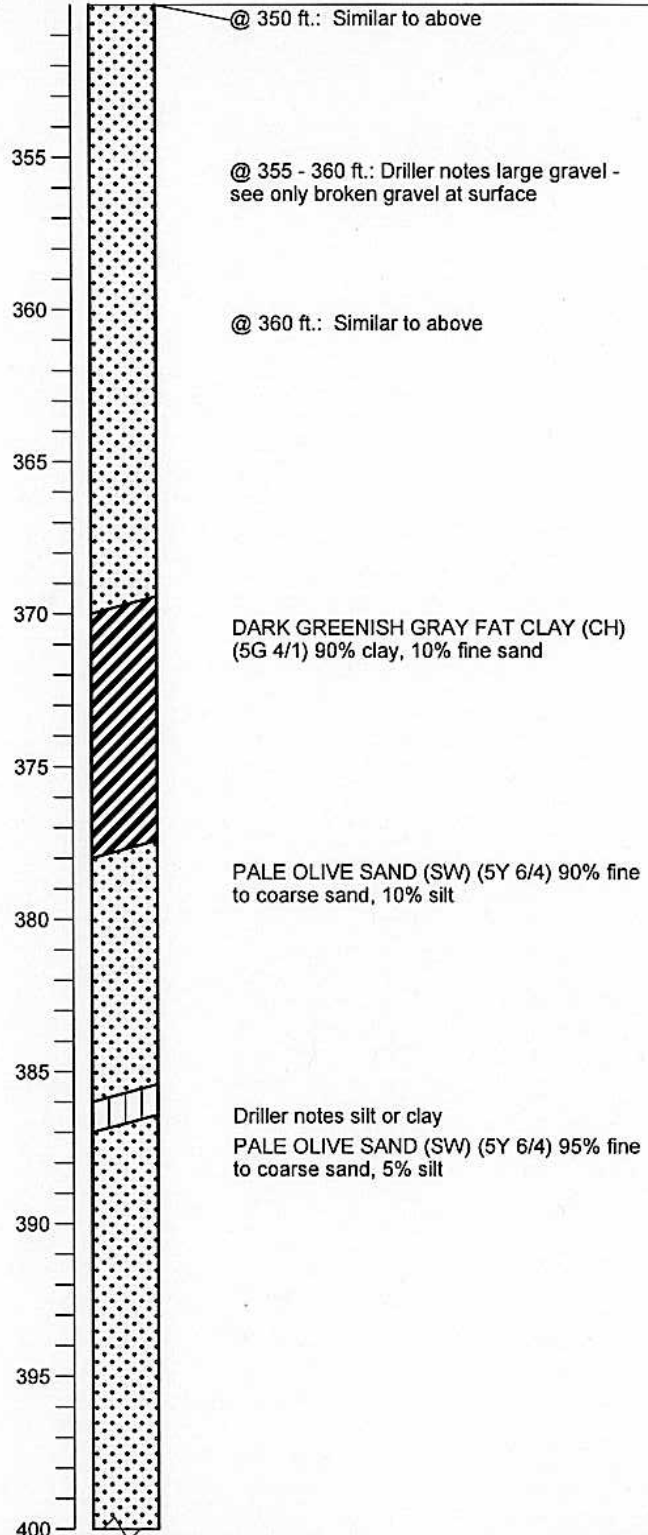
Completion Date 10/2/2001
 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 127.50 ft. Hole Dia. 10.5 in.
 Northing 2140709.06 Easting 5750371.95

Depth (ft.)
 Sample

LONESTAR #3
 SAND PACK: 347
 to 369 ft.

5 in. DIAMETER
 SLOTTED (0.020
 in.) SCREEN: 355
 to 360 ft.

BENTONITE/
 SAND SEAL: 369
 to 415 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MW-BW-34-180
 OUCTP

Fort Ord, California

PLATE

A43

DRAWN
 PCB

JOB NUMBER
 55596 001701

APPROVED

MDT / can

DATE
 11/04

REVISED DATE

Completion Date 10/2/2001
 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 127.50 ft. Hole Dia. 10.5 in.
 Northing 2140709.06 Easting 5750371.95

Depth (ft.)
 Sample

BENTONITE/
 SAND SEAL: 369
 to 415 ft.

LONESTAR #3
 SAND PACK: 415
 to 427 ft.

5 in. DIAMETER
 SLOTTED (0.020
 in.) SCREEN: 420
 to 425 ft.

BENTONITE/
 SAND SEAL: 427
 to 483 ft.

405

@ 405 ft.: Similar to above

410

415

@ 415 ft.: Similar to above

420

425

Driller notes change to silt or clay; not
 observed in cuttings

PALE OLIVE WELL GRADED SAND (SW)
 (5Y 6/4) 95% fine to coarse sand, 5% silt

430

435

@ 435 ft.: Change to 90% fine to coarse
 sand, 10% silt

440

PALE OLIVE CLAYEY SAND (SC) (5Y 6/3)
 60% fine to coarse sand, 40% fat clay

445

450

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-34-180
 OUCTP

PLATE

Fort Ord, California

A43

DRAWN
 PCB

JOB NUMBER
 55596 001701

APPROVED

MDT/cmr

DATE
 11/04

REVISED DATE

Completion Date 10/2/2001
 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 127.50 ft. Hole Dia. 10.5 in.
 Northing 2140709.06 Easting 5750371.95

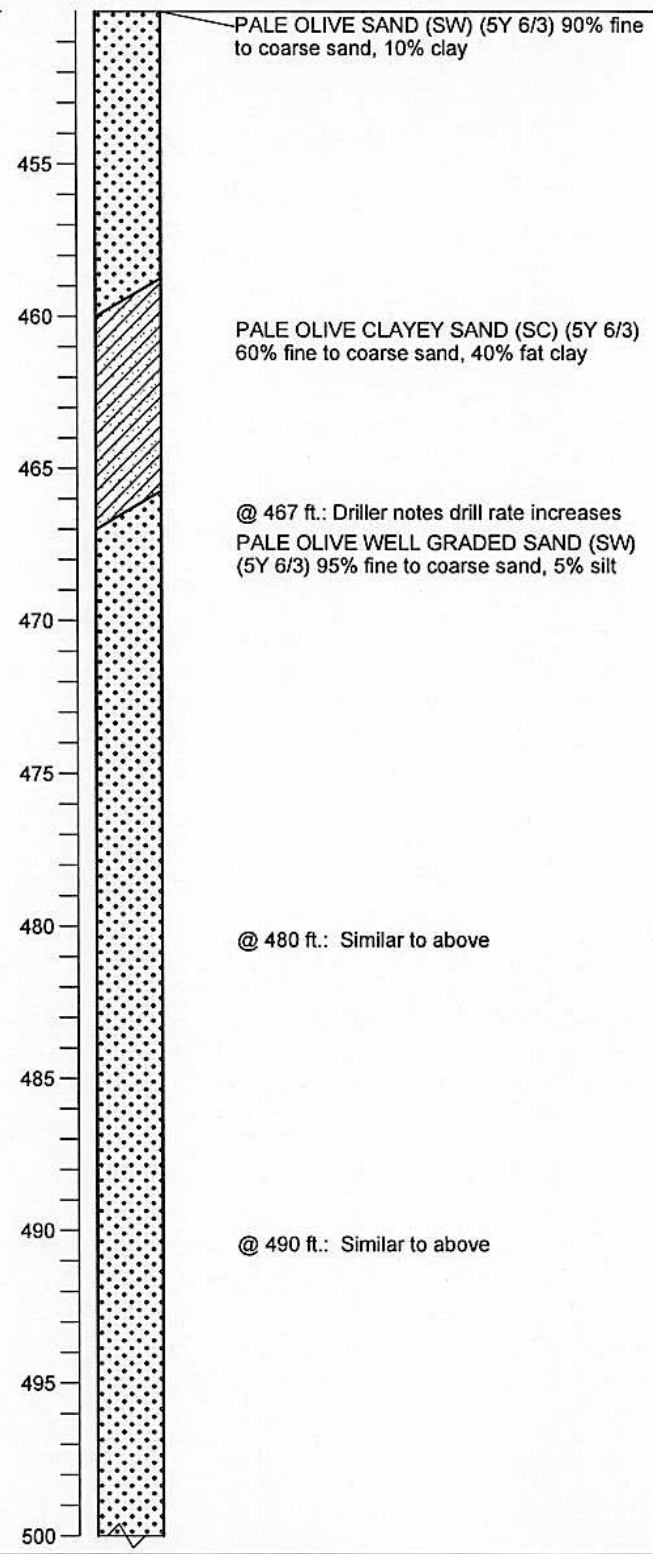
Depth (ft.)
 Sample

BENTONITE/
 SAND SEAL: 427
 to 483 ft.

LONESTAR #3
 SAND PACK: 483
 to 497 ft.

5 in. DIAMETER
 SLOTTED (0.020
 in.) SCREEN: 490
 to 495 ft.

BENTONITE/
 SAND SEAL: 497
 to 530 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MW-BW-34-180
 OUCTP

PLATE

A43

Fort Ord, California

DRAWN
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JOB NUMBER
 55596 001701

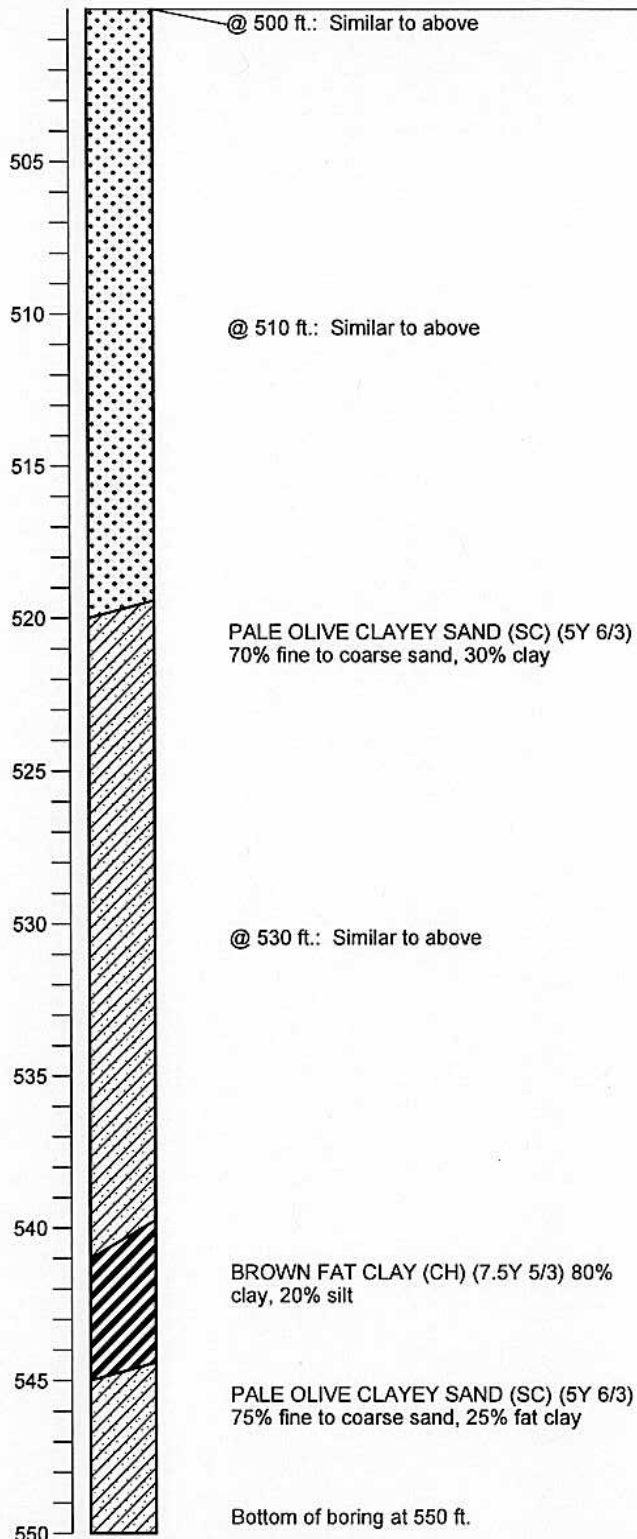
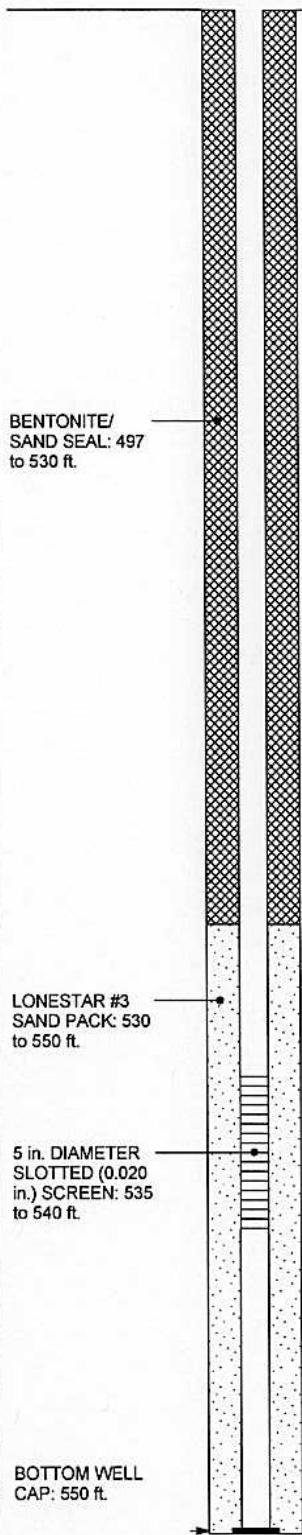
APPROVED
MDT / cm

DATE
 11/04

REVISED DATE

Completion Date 10/2/2001
 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 127.50 ft. Hole Dia. 10.5 in.
 Northing 2140709.06 Easting 5750371.95

Depth (ft.)
 Sample



BORING WELL OUCTP OUCTPV8.GPJ FTO OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-34-180
 OUCTP

PLATE

A43

Fort Ord, California

DRAWN
PCB

JOB NUMBER
55596 001701

APPROVED
MDT/cw

DATE
11/04

REVISED DATE

Top of PVC Casing
Elev. 128.60 ft.
CHRISTY
BOX

GROUND SURFACE
Top of casing at
0.5 ft. above
ground level

5 DIAMETER
SCHEDULE 40
PVC BLANK
CASING: 0 to 67
ft.

BENTONITE-
CEMENT SEAL: 0
to 59 ft.

Completion Date 11/29/2000

Drilling Method Hollow Stem Auger

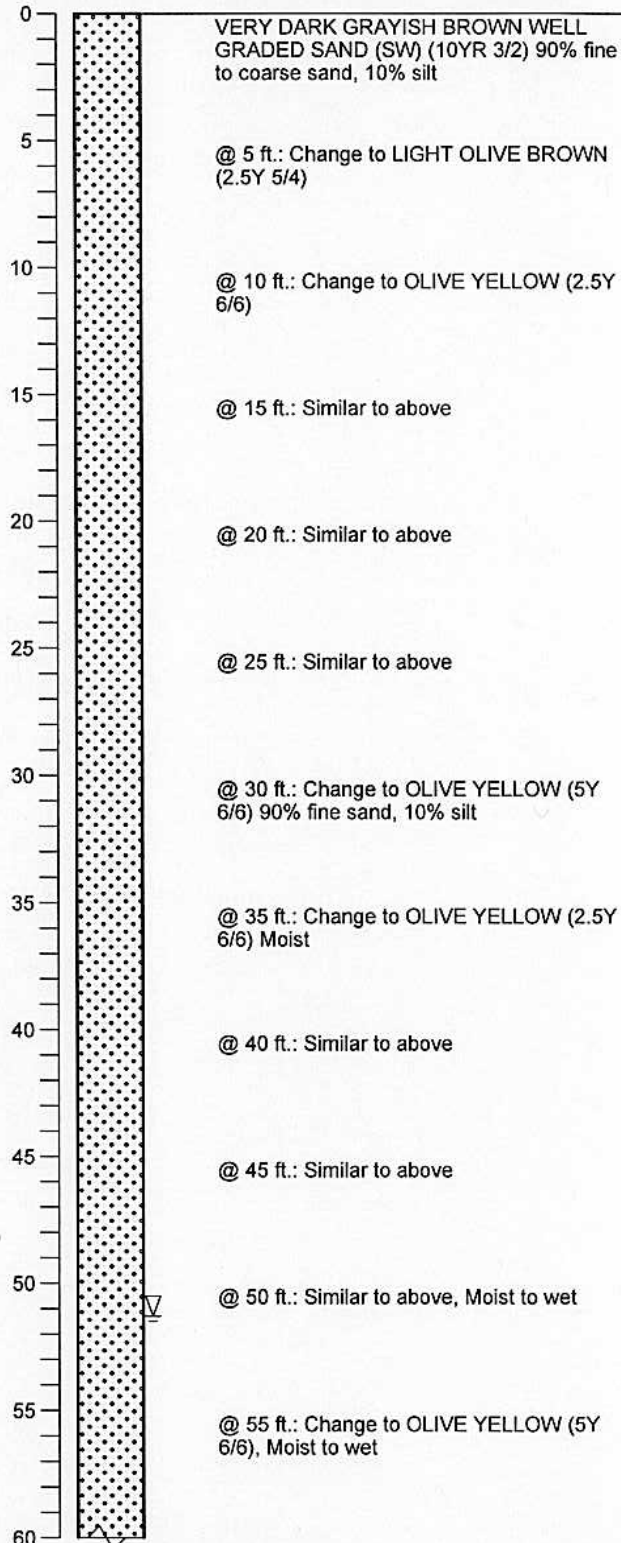
Logged by

Surface Elevation 129.19 ft.

Hole Dia. 12 in.

Northing 2142013.663 Easting 5746372.131

Depth (ft.)
Sample



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-34-A
OUCTP

PLATE

Fort Ord, California

DRAWN
PCB

JOB NUMBER
55596 001701

APPROVED
MST / CM

DATE
11/04

REVISED DATE

A44

Completion Date 11/29/2000
 Drilling Method Hollow Stem Auger
 Logged by _____
 Surface Elevation 129.19 ft. Hole Dia. 12 in.
 Northing 2142013.663 Easting 5746372.131

Depth (ft.)
Sample

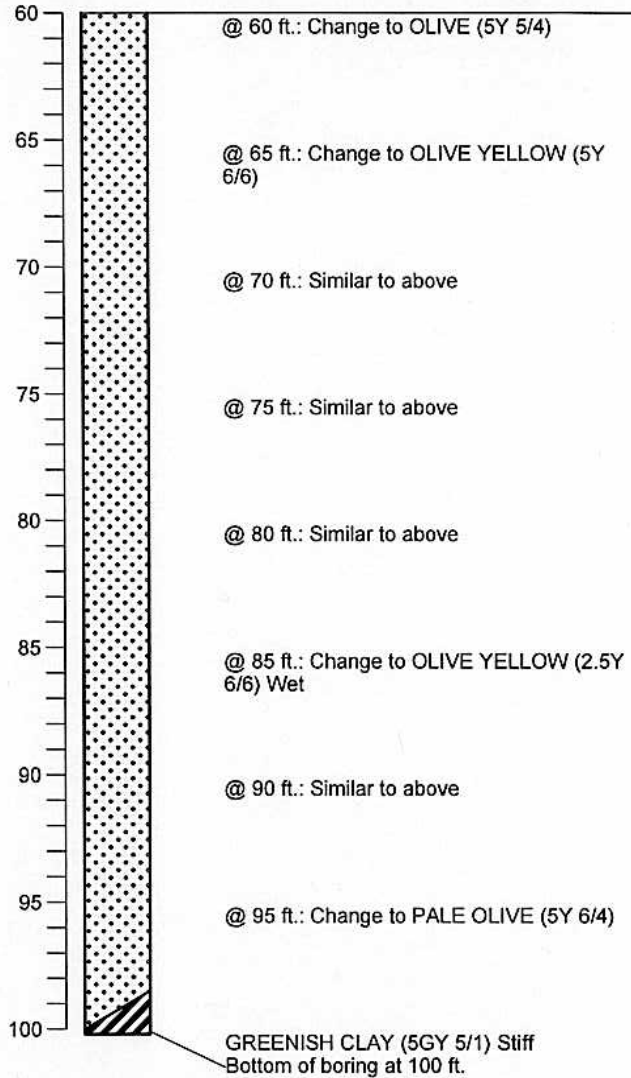
BENTONITE-
PELLET SEAL: 59
to 62 ft.

Lonestar #3
SANDPACK: 62 to
99 ft.

5 DIA. SLOTTED
(0.02) SCREEN:
67 to 97 ft.

BOTTOM WELL
CAP: 98 ft.

BOTTOM OF
BOREHOLE: 100
ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-34-A
OUCTP

Fort Ord, California

PLATE

A44

DRAWN
PCB

JOB NUMBER
55596 001701

APPROVED
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DATE
11/04

REVISED DATE

Top of PVC Casing
Elev. 138.56 ft.
CHRISTY
BOX

GROUND SURFACE

BENTONITE-
CEMENT SEAL: 0
to 140 ft.

Time

Completion Date 10/8/2001

Drilling Method ARCH/mud rotary

Logged by D. Browne

Surface Elevation 138.50 ft. Hole Dia. 10.5 in.

Northing 2141535.96 Easting 5751176.57

Depth (ft.)
Sample

0
5
10
15
20
25
30
35
40
45
50

BROWN SILTY SAND (SM) (10YR 5/3)
Loose, dry, 80% fine to coarse sand, 20% silt

YELLOWISH BROWN WELL GRADED
SAND (SW) (10 YR 5/4) 90% fine to coarse
sand, 10% silt

@ 10 ft.: Similar to above

@ 15 ft.: Similar to above

@ 20 ft.: Change to BROWNISH YELLOW
(10YR 6/6)

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above

@ 35 ft.: Similar to above

@ 40 ft.: Similar to above

@ 45 ft.: Similar to above

@ 50 ft.: Similar to above

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-35-180
OUCTP

PLATE

Fort Ord, California

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JOB NUMBER
55596 001701

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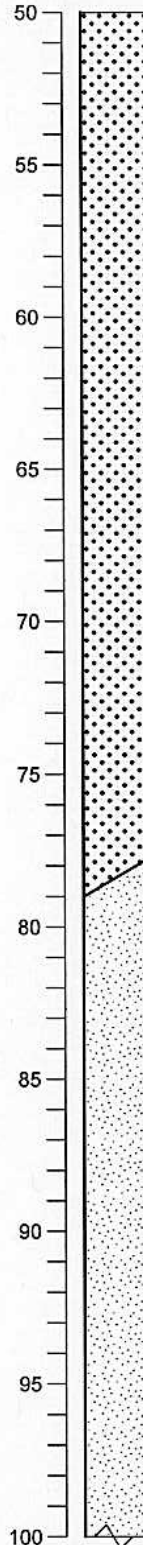
A45

Completion Date 10/8/2001
 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 138.50 ft. Hole Dia. 10.5 in.
 Northing 2141535.96 Easting 5751176.57

BENTONITE-
CEMENT SEAL: 0
to 140 ft.

Time

Depth (ft.)
Sample



YELLOWISH BROWN WELL GRADED
SAND (SW) (10 YR 5/4) 90% fine to coarse
sand, 10% silt

@ 55 ft.: Change to 95% fine to coarse
sand, 5% silt

@ 60 ft.: Similar to above

@ 65 ft.: Similar to above

@ 70 ft.: Similar to above

@ 75 ft.: Similar to above

YELLOWISH BROWN POORLY GRADED
SAND (SP) (10YR 5/4) 90% fine to medium
sand, 10% silt

@ 85 ft.: Similar to above

@ 90 ft.: Similar to above

@ 95 ft.: Similar to above

@ 100 ft.: Similar to above

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-35-180
OUCTP

PLATE

Fort Ord, California

A45

DRAWN
CN

JOB NUMBER
55596 001701

APPROVED
MDT / cm

DATE
11/04

REVISED DATE

Completion Date 10/8/2001
 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 138.50 ft. Hole Dia. 10.5 in.
 Northing 2141535.96 Easting 5751176.57

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

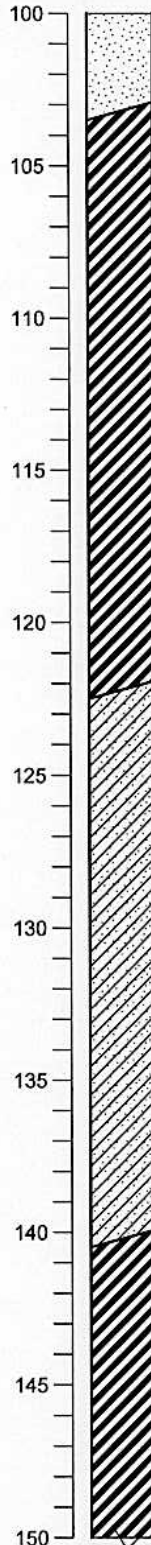
BENTONITE-
CEMENT SEAL: 0
to 140 ft.

BENTONITE/
SAND SEAL: 140
to 235 ft.

Time

Depth (ft.)
Sample

0730



OLIVE GRAY FAT CLAY (CH) (5Y 5/2)
90% clay, 10% fine sand

@ 110 ft.: Similar to above

@ 115 ft.: Similar to above

@ 120 ft.: Similar to above

OLIVE CLAYEY SAND (SC) (5Y 5/4) 80%
fine to coarse sand, 20% clay

@ 130 ft.: Similar to above

@ 135 ft.: Similar to above

PALE OLIVE FAT CLAY (CH) (5Y 6/3) 90%
clay, 10% fine sand

@ 145 ft.: Similar to above

@ 150 ft.: Similar to above



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Well Construction Details and
Log of Boring MW-BW-35-180
OUCTP

PLATE

Fort Ord, California

A45

DRAWN
CN

JOB NUMBER
55596 001701

APPROVED
NOT/cn

DATE
11/04

REVISED DATE

Completion Date 10/8/2001

Drilling Method ARCH/mud rotary

Logged by D. Browne

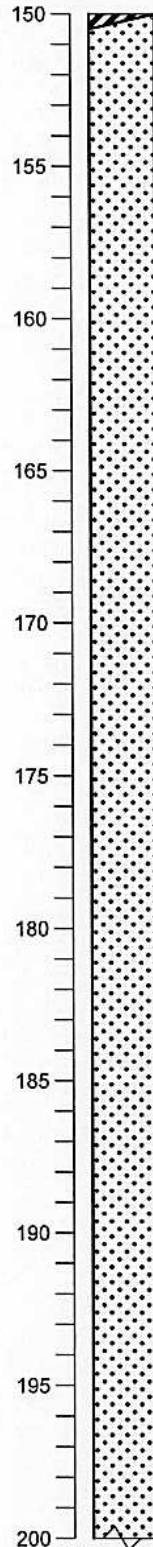
Surface Elevation 138.50 ft. Hole Dia. 10.5 in.

Northing 2141535.96 Easting 5751176.57

BENTONITE/
SAND SEAL: 140
to 235 ft.

Time

Depth (ft.)
Sample



OLIVE GRAY WELL GRADED SAND (SW)
(5Y 5/2) 90% fine to coarse sand, 10% clay

@ 155 ft.: Similar to above

@ 160 ft.: Similar to above

@ 165 ft.: Change to 95% fine to coarse
sand, 5% silt

@ 170 ft.: Similar to above

@ 175 ft.: Similar to above

@ 180 ft.: Similar to above

@ 185 ft.: Similar to above

@ 190 ft.: Similar to above

@ 195 ft.: Similar to above

@ 200 ft.: Similar to above

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-35-180
OUCTP

PLATE

Fort Ord, California

A45

DRAWN
CN

JOB NUMBER
55596 001701

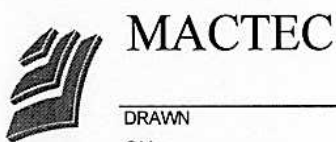
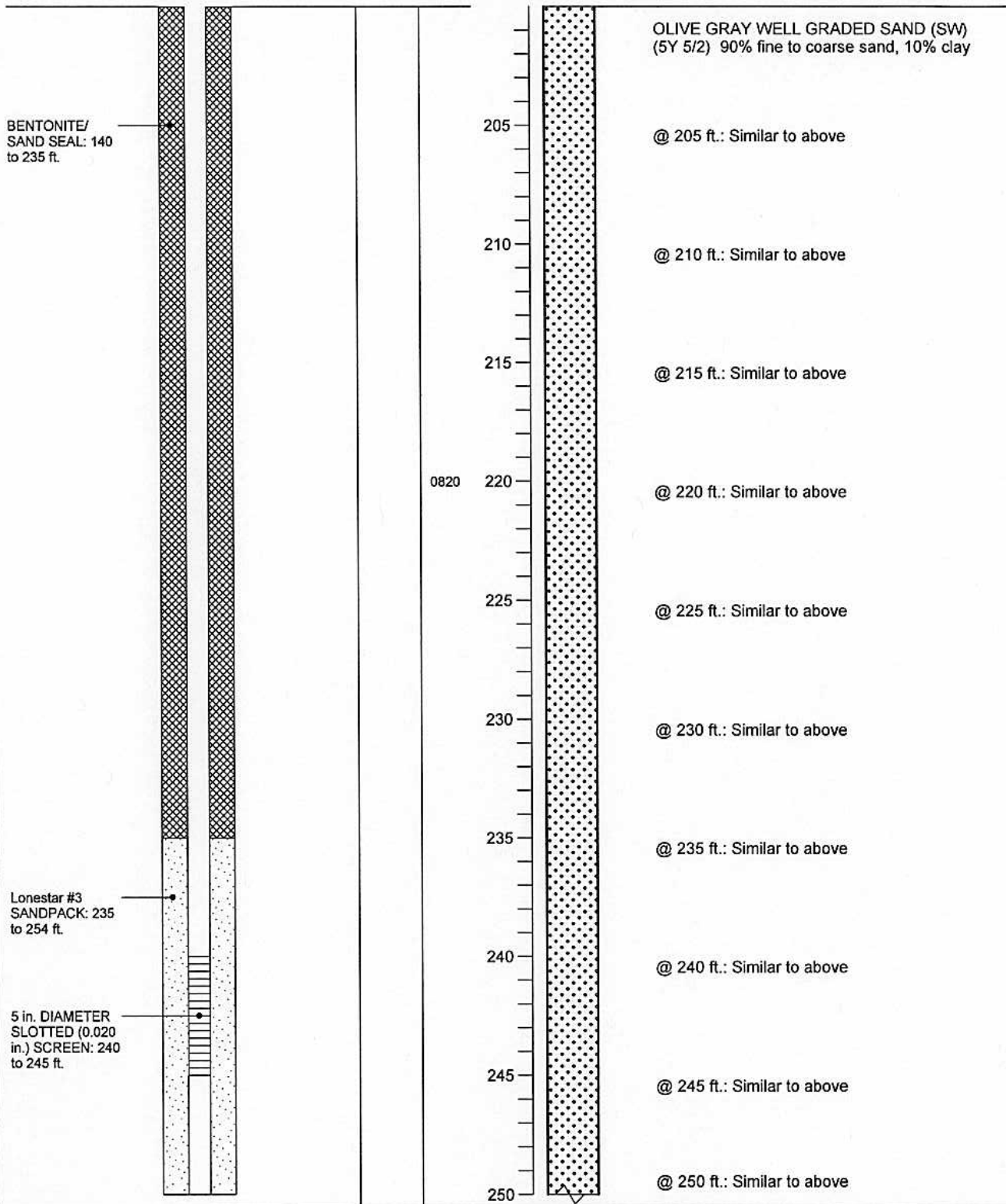
APPROVED
not/can

DATE
11/04

REVISED DATE

Completion Date 10/8/2001
 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 138.50 ft. Hole Dia. 10.5 in.
 Northing 2141535.96 Easting 5751176.57

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



**Well Construction Details and
Log of Boring MW-BW-35-180**
OUCTP

Fort Ord, California

PLATE

A45

DRAWN CN	JOB NUMBER 55596 001701	APPROVED MST / <i>car</i>	DATE 11/04	REVISED DATE
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Completion Date 10/8/2001

Drilling Method ARCH/mud rotary

Logged by D. Browne

Surface Elevation 138.50 ft. Hole Dia. 10.5 in.

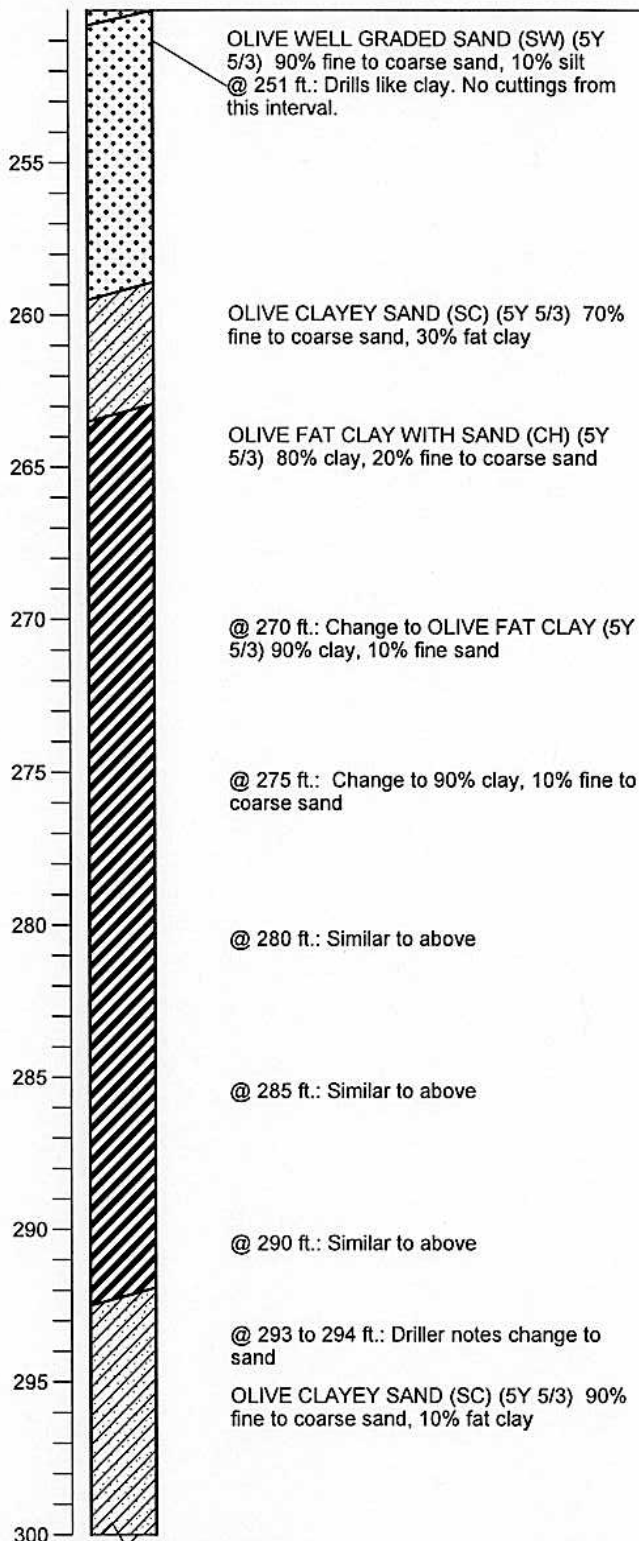
Northing 2141535.96 Easting 5751176.57

Lonestar #3
SANDPACK: 235
to 254 ft.

BENTONITE/
SAND SEAL: 254
to 305 ft.

Time

Depth (ft.)
Sample



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-35-180
OUCTP

Fort Ord, California

PLATE

A45

DRAWN
CN

JOB NUMBER
55596 001701

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MAT / cm

DATE
11/04

REVISED DATE

Completion Date 10/8/2001
 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 138.50 ft. Hole Dia. 10.5 in.
 Northing 2141535.96 Easting 5751176.57

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

BENTONITE/
SAND SEAL: 254
to 305 ft.

Lonestar #3
SANDPACK: 305
to 323 ft.

5 in. DIAMETER
SLOTTED (0.020
in.) SCREEN: 310
to 315 ft.

BENTONITE/
SAND SEAL: 323
to 360 ft.

Time

Depth (ft.)
Sample

0920

305

310

315

0935

320

325

330

335

0935

340

345

350

OLIVE CLAYEY SAND (SC) (5Y 5/3) 90%
fine to coarse sand, 10% fat clay

@ 305 ft.: Similar to above

@ 310 ft.: Similar to above

@ 315 ft.: Similar to above

PALE OLIVE WELL GRADED SAND (SW)
(5Y 6/3) 90% fine to coarse sand, 10% silt

@ 325 ft.: Similar to above

@ 330 ft.: Similar to above

@ 335 ft.: Change to 95% fine to coarse
sand, 5% silt

Driller Notes: Drills like clay, no recovery

PALE OLIVE WELL GRADED SAND (SW)
(5Y 6/3) 90% fine to coarse sand, 10% silt



MACTEC

Well Construction Details and
Log of Boring MW-BW-35-180
OUCTP

Fort Ord, California

PLATE

A45

DRAWN
CN

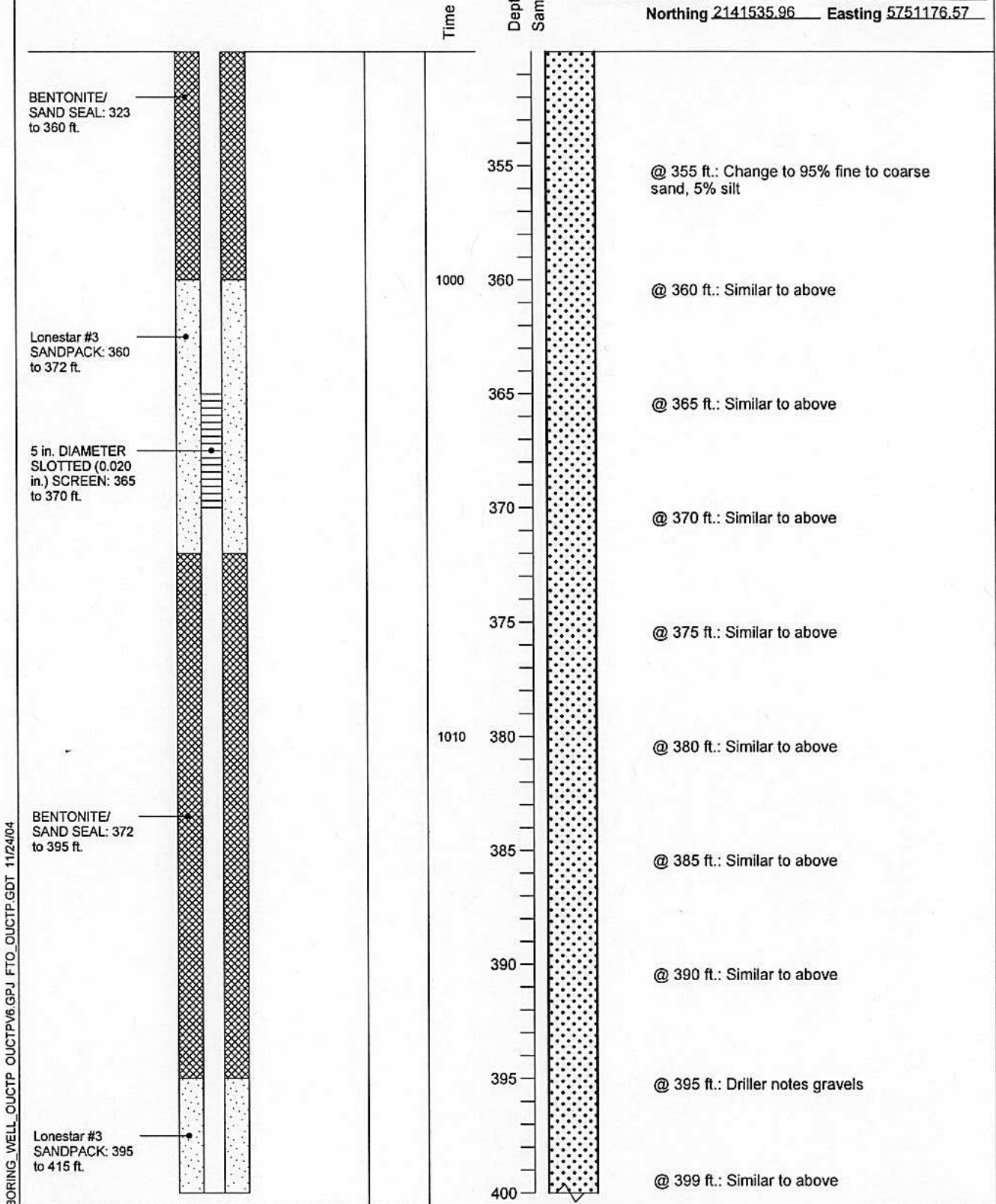
JOB NUMBER
55596 001701

APPROVED
MDT / cm

DATE
11/04

REVISED DATE

Completion Date 10/8/2001
 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 138.50 ft. Hole Dia. 10.5 in.
 Northing 2141535.96 Easting 5751176.57



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-35-180
 OUCTP

PLATE

A45

Fort Ord, California

DRAWN
 CN

JOB NUMBER
 55596 001701

APPROVED
MDT / am

DATE
 11/04

REVISED DATE

Completion Date 10/8/2001

Drilling Method ARCH/mud rotary

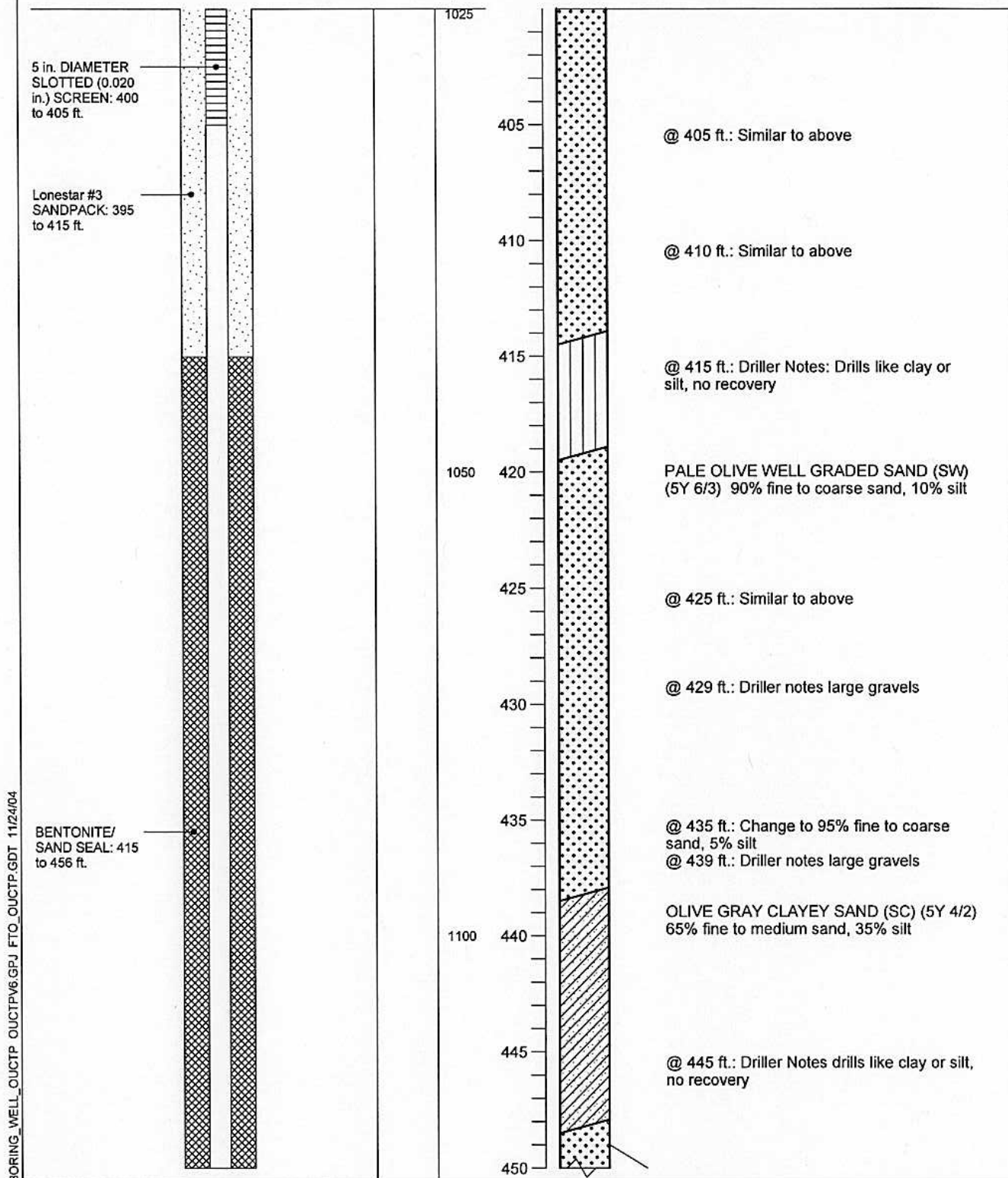
Logged by D. Browne

Surface Elevation 138.50 ft.

Hole Dia. 10.5 in.

Northing 2141535.96

Easting 5751176.57



Well Construction Details and
Log of Boring MW-BW-35-180
OUCTP

PLATE



MACTEC

Fort Ord, California

DRAWN
CN

JOB NUMBER
55596 001701

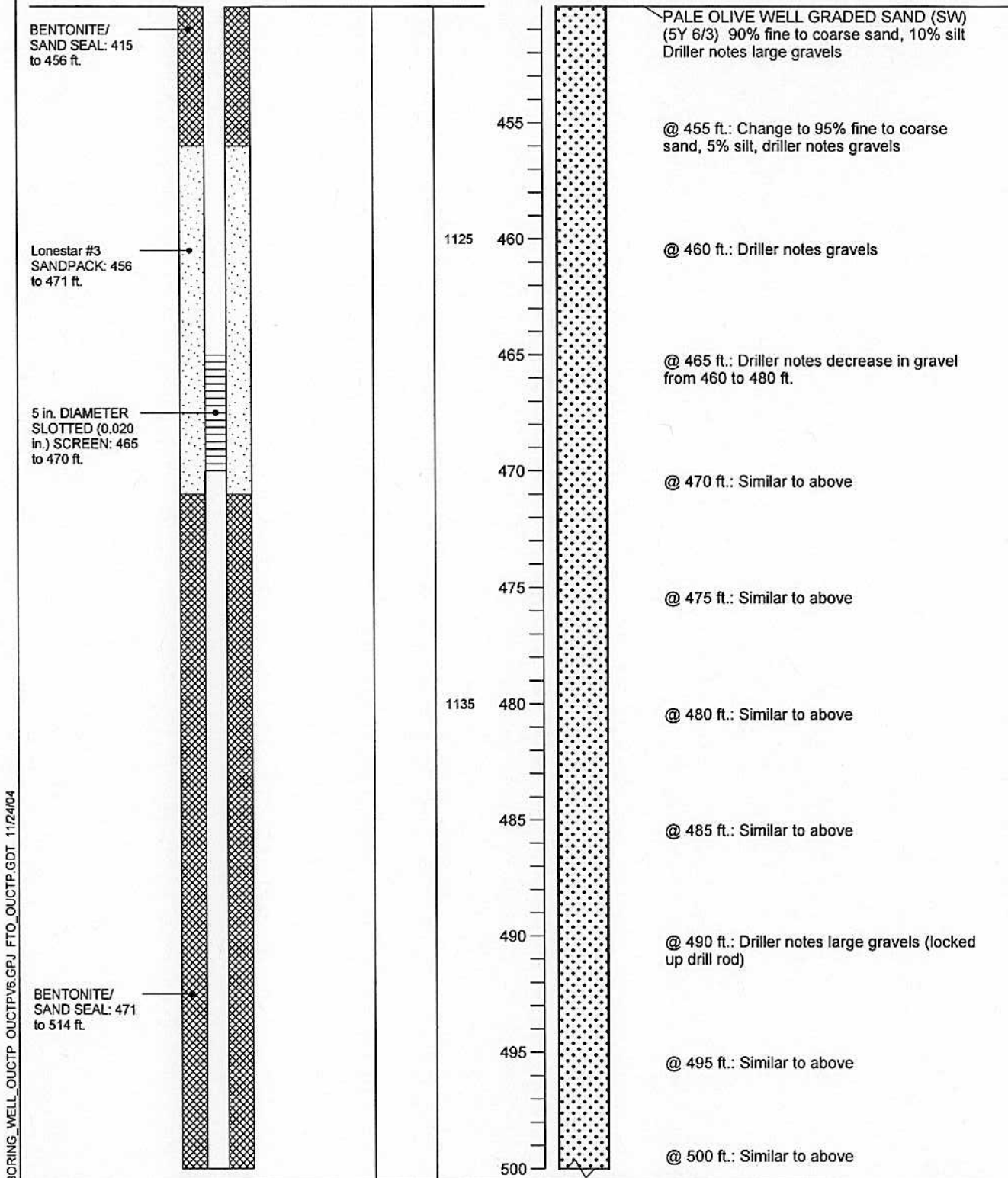
APPROVED
MDT / am

DATE
11/04

REVISED DATE

A45

Completion Date 10/8/2001
 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 138.50 ft. Hole Dia. 10.5 in.
 Northing 2141535.96 Easting 5751176.57



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-35-180
 OUCTP

PLATE

Fort Ord, California

A45

DRAWN
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JOB NUMBER
 55596 001701

APPROVED
MDT / cm

DATE
 11/04

REVISED DATE

Completion Date 10/8/2001
 Drilling Method ARCH/mud rotary
 Logged by D. Browne
 Surface Elevation 138.50 ft. Hole Dia. 10.5 in.
 Northing 2141535.96 Easting 5751176.57

BENTONITE/
SAND SEAL: 471
to 514 ft.

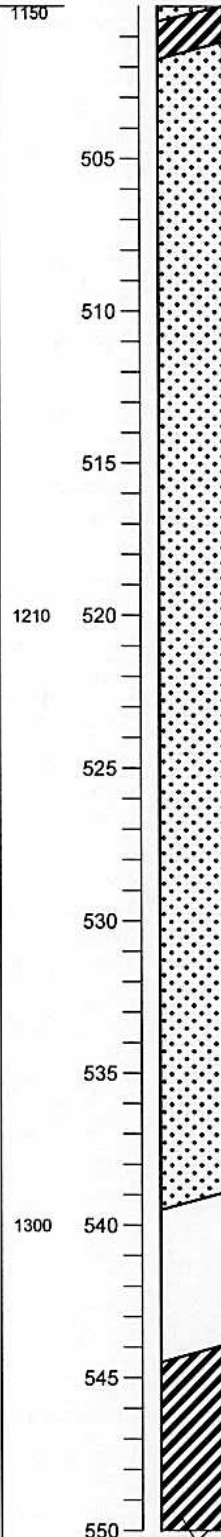
Lonestar #3
SANDPACK: 514
to 530 ft.

5 in. DIAMETER
SLOTTED (0.020
in.) SCREEN: 525
to 530 ft.

BENTONITE/
SAND SEAL: 530
to 550 ft.

Time

Depth (ft.)
Sample



Driller notes clay

PALE OLIVE WELL GRADED SAND (SW)
(5Y 6/3) 95% fine to coarse sand, 5% silt

@ 505 ft.: Similar to above

Driller Notes: Feels like clay, no recovery -
suspect tricone is damaged

PALE OLIVE WELL GRADED SAND (SW)
(5Y 6/3) 90% fine to coarse sand, 10% clay

Driller notes a change, feels like clay

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-35-180
OUCTP

Fort Ord, California

PLATE

A45

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CN

JOB NUMBER
55596 001701

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DATE
11/04

REVISED DATE

Completion Date 10/8/2001

Drilling Method ARCH/mud rotary

Logged by D. Browne

Surface Elevation 138.50 ft. Hole Dia. 10.5 in.

Northing 2141535.96 Easting 5751176.57

Time

Depth (ft.)
Sample

Lonestar #3
SANDPACK: 550
to 560 ft.

5 in. DIAMETER
SLOTTED (0.020
in.) SCREEN: 560
to 565 ft.

5 in. DIA. SCHED.
40 PVC BLANK
SILT TRAP: 565 to
580 ft.

BOTTOM WELL
CAP: 580 ft.

1330

555

PALE OLIVE CLAYEY SAND (SC) (5Y 6/3)
80% fine to coarse sand, 20% fat clay

560

PALE OLIVE WELL GRADED SAND (SW)
(5Y 6/3) 90% fine to coarse sand, 10% silt

565

@ 565 ft.: Similar to above

570

@ 570 ft.: Similar to above

575

@ 575 ft.: Similar to above

580

Bottom of boring at 580 ft.

BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-35-180
OUCTP

Fort Ord, California

PLATE

A45

DRAWN
CN

JOB NUMBER
55596 001701

APPROVED
MST / cur

DATE
11/04

REVISED DATE

Top of PVC Casing
Elev. 112.29 ft.

GROUND SURFACE
Top of casing at
0.5 ft. above
ground level

5 DIAMETER
SCHEDULE 40
PVC BLANK
CASING: 0 to 59
ft.

BENTONITE-
CEMENT SEAL: 0
to 59 ft.

Completion Date 11/16/2000

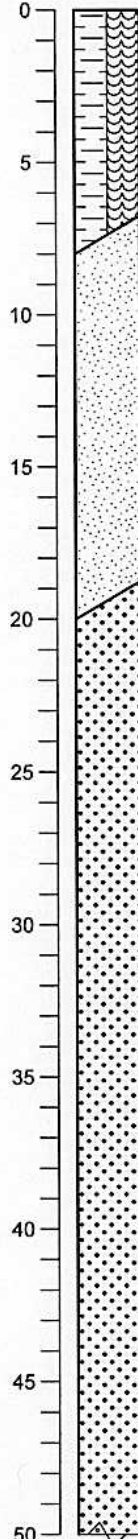
Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 111.76 ft. Hole Dia. 12 in.

Northing 2142432.427 Easting 5746201.783

Depth (ft.)
Sample



VERY DARK GRAYISH BROWN SANDY
ORGANIC SOIL (OL/OH) (10YR 3/2) Loose,
moist, 65% soil, 35% medium to fine sand

@ 3 ft.: Change to DARK GRAYISH
BROWN (10YR 4/2), 60% soil, 40% sand

@ 8 ft.: Change to BROWN (10YR 5/3) 60%
sand, 40% soil
LIGHT YELLOWISH BROWN POORLY
GRADED SAND (SP) (10YR 6/4) Loose,
dry, 100% fine sand

@ 15 ft.: Similar to above

LIGHT YELLOWISH BROWN WELL
GRADED SAND (SW) (10YR 6/4) Medium
dense, dry, 100% fine to medium sand

@ 30 ft.: Similar to above

@ 33 ft.: Change to BROWNISH YELLOW
(10YR 6/6) Moist, increase in grain size

@ 38 ft.: Similar to above, decrease in grain
size

@ 40 ft.: Similar to above

@ 45 ft.: Change to YELLOWISH BROWN
(10YR 5/6) 95% sand, 5% silt

@ 48 ft.: Change to 90% sand, 10% silt

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-35-A

OUCTP

Fort Ord, California

PLATE

A46

DRAWN
PCB

JOB NUMBER
55596 001701

APPROVED

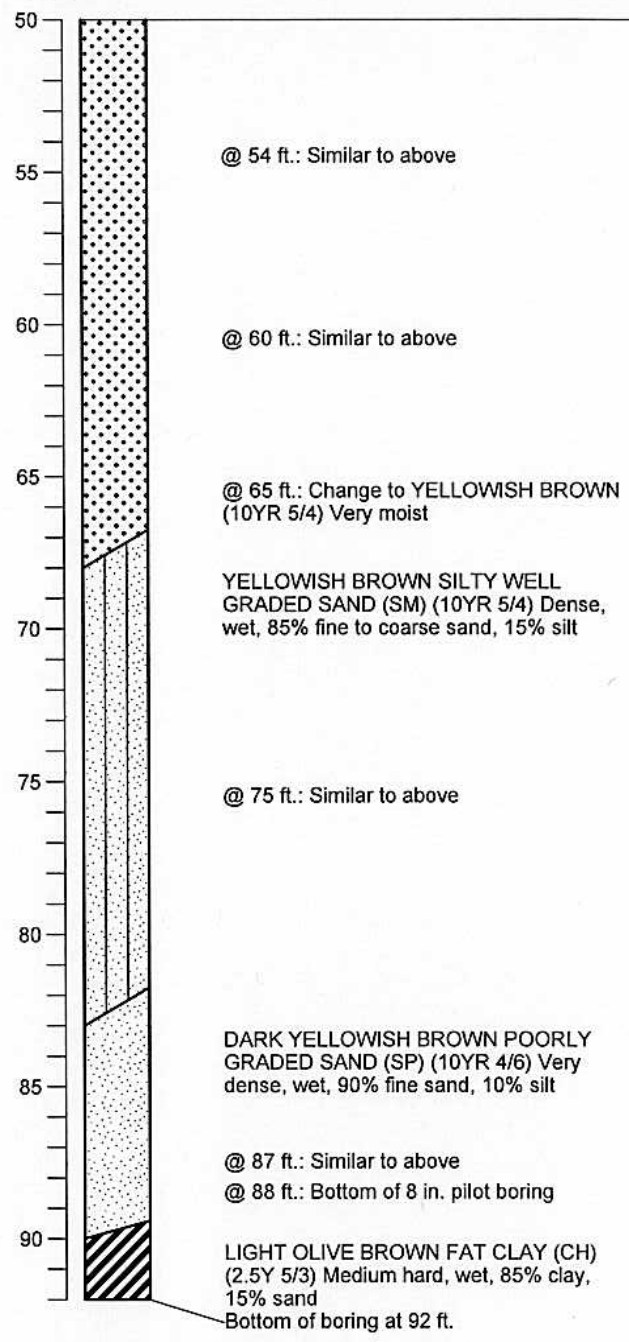
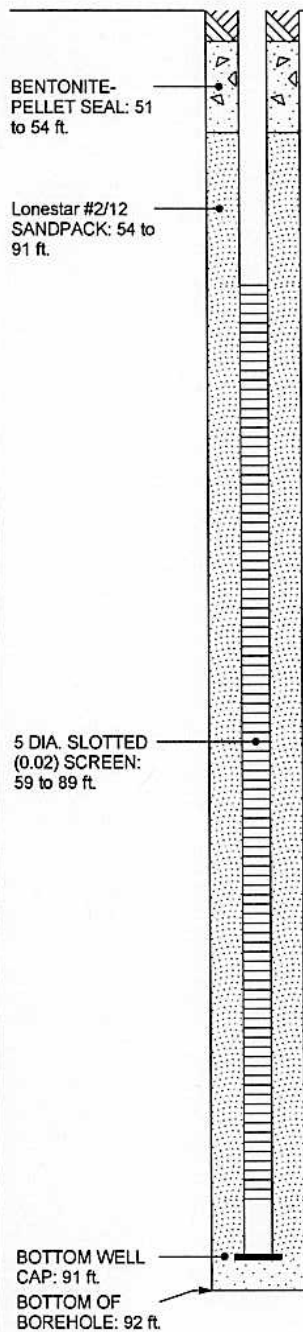
MDT / cm

DATE
11/04

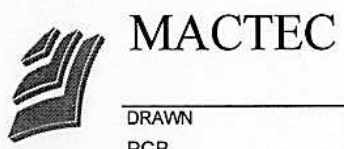
REVISED DATE

Completion Date 11/16/2000
 Drilling Method Hollow Stem Auger
 Logged by _____
 Surface Elevation 111.76 ft. Hole Dia. 12 in.
 Northing 2142432.427 Easting 5746201.783

Depth (ft.)
 Sample



BORING_WELL_OUCTP_OUCTPV6GPJ_FTO_OUCTP.GDT 11/24/04



Well Construction Details and
 Log of Boring MW-BW-35-A
 OUCTP

PLATE

A46

Fort Ord, California

DRAWN PCB JOB NUMBER 55596 001701

APPROVED MDT/cmr

DATE 11/04

REVISED DATE

Top of PVC Casing
Elev. 114.66 ft.
CHRISTY
BOX

GROUND SURFACE
Top of casing at
0.5 ft. above
ground level

5 DIAMETER
SCHEDULE 40
PVC BLANK
CASING: 0 to 55
ft.

BENTONITE-
CEMENT SEAL: 0
to 47.5 ft.

BENTONITE-
PELLET SEAL:

Completion Date 11/13/2000

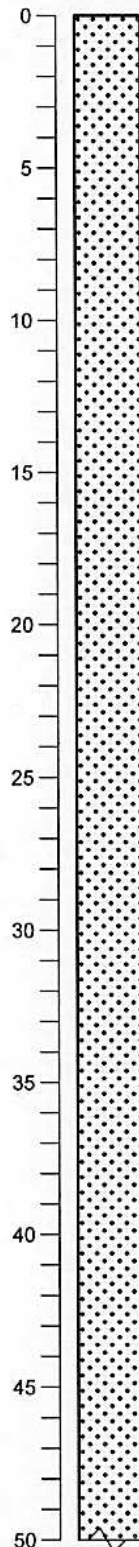
Drilling Method Hollow Stem Auger

Logged by

Surface Elevation 115.03 ft. Hole Dia. 12 in.

Northing 2142791.202 Easting 5746519.207

Depth (ft.)
Sample



VERY DARK BROWN WELL GRADED
SAND (SW) (10YR 2/2) Moist, 95% fine to
coarse sand, 5% silt

@ 3 ft.: Change to DARK BROWN (10YR
3/3)

@ 5 ft.: Change to DARK YELLOWISH
BROWN (10YR 4/4)

@ 8 ft.: Change to LIGHT OLIVE BROWN
(2.5Y 5/4), Increase in coarse sand

@ 13 ft.: Change to LIGHT YELLOWISH
BROWN (2.5Y 6/4)

@ 20 ft.: Similar to above

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above, Moist to wet

@ 35 ft.: Similar to above

@ 40 ft.: Similar to above

@ 45 ft.: Similar to above

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-36-A
OUCTP

PLATE

Fort Ord, California

DRAWN
PCB

JOB NUMBER
55596 001701

APPROVED

MDT / cm

DATE
11/04

REVISED DATE

A47

Completion Date 11/13/2000

Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 115.03 ft. Hole Dia. 12 in.

Northing 2142791.202 Easting 5746519.207

Depth (ft.)
Sample

47.5 to 50 ft.

Lonestar #2/12
SANDPACK: 50 to
87 ft.

5 DIA. SLOTTED
(0.02) SCREEN:
55 to 85 ft.

BOTTOM WELL
CAP: 87 ft.
BOTTOM OF
BOREHOLE: 88 ft.

50

55

60

65

70

75

80

85

@ 50 ft.: Change to OLIVE YELLOW (2.5Y 6/6)

@ 53 ft.: Change to OLIVE BROWN (2.5Y 4/4)

@ 55 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/6)

@ 60 ft.: Change to OLIVE YELLOW (2.5Y 6/6), Increase in fine sand

@ 65 ft.: Similar to above

@ 70 ft.: Similar to above

@ 75 ft.: Similar to above

@ 80 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/4), Wet

@ 83 ft.: Change to OLIVE BROWN (2.5Y 4/3)

DARK GREENISH GRAY FAT CLAY (CH) (5GY 4/1) Medium stiff, oxidized orange color

Bottom of boring at 88 ft.

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-36-A

OUCTP

Fort Ord, California

PLATE

A47

DRAWN
PCB

JOB NUMBER
55596 001701

APPROVED

MDT/cmr

DATE
11/04

REVISED DATE

Top of PVC Casing
Elev. 99.58 ft.
CHRISTY
BOX

GROUND SURFACE
Top of casing at
0.5 ft. below
ground level

5 DIAMETER
SCHEDULE 40
PVC BLANK
CASING: 0 to 45
ft.

BENTONITE-
CEMENT SEAL: 0
to 37.5 ft.

BENTONITE-
PELLET SEAL:
37.5 to 40 ft.

Lonestar #2/12
SANDPACK: 40 to
76 ft.

Completion Date 11/27/2001

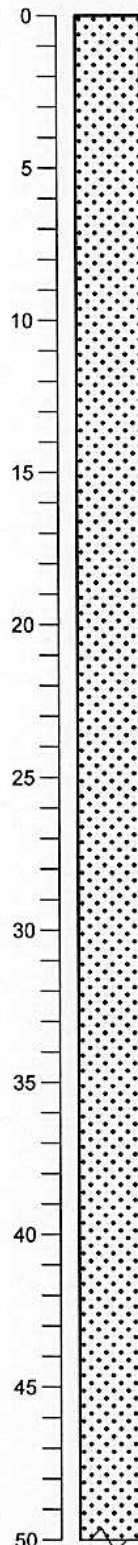
Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 110.10 ft. Hole Dia. 12 in.

Northing 2142104.205 Easting 5744854.563

Depth (ft.)
Sample



VERY DARK BROWN WELL GRADED
SAND (SW) (10YR 2/1) 90% fine to coarse
sand, 10% silt

@ 3 ft.: Change to VERY DARK BROWN
(10YR 2/2)

@ 4 ft.: Change to VERY DARK BROWN
(10YR 2/1)

@ 7 ft.: Change to VERY DARK GRAYISH
BROWN (10YR 3/2)

@ 10 ft.: Change to LIGHT OLIVE BROWN
(2.5YR 5/4)

@ 12 ft.: Change to BROWN (10YR 4/3)

@ 15 ft.: Change to LIGHT OLIVE BROWN
(2.5YR 5/4)

@ 17 ft.: Change to OLIVE BROWN (2.5YR
4/4)

@ 20 ft.: Change to LIGHT OLIVE BROWN
(2.5YR 5/4) Dry to moist

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above

@ 35 ft.: Similar to above

@ 40 ft.: Change to OLIVE BROWN (2.5YR
4/3) Increase in coarse sand, moist

@ 45 ft.: Change to LIGHT OLIVE BROWN
(2.5YR 5/4)

@ 48 ft.: Change to OLIVE BROWN (2.5YR
4/3)

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-37-A
OUCTP

PLATE

Fort Ord, California

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PCB

JOB NUMBER
55596 001701

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DATE
11/04

REVISED DATE

A48

Completion Date 11/27/2001

Drilling Method Hollow Stem Auger

Logged by _____

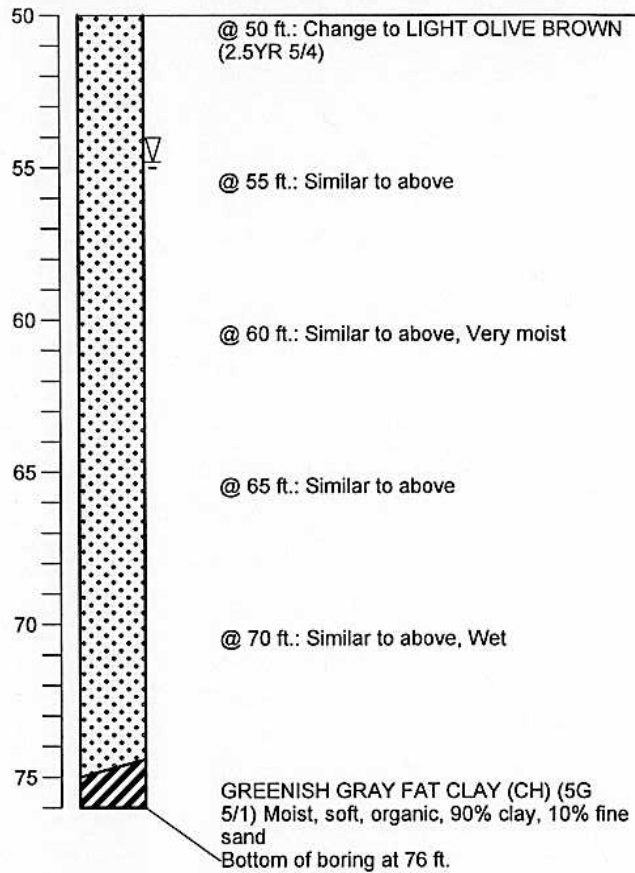
Surface Elevation 110.10 ft. Hole Dia. 12 in.

Northing 2142104.205 Easting 5744854.563

Depth (ft.)
Sample

5 DIA. SLOTTED
(0.02) SCREEN:
45 to 75 ft.

BOTTOM WELL
CAP: 87 ft
BOTTOM OF
BOREHOLE: 76 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-37-A
OUCTP

Fort Ord, California

PLATE

A48

DRAWN
PCB

JOB NUMBER
55596 001701

APPROVED
MDT / car

DATE
11/04

REVISED DATE

Top of PVC Casing
Elev. 115.68 ft.
CHRISTY
BOX

GROUND SURFACE
Top of casing at
0.5 ft. below
ground level

5 DIAMETER
SCHEDULE 80
PVC BLANK
CASING: 0 to 55
ft.

BENTONITE-
CEMENT SEAL: 0
to 48 ft.

BENTONITE-
PELLET SEAL: 48

Completion Date 11/29/2000

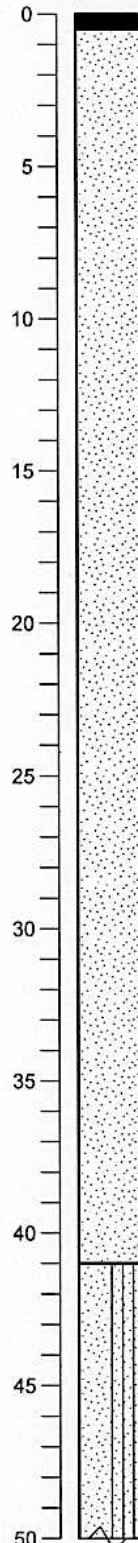
Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 116.00 ft. Hole Dia. 12 in.

Northing 2142390.799 Easting 5745790.759

Depth (ft.)
Sample



6 in. CONCRETE SIDEWALK
DARK YELLOWISH BROWN SAND (SP)
(10YR 4/4) Loose, fine sand

@ 4 ft.: Change to VERY DARK GRAYISH
BROWN (10YR 3/2)

@ 15 ft.: Change to YELLOWISH BROWN
(10YR 5/4), 5% silt

@ 30 ft.: Similar to above

@ 33 ft.: Change to BROWN (10YR 5/3)

VERY DARK GRAYISH BROWN SAND TO
SILTY SAND (SP-SM) (10YR 3/2) Loose,
damp, fine sand

BORING_WELL_OUCTP OUCTPV&GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

DRAWN
PCB

JOB NUMBER
55596 001701

Well Construction Details and
Log of Boring MW-BW-38-A
OUCTP

Fort Ord, California

APPROVED

MDT/cmr

DATE
11/04

REVISED DATE

A49

PLATE

Completion Date 11/29/2000

Drilling Method Hollow Stem Auger

Logged by

Surface Elevation 116.00 ft. Hole Dia. 12 in.

Northing 2142390.799 Easting 5745790.759

Depth (ft.)
Sample

to 50 ft.

Lonestar #2/12
SANDPACK: 50 to
84 ft.

5 DIA. SLOTTED
(0.02) SCREEN:
55 to 85 ft.

BOTTOM WELL
CAP: 86 ft.

BOTTOM OF
BOREHOLE: 88 ft.

50

55

60

65

70

75

80

85

@ 52 ft.: Change to Increasing silt content

DARK GRAYISH BROWN SILTY SAND
(SM) (10YR 4/3) Loose, damp, fine sand

@ 63 ft.: Change to YELLOW (10YR 7/6),
wet

@ 70 ft.: Similar to above

@ 80 ft.: Similar to above, very fine sand

LIGHT YELLOWISH BROWN SILTY CLAY
(CH) (2.5Y 6/3) Very stiff, damp to moist
Bottom of boring at 88 ft.

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-38-A

OUCTP

Fort Ord, California

DRAWN
PCB

JOB NUMBER
55596 001701

APPROVED

MDT/can

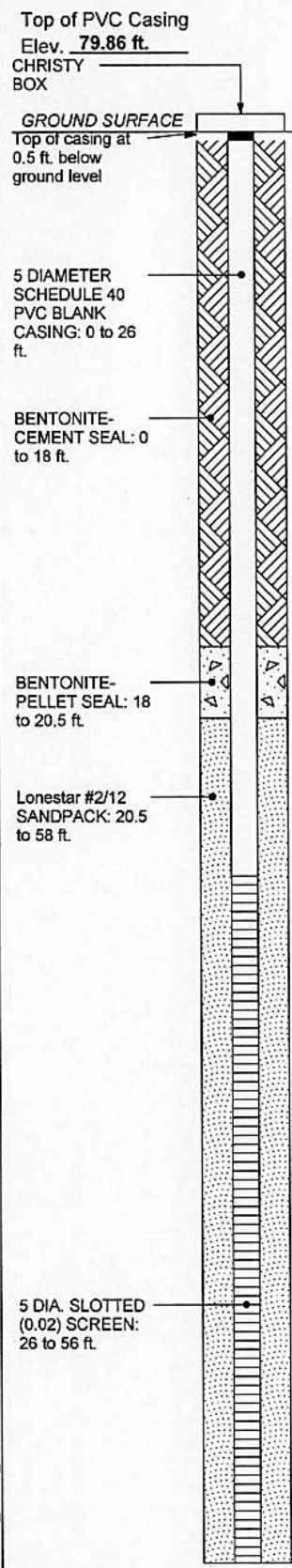
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11/04

REVISED DATE

A49

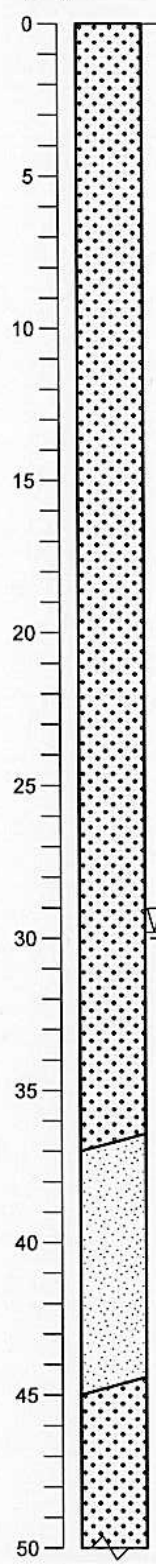
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BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



Completion Date 11/29/2000
Drilling Method Hollow Stem Auger
Logged by _____
Surface Elevation 79.12 ft. Hole Dia. 12 in.
Northing 2143239.705 Easting 5745712.811

Depth (ft.)
Sample



DARK OLIVE GRAY WELL GRADED
SAND (SW) (5Y 3/2) Loose, moist, 90% fine
to coarse sand, 10% silt

@ 3 ft.: Change to LIGHT OLIVE BROWN
(2.5Y 5/3), dry

@ 5 ft.: Change to LIGHT OLIVE BROWN
(2.5Y 5/4)

@ 10 ft.: Change to YELLOWISH BROWN
(10YR 5/4)

@ 15 ft.: Similar to above

@ 18 ft.: Similar to above, moist

@ 20 ft.: Change to DARK YELLOWISH
BROWN (10YR 4/6)

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above, wet

@ 35 ft.: Similar to above

DARK YELLOWISH BROWN POORLY
GRADED SAND (SP) (10YR 4/6) Loose,
wet, 90% fine to medium sand, 10% silt

@ 40 ft.: Change to BROWN (10YR 5/2)

LIGHT OLIVE WELL GRADED SAND (SW)
(2.5Y 5/4) Loose, wet, 90% fine to coarse
sand, 10% silt, small percentage coarse
sand



MACTEC

**Well Construction Details and
Log of Boring MW-BW-39-A**
OUCTP

PLATE

A50

Fort Ord, California

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
PCB	55596 001701	<i>NOT/Car</i>	11/04	

Completion Date 11/29/2000

Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 79.12 ft. Hole Dia. 12 in.

Northing 2143239.705 Easting 5745712.811

Depth (ft.)
Sample

BOTTOM WELL
CAP: 57 ft.
BOTTOM OF
BOREHOLE: 58 ft.

50

@ 50 ft.: Similar to above

55

@ 55 ft.: Similar to above

GREENISH GRAY FAT CLAY (CH) (5G
5/1) Medium stiff, moist, 90% clay, 10% silt
Bottom of boring at 58 ft.

BORING WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-39-A
OUCTP

PLATE

A50

Fort Ord, California

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PCB

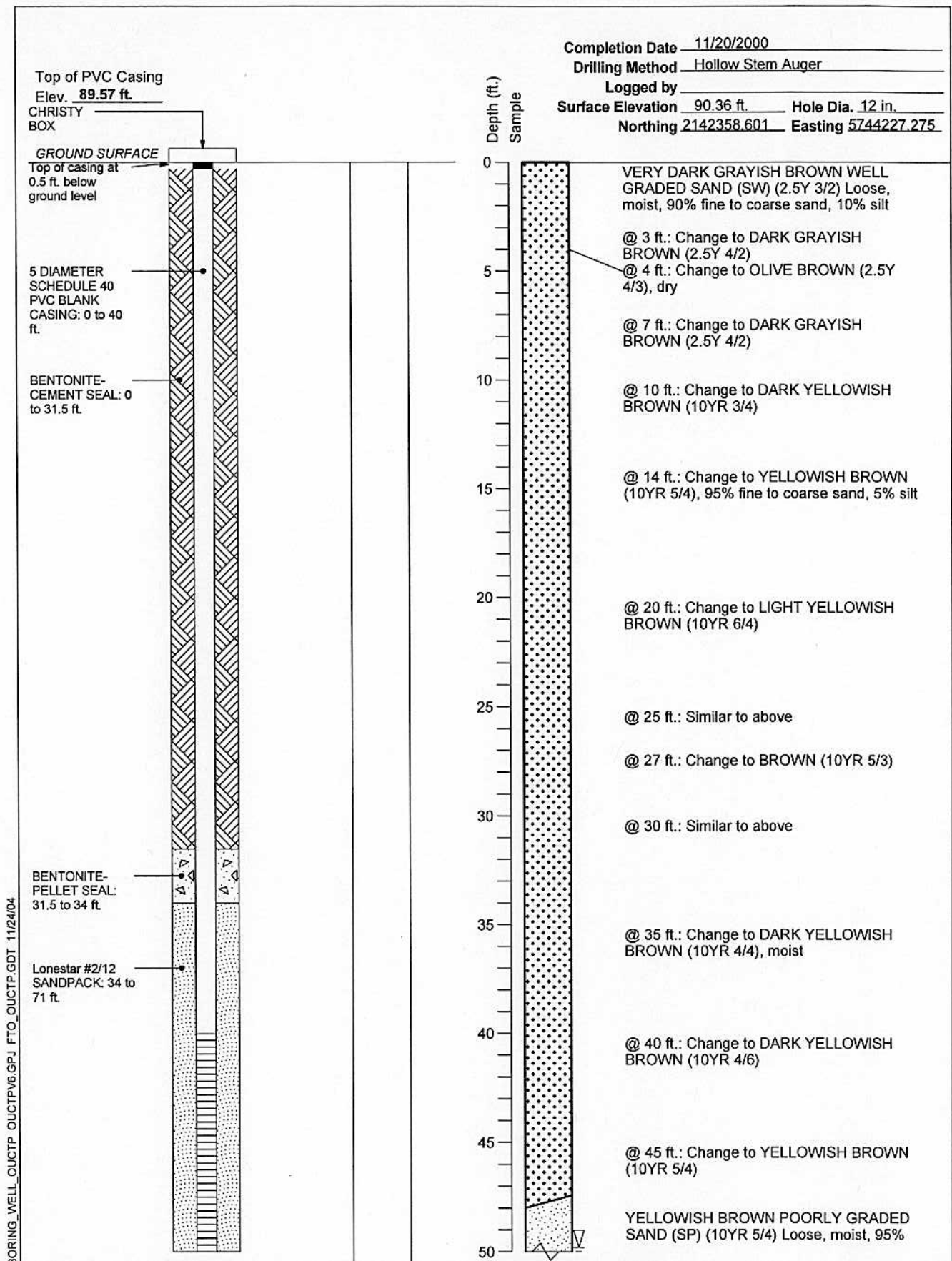
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BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and Log of Boring MW-BW-40-A
OUCTP

PLATE

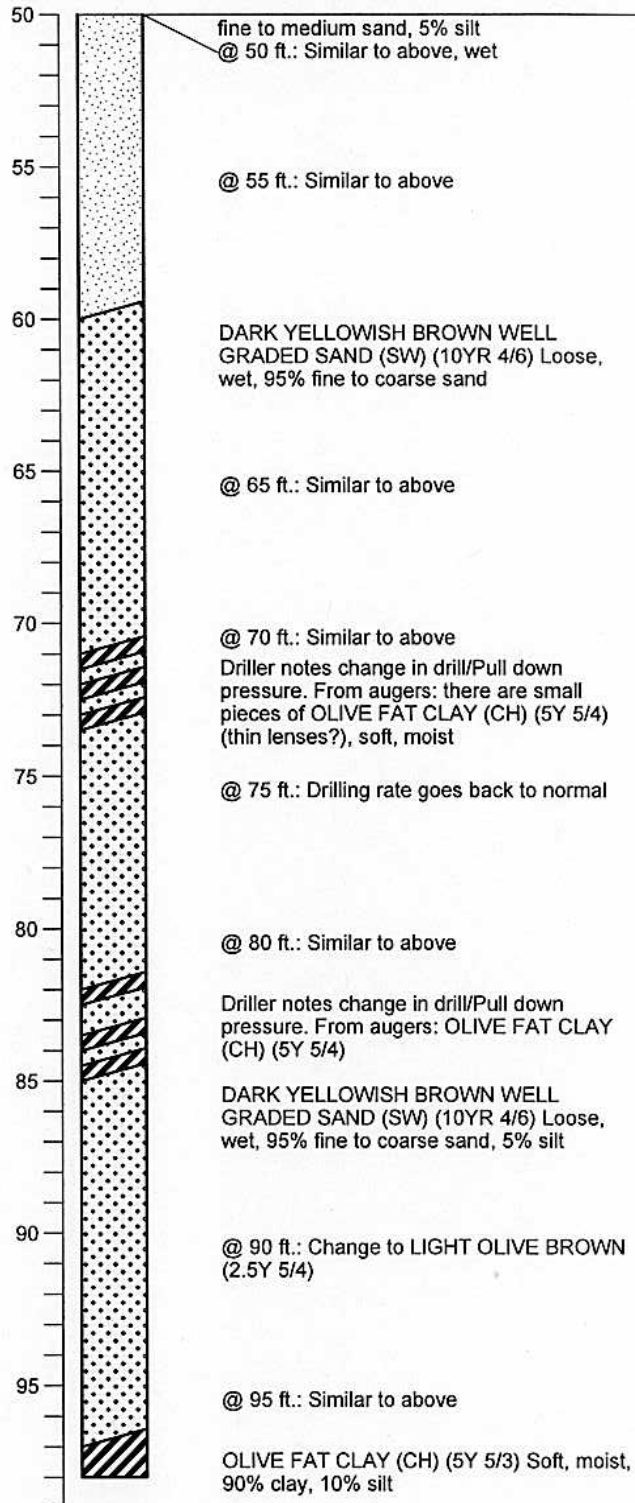
A51

Fort Ord, California

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
PCB	55596 001701	<i>MDT / car</i>	11/04	

Completion Date 11/20/2000Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 90.36 ft. Hole Dia. 12 in.Northing 2142358.601 Easting 5744227.275Depth (ft.)
Sample5 DIA. SLOTTED
(0.02) SCREEN:
40 to 70 ft.BOTTOM WELL
CAP: 71 ft.BOTTOM OF
BOREHOLE: 98 ft.

BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-40-A
OUCTP

PLATE

Fort Ord, California

DRAWN
PCBJOB NUMBER
55596 001701

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MOT / car

DATE
11/04

REVISED DATE

A51

Top of PVC Casing
Elev. 87.12 ft.
CHRISTY
BOX

GROUND SURFACE
Top of casing at
0.5 ft. below
ground level

5 DIAMETER
SCHEDULE 40
PVC BLANK
CASING: 0 to 28
ft.

BENTONITE-
CEMENT SEAL: 0
to 30 ft.

BENTONITE-
PELLET SEAL: 30
to 32.5 ft.

Lonestar #2/12
SANDPACK: 32.5
to 68 ft.

Completion Date 11/28/2000

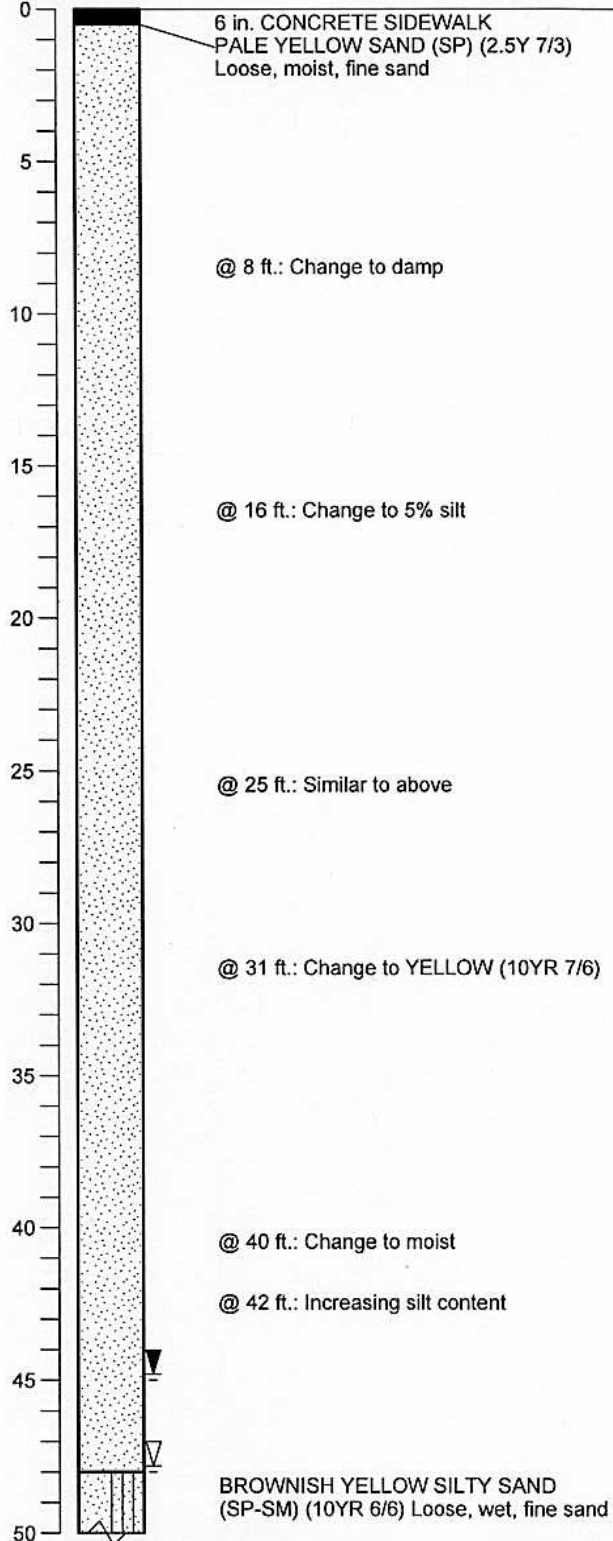
Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 87.54 ft. Hole Dia. 12 in.

Northing 2143247.438 Easting 5744425.489

Depth (ft.)
Sample



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-41-A
OUCTP

PLATE

Fort Ord, California

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PCB

JOB NUMBER
55596 001701

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DATE
11/04

REVISED DATE

A52

Completion Date 11/28/2000

Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 87.54 ft. Hole Dia. 12 in.

Northing 2143247.438 Easting 5744425.489

Depth (ft.)
Sample

5 DIA. SLOTTED
(0.02) SCREEN:
37 to 67 ft.

BOTTOM WELL
CAP: 68 ft
BOTTOM OF
BOREHOLE: 68 ft.

50

55

60

65

YELLOWISH BROWN CLAYEY SAND (SC)
(10YR 5/4) Dense, wet, fine sand

LIGHT OLIVE BROWN SANDY CLAY (CL)
(2.5Y 5/3) Stiff, moist, no odor
LIGHT OLIVE BROWN SILTY CLAY (CL)
(2.5Y 5/3) Very stiff, damp, no odor
Bottom of boring at 68 ft.

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-41-A
OUCTP

Fort Ord, California

PLATE

A52

DRAWN
PCB

JOB NUMBER
55596 001701

APPROVED
MOT / car

DATE
11/04

REVISED DATE

Top of PVC Casing
Elev. 88.52 ft.

Completion Date 11/15/2000

Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 87.65 ft. Hole Dia. 12 in.

Northing 2143291.792 Easting 5744809.871

GROUND SURFACE
Top of casing at 2
ft. above ground
level

5 DIAMETER
SCHEDULE 40
PVC BLANK
CASING: 0 to 26
ft.

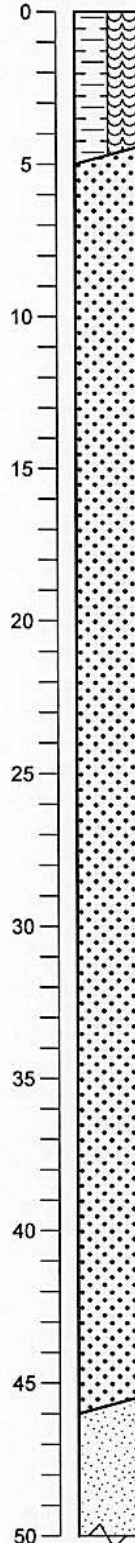
BENTONITE-
CEMENT SEAL: 0
to 18.5 ft.

BENTONITE-
PELLET SEAL:
18.5 to 21 ft.

Lonestar #2/12
SANDPACK: 21 to
58 ft.

5 DIA. SLOTTED
(0.02) SCREEN:
26 to 56 ft.

Depth (ft.)
Sample



VERY DARK GRAY SANDY ORGANIC
SOIL (OL/OH) (2.5Y 3/1) Loose, dry, 70%
soil, 30% sand

@ 3 ft.: Change to BROWN (10YR 5/3),
35% sand

YELLOWISH BROWN WELL GRADED
SAND (SW) (10YR 5/4) Loose, dry, 100%
fine to coarse sand

@ 8 ft.: Change to LIGHT YELLOWISH
BROWN (10YR 6/4), 95% sand, 5% silt

@ 11 ft.: Similar to above

@ 13 ft.: Change to Decrease in grain size

@ 17 ft.: Similar to above

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above

@ 31 ft.: Similar to above

@ 38 ft.: Similar to above, moist

@ 40 ft.: Similar to above

BROWNISH YELLOW POORLY GRADED
SAND (SP) (10YR 6/6) Very dense, moist,
95% fine sand, 5% silt

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-42-A
OUCTP

PLATE

Fort Ord, California

A53

DRAWN
PCB

JOB NUMBER
55596 001701

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11/04

REVISED DATE

Completion Date 11/15/2000

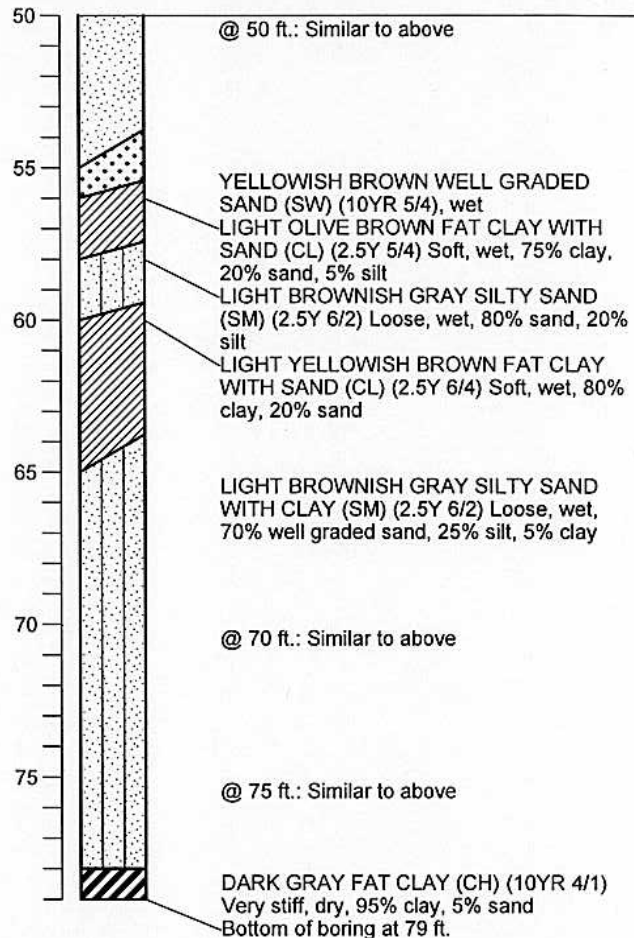
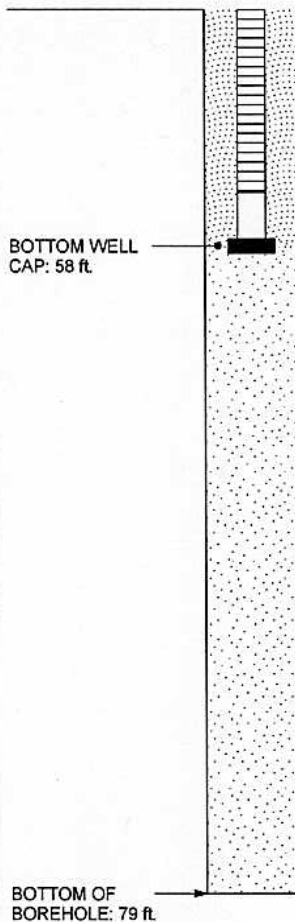
Drilling Method Hollow Stem Auger

Logged by

Surface Elevation 87.65 ft. Hole Dia. 12 in.

Northing 2143291.792 Easting 5744809.871

Depth (ft.)
Sample



BORING_WELL_OUCTP_OUCTPV8.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-42-A
OUCTP

Fort Ord, California

DRAWN
PCB

JOB NUMBER
55596 001701

APPROVED
MDT/cmr

DATE
11/04

REVISED DATE

A53

PLATE

Top of PVC Casing
Elev. 132.85 ft.
CHRISTY
BOX

GROUND SURFACE

Top of casing at
0.5 ft. below
ground level

7 in. DIAMETER
BOREHOLE: 0 to
217 ft.

3 DIAMETER
SCHEDULE 40
PVC BLANK
CASING: -0.5 to
180 ft.

BENTONITE-
CEMENT SEAL: 0
to 25 ft.

BENTONITE
SLURRY: 25 to
169 ft.

Completion Date 3/3/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 133.22 ft. Hole Dia. 7 in.

Northing 2140678.01 Easting 5746978.17

Depth (ft.)
Sample

0
5
10
15
20
25
30
35
40
45

VERY DARK GRAY SILTY SAND (SM)
(10YR 3/1) Loose, moist, 80% fine to coarse
sand, 20% silt

VERY DARK GRAY WELL GRADED SAND
(SW) (10YR 3/1) Loose, dry, 90% fine to
coarse sand, 10% silt
@ 5 ft.: Change to DARK BROWN (10YR
3/3)

@ 8 ft.: Change to YELLOWISH BROWN
(10YR 5/4) 95% fine to coarse sand, 5% silt

@ 10 ft.: Similar to above

@ 15 ft.: Similar to above

@ 20 ft.: Similar to above

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above

@ 35 ft.: Similar to above

@ 38 ft.: Change to DARK YELLOWISH
BROWN (10YR 4/4)

@ 40 ft.: Similar to above

YELLOWISH BROWN POORLY GRADED
SAND (SP) (10YR 5/6) Loose, dry, 95% fine
to medium sand, 5% silt

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-43-180
OUCTP

PLATE

A54

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED
MDT / car

DATE
11/04

REVISED DATE

Completion Date 3/3/2003

Drilling Method Sonic

Logged by D. Browne

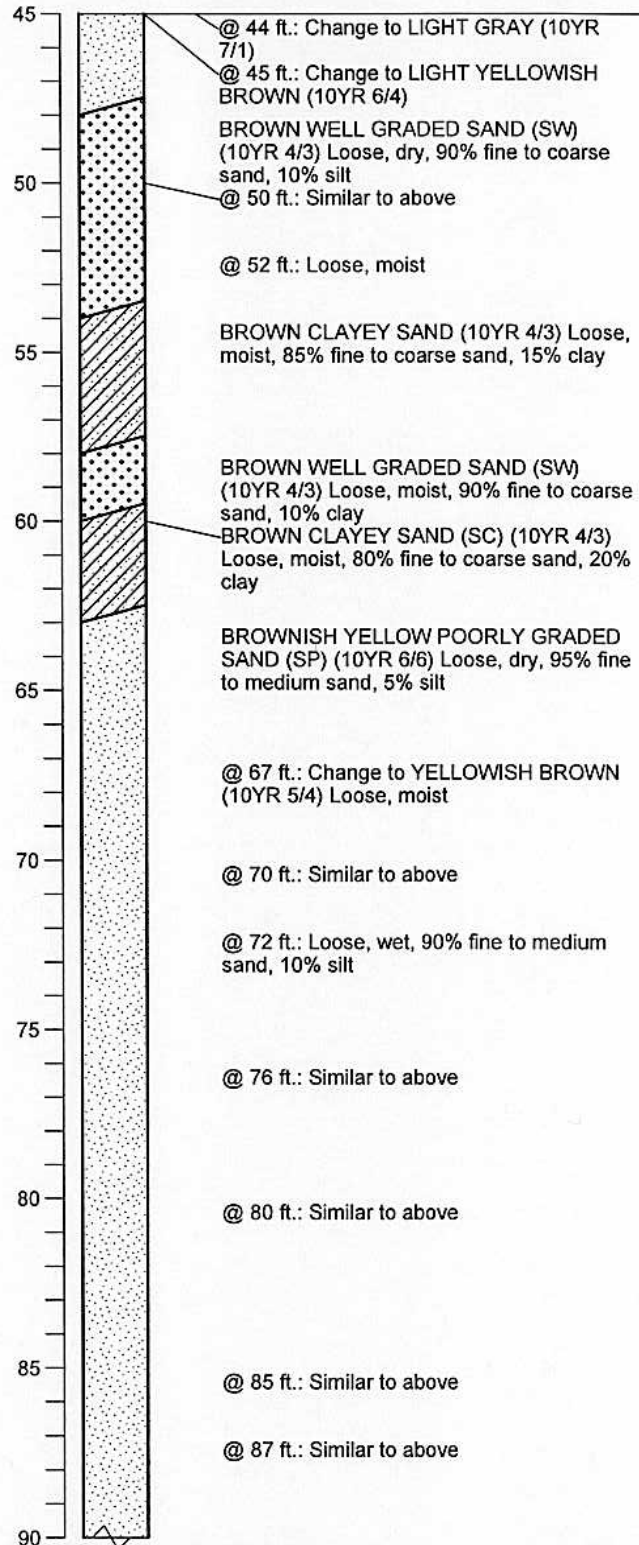
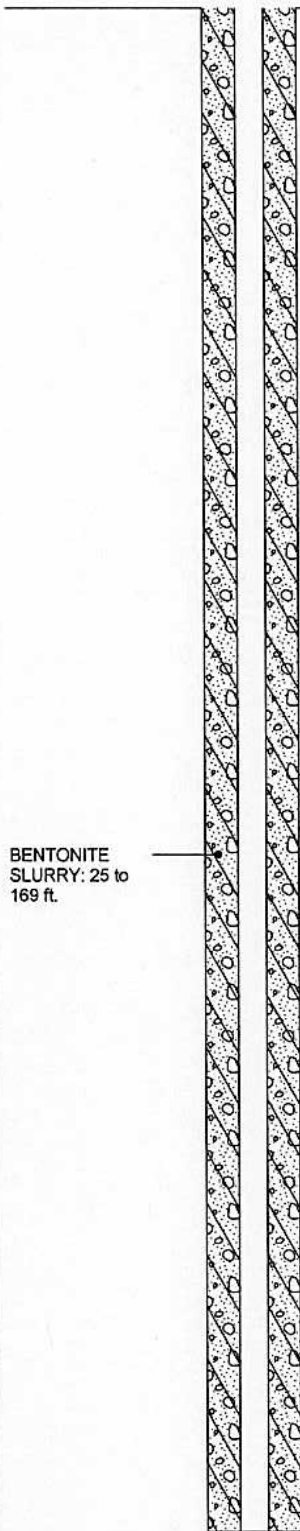
Surface Elevation 133.22 ft.

Hole Dia. 7 in.

Northing 2140678.01

Easting 5746978.17

Depth (ft.)
Sample



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

BENTONITE
SLURRY: 25 to
169 ft.

Well Construction Details and
Log of Boring MW-BW-43-180
OUCTP

PLATE



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JOB NUMBER
55596 001701

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DATE
11/04

REVISED DATE

A54

Completion Date 3/3/2003

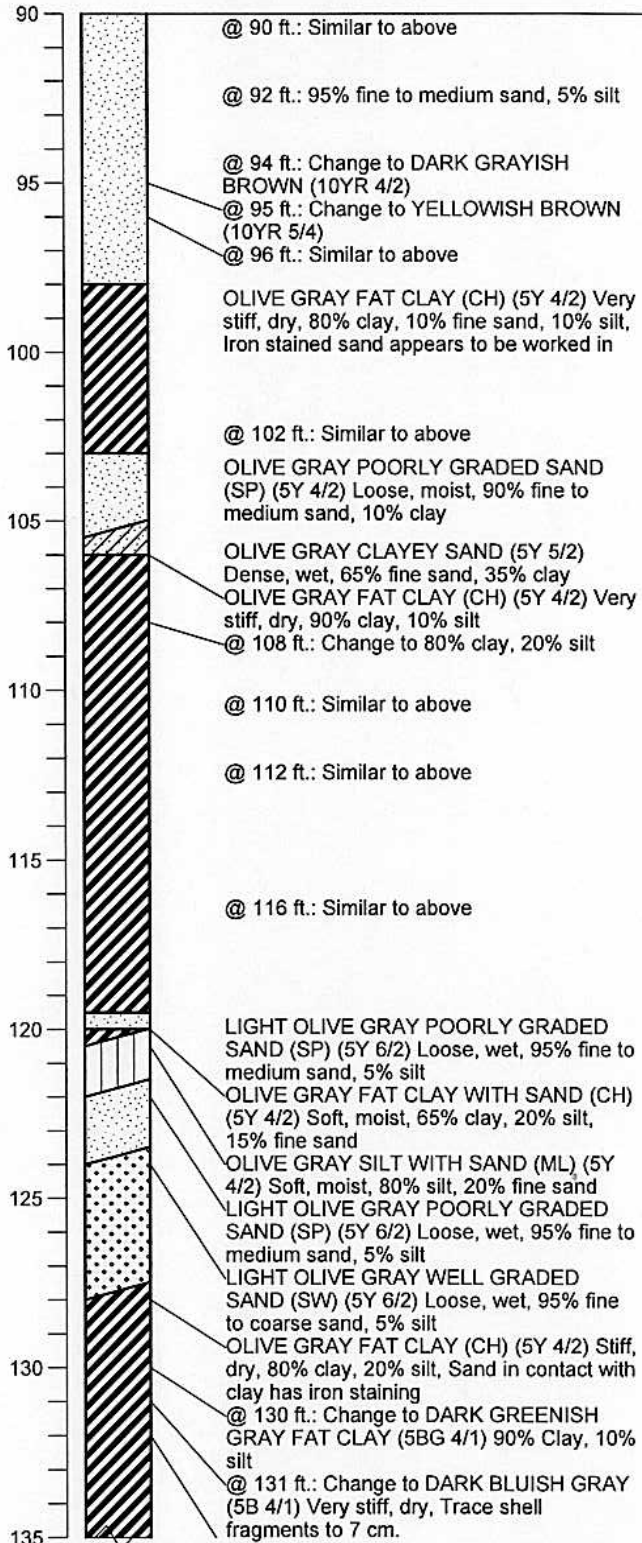
Drilling Method Sonic

Logged by D. Browne

Surface Elevation 133.22 ft. Hole Dia. 7 in.

Northing 2140678.01 Easting 5746978.17

Depth (ft.)
Sample



BENTONITE
SLURRY: 25 to
169 ft.

Well Construction Details and
Log of Boring MW-BW-43-180
OUCTP

PLATE



MACTEC

Fort Ord, California

DRAWN
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JOB NUMBER
55596 001701

APPROVED

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DATE
11/04

REVISED DATE

A54

Completion Date 3/3/2003

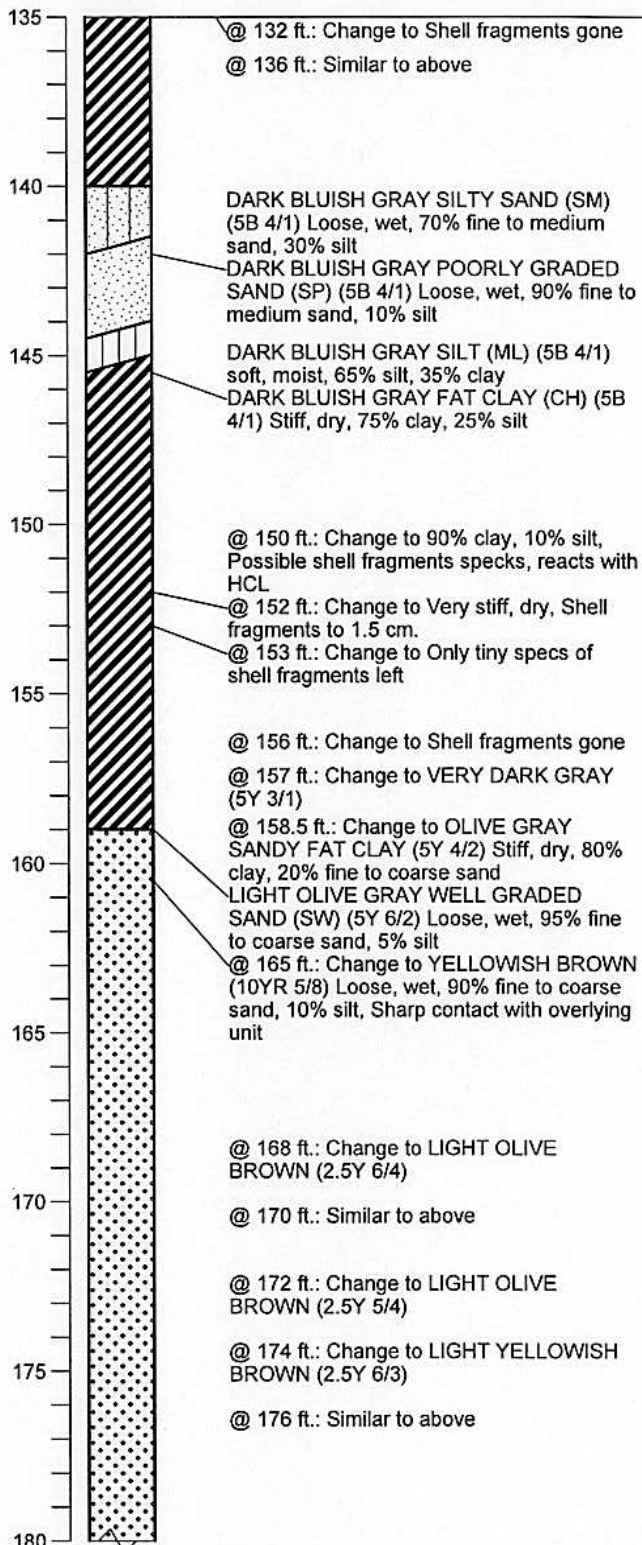
Drilling Method Sonic

Logged by D. Browne

Surface Elevation 133.22 ft. Hole Dia. 7 in.

Northing 2140678.01 Easting 5746978.17

Depth (ft.)
Sample



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-43-180
OUCTP

PLATE

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

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DATE
11/04

REVISED DATE

A54

Completion Date 3/3/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 133.22 ft.

Hole Dia. 7 in.

Northing 2140678.01

Easting 5746978.17

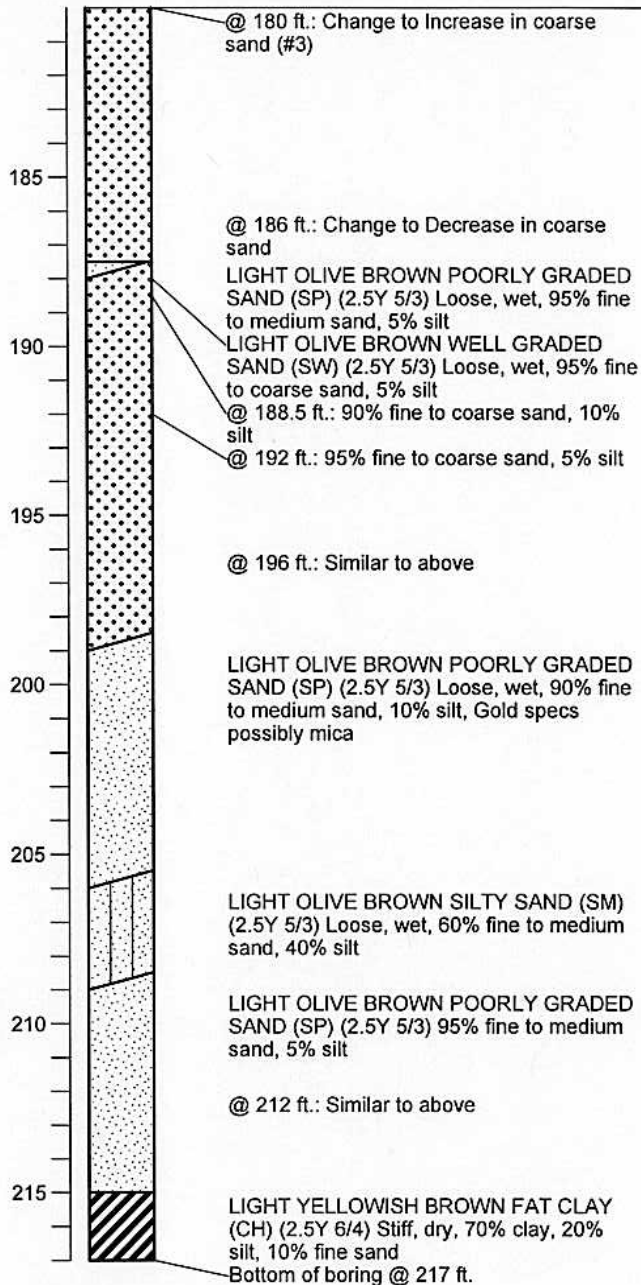
Depth (ft.)
Sample

LONESTAR # 2/12
SANDPACK: 177
to 201 ft.

3 in. DIAMETER
SLOTTED (0.02
in.) SCREEN: 180
to 200 ft.

End cap to bottom
of screen: 7 in.
BOTTOM WELL
CAP: 200 ft.

BENTONITE
CHIPS: 200 to 217
ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-43-180
OUCTP

PLATE

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

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MDT / Car

DATE
11/04

REVISED DATE

A54

Top of PVC Casing
Elev. 60.70 ft.

GROUND SURFACE

BENTONITE-
CEMENT SEAL: 0
to 5 ft.

5 in. DIAMETER
SCHEDULE 80
PVC BLANK
CASING: +2 to
15.2 ft.

BENTONITE
PELLET SEAL: 5
to 10 ft.

#3 Lapis Lustré
SANDPACK: 10 to
36 ft.

5 in. DIAMETER
SLOTTED (0.020
in.) SCREEN: 15
to 35 ft.

Completion Date 5/24/2001

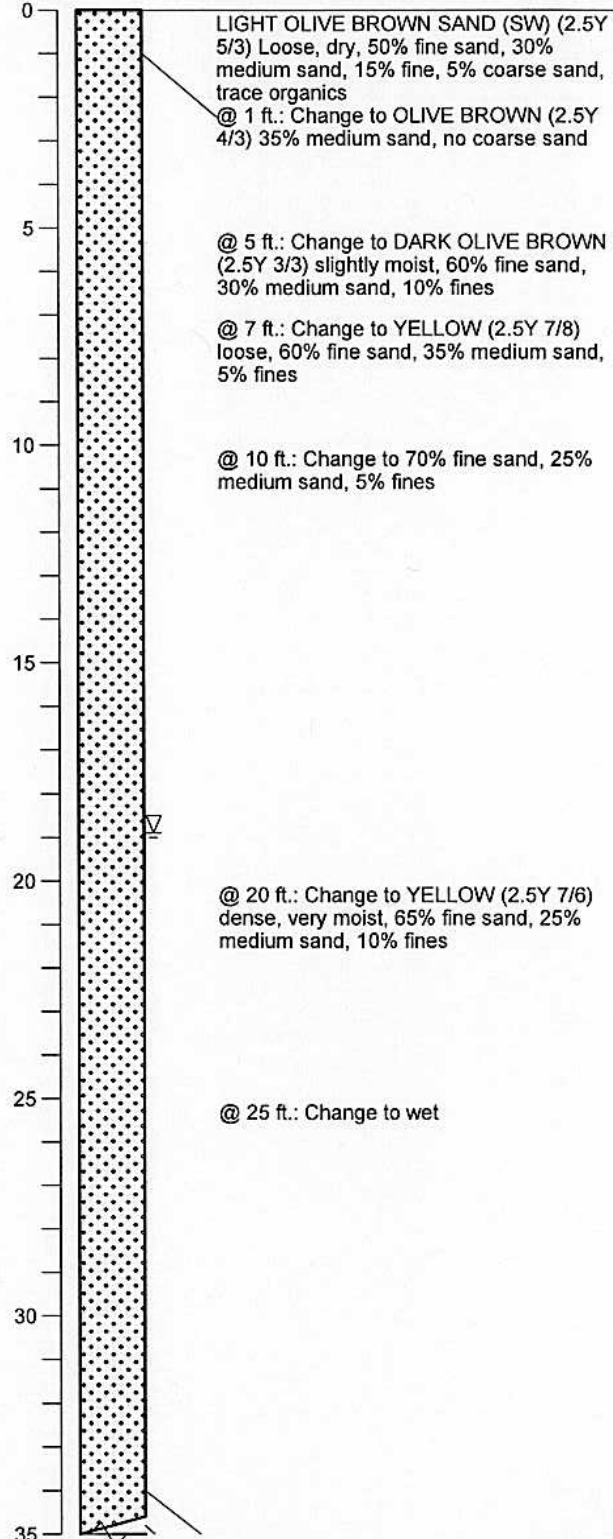
Drilling Method Hollow Stem Auger

Logged by

Surface Elevation 58.70 ft. Hole Dia. 12 in.

Northing 2143608.37 Easting 5744303.18

Depth (ft.)
Sample



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

DRAWN
PCB

JOB NUMBER
55596 001701

Fort Ord, California

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DATE
11/04

REVISED DATE

Well Construction Details and
Log of Boring MW-BW-43-A
OUCTP

PLATE

A55

Completion Date 5/24/2001

Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 58.70 ft. Hole Dia. 12 in.

Northing 2143608.37 Easting 5744303.18

BOTTOM WELL
CAP: 36 ft.
Hole cleaned out to
36 ft.

Depth (ft.)
Sample

35
40
45
50
55
60

@ 34-36 ft.: Driller notes change - possible clay layer
@ 35 ft.: Trace of mica
LIGHT OLIVE BROWN POORLY GRADED SAND (SP) (2.5Y 5/3) Medium dense, wet, 90% fine sand, 5% medium sand, 5% fines
Note: Sandy cuttings observed below 36 ft. were proven unreliable based on clay adhered to 8 in. auger flights upon retrieval. As such, only driller notes are included here. The borehole collapsed to 22 ft. BGS after the 8 in. augers were removed.
@ 39 ft.: Driller notes change - possible stiff clay

@ 51-52 ft.: Driller notes change - possible stiff clay

@ 58.5 ft.: Driller notes possible clay layer

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-43-A
OUCTP

Fort Ord, California

DRAWN
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JOB NUMBER
55596 001701

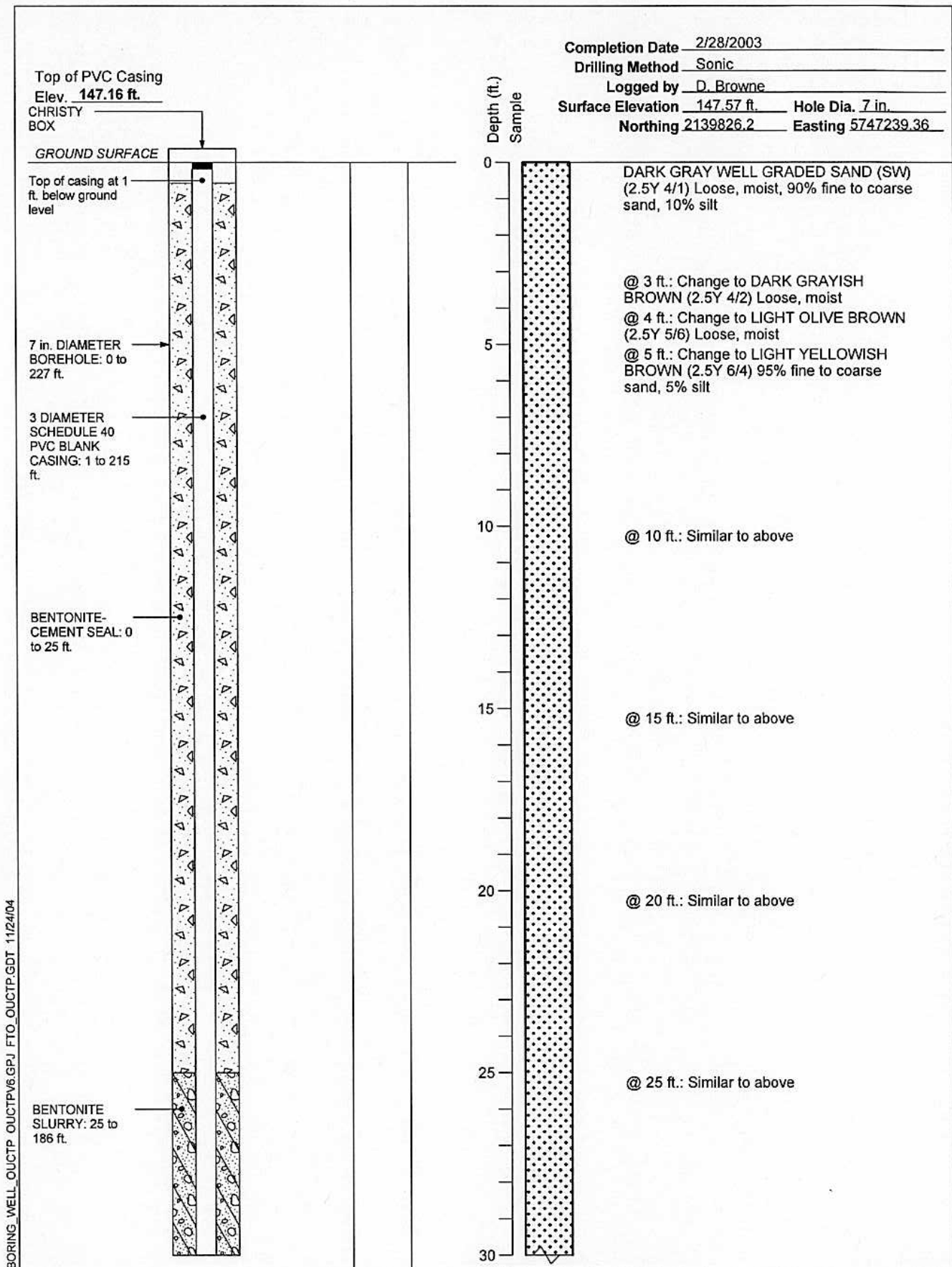
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A55

PLATE



BORING WELL OUCTP OUCTPV6.GPJ FTO OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-44-180
OUCTP

PLATE

Fort Ord, California

A56

DRAWN
MBP

JOB NUMBER
55596 001701

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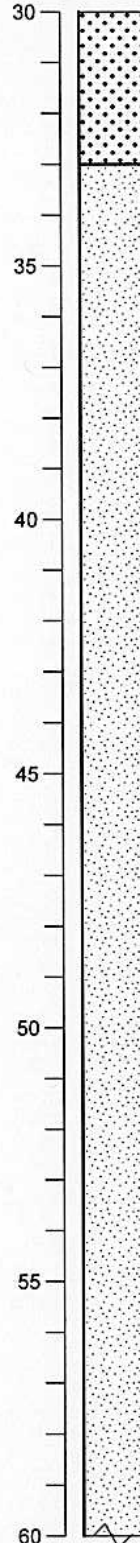
DATE
11/04

REVISED DATE

Completion Date 2/28/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 147.57 ft. Hole Dia. 7 in.
 Northing 2139826.2 Easting 5747239.36

Depth (ft.)
 Sample

BENTONITE
 SLURRY: 25 to
 186 ft.



@ 30 ft.: Similar to above

OLIVE YELLOW POORLY GRADED SAND
 (SP) (2.5Y 6/4) Loose, dry, 95% fine to
 medium sand, 5% silt

@ 35 ft.: Similar to above

@ 40 ft.: Similar to above

@ 45 ft.: Similar to above

@ 49 ft.: Change to DARK YELLOWISH
 BROWN (10YR 4/6) Loose, dry

@ 52 ft.: Change to YELLOWISH BROWN
 POORLY GRADED SAND (SP) (10YR 5/6)
 Loose, dry, 95% fine to medium sand, 5%
 silt

@ 56 ft.: Change to BROWNISH YELLOW
 (10YR 5/8)

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-44-180
 OUCTP

PLATE

Fort Ord, California

A56

DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED
NOT / cm

DATE
 11/04

REVISED DATE

Completion Date 2/28/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 147.57 ft.

Hole Dia. 7 in.

Northing 2139826.2

Easting 5747239.36

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
186 ft.

60

@ 60 ft.: Change to LIGHT YELLOWISH
BROWN (10YR 6/4)

65

@ 65 ft.: Similar to above

70

@ 70 ft.: Similar to above

75

@ 74 ft.: Change to YELLOWISH BROWN
(10YR 5/6) Loose, wet

80

@ 80 ft.: Similar to above

85

@ 85 ft.: Similar to above

90

@ 87 ft.: Change to LIGHT YELLOWISH
BROWN (2.5Y 6/4)

BORING_WELL_OUCTP_OUCTPV8.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-44-180
OUCTP

PLATE

Fort Ord, California

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JOB NUMBER
55596 001701

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DATE
11/04

REVISED DATE

A56

Completion Date 2/28/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 147.57 ft.

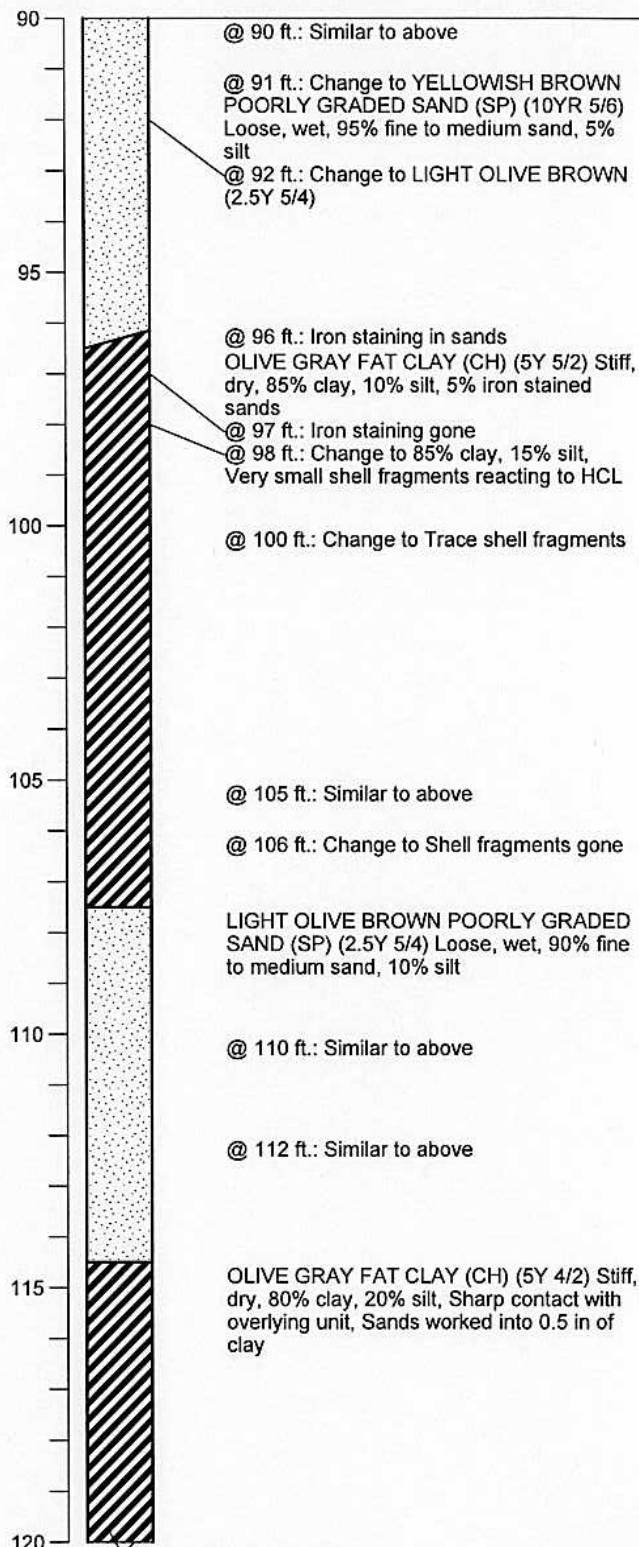
Hole Dia. 7 in.

Northing 2139826.2

Easting 5747239.36

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
186 ft.



BORING WELL OUCTP OUCTP&GPJ FTO OUCTP GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-44-180
OUCTP

PLATE

Fort Ord, California

A56

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED
NOT / cm

DATE
11/04

REVISED DATE

Completion Date 2/28/2003

Drilling Method Sonic

Logged by D. Browne

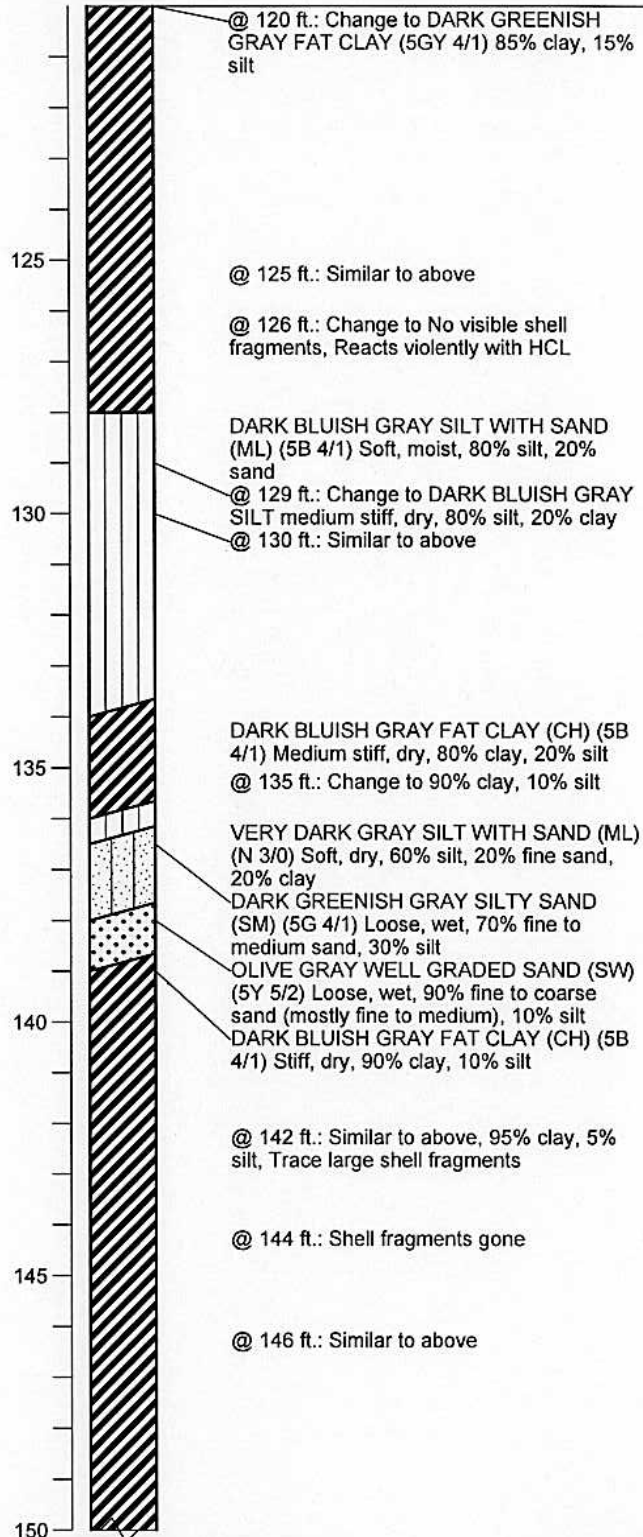
Surface Elevation 147.57 ft.

Hole Dia. 7 in.

Northing 2139826.2 Easting 5747239.36

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
186 ft.



BORING WELL OUCTP OUCTPV6.GPJ FTO OUCTP.GDT 11/24/04



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DRAWN
MBP

JOB NUMBER
55596 001701

Well Construction Details and
Log of Boring MW-BW-44-180
OUCTP

Fort Ord, California

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DATE
11/04

REVISED DATE

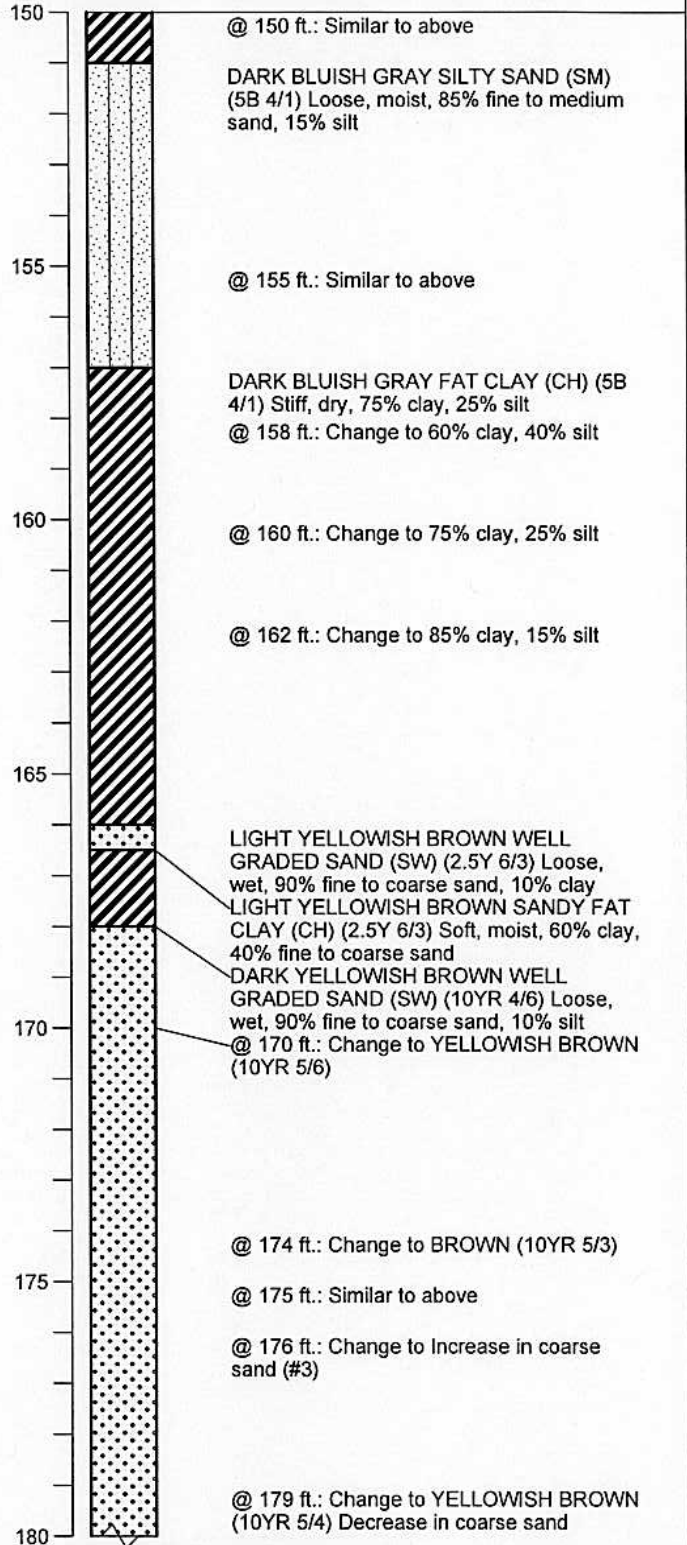
A56

PLATE

Completion Date 2/28/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 147.57 ft. Hole Dia. 7 in.
 Northing 2139826.2 Easting 5747239.36

Depth (ft.)
 Sample

BENTONITE
 SLURRY: 25 to
 186 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-44-180
 OUCTP

PLATE

Fort Ord, California

DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED

MBP / car

DATE
 11/04

REVISED DATE

A56

Completion Date 2/28/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 147.57 ft.

Hole Dia. 7 in.

Northing 2139826.2

Easting 5747239.36

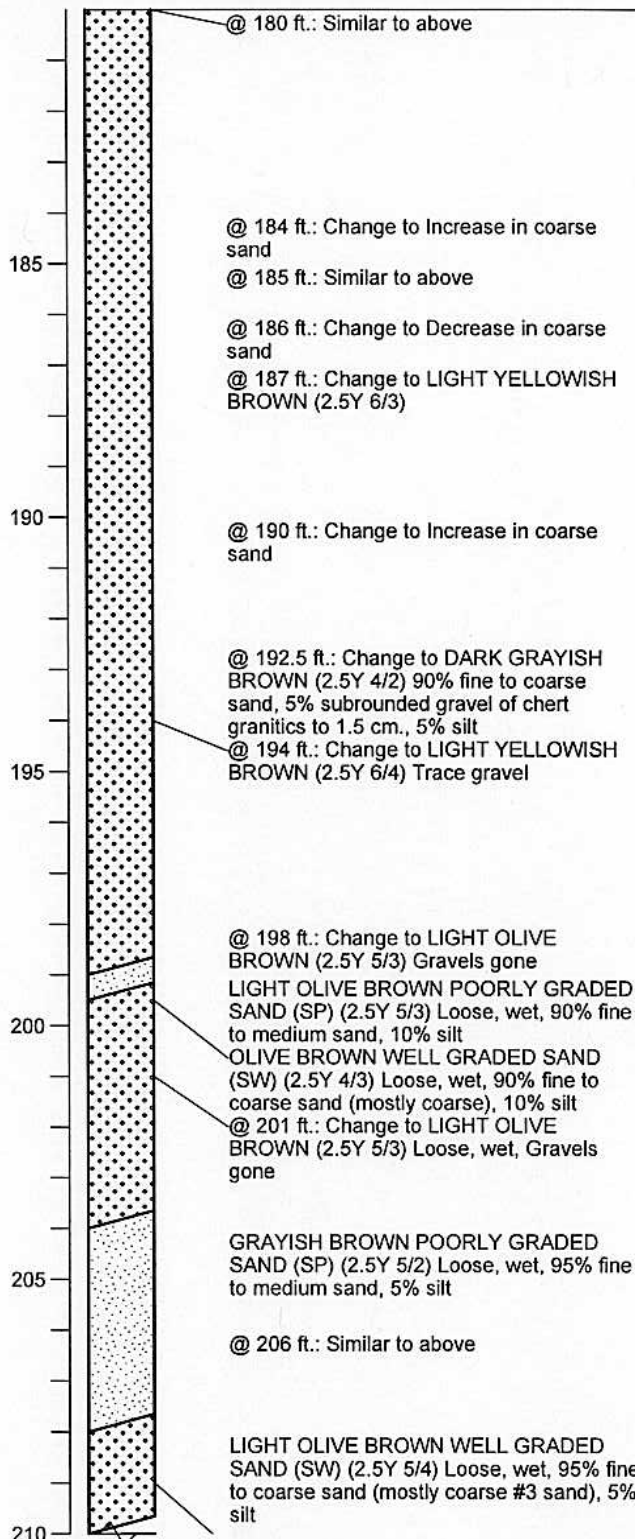
Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
186 ft.

BENTONITE
PELLET SEAL:
186 to 192 ft.

LONESTAR # 2/12
SANDPACK: 192
to 215 ft.

3 in. DIAMETER
SLOTTED (0.02
in.) SCREEN: 195
to 215 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-44-180
OUCTP

PLATE

Fort Ord, California

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JOB NUMBER
55596 001701

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DATE
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A56

Completion Date 2/28/2003

Drilling Method Sonic

Logged by D. Browne

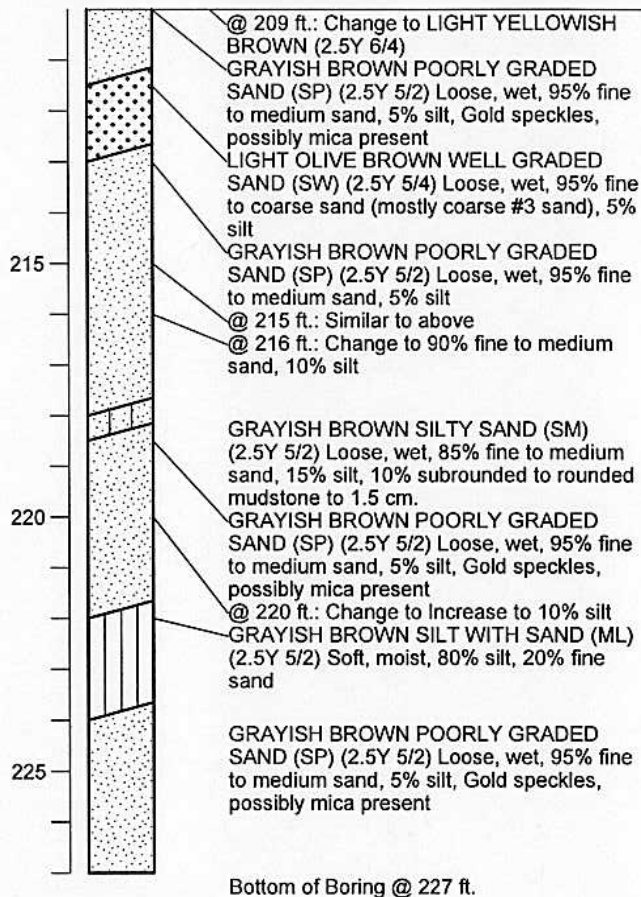
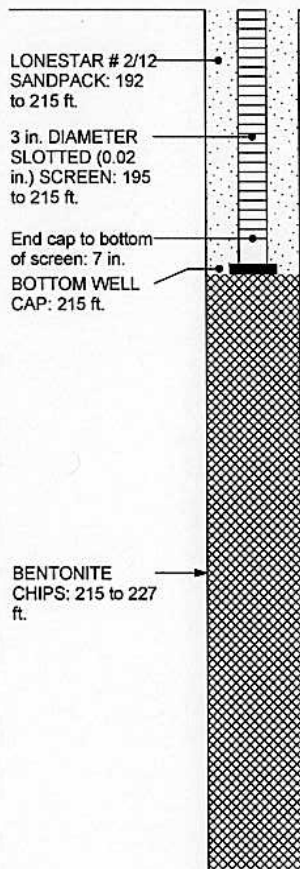
Surface Elevation 147.57 ft.

Hole Dia. 7 in.

Northing 2139826.2

Easting 5747239.36

Depth (ft.)
Sample



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-44-180
OUCTP

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11/04

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Top of PVC Casing
Elev. 79.30 ft.

GROUND SURFACE

5 in. DIAMETER
SCHEDULE 80
PVC BLANK
CASING: +1.8 to
52.3 ft.
12 in. DIAMETER
BOREHOLE: +1.8
to 83 ft.

BENTONITE-
CEMENT SEAL: 0
to 42 ft.

Completion Date 5/25/2001

Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 77.50 ft. Hole Dia. 12 in.

Northing 2144011.343 Easting 5743652.176

Depth (ft.)
Sample

0
5
10
15
20
25
30
35

BROWNISH YELLOW WELL GRADED
SAND (SW) (10YR 6/6) Loose, dry, 50%
fine sand, 30% medium sand, 10% fines,
10% organics, trace coarse sand
@ 1 ft.: Change to DARK YELLOWISH
BROWN (10YR 4/6)

@ 5 ft.: Change to DARK YELLOWISH
BROWN (10YR 3/4) 50% fine sand, 40%
subangular medium sand, 10% silt, no odor

@ 7 ft.: Change to OLIVE YELLOW (2.5Y
6/6)

@ 10 ft.: Change to LIGHT YELLOWISH
BROWN (2.5Y 6/3) 60% subangular
medium sand, 40% fine sand

@ 15 ft.: Change to OLIVE YELLOW (2.5Y
6/6) subrounded medium sand

@ 20 ft.: Trace coarse sand

@ 25 ft.: Change to 65% fine sand, 30%
medium sand, 5% silt, trace mica

@ 30 ft.: Change to 70% fine sand, 25%
medium sand, 5% silt

BORING_WELL_OUCTP_OUCTP6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-44-A
OUCTP

PLATE

Fort Ord, California

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JOB NUMBER
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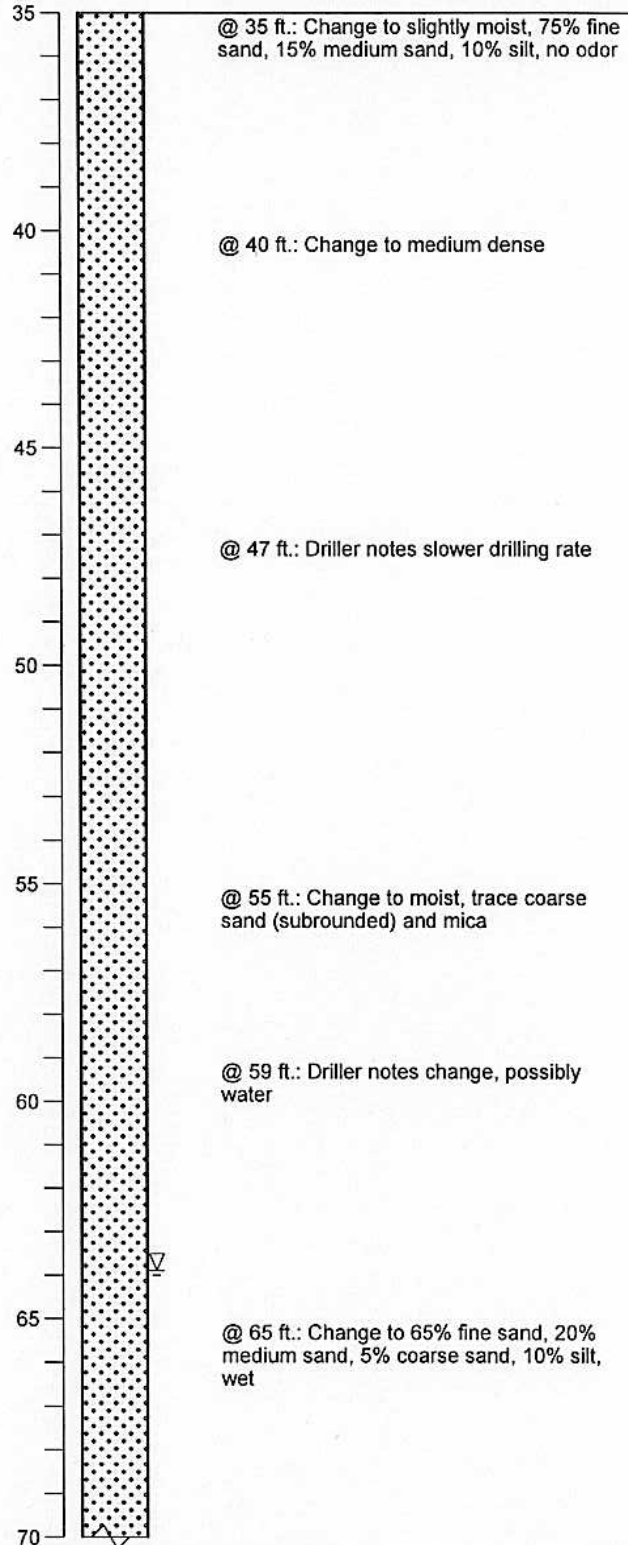
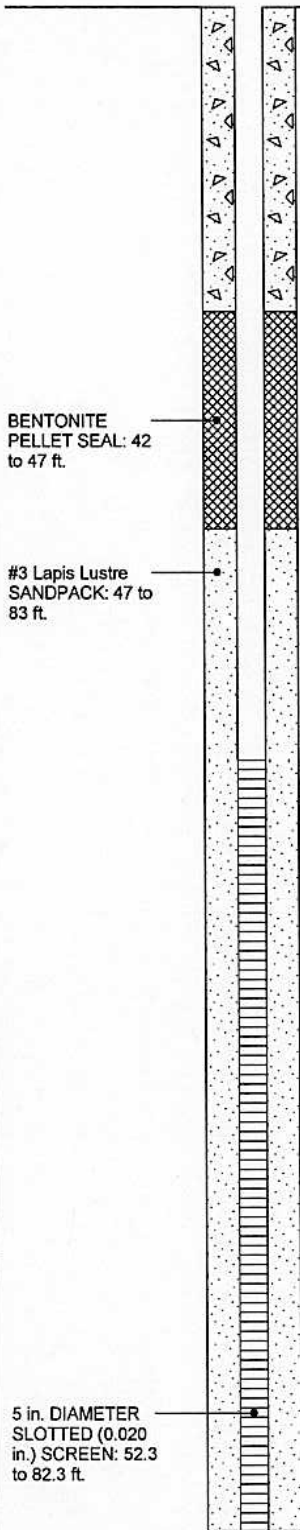
DATE
11/04

REVISED DATE

A57

Completion Date 5/25/2001
 Drilling Method Hollow Stem Auger
 Logged by _____
 Surface Elevation 77.50 ft. Hole Dia. 12 in.
 Northing 2144011.343 Easting 5743652.176

Depth (ft.)
 Sample



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MW-BW-44-A
 OUCTP

PLATE

Fort Ord, California

A57

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 PCB

JOB NUMBER
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DATE
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REVISED DATE

Completion Date 5/25/2001
 Drilling Method Hollow Stem Auger
 Logged by _____
 Surface Elevation 77.50 ft. Hole Dia. 12 in.
 Northing 2144011.343 Easting 5743652.176

Depth (ft.)
 Sample

70

75

80

BOTTOM WELL
 CAP: 83 ft.
 Hole cleaned out to
 83 ft.

@ 75 ft.: Driller notes possible gravel

@ 80 ft.: Driller notes slower drilling

OLIVE FAT CLAY (CH) (5Y 5/4) 80% clay,
 20% fine sand
 Bottom of boring at 83 ft.

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MW-BW-44-A
 OUCTP

Fort Ord, California

PLATE

A57

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 PCB

JOB NUMBER
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DATE
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Top of PVC Casing
Elev. 140.03 ft.
CHRISTY
BOX

GROUND SURFACE

Top of casing at 1
ft. below ground
level

7 in. DIA.
BOREHOLE: 0 to
196 ft.

3 in. DIA.
SCHEDULE 80
PVC BLANK
CASING: 1 to
175.5 ft.

BENTONITE
CEMENT SEAL: 0
to 25 ft.

BENTONITE
SLURRY: 25 to
168 ft.

Completion Date 2/24/2003

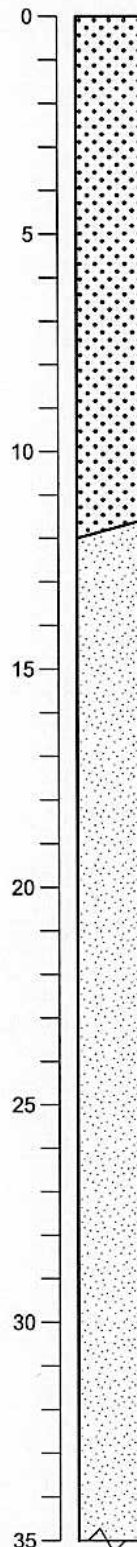
Drilling Method Sonic

Logged by D. Browne

Surface Elevation 140.93 ft. Hole Dia. 7 in.

Northing 2139732.89 Easting 5747773.43

Depth (ft.)
Sample



VERY DARK GRAY WELL GRADED SAND
(SW) (2.5Y 3/1) Loose, Dry, 90% fine to
coarse sand, 10% silt

@ 5 ft.: Similar to above

@ 8 ft.: Change to DARK GRAYISH
BROWN (10YR 4/2) Loose, dry

@ 10 ft.: Change to BROWN (10YR 4/3)

YELLOWISH BROWN POORLY GRADED
SAND (SP) (10YR 5/6) Loose, dry, 95% fine
to medium sand, 5% silt

@ 15 ft.: Similar to above

@ 20 ft.: Similar to above

@ 25 ft.: Similar to above

@ 28 ft.: Change to BROWNISH YELLOW
(10YR 6/6)

@ 30 ft.: Similar to above

@ 32 ft.: Similar to above

BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 1/31/05



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JOB NUMBER
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Well Construction Details and
Log of Boring MW-BW-45-180
OUCTP

Fort Ord, California

APPROVED
MDT / ur

DATE
1/05

REVISED DATE

A58

PLATE

Completion Date 2/24/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 140.93 ft. Hole Dia. 7 in.

Northing 2139732.89 Easting 5747773.43

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
168 ft.

35
40
45
50
55
60
65
70

@ 25 ft.: Similar to above

@ 40 ft.: Change to DARK YELLOWISH
BROWN (10YR 5/6)

@ 45 ft.: Similar to above

@ 50 ft.: Similar to above

@ 52 ft.: Change to BROWNISH YELLOW
(10YR 6/6)

@ 60 ft.: Similar to above

@ 65 ft.: Similar to above

@ 67 ft.: Change to Moist

@ 68 ft.: Change to Wet

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/31/05



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MBP

JOB NUMBER
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Well Construction Details and
Log of Boring MW-BW-45-180
OUCTP

Fort Ord, California

APPROVED

MDT / cm

DATE
1/05

REVISED DATE

PLATE

A58

Completion Date 2/24/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 140.93 ft.

Hole Dia. 7 in.

Northing 2139732.89

Easting 5747773.43

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
168 ft.

70
75
80
85
90
95
100
105

@ 72 ft.: Similar to above

@ 74 ft.: Change to DARK YELLOWISH
BROWN (10YR 4/6)

@ 80 ft.: Similar to above

LIGHT OLIVE BROWN SILTY SAND (SM)
(2.5Y 5/4) Loose, wet, 85% fine to medium
sand, 15% silt

YELLOWISH BROWN POORLY GRADED
SAND (SP) (10YR 5/6) Loose, wet, 95%
fine to coarse sand, 5% silt

LIGHT OLIVE BROWN FAT CLAY (CH)
(2.5Y 5/4) Stiff, dry, 85% clay, 15% silt, Iron
staining

@ 92 ft.: Change to 90% clay, 10% silt

LIGHT OLIVE BROWN CLAYEY SAND
(SC) (2.5Y 5/3) Medium stiff, moist, 80%
fine to medium sand, 20% clay

LIGHT OLIVE BROWN POORLY GRADED
SAND (SP) (2.5Y 5/3) Loose, moist, 90%
fine to medium sand, 10% silt

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/31/05



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JOB NUMBER
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Well Construction Details and
Log of Boring MW-BW-45-180
OUCTP

Fort Ord, California

APPROVED

MDT / cm

DATE
1/05

REVISED DATE

PLATE

A58

Completion Date 2/24/2003

Drilling Method Sonic

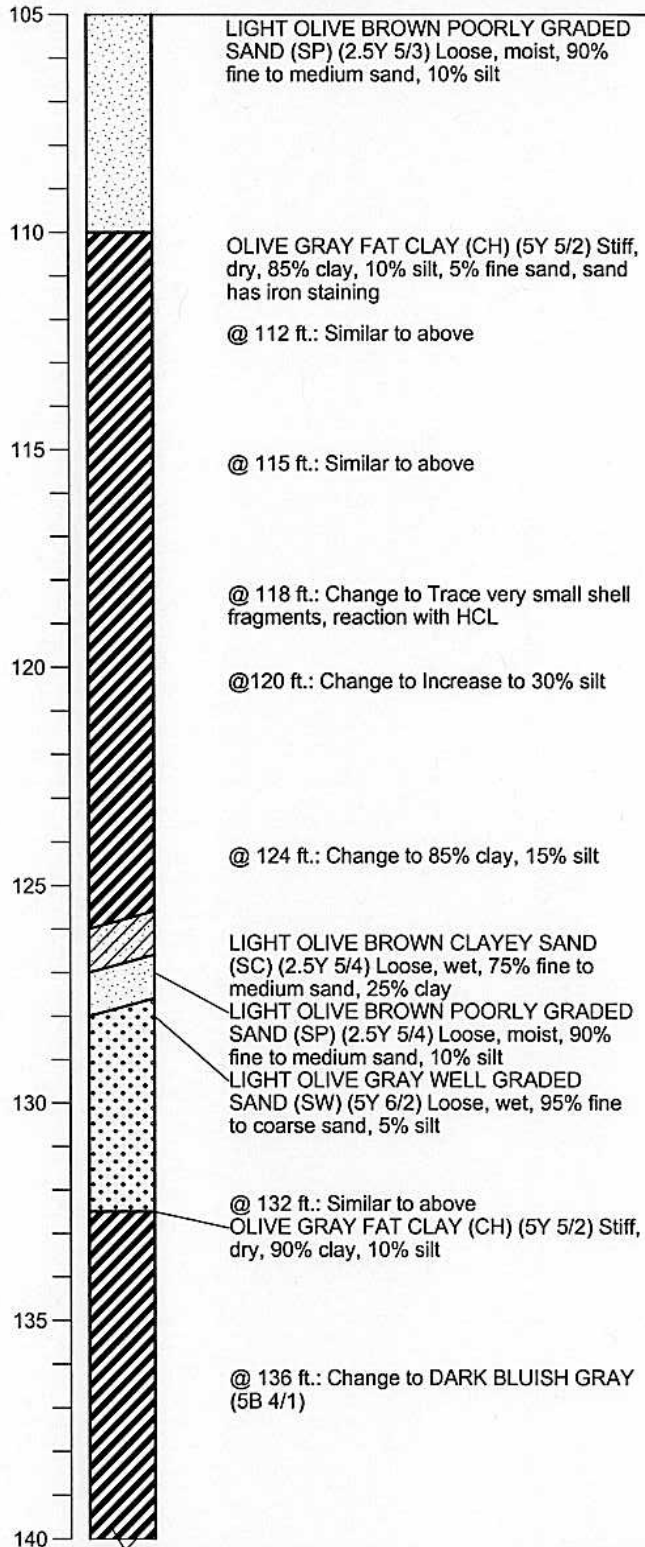
Logged by D. Browne

Surface Elevation 140.93 ft. Hole Dia. 7 in.

Northing 2139732.89 Easting 5747773.43

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
168 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/31/05



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JOB NUMBER
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Well Construction Details and
Log of Boring MW-BW-45-180
OUCTP

Fort Ord, California

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DATE
1/05

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A58

PLATE

Completion Date 2/24/2003

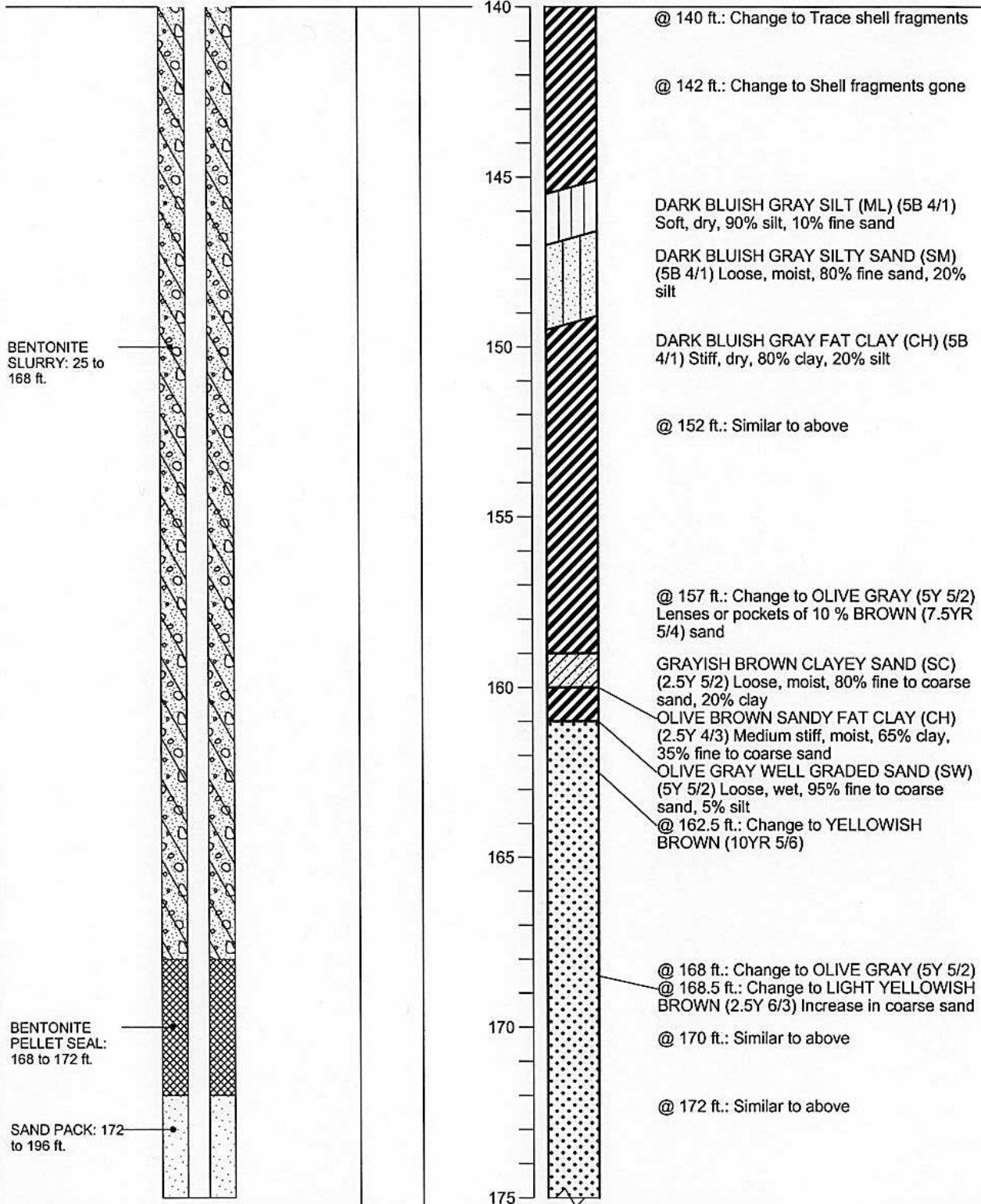
Drilling Method Sonic

Logged by D. Browne

Surface Elevation 140.93 ft. Hole Dia. 7 in.

Northing 2139732.89 Easting 5747773.43

Depth (ft.)
Sample



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/31/05



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JOB NUMBER
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Well Construction Details and
Log of Boring MW-BW-45-180
OUCTP

Fort Ord, California

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DATE
1/05

REVISED DATE

A58

PLATE

Completion Date 2/24/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 140.93 ft. Hole Dia. 7 in.

Northing 2139732.89 Easting 5747773.43

Depth (ft.)
Sample

3 in. DIA.
SLOTTED (0.02
in.) SCREEN:
175.5 to 195.5 ft.

BOTTOM WELL
CAP: 196 ft.

175

180

185

190

195

@ 175 ft.: Change to LIGHT OLIVE
BROWN (2.5Y 5/4)

@ 176.5 ft.: Change to OLIVE GRAY (5Y
5/2)

@ 178 ft.: Change to LIGHT YELLOWISH
BROWN (2.5Y 6/3) #3 sand

@ 180 ft.: Similar to above

@ 182 ft.: Change to 90% fine to coarse
sand, 5% subrounded gravels of chert and
quartz to 2 cm., 5% silt

@ 184 ft.: Change to Trace gravels

@ 186 ft.: Change to OLIVE BROWN (2.5Y
4/3)

@ 188 ft.: Change to LIGHT OLIVE
BROWN (2.5Y 5/4)

@ 190 ft.: Change to Decrease in coarse
sand, no gravels

@ 192 ft.: Change to LIGHT YELLOWISH
BROWN (2.5Y 6/3) Loose, wet, Trace
gravels, Increase in coarse sand

@ 194 ft.: Change to Decrease in coarse
sand

Bottom of Boring @ 197 ft.

BORING_WELL_OUCTP_OUCTPV8.GPJ FTO_OUCTP.GDT 1/31/05



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Well Construction Details and
Log of Boring MW-BW-45-180
OUCTP

Fort Ord, California

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DATE
1/05

REVISED DATE

PLATE

A58

Top of PVC Casing
Elev. 77.40 ft.
CHRISTY
BOX

GROUND SURFACE

5 in. DIAMETER
SCHEDULE 80
PVC BLANK
CASING: -0.44 to
57 ft.

12 in. DIAMETER
BOREHOLE: 0 to
88 ft.

BENTONITE-
CEMENT SEAL: 0
to 46.5 ft.

Completion Date 5/14/2001

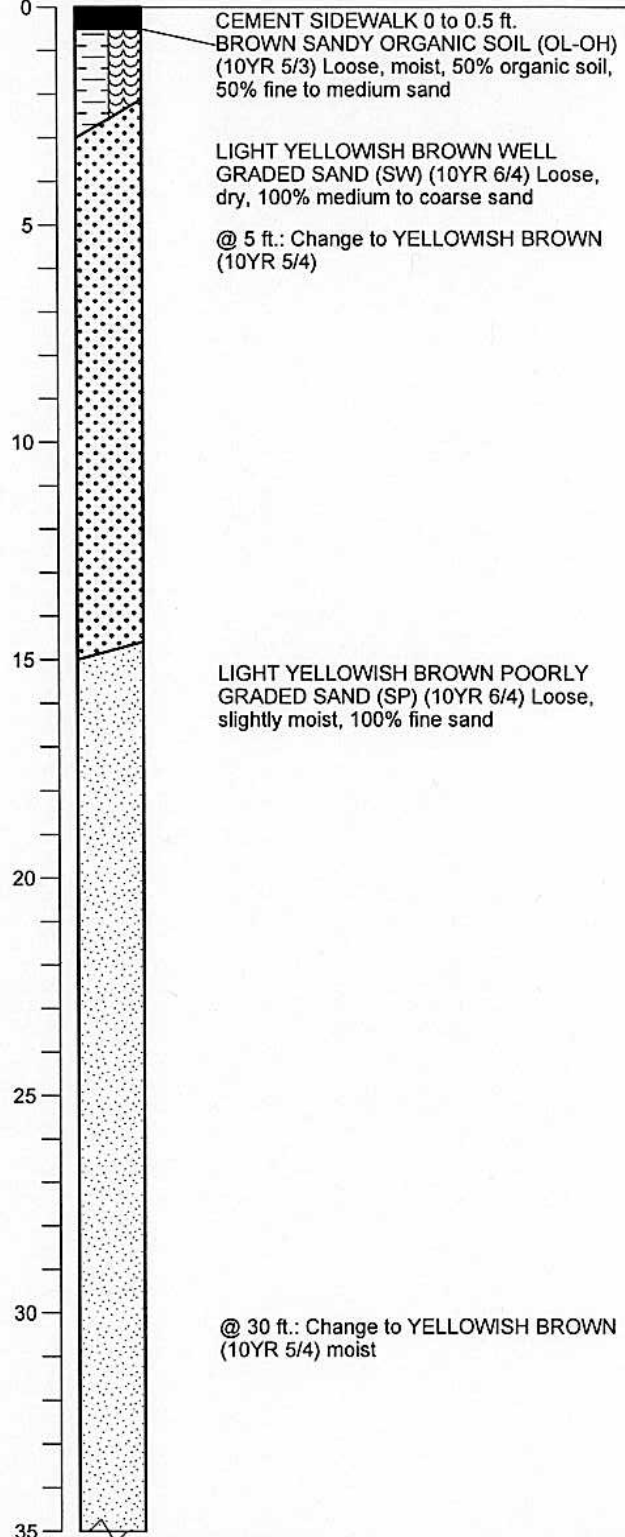
Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 77.84 ft. Hole Dia. 12 in.

Northing 2143734.628 Easting 5743655.455

Depth (ft.)
Sample



BORING WELL OUCTP OUCTPV6.GPJ FTO OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-45-A
OUCTP

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Fort Ord, California

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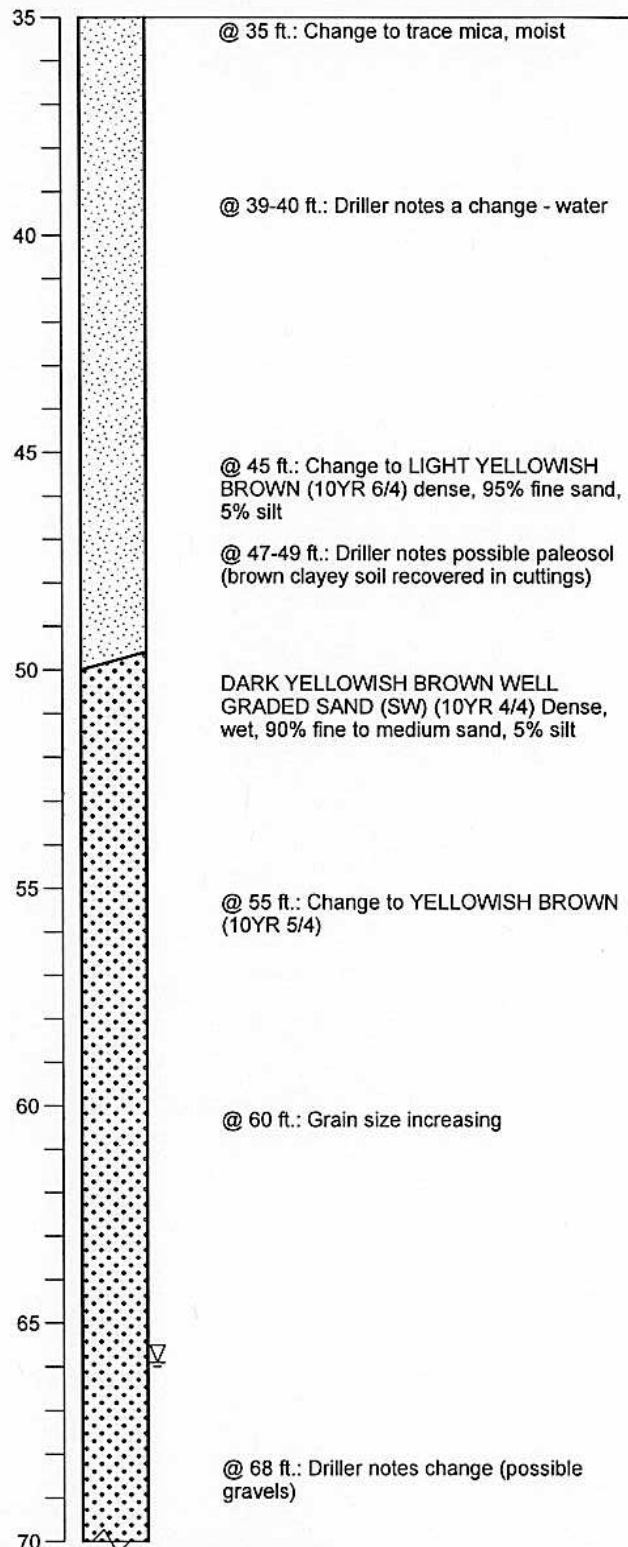
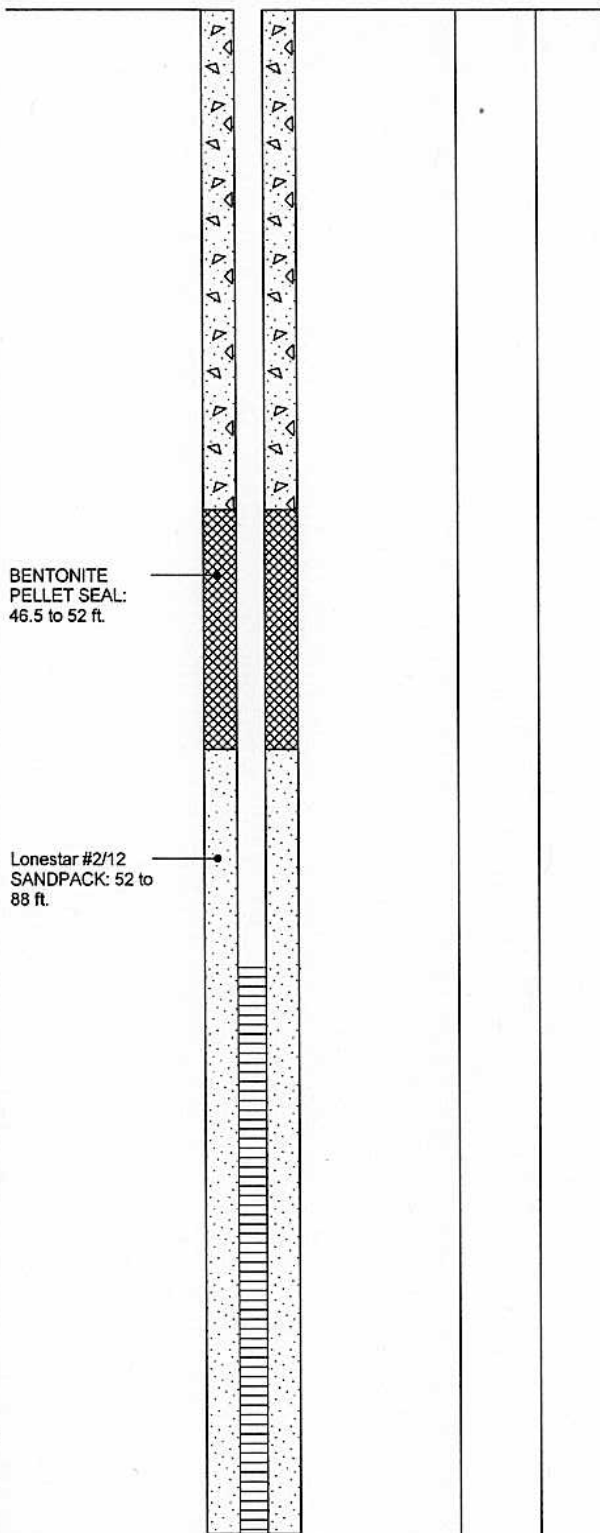
DATE
11/04

REVISED DATE

A59

Completion Date 5/14/2001
 Drilling Method Hollow Stem Auger
 Logged by _____
 Surface Elevation 77.84 ft. Hole Dia. 12 in.
 Northing 2143734.628 Easting 5743655.455

Depth (ft.)
Sample



BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-45-A
OUCTP

PLATE

Fort Ord, California

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JOB NUMBER
55596 001701

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MDT / cm

DATE
11/04

REVISED DATE

A59

Completion Date 5/14/2001

Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 77.84 ft. Hole Dia. 12 in.

Northing 2143734.628 Easting 5743655.455

Depth (ft.)
Sample

5 in. DIAMETER
SLOTTED (0.020
in.) SCREEN: 57
to 87 ft.

BOTTOM WELL
CAP: 88 ft.
Hole cleaned out to
88 ft.

70

75

80

85

@ 71 ft.: Change to 85% sand, 15% fine
gravel to 1 cm, trace shells

LIGHT OLIVE BROWN SANDY LEAN
CLAY WITH GRAVEL (CL) (2.5Y 5/4) Soft,
wet, 60% clay, 35% fine to coarse sand, 5%
gravels, trace shells
DARK YELLOWISH BROWN WELL
GRADED SAND (SW) (10YR 4/4) Dense,
wet, 85% fine to coarse sand, 10% silt, 5%
gravel (3-7 mm, occasional pebbles), trace
shells

OLIVE GRAY FAT CLAY (CH) (5Y 4/2)
Hard, moist
Bottom of boring at 88 ft.

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-45-A

OUCTP

Fort Ord, California

PLATE

A59

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11/04

REVISED DATE

Completion Date 5/10/2001

Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 68.02 ft.

Hole Dia. 12 in.

Northing 2143878.141

Easting 5743073.325

Top of PVC Casing

Elev. 67.72 ft.

CHRISTY
BOX

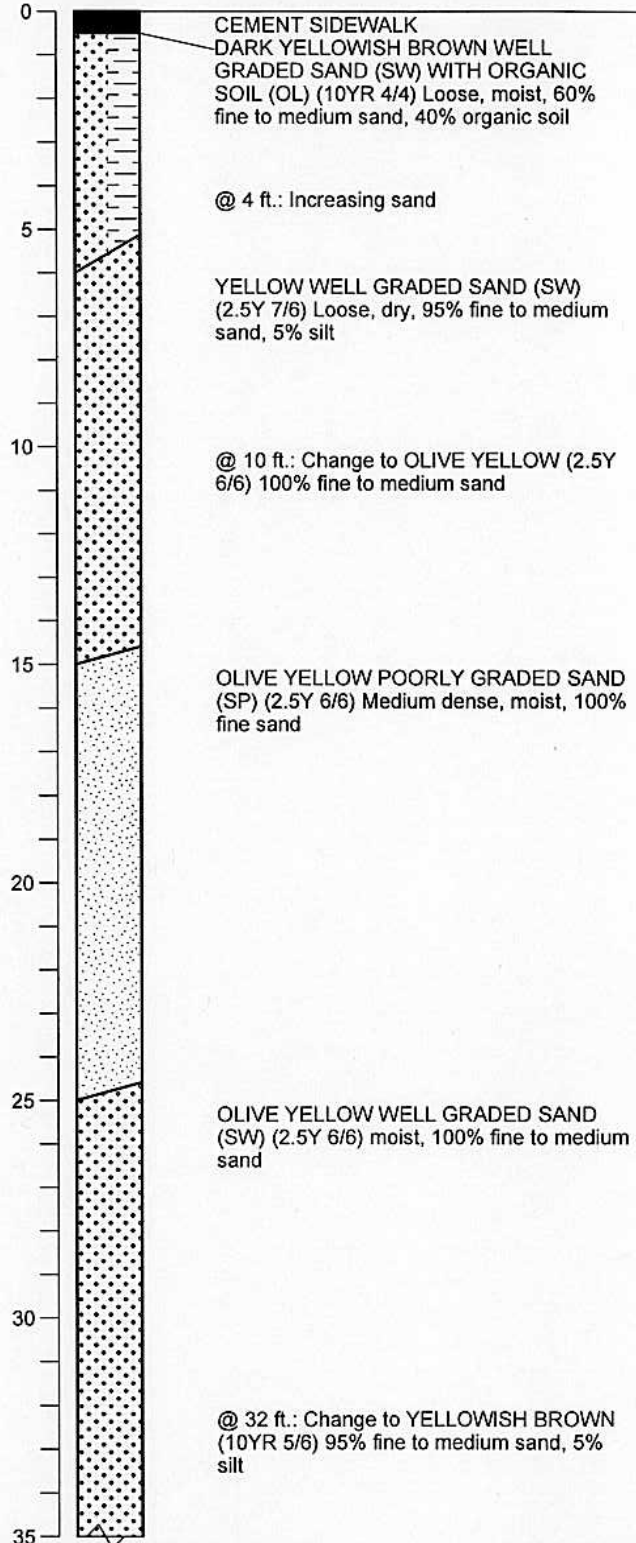
GROUND SURFACE

5 in. DIAMETER
SCHEDULE 80
PVC BLANK
CASING: -0.30 to
53 ft.

12 in. DIAMETER
BOREHOLE: 0 to
85 ft.

BENTONITE-
CEMENT SEAL: 0
to 43 ft.

Depth (ft.)
Sample



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-46-A
OUCTP

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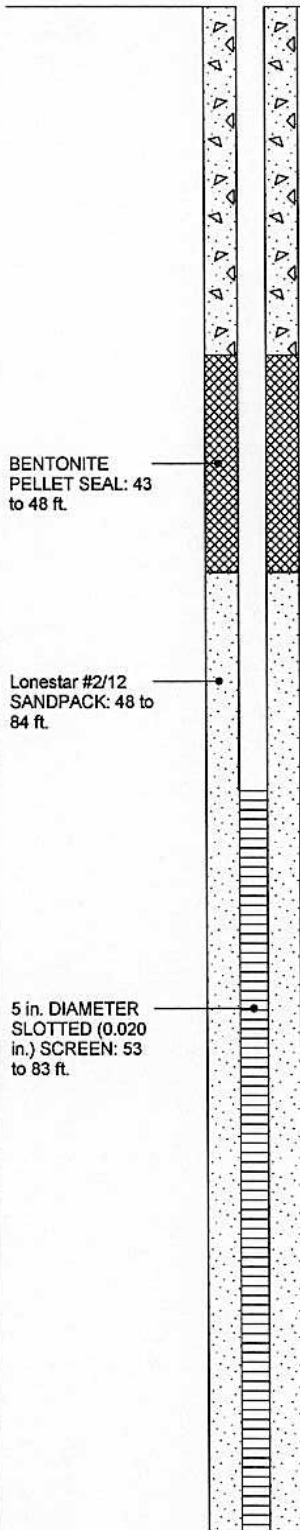
DATE
11/04

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A60

Completion Date 5/10/2001
 Drilling Method Hollow Stem Auger
 Logged by _____
 Surface Elevation 68.02 ft. Hole Dia. 12 in.
 Northing 2143878.141 Easting 5743073.325

Depth (ft.)
 Sample



35
40
45
50
55
60
65
70

@ 42-48 ft.: Driller notes harder material - possible paleosol

@ 48 ft.: Driller notes change - possible water

@ 60 ft.: Wet, increase in grain size, trace fine gravel

BORING WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MW-BW-46-A
 OUCTP

PLATE

Fort Ord, California

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JOB NUMBER
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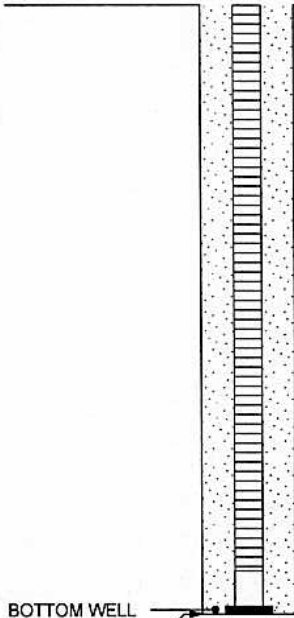
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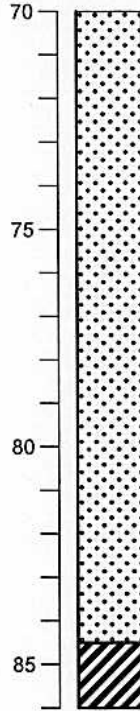
REVISED DATE

Completion Date 5/10/2001
 Drilling Method Hollow Stem Auger
 Logged by _____
 Surface Elevation 68.02 ft. Hole Dia. 12 in.
 Northing 2143878.141 Easting 5743073.325

Depth (ft.)
 Sample



BOTTOM WELL
 CAP: 84 ft.
 Hole cleaned out
 to 84 ft.



@ 70 ft.: Change to 80% medium to coarse sand, 15% fine gravel to 5 mm, 5% silt, trace crushed shells

@ 75 ft.: Change to 85% medium to coarse sand, 15% fine gravel

@ 80 ft.: Decrease in grain size

DARK OLIVE GRAY FAT CLAY (CH) (5Y 3/2) Hard, slightly moist

Bottom of Boring at 86 ft.

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MW-BW-46-A
 OUCTP

PLATE

Fort Ord, California

A60

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JOB NUMBER
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DATE
 11/04

REVISED DATE

Top of PVC Casing
Elev. 162.46 ft.

Completion Date 3/28/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 163.08 ft.

Hole Dia. 7 in.

Northing 2138842.37

Easting 5747763.88

GROUND SURFACE

Top of casing at 1
ft. above ground
level

7 in. DIAMETER
BOREHOLE: 0 to
247 ft.

3 DIAMETER
SCHEDULE 40
PVC BLANK
CASING: 1 to 226
ft.

BENTONITE-
CEMENT SEAL: 0
to 25 ft.

BENTONITE
SLURRY: 25 to
197 ft.

Depth (ft.)
Sample

0
5
10
15
20
25
30

VERY DARK GRAY SILTY SAND (SM)
(10YR 3/1) Loose, moist, 85% fine to coarse
sand, 15% silt

@ 3 ft.: Change to BROWN (10YR 4/3)

YELLOWISH BROWN WELL GRADED
SAND (SW) (10YR 5/6) Loose, moist, 90%
fine to coarse sand, 10% silt

@ 10 ft.: Similar to above

YELLOWISH BROWN POORLY GRADED
SAND (SP) (10YR 5/6) Loose, dry, 90% fine
to medium sand, 10% silt

@ 16 ft.: Similar to above

YELLOWISH BROWN WELL GRADED
SAND (SW) (10YR 5/6) Loose, dry, 90%
fine to coarse sand, 10% silt

@ 25 ft.: Similar to above

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-47-180
OUCTP

PLATE

Fort Ord, California

DRAWN
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JOB NUMBER
55596 001701

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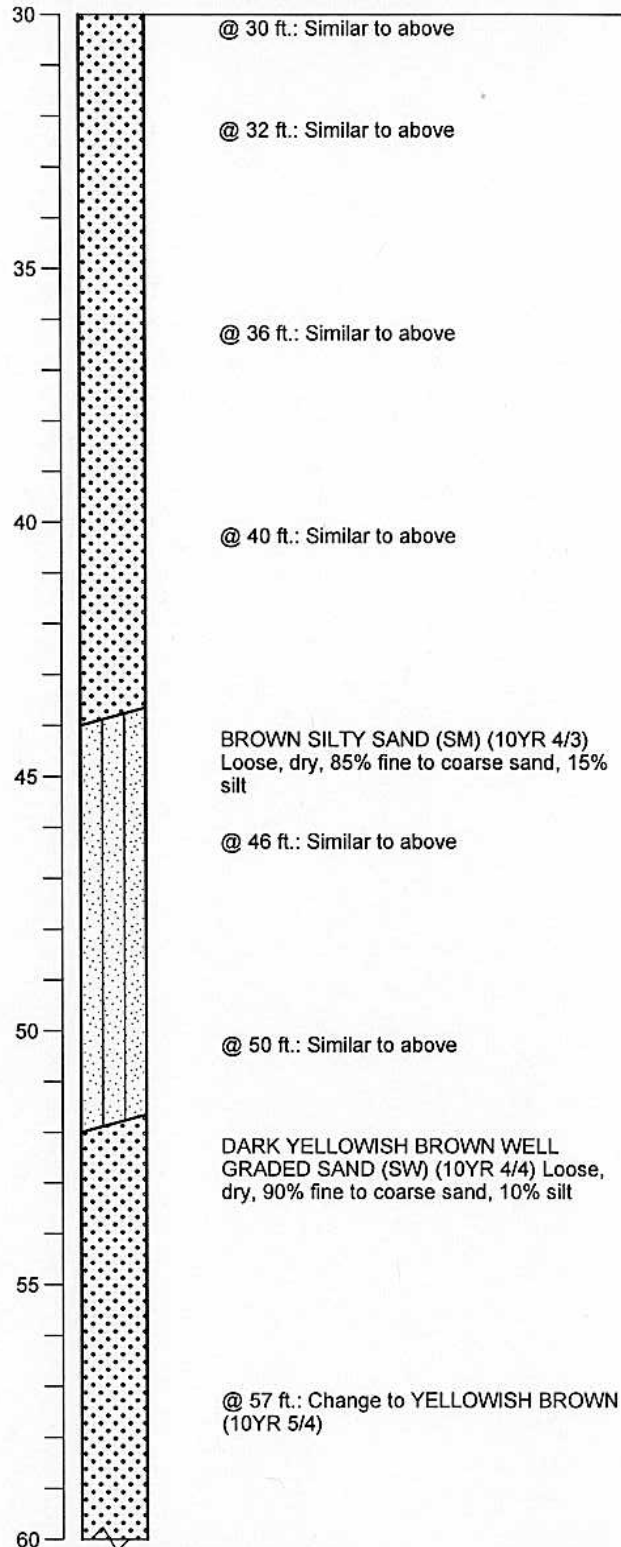
REVISED DATE

A61

Completion Date 3/28/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 163.08 ft. Hole Dia. 7 in.
 Northing 2138842.37 Easting 5747763.88

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
197 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-47-180
OUCTP

PLATE

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED
MDT / cm

DATE
11/04

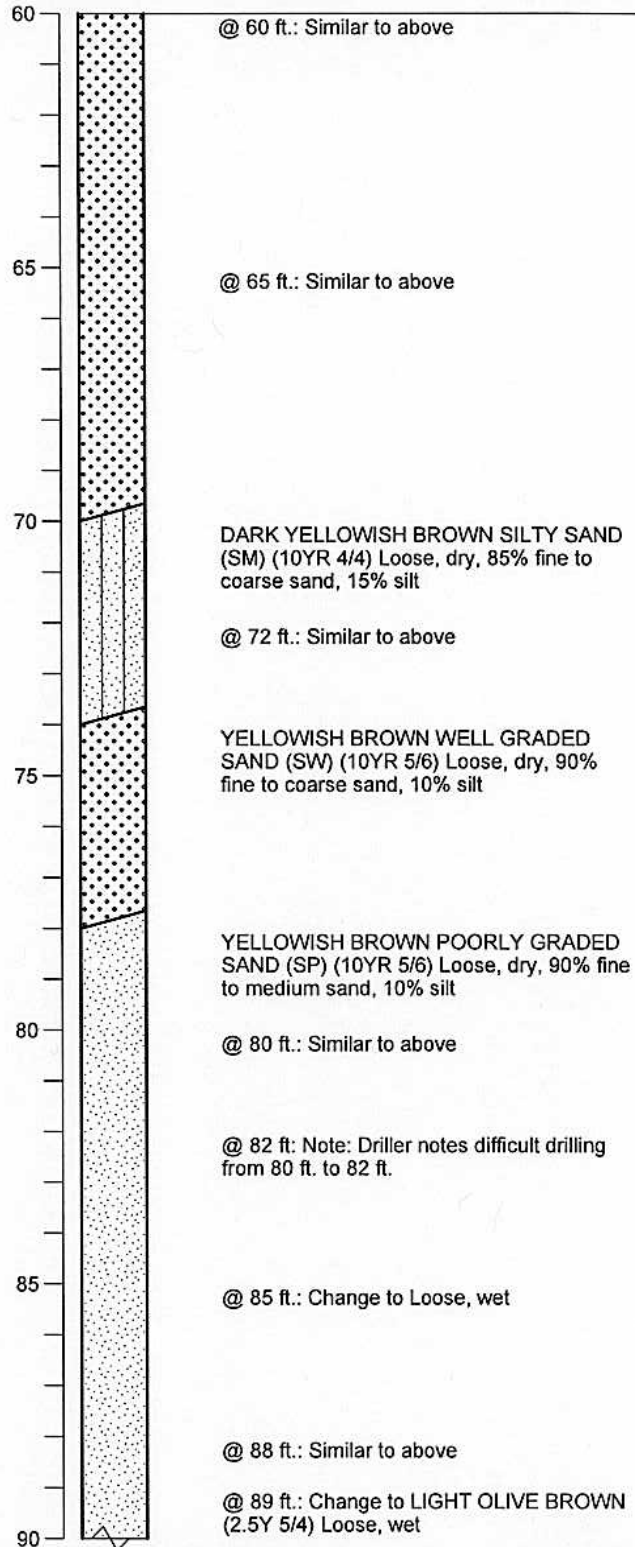
REVISED DATE

A61

Completion Date 3/28/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 163.08 ft. Hole Dia. 7 in.
 Northing 2138842.37 Easting 5747763.88

Depth (ft.)
 Sample

BENTONITE
 SLURRY: 25 to
 197 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-47-180
 OUCTP

PLATE

Fort Ord, California

DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED
 MOT / am

DATE
 11/04

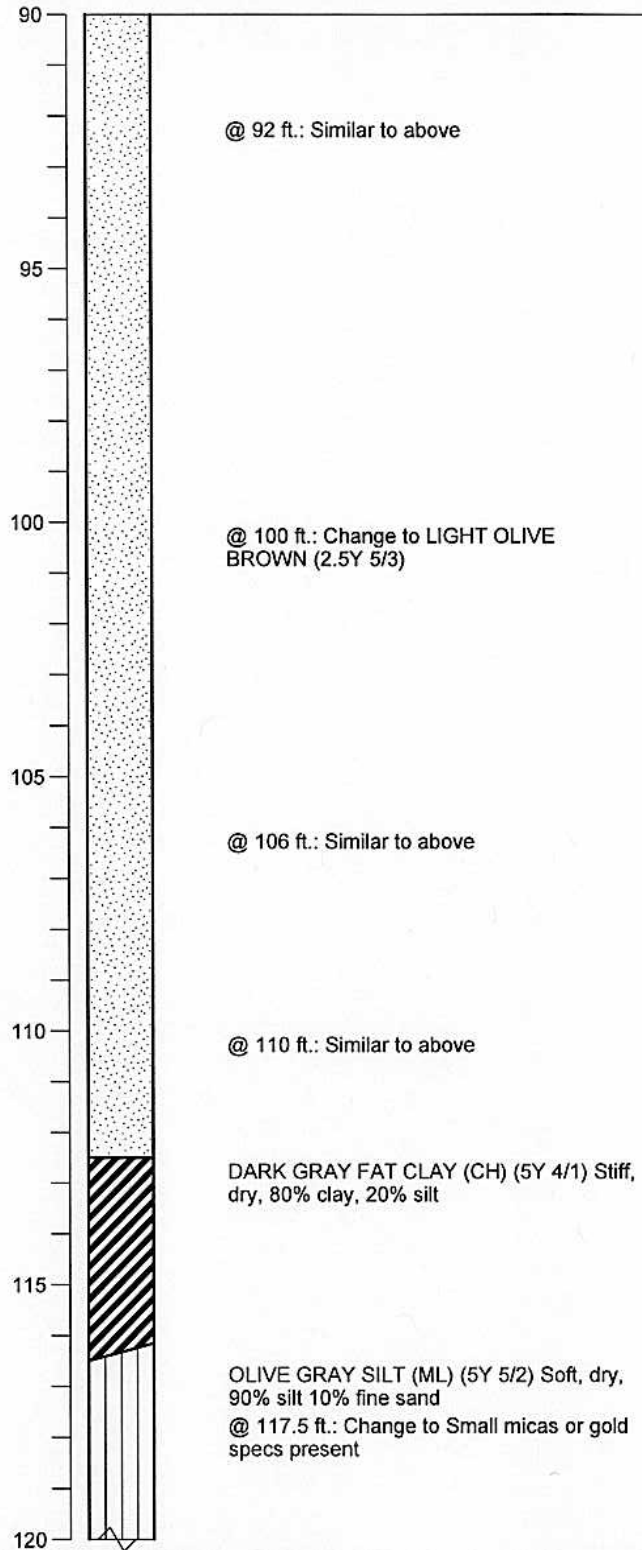
REVISED DATE

A61

Completion Date 3/28/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 163.08 ft. Hole Dia. 7 in.
 Northing 2138842.37 Easting 5747763.88

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
197 ft.



BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-47-180
OUCTP

PLATE

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

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A61

Completion Date 3/28/2003

Drilling Method Sonic

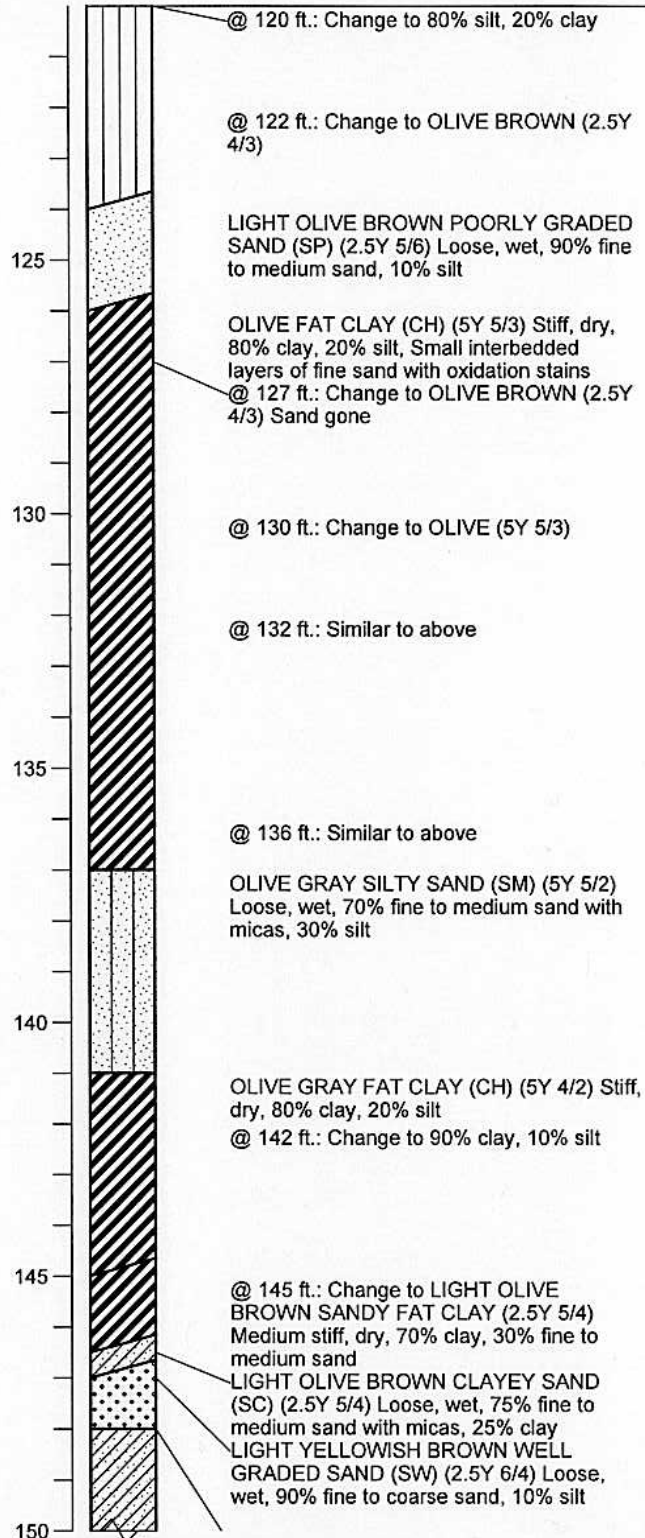
Logged by D. Browne

Surface Elevation 163.08 ft. Hole Dia. 7 in.

Northing 2138842.37 Easting 5747763.88

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
197 ft.



BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
Log of Boring MW-BW-47-180
OUCTP

PLATE



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REVISED DATE

A61

Completion Date 3/28/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 163.08 ft.

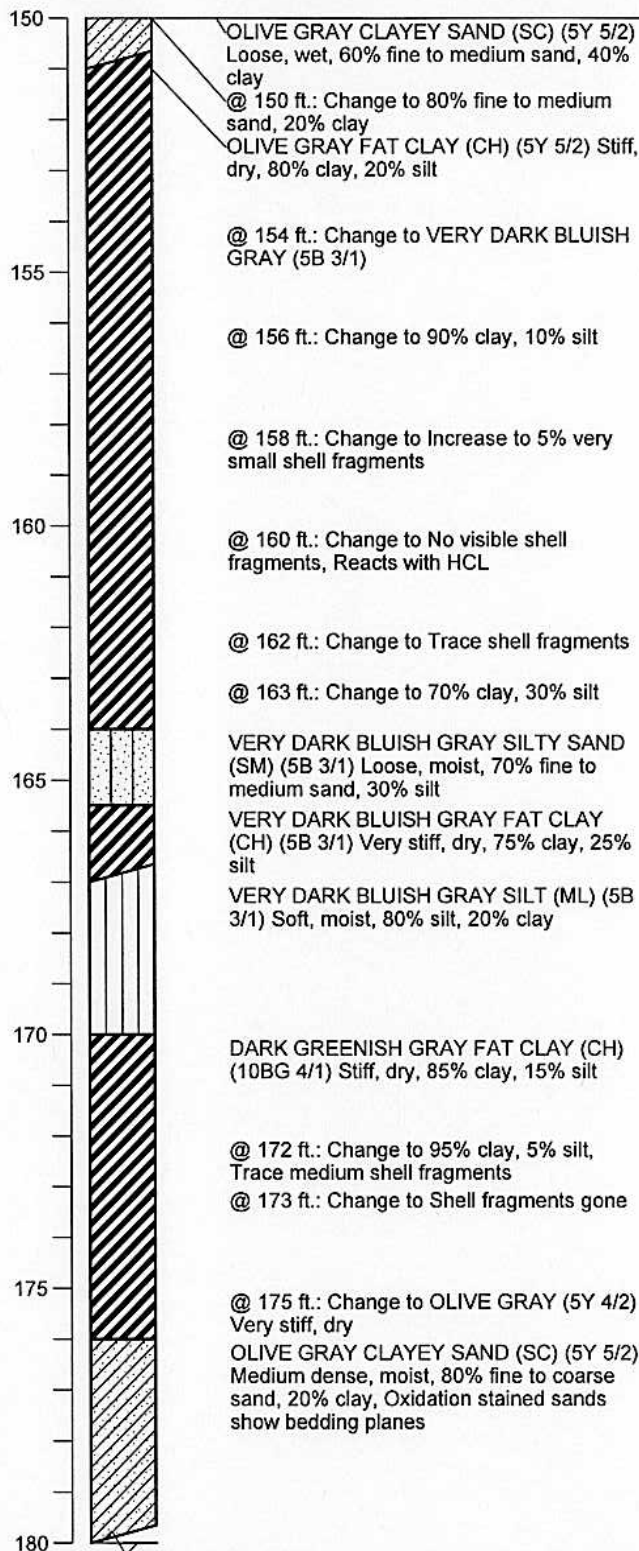
Hole Dia. 7 in.

Northing 2138842.37

Easting 5747763.88

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
197 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-47-180
OUCTP

PLATE

Fort Ord, California

A61

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JOB NUMBER
55596 001701

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DATE
11/04

REVISED DATE

Completion Date 3/28/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 163.08 ft. Hole Dia. 7 in.

Northing 2138842.37 Easting 5747763.88

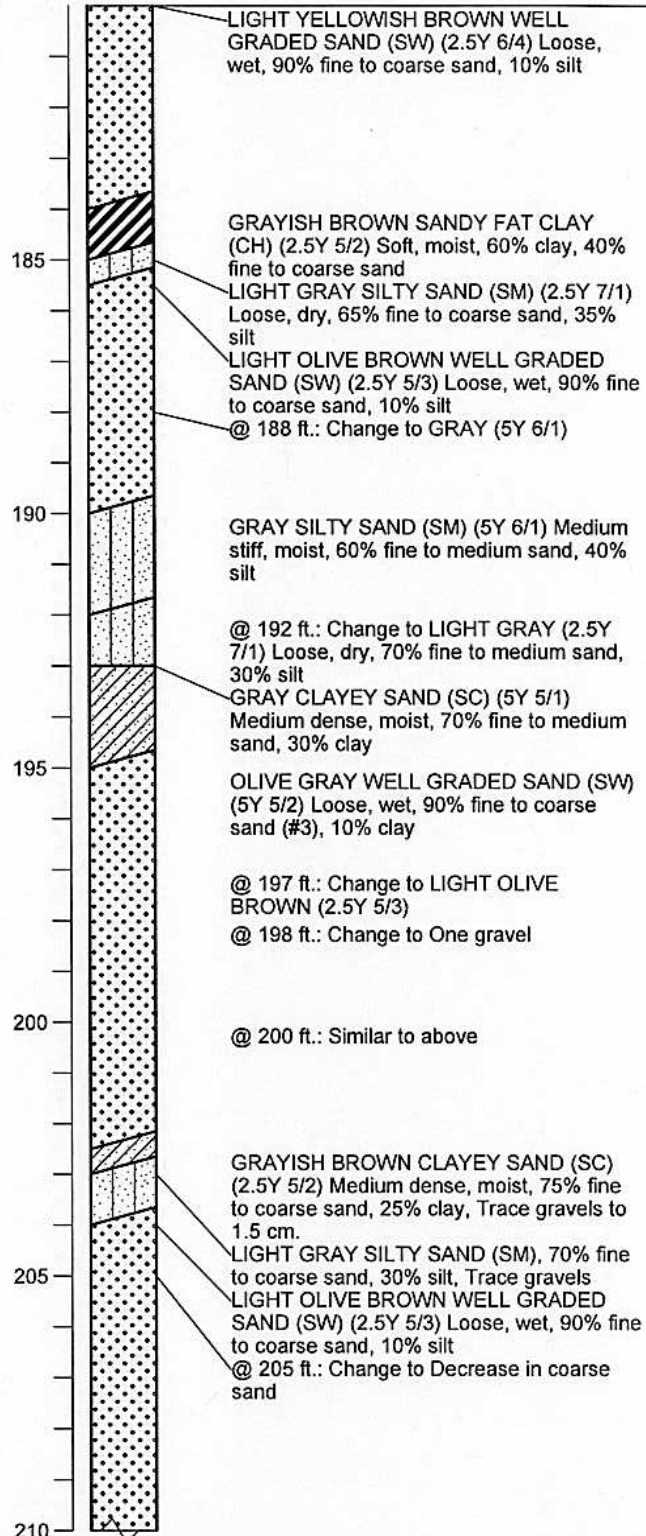
Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
197 ft.

BENTONITE
PELLET SEAL:
197 to 204 ft.

LONESTAR # 2/12
SANDPACK: 204
to 226 ft.

3 in. DIAMETER
SLOTTED (0.02
in.) SCREEN: 206
to 226 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-47-180
OUCTP

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Fort Ord, California

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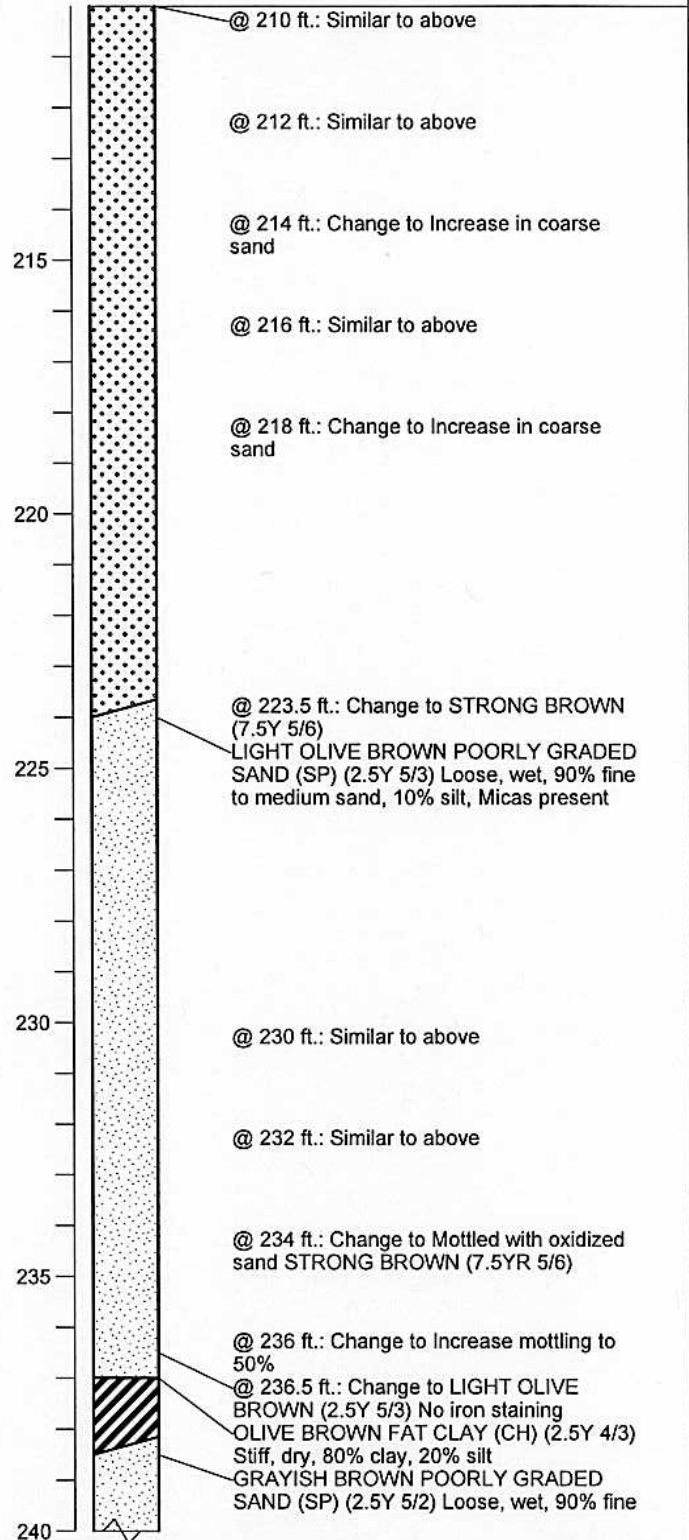
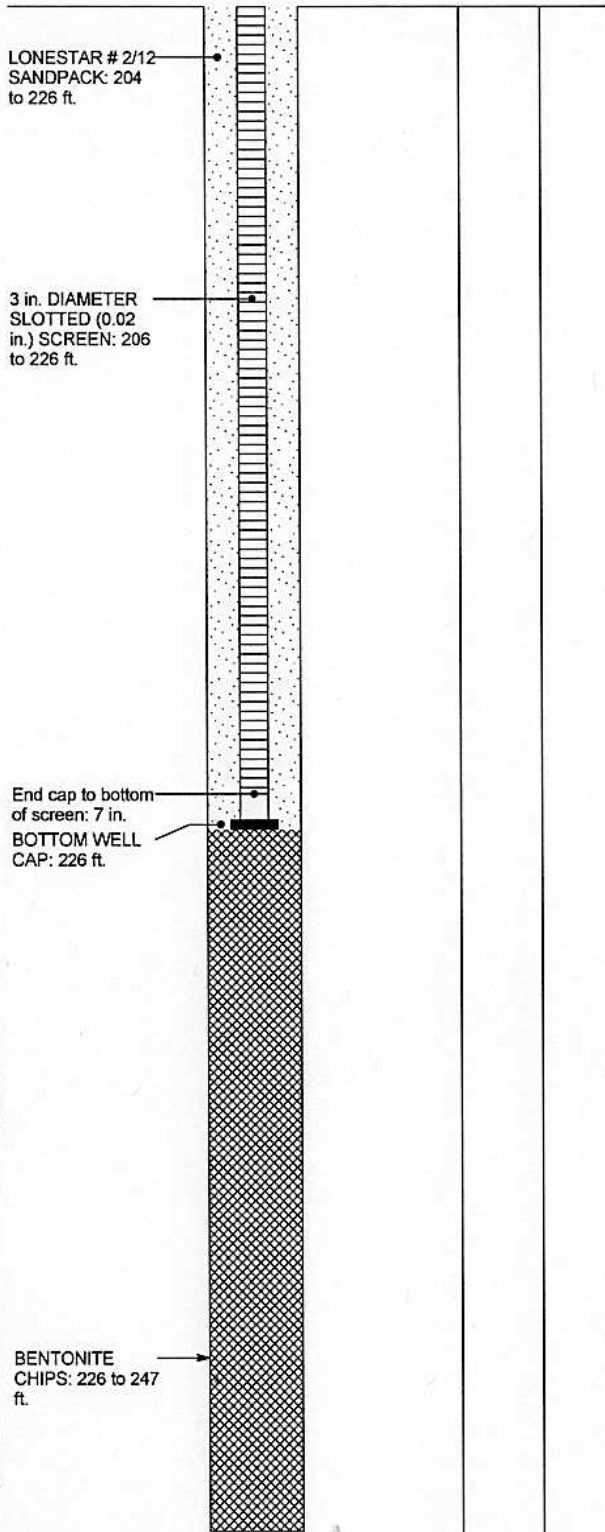
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Completion Date 3/28/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 163.08 ft. Hole Dia. 7 in.
 Northing 2138842.37 Easting 5747763.88

Depth (ft.)
 Sample



BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

**Well Construction Details and
 Log of Boring MW-BW-47-180**
 OUCTP

PLATE



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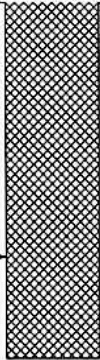
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Completion Date 3/28/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 163.08 ft. Hole Dia. 7 in.
 Northing 2138842.37 Easting 5747763.88

Depth (ft.)
 Sample

BENTONITE
 CHIPS: 226 to 247
 ft.



245

to medium sand, 10% silt, Micas present

GRAYISH BROWN CLAYEY SAND (SC)
 (2.5Y 5/2) Loose, wet, 75% fine to medium
 sand, 25% clay

GRAYISH BROWN POORLY GRADED
 SAND (SP) (2.5Y 5/3) Loose, wet, 90% fine
 to medium sand, 10% silt
 Bottom of Boring @ 247 ft.

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MW-BW-47-180
 OUCTP

Fort Ord, California

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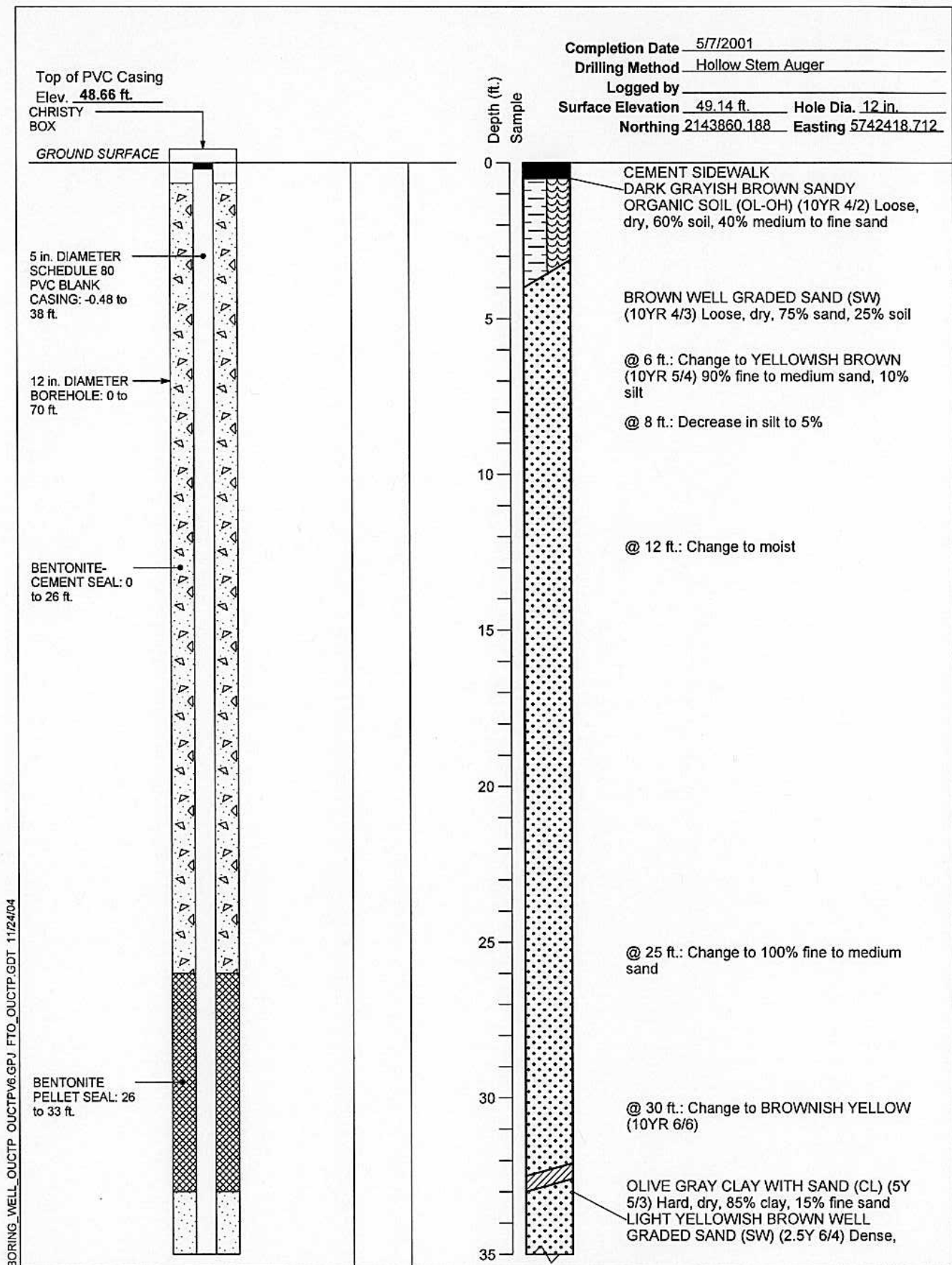
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JOB NUMBER
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Fort Ord, California

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DATE
11/04

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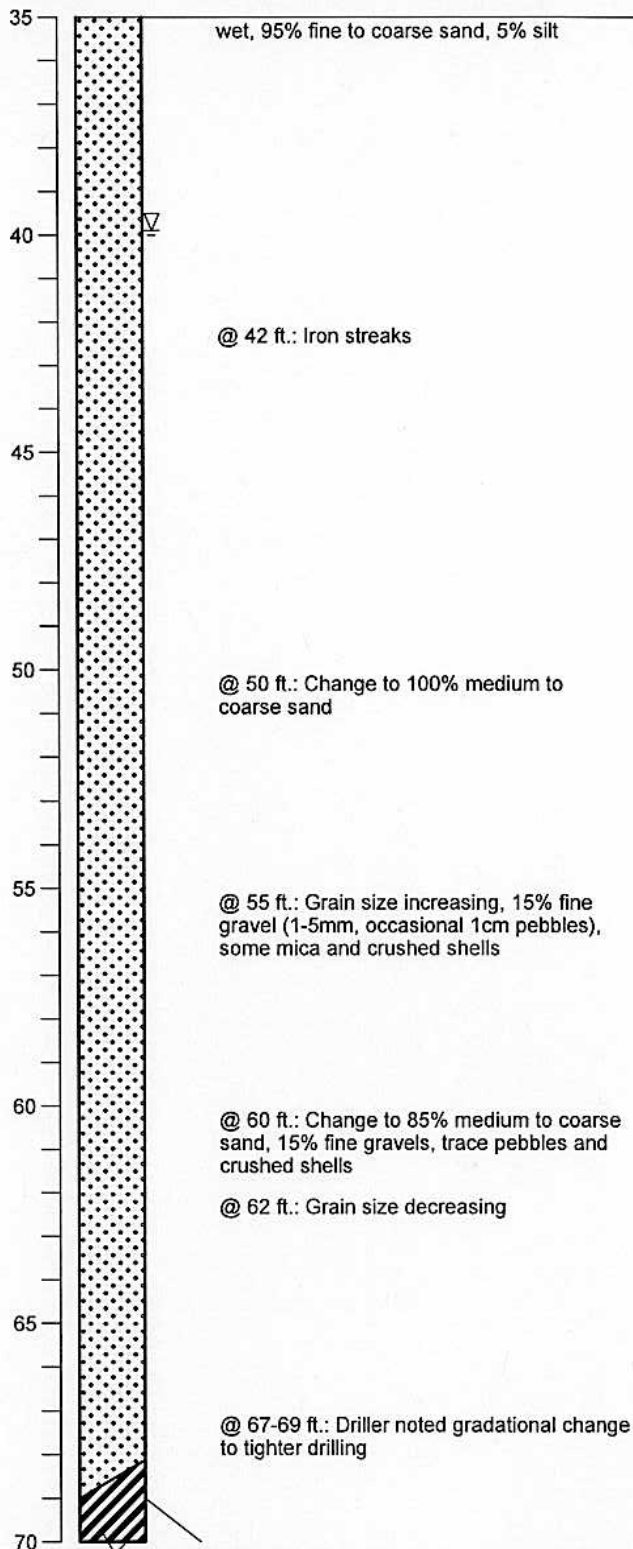
Completion Date 5/7/2001
 Drilling Method Hollow Stem Auger
 Logged by _____
 Surface Elevation 49.14 ft. Hole Dia. 12 in.
 Northing 2143860.188 Easting 5742418.712

Depth (ft.)
 Sample

Lonestar #2/12
 SANDPACK: 33 to
 70 ft.

5 in. DIAMETER
 SLOTTED (0.020
 in.) SCREEN: 38
 to 68 ft.

BOTTOM WELL
 CAP: 69 ft.



BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MW-BW-47-A
 OUCTP

PLATE

Fort Ord, California

A62

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JOB NUMBER
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DATE
 11/04

REVISED DATE

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Hole cleaned out
to 70 ft.

Depth (ft.)
Sample

70

Completion Date 5/7/2001
Drilling Method Hollow Stem Auger
Logged by _____
Surface Elevation 49.14 ft. Hole Dia. 12 in.
Northing 2143860.188 Easting 5742418.712

OLIVE GRAY FAT CLAY (CH) (5Y 5/2)
Soft, moist, 85% clay, 15% fine sand
Bottom of boring at 70 ft.



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Well Construction Details and
Log of Boring MW-BW-47-A
OUCTP

Fort Ord, California

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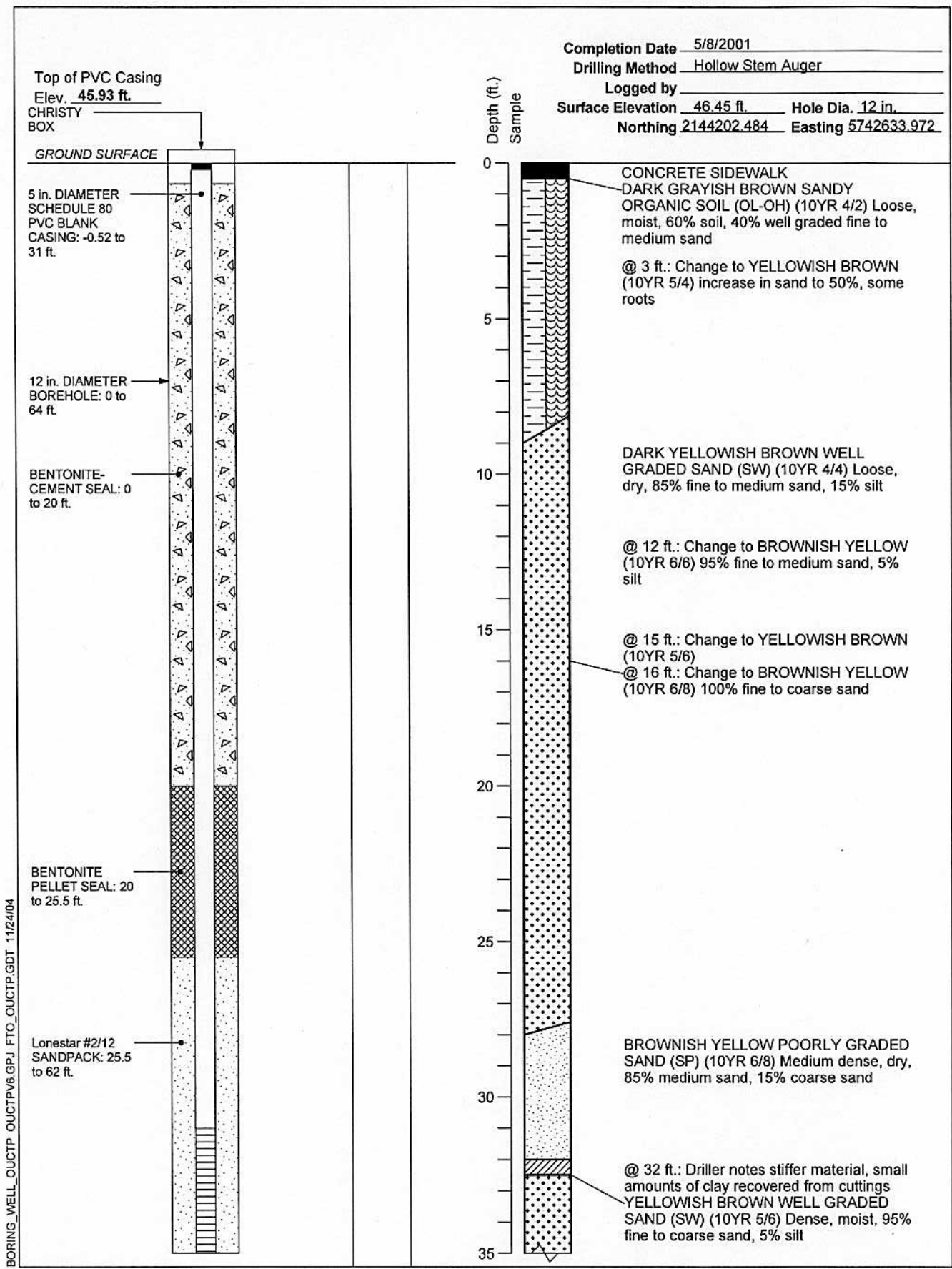
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11/04

REVISED DATE

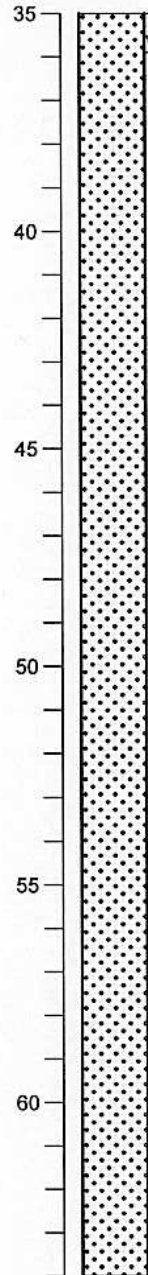
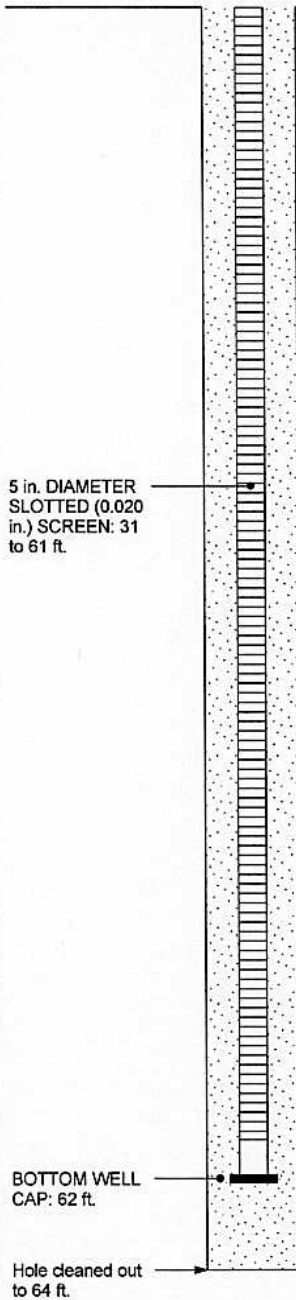
PLATE

A62



Completion Date 5/8/2001
 Drilling Method Hollow Stem Auger
 Logged by _____
 Surface Elevation 46.45 ft. Hole Dia. 12 in.
 Northing 2144202.484 Easting 5742633.972

Depth (ft.)
 Sample



@ 39 ft.: Driller notes change - water

@ 42 ft.: Change to wet

@ 50 ft.: Change to LIGHT OLIVE BROWN
 (2.5Y 5/4) wet, 85% medium to coarse
 sand, 15% fine gravel

@ 52 ft.: Change to 80% medium to coarse
 sand, 15% fine gravel (up to 5 mm), 5% silt

@ 60 ft.: Increase in grain size (gravel to 1
 cm), trace shell fragments

@ 62 ft.: Driller noted stiffer drilling,
 increase in silt and clay

Bottom of boring at 64 ft.

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MW-BW-48-A
 OUCTP

Fort Ord, California

PLATE

A63

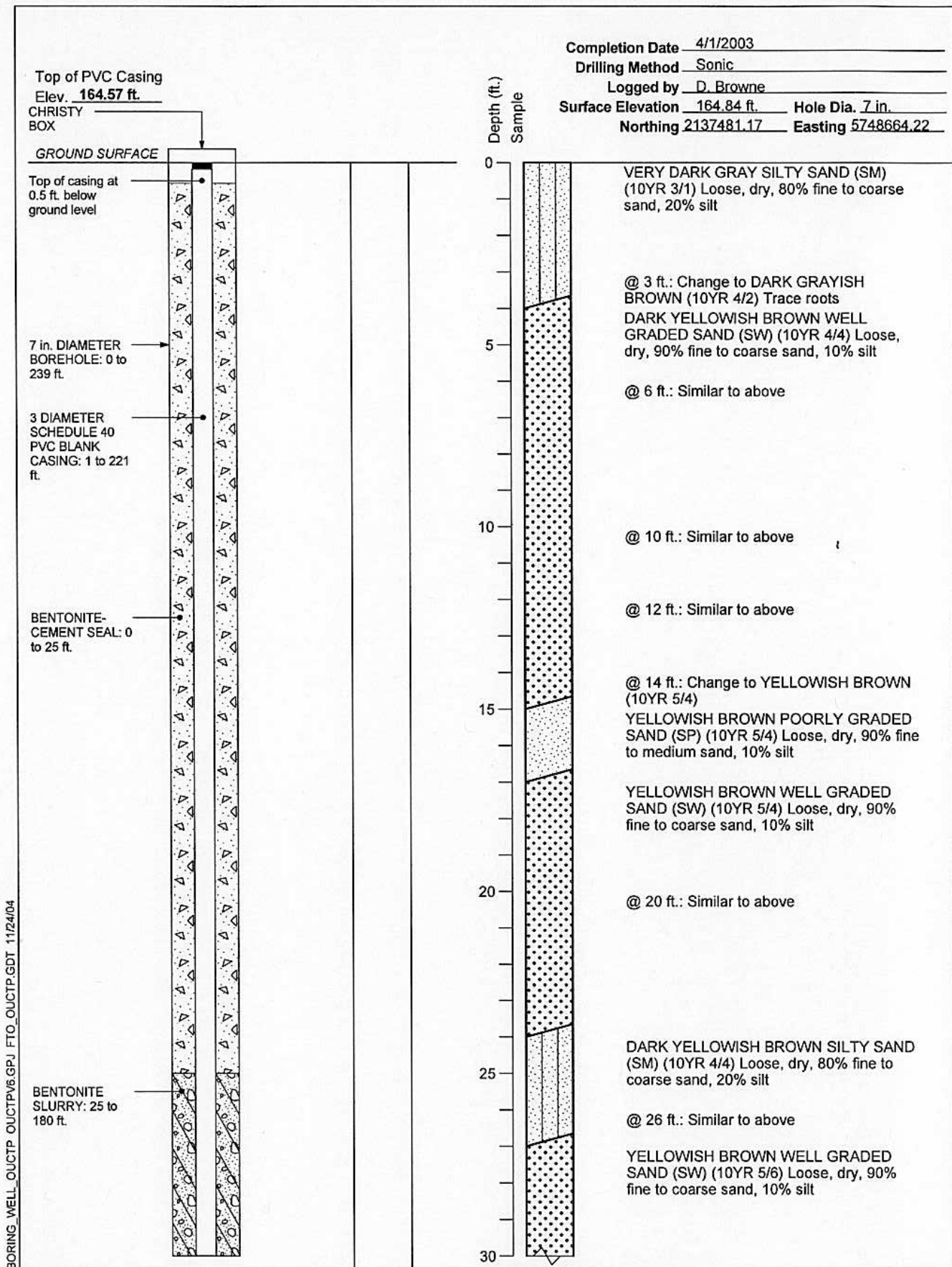
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 PCB

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BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-49-180
OUCTP

PLATE

Fort Ord, California

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JOB NUMBER
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MDT / CM

DATE
11/04

REVISED DATE

A64

Completion Date 4/1/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 164.84 ft Hole Dia. 7 in.

Northing 2137481.17 Easting 5748664.22

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
180 ft.

30
35
40
45
50
55
60

@ 30 ft.: Similar to above

@ 34 ft.: Change to YELLOWISH BROWN
(10YR 5/4)

@ 36 ft.: Similar to above

@ 40 ft.: Similar to above

@ 46 ft.: Similar to above

@ 50 ft.: Similar to above

@ 56 ft.: Similar to above

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-49-180
OUCTP

PLATE

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

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DATE
11/04

REVISED DATE

A64

Completion Date 4/1/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 164.84 ft. Hole Dia. 7 in.

Northing 2137481.17 Easting 5748664.22

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
180 ft.

60
65
70
75
80
85
90

@ 60 ft.: Similar to above

@ 65 ft.: Similar to above

@ 70 ft.: Similar to above

LIGHT OLIVE BROWN POORLY GRADED
SAND (SP) (2.5Y 5/4) Loose, dry, 90% fine
to medium sand, 10% silt

@ 74 ft.: Change to Loose, moist

@ 76 ft.: Change to Loose, wet, 90% fine to
coarse sand, 10% silt

@ 80 ft.: Similar to above

LIGHT OLIVE BROWN WELL GRADED
SAND (SW) (2.5Y 5/4) Loose, wet, 90% fine
to coarse sand, 10% silt

BORING_WELL_OUCTP OUCTPV&GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-49-180
OUCTP

PLATE

Fort Ord, California

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MBP

JOB NUMBER
55596 001701

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11/04

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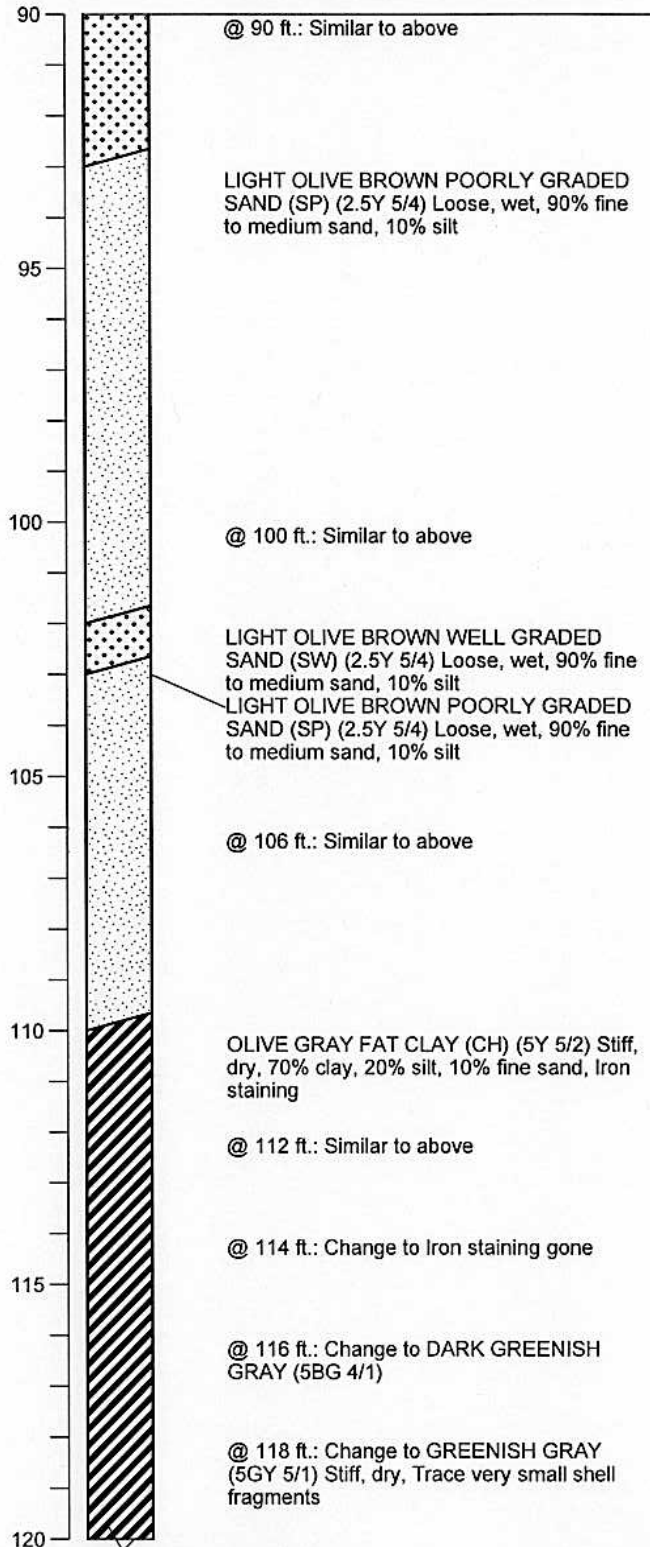
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Completion Date 4/1/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 164.84 ft. Hole Dia. 7 in.
 Northing 2137481.17 Easting 5748664.22

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

BENTONITE
SLURRY: 25 to
180 ft.

Depth (ft.)
Sample



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Well Construction Details and
Log of Boring MW-BW-49-180
OUCTP

PLATE

Fort Ord, California

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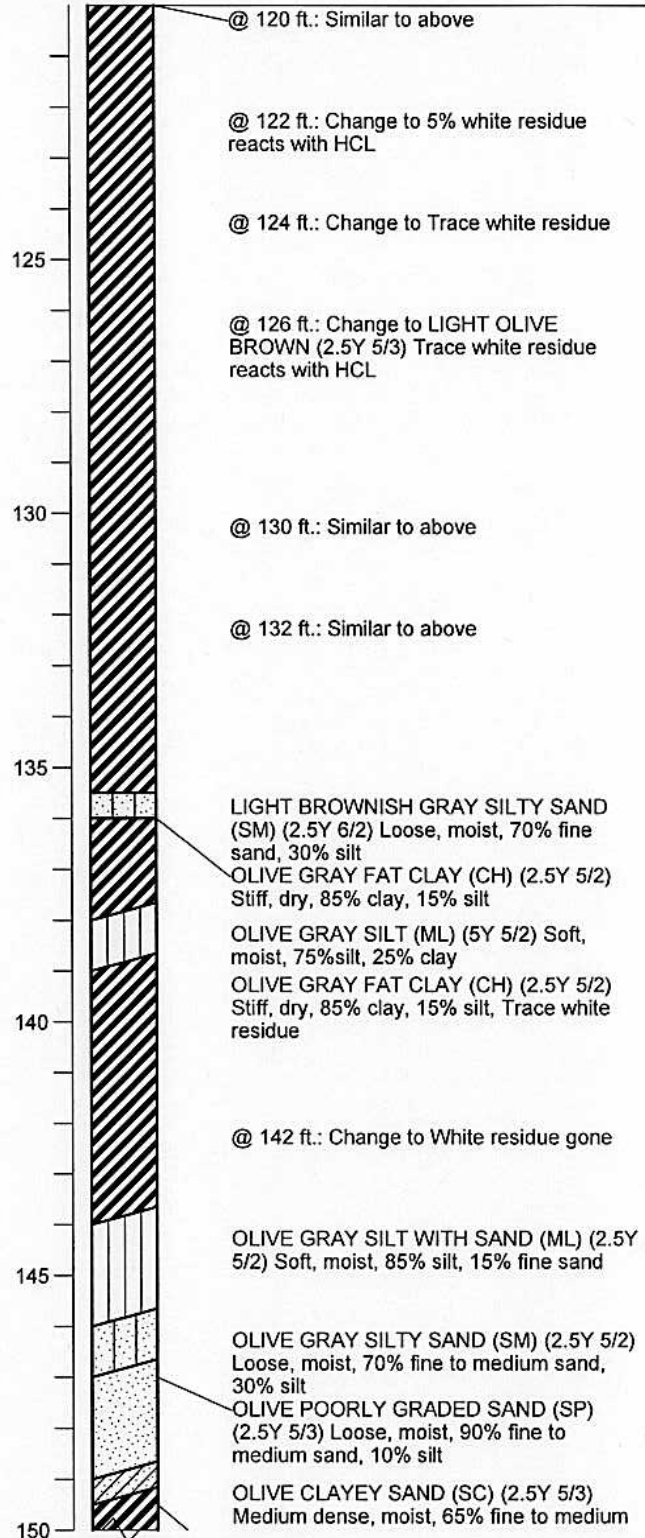
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11/04

REVISED DATE

Completion Date 4/1/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 164.84 ft. Hole Dia. 7 in.
 Northing 2137481.17 Easting 5748664.22

Depth (ft.)
 Sample

BENTONITE
 SLURRY: 25 to
 180 ft.



BORING_WELL_OUCTP OUCTPVS.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MW-BW-49-180
 OUCTP

PLATE

Fort Ord, California

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JOB NUMBER
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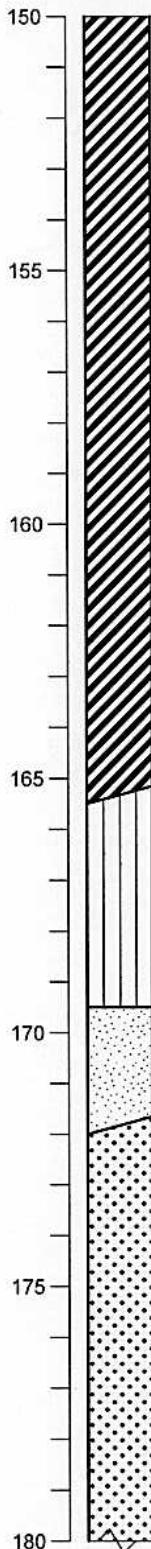
DATE
 11/04

REVISED DATE

Completion Date 4/1/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 164.84 ft. Hole Dia. 7 in.
 Northing 2137481.17 Easting 5748664.22

Depth (ft.)
 Sample

BENTONITE
 SLURRY: 25 to
 180 ft.



sand, 35% clay
 DARK BLUISH GRAY FAT CLAY (CH) (5B
 4/1) Very stiff, dry, 80% clay, 20% silt

@ 152 ft.: Change to 90% clay, 10% silt,
 Large shell fragments

@ 154 ft.: Change to Trace very small shell
 fragments

@ 156 ft.: Similar to above

@ 160 ft.: Change to 75% clay, 25% silt

@ 164 ft.: Change to DARK GRAY (N 4/0)
 90% clay, 10% silt, Trace shell fragments

DARK GREENISH GRAY SILT WITH
 SAND (ML) (5BG 4/1) Soft, moist, 85% silt,
 15% fine sand

@ 165.5 ft.: Change to (N 4/0) Soft, dry,
 90% silt, 10% clay

@ 168 ft.: Change to LIGHT OLIVE GRAY
 (5Y 5/2) Stiff, dry, 9% silt, 10% fine sand,
 Iron staining present

LIGHT YELLOWISH BROWN POORLY
 GRADED SAND (SP) (2.5Y 6/3) Loose, wet,
 90% fine sand, 10% silt

YELLOWISH BROWN WELL GRADED
 SAND (SW) (10YR 5/4) Loose, wet, 90%
 fine to coarse sand, 10% silt

@ 176 ft.: Change to Increase coarse sand

BORING WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MW-BW-49-180
 OUCTP

PLATE

Fort Ord, California

A64

DRAWN
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JOB NUMBER
 55596 001701

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DATE
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REVISED DATE

Completion Date 4/1/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 164.84 ft. Hole Dia. 7 in.

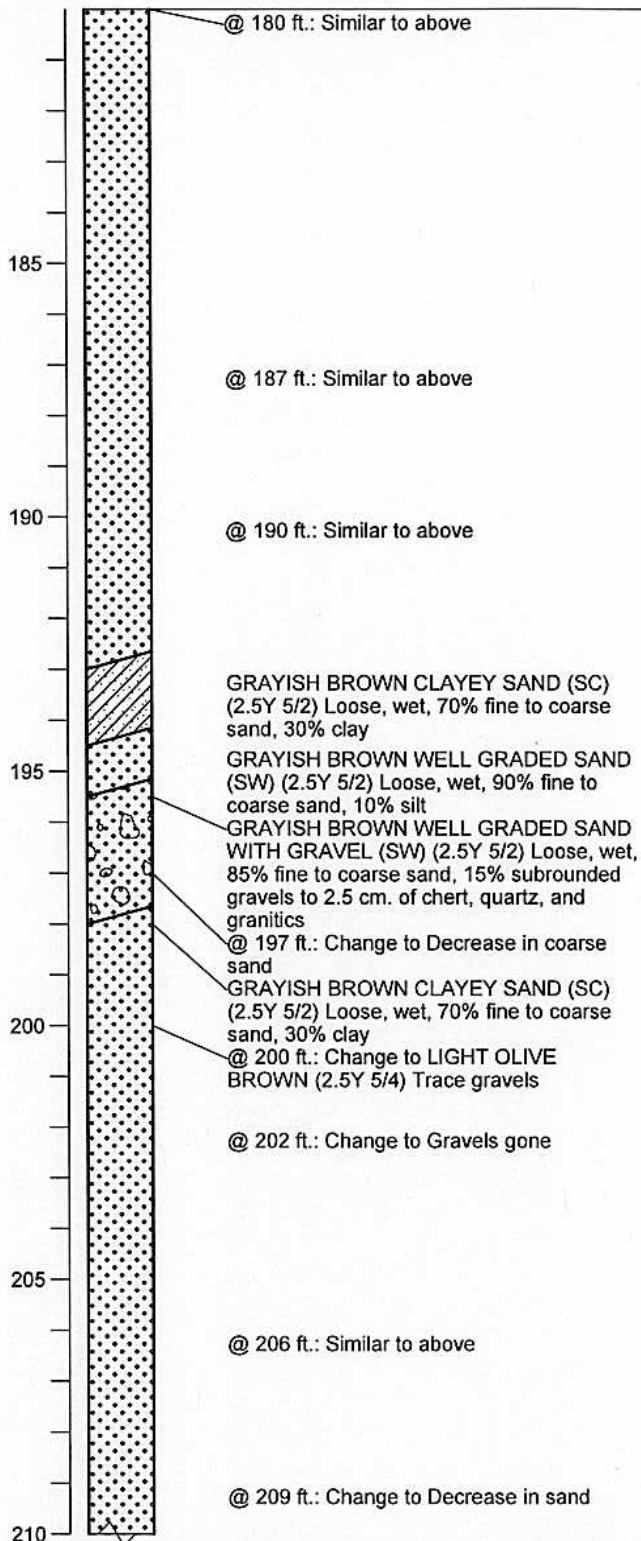
Northing 2137481.17 Easting 5748664.22

Depth (ft.)
Sample

BENTONITE
PELLET SEAL:
180 to 187 ft.

LONESTAR # 3
SANDPACK: 187
to 221 ft.

3 in. DIAMETER
SLOTTED (0.02
in.) SCREEN: 190
to 220 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-49-180
OUCTP

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Fort Ord, California

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JOB NUMBER
55596 001701

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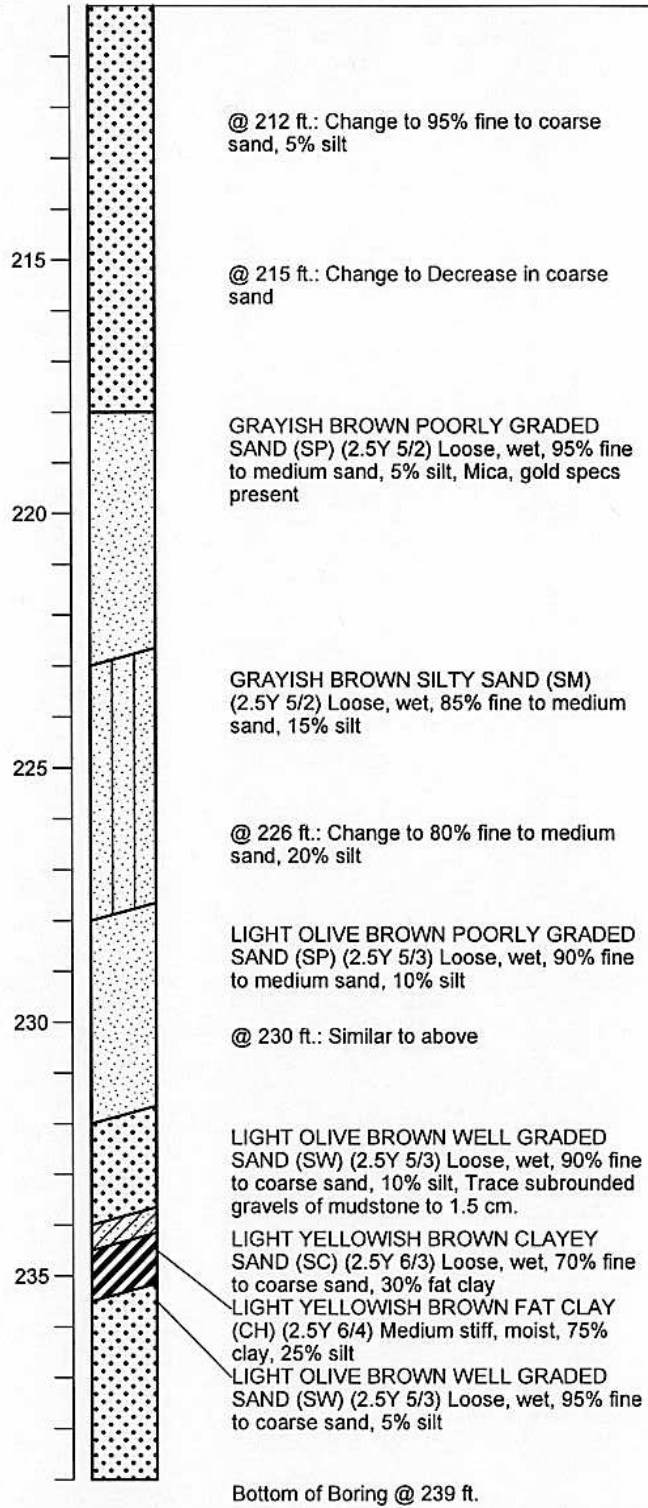
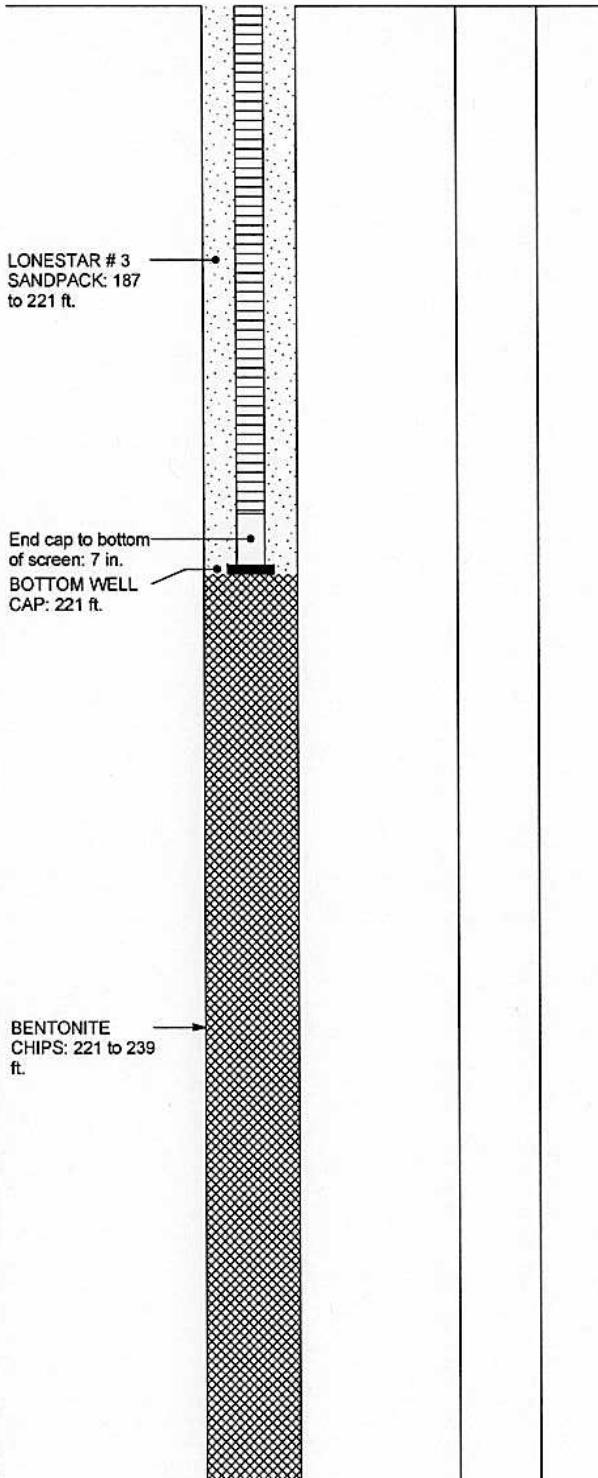
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Completion Date 4/1/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 164.84 ft. Hole Dia. 7 in.
 Northing 2137481.17 Easting 5748664.22

Depth (ft.)
 Sample



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

**Well Construction Details and
 Log of Boring MW-BW-49-180**
 OUCTP

PLATE



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A64

DRAWN
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JOB NUMBER
 55596 001701

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DATE
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REVISED DATE

Top of PVC Casing
Elev. 44.49 ft.
CHRISTY
BOX

GROUND SURFACE

5 in. DIAMETER
SCHEDULE 80
PVC BLANK
CASING: -0.27 to
31.5 ft.

12 in. DIAMETER
BOREHOLE: 0 to
62.5 ft.

BENTONITE-
CEMENT SEAL: 0
to 21 ft.

BENTONITE
PELLET SEAL: 21
to 26.5 ft.

Lonestar #2/12
SANDPACK: 26.5
to 62.5 ft.

Completion Date 5/9/2001

Drilling Method Hollow Stem Auger

Logged by _____

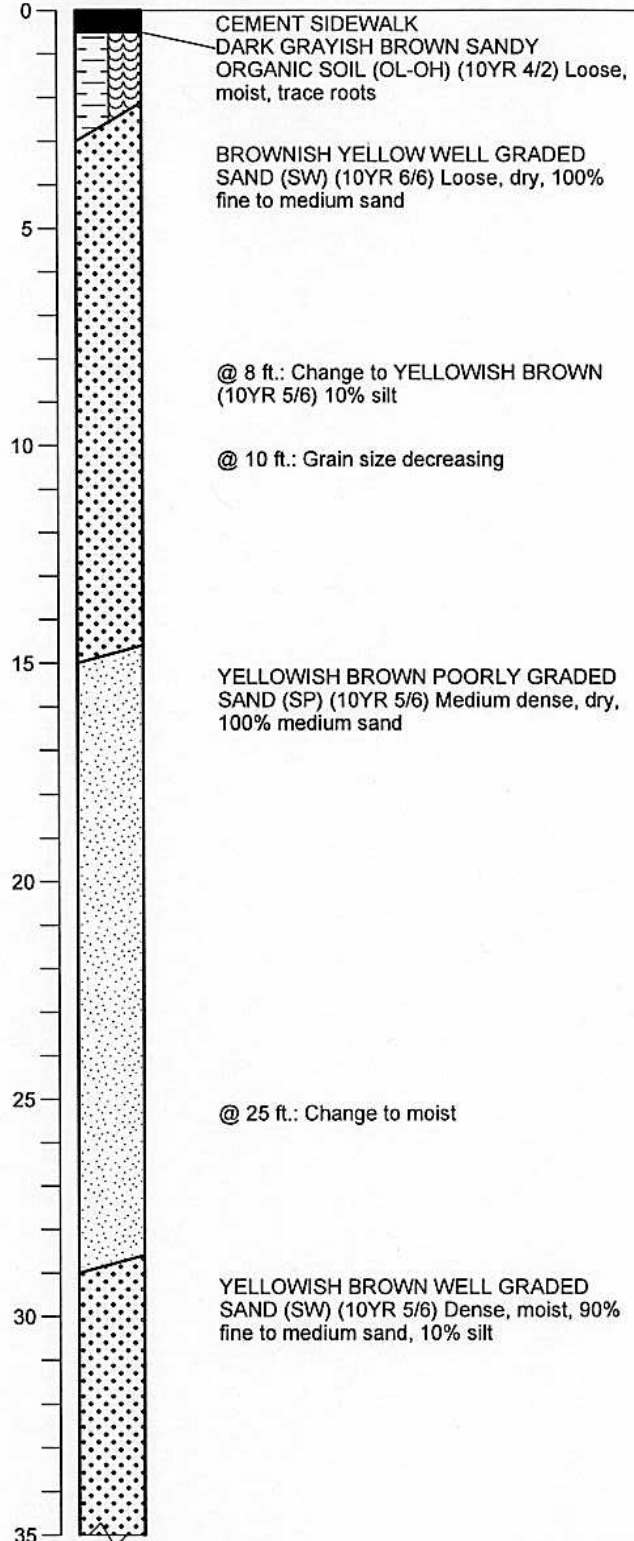
Surface Elevation 44.76 ft.

Hole Dia. 12 in.

Northing 2144543.607

Easting 5742882.197

Depth (ft.)
Sample



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-49-A
OUCTP

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A65

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DATE
11/04

REVISED DATE

Completion Date 5/9/2001

Drilling Method Hollow Stem Auger

Logged by _____

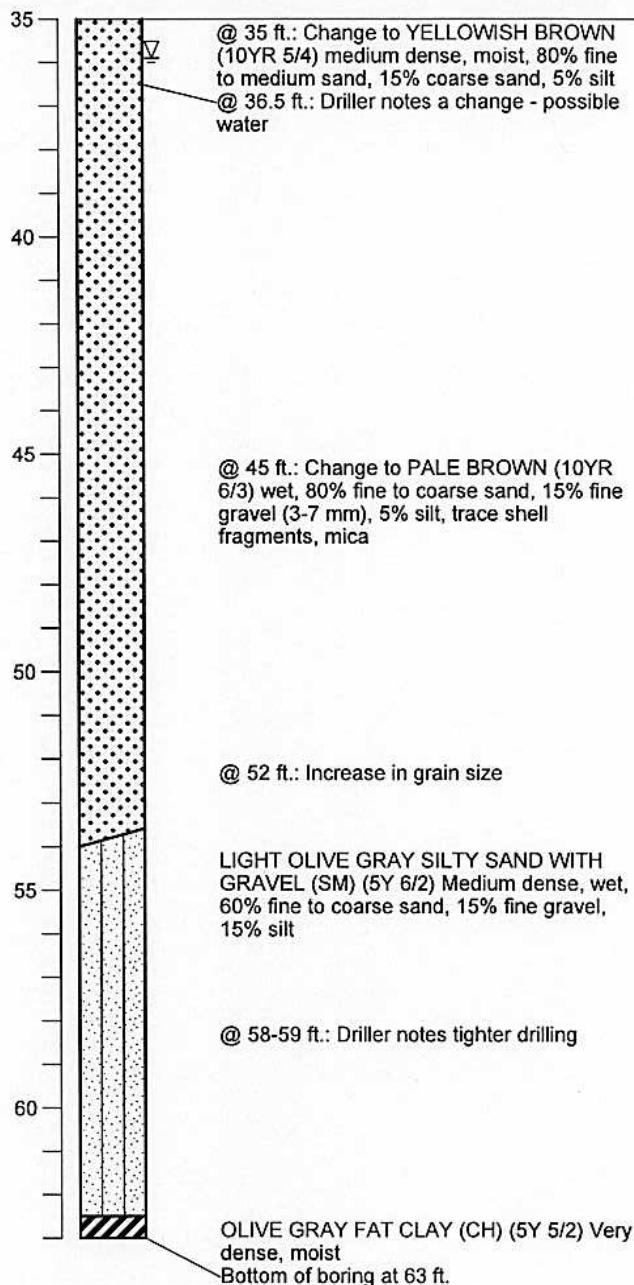
Surface Elevation 44.76 ft. Hole Dia. 12 in.

Northing 2144543.607 Easting 5742882.197

Depth (ft.)
Sample

5 in. DIAMETER
SLOTTED (0.020
in.) SCREEN: 31.5
to 61.5 ft.

BOTTOM WELL
CAP: 62.5 ft.
Hole cleaned out
to 62.5 ft.
Bottom of boring
at 63 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-49-A
OUCTP

PLATE

Fort Ord, California

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JOB NUMBER
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DATE
11/04

A65
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Top of PVC Casing
Elev. 178.65 ft.

Completion Date 6/24/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 176 ft.

Hole Dia. 7 in.

Northing 2137526.1

Easting 5748379.3

GROUND SURFACE

Top of casing at
2.5 ft. above
ground level

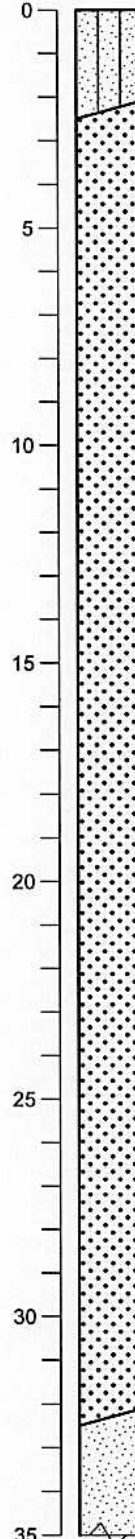
7 in. DIA.
BOREHOLE: 0 to
245 ft.

3 in. DIA.
SCHEDULE 40
PVC BLANK
CASING: 1 to 200
ft.

BENTONITE-
CEMENT SEAL: 0
to 25 ft.

BENTONITE
SLURRY: 25 to
188 ft.

Depth (ft.)
Sample



VERY DARK GRAYISH BROWN SILTY
SAND (SM) (10YR 3/2) Loose, dry, 85%
fine to coarse sand, 15% silt

DARK BROWN WELL GRADED SAND
(SW) (10YR 3/3) Loose, dry, 90% fine to
coarse sand, 10% silt

@ 6 ft.: Change to BROWN (10YR 4/3)

@ 7 ft.: Change to YELLOWISH BROWN
(10YR 5/6)

@ 9 ft.: Change to YELLOWISH BROWN
(10YR 5/4)

@ 12 ft.: Similar to above

@ 14 ft.: Change to DARK YELLOWISH
BROWN (10YR 4/6)

@ 16 ft.: Change to YELLOWISH BROWN
(10YR 5/6)

@ 20 ft.: Similar to above

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above

YELLOWISH BROWN POORLY GRADED
SAND (SP) (10YR 5/6) Loose, dry, 90% fine
to coarse sand, 10% silt

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



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Well Construction Details and
Log of Boring MW-BW-50-180
OUCTP

PLATE

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JOB NUMBER
55596 001701

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A66

Completion Date 6/24/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 176 ft.

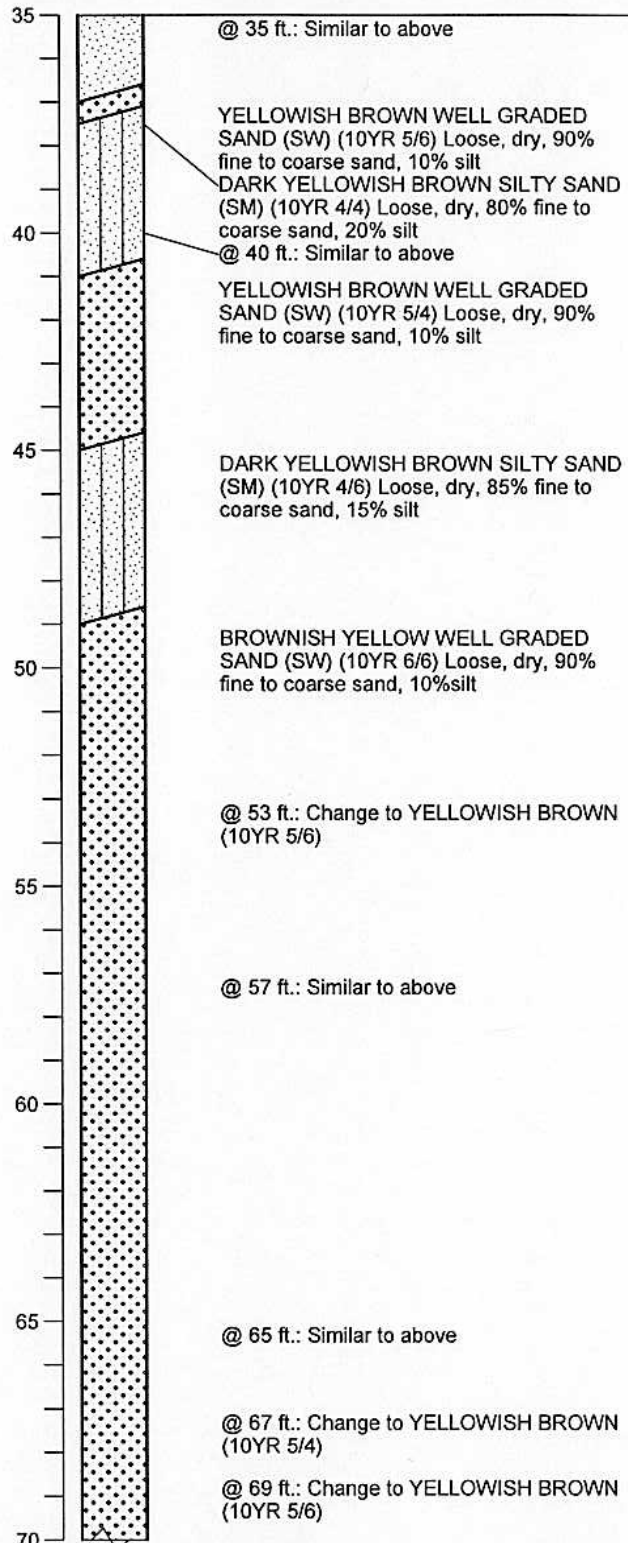
Hole Dia. 7 in.

Northing 2137526.1

Easting 5748379.3

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
188 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



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Well Construction Details and
Log of Boring MW-BW-50-180
OUCTP

PLATE

Fort Ord, California

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MBP

JOB NUMBER
55596 001701

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DATE
1/05

REVISED DATE

A66

Completion Date 6/24/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 176 ft.

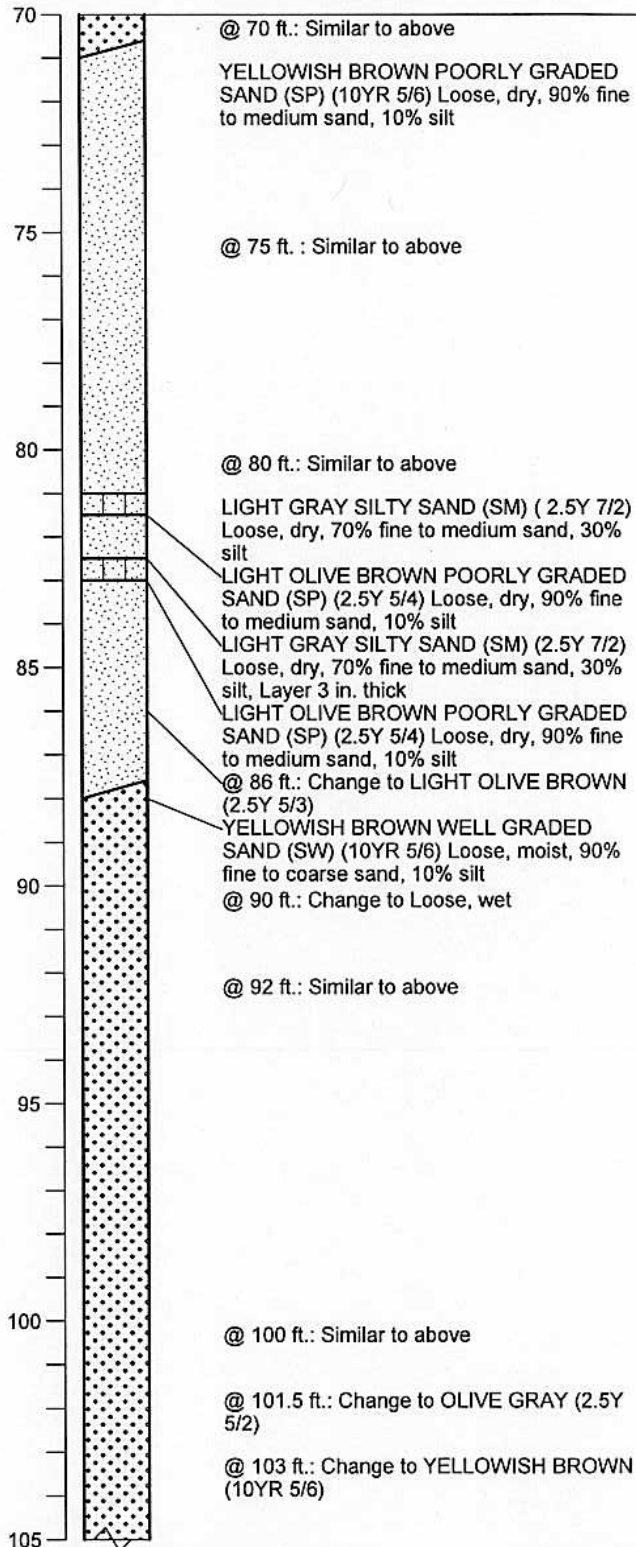
Hole Dia. 7 in.

Northing 2137526.1

Easting 5748379.3

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
188 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



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Well Construction Details and
Log of Boring MW-BW-50-180
OUCTP

PLATE

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED

MDT / cur

DATE
1/05

REVISED DATE

A66

Completion Date 6/24/2003

Drilling Method Sonic

Logged by D. Browne

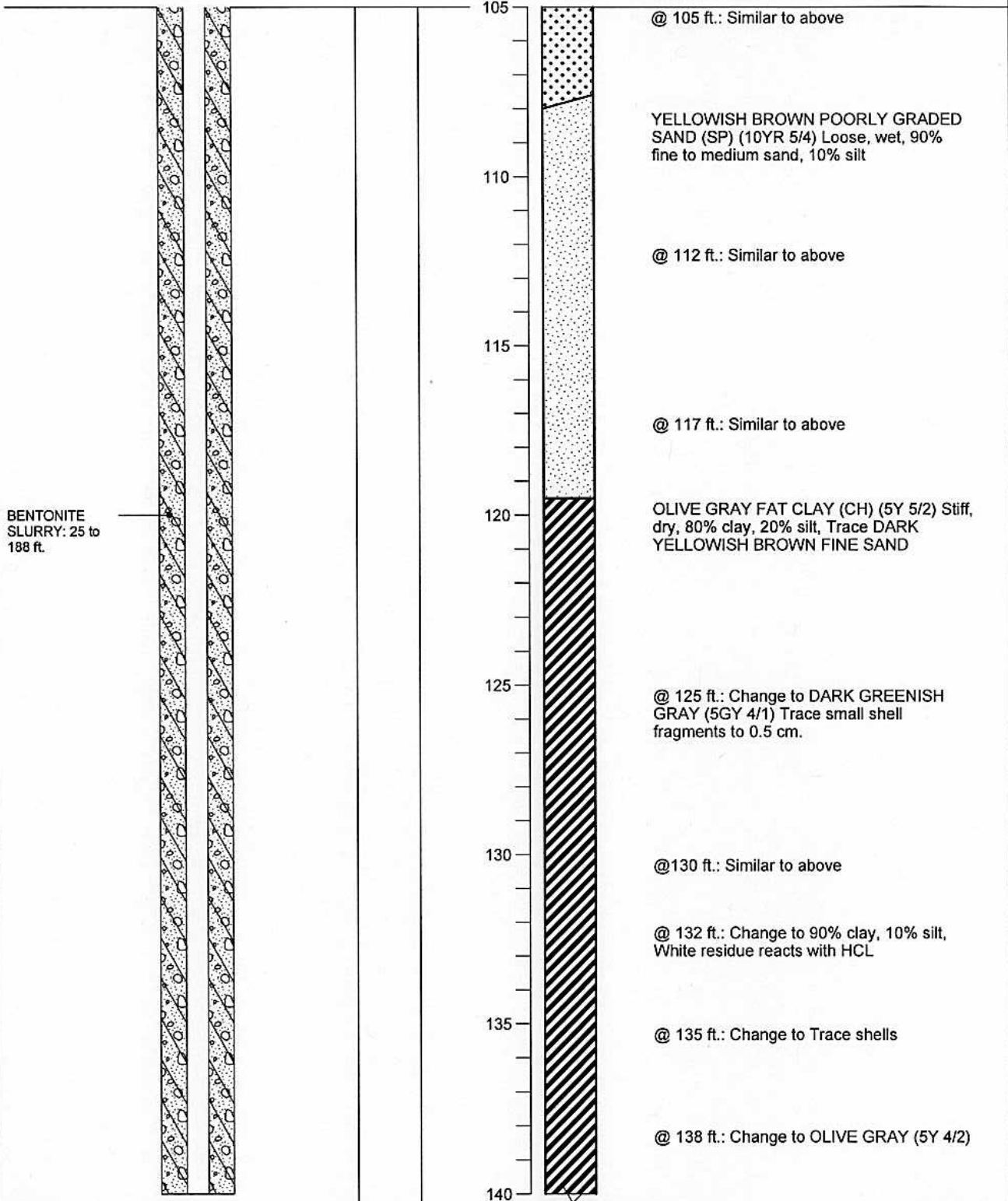
Surface Elevation 176 ft.

Hole Dia. 7 in.

Northing 2137526.1

Easting 5748379.3

Depth (ft.)
Sample



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



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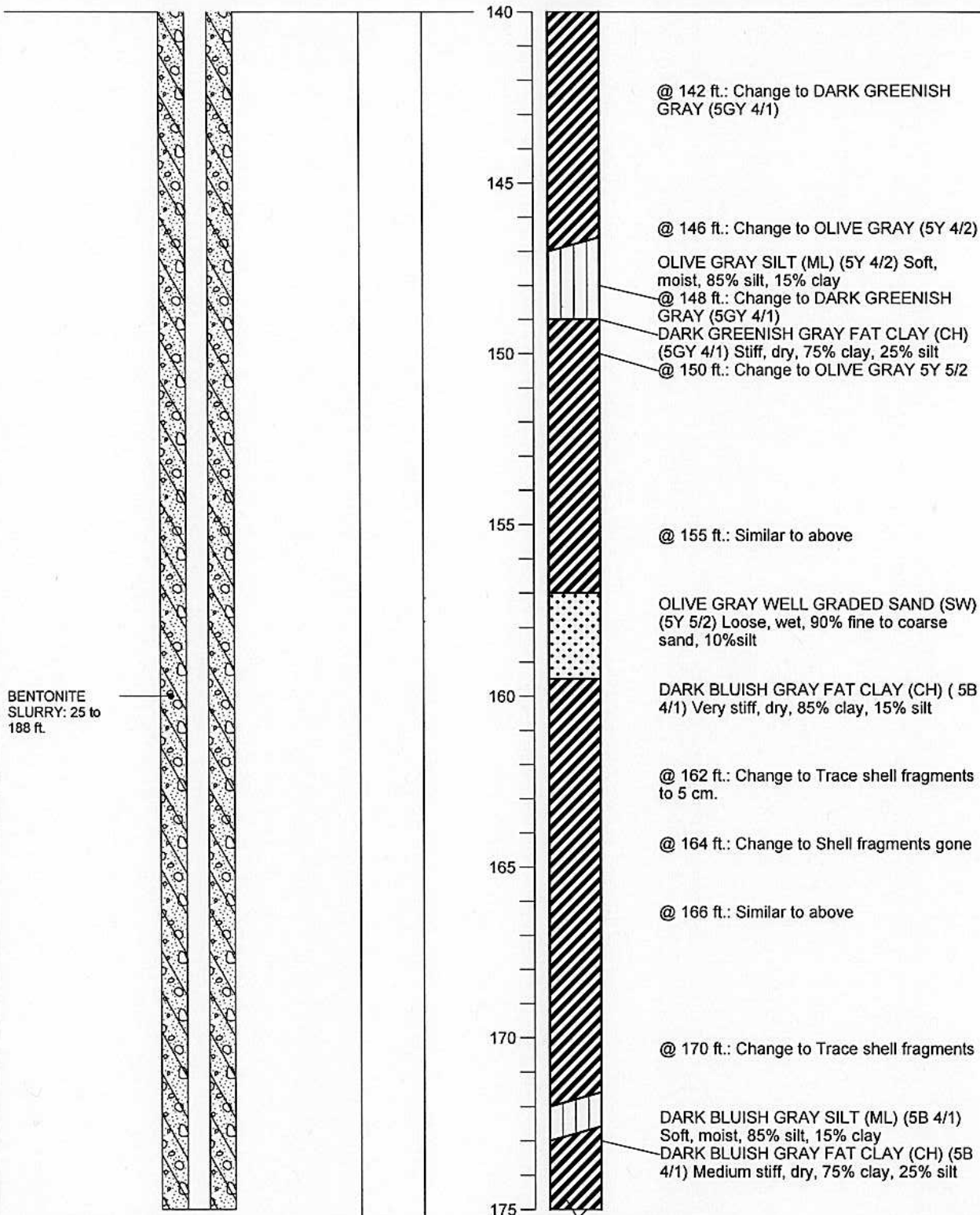
Surface Elevation 176 ft.

Hole Dia. 7 in.

Northing 2137526.1

Easting 5748379.3

Depth (ft.)
Sample



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



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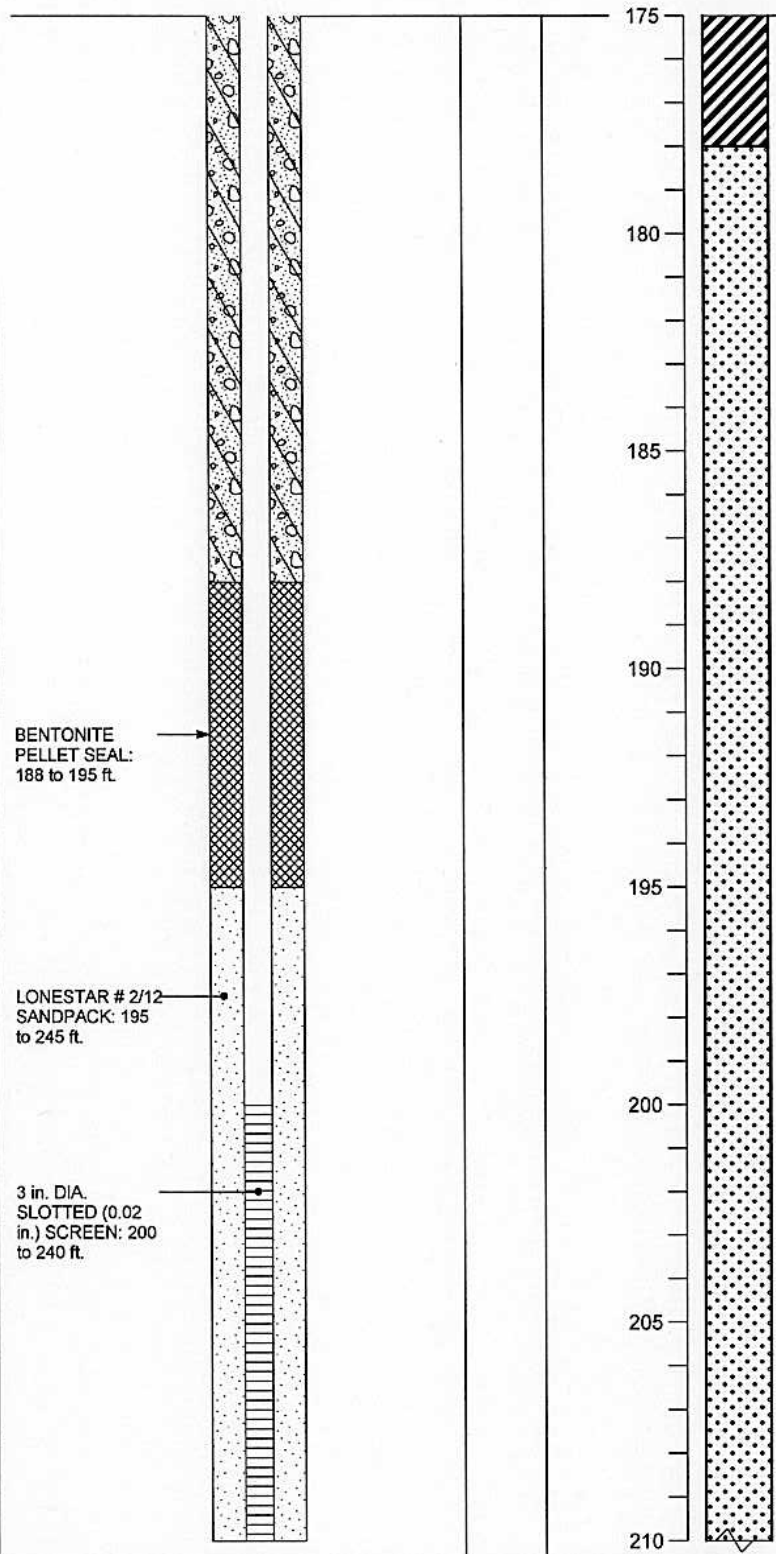
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 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 176 ft. Hole Dia. 7 in.
 Northing 2137526.1 Easting 5748379.3

Depth (ft.)
 Sample



@ 175 ft.: Change to 90% clay, 10% silt

@ 176 ft.: Change to DARK BLUIISH GRAY SANDY FAT CLAY Stiff, dry, 70% clay, 20% fine sand, 10% silt

LIGHT OLIVE BROWN WELL GRADED SAND (SW) (2.5Y 5/6) Loose, wet, 90% fine to coarse sand, 10% silt

@ 185 ft.: Similar to above

@ 190 ft.: Change to Increase in coarse sand

@ 194 ft.: Change to Increase in coarse sand (#3)

@ 200 ft.: Similar to above

@ 205 ft.: Similar to above

BORING WELL_OUCTP OUCTPV8.GPJ FTO_OUCTP.GDT 1/27/05



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Well Construction Details and
 Log of Boring MW-BW-50-180
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PLATE

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 1/05

REVISED DATE

Completion Date 6/24/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 176 ft.

Hole Dia. 7 in.

Northing 2137526.1

Easting 5748379.3

Depth (ft.)
Sample

3 in. DIA.
SLOTTED (0.02
in.) SCREEN: 200
to 240 ft.

BOTTOM WELL
CAP: 230 ft.

210

215

220

225

230

235

240

245

@ 210 ft.: Similar to above

@ 213.5 ft.: Change to Increase in coarse sand

LIGHT OLIVE BROWN POORLY GRADED SAND (SP) (2.5Y 5/3) Loose, wet, 90% fine to medium sand, 10% silt, Trace micas present

LIGHT OLIVE BROWN WELL GRADED SAND (SW) (2.5Y 5/3) Loose, wet, 90% fine to coarse sand, 10% silt

OLIVE BROWN POORLY GRADED SAND (SP) (2.5Y 4/4) Loose, wet, 90% fine to medium sand, 10% silt, Micas present

LIGHT YELLOWISH BROWN WELL GRADED SAND (SW) (2.5Y 6/4) Loose, wet, 90% fine to coarse sand, 10% silt
OLIVE BROWN POORLY GRADED SAND (SP) (2.5Y 4/4) Loose, wet, 90% fine to medium sand, 10% silt, Micas present

@ 232 ft.: Similar to above

@ 235 ft.: Similar to above

@ 240 ft.: Similar to above

BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



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OUCTP

PLATE

Fort Ord, California

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MBP

JOB NUMBER
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DATE
1/05

REVISED DATE

A66

Completion Date 6/24/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 176 ft.

Hole Dia. 7 in.

Northing 2137526.1

Easting 5748379.3

Depth (ft.)
Sample

245

@ 245 ft.: Similar to above

250

OLIVE YELLOW CLAYEY SAND (SC) (2.5Y 6/6) Loose, wet, 85% fine to coarse sand, 15% clay, Trace gravels

@ 250 ft.: Change to OLIVE BROWN (2.5Y 4/4)

255

@ 253 ft.: Change to 75% fine to coarse sand, 25% silt

LIGHT OLIVE BROWN WELL GRADED SAND (SW) (2.5Y 5/3) Loose, wet, 90% fine to coarse sand, 10% silt

260

OLIVE BROWN POORLY GRADED SAND (SP) (2.5Y 5/3) Loose, wet, 90% fine to medium sand, 10% silt

LIGHT OLIVE BROWN WELL GRADED SAND (SW) (2.5Y 5/4) Loose, wet, 90% fine to coarse sand, 10% silt

265

LIGHT OLIVE BROWN CLAYEY SAND (SC) (2.5Y 5/3) Loose, wet, 80% fine to coarse sand, 20% clay

LIGHT OLIVE BROWN WELL GRADED SAND (SW) (2.5Y 5/4) Loose, wet, 90% fine to coarse sand, 10% silt

270

LIGHT OLIVE BROWN POORLY GRADED SAND (SP) (2.5Y 5/3) Loose, wet, 90% fine to medium sand, 10% silt

LIGHT OLIVE BROWN WELL GRADED SAND (SW) (2.5Y 5/3) Loose, wet, 90% fine to coarse sand, 10% silt

275

@ 272 ft.: Similar to above
LIGHT OLIVE BROWN FAT CLAY (CH) (2.5Y 5/3) Medium stiff, moist, 85% clay, 15% rounded to subrounded mudstone gravel to 1.5 cm.

280

LIGHT OLIVE BROWN WELL GRADED SAND (SW) (2.5Y 5/3) Loose, wet, 90% fine to coarse sand, 10% silt

Backfilled with
BENTONITE
CHIPS: 245 to 286
ft.

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



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Well Construction Details and
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OUCTP

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MBP

JOB NUMBER
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DATE
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REVISED DATE

A66

Completion Date 6/24/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 176 ft.

Hole Dia. 7 in.

Northing 2137526.1

Easting 5748379.3

Depth (ft.)
Sample

Backfilled with
BENTONITE
CHIPS: 245 to 286
ft.

280

285

@ 281 ft.: Change to YELLOWISH BROWN
(10YR 5/4) Increase in coarse sand (#3)
LIGHT OLIVE BROWN WELL GRADED
SAND (SW) (2.5Y 5/3) Loose, wet, 90% fine
to coarse sand, 10% silt
LIGHT YELLOWISH BROWN FAT CLAY
(CH) (2.5Y 5/6) Stiff, dry, 80% clay, 20% silt
@ 284 ft.: Change to OLIVE GRAY (5Y 5/2)
LIGHT OLIVE BROWN POORLY GRADED
SAND (SP) (2.5Y 5/3) Loose, wet, 90% fine
to medium sand, 10% silt

Bottom of boring at 287 ft.

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



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Well Construction Details and
Log of Boring MW-BW-50-180

OUCTP

Fort Ord, California

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JOB NUMBER
55596 001701

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1/05

REVISED DATE

PLATE

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Top of PVC Casing
Elev. 182.25 ft.

GROUND SURFACE

5 in. DIAMETER
SCHEDULE 80
PVC BLANK
CASING: +1.95 to
96 ft.

12 in. DIAMETER
BOREHOLE: 0 to
130 ft.

Completion Date 5/22/2001

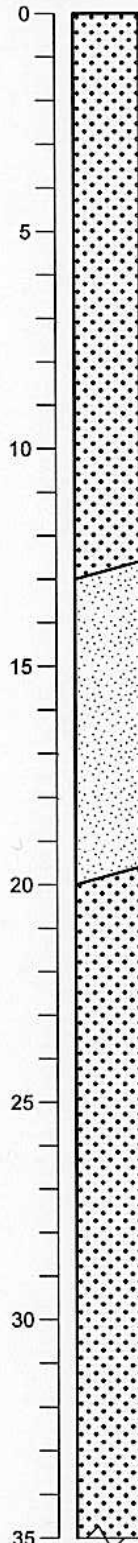
Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 180.30 ft. Hole Dia. 12 in.

Northing 2137582.318 Easting 5748400.076

Depth (ft.)
Sample



LIGHT OLIVE BROWN WELL GRADED
SAND (SW) (2.5Y 5/4) Loose, dry, 50% fine
sand, 35% medium sand, 10% fines, 5%
coarse sand

@ 1.5 ft.: Change to VERY DARK GRAY
(2.5Y 3/1) 60% fine sand, 35% medium
sand, 5% fines, no odor

@ 5 ft.: Change to DARK BROWN (7.5YR
3/3) 70% fine sand, 25% medium sand, 5%
fines

@ 8 ft.: Change to YELLOWISH BROWN
(10YR 5/6) 50% fine sand, 50% medium
sand, no odor

@ 10 ft.: Change to DARK YELLOWISH
BROWN (10YR 4/4)

YELLOW POORLY GRADED SAND (SP)
(10YR 7/6) Loose, dry, 95% fine sand, 5%
medium sand

@ 15 ft.: Change to YELLOWISH BROWN
(10YR 5/6) trace medium sand

BROWNISH YELLOW WELL GRADED
SAND (SW) (10YR 6/8) 85% fine sand,
15% medium sand, no odor

@ 30 ft.: Change to YELLOWISH BROWN
(10YR 5/6) 70% fine sand, 30% medium
sand

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-50-A

PLATE

OUCTP

Fort Ord, California

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JOB NUMBER
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DATE
11/04

REVISED DATE

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Completion Date 5/22/2001

Drilling Method Hollow Stem Auger

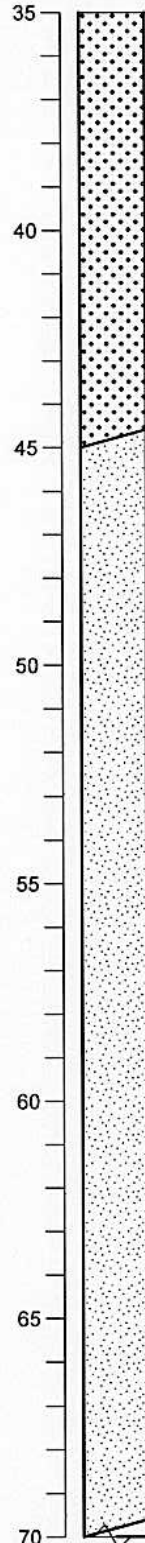
Logged by _____

Surface Elevation 180.30 ft. Hole Dia. 12 in.

Northing 2137582.318 Easting 5748400.076

Depth (ft.)
Sample

BENTONITE-
CEMENT SEAL: 0
to 85.5 ft.



@ 40 ft.: Change to BROWNISH YELLOW
(10YR 6/6) 85% fine sand, 15% medium
sand, no odor

YELLOWISH BROWN POORLY GRADED
SAND (SP) (10YR 5/4) Medium dense,
moist, 90% fine sand, 10% medium sand,
trace fines

@ 50 ft.: Change to BROWNISH YELLOW
(10YR 6/8) 85% fine sand, 10% medium
sand, 5% fines

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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PCB

JOB NUMBER
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Well Construction Details and
Log of Boring MW-BW-50-A
OUCTP

Fort Ord, California

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DATE
11/04

REVISED DATE

A67

PLATE

Completion Date 5/22/2001

Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 180.30 ft Hole Dia. 12 in.

Northing 2137582.318 Easting 5748400.076

Depth (ft.)
Sample

70

BROWNISH YELLOW WELL GRADED
SAND (SW) (10YR 6/8) Medium dense,
moist, 80% fine sand, 15% medium sand,
5% fines, no odor

75

@ 75 ft.: Change to BROWNISH YELLOW
(10YR 6/6) 75% fine sand, 20% medium
sand, 5% fines

80

85

@ 85 ft.: Trace coarse sand

90

@ 90 ft.: Change to 70% fine sand, 20%
medium sand, 10% fines

95

@ 95 ft.: Change to dense, trace coarse
sand

100

@ 100 ft.: Change to 65% fine sand, 25%
medium sand, 10% fines including small
chunks of clayey silt

105

BENTONITE
PELLET SEAL:
85.5 to 91 ft.

Lapis Lustre #2/12
SANDPACK: 91 to
127 ft.

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
Log of Boring MW-BW-50-A
OUCTP

PLATE



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Fort Ord, California

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JOB NUMBER
55596 001701

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DATE
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REVISED DATE

A67

Completion Date 5/22/2001

Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 180.30 ft. Hole Dia. 12 in.

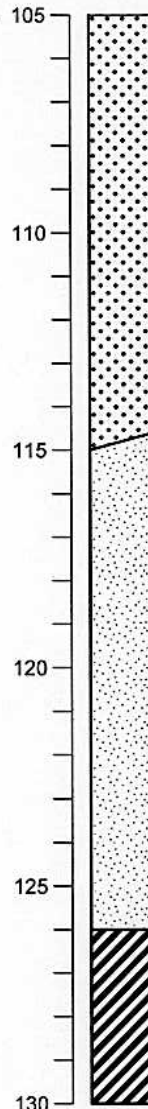
Northing 2137582.318 Easting 5748400.076

Depth (ft.)
Sample

5 in. DIAMETER
SLOTTED (0.020
in.) SCREEN: 96
to 126 ft.

BOTTOM WELL
CAP: 127 ft.
Hole cleaned out
to 127 ft.

Bottom of boring
at 130 ft.



@ 105 ft.: Change to 75% fine sand, 20%
medium sand, 5% fines, no odor

@ 108 ft.: Change to YELLOWISH BROWN
(10YR 5/6) 80% fine sand, 15% medium
sand, 5% fines

YELLOWISH BROWN POORLY GRADED
SAND (SP) Medium dense, wet, 90% fine
sand, 10% fines, no odor

@ 120 ft.: Change to YELLOWISH BROWN
(10YR 5/4) trace of mica

OLIVE FAT CLAY (CH) (5Y 4/3) Dense,
moist, >95% clay

Bottom of boring at 130 ft.

BORING WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-50-A

OUCTP

Fort Ord, California

PLATE

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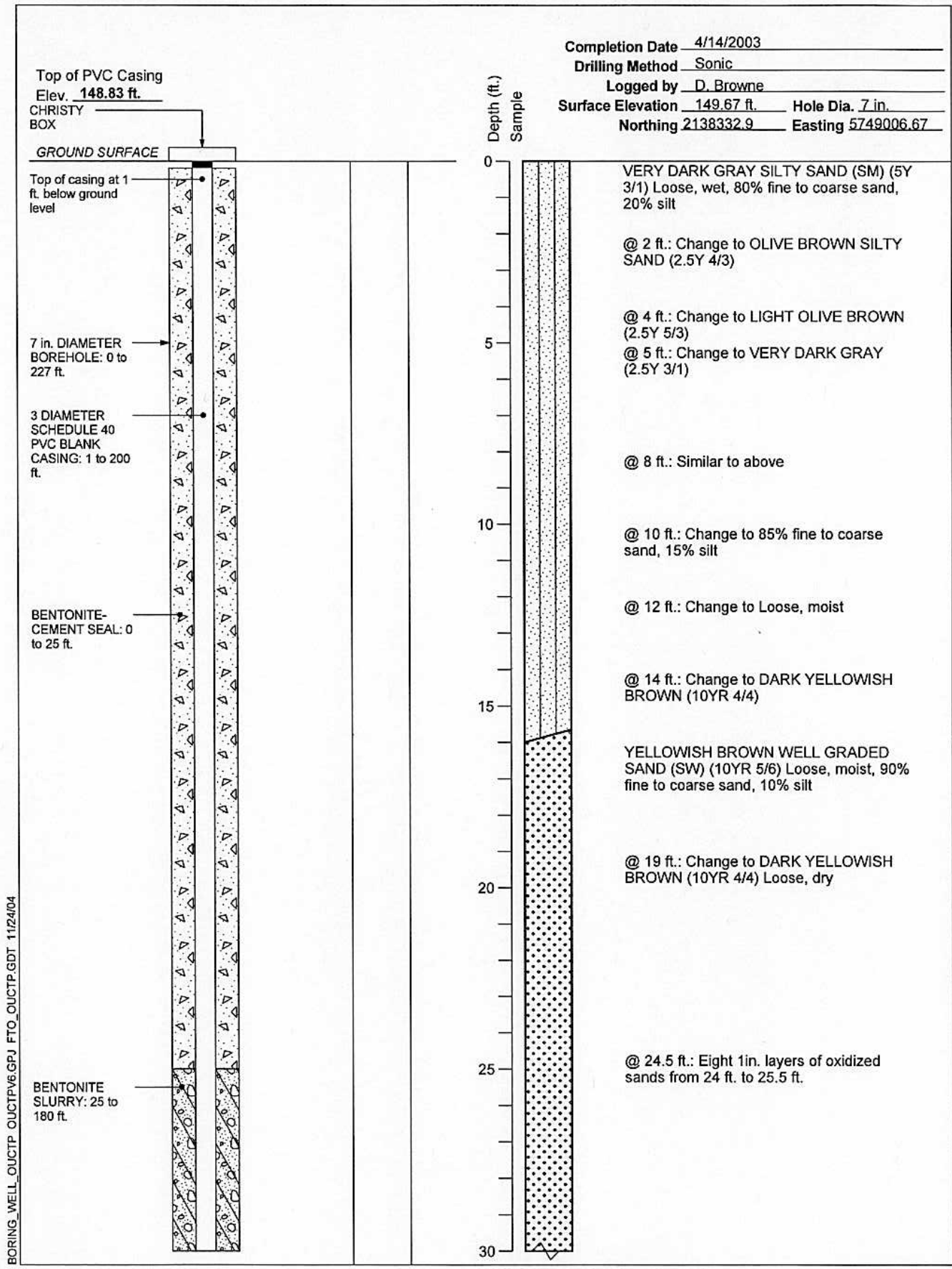
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REVISED DATE



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OUCTP

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DATE
11/04

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A68

Completion Date 4/14/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 149.67 ft.

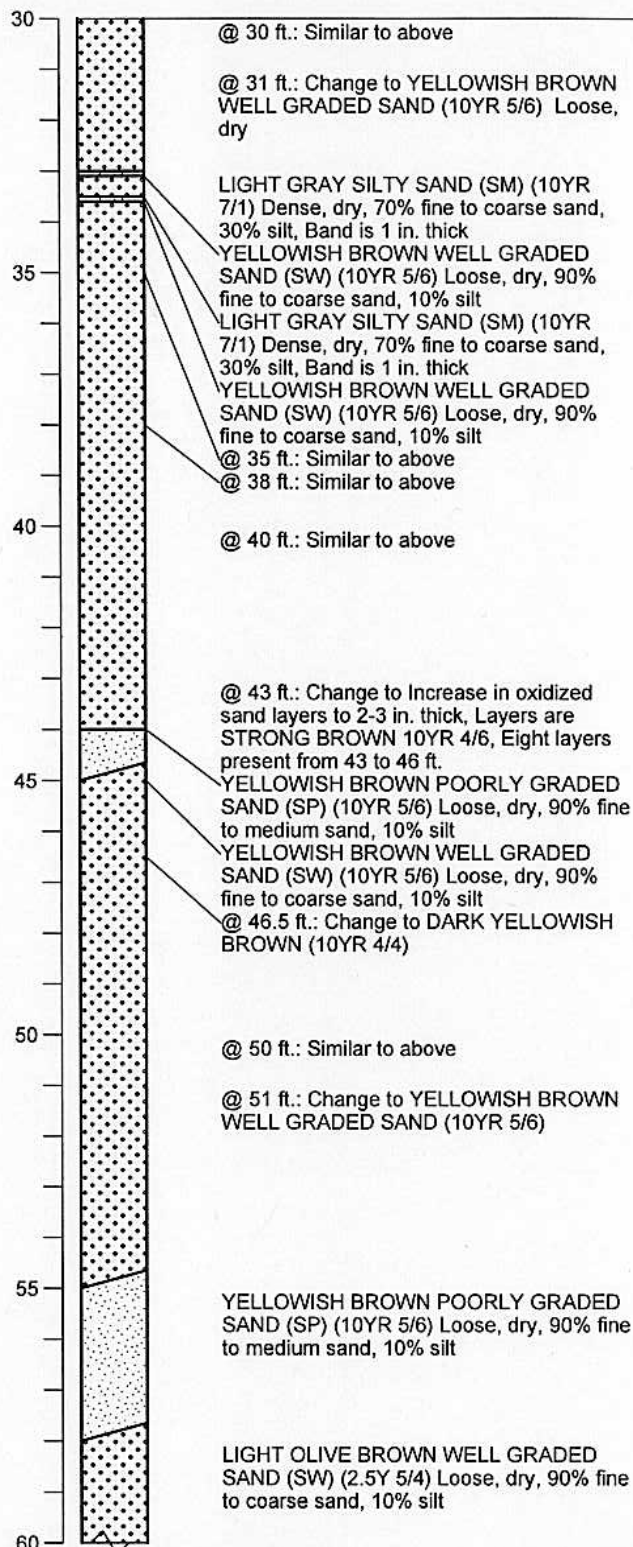
Hole Dia. 7 in.

Northing 2138332.9

Easting 5749006.67

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
180 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-51-180
OUCTP

PLATE

Fort Ord, California

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MBP

JOB NUMBER
55596 001701

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MDT / cm

DATE
11/04

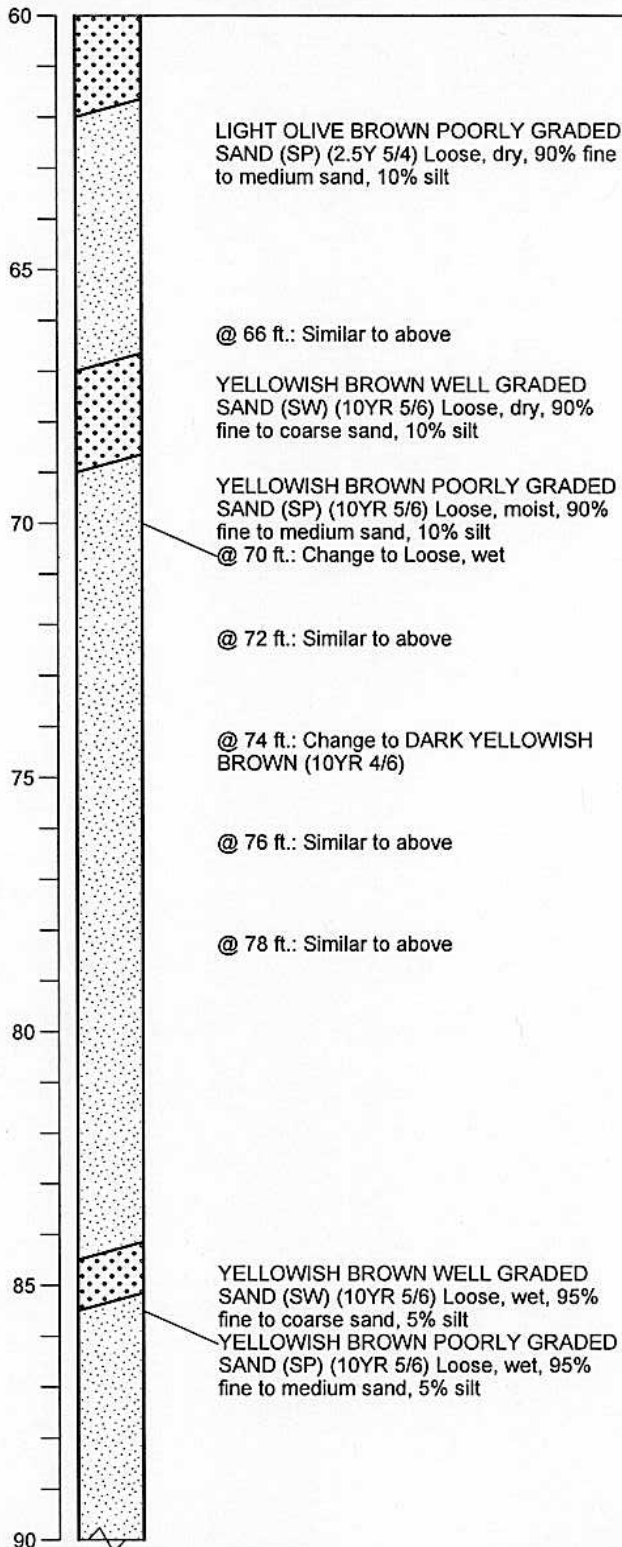
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Completion Date 4/14/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 149.67 ft. Hole Dia. 7 in.
 Northing 2138332.9 Easting 5749006.67

Depth (ft.)
 Sample

BENTONITE
 SLURRY: 25 to
 180 ft.



BORING WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MW-BW-51-180
 OUCTP

PLATE

Fort Ord, California

DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED
MDT / cm

DATE
 11/04

A68
 REVISED DATE

Completion Date 4/14/2003

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Hole Dia. 7 in.

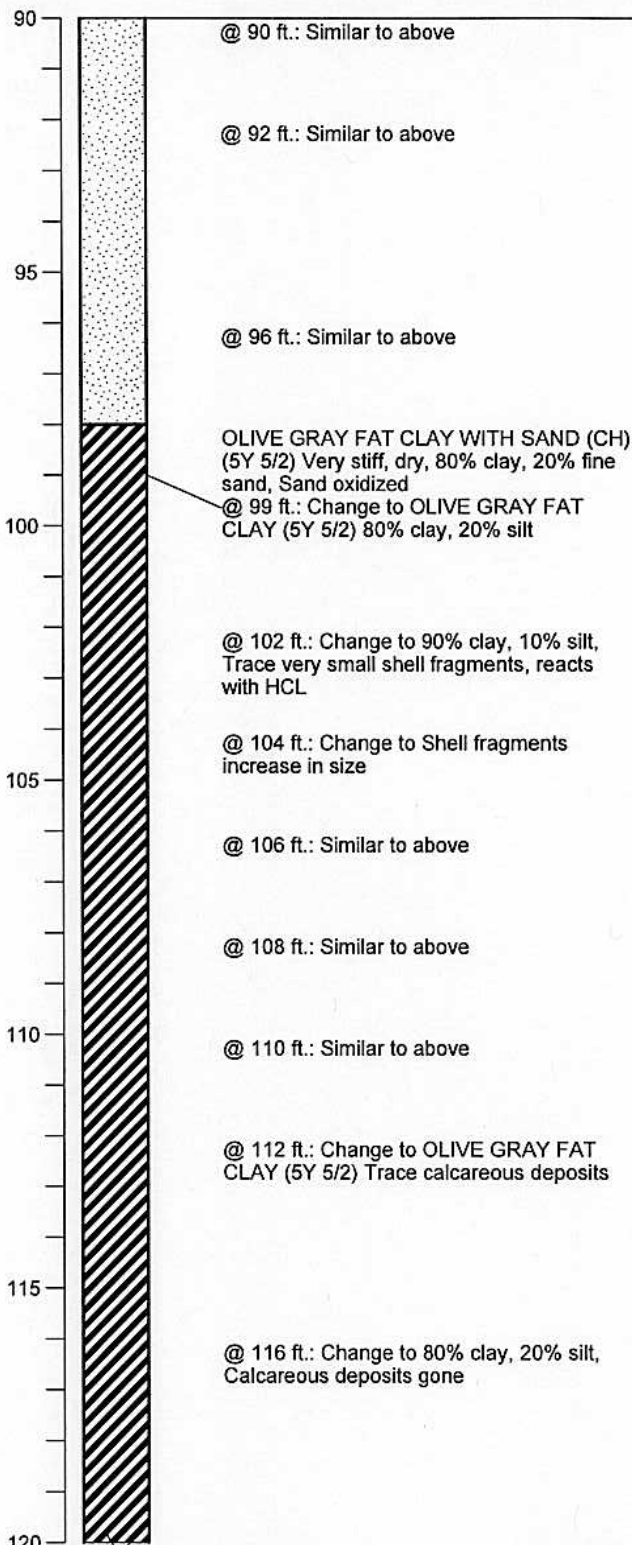
Northing 2138332.9

Easting 5749006.67

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
180 ft.

*****BEGIN
FROM HERE
WHEN DAVE
MAKES
CORRECTIONS*****



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
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OUCTP

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Fort Ord, California

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DATE
11/04

REVISED DATE

A68

Completion Date 4/14/2003

Drilling Method Sonic

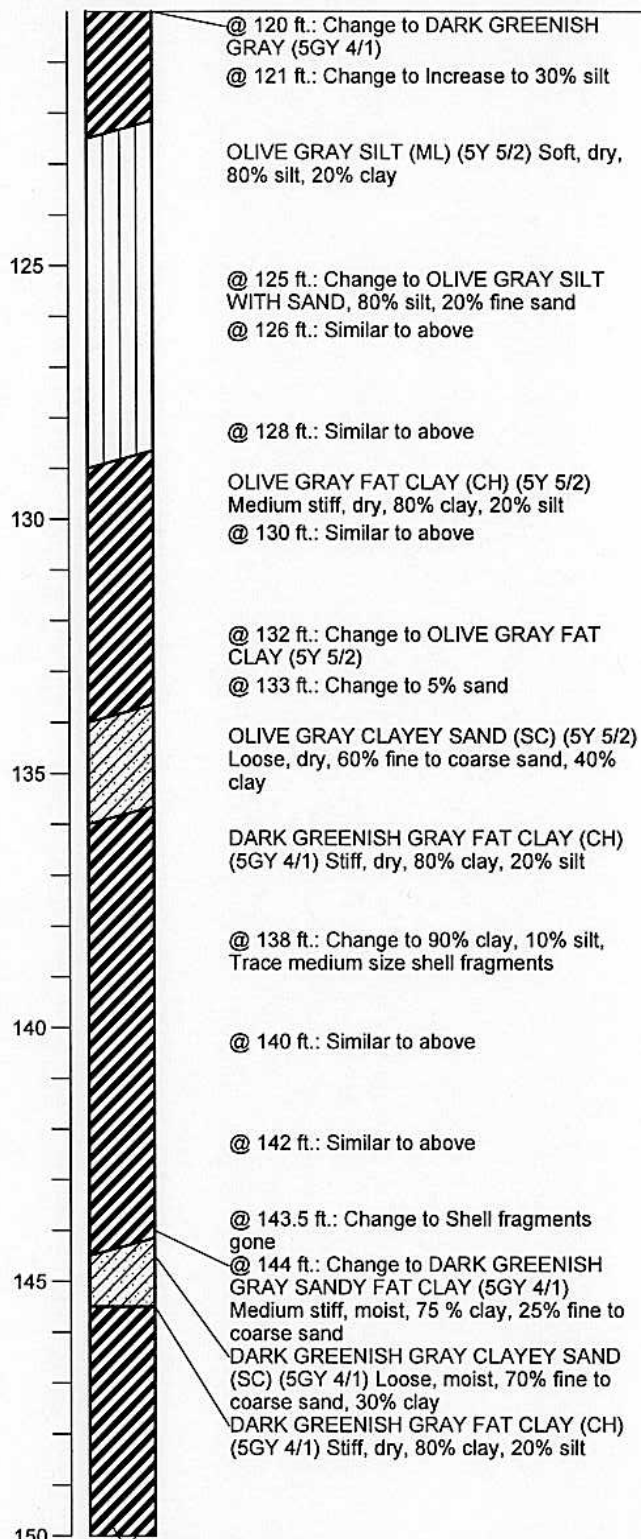
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Surface Elevation 149.67 ft. Hole Dia. 7 in.

Northing 2138332.9 Easting 5749006.67

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
180 ft.



Well Construction Details and
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OUCTP

PLATE



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DRAWN
MBP

JOB NUMBER
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APPROVED

MDT / am

DATE
11/04

REVISED DATE

A68

Completion Date 4/14/2003

Drilling Method Sonic

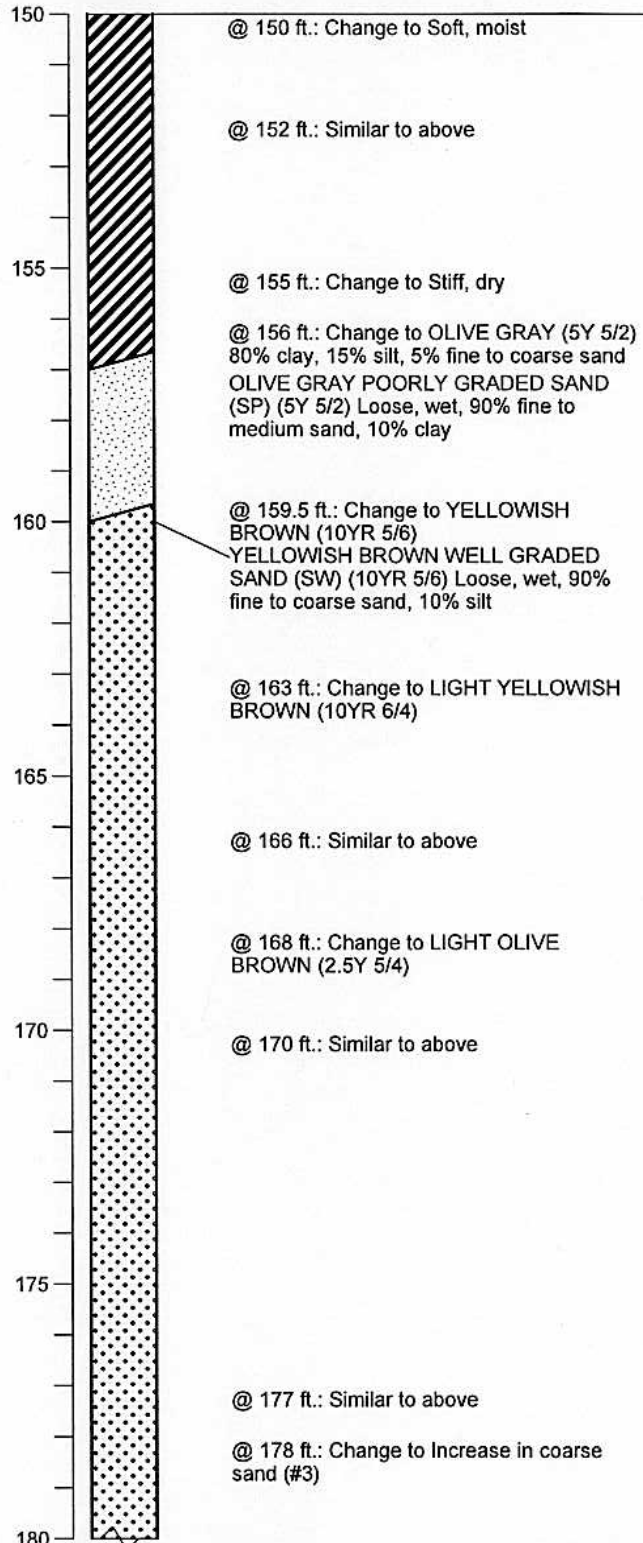
Logged by D. Browne

Surface Elevation 149.67 ft. Hole Dia. 7 in.

Northing 2138332.9 Easting 5749006.67

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
180 ft.



BORING_WELL_OUCTP OUCTPV&GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-51-180
OUCTP

PLATE

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED
MDT / cm

DATE
11/04

REVISED DATE

A68

Completion Date 4/14/2003

Drilling Method Sonic

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Surface Elevation 149.67 ft.

Hole Dia. 7 in.

Northing 2138332.9

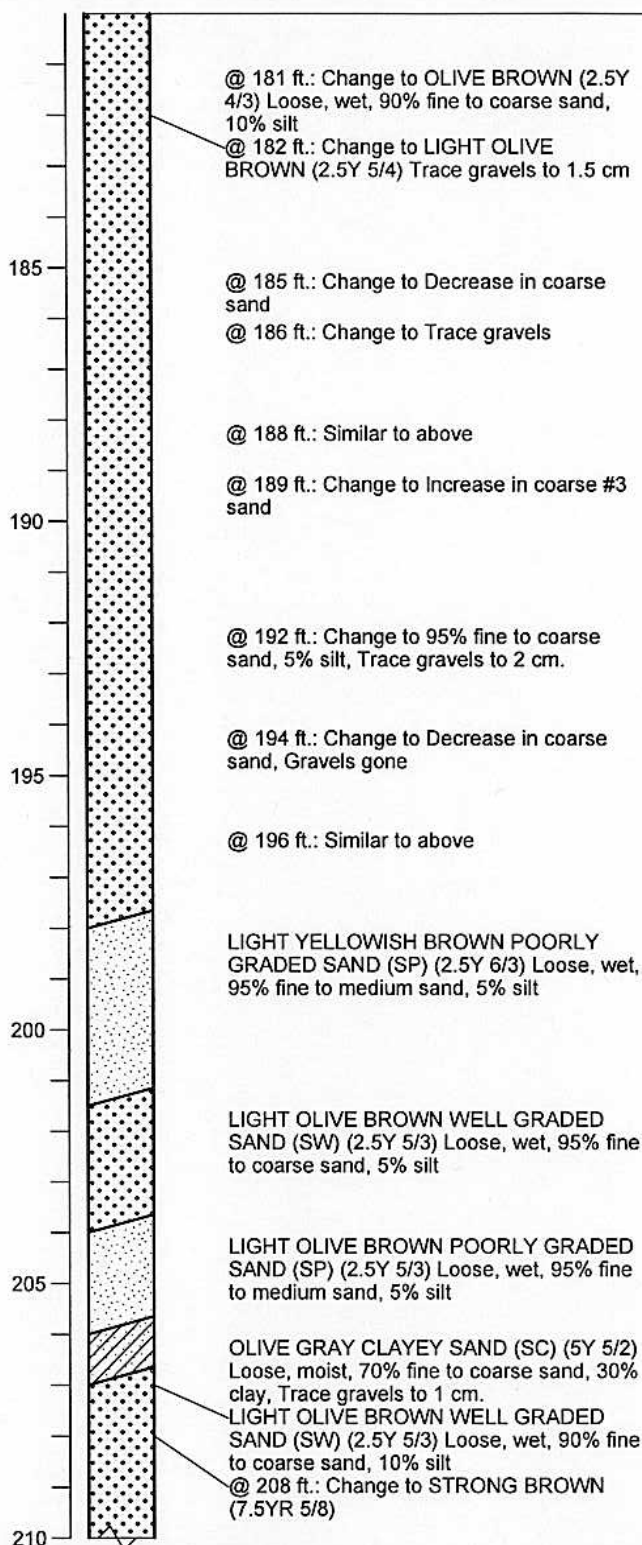
Easting 5749006.67

Depth (ft.)
Sample

BENTONITE
PELLET SEAL:
180 to 187 ft.

LONESTAR #3
SANDPACK: 187
to 221 ft.

3 in. DIAMETER
SLOTTED (0.02
in.) SCREEN: 190
to 220 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-51-180
OUCTP

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Fort Ord, California

A68

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Surface Elevation 149.67 ft. Hole Dia. 7 in.

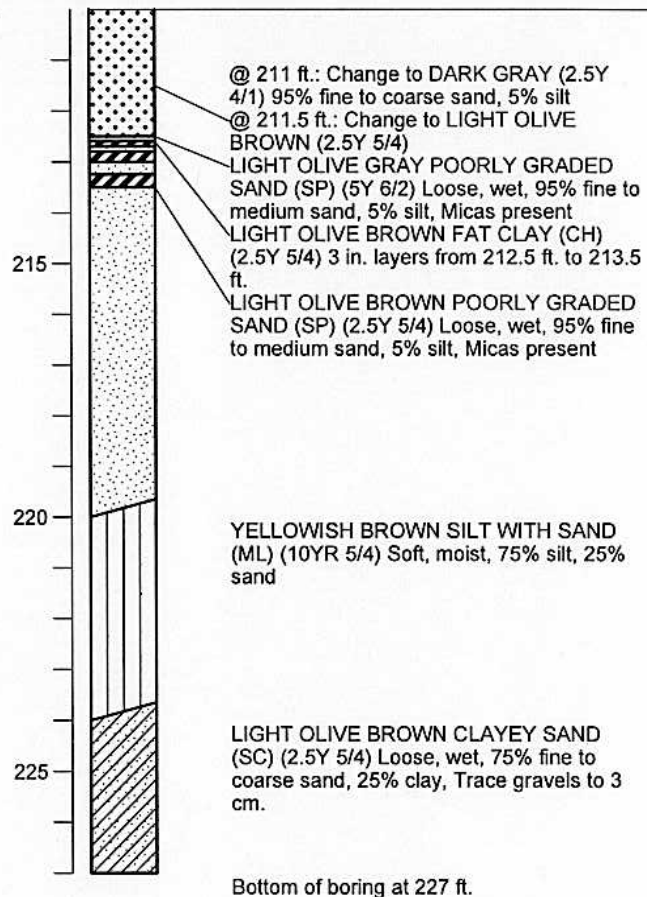
Northing 2138332.9 Easting 5749006.67

Depth (ft.)
Sample

LONESTAR # 3
SANDPACK: 187
to 221 ft.

End cap to bottom
of screen: 7 in.
BOTTOM WELL
CAP: 221 ft.

BENTONITE
CHIPS: 221 to 239
ft.



BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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PLATE

Fort Ord, California

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JOB NUMBER
55596 001701

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DATE
11/04

REVISED DATE

A68

Top of PVC Casing
Elev. 146.14 ft.

Completion Date 5/22/2001

Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 144.10 ft. Hole Dia. 12 in.

Northing 2138565.331 Easting 5748907.55

GROUND SURFACE

5 in. DIAMETER
SCHEDULE 80
PVC BLANK
CASING: +2.04 to
62 ft.

12 in. DIAMETER
BOREHOLE: 0 to
93 ft.

BENTONITE-
CEMENT SEAL: 0
to 52 ft.

Depth (ft.)
Sample

0
5
10
15
20
25
30
35

REDDISH BROWN WELL GRADED SAND
(SW) (5Y4 5/3) Loose, dry, 50% fine sand,
40% medium sand, 5% fines, 5% organic,
no odor

@ 3 ft.: Color change to DARK BROWN
(10YR 3/3) loose, moist, 60% fine sand,
40% medium sand, no odor

VERY DARK BROWN POORLY GRADED
SAND (SP) (10YR 2/2) Loose, moist, 90%
fine sand, 10% medium sand

DARK YELLOW BROWN WELL GRADED
SAND (SW) (10YR 4/4) Medium dense,
80% fine sand, 15% medium sand, 5%
fines, no odor

@ 15 ft.: Change to 60% fine sand, 35%
medium sand, 5% fines

@ 20 ft.: Color change to DARK
YELLOWISH BROWN (10YR 4/6) 55% fine
sand, 40% medium sand, 5% fines

@ 25 ft.: Change to dense

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-51-A
OUCTP

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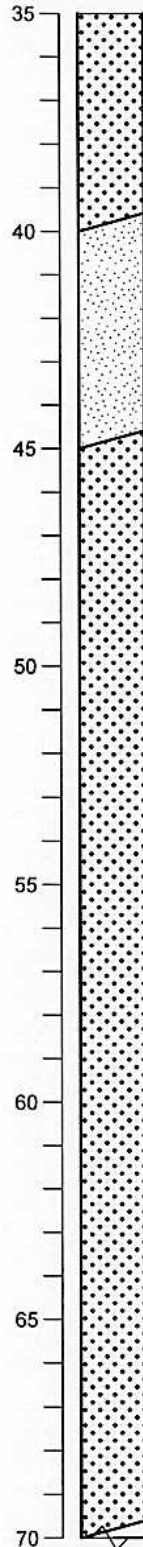
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11/04

REVISED DATE

A69

Completion Date 5/22/2001
 Drilling Method Hollow Stem Auger
 Logged by _____
 Surface Elevation 144.10 ft. Hole Dia. 12 in.
 Northing 2138565.331 Easting 5748907.55

Depth (ft.)
 Sample



@ 35 ft.: Color change to BROWNISH
 YELLOW (10YR 6/6) 50% fine sand, 45%
 medium sand, 5% fines, no odor

YELLOW POORLY GRADED SAND (SP)
 (10YR 7/6) Dense, moist, 95% fine sand,
 5% fines

YELLOW WELL GRADED SAND (SW)
 (10YR 7/6) Dense, moist, 50% fine sand,
 45% medium sand, 5% fines

@ 64 ft.: Driller notes change - possible
 water

BENTONITE
 PELLET SEAL: 52
 to 56 ft.

Lonestar #2/12
 SANDPACK: 56 to
 93 ft.

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MW-BW-51-A
 OUCTP

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 11/04

A69

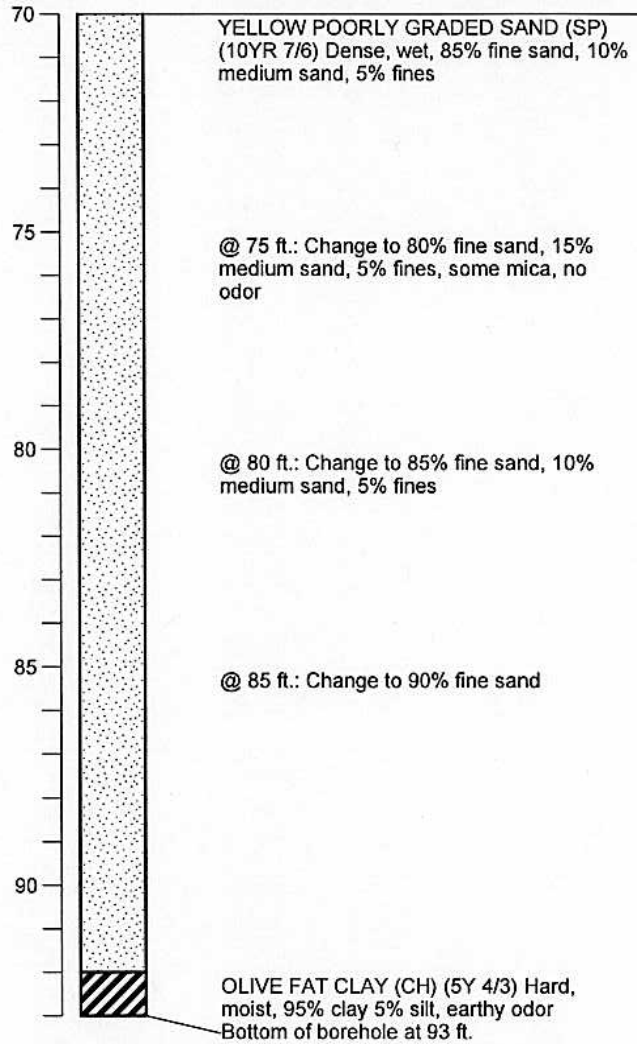
REVISED DATE

Completion Date 5/22/2001
 Drilling Method Hollow Stem Auger
 Logged by _____
 Surface Elevation 144.10 ft. Hole Dia. 12 in.
 Northing 2138565.331 Easting 5748907.55

Depth (ft.)
 Sample

5 in. DIAMETER
 SLOTTED (0.020
 in.) SCREEN: 62
 to 92 ft.

BOTTOM WELL
 CAP: 93 ft.
 Hole cleaned out
 to 93 ft. Bottom of
 boring at 93 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



Well Construction Details and
 Log of Boring MW-BW-51-A
 OUCTP

PLATE

A69

Fort Ord, California

DRAWN
 PCB

JOB NUMBER
 55596 001701

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DATE
 11/04

REVISED DATE

Top of PVC Casing
Elev. 148.47 ft.
CHRISTY
BOX

GROUND SURFACE

Top of casing at 1
ft. below ground
level

7 in. DIAMETER
BOREHOLE: 0 to
227 ft.

3 DIAMETER
SCHEDULE 40
PVC BLANK
CASING: 1 to 205
ft.

BENTONITE-
CEMENT SEAL: 2
to 25 ft.

BENTONITE
SLURRY: 25 to
155 ft.

Completion Date 4/4/2003

Drilling Method Sonic

Logged by D. Browne

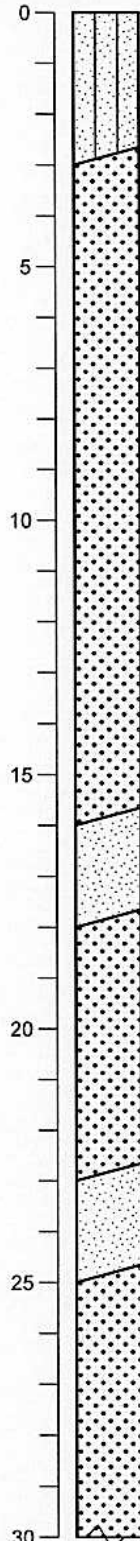
Surface Elevation 148.79 ft.

Hole Dia. 7 in.

Northing 2138916.87

Easting 5748837.11

Depth (ft.)
Sample



BROWN SILTY SAND (SM) (10YR 4/3)
Loose, dry, 80% fine to coarse sand, 20%
silt

YELLOWISH BROWN WELL GRADED
SAND (SW) (10YR 5/4) Loose, dry, 90%
fine to coarse sand, 10% silt

@ 5 ft.: Change to YELLOWISH BROWN
(10YR 5/6)

@ 6 ft.: Similar to above

@ 10 ft.: Similar to above

@ 12 ft.: Change to 95% fine to coarse
sand, 5% silt

YELLOWISH BROWN POORLY GRADED
SAND (SP) (10YR 5/6) Loose, dry, 95% fine
to medium sand, 5% silt

YELLOWISH BROWN WELL GRADED
SAND (SW) (10YR 5/4) Loose, dry, 95%
fine to coarse sand, 5% silt

YELLOWISH BROWN POORLY GRADED
SAND (SP) (10YR 5/4) Loose, dry, 95% fine
to medium sand, 5% silt

YELLOWISH BROWN WELL GRADED
SAND (SW) (10YR 5/4) Loose, dry, 95%
fine to coarse sand, 5% silt

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-52-180
OUCTP

PLATE

Fort Ord, California

A70

DRAWN
MBP

JOB NUMBER
55596 001701

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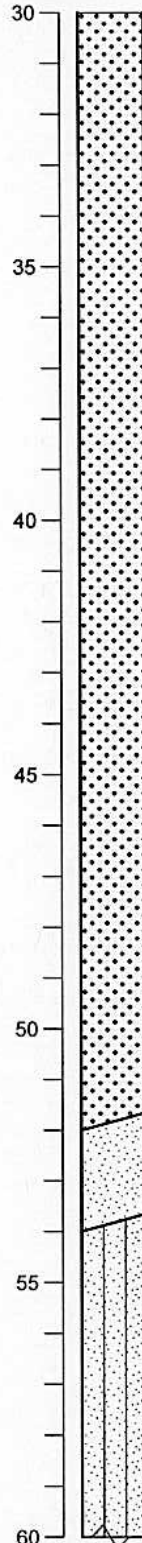
DATE
11/04

REVISED DATE

Completion Date 4/4/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 148.79 ft. Hole Dia. 7 in.
 Northing 2138916.87 Easting 5748837.11

Depth (ft.)
 Sample

BENTONITE
 SLURRY: 25 to
 155 ft.



@ 30 ft.: Similar to above

@ 32 ft.: Similar to above

@ 36 ft.: Similar to above

@ 40 ft.: Similar to above

@ 45 ft.: Similar to above

@ 50 ft.: Similar to above

DARK YELLOWISH BROWN POORLY
 GRADED SAND (SP) (10YR 4/6) Loose,
 dry, 90% fine to medium sand, 10% silt

DARK YELLOWISH BROWN SILTY SAND
 (SM) (10YR 4/6) Loose, dry, 80% fine to
 medium sand, 20% silt

@ 56 ft.: Similar to above

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MW-BW-52-180
 OUCTP

PLATE

Fort Ord, California

A70

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JOB NUMBER
 55596 001701

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DATE
 11/04

REVISED DATE

Completion Date 4/4/2003

Drilling Method Sonic

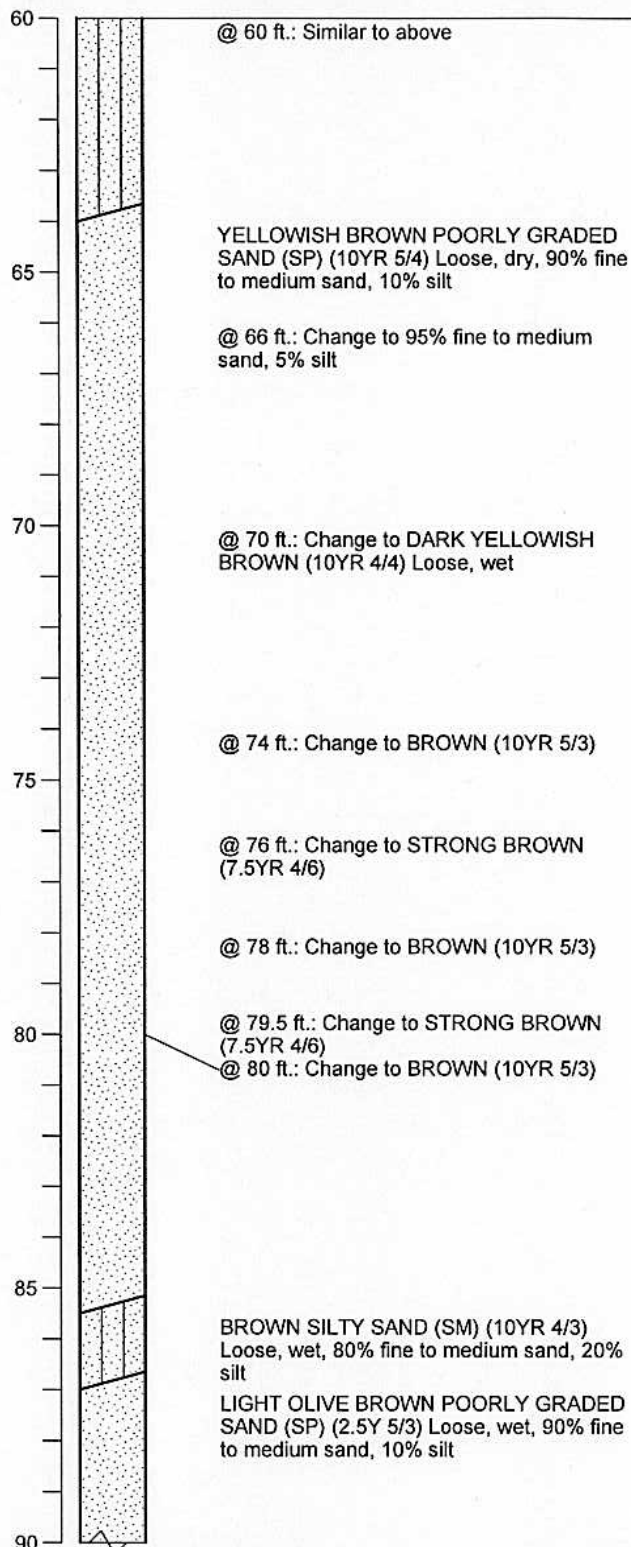
Logged by D. Browne

Surface Elevation 148.79 ft. Hole Dia. 7 in.

Northing 2138916.87 Easting 5748837.11

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
155 ft



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-52-180
OUCTP

PLATE

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

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DATE
11/04

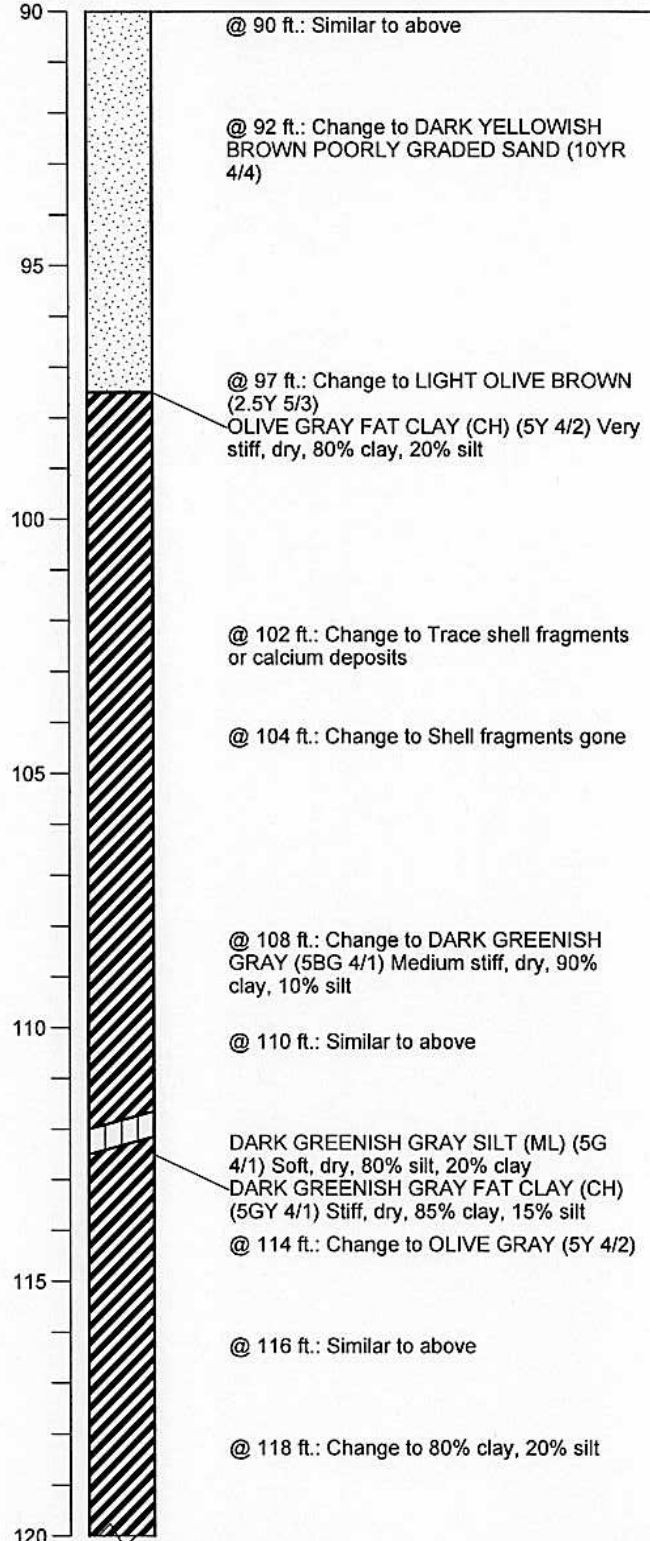
REVISED DATE

A70

Completion Date 4/4/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 148.79 ft. Hole Dia. 7 in.
 Northing 2138916.87 Easting 5748837.11

Depth (ft.)
 Sample

BENTONITE
 SLURRY: 25 to
 155 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MW-BW-52-180
 OUCTP

PLATE

A70

Fort Ord, California

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JOB NUMBER
 55596 001701

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DATE
 11/04

REVISED DATE

Completion Date 4/4/2003

Drilling Method Sonic

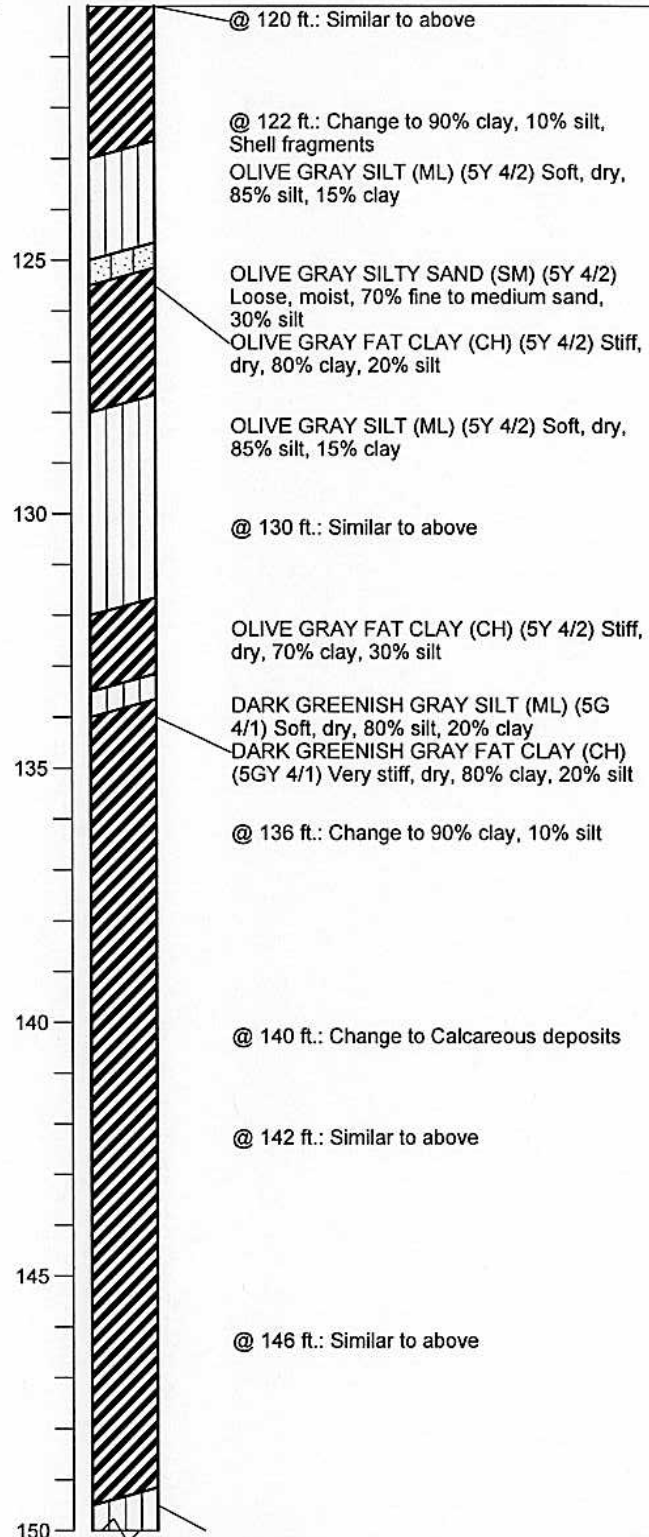
Logged by D. Browne

Surface Elevation 148.79 ft. Hole Dia. 7 in.

Northing 2138916.87 Easting 5748837.11

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
155 ft.



BORING WELL OUCTP OUCTPV6.GPJ FTO OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-52-180
OUCTP

PLATE

Fort Ord, California

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MBP

JOB NUMBER
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DATE
11/04

REVISED DATE

A70

Completion Date 4/4/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 148.79 ft. Hole Dia. 7 in.

Northing 2138916.87 Easting 5748837.11

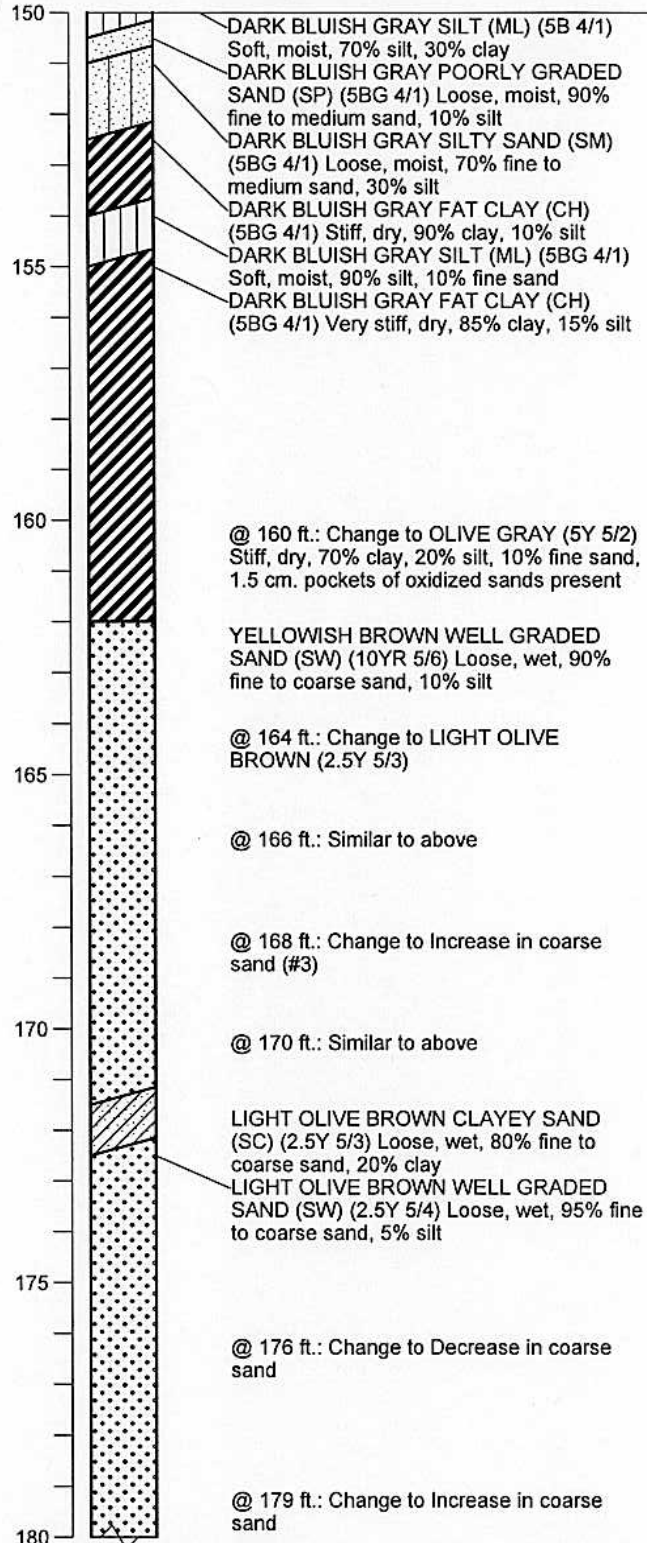
Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
155 ft.

BENTONITE
PELLET SEAL:
155 to 162 ft.

LONESTAR # 2/12
SANDPACK: 165
to 207 ft.

3 in. DIAMETER
SLOTTED (0.02
in.) SCREEN: 165
to 205 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-52-180
OUCTP

PLATE

Fort Ord, California

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JOB NUMBER
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REVISED DATE

A70

Completion Date 4/4/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 148.79 ft. Hole Dia. 7 in.

Northing 2138916.87 Easting 5748837.11

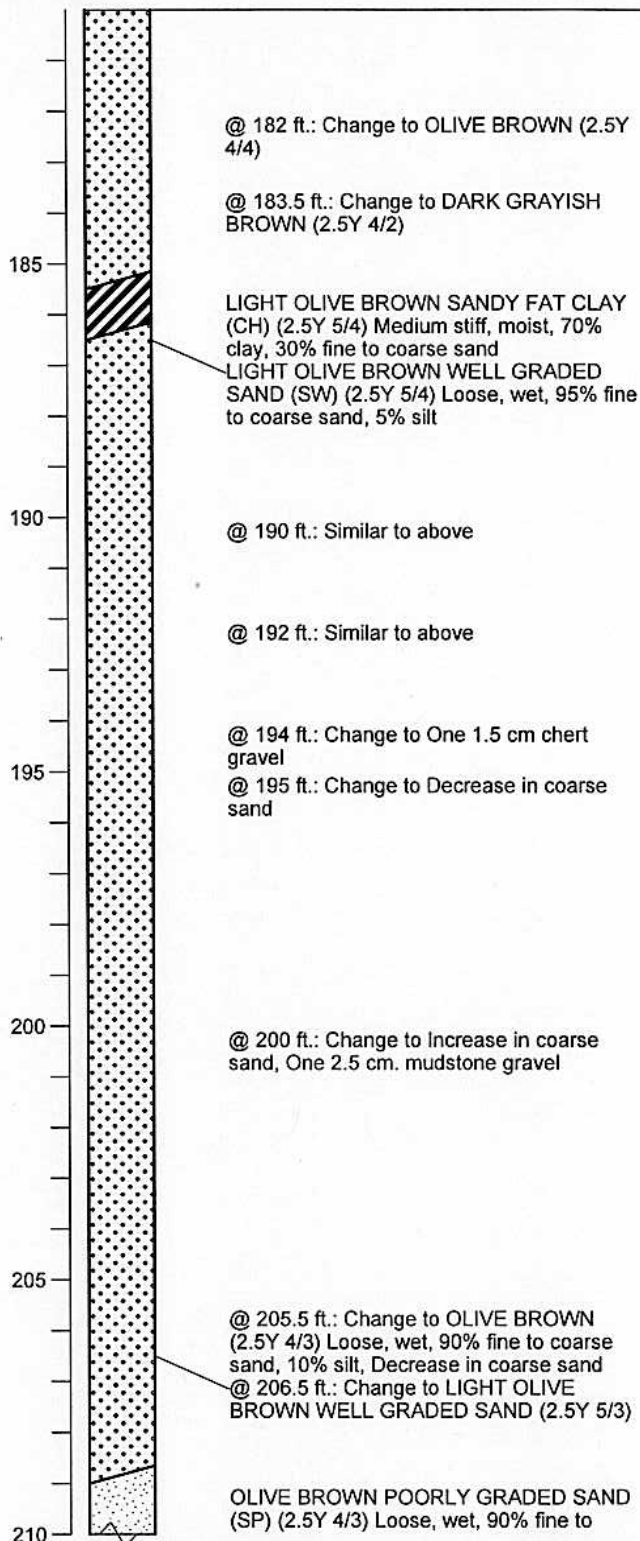
Depth (ft.)
Sample

3 in. DIAMETER
SLOTTED (0.02
in.) SCREEN: 165
to 205 ft.

LONESTAR # 2/12
SANDPACK: 165
to 207 ft.

End cap to bottom
of screen: 7 in.
BOTTOM WELL
CAP: 205 ft.

BENTONITE
CHIPS: 205 to 227
ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-52-180
OUCTP

PLATE

Fort Ord, California

A70

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JOB NUMBER
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DATE
11/04

REVISED DATE

Completion Date 4/4/2003

Drilling Method Sonic

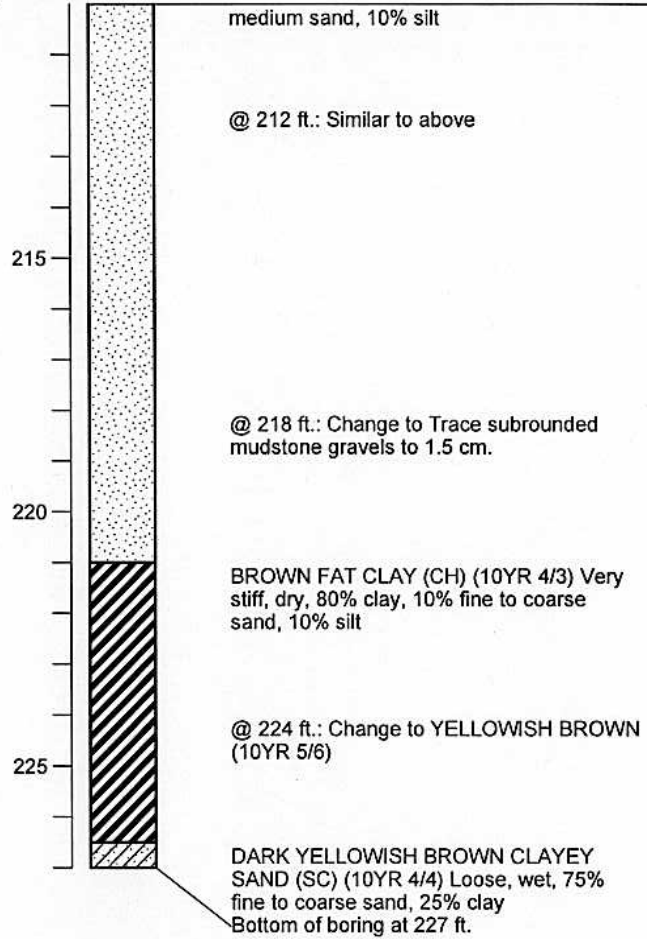
Logged by D. Browne

Surface Elevation 148.79 ft. Hole Dia. 7 in.

Northing 2138916.87 Easting 5748837.11

Depth (ft.)
Sample

BENTONITE
CHIPS: 205 to 227
ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-52-180
OUCTP

Fort Ord, California

PLATE

A70

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED
MDT/cm

DATE
11/04

REVISED DATE

Top of PVC Casing
Elev. 158.97 ft.

GROUND SURFACE

5 in. DIAMETER
SCHEDULE 80
PVC BLANK
CASING: +1.97 to
76 ft.

12 in. DIAMETER
BOREHOLE: 0 to
107 ft.

BENTONITE-
CEMENT SEAL: 0
to 67 ft.

Completion Date 5/16/2001

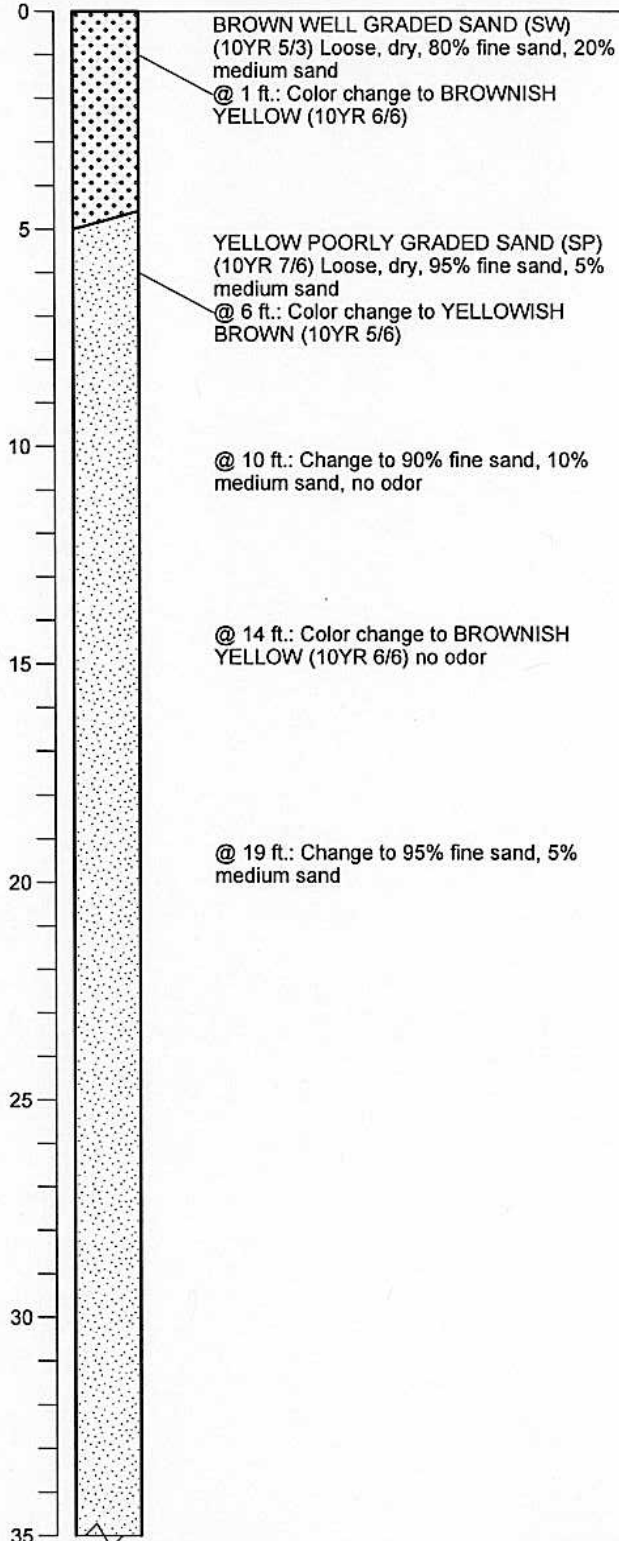
Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 157.00 ft. Hole Dia. 12 in.

Northing 2138993.07 Easting 5748697.023

Depth (ft.)
Sample



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-52-A

OUCTP

Fort Ord, California

PLATE

A71

DRAWN
PCB

JOB NUMBER
55596 001701

APPROVED
MDT/Cur

DATE
11/04

REVISED DATE

Completion Date 5/16/2001

Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 157.00 ft. Hole Dia. 12 in.

Northing 2138993.07 Easting 5748697.023

Depth (ft.)
Sample

35

@ 35 ft.: Color change to YELLOWISH
BROWN (10YR 5/6) 85% fine sand, 15%
medium sand

40

@ 40 ft.: Color change to BROWNISH
YELLOW (10YR 6/6) 100% fine sand

45

50

55

@ 55 ft.: Color change to YELLOWISH
BROWN (10YR 6/6) moist, 90% fine sand,
10% medium sand

60

@ 60 ft.: Color change to BROWNISH
YELLOW (10YR 6/8), 100% fine sand
BROWNISH YELLOW WELL GRADED
SAND (SM) (10YR 6/6) Dense, moist, 50%
fines, 40% fine sand, 10% medium sand,
possible paleosol
BROWNISH YELLOW POORLY GRADED
SAND (SP) Loose, moist, 90% fine sand,
10% medium sand

65

70

BENTONITE
PELLET SEAL: 67
to 71 ft.

BORING_WELL_OUCTP OUCTPV&GPJ FTO_OUCTP.GDT 11/24/04



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DRAWN
PCB

JOB NUMBER
55596 001701

Well Construction Details and
Log of Boring MW-BW-52-A
OUCTP

Fort Ord, California

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MDT / cm

DATE
11/04

REVISED DATE

A71

PLATE

Completion Date 5/16/2001

Drilling Method Hollow Stem Auger

Logged by _____

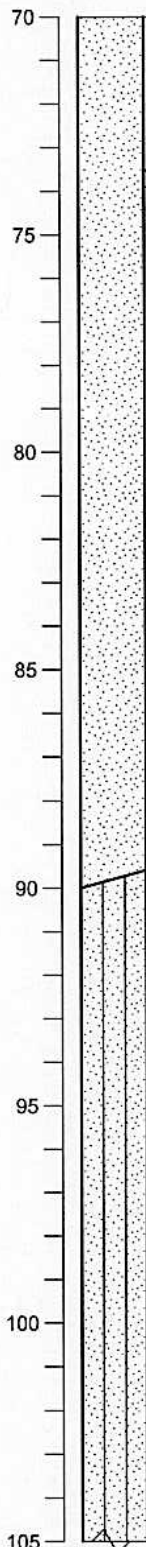
Surface Elevation 157.00 ft. Hole Dia. 12 in.

Northing 2138993.07 Easting 5748697.023

Depth (ft.)
Sample

Lapis Lustre #3
SANDPACK: 71 to
107 ft.

5 in. DIAMETER
SLOTTED (0.020
in.) SCREEN: 76
to 106 ft.



@ 80 ft.: Change to medium dense, wet

@ 85 ft.: Color change to BROWNISH
YELLOW (10YR 6/8), wet, 85% fine sand,
10% medium sand, 5% fines, no odor

YELLOWISH BROWN SILTY SAND (SM)
(10YR 5/8) Dense, wet, 70% fine sand, 20%
silt, 10% medium sand

BORING_WELL_OUCTP_OUCTPV8.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-52-A
OUCTP

Fort Ord, California

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PCB

JOB NUMBER
55596 001701

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DATE
11/04

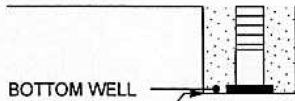
REVISED DATE

A71

PLATE

Completion Date 5/16/2001
 Drilling Method Hollow Stem Auger
 Logged by _____
 Surface Elevation 157.00 ft. Hole Dia. 12 in.
 Northing 2138993.07 Easting 5748697.023

Depth (ft.)
 Sample



BOTTOM WELL
 CAP: 107 ft.
 Hole cleaned out to
 107 ft. Bottom of
 borehole at 107 ft.

105



OLIVE GRAY FAT CLAY (CH) (5Y 4/2)
 Hard, moist, 95% clay, 5% fine gravel
 Bottom of borehole at 107 ft.

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MW-BW-52-A
 OUCTP

Fort Ord, California

PLATE

A71

DRAWN
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JOB NUMBER
 55596 001701

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DATE
 11/04

REVISED DATE

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Top of PVC Casing
Elev. 170.88 ft.
CHRISTY
BOX

GROUND SURFACE

Top of casing at 1
ft. below ground
level

7 in. DIAMETER
BOREHOLE: 0 to
237 ft.

3 DIAMETER
SCHEDULE 40
PVC BLANK
CASING: 1 to 221
ft.

BENTONITE-
CEMENT SEAL: 2
to 25 ft.

BENTONITE
SLURRY: 25 to
179 ft.

Completion Date 4/12/2003

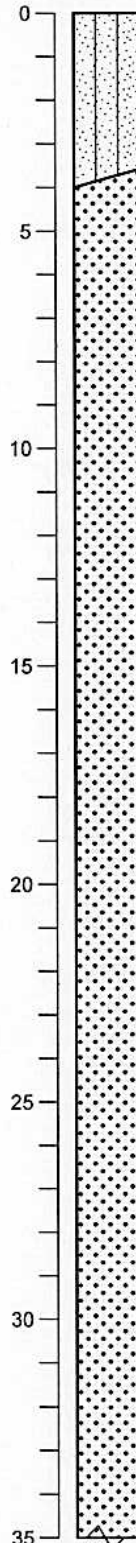
Drilling Method Sonic

Logged by D. Browne

Surface Elevation 171.47 ft. Hole Dia. 7 in.

Northing 2138987.73 Easting 5748120.7

Depth (ft.)
Sample



VERY DARK GRAY SILTY AND (SM) (2.5Y 3/1) Loose, wet, 80% fine to coarse sand, 20% silt

@ 3 ft.: Change to DARK GRAYISH BROWN (2.5Y 4/2) Loose, dry, 85% fine to coarse sand, 15% silt

DARK GRAYISH BROWN WELL GRADED SAND (SW) (2.5Y 4/2) Lose, dry, 90% fine to coarse sand, 10% silt

@ 6 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/4)

@ 10 ft.: Change to YELLOWISH BROWN (10YR 5/4)

@ 12 ft.: Similar to above

@ 15 ft.: Similar to above

@ 20 ft.: Similar to above

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above

@ 32 ft.: Similar to above



DRAWN
MBP

JOB NUMBER
55596 001701

Fort Ord, California

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DATE
11/04

REVISED DATE

Well Construction Details and
Log of Boring MW-BW-53-180
OUCTP

PLATE

A72

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Completion Date 4/12/2003

Drilling Method Sonic

Logged by D. Browne

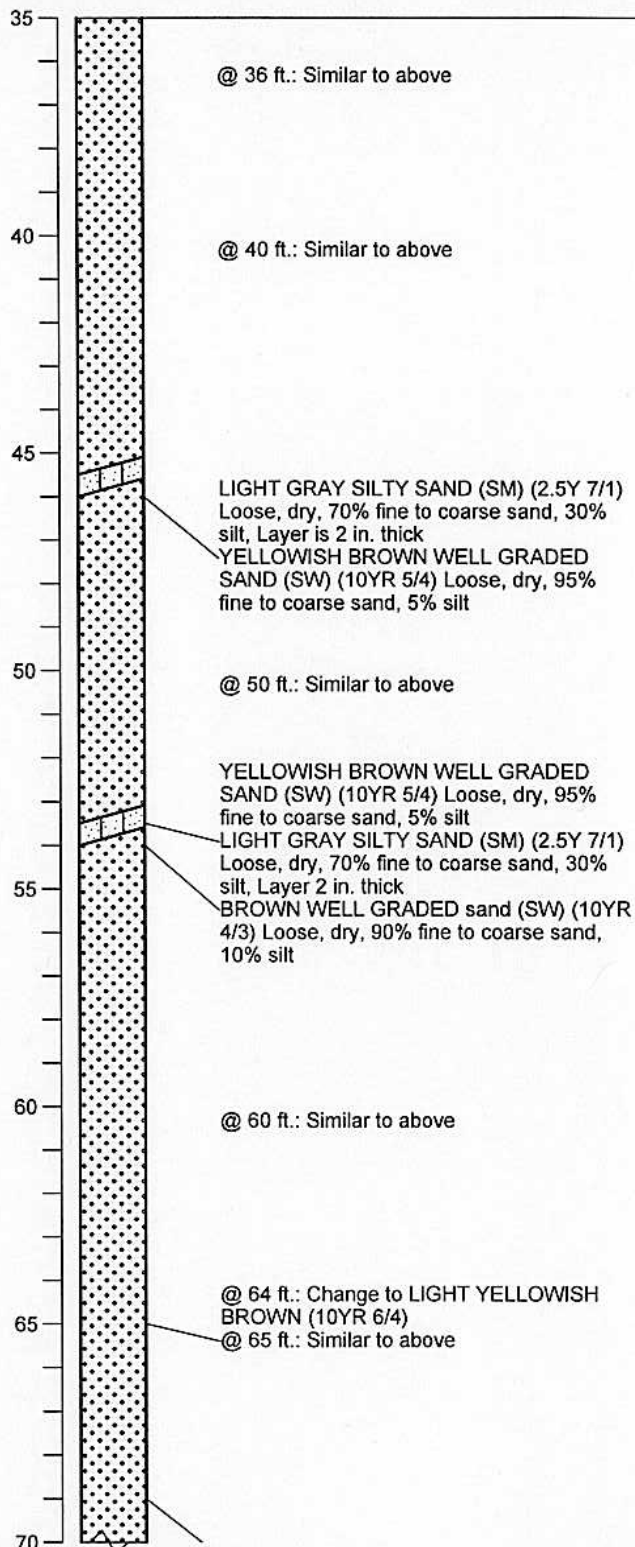
Surface Elevation 171.47 ft

Hole Dia. 7 in.

Northing 2138987.73

Easting 5748120.7

Depth (ft.)
Sample



Well Construction Details and
Log of Boring MW-BW-53-180
OUCTP

PLATE



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Fort Ord, California

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JOB NUMBER
55596 001701

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DATE
11/04

REVISED DATE

A72

Completion Date 4/12/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 171.47 ft.

Hole Dia. 7 in.

Northing 2138987.73

Easting 5748120.7

BENTONITE
SLURRY: 25 to
179 ft.

Depth (ft.)
Sample

70
75
80
85
90
95
100
105

@ 69 ft.: Change to YELLOWISH BROWN
(10YR 5/6)

@ 70 ft.: Similar to above

@ 72 ft.: Similar to above

@ 76 ft.: Similar to above

@ 80 ft.: Similar to above

@ 86 ft.: Change to Loose, wet

@ 90 ft.: Similar to above

@ 92 ft.: Similar to above

LIGHT GRAY SILTY SAND (SM) (2.5Y 7/1)
Loose, dry, 70% fine to coarse sand, 30%
silt, layer is 1 in. thick

YELLOWISH BROWN WELL GRADED
SAND (SW) (10YR 5/4) Loose, wet, 90%
fine to coarse sand, 10% silt

DARK YELLOWISH BROWN POORLY
GRADED SAND (SP) (10YR 4/4) Loose,
wet, 95% fine to medium sand, 5% silt

DARK YELLOWISH BROWN WELL
GRADED SAND (SW) (10YR 4/4) Loose,
wet, 95% fine to coarse sand, 5% silt
DARK YELLOWISH BROWN POORLY
GRADED SAND (SP) (10YR 4/4) Loose,

BORING WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-53-180
OUCTP

PLATE

Fort Ord, California

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JOB NUMBER
55596 001701

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DATE
11/04

A72
REVISED DATE

Completion Date 4/12/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 171.47 ft.

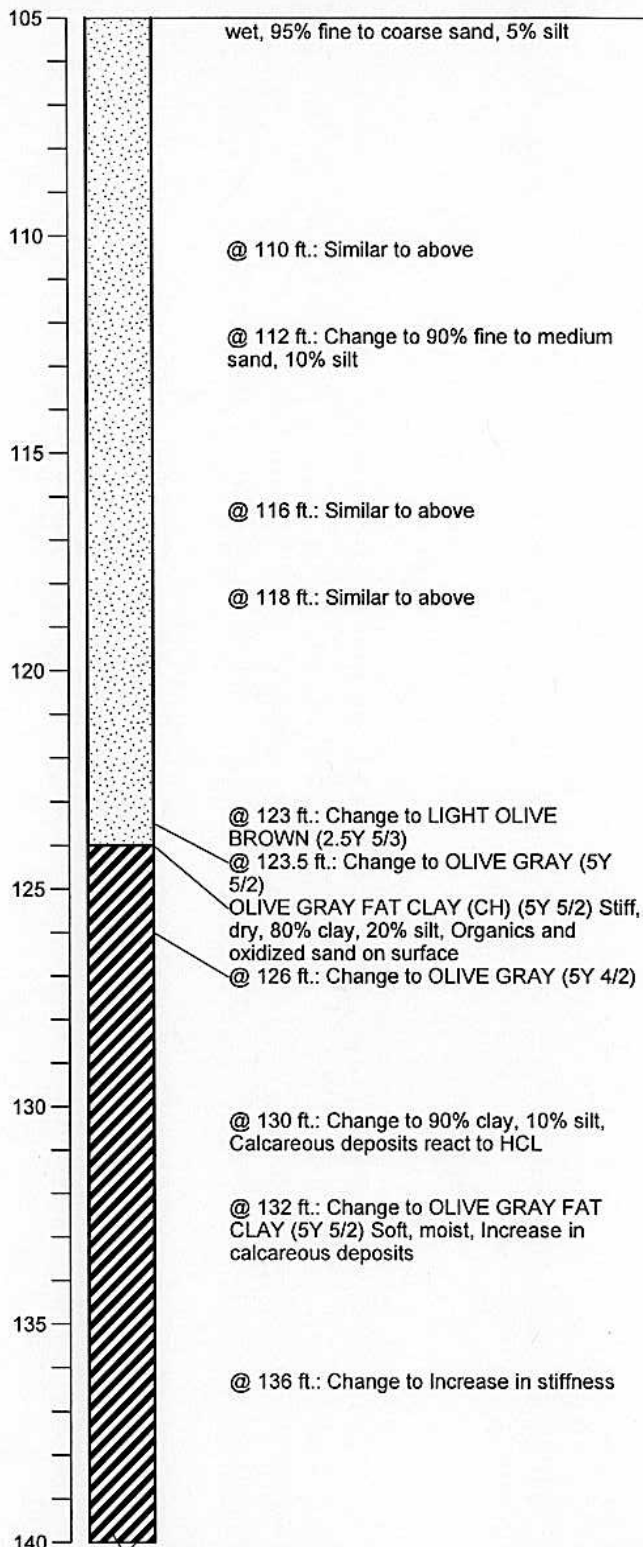
Hole Dia. 7 in.

Northing 2138987.73

Easting 5748120.7

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
179 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ_FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-53-180
OUCTP

PLATE

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED

MDT / CM

DATE
11/04

REVISED DATE

A72

Completion Date 4/12/2003

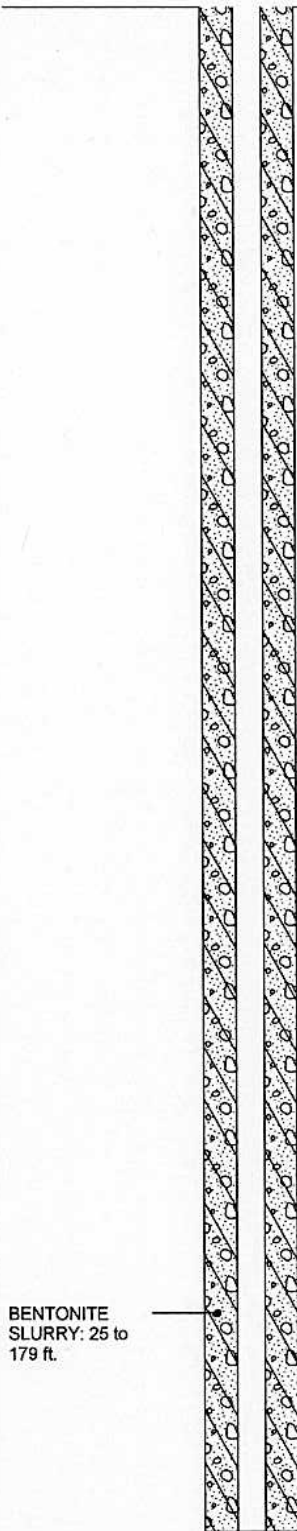
Drilling Method Sonic

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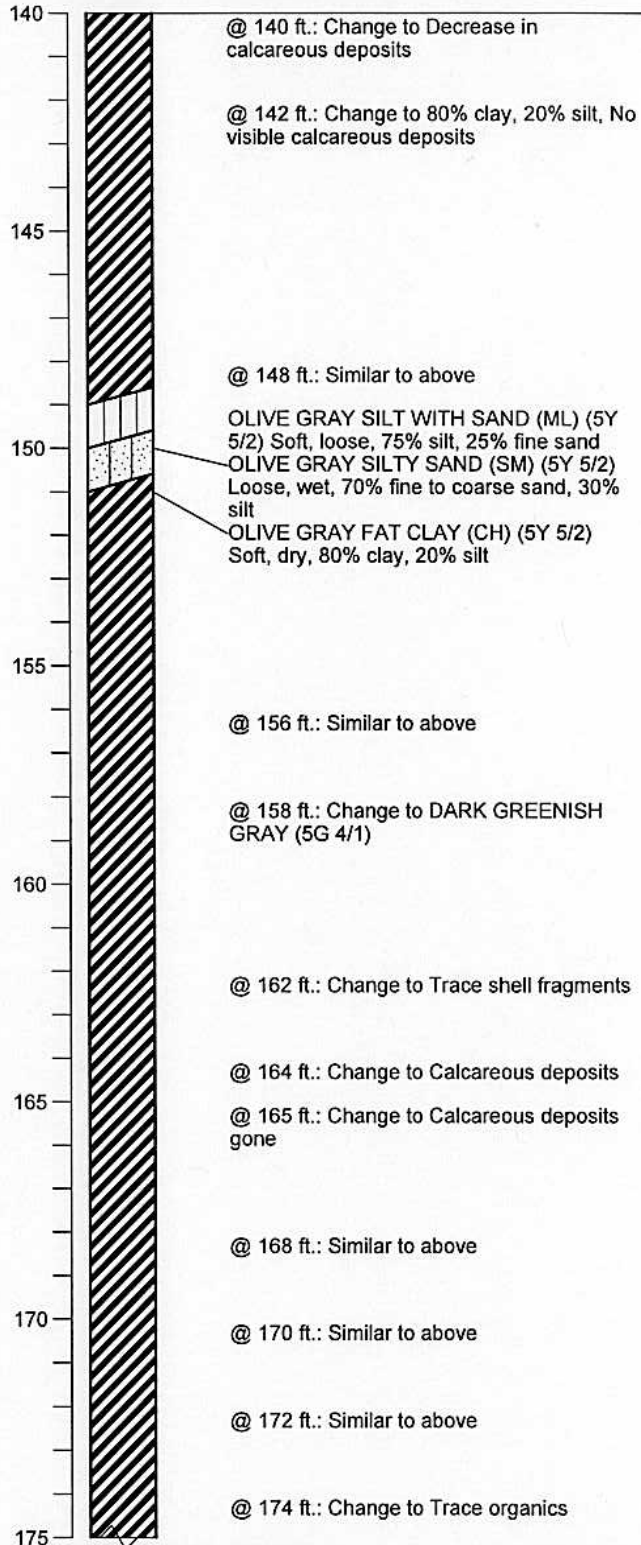
Surface Elevation 171.47 ft. Hole Dia. 7 in.

Northing 2138987.73 Easting 5748120.7

Depth (ft.)
Sample



BENTONITE
SLURRY: 25 to
179 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-53-180
OUCTP

PLATE

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED

MDT/can

DATE
11/04

REVISED DATE

A72

Completion Date 4/12/2003

Drilling Method Sonic

Logged by D. Browne

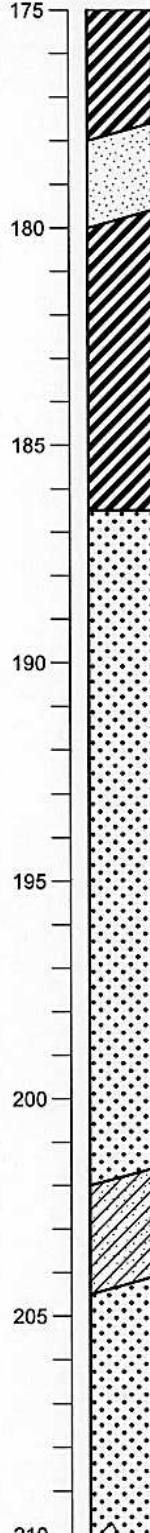
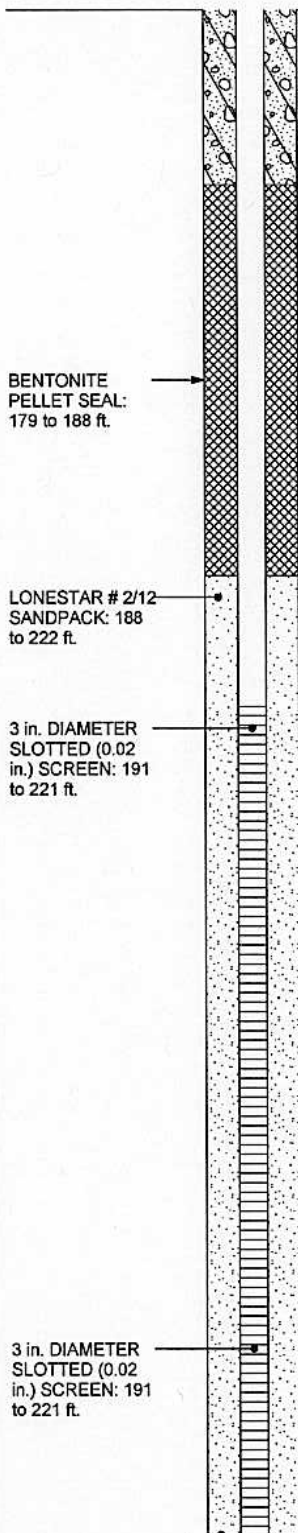
Surface Elevation 171.47 ft.

Hole Dia. 7 in.

Northing 2138987.73

Easting 5748120.7

Depth (ft.)
Sample



@ 175 ft.: Change to No visible shell fragments or organics

DARK GREENISH GRAY POORLY GRADED SAND (SP) (5G 4/1) Loose, wet, 90% fine to medium sand, 10% silt

DARK GREENISH GRAY FAT CLAY (CH) (5G 4/1) Stiff, dry, 80% clay, 20% silt

@ 183 ft.: Change to 90% clay, 10% silt, Trace shell fragments

@ 185.5 ft.: Change to DARK OLIVE GRAY (5Y 3/2) Trace organics
LIGHT YELLOWISH BROWN POORLY GRADED SAND (SP) (2.5Y 6/3) Loose, wet, 90% fine to coarse sand, 10% silt

@ 190 ft.: Similar to above

@ 193 ft.: Change to YELLOWISH BROWN (10YR 5/4)

@ 195 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/3)

@ 196 ft.: Change to YELLOWISH BROWN (10YR 5/4)

@ 200 ft.: Similar to above

LIGHT OLIVE BROWN CLAYEY SAND (SC) (2.5Y 5/4) Loose, wet, 80% fine to coarse sand, 20% clay

YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 5/4) Loose, wet, 80% fine to coarse sand coarse sand, 20% clay

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-53-180

OUCTP

Fort Ord, California

PLATE

A72

DRAWN
MBP

JOB NUMBER
55596 001701

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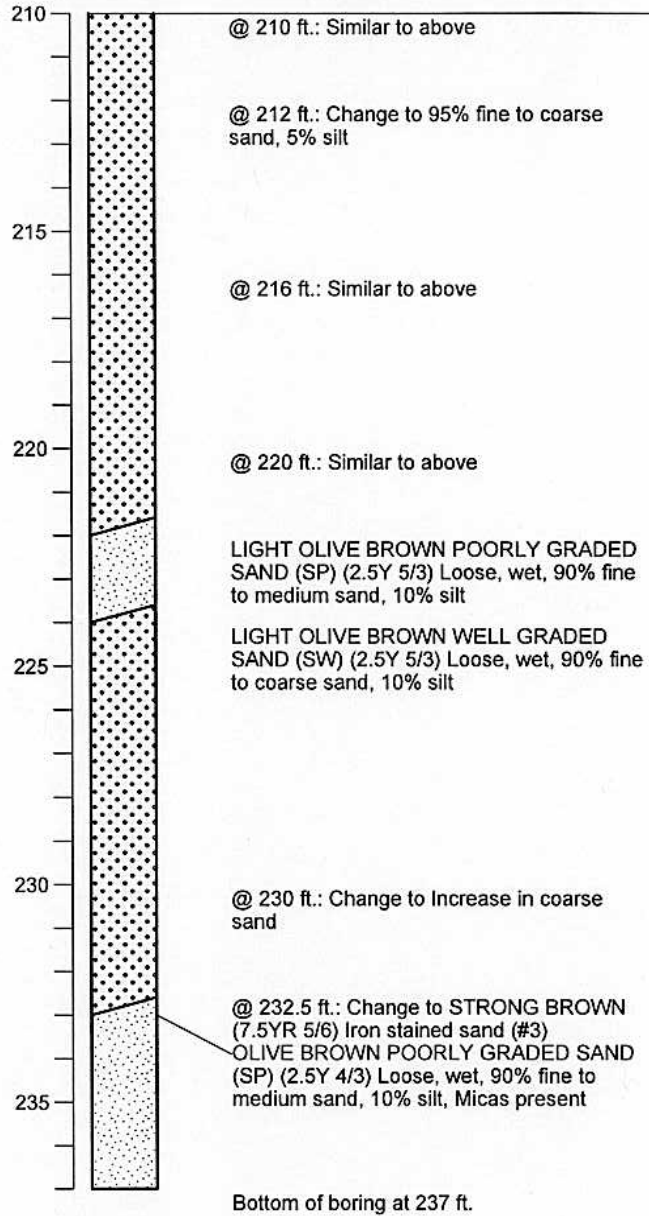
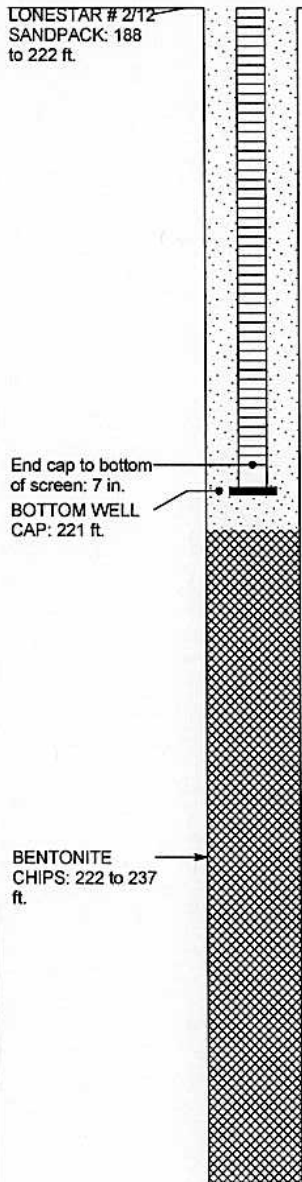
MDT/Can

DATE
11/04

REVISED DATE

Completion Date 4/12/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 171.47 ft. Hole Dia. 7 in.
 Northing 2138987.73 Easting 5748120.7

Depth (ft.)
 Sample



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MW-BW-53-180
 OUCTP

Fort Ord, California

DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED

MDT/cmr

DATE
 11/04

REVISED DATE

A72

PLATE

Top of PVC Casing
Elev. 175.72 ft.

GROUND SURFACE

5 in. DIAMETER
SCHEDULE 80
PVC BLANK
CASING: +2.12 to
92.5 ft.

12 in. DIAMETER
BOREHOLE: 0 to
124 ft.

Completion Date 5/15/2001

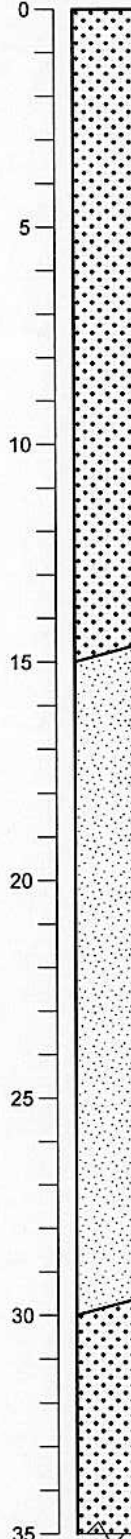
Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 173.60 ft. Hole Dia. 12 in.

Northing 2139111.058 Easting 5748333.511

Depth (ft.)
Sample



BROWN WELL GRADED SAND (SW)
(10YR 5/3) Very loose, dry, 60% fine sand,
30% medium sand, 10% organic, no odor

@ 2 ft.: Color change to LIGHT
YELLOWISH BROWN (2.5YR 6/4) 60%
medium sand, 40% fine sand

@ 10 ft.: Color change to PALE YELLOW,
50% medium sand, 50% fine sand, no odor

LIGHT YELLOWISH BROWN POORLY
GRADED SAND (SP) (2.5YR 6/6) Loose,
moist, 80% fine sand, 20% medium sand,
no odor

@ 25 ft.: Color change to LIGHT YELLOW
BROWN (2.5YR 6/4) medium dense, 70%
fine sand, 30% medium sand

LIGHT YELLOWISH BROWN WELL
GRADED SAND (SW) (2.5YR 6/6) Medium
dense, moist, 70% fine sand, 30% medium
sand, no odor

BORING WELL OUCTP OUCTPV6.GPJ FTO OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-53-A
OUCTP

PLATE

A73

Fort Ord, California

DRAWN
PCB

JOB NUMBER
55596 001701

APPROVED

MDT / Cmr

DATE
11/04

REVISED DATE

Completion Date 5/15/2001

Drilling Method Hollow Stem Auger

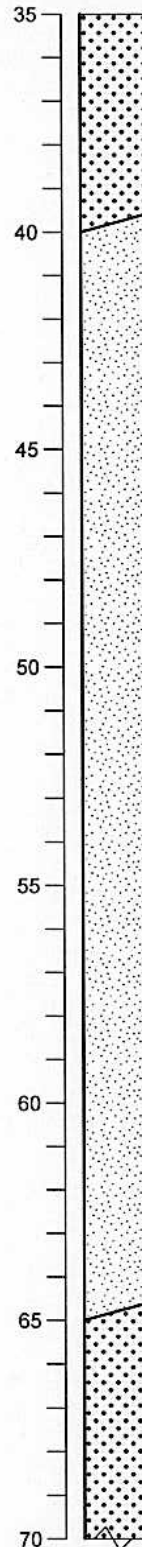
Logged by _____

Surface Elevation 173.60 ft. Hole Dia. 12 in.

Northing 2139111.058 Easting 5748333.511

Depth (ft.)
Sample

BENTONITE-
CEMENT SEAL: 0
to 83 ft.



LIGHT YELLOWISH BROWN POORLY
GRADED SAND (SP) (10YR 6/4) Medium
dense, moist, 80% medium sand, 20% fine
sand

LIGHT YELLOWISH BROWN WELL
GRADED SAND (SW) (10YR 6/4) Medium
dense, moist, 60% fine sand, 40% medium
sand

BORING WELL OUCTP OUCTPV6 GPJ FTO OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-53-A
OUCTP

PLATE

A73

Fort Ord, California

DRAWN
PCB

JOB NUMBER
55596 001701

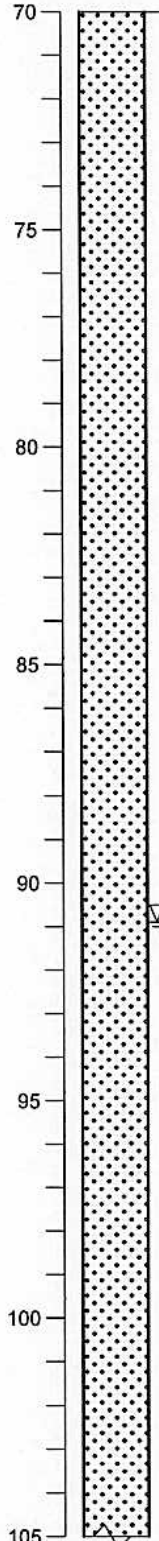
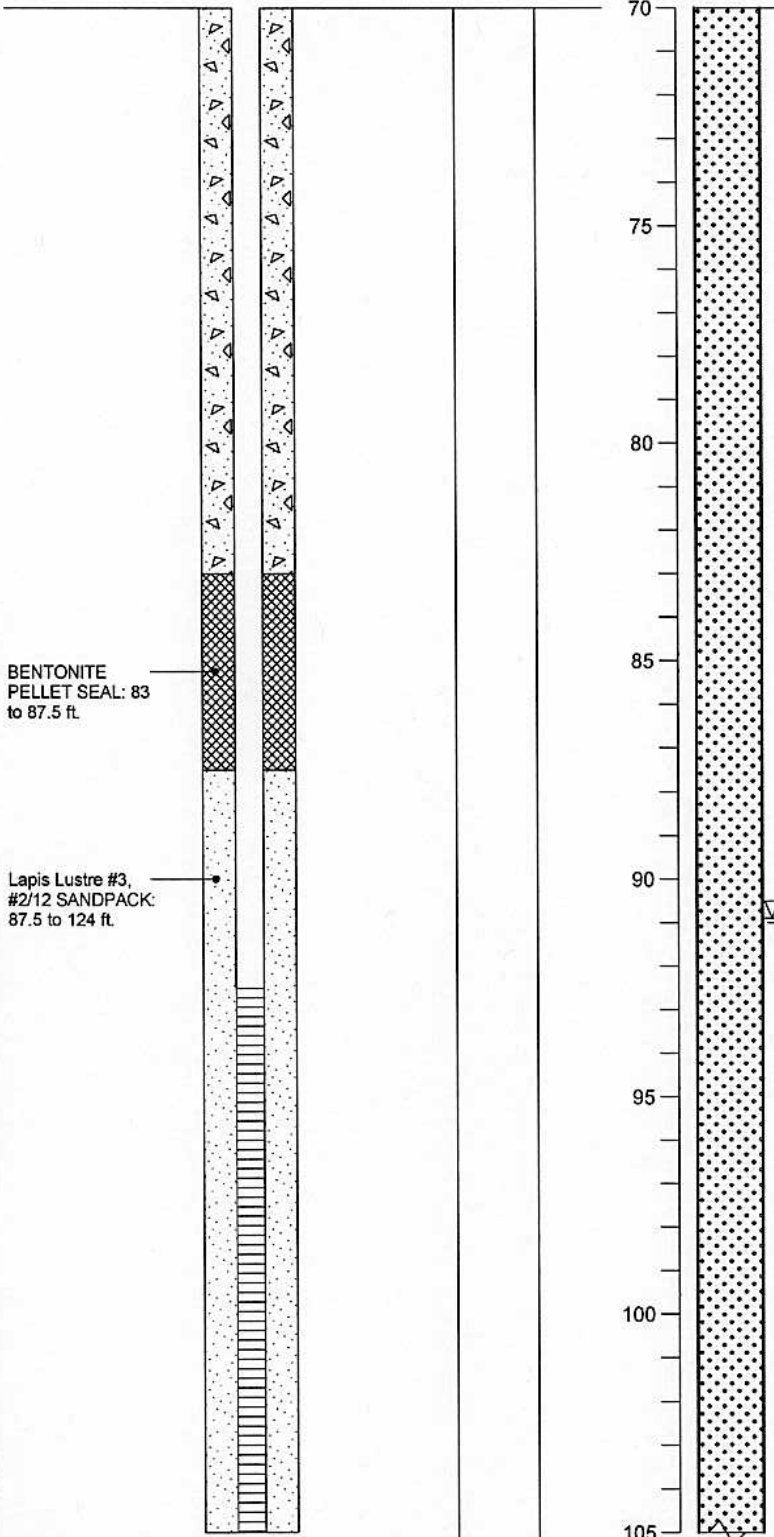
APPROVED
MDT / can

DATE
11/04

REVISED DATE

Completion Date 5/15/2001
 Drilling Method Hollow Stem Auger
 Logged by _____
 Surface Elevation 173.60 ft. Hole Dia. 12 in.
 Northing 2139111.058 Easting 5748333.511

Depth (ft.)
 Sample



@ 93 ft.: Driller notes change - possible water

@ 95 ft.: Change to wet, 50% medium sand, 50% fine sand

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-53-A
 OUCTP

Fort Ord, California

PLATE

A73

DRAWN
 PCB

JOB NUMBER
 55596 001701

APPROVED
MOT/Car

DATE
 11/04

REVISED DATE

Completion Date 5/15/2001

Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 173.60 ft. Hole Dia. 12 in.

Northing 2139111.058 Easting 5748333.511

Depth (ft.)
Sample

5 in. DIAMETER
SLOTTED (0.020
in.) SCREEN: 92.5
to 122.5 ft.

BOTTOM WELL
CAP: 123.5 ft.
Hole cleaned out
to 124 ft. Bottom
of boring at 124
ft.

105
110
115
120

@ 105 ft.: Color change to YELLOWISH
BROWN (10YR 5/4) dense, 70% fine sand
30% medium sand, no odor

DARK OLIVE GRAY FAT CLAY (CH) (5Y
3/2) Very dense, moist
Bottom of boring at 124 ft.

BORING_WELL_OUCTP_OUCTPV6.GPJ_FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-53-A

OUCTP

Fort Ord, California

DRAWN
PCB

JOB NUMBER
55596 001701

APPROVED

MOT / CWR

DATE
11/04

REVISED DATE

A73

PLATE

Top of PVC Casing
Elev. 127.78 ft.

Completion Date 6/21/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 124.96 ft. Hole Dia. 7 in.

Northing 2142043.8 Easting 5746818.2

GROUND SURFACE

Top of casing at
2.5 ft. above
ground level

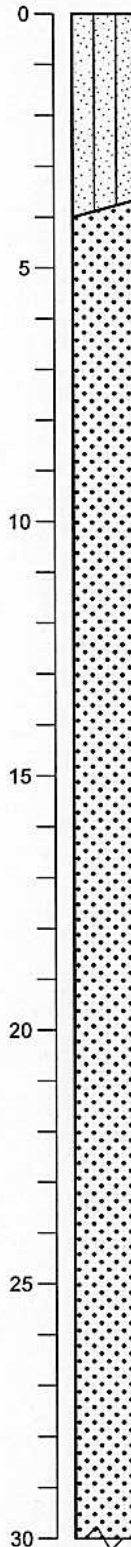
7 in. DIAMETER
BOREHOLE: 0 to
227 ft.

3 DIAMETER
SCHEDULE 80
PVC BLANK
CASING: 1 to 201
ft.

BENTONITE-
CEMENT SEAL: 2
to 25 ft.

BENTONITE
SLURRY: 25 to
151 ft.

Depth (ft.)
Sample



VERY DARK YELLOWISH BROWN SILTY
SAND (SM) (10YR 3/2) Loose, dry, 80%
fine to coarse sand, 20% silt, Trace roots to
1.5 ft.

BROWN WELL GRADED SAND (SW)
(10YR 4/3) Loose, dry, 90% fine to coarse
sand, 10% silt

@ 9 ft.: Change to DARK YELLOWISH
BROWN (10YR 4/4)

@ 12 ft.: Change to YELLOWISH BROWN
(10YR 5/6)

@ 15 ft.: Similar to above

@ 18 ft.: Change to Increase in coarse sand

@ 20 ft.: Similar to above

@ 22 ft.: Change to Decrease in coarse
sand

@ 23 ft.: Change to YELLOWISH BROWN
(10YR 5/4)

@ 25 ft.: Similar to above

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-54-180
OUCTP

PLATE

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED
MDT / car

DATE
11/04

REVISED DATE

A74

Completion Date 6/21/2003

Drilling Method Sonic

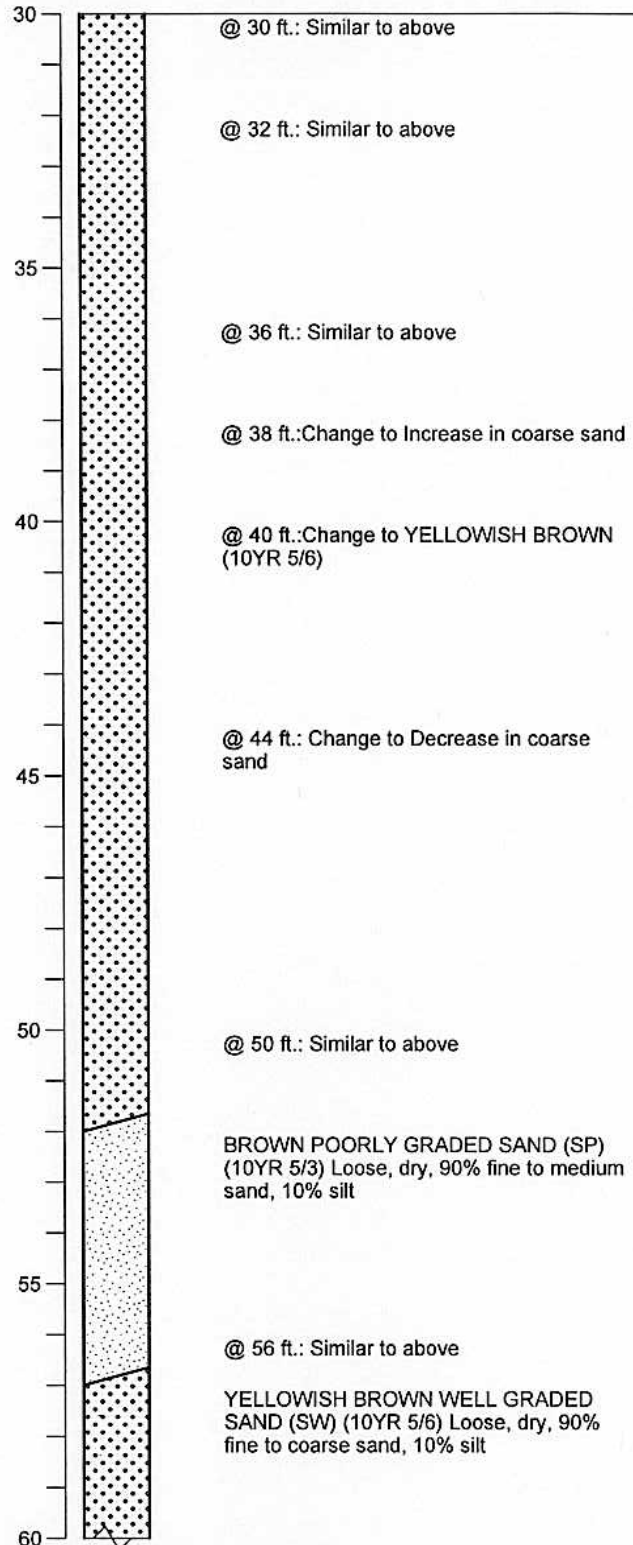
Logged by D. Browne

Surface Elevation 124.96 ft. Hole Dia. 7 in.

Northing 2142043.8 Easting 5746818.2

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
151 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-54-180
OUCTP

PLATE

Fort Ord, California

A74

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED
MDT / car

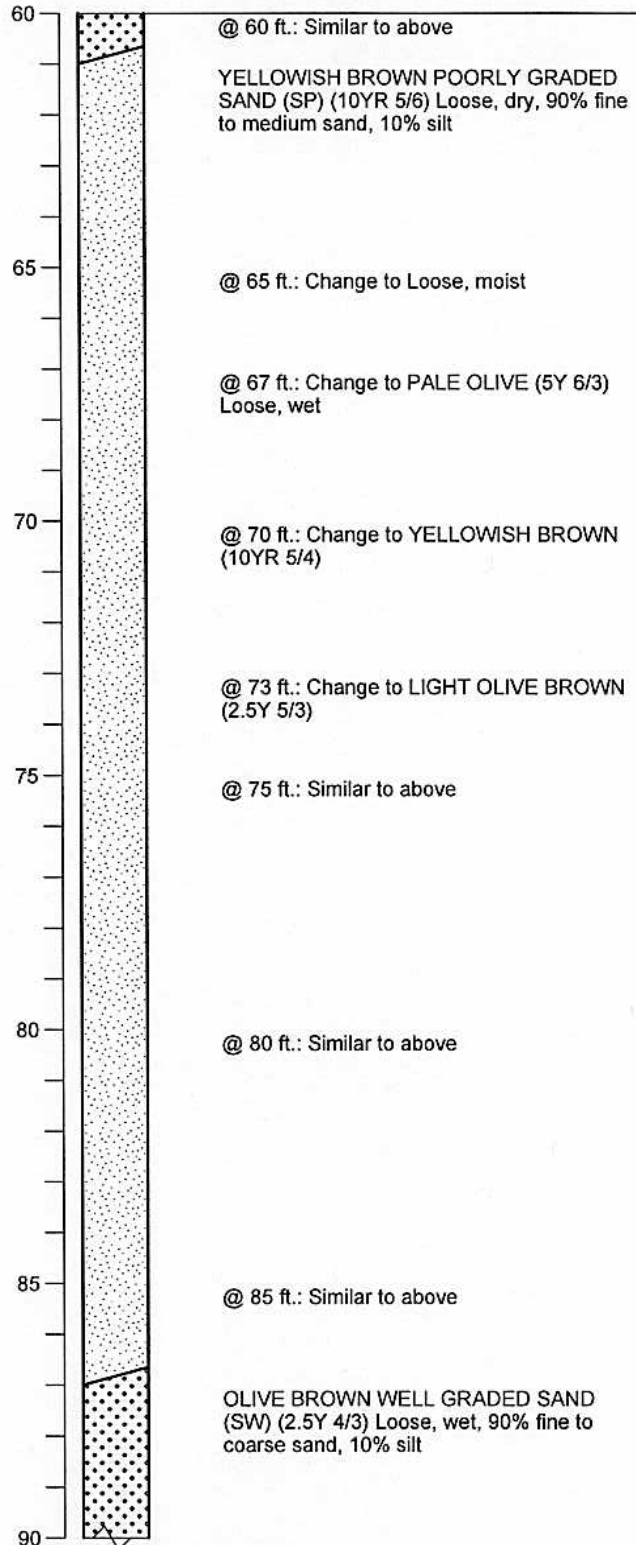
DATE
11/04

REVISED DATE

Completion Date 6/21/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 124.96 ft. Hole Dia. 7 in.
 Northing 2142043.8 Easting 5746818.2

Depth (ft.)
 Sample

BENTONITE
 SLURRY: 25 to
 151 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-54-180
 OUCTP

PLATE

Fort Ord, California

A74

DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED
 MDT / car

DATE
 11/04

REVISED DATE

Completion Date 6/21/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 124.96 ft.

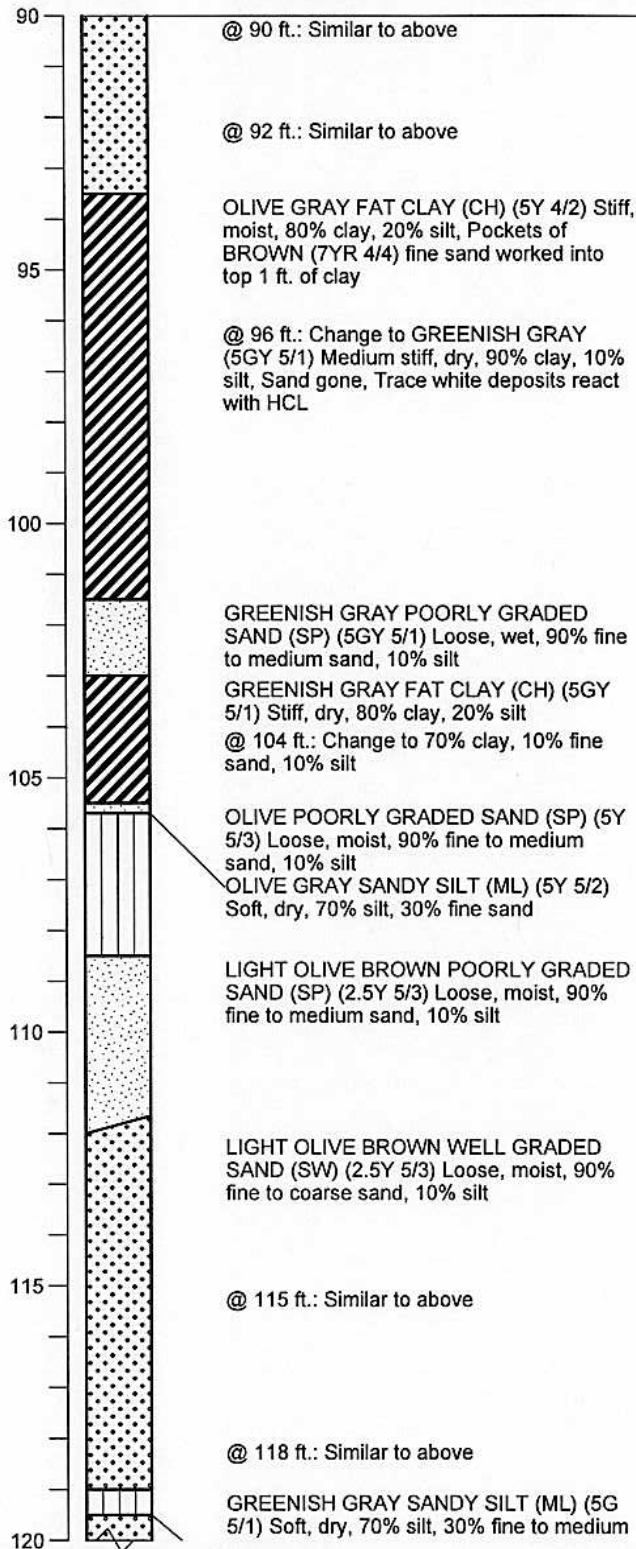
Hole Dia. 7 in.

Northing 2142043.8

Easting 5746818.2

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
151 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-54-180
OUCTP

PLATE

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED
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DATE
11/04

REVISED DATE

A74

Completion Date 6/21/2003

Drilling Method Sonic

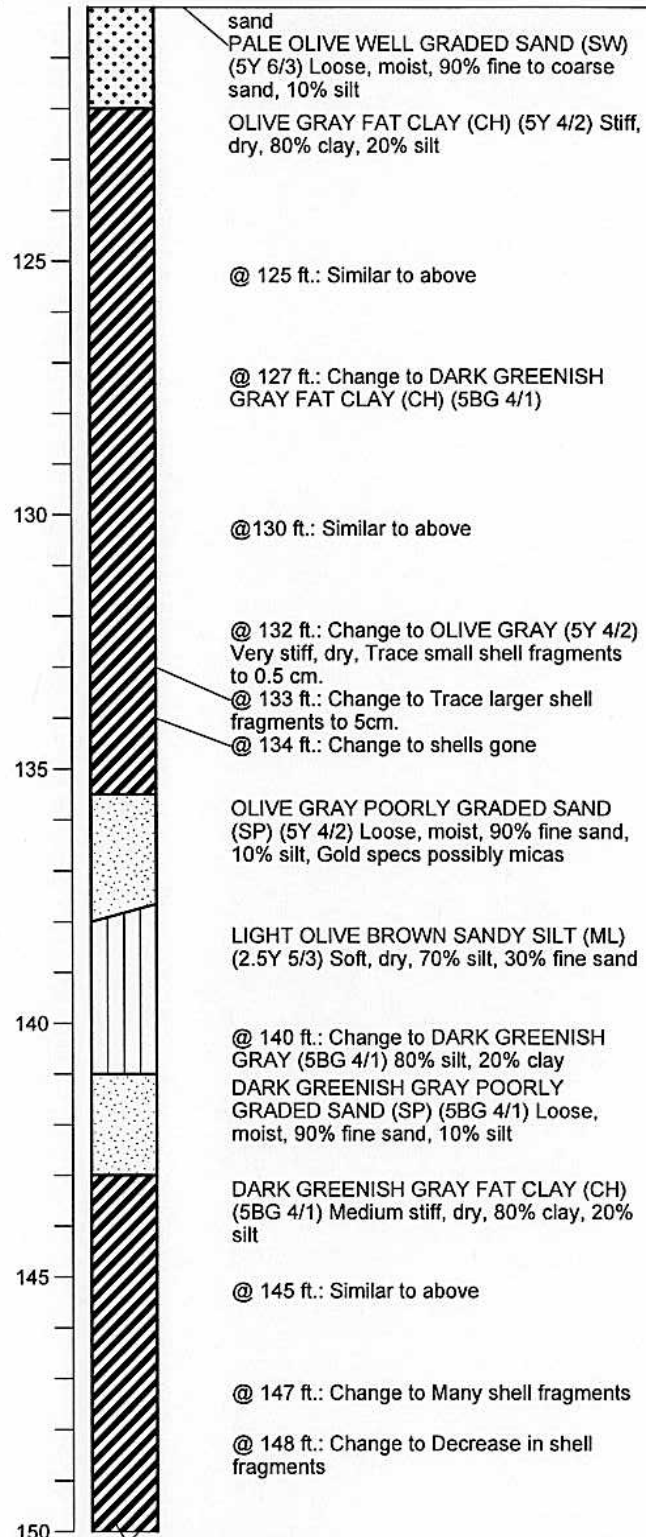
Logged by D. Browne

Surface Elevation 124.96 ft. Hole Dia. 7 in.

Northing 2142043.8 Easting 5746818.2

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
151 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-54-180
OUCTP

PLATE

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED
MDT/Car

DATE
11/04

REVISED DATE

A74

Completion Date 6/21/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 124.96 ft. Hole Dia. 7 in.
 Northing 2142043.8 Easting 5746818.2

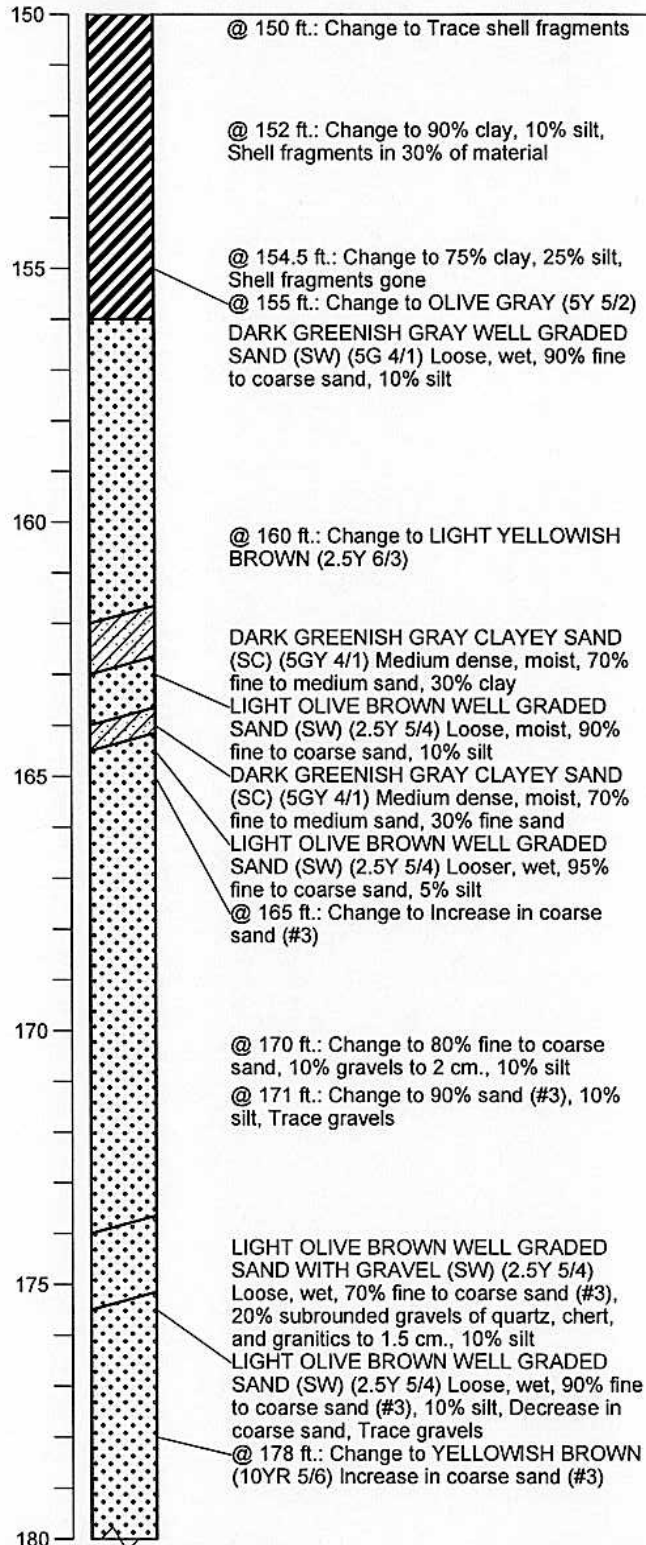
Depth (ft.)
 Sample

BENTONITE
 SLURRY: 25 to
 151 ft.

BENTONITE
 PELLET SEAL:
 151 to 158 ft.

LONESTAR # 2/12
 SANDPACK: 158
 to 201 ft.

3 in. DIAMETER
 SLOTTED (0.02
 in.) SCREEN: 161
 to 201 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-54-180
 OUCTP

PLATE

Fort Ord, California

A74

DRAWN
 MBP

JOB NUMBER
 55596 001701

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DATE
 11/04

REVISED DATE

Completion Date 6/21/2003

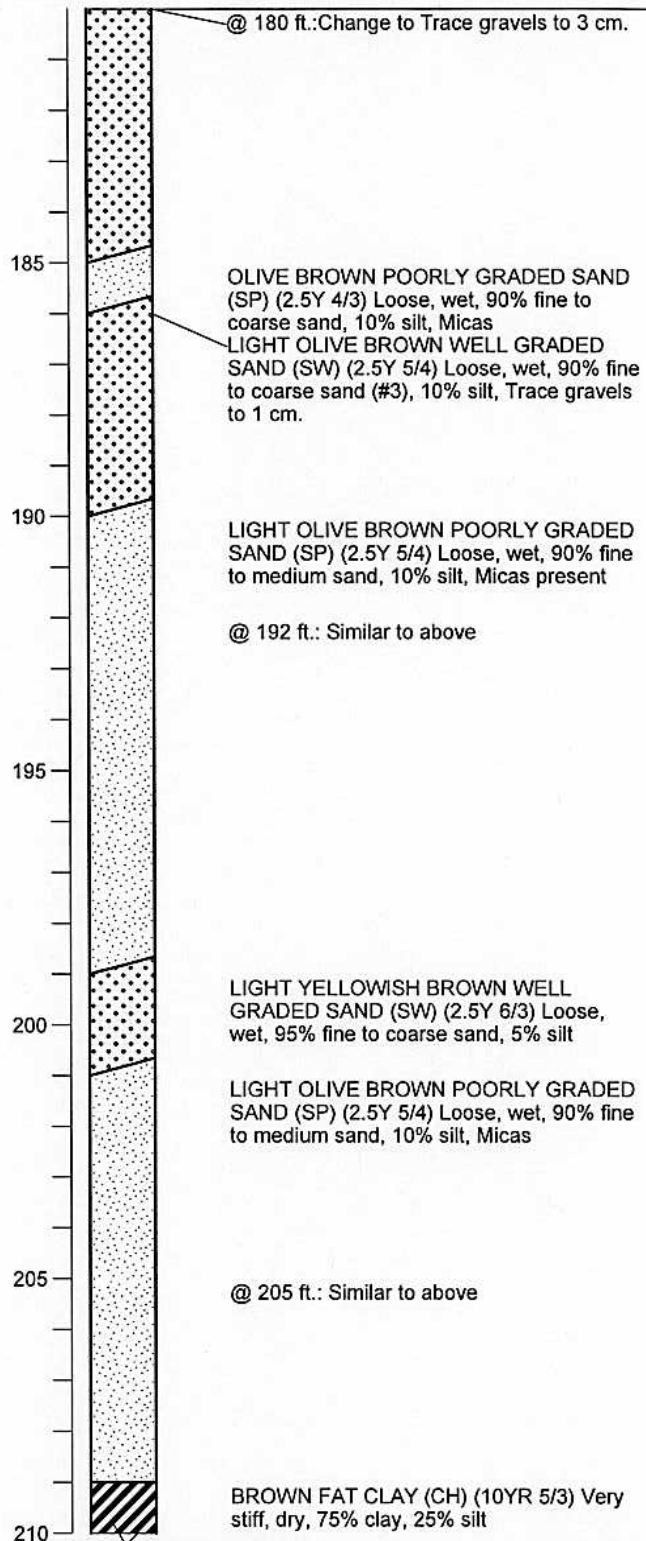
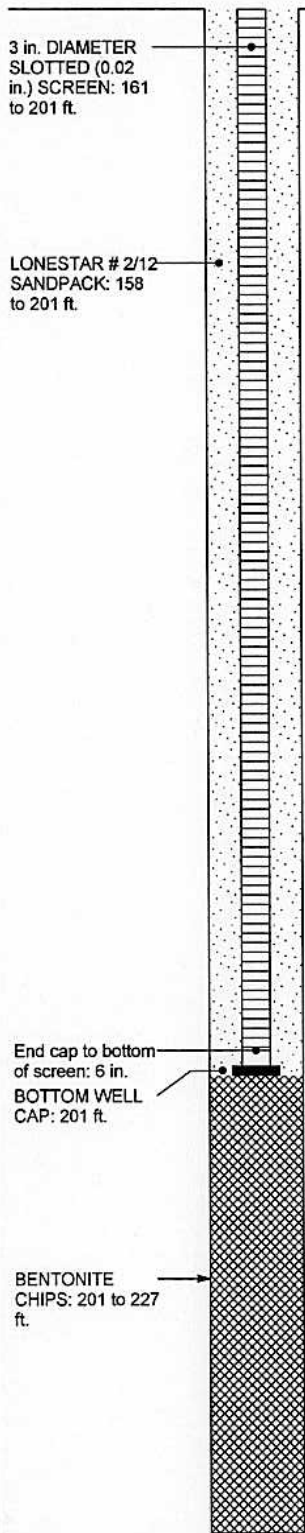
Drilling Method Sonic

Logged by D. Browne

Surface Elevation 124.96 ft. Hole Dia. 7 in.

Northing 2142043.8 Easting 5746818.2

Depth (ft.)
Sample



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-54-180
OUCTP

Fort Ord, California

PLATE

A74

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED
MDT/Car

DATE
11/04

REVISED DATE

Completion Date 6/21/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 124.96 ft.

Hole Dia. 7 in.

Northing 2142043.8

Easting 5746818.2

Depth (ft.)
Sample

BENTONITE
CHIPS: 201 to 227
ft.



@ 212 ft.: Similar to above

@ 215 ft.: Similar to above

@ 220 ft.: Similar to above

BROWN CLAYEY SAND (SC) (10YR 5/3)
Loose, dry, 75% fine sand, 25% clay
BROWN FAT CLAY (CH) (10YR 5/3) Very
stiff, dry, 80% clay, 20% silt

BROWN SILT (ML) (10YR 5/3) Stiff, dry,
80% silt, 20% clay

BROWN FAT CLAY (CH) (10YR 5/3) Very
stiff, dry, 80% clay, 20% silt

Bottom of boring at 227 ft.

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-54-180
OUCTP

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

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MDT/CAR

DATE
11/04

REVISED DATE

A74

PLATE

Top of PVC Casing
Elev. 146.54 ft.

GROUND SURFACE

5 in. DIAMETER
SCHEDULE 80
PVC BLANK
CASING: +2.14 to
56 ft.

12 in. DIAMETER
BOREHOLE: 0 to
87 ft.

BENTONITE-
CEMENT SEAL: 0
to 43 ft.

Completion Date 5/22/2001

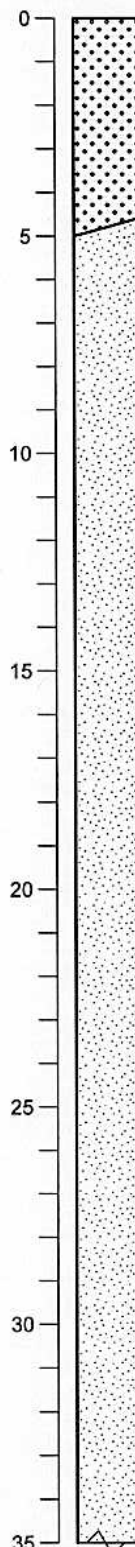
Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 144.40 ft. Hole Dia. 12 in.

Northing 2139291.492 Easting 5749576.585

Depth (ft.)
Sample



BROWNISH YELLOW WELL GRADED
SAND (SW) (10YR 6/6) Loose, dry, 60%
medium sand, 35% fine sand, 5% organic
matter, no odor

@ 1 ft.: Color change to DARK
YELLOWISH BROWN (10YR 3/4) 85% fine
sand, 15% medium sand

@ 2 ft.: Color change to YELLOWISH
BROWN (10YR 5/6) 90% fine sand, 10%
medium sand, trace fines

OLIVE YELLOW POORLY GRADED SAND
(SP) (2.5Y 6/6) Medium dense, dry, 95%
fine sand, 5% medium sand, no odor

@ 15 ft.: Color change to OLIVE YELLOW
(2.5Y 6/8)

@ 30 ft.: Change to dense

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-54-A

OUCTP

Fort Ord, California

DRAWN
PCB

JOB NUMBER
55596 001701

APPROVED

MDT / car

DATE
11/04

REVISED DATE

PLATE

A75

Completion Date 5/22/2001

Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 144.40 ft. Hole Dia. 12 in.

Northing 2139291.492 Easting 5749576.585

Depth (ft.)
Sample

35

@ 35 ft.: Color change to YELLOW (2.5Y 7/8) medium dense, moist, 100% fine sand

40

45

@ 45 ft.: Change to trace clay - possible paleosol

50

@ 50 ft.: Change to 85% fine sand, 10% medium sand, 5% fines, no odor

@ 51 ft.: Driller notes possible water

55

OLIVE YELLOW WELL GRADED SAND (SW) (2.5Y 6/6) Medium dense, wet, 55% fine sand, 40% medium sand, 5% fines

@ 57 ft.: Driller notes change - possible gravel layer

60

@ 60 ft.: Change to 75% fine sand, 20% medium sand, 5% fines

65

@ 65 ft.: Change to 80% fine sand, 10% medium sand, 10% fines

70

BENTONITE
PELLET SEAL: 43
to 50.5 ft.

Lapis Lustre #3
SANDPACK: 50.5
to 87 ft.

BORING_WELL_OUCTP_OUCTPV8.GPJ_FTO_OUCTP.GDT 11/24/04

**Well Construction Details and
Log of Boring MW-BW-54-A**

OUCTP

Fort Ord, California

PLATE

A75



MACTEC

DRAWN
PCB

JOB NUMBER
55596 001701

APPROVED

NOT / car

DATE
11/04

REVISED DATE

Completion Date 5/22/2001

Drilling Method Hollow Stem Auger

Logged by _____

Surface Elevation 144.40 ft. Hole Dia. 12 in.

Northing 2139291.492 Easting 5749576.585

Depth (ft.)
Sample

5 in. DIAMETER
SLOTTED (0.020
in.) SCREEN: 56
to 86 ft.

BOTTOM WELL
CAP: 87 ft.
Hole cleaned out
to 87 ft. Bottom of
boring at 87 ft.

70
75
80
85

@ 70 ft.: Change to 75% fine sand, 15%
medium sand, 10% fines

OLIVE YELLOW POORLY GRADED SAND
(SP) (2.5Y 6/6) Dense, wet, 85% fine sand,
10% fines, 5% medium sand, no odor

OLIVE YELLOW WELL GRADED SAND
(SW) (2.5Y 6/6) Dense, wet, 75% fine sand,
15% medium sand, 10% fines, no odor

PALE OLIVE ELASTIC SILT (MH) (5Y 6/3)
Dense, moist, 90% silt, 5% fine sand, 5%
clay
Bottom of borehole at 87 ft.

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-54-A

OUCTP

Fort Ord, California

PLATE

A75

DRAWN
PCB

JOB NUMBER
55596 001701

APPROVED

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DATE
11/04

REVISED DATE

Top of PVC Casing
Elev. 144.47 ft.

GROUND SURFACE

Top of casing at 2
ft. above ground
level

7 in. DIAMETER
BOREHOLE: 0 to
207 ft.

3 DIAMETER
SCHEDULE 80
PVC BLANK
CASING: 1 to 171
ft.

BENTONITE-
CEMENT SEAL: 2
to 25 ft.

BENTONITE
SLURRY: 25 to
159 ft.

Completion Date 7/9/2003

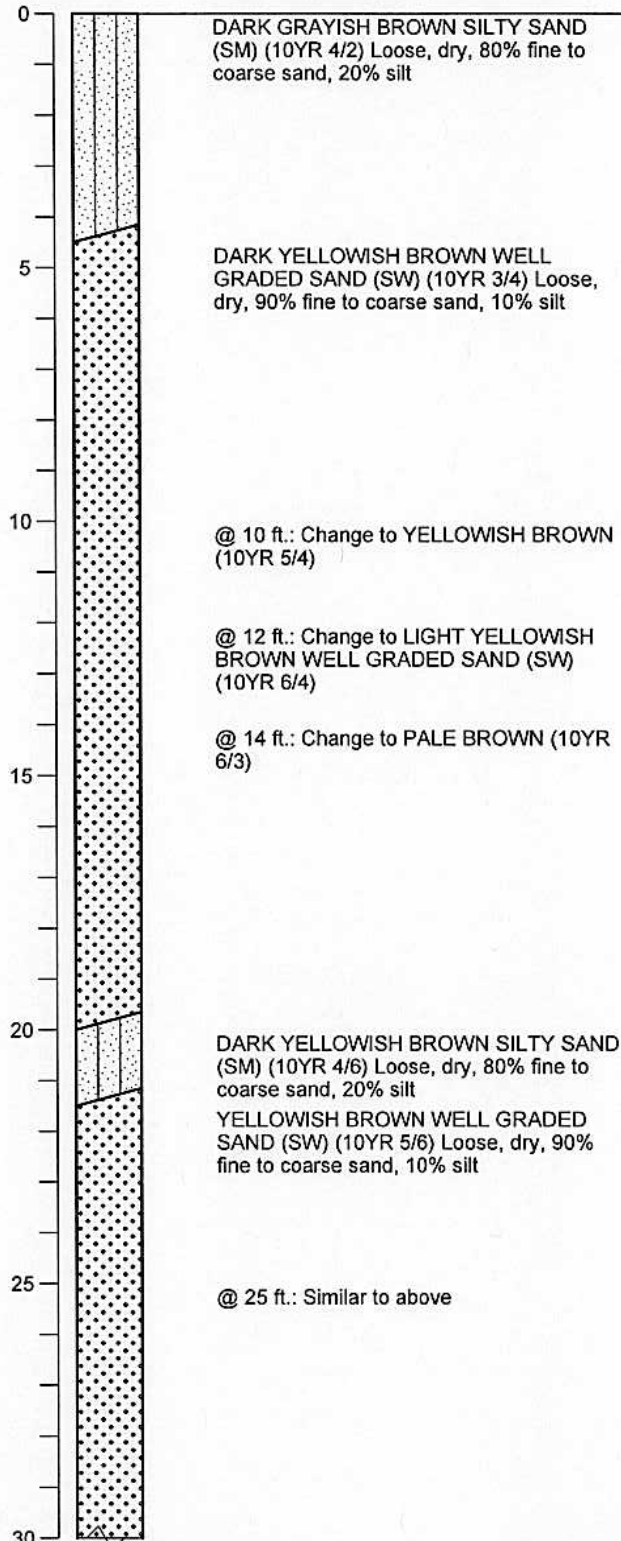
Drilling Method Sonic

Logged by D. Browne

Surface Elevation 141.52 ft. Hole Dia. 7 in.

Northing 2140906.6 Easting 5748107.6

Depth (ft.)
Sample



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-55-180
OUCTP

PLATE

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

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DATE
11/04

REVISED DATE

A76

Completion Date 7/9/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 141.52 ft.

Hole Dia. 7 in.

Northing 2140906.6

Easting 5748107.6

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
159 ft.

30

@ 30 ft.: Similar to above

@ 32 ft.: Similar to above

35

@ 40 ft.: Similar to above

45

@ 45 ft.: Similar to above

@ 46 ft.: Change to LIGHT YELLOWISH
BROWN (2.5Y 6/4)

50

@ 50 ft.: Change to LIGHT YELLOWISH
BROWN (10YR 6/4)

@ 52 ft.: Similar to above

55

LIGHT GRAY SILTY SAND (SM) (10YR
7/2) Loose, dry, 70% fine to medium sand,
30% silt
BROWNISH YELLOW WELL GRADED
SAND (SW) (10YR 6/6) Loose, dry, 90%
fine to coarse sand, 10% silt

60

YELLOWISH BROWN POORLY GRADED
SAND (SP) (10YR 5/4) Loose, moist, 90%
fine to medium sand, 10% silt

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-55-180
OUCTP

PLATE

Fort Ord, California

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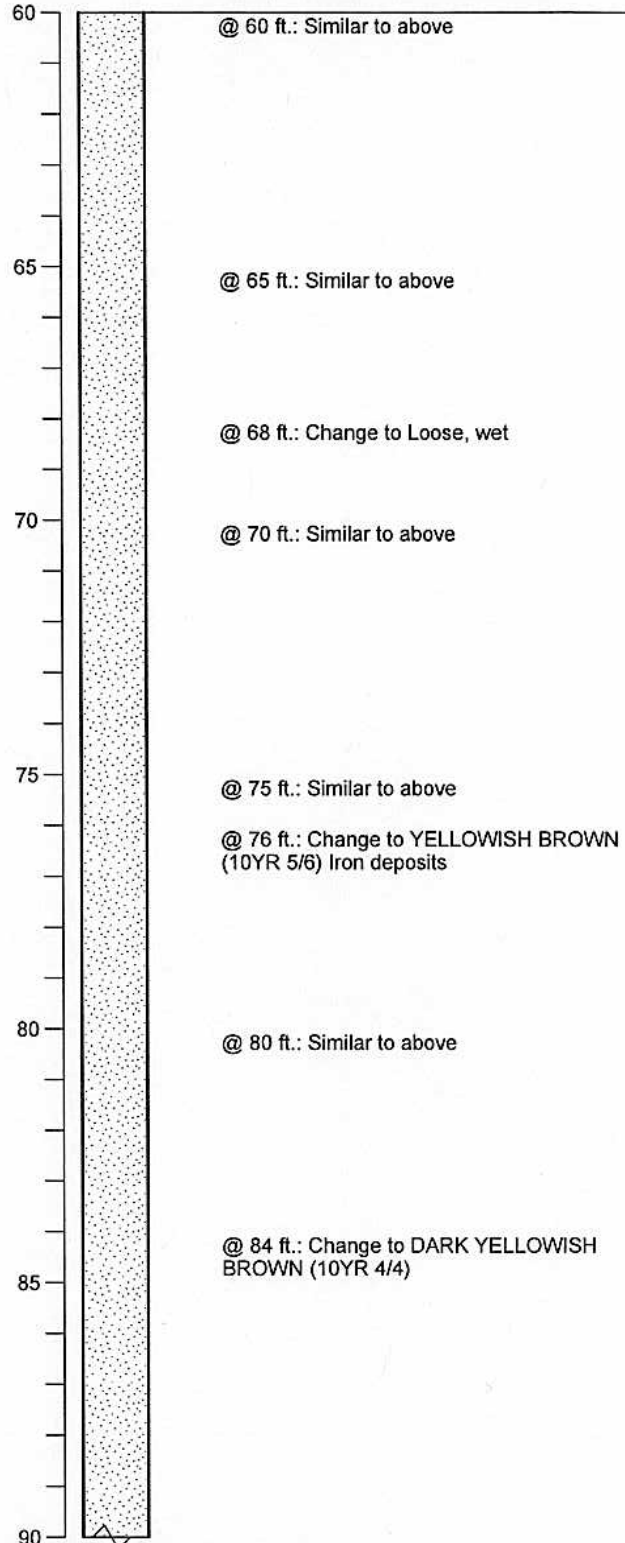
REVISED DATE

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Completion Date 7/9/2003
 Drilling Method Sonic
 Logged by D. Browne
 Surface Elevation 141.52 ft. Hole Dia. 7 in.
 Northing 2140906.6 Easting 5748107.6

Depth (ft.)
 Sample

BENTONITE
 SLURRY: 25 to
 159 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-55-180
 OUCTP

PLATE

A76

Fort Ord, California

DRAWN
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JOB NUMBER
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Completion Date 7/9/2003

Drilling Method Sonic

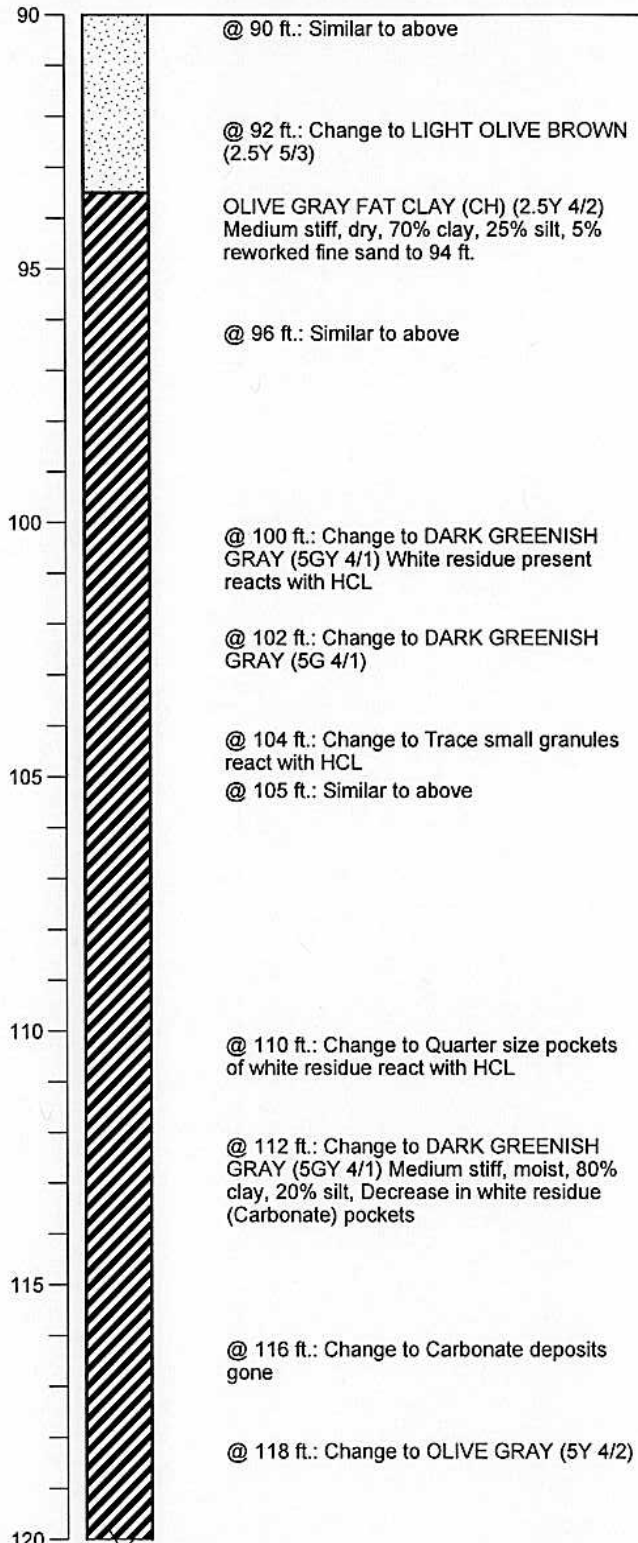
Logged by D. Browne

Surface Elevation 141.52 ft. Hole Dia. 7 in.

Northing 2140906.6 Easting 5748107.6

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
159 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-55-180
OUCTP

PLATE

Fort Ord, California

A76

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED
MDT/CM

DATE
11/04

REVISED DATE

Completion Date 7/9/2003

Drilling Method Sonic

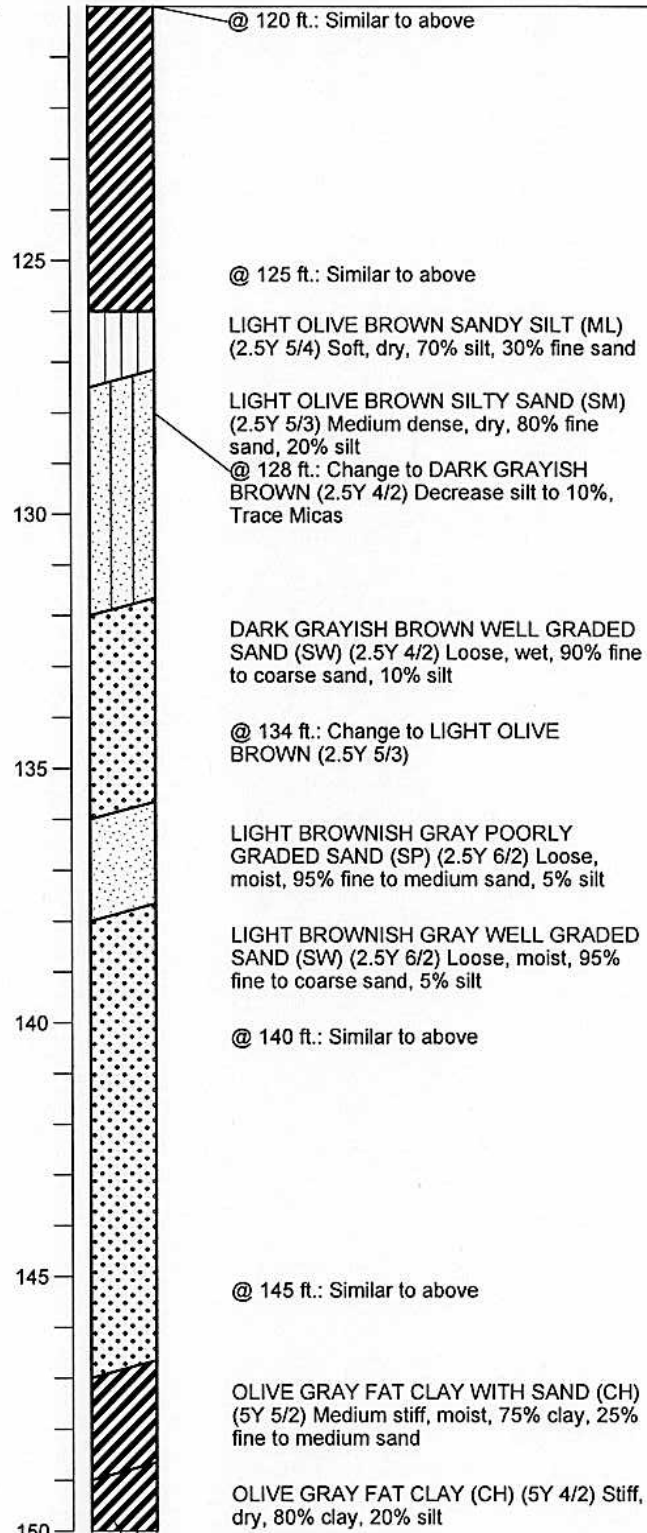
Logged by D. Browne

Surface Elevation 141.52 ft. Hole Dia. 7 in.

Northing 2140906.6 Easting 5748107.6

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
159 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-55-180
OUCTP

PLATE

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

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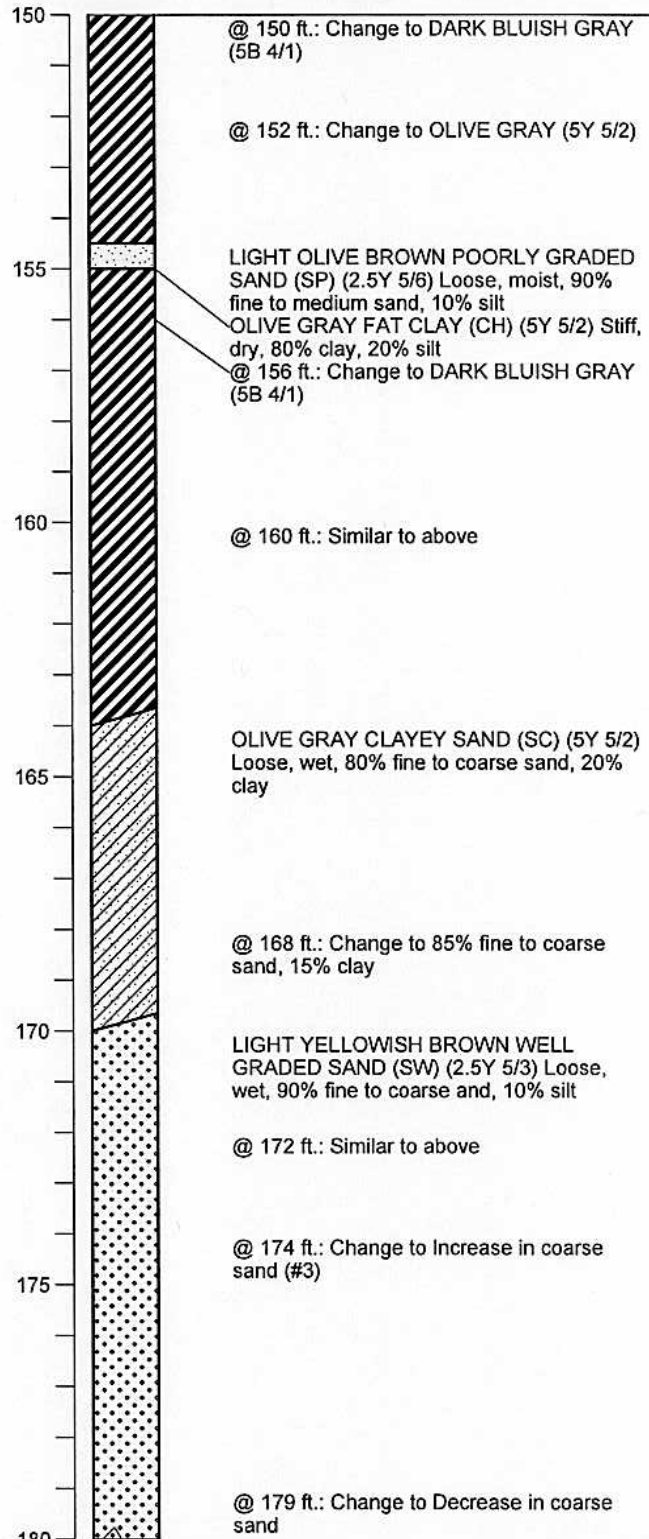
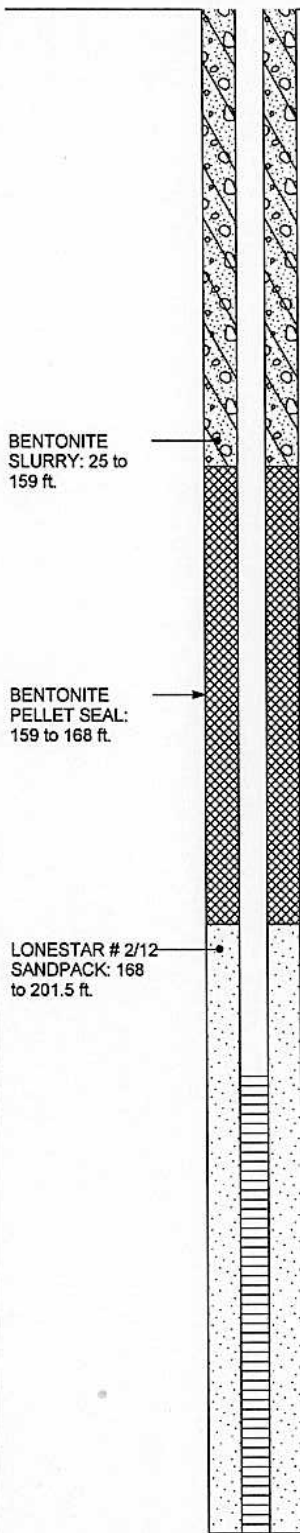
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REVISED DATE

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Completion Date 7/9/2003
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 Logged by D. Browne
 Surface Elevation 141.52 ft. Hole Dia. 7 in.
 Northing 2140906.6 Easting 5748107.6

Depth (ft.)
 Sample



BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-55-180
 OUCTP

PLATE

Fort Ord, California

A76

DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED
 MBP / car

DATE
 11/04

REVISED DATE

Completion Date 7/9/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 141.52 ft. Hole Dia. 7 in.

Northing 2140906.6 Easting 5748107.6

Depth (ft.)
Sample

LONESTAR # 2/12
SANDPACK: 168
to 202 ft.
3 in. DIAMETER
SLOTTED (0.02
in.) SCREEN: 171
to 201 ft.

End cap to bottom
of screen: 6 in.
BOTTOM WELL
CAP: 201.5 ft.

BENTONITE
CHIPS: 201.5 to
207 ft.

@ 184 ft.: Change to Increase in coarse sand (#3)

@ 186 ft.: Similar to above

@ 188 ft.: Change to 85% fine to coarse sand, 10% silt, 5% subrounded gravels of chert, quartz, and granitics to 3 cm.

@ 190 ft.: Change to 80% fine to coarse sand, 10% gravels up to 3 cm., 10% silt

@ 191 ft.: Change to DARK GRAYISH BROWN (10YR 4/2) Gravels gone

@ 192 ft.: Change to 85% fine to coarse sand, 10% silt, 5% gravel

@ 193 ft.: Change to Trace gravels

@ 193.5 ft.: Change to YELLOWISH BROWN (10YR 5/4) Gravels gone

@ 195 Change to VERY DARK GRAY (10YR 3/1) Loose, wet, 90% fine to coarse sand, 10% silt

@ 197.5 ft.: Change to YELLOWISH BROWN (10YR 5/4) Trace gravels

@ 199 ft.: Change to Decrease in coarse sand
YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 5/4) Loose, wet, 90% fine to medium sand, 10% silt, Trace Micaceous
YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 5/4) Loose, wet, 90% fine to coarse sand, 10% silt, Trace #3 sand

@ 204 ft.: Change to Decrease in coarse sand

Bottom of boring at 207 ft.

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-55-180

OUCTP

Fort Ord, California

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JOB NUMBER
55596 001701

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11/04

REVISED DATE

A76

PLATE

Top of PVC Casing
Elev. 155.90 ft.

GROUND SURFACE

Top of casing at
0.5 ft. above
ground surface

12 DIA.
BOREHOLE: 0 to
110 ft.

5 DIA. SCHED. 40
PVC BLANK
CASING: 0 to 79
ft.

BENTONITE-CEMENT
SEAL: 0 to 70 ft.

Completion Date 8/12/2002

Drilling Method Hollow Stem Auger

Logged by DSB

Surface Elevation 155.70 ft. Hole Dia. 12 in.

Northing 2139168.53 Easting 5747940.95

Depth (ft.)
Sample

0

5

10

15

20

25

30

35

OLIVE-GRAY SILTY SAND (SM) (5Y 4/2)
Loose, dry, 75% fine to coarse sand, 25%
silt

@ 4 ft.: Color change to OLIVE-BROWN
SILTY SAND (SM) (2.5Y 4/3)

DARK YELLOW-BROWN WELL-GRADED
SAND (SW) (10YR 4/6) Loose, dry, 95%
fine to coarse sand, 5% silt

YELLOW-BROWN POORLY-GRADED
SAND (SP) (10YR 5/6) Loose, dry, 95%
fine to medium sand, 5% silt

BROWN WELL-GRADED SAND (SW)
(10YR 5/3) Loose, dry, 95% fine to coarse
sand, 5% silt

@ 20 ft.: Color change to
YELLOW-BROWN (10YR 5/6)

@ 30 ft.: Color change to (10YR 5/8)

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-55-A
OUCTP

Fort Ord, California

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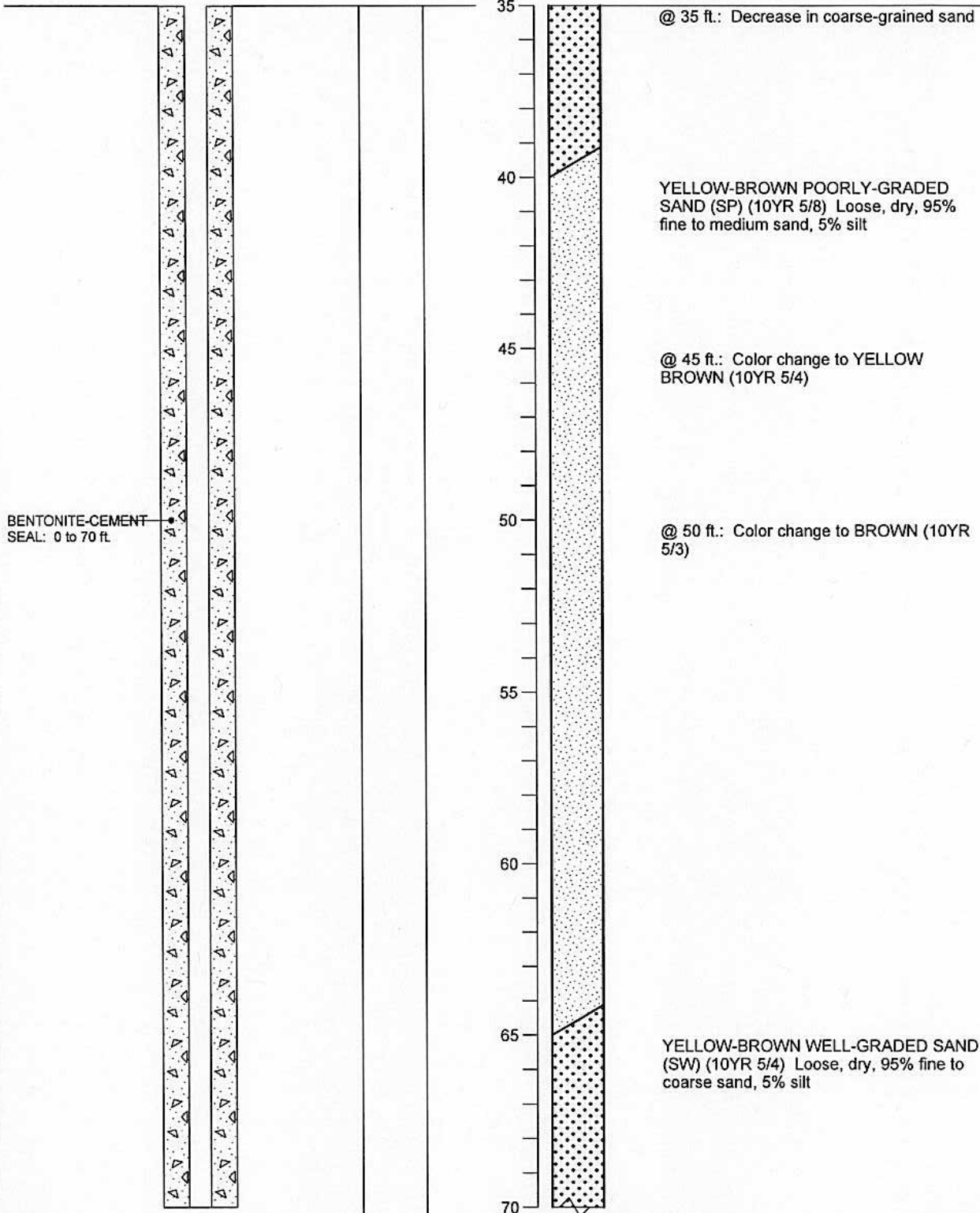
REVISED DATE

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PLATE

Completion Date 8/12/2002
 Drilling Method Hollow Stem Auger
 Logged by DSB
 Surface Elevation 155.70 ft. Hole Dia. 12 in.
 Northing 2139168.53 Easting 5747940.95

Depth (ft.)
 Sample



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-55-A
 OUCTP

PLATE

Fort Ord, California

DRAWN
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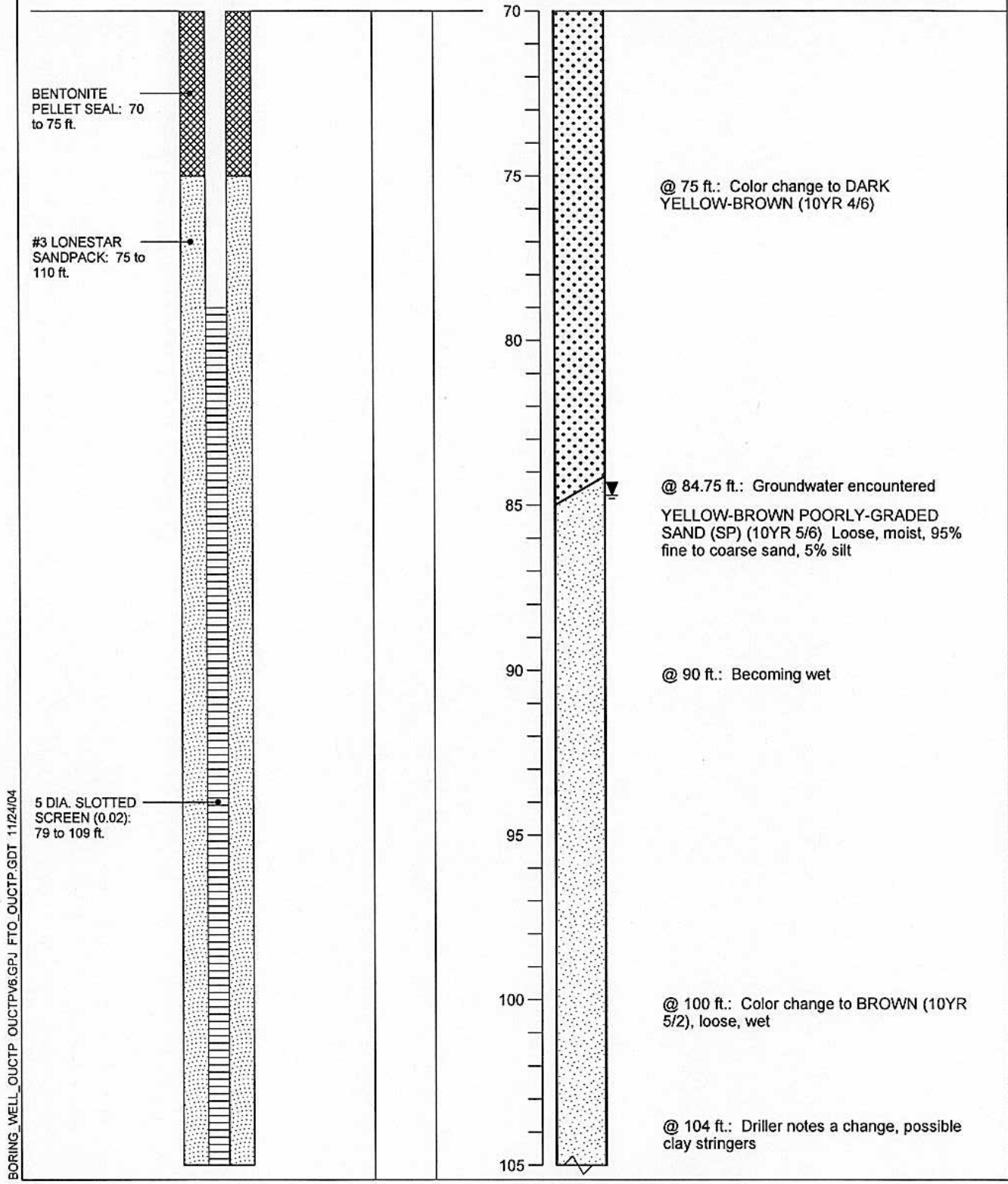
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Completion Date 8/12/2002
 Drilling Method Hollow Stem Auger
 Logged by DSB
 Surface Elevation 155.70 ft. Hole Dia. 12 in.
 Northing 2139168.53 Easting 5747940.95



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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**Well Construction Details and
Log of Boring MW-BW-55-A**
OUCTP

PLATE

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DATE
11/04

REVISED DATE

Completion Date 8/12/2002

Drilling Method Hollow Stem Auger

Logged by DSB

Surface Elevation 155.70 ft.

Hole Dia. 12 in.

Northing 2139168.53

Easting 5747940.95

Depth (ft.)
Sample

BOTTOM WELL
CAP, HOLE
CLEANED OUT to
110 ft.

105
110

LIGHT OLIVE-BROWN FAT CLAY (CH)
(2.5Y 5/3) Soft, moist, 90% clay, 5% fine
sand, 5% silt
Bottom of boring at 110 ft.

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-55-A
OUCTP

PLATE

Fort Ord, California

DRAWN
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JOB NUMBER
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DATE
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A77
REVISED DATE

Top of PVC Casing
Elev. 178.29 ft.

Completion Date 6/29/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 178.78 ft. Hole Dia. 7 in.

Northing 2137367.8 Easting 5749385.3

GROUND SURFACE

Top of casing at
0.5 ft. above
ground level

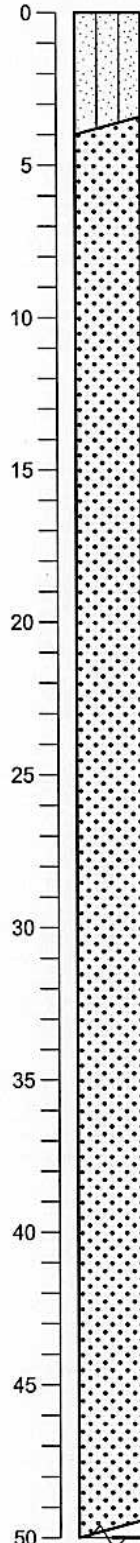
7 in. DIAMETER
BOREHOLE: 0 to
266 ft.

3 DIAMETER
SCHEDULE 40
PVC BLANK
CASING: 1 to 190
ft.

BENTONITE-
CEMENT SEAL: 2
to 25 ft.

BENTONITE
SLURRY: 25 to
179 ft.

Depth (ft.)
Sample



VERY DARK GRAY SILTY SAND (SM)
(10YR 3/1) Loose, dry, 80% fine to coarse
sand, 20% silt

@ 2.5 ft.: Change to YELLOWISH BROWN
(10YR 5/4)

LIGHT YELLOWISH BROWN WELL
GRADED SAND (SW) (10YR 6/4) Loose,
dry, 90% fine to coarse sand, 10% silt

@ 10 ft.: Similar to above

@ 12 ft.: Similar to above

@ 15 ft.: Similar to above

@ 20 ft.: Change to LIGHT OLIVE BROWN
(2.5Y 5/4)

@ 25 ft.: Similar to above

@ 30 ft.: Change to LIGHT YELLOWISH
BROWN (2.5Y 6/4)

@ 35 ft.: Similar to above

@ 40 ft.: Similar to above

@ 45 ft.: Similar to above

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



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**Well Construction Details and
Log of Boring MW-BW-56-180**

OUCTP

Fort Ord, California

PLATE

A78

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JOB NUMBER
55596 001701

APPROVED
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DATE
1/05

REVISED DATE

Completion Date 6/29/2003

Drilling Method Sonic

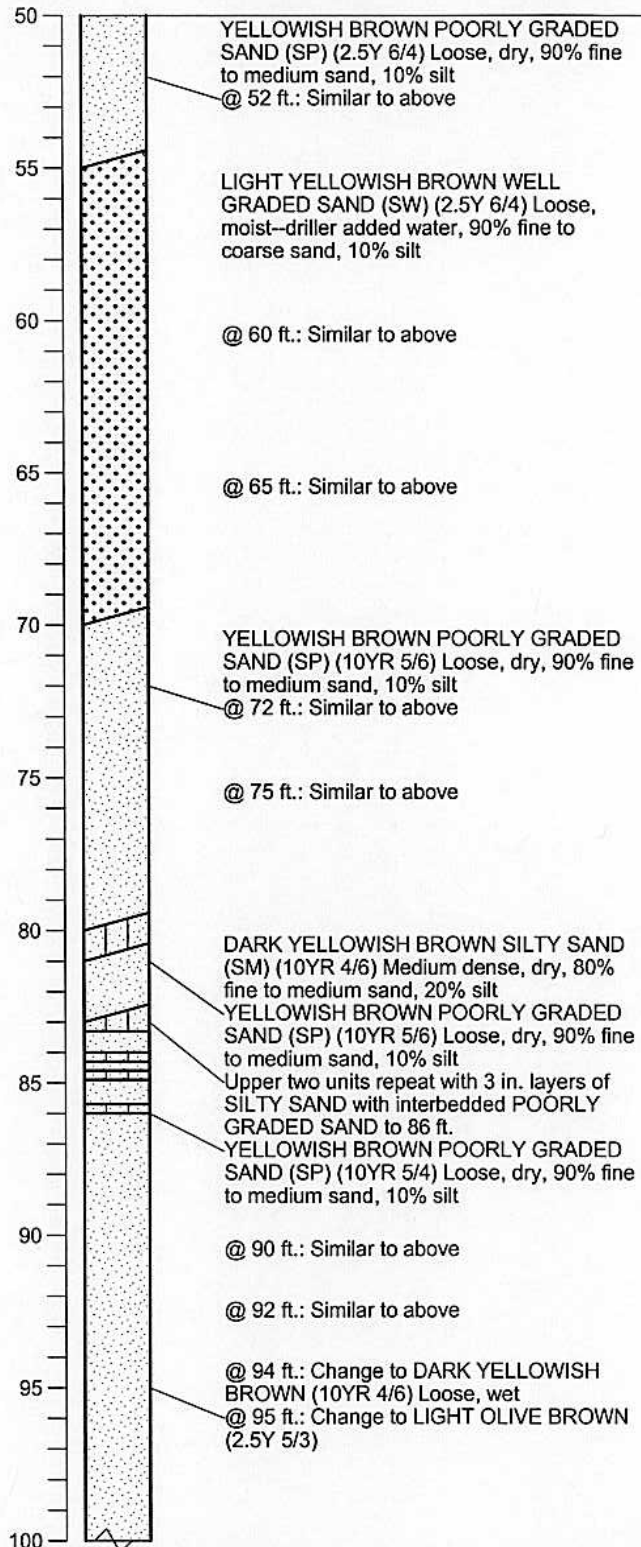
Logged by D. Browne

Surface Elevation 178.78 ft. Hole Dia. 7 in.

Northing 2137367.8 Easting 5749385.3

Depth (ft.)
Sample

BENTONITE
SLURRY: 25 to
179 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



MACTEC

Well Construction Details and
Log of Boring MW-BW-56-180

OUCTP

Fort Ord, California

PLATE

A78

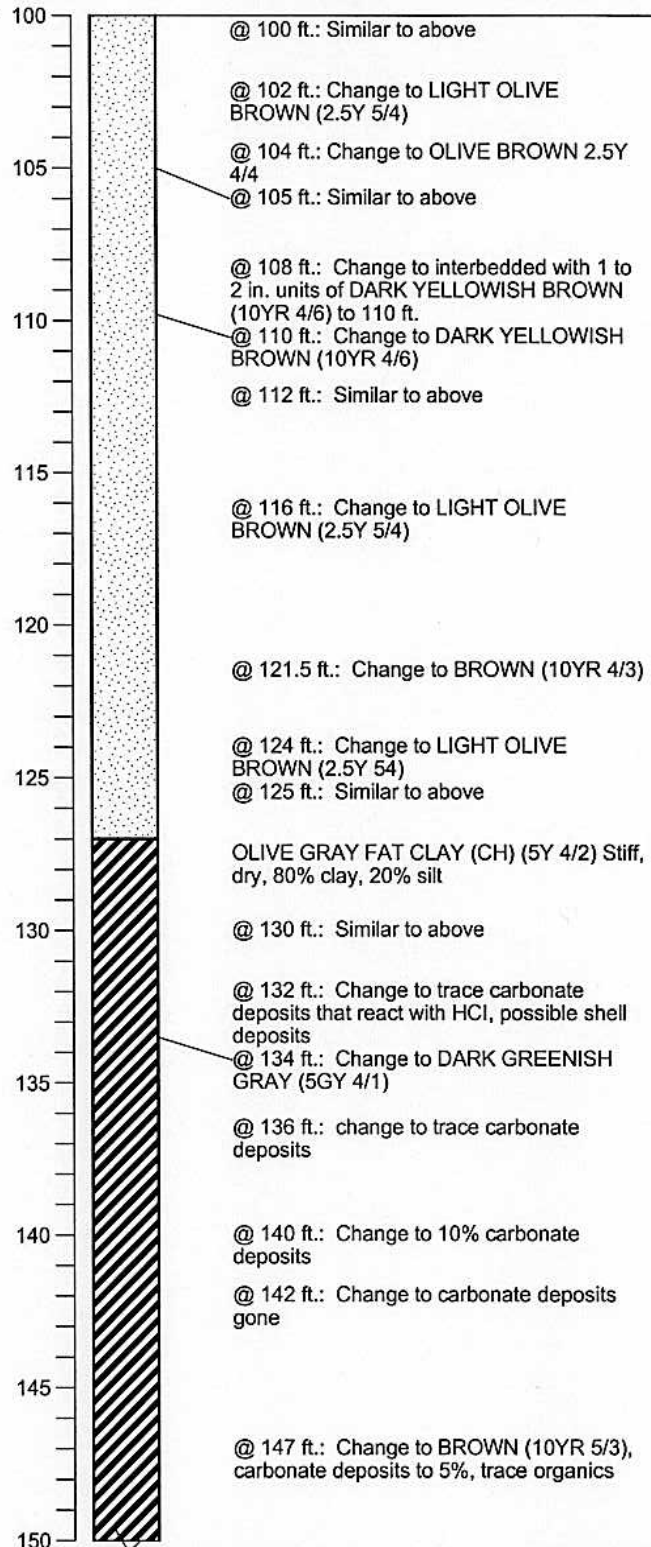
DRAWN
MBP

JOB NUMBER
55596 001701

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DATE
1/05

REVISED DATE

Completion Date 6/29/2003Drilling Method SonicLogged by D. BrowneSurface Elevation 178.78 ft. Hole Dia. 7 in.Northing 2137367.8 Easting 5749385.3Depth (ft.)
SampleBENTONITE
SLURRY: 25 to
179 ft.

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



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Well Construction Details and
Log of Boring MW-BW-56-180
OUCTP

PLATE

Fort Ord, California

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*MDT/cw*DATE
1/05

REVISED DATE

Completion Date 6/29/2003

Drilling Method Sonic

Logged by D. Browne

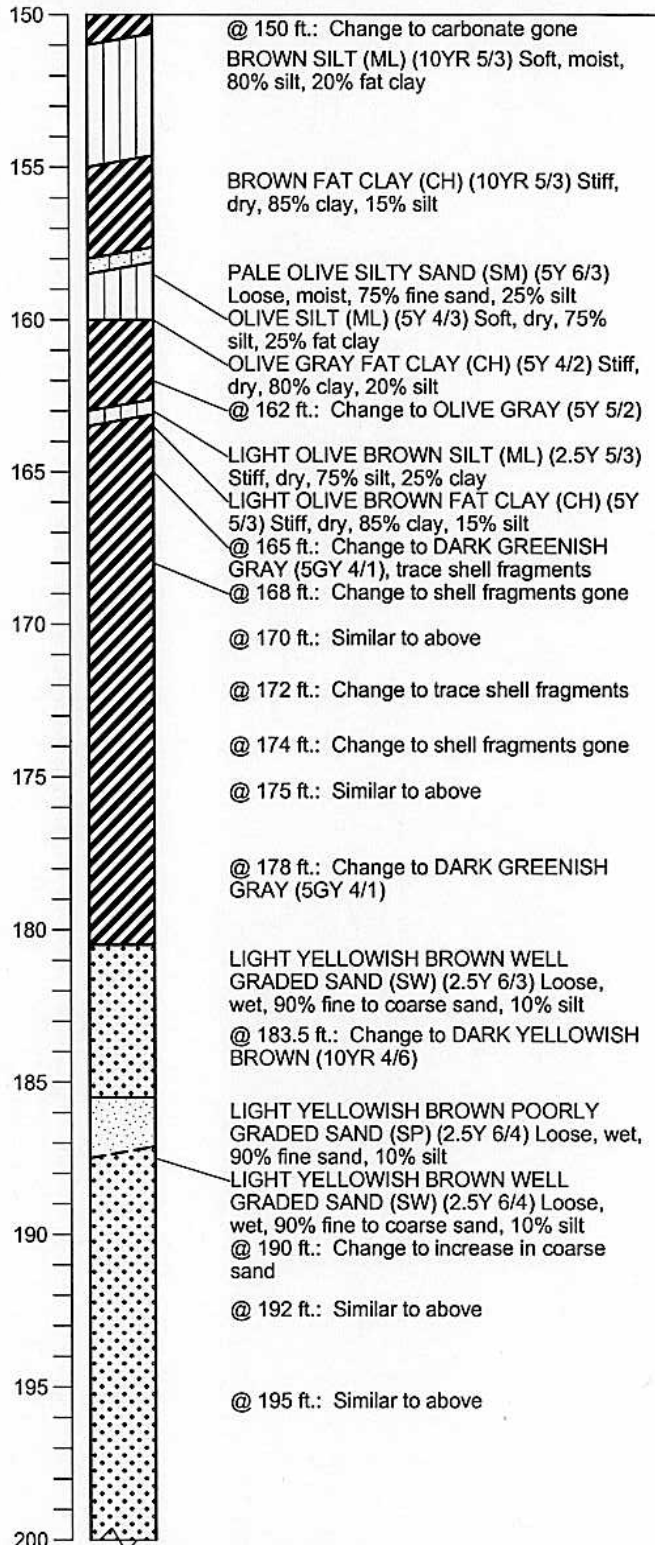
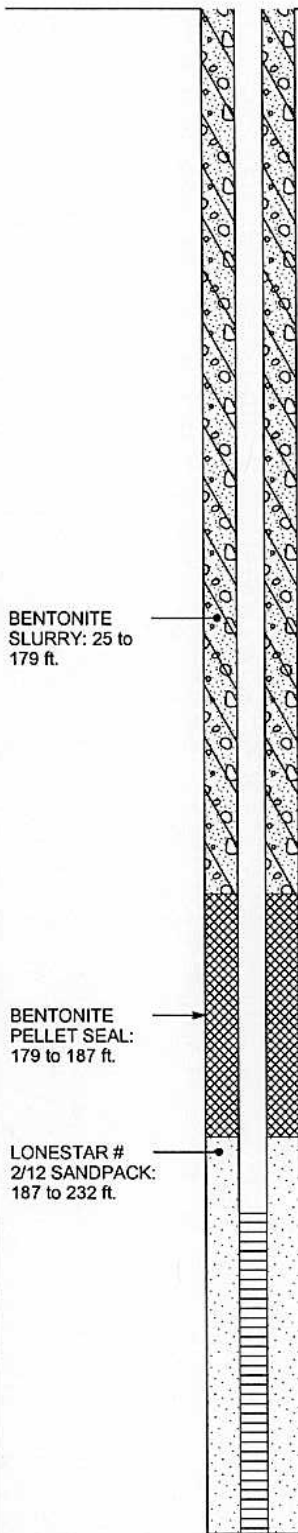
Surface Elevation 178.78 ft.

Hole Dia. 7 in.

Northing 2137367.8

Easting 5749385.3

Depth (ft.)
Sample



Well Construction Details and
Log of Boring MW-BW-56-180
OUCTP

PLATE



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Fort Ord, California

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MBP

JOB NUMBER
55596 001701

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DATE
1/05

REVISED DATE

A78

Completion Date 6/29/2003

Drilling Method Sonic

Logged by D. Browne

Surface Elevation 178.78 ft. Hole Dia. 7 in.

Northing 2137367.8 Easting 5749385.3

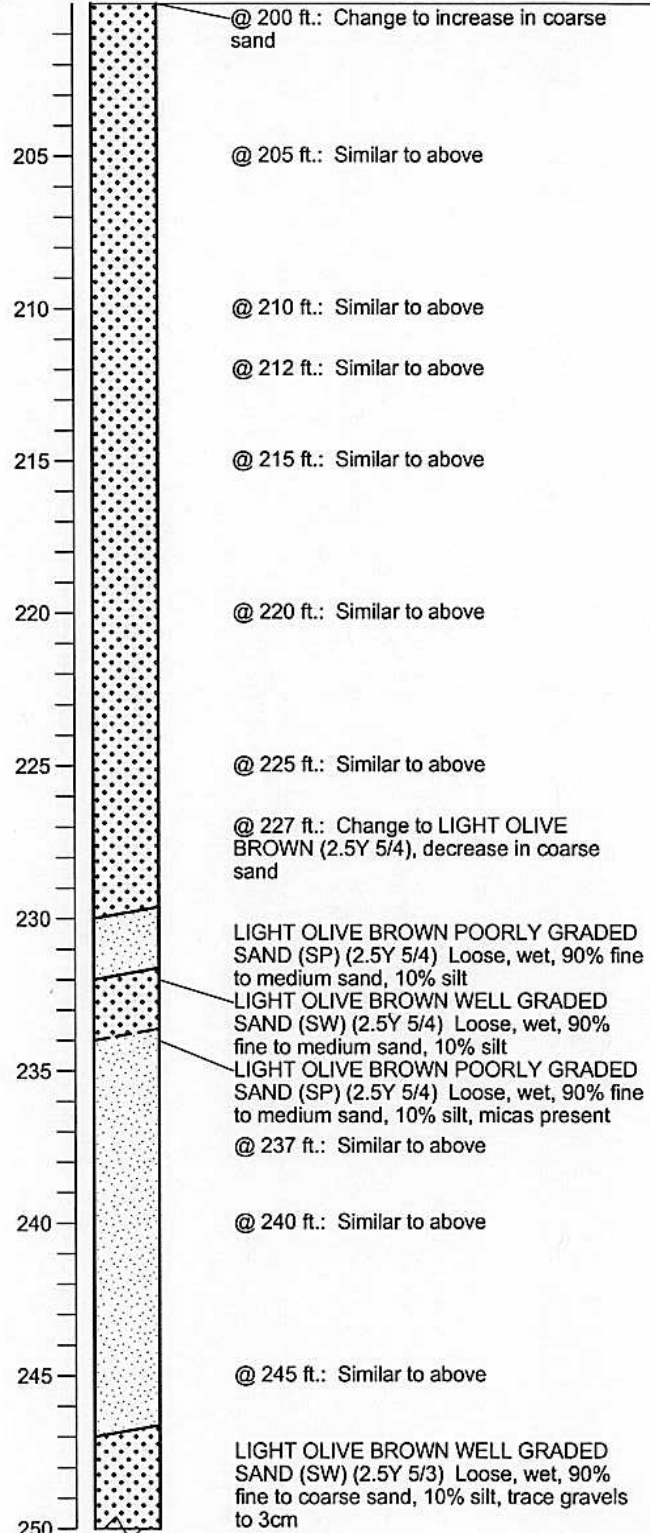
Depth (ft.)
Sample

3 in. DIAMETER
SLOTTED (0.02
in.) SCREEN: 189
to 229.5 ft.

3 in. DIAMETER
SLOTTED (0.02
in.) SCREEN: 189
to 229.5 ft.

End cap to bottom
of screen: 6 in.
BOTTOM WELL
CAP: 230 ft.
LONESTAR #
2/12 SANDPACK:
187 to 232 ft.

BENTONITE
CHIPS: 232 to
266



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



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Well Construction Details and
Log of Boring MW-BW-56-180

OUCTP

Fort Ord, California

PLATE

A78

DRAWN
MBP

JOB NUMBER
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APPROVED

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DATE
1/05

REVISED DATE

Completion Date 6/29/2003

Drilling Method Sonic

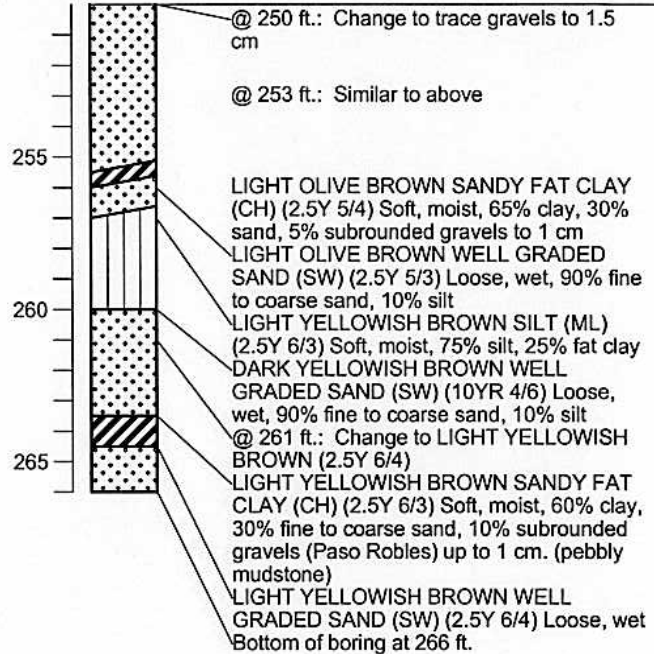
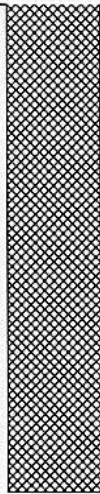
Logged by D. Browne

Surface Elevation 178.78 ft. Hole Dia. 7 in.

Northing 2137367.8 Easting 5749385.3

Depth (ft.)
Sample

ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



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Well Construction Details and
Log of Boring MW-BW-56-180
OUCTP

Fort Ord, California

PLATE

A78

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED

MDT / cm

DATE
1/05

REVISED DATE

Top of PVC Casing
Elev. 142.74 ft.

GROUND SURFACE
Top of casing at
1.5 ft. above
ground surface

12 DIA.
BOREHOLE: 0 to
100 ft.

5 DIA. SCHED. 40
PVC BLANK
CASING: 0 to 67
ft.

BENTONITE-CEMENT
SEAL: 0 to 67 ft.

Completion Date 8/7/2002

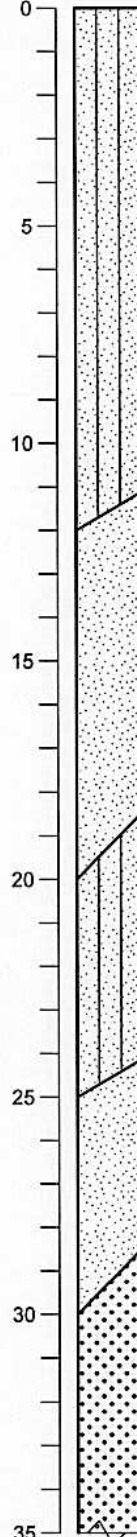
Drilling Method Hollow Stem Auger

Logged by DSB

Surface Elevation 141.95 ft. Hole Dia. 12 in.

Northing 2140065.76 Easting 5749393.01

Depth (ft.)
Sample



DARK GRAY-BROWN SILTY SAND (SM)
(2.5Y 4/2) Loose, dry 70% fine to coarse
sand, 30% silt

@ 3 ft.: Color change to DARK
YELLOW-BROWN (10YR 3/4)

Decrease in silt to 20%

YELLOW-BROWN POORLY-GRADED
SAND (SP) (10YR 5/6) Loose, dry, 95%
fine to medium-grained sand, 5% silt

@ 15 ft.: Increase in coarse-grained sand

DARK GRAY-BROWN WELL-GRADED
SAND WITH SILT (SW-SM) (2.5Y 4/2)
Loose, dry, 90% fine to coarse sand, 10%
silt

DARK YELLOW-BROWN
POORLY-GRADED SAND (SP) (10YR 4/6)
Loose, dry to moist, 95% fine-grained sand

DARK YELLOW-BROWN WELL-GRADED
SAND (SW) (10YR 4/6) Loose, moist to
dry, 95% fine to coarse sand, 5% silt

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-56-A

OUCTP

Fort Ord, California

PLATE

A79

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JOB NUMBER
55596 001701

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DATE
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Completion Date 8/7/2002

Drilling Method Hollow Stem Auger

Logged by DSB

Surface Elevation 141.95 ft. Hole Dia. 12 in.

Northing 2140065.76 Easting 5749393.01

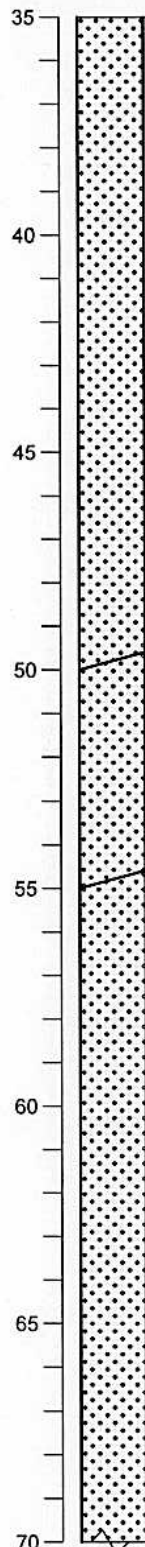
Depth (ft.)
Sample



BENTONITE-CEMENT
SEAL: 0 to 67 ft.

BENTONITE
PELLET SEAL: 61
to 64 ft.

#3 LONESTAR
SANDPACK: 64 to
100 ft.



LIGHT OLIVE-BROWN WELL-GRADED
SAND (SW) (2.5Y 5/4) Loose, moist, fine-
to coarse-grained

YELLOW-BROWN WELL-GRADED SAND
(SW) (10YR 5/4) Loose, moist, 95% fine to
coarse sand, 5% silt

BORING - WELL - OUCTP OUCTP V6 GPJ FTO OUCTP GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-56-A
OUCTP

PLATE

A79

Fort Ord, California

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11/04

REVISED DATE

Completion Date 8/7/2002

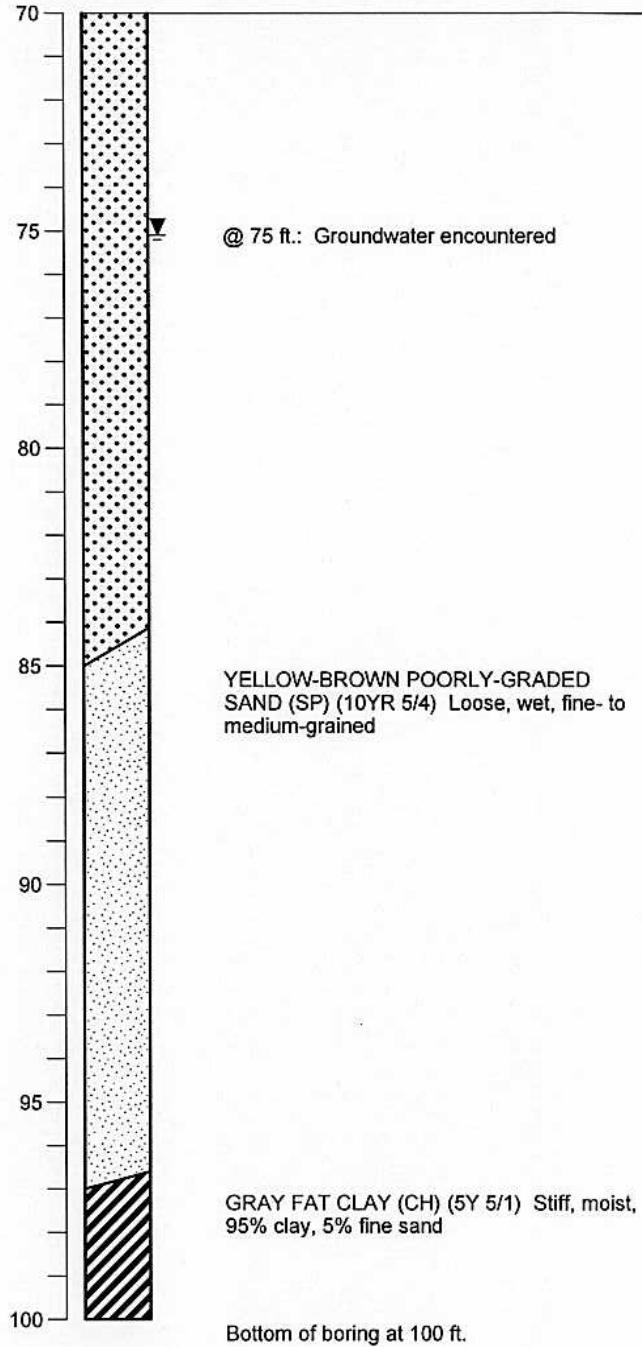
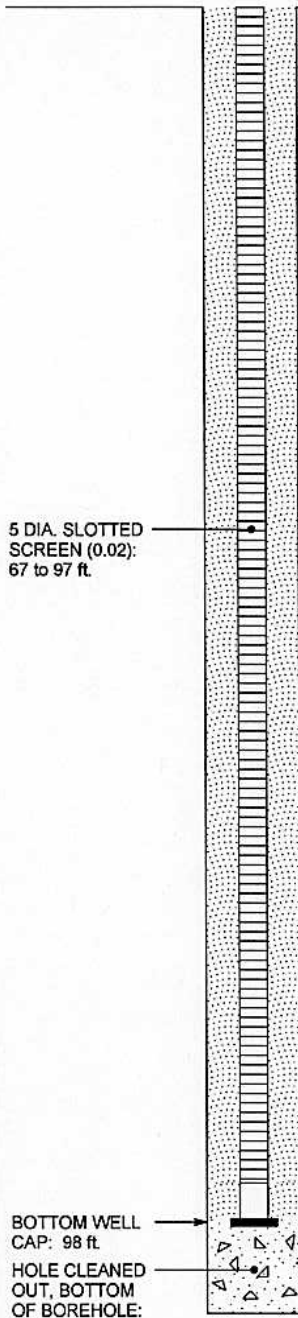
Drilling Method Hollow Stem Auger

Logged by DSB

Surface Elevation 141.95 ft. Hole Dia. 12 in.

Northing 2140065.76 Easting 5749393.01

Depth (ft.)
Sample



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-56-A
OUCTP

Fort Ord, California

DRAWN
CN

JOB NUMBER
55596 001701

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DATE
11/04

REVISED DATE

A79

PLATE

Top of PVC Casing
Elev. 146.11 ft.

GROUND SURFACE
Top of casing at
ft. above
ground surface

12 DIA.
BOREHOLE: 0 to
105 ft.

5 DIA. SCHED. 40
PVC BLANK
CASING: 0 to 74
ft.

BENTONITE-CEMENT
SEAL: 0 to 65 ft.

Completion Date 8/8/2002

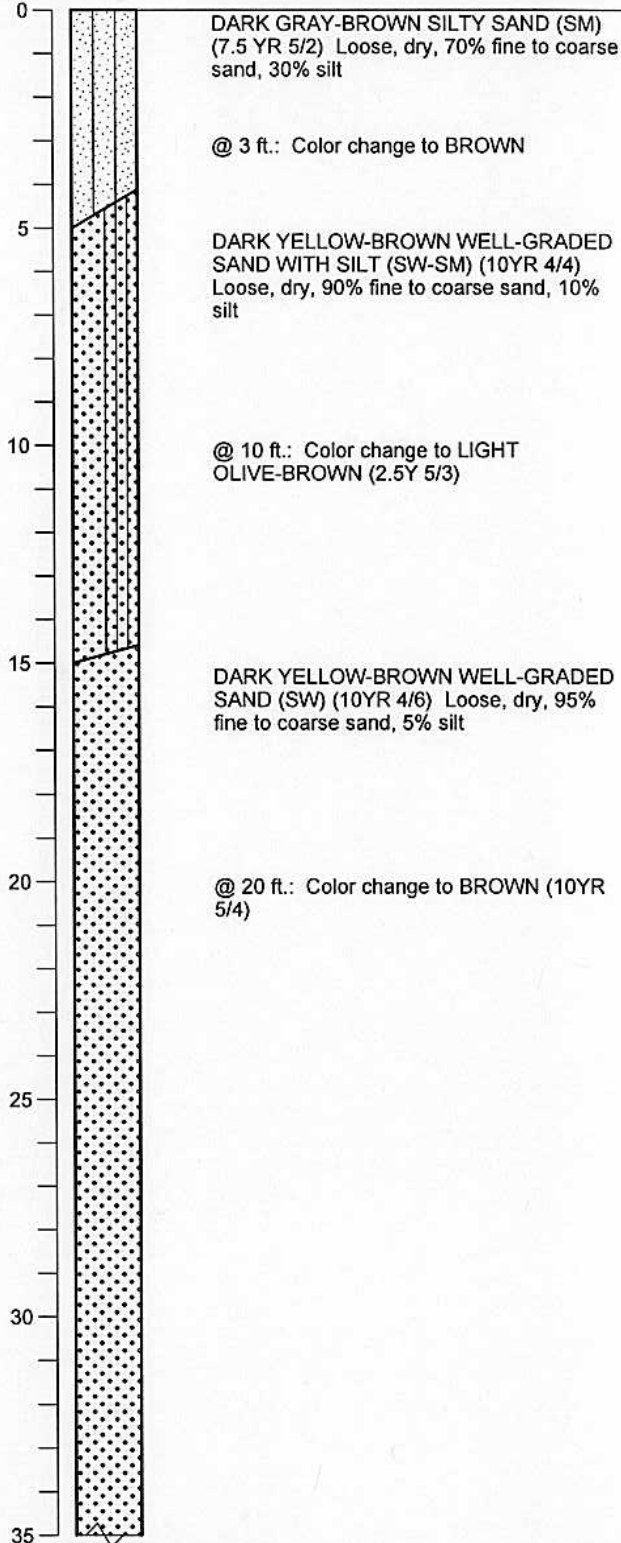
Drilling Method Hollow Stem Auger

Logged by DSB

Surface Elevation 144.28 ft. Hole Dia. 12 in.

Northing 2140300.39 Easting 5749032.76

Depth (ft.)
Sample



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-57-A
OUCTP

PLATE

Fort Ord, California

A80

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JOB NUMBER
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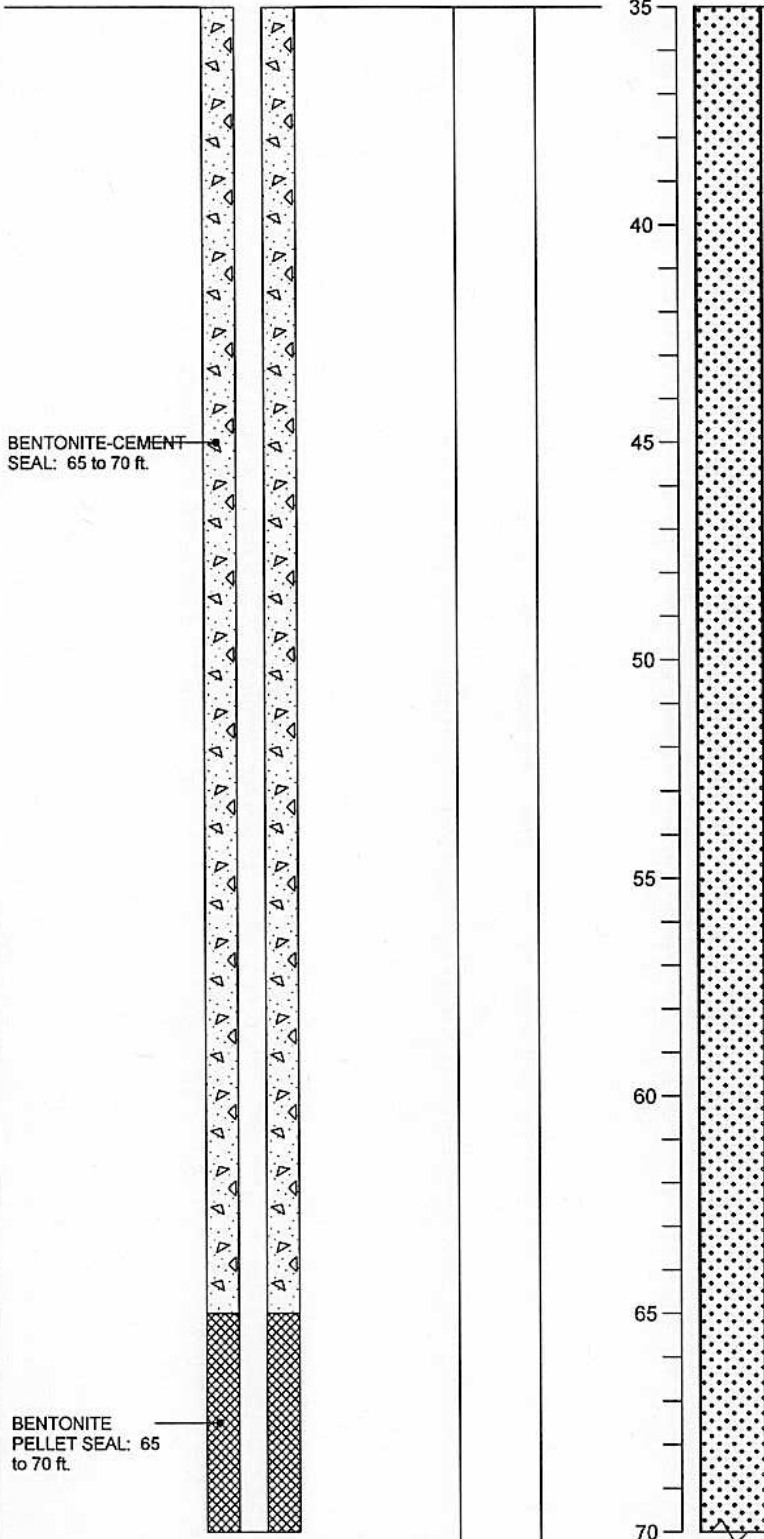
MDT / cm

DATE
11/04

REVISED DATE

Completion Date 8/8/2002
 Drilling Method Hollow Stem Auger
 Logged by DSB
 Surface Elevation 144.28 ft. Hole Dia. 12 in.
 Northing 2140300.39 Easting 5749032.76

Depth (ft.)
 Sample



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
 Log of Boring MW-BW-57-A
 OUCTP

PLATE



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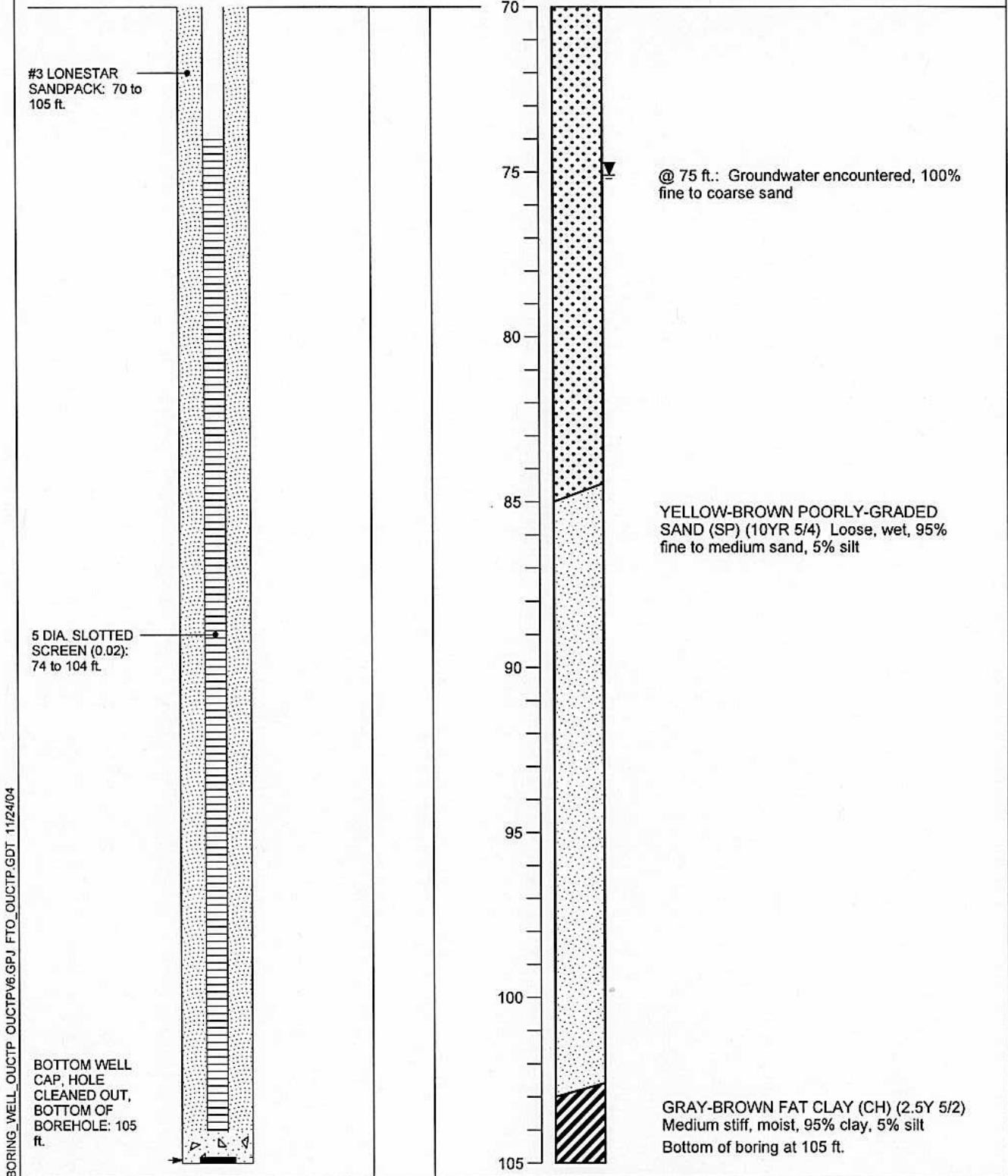
MDT/cmr

DATE
 11/04

REVISED DATE

A80

Completion Date 8/8/2002
 Drilling Method Hollow Stem Auger
 Logged by DSB
 Surface Elevation 144.28 ft. Hole Dia. 12 in.
 Northing 2140300.39 Easting 5749032.76



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
 Log of Boring MW-BW-57-A
 OUCTP

PLATE

Fort Ord, California

A80

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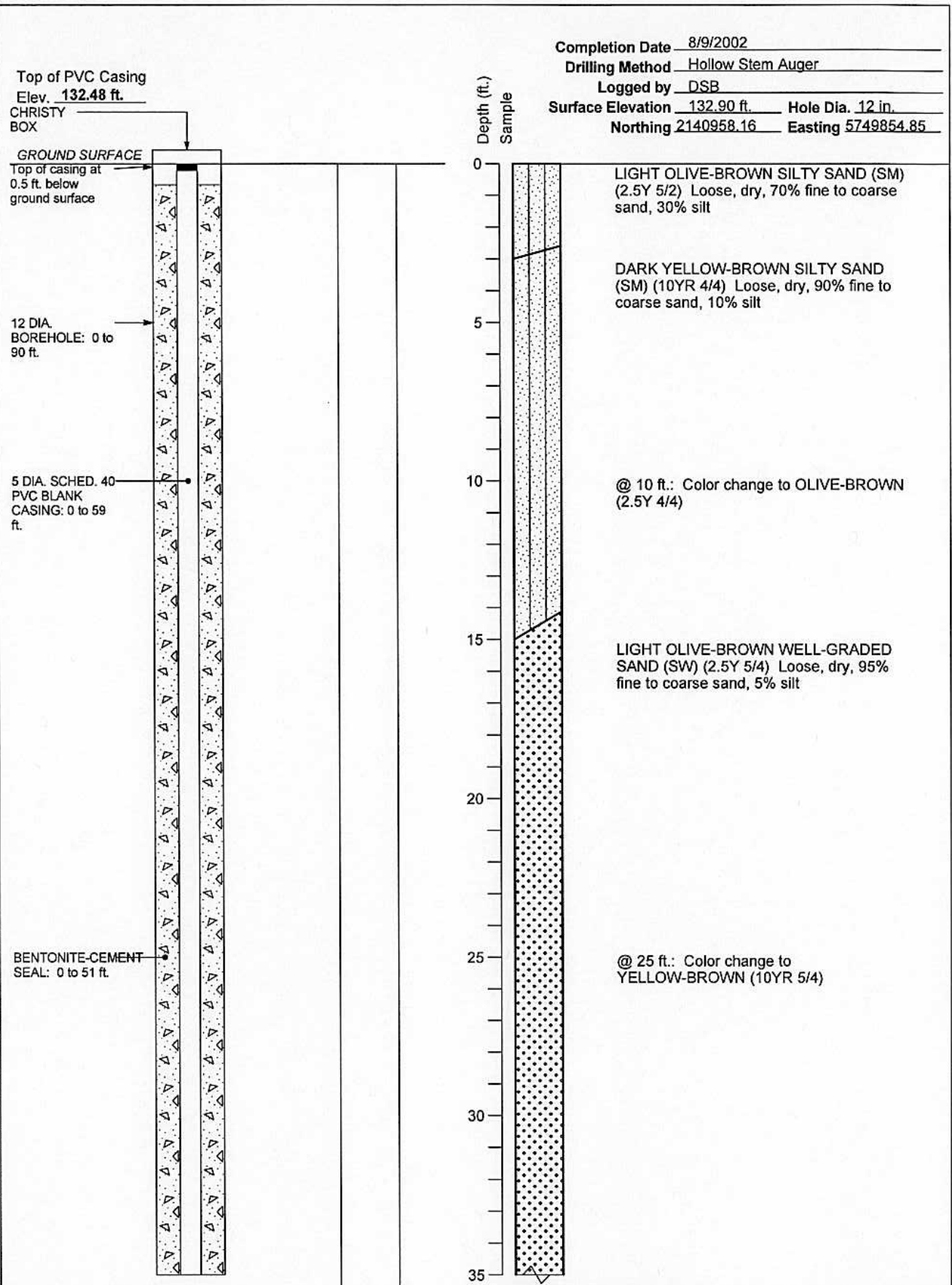
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MSI / cm

DATE
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BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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Well Construction Details and
Log of Boring MW-BW-58-A
OUCTP

PLATE

A81

Fort Ord, California

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JOB NUMBER
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MDT/cmr

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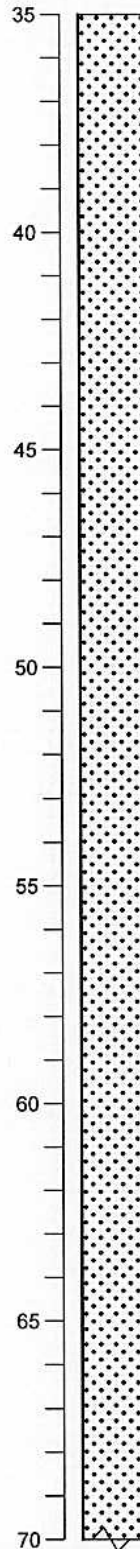
Completion Date 8/9/2002
 Drilling Method Hollow Stem Auger
 Logged by DSB
 Surface Elevation 132.90 ft. Hole Dia. 12 in.
 Northing 2140958.16 Easting 5749854.85

Depth (ft.)
 Sample

BENTONITE-CEMENT
 SEAL: 0 to 51 ft.

BENTONITE
 PELLET SEAL: 51
 to 56 ft.

#3 LONESTAR
 SANDPACK: 56 to
 90 ft.



@ 45 ft.: Color change to
 YELLOW-BROWN (10YR 5/6)

@ 55 ft.: Becoming moist to dry

@ 60 ft.: Decrease in coarse-grained sand

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-58-A
 OUCTP

PLATE

Fort Ord, California

A81

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JOB NUMBER
 55596 001701

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DATE
 11/04

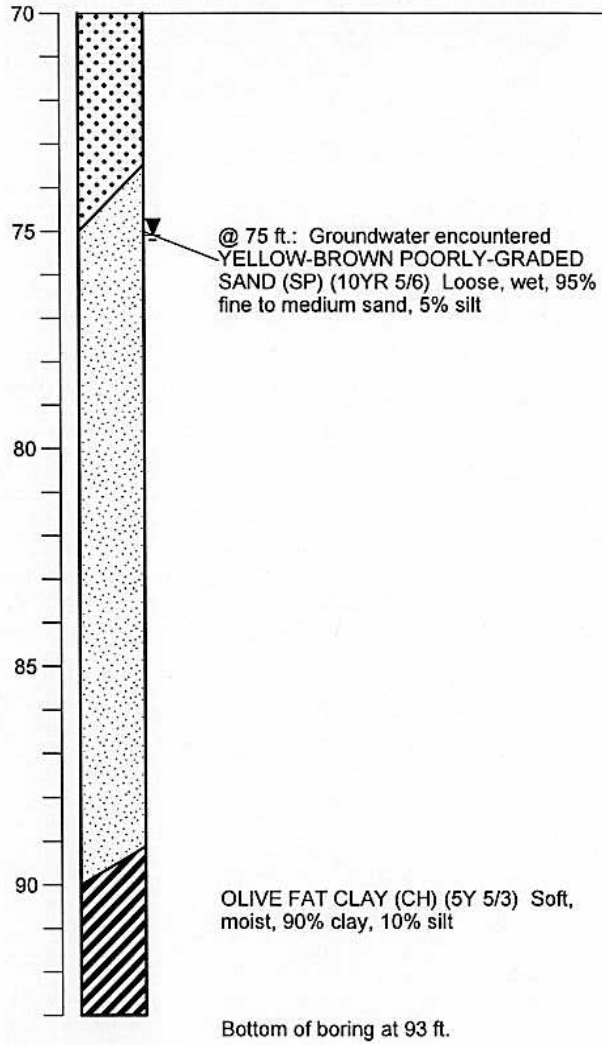
REVISED DATE

Completion Date 8/9/2002
 Drilling Method Hollow Stem Auger
 Logged by DSB
 Surface Elevation 132.90 ft. Hole Dia. 12 in.
 Northing 2140958.16 Easting 5749854.85

Depth (ft.)
 Sample

5 DIA. SLOTTED
 SCREEN (0.02):
 59 to 89 ft.

BOTTOM WELL
 CAP, HOLE
 CLEANED OUT,
 BOTTOM OF
 BOREHOLE: 90 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
 Log of Boring MW-BW-58-A
 OUCTP

PLATE



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Fort Ord, California

A81

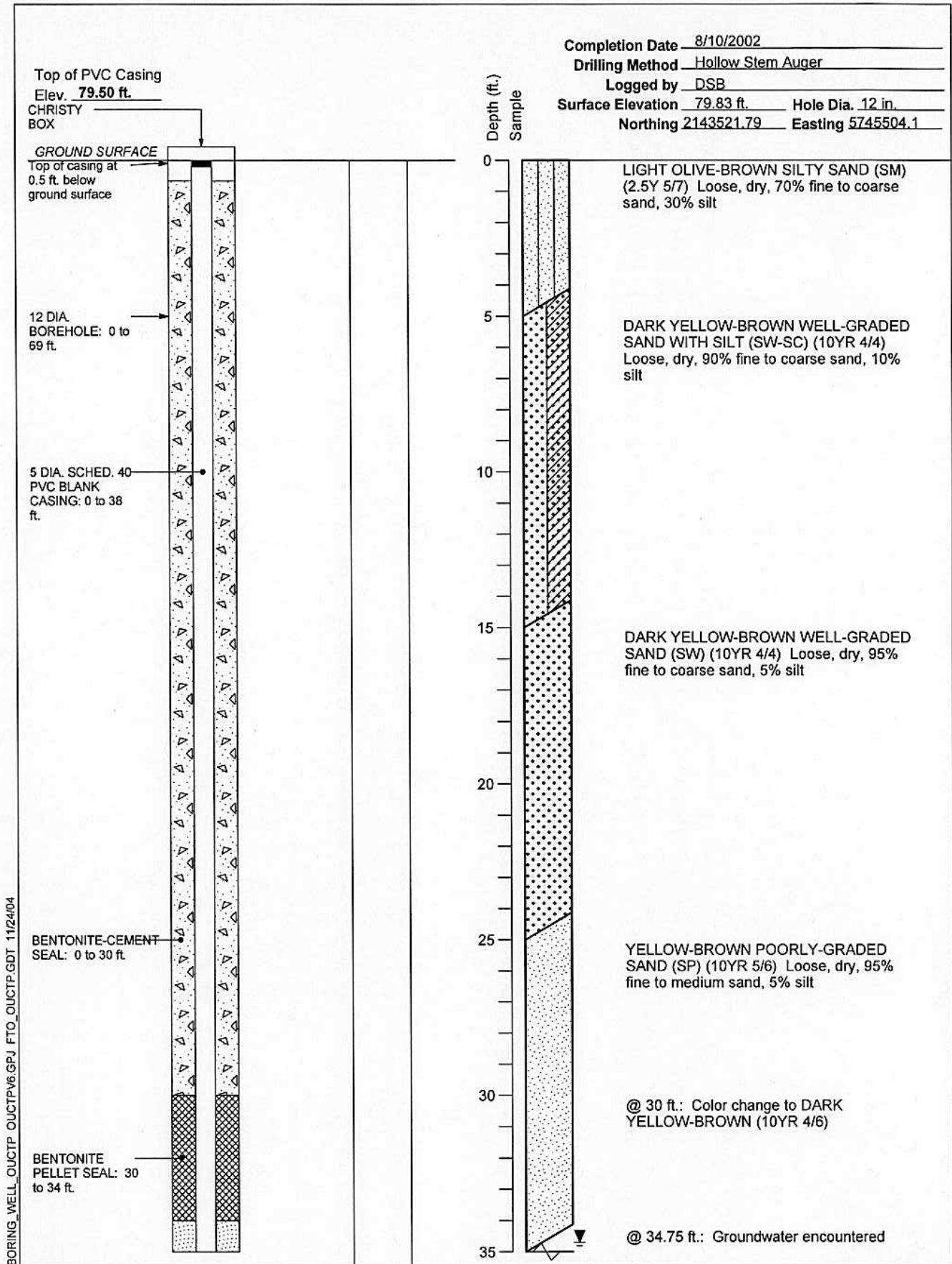
DRAWN
 CN

JOB NUMBER
 55596 001701

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Well Construction Details and
Log of Boring MW-BW-59-A
OUCTP

PLATE

Fort Ord, California

A82

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CN

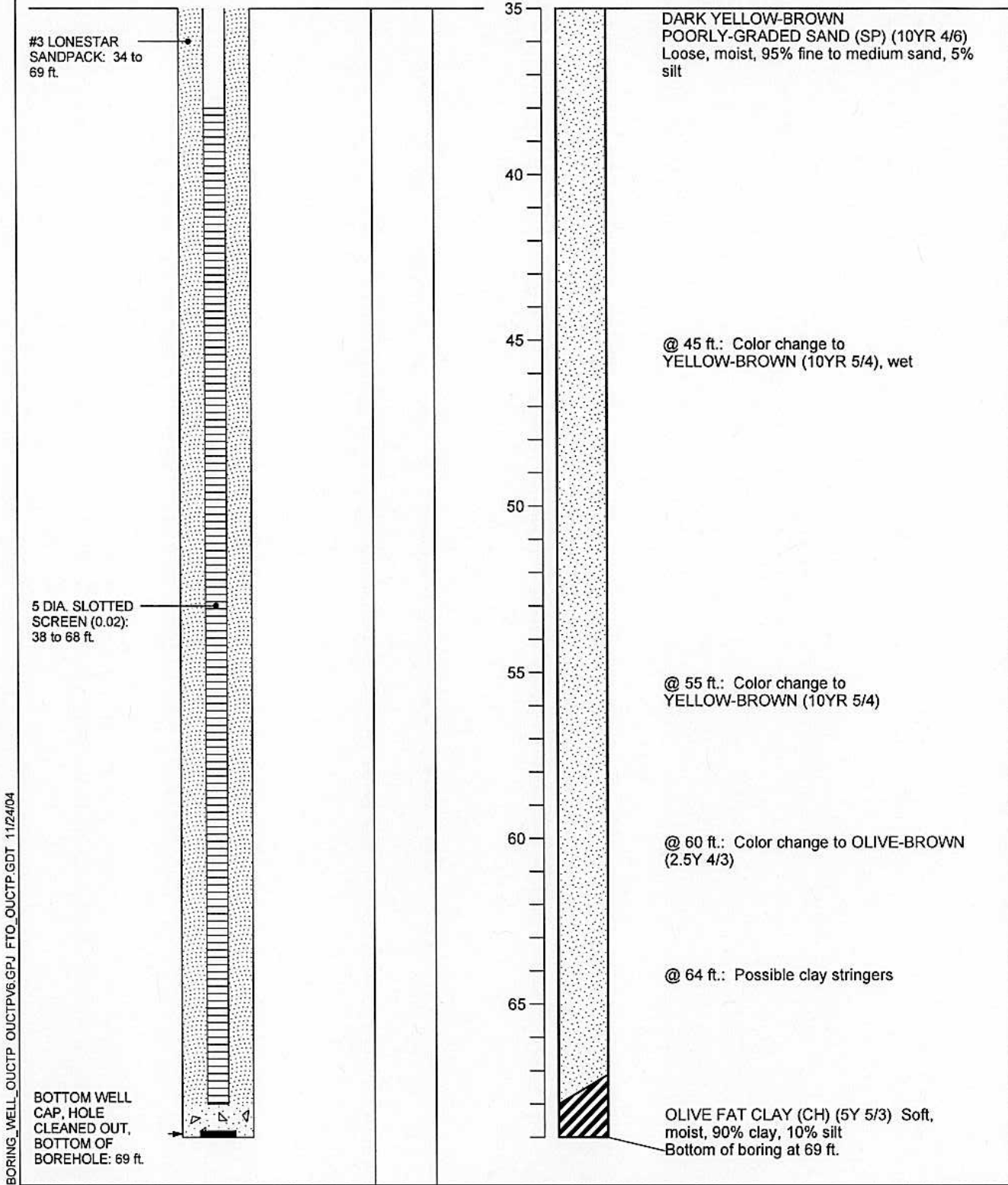
JOB NUMBER
55596 001701

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DATE
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REVISED DATE

Completion Date 8/10/2002
 Drilling Method Hollow Stem Auger
 Logged by DSB
 Surface Elevation 79.83 ft. Hole Dia. 12 in.
 Northing 2143521.79 Easting 5745504.1



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-59-A
 OUCTP

PLATE

A82

Fort Ord, California

DRAWN
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JOB NUMBER
 55596 001701

APPROVED
 MDT / *cm*

DATE
 11/04

REVISED DATE

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Top of PVC Casing
Elev. **151.89 ft.**
CHRISTY
BOX

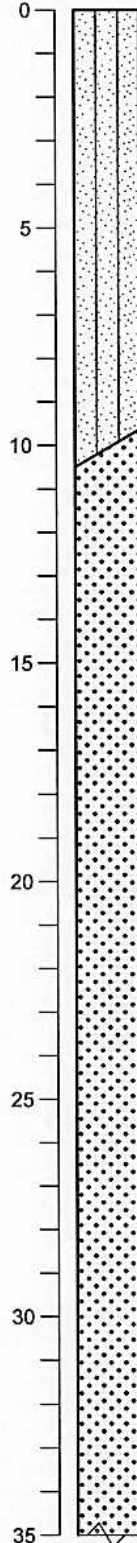
GROUND SURFACE
Top of casing at
0.5 ft. below
ground surface

12 DIA.
BOREHOLE: 0 to
64 ft.

5 DIA. SCHED. 40
PVC BLANK
CASING: 0 to 64
ft.

BENTONITE-CEMENT
SEAL: 0 to 57 ft.

Depth (ft.)
Sample



DARK GRAY-BROWN SILTY SAND (SM)
(2.5Y 4/2) Loose, dry, 70% fine to coarse
sand, 30% silt

@ 5 ft.: Change to RED-BROWN (2.5YR
4/3), 90% fine to coarse sand, 10% silt

BROWN WELL-GRADED SAND (SW) (7.5
YR 4/3) Loose, dry, 95% fine to coarse
sand, 5% silt

@ 15 ft.: Color change to LIGHT
YELLOW-BROWN (2.5Y 6/4)

@ 20 ft.: Color change to OLIVE-BROWN
(2.5Y 4/4)

@ 25 ft.: Color change to LIGHT
YELLOW-OLIVE (2.5Y 6/4)

@ 30 ft.: Color change to OLIVE-BROWN
(2.5Y 4/4)

Completion Date 8/8/2002
Drilling Method Hollow Stem Auger
Logged by SK
Surface Elevation 150.55 ft. Hole Dia. 12 in.
Northing 2140860.82 Easting 5748120.5



MACTEC

Well Construction Details and
Log of Boring MW-BW-60-A
OUCTP

PLATE

Fort Ord, California

A83

DRAWN
CN

JOB NUMBER
55596 001701

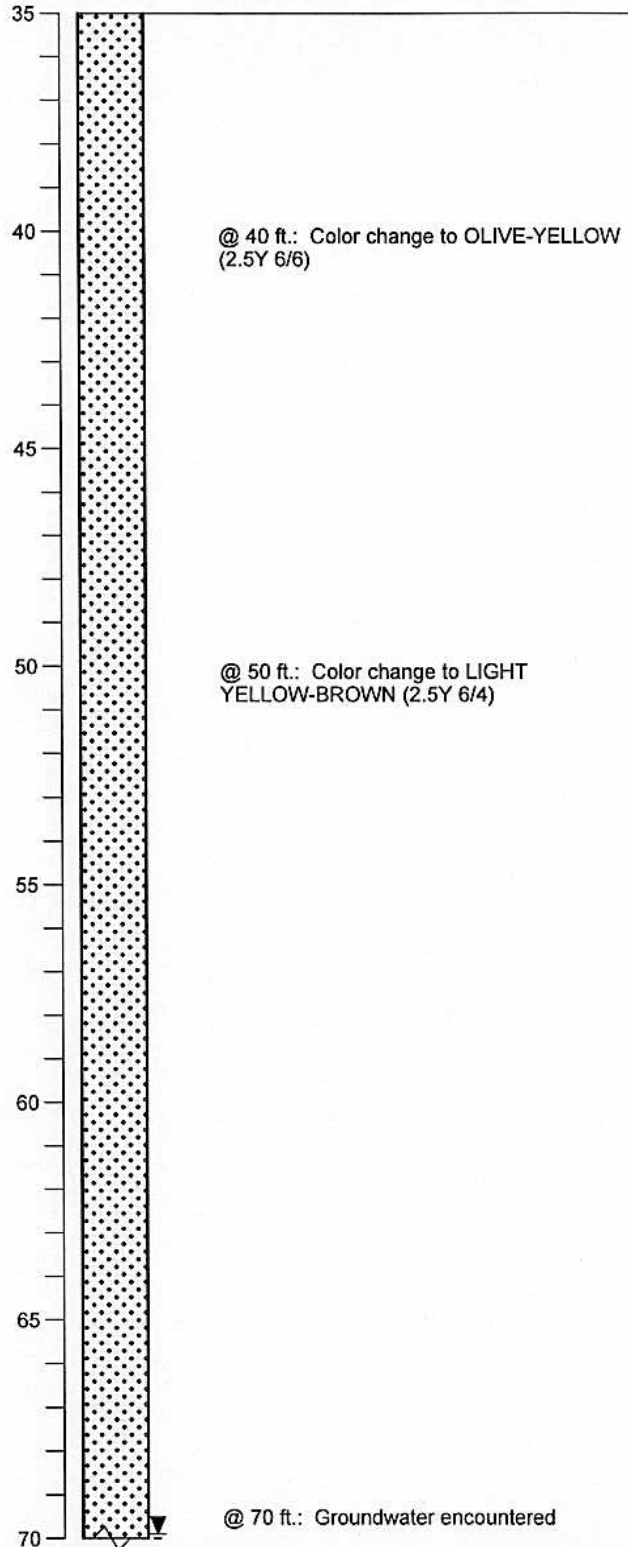
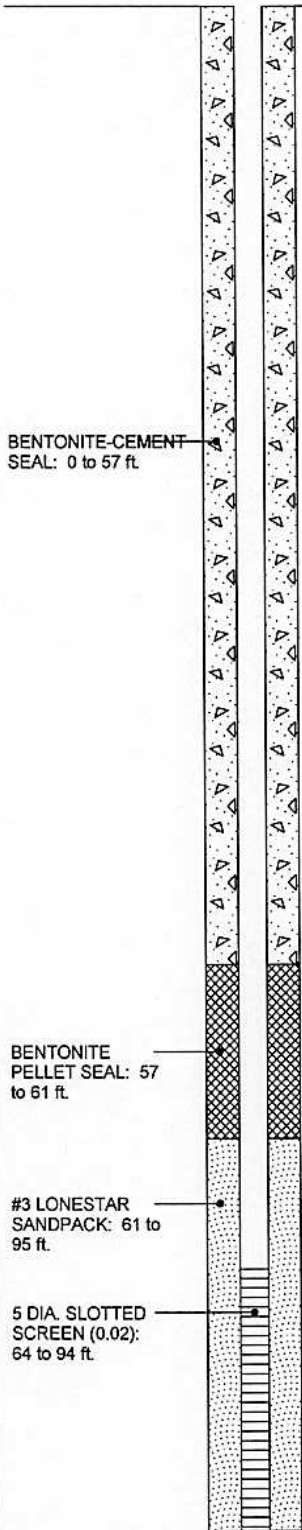
APPROVED
MDT / CW

DATE
11/04

REVISED DATE

Completion Date 8/8/2002
 Drilling Method Hollow Stem Auger
 Logged by SK
 Surface Elevation 150.55 ft. Hole Dia. 12 in.
 Northing 2140860.82 Easting 5748120.5

Depth (ft.)
 Sample



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

Well Construction Details and
 Log of Boring MW-BW-60-A
 OUCTP

PLATE



MACTEC

Fort Ord, California

A83

DRAWN
CN

JOB NUMBER
55596 001701

APPROVED

MDT/cwr

DATE
11/04

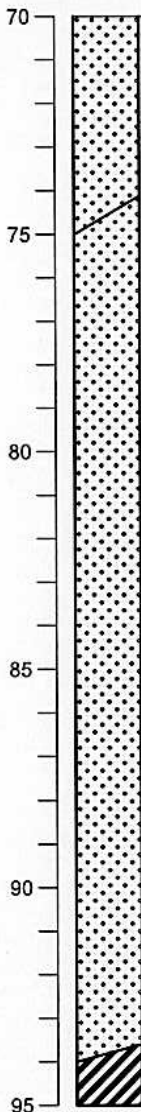
REVISED DATE

Completion Date 8/8/2002
 Drilling Method Hollow Stem Auger
 Logged by SK
 Surface Elevation 150.55 ft. Hole Dia. 12 in.
 Northing 2140860.82 Easting 5748120.5

Depth (ft.)
 Sample

5 DIA. SLOTTED
 SCREEN (0.02):
 64 to 94 ft.

BOTTOM WELL
 CAP, HOLE
 CLEANED OUT,
 BOTTOM OF
 BOREHOLE: 95
 ft.



LIGHT YELLOW-BROWN WELL-GRADED
 SAND (SW) (2.5Y 6/4) Loose, wet, 95%
 sand, 5% silt

DARK GRAY-BROWN FAT CLAY (CH)
 (2.5Y 4/2) Soft, moist, 100% clay, <5% silt

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-60-A
 OUCTP

PLATE

A83

Fort Ord, California

DRAWN
 CN

JOB NUMBER
 55596 001701

APPROVED
MDT / car

DATE
 11/04

REVISED DATE

Top of PVC Casing
Elev. 180.93 ft.
CHRISTY
BOX

GROUND SURFACE

5 in. DIAMETER
SCHEDULE 80
PVC BLANK
CASING: 0.5 to
130 ft.

10 in. DIAMETER
BOREHOLE: 0 to
135 ft.

BENTONITE-
CEMENT SEAL: 0
to 50 ft.

Completion Date 6/3/2003

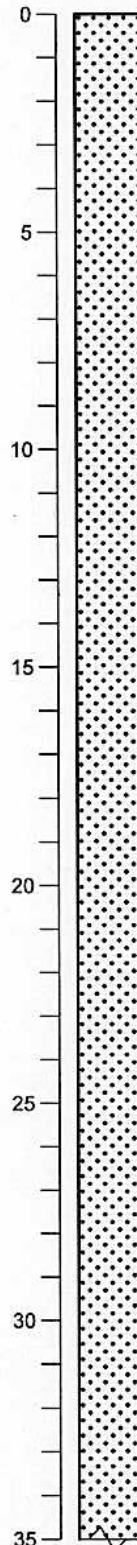
Drilling Method ARCH/mud rotary

Logged by J. Newman

Surface Elevation 180.96 ft. Hole Dia. 10 in.

Northing 2137597.4 Easting 5747971.5

Depth (ft.)
Sample



YELLOWISH BROWN WELL GRADED
SAND (SW) (10YR 5/2) Loose, dry, 85%
fine to medium sand, 10% silt, 5% organics

@ 3.5 ft.: Change to OLIVE YELLOW (2.5Y
6/6) Loose, moist, 95% fine to medium
sand, 5% silt

@ 6 ft.: Similar to above

@ 10 ft.: Change to LIGHT YELLOWISH
BROWN (2.5Y 6/4) 100% fine to medium
sand

@ 15 ft.: Change to LIGHT OLIVE BROWN
(2.5Y 5/4)

@ 20 ft.: Similar to above

@ 25 ft.: Change to LIGHT YELLOWISH
BROWN (2.5Y 6/4) Medium dense, moist,
95% fine to medium sand, 5% silt

@ 30 ft.: Similar to above

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/17/05



MACTEC

Well Construction Details and
Log of Boring MW-BW-61-A
OUCTP

Fort Ord, California

PLATE

A84

DRAWN
MBP

JOB NUMBER
55596 001701

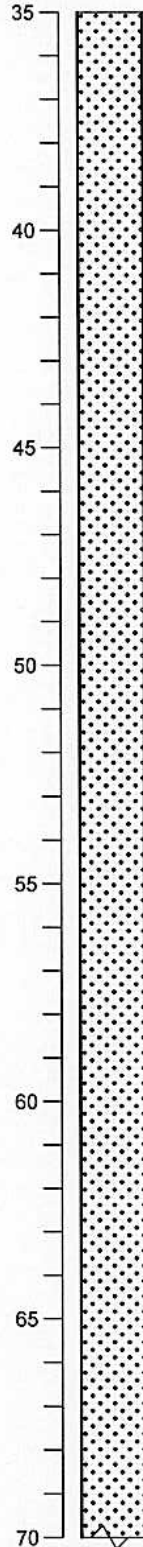
APPROVED
MOT / car

DATE
1/05

REVISED DATE

Completion Date 6/3/2003
 Drilling Method ARCH/mud rotary
 Logged by J. Newman
 Surface Elevation 180.96 ft. Hole Dia. 10 in.
 Northing 2137597.4 Easting 5747971.5

Depth (ft.)
 Sample



@ 35 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/6)

@ 40 ft.: Similar to above

@ 45 ft.: Similar to above

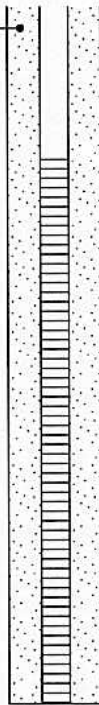
@ 50 ft.: Similar to above

@ 55 ft.: Similar to above

@ 60 ft.: Similar to above

@ 65 ft.: Change to 95% fine to coarse sand, 5% silt

#3 SANDPACK: 54 to 93 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/17/05



MACTEC

Well Construction Details and
 Log of Boring MW-BW-61-A
 OUCTP

PLATE

A84

Fort Ord, California

DRAWN
 MBP

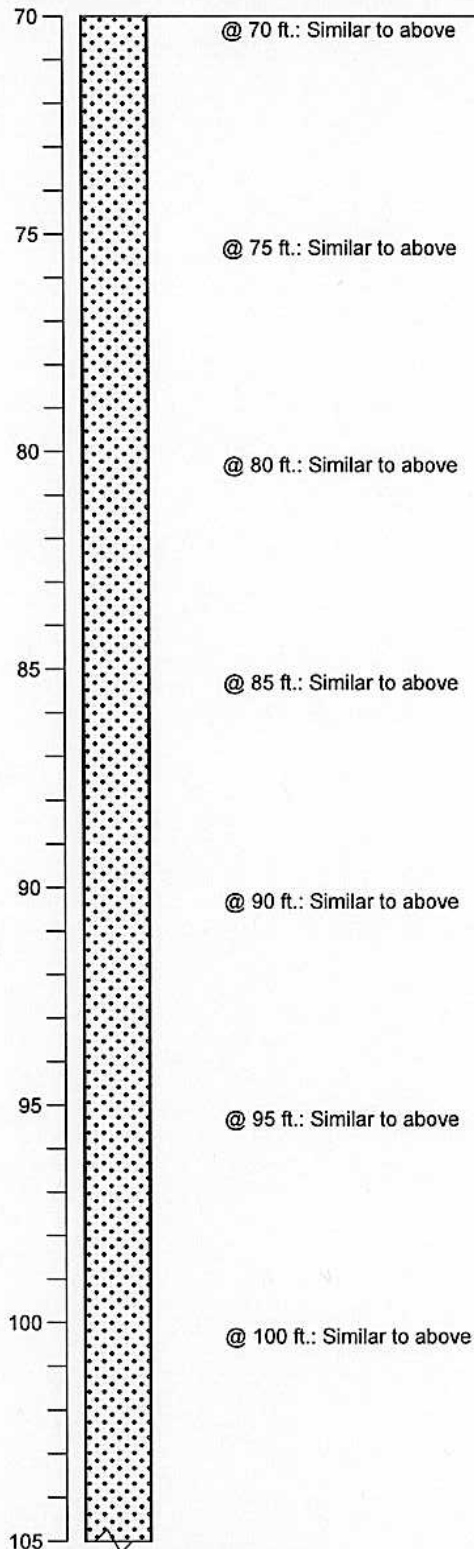
JOB NUMBER
 55596 001701

APPROVED

MBP/Can

DATE
 1/05

REVISED DATE

Completion Date 6/3/2003Drilling Method ARCH/mud rotaryLogged by J. NewmanSurface Elevation 180.96 ft. Hole Dia. 10 in.Northing 2137597.4 Easting 5747971.5Depth (ft.)
Sample5 in. DIAMETER
SLOTTED (0.020
in.) SCREEN: 57.5
to 89.5 ft.BENTONITE
PELLET SEAL: 93
to 97 ft.
10 ft. of blank
casing between
screens#3 SANDPACK: 97
to 135 ft.

BORING_WELL_OUCTP_OUCTPV6GPJ_FTO_OUCTP.GDT 1/17/05



MACTEC

Well Construction Details and
Log of Boring MW-BW-61-A
OUCTP

Fort Ord, California

DRAWN
MBPJOB NUMBER
55596 001701APPROVED
MDT/cmrDATE
1/05

REVISED DATE

A84

PLATE

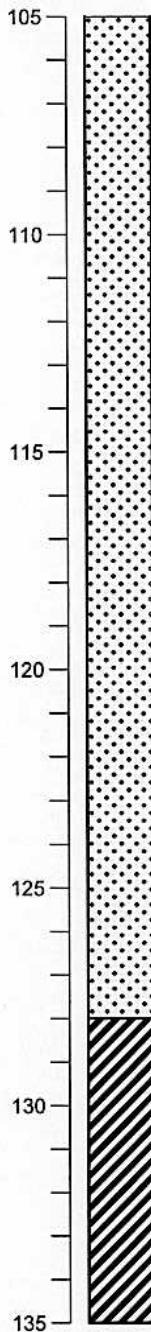
Completion Date 6/3/2003
 Drilling Method ARCH/mud rotary
 Logged by J. Newman
 Surface Elevation 180.96 ft. Hole Dia. 10 in.
 Northing 2137597.4 Easting 5747971.5

Depth (ft.)
 Sample

#3 SANDPACK: 97
 to 135 ft.
 5 in. DIAMETER
 SLOTTED (0.020
 in.) SCREEN: 99.5
 to 129.5 ft.

End cap to bottom
 of screen: 5 in.
 BOTTOM WELL
 CAP: 130 ft.

#3 SANDPACK:
 130 to 135 ft.



@ 105 ft.: Similar to above

@ 110 ft.: Change to OLIVE YELLOW (2.5Y
 6/6) Medium dense, wet

@ 115 ft.: Similar to above

@ 120 ft.: Similar to above

@ 125 ft.: Similar to above

OLIVE FAT CLAY (CH) (5Y 5/6) Medium
 dense, moist, 95% clay, 5% fine sand

Bottom of boring at 135 ft.

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/17/05



MACTEC

Well Construction Details and
 Log of Boring MW-BW-61-A
 OUCTP

Fort Ord, California

PLATE

A84

DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED
MOT/can

DATE
 1/05

REVISED DATE

Top of PVC Casing
Elev. 183.00 ft.
CHRISTY
BOX

GROUND SURFACE

5 in. DIAMETER
SCHEDULE 80
PVC BLANK
CASING: 0.5 to
130 ft.

10 in. DIAMETER
BOREHOLE: 0 to
134 ft.

BENTONITE-
CEMENT SEAL: 0
to 50
ft.redo
after Jim
straightens
screwups

Completion Date 5/28/2003

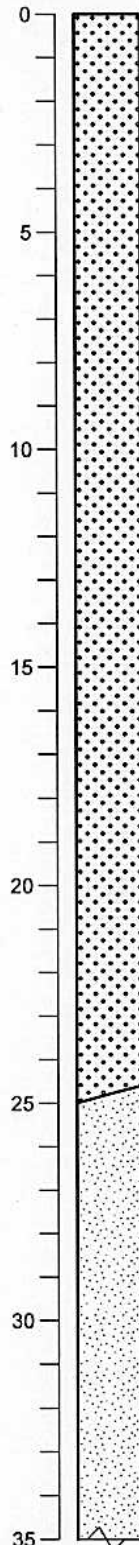
Drilling Method ARCH/mud rotary

Logged by J. Newman

Surface Elevation 183.12 ft. Hole Dia. 10 in.

Northing 2137725.5 Easting 5748172.1

Depth (ft.)
Sample



BROWN WELL GRADED SAND (SW)
(10YR 5/3) Loose, dry, 90% fine to medium
sand, 10% silt

@ 8 ft.: Change to YELLOW (2.5Y 7/6) 95%
fine to medium sand, 5% silt

@ 15 ft.: Change to OLIVE YELLOW (2.5Y
6/6) Medium dense, moist, 95% fine to
medium sand, 5% silt

@ 20 ft.: Change to LIGHT OLIVE BROWN
(2.5Y 5/6)

LIGHT OLIVE BROWN POORLY GRADED
SAND (SP) (2.5Y 5/6) Medium dense,
moist, 95% fine sand, 5% silt

@ 30 ft.: Similar to above

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/17/05



MACTEC

Well Construction Details and
Log of Boring MW-BW-62-A
OUCTP

Fort Ord, California

PLATE

A85

DRAWN
MBP

JOB NUMBER
55596 001701

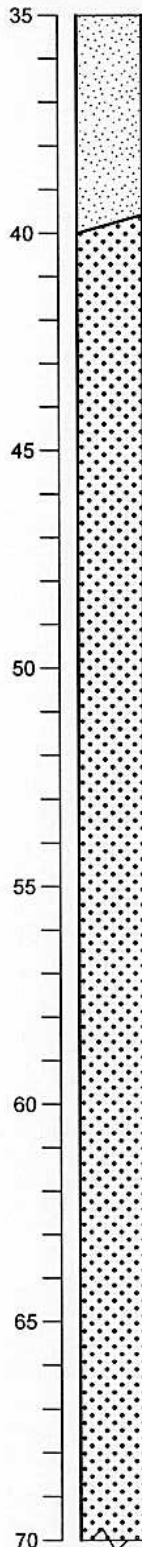
APPROVED
MDT / cm

DATE
1/05

REVISED DATE

Completion Date 5/28/2003
 Drilling Method ARCH/mud rotary
 Logged by J. Newman
 Surface Elevation 183.12 ft. Hole Dia. 10 in.
 Northing 2137725.5 Easting 5748172.1

Depth (ft.)
Sample



@ 35 ft.: Similar to above

LIGHT OLIVE BROWN WELL GRADED SAND (SW) (2.5Y 5/6) Medium dense, moist, 95% fine to medium sand, 5% silt

@ 45 ft.: Similar to above

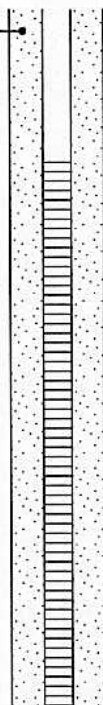
@ 50 ft.: Change to YELLOWISH BROWN (10YR 5/6)

@ 55 ft.: Similar to above

@ 60 ft.: Similar to above

@ 65 ft.: Similar to above

#3 SANDPACK: 54 to 93 ft.



Well Construction Details and
Log of Boring MW-BW-62-A
OUCTP

PLATE



MACTEC

Fort Ord, California

A85

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED
MDT / cm

DATE
1/05

REVISED DATE

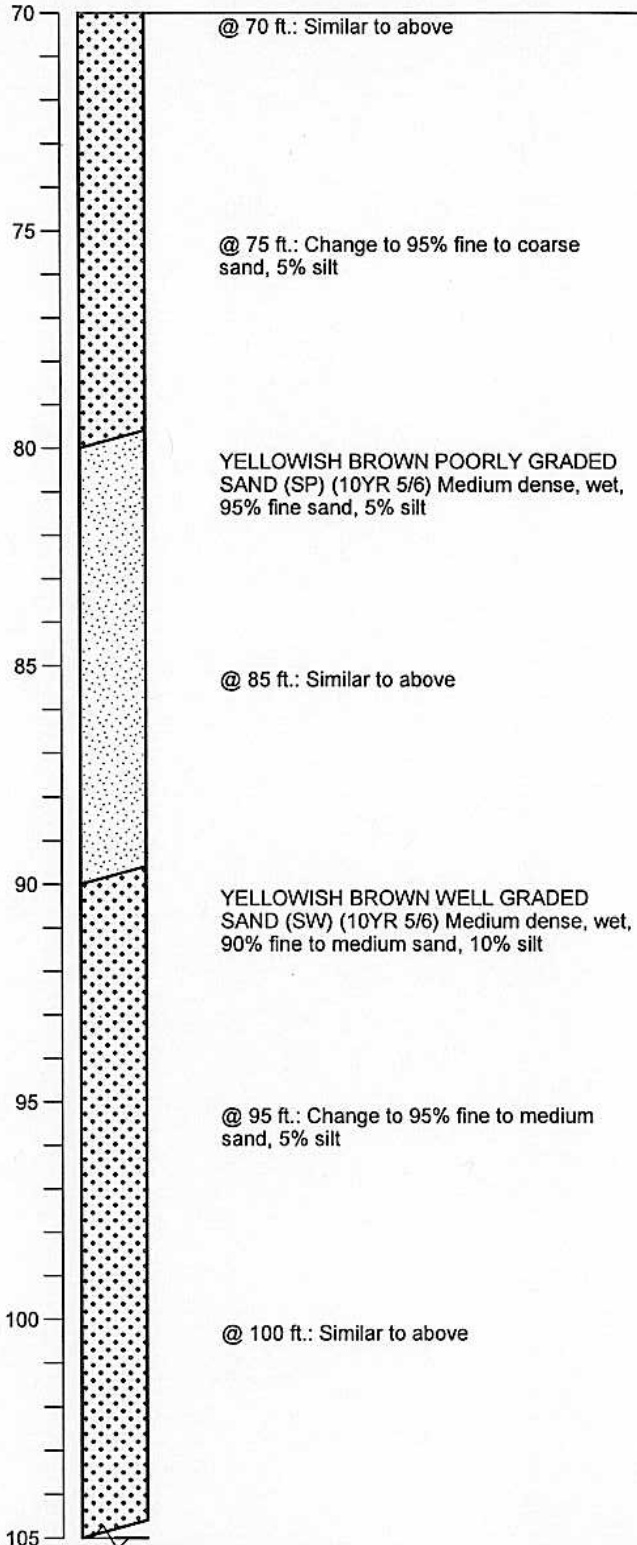
Completion Date 5/28/2003
 Drilling Method ARCH/mud rotary
 Logged by J. Newman
 Surface Elevation 183.12 ft. Hole Dia. 10 in.
 Northing 2137725.5 Easting 5748172.1

Depth (ft.)
 Sample

5 in. DIAMETER
 SLOTTED (0.020
 in.) SCREEN: 57.5
 to 89.5 ft.

BENTONITE
 PELLET SEAL: 93
 to 97 ft.
 10 ft. of blank
 casing between
 screens

#3 SANDPACK: 97
 to 135 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/17/05



MACTEC

Well Construction Details and
 Log of Boring MW-BW-62-A
 OUCTP

PLATE

Fort Ord, California

A85

DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED
MDT / cm

DATE
 1/05

REVISED DATE

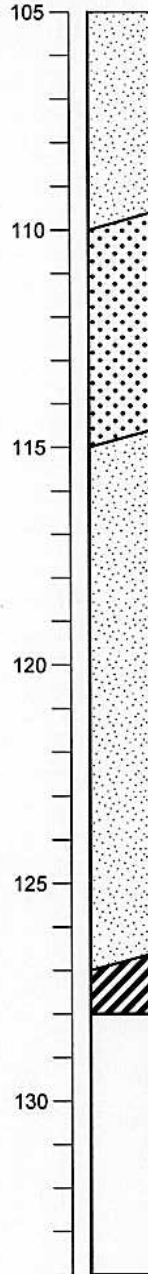
Completion Date 5/28/2003
 Drilling Method ARCH/mud rotary
 Logged by J. Newman
 Surface Elevation 183.12 ft. Hole Dia. 10 in.
 Northing 2137725.5 Easting 5748172.1

Depth (ft.)
 Sample

#3 SANDPACK: 97
 to 135 ft.
 5 in. DIAMETER
 SLOTTED (0.020
 in.) SCREEN: 89.5
 to 129.5 ft.

End cap to bottom
 of screen: 5 in.
 BOTTOM WELL
 CAP: 130 ft.

#3 SANDPACK:
 130 to 135 ft.



YELLOWISH BROWN POORLY GRADED
 SAND (SP) (10YR 5/6) Medium dense, wet,
 95% fine sand, 5% silt

YELLOWISH BROWN WELL SAND (SW)
 (10YR 5/6) Medium dense, wet, 95% fine to
 medium sand, 5% silt

YELLOWISH BROWN POORLY GRADED
 SAND (SP) (10YR 5/6) Medium dense, wet,
 95% fine sand, 5% silt

@ 120 ft.: Change to YELLOWISH BROWN
 (10YR 5/4) 90% fine sand, 10% silt

@ 125 ft.: Change to 95% fine sand, 5% silt

OLIVE FAT CLAY (CH) (5Y 5/6) Dense,
 moist, 95% clay, 5% fine sand

Bottom of boring at 134 ft. redrilling
 necessary after difficulty installing well

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 1/17/05



MACTEC

Well Construction Details and
 Log of Boring MW-BW-62-A
 OUCTP

Fort Ord, California

PLATE

A85

DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED
 MDT / can

DATE
 1/05

REVISED DATE

Top of PVC Casing
Elev. 184.49 ft.
CHRISTY
BOX

GROUND SURFACE

5 in. DIAMETER
SCHEDULE 80
PVC BLANK
CASING: 0.5 to
128 ft.

10 in. DIAMETER
BOREHOLE: 0 to
135 ft.

BENTONITE-
CEMENT SEAL: 0
to 47 ft.

Completion Date 6/3/2003

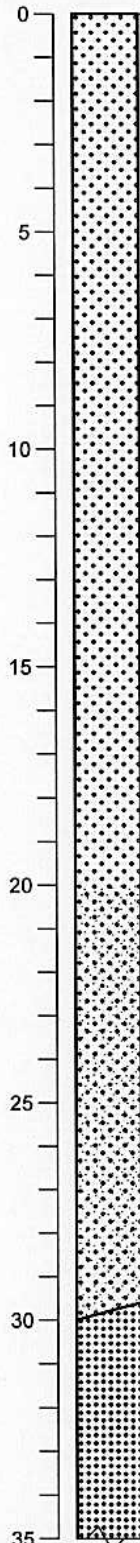
Drilling Method ARCH/mud rotary

Logged by J. Newman

Surface Elevation 184.53 ft. Hole Dia. 10 in.

Northing 2137841.4 Easting 5748312.9

Depth (ft.)
Sample



STRONG BROWN WELL GRADED SAND
(SW) (7.5YR 4/6) Loose, dry, 80% fine to
coarse sand, 20% silt

@ 4 ft.: Change to DARK YELLOWISH
BROWN (10YR 4/6) 90% fine to medium
sand, 10% silt

@ 7 ft.: Change to LIGHT OLIVE BROWN
(2.5Y 5/4) 95% fine to medium sand, 5% silt

@ 12 ft.: Change to OLIVE YELLOW (2.5Y
6/6)

@ 17 ft.: Similar to above

OLIVE YELLOW POORLY GRADED SAND
(SP) (2.5Y 6/6) Loose, dry, 90% medium
fine sand, 5% other sand, 5% silt

@ 25 ft.: Similar to above

OLIVE YELLOW WELL GRADED SAND
(SW) (2.5Y 6/6) Loose, dry, 95% fine to
medium sand, 5% silt

BORING_WELL_OUCTP_OUCTPV6.GPJ_FTO_OUCTP.GDT_11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-63-A
OUCTP

PLATE

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED

MDT / cm

DATE
11/04

REVISED DATE

A86

Completion Date 6/3/2003

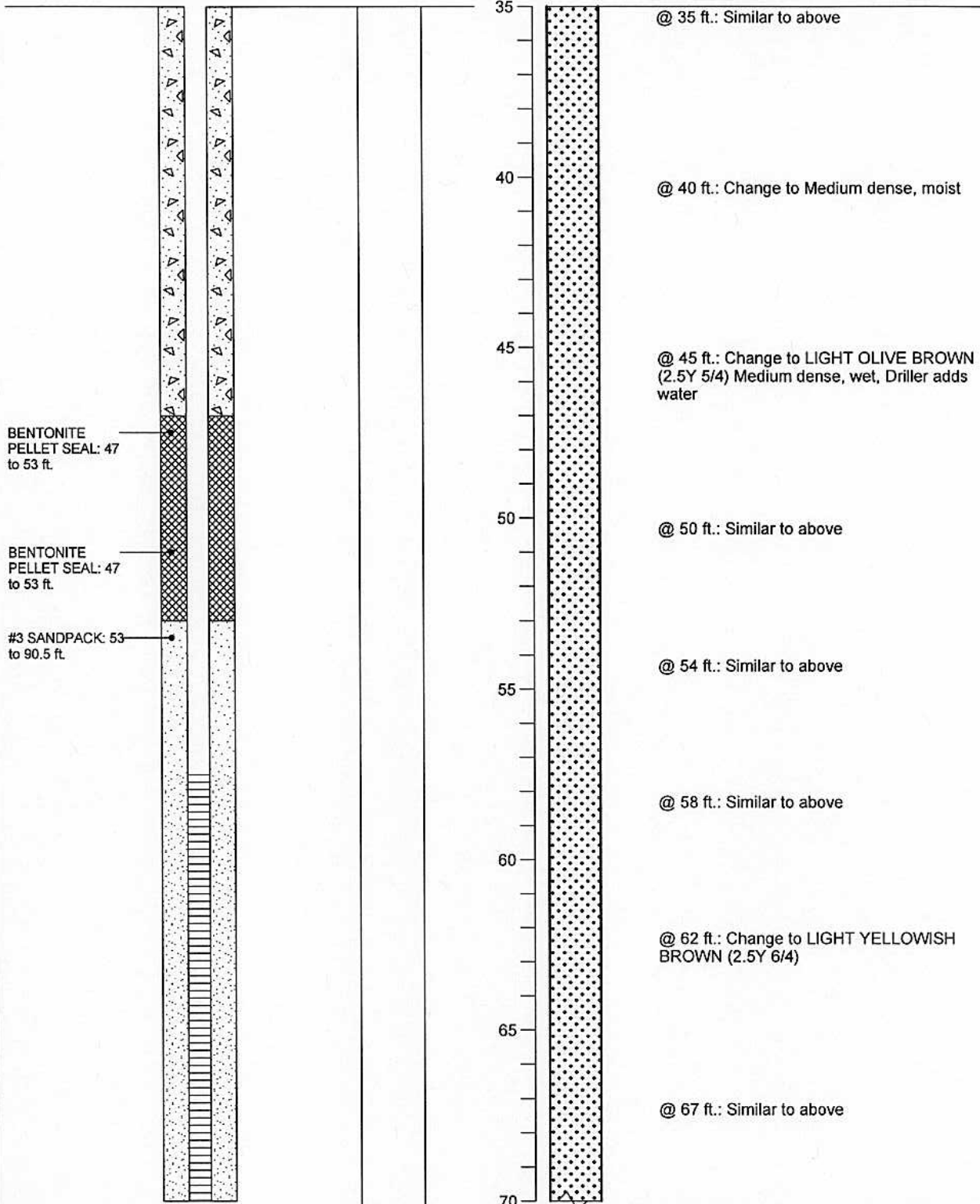
Drilling Method ARCH/mud rotary

Logged by J. Newman

Surface Elevation 184.53 ft. Hole Dia. 10 in.

Northing 2137841.4 Easting 5748312.9

Depth (ft.)
Sample



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

**Well Construction Details and
Log of Boring MW-BW-63-A**

PLATE

OUCTP

Fort Ord, California

A86



MACTEC

DRAWN
MBP

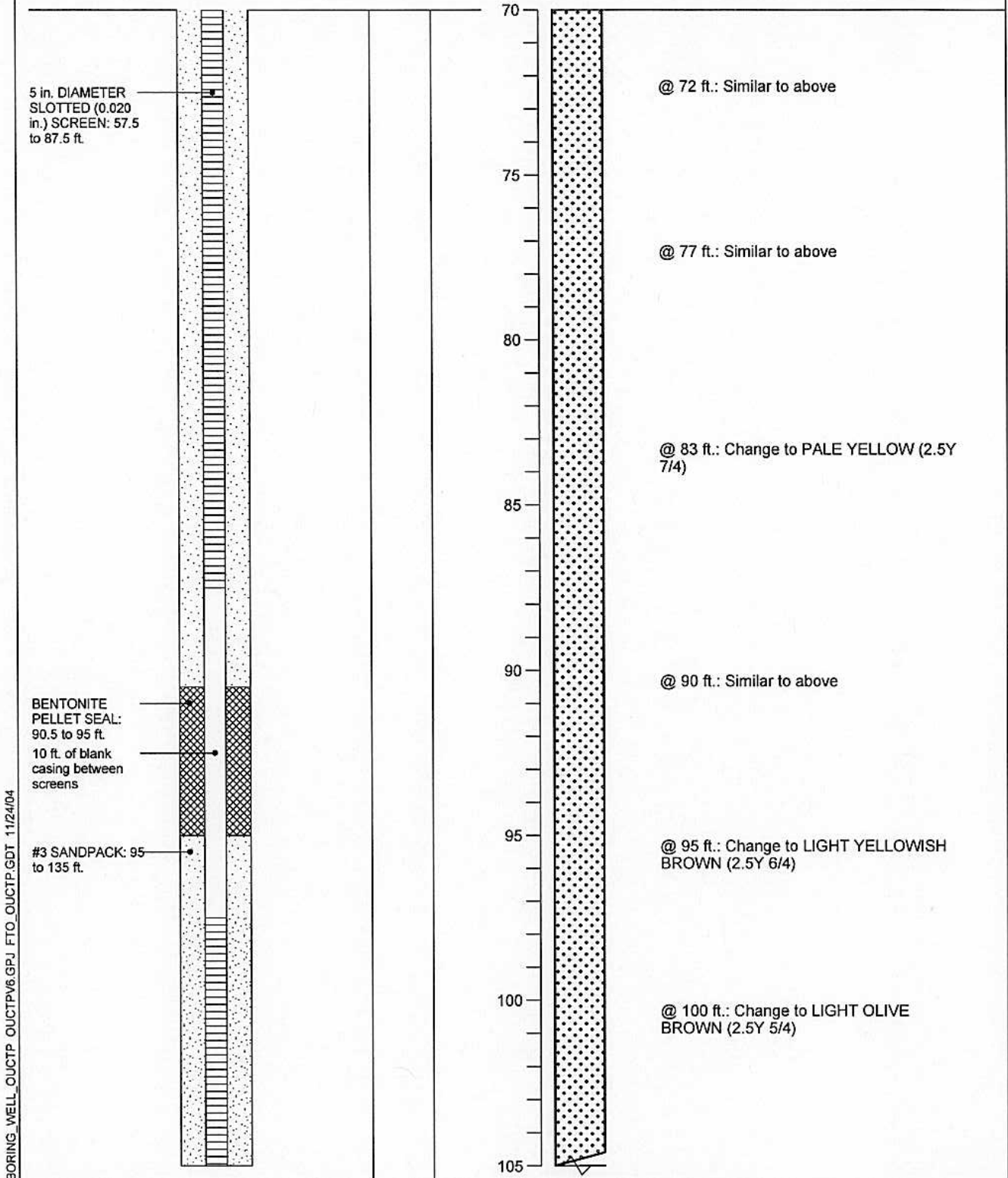
JOB NUMBER
55596 001701

APPROVED
MDT/cmr

DATE
11/04

REVISED DATE

Completion Date 6/3/2003
 Drilling Method ARCH/mud rotary
 Logged by J. Newman
 Surface Elevation 184.53 ft. Hole Dia. 10 in.
 Northing 2137841.4 Easting 5748312.9



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-63-A
 OUCTP

PLATE

A86

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT/can</i>	11/04	

Completion Date 6/3/2003

Drilling Method ARCH/mud rotary

Logged by J. Newman

Surface Elevation 184.53 ft. Hole Dia. 10 in.

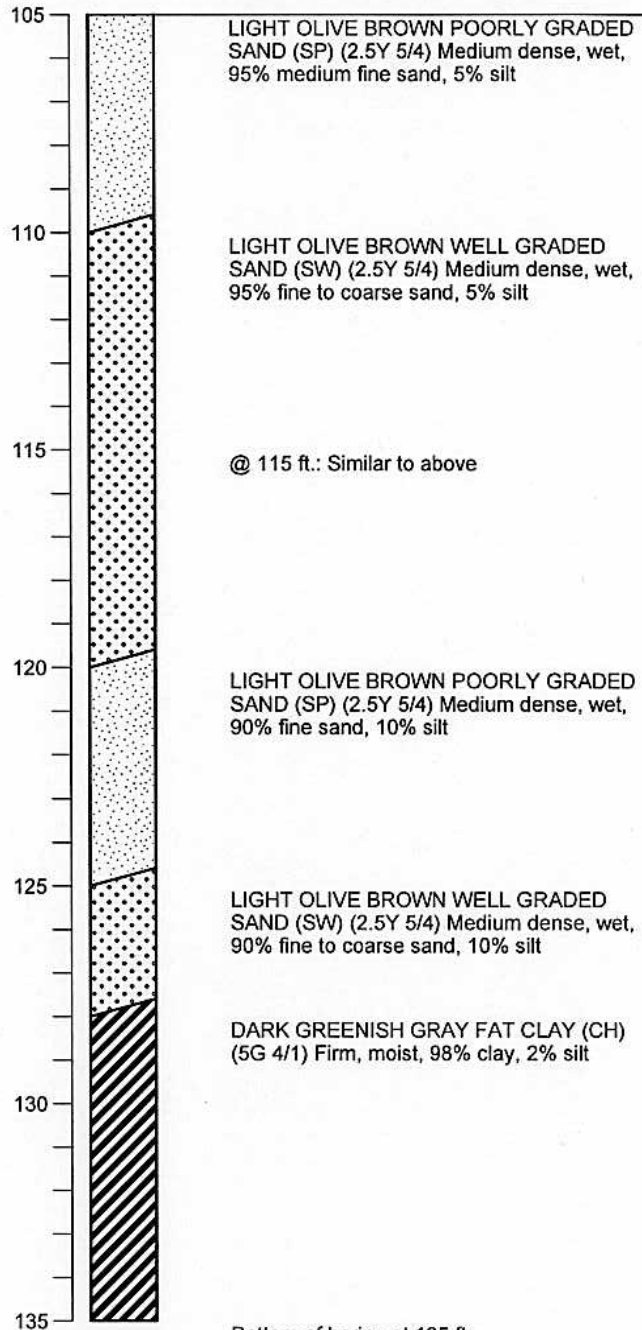
Northing 2137841.4 Easting 5748312.9

Depth (ft.)
Sample

#3 SANDPACK: 95
to 135 ft.
5 in. DIAMETER
SLOTTED (0.020
in.) SCREEN: 97.5
to 127.5 ft.

End cap to bottom
of screen: 5 in.
BOTTOM WELL
CAP: 128 ft.

#3 SANDPACK:
128 to 135 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-63-A
OUCTP

PLATE

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED

MDT / cm

DATE
11/04

REVISED DATE

A86

Top of PVC Casing
Elev. 177.26 ft.
CHRISTY
BOX

GROUND SURFACE

5 in. DIAMETER
SCHEDULE 80
PVC BLANK
CASING: 0.5 to
128 ft.

10 in. DIAMETER
BOREHOLE: 0 to
134 ft.

BENTONITE-
CEMENT SEAL: 0
to 47 ft.

Completion Date 6/4/2003

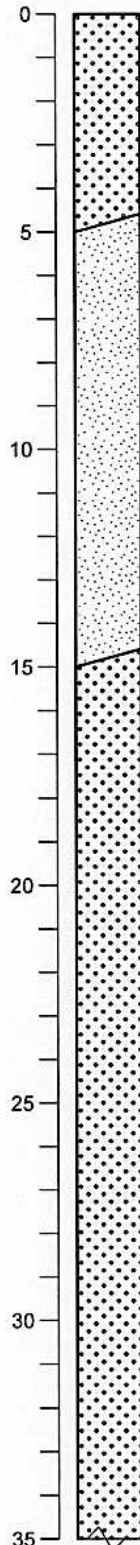
Drilling Method ARCH/mud rotary

Logged by J. Newman

Surface Elevation 177.43 ft. Hole Dia. 10 in.

Northing 2138018 Easting 5748548.7

Depth (ft.)
Sample



YELLOWISH BROWN WELL GRADED
SAND (SW) (10YR 5/8) Loose, dry, 88%
fine to coarse sand, 10% silt, 2% gravel
@ 2 ft.: Change to DARK YELLOWISH
BROWN (10YR 4/6) 90% fine to medium
sand, 10% silt, Trace organics
@ 3 ft.: Change to DARK BROWN (10YR
3/3) Loose, barely moist, 95% fine to
medium sand, 5% silt
BROWNISH YELLOW POORLY GRADED
SAND (SP) (10yr 6/8) Loose, moist, 95%
fine sand, 5% silt

@ 10 ft.: Similar to above

@ 12 ft.: Similar to above

LIGHT OLIVE BROWN WELL GRADED
SAND (SW) (2.5Y 5/6) Loose, moist, 95%
fine to coarse sand, 5% silt

@ 20 ft.: Similar to above

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above

BORING WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-64-A
OUCTP

PLATE

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

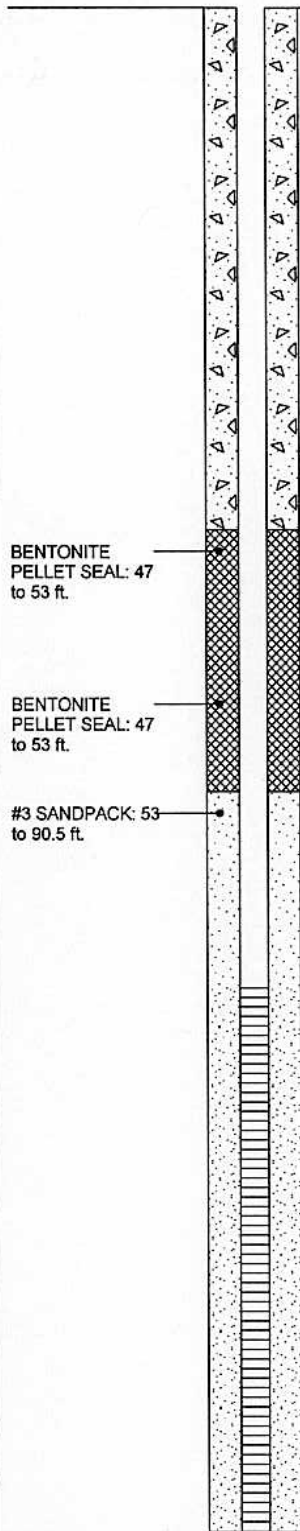
APPROVED
MDT/cmr

DATE
11/04

A87
REVISED DATE

Completion Date 6/4/2003
 Drilling Method ARCH/mud rotary
 Logged by J. Newman
 Surface Elevation 177.43 ft. Hole Dia. 10 in.
 Northing 2138018 Easting 5748548.7

Depth (ft.)
Sample



35
40
45
50
55
60
65
70

@ 35 ft.: Change to Medium dense, moist, 95% fine to medium sand, 5% silt

@ 40 ft.: Change to YELLOWISH BROWN (10YR 5/6) 95% fine to coarse sand, 5% silt

@ 43 ft.: Driller adds water

@ 45 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/6) Medium dense, wet, 95% fine to medium sand, 5% silt

@ 55 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/4) 95% fine to coarse sand, 5% silt

@ 60 ft.: Similar to above

@ 65 ft.: Change to PALE YELLOW (2.5Y 7/4) 93% fine to coarse sand, 5% silt, 2% fat clay

BORING WELL_OUCTP OUCTPV8.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring MW-BW-64-A
OUCTP

PLATE

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED
MDT/cmr

DATE
11/04

A87
REVISED DATE

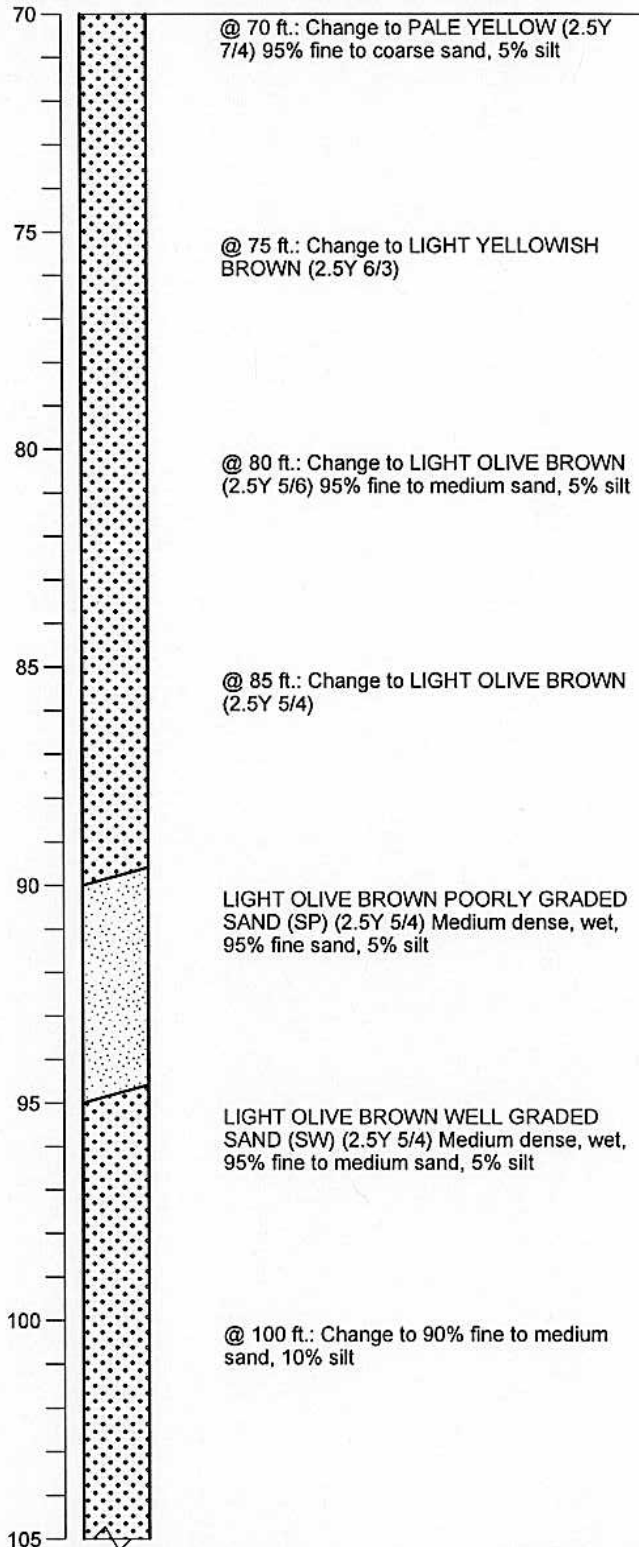
Completion Date 6/4/2003
 Drilling Method ARCH/mud rotary
 Logged by J. Newman
 Surface Elevation 177.43 ft. Hole Dia. 10 in.
 Northing 2138018 Easting 5748548.7

Depth (ft.)
 Sample

5 in. DIAMETER
 SLOTTED (0.020
 in.) SCREEN: 57.5
 to 87.5 ft.

BENTONITE
 PELLET SEAL:
 90.5 to 95 ft.
 10 ft. of blank
 casing between
 screens

#3 SANDPACK: 95
 to 134 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-64-A
 OUCTP

PLATE

Fort Ord, California

DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED
 MDT / car

DATE
 11/04

A87
 REVISED DATE

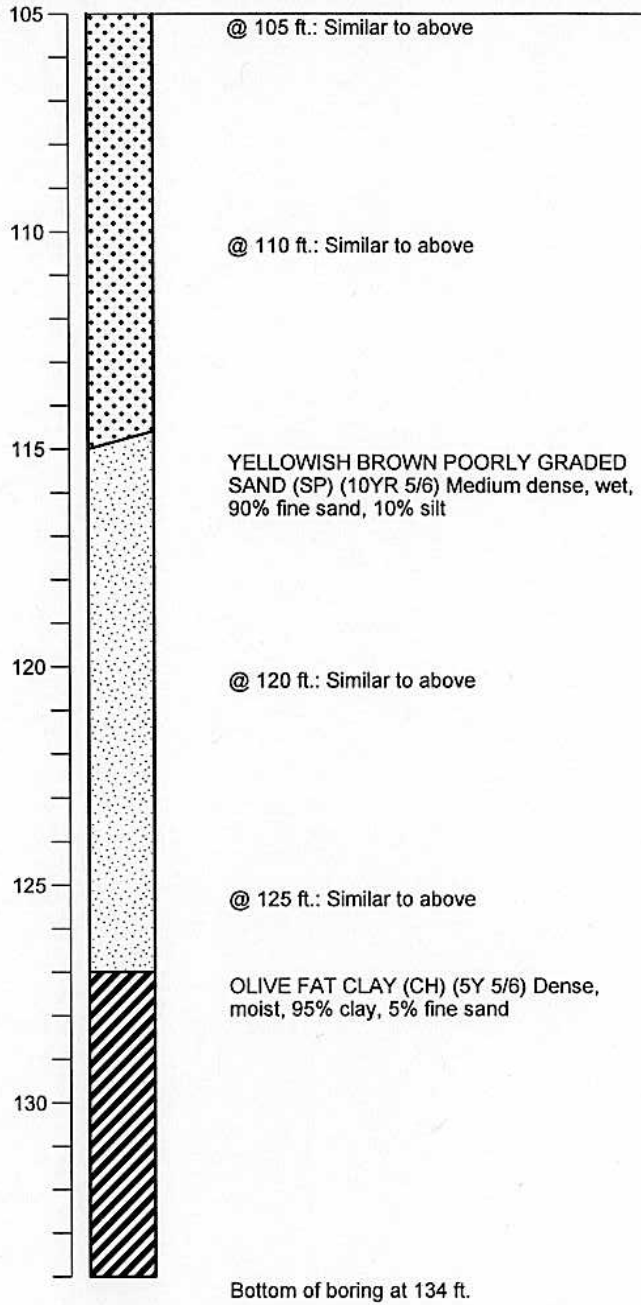
Completion Date 6/4/2003
 Drilling Method ARCH/mud rotary
 Logged by J. Newman
 Surface Elevation 177.43 ft. Hole Dia. 10 in.
 Northing 2138018 Easting 5748548.7

Depth (ft.)
 Sample

#3 SANDPACK: 95
 to 134 ft.
 5 in. DIAMETER
 SLOTTED (0.020
 in.) SCREEN: 97.5
 to 127.5 ft.

End cap to bottom
 of screen: 5 in.
 BOTTOM WELL
 CAP: 128 ft.

#3 SANDPACK:
 128 to 134 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-64-A
 OUCTP

PLATE

Fort Ord, California

DRAWN
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JOB NUMBER
 55596 001701

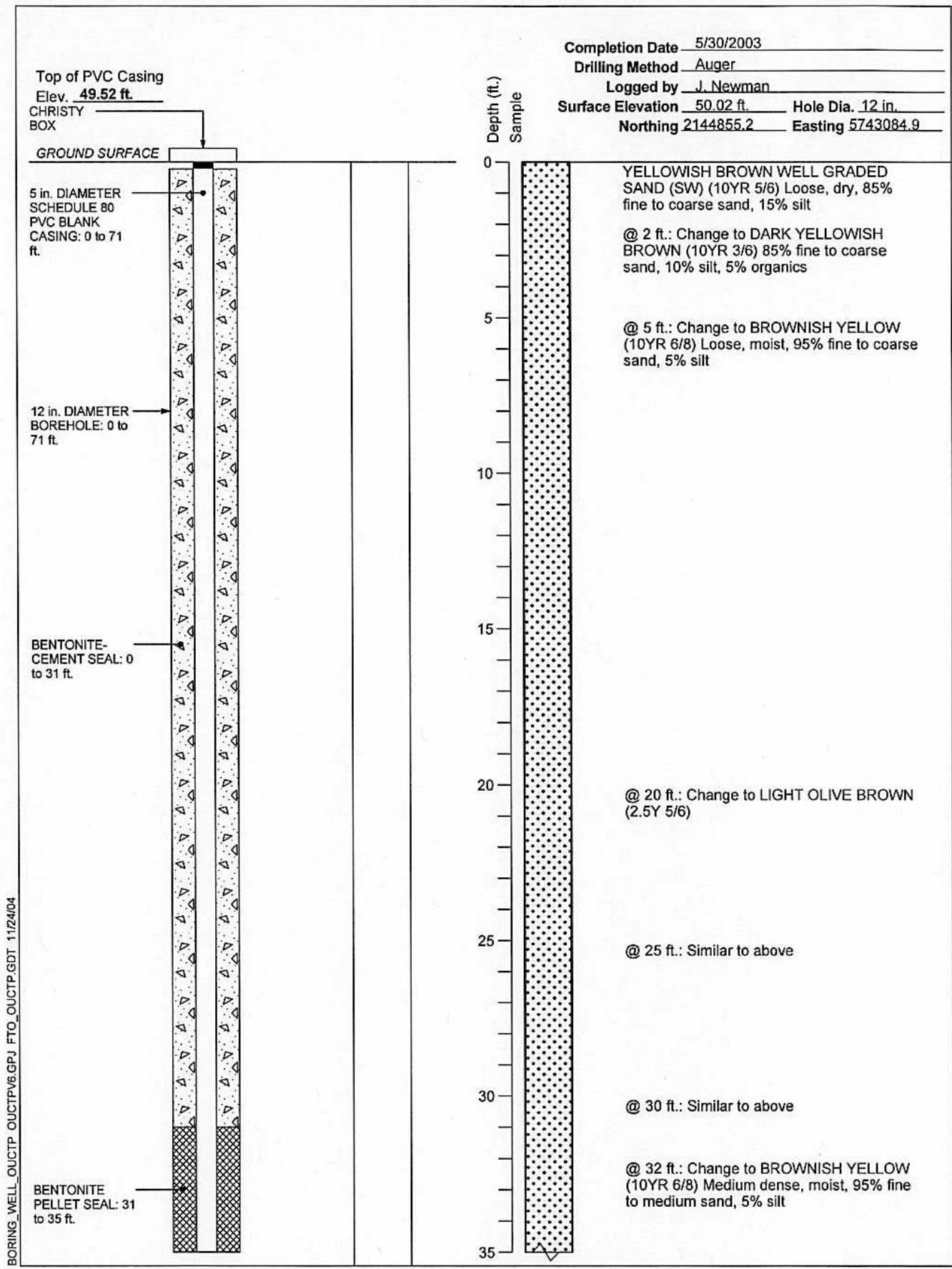
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DATE
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REVISED DATE

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BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



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JOB NUMBER
55596 001701

Well Construction Details and
Log of Boring MW-BW-65-A
OUCTP

Fort Ord, California

APPROVED
MST/cwr

DATE
11/04

A88

REVISED DATE

Completion Date 5/30/2003
 Drilling Method Auger
 Logged by J. Newman
 Surface Elevation 50.02 ft. Hole Dia. 12 in.
 Northing 2144855.2 Easting 5743084.9

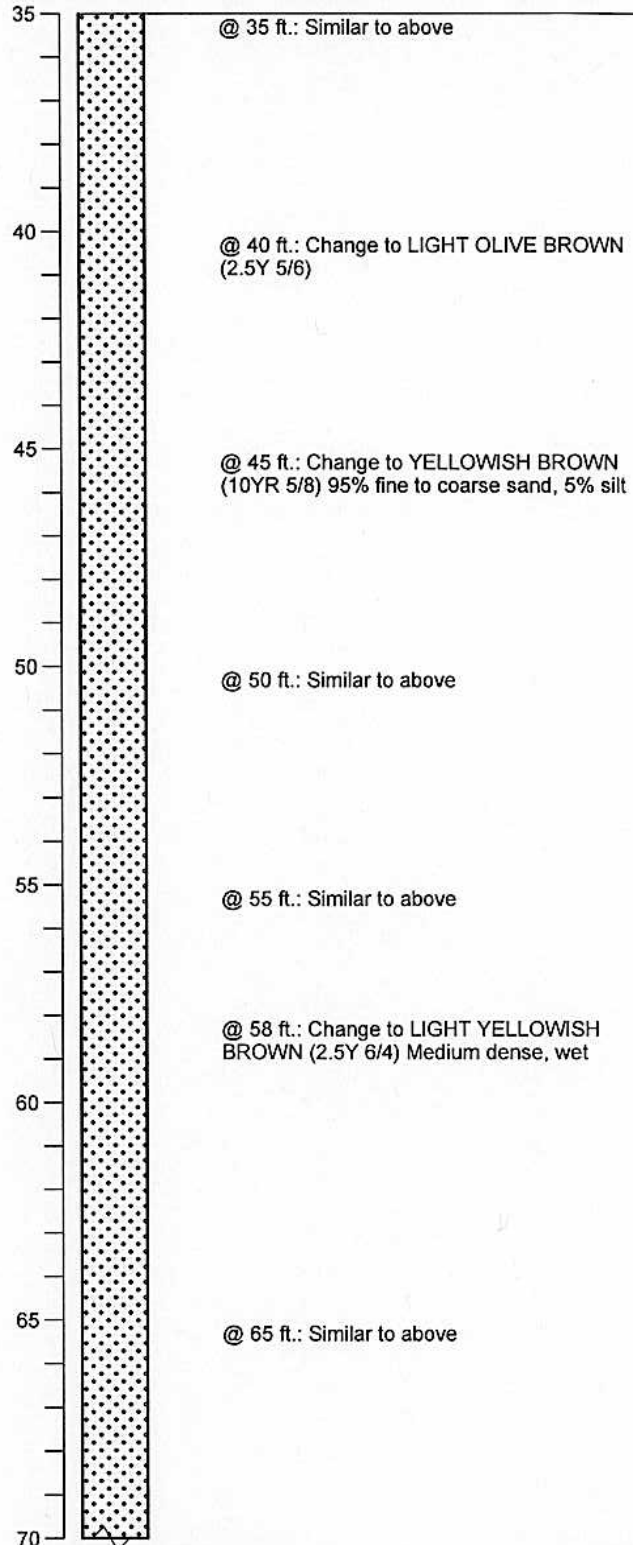
Depth (ft.)
 Sample

#3 SANDPACK: 35
 to 71 ft.

5 in. DIAMETER
 SLOTTED (0.020
 in.) SCREEN: 40.5
 to 70.5 ft.

#3 SANDPACK: 35
 to 71 ft.

5 in. DIAMETER
 SLOTTED (0.020
 in.) SCREEN: 40.5
 to 70.5 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-65-A
 OUCTP

PLATE

Fort Ord, California

DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED
 MDT / JCN

DATE
 11/04

A88
 REVISED DATE

Completion Date 5/30/2003
 Drilling Method Auger
 Logged by J. Newman
 Surface Elevation 50.02 ft. Hole Dia. 12 in.
 Northing 2144855.2 Easting 5743084.9

Depth (ft.)
 Sample

End cap to bottom
 of screen: 5 in.
 BOTTOM WELL
 CAP: 71 ft.
 Hole cleaned out to
 71 ft.

70



OLIVE FAT CLAY (CH) (5Y 5/4) Firm,
 moist, 95% fat clay, 5% fine sand
 Bottom of boring at 71 ft.

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-65-A
 OUCTP

PLATE

Fort Ord, California

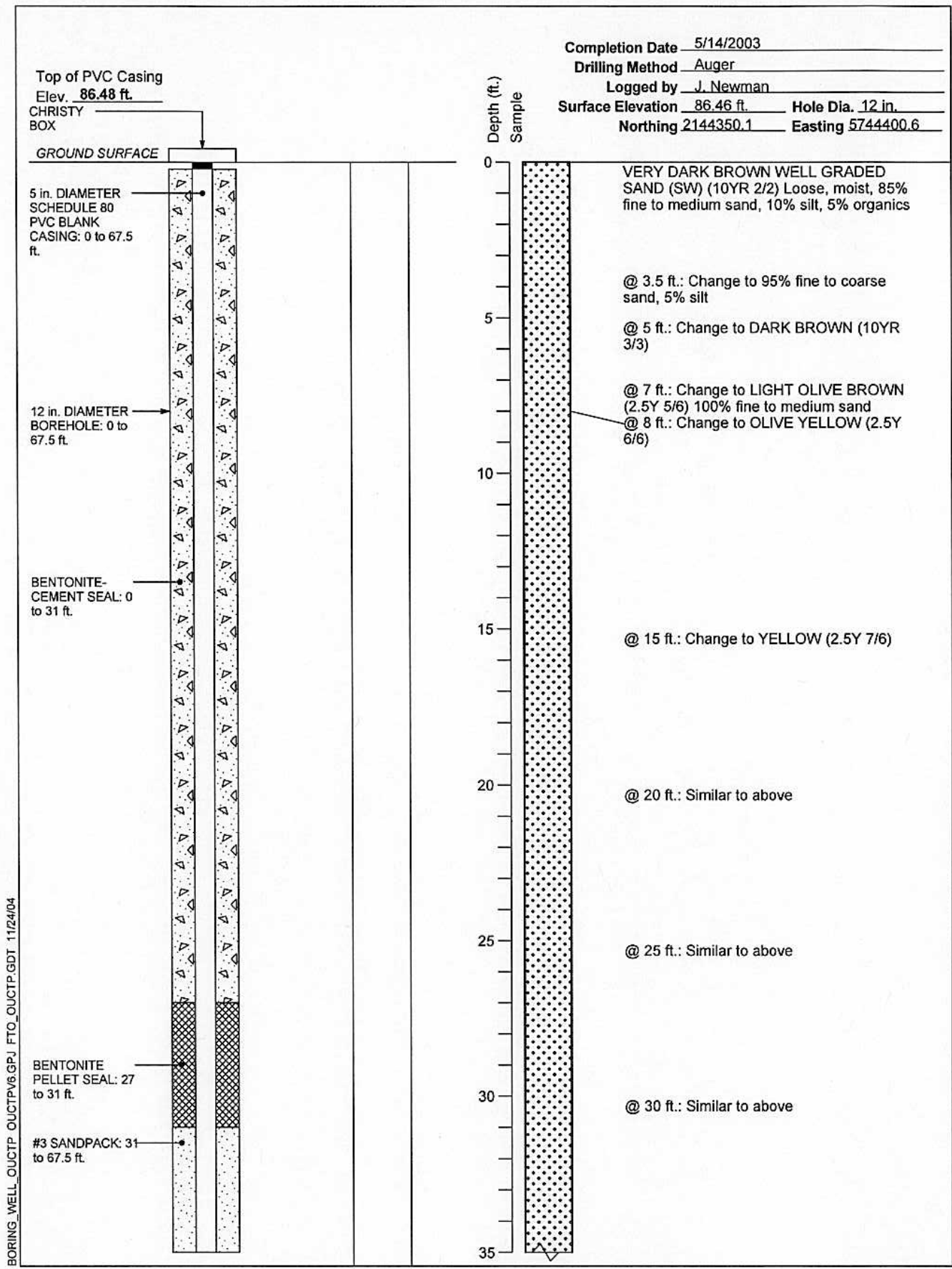
DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED
NOT / cm

DATE
 11/04

A88
 REVISED DATE



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DRAWN
MBP

JOB NUMBER
55596 001701

Fort Ord, California

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NOT / can

DATE
11/04

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Well Construction Details and
Log of Boring MW-BW-66-A
OUCTP

PLATE

A89

Completion Date 5/14/2003
 Drilling Method Auger
 Logged by J. Newman
 Surface Elevation 86.46 ft. Hole Dia. 12 in.
 Northing 2144350.1 Easting 5744400.6

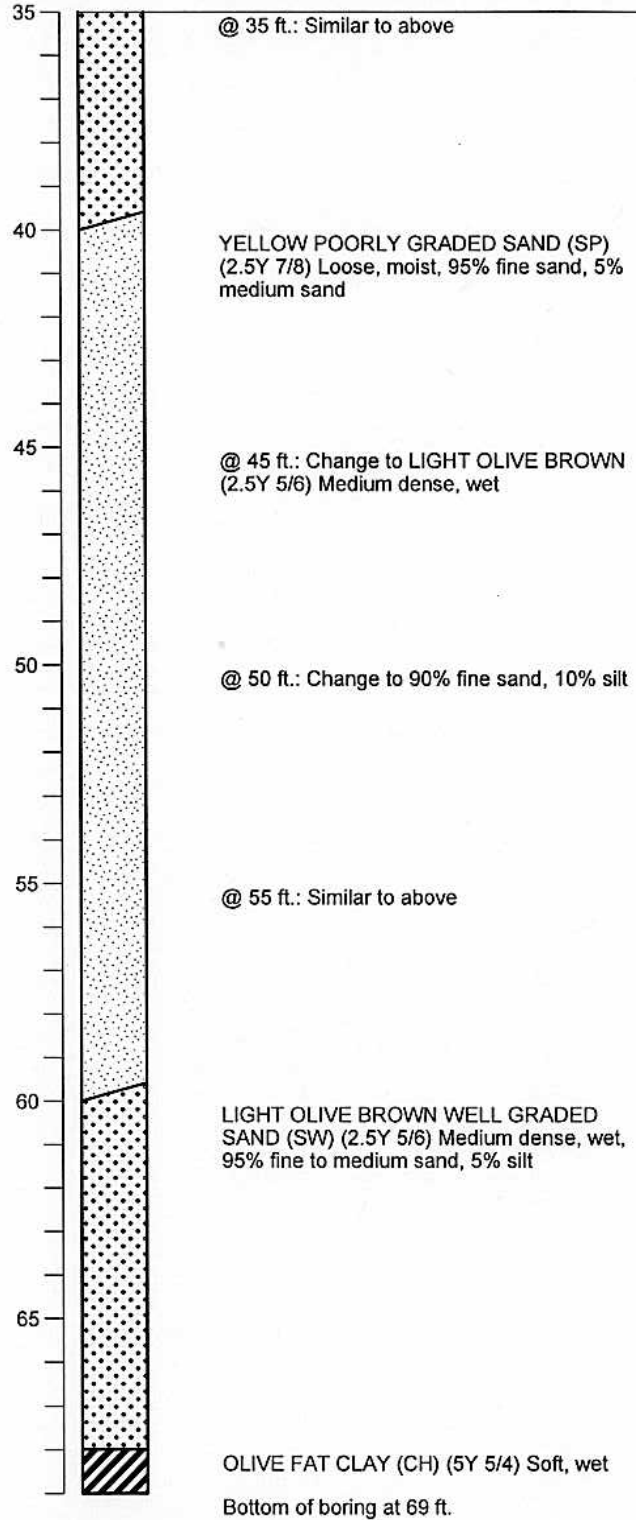
Depth (ft.)
 Sample

5 in. DIAMETER
 SLOTTED (0.020
 in.) SCREEN: 37
 to 67 ft.

5 in. DIAMETER
 SLOTTED (0.020
 in.) SCREEN: 37
 to 67 ft.

#3 SANDPACK: 31
 to 67.5 ft.

End cap to bottom
 of screen: 5 in.
 BOTTOM WELL
 CAP: 67.5 ft.
 Hole cleaned out to
 67.5 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
 Log of Boring MW-BW-66-A
 OUCTP

PLATE

Fort Ord, California

DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED

MDT / cur

DATE
 11/04

REVISED DATE

A89

BORING_WELL_OUCTP_OUCTPV6.GPJ_FTO_OUCTP.GDT 1/27/05

Top of PVC Casing
Elev. 111.16 ft.
CHRISTY
BOX

GROUND SURFACE

5 in. DIAMETER
SCHEDULE 80
PVC BLANK
CASING: +2 to 88
ft.

12 in. DIAMETER
BOREHOLE: 0 to
88 ft.

BENTONITE-
CEMENT SEAL: 0
to 53 ft.

Completion Date 5/15/2003

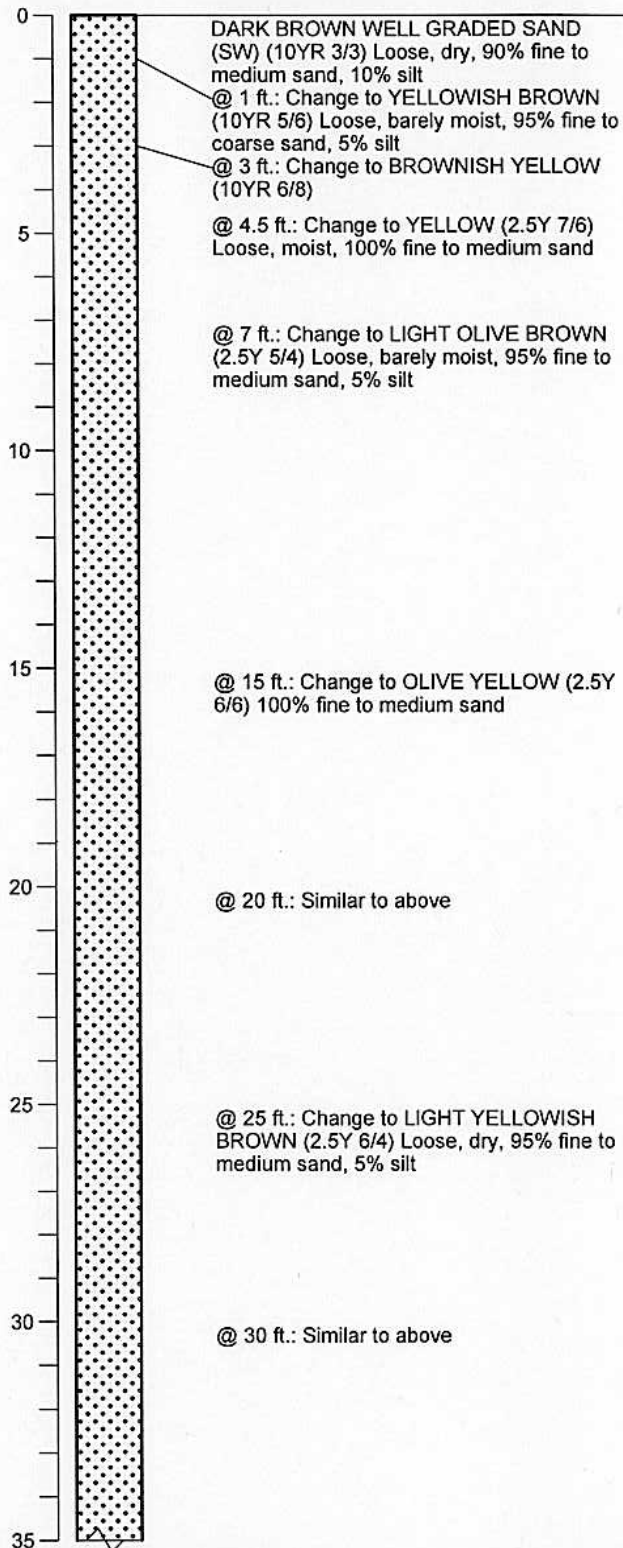
Drilling Method Auger

Logged by J. Newman

Surface Elevation 109.01 ft. Hole Dia. 12 in.

Northing 2144537.8 Easting 5744654.1

Depth (ft.)
Sample



Well Construction Details and
Log of Boring MW-BW-67-A
OUCTP

PLATE



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Fort Ord, California

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MBP

JOB NUMBER
55596 001701

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not/cmr

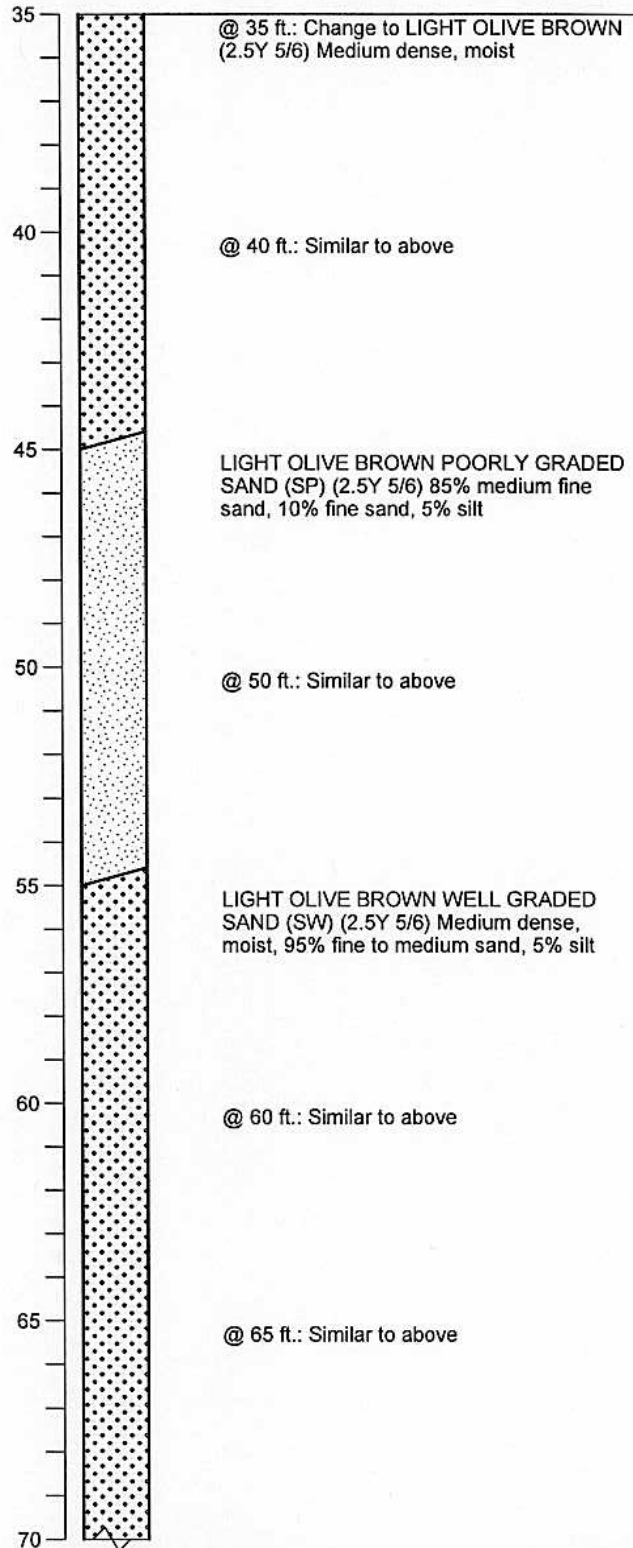
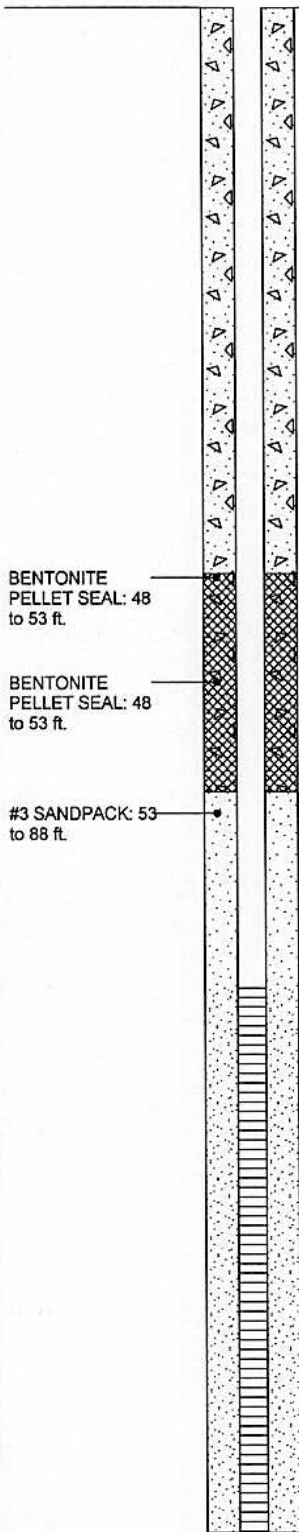
DATE
1/05

REVISED DATE

A90

Completion Date 5/15/2003
 Drilling Method Auger
 Logged by J. Newman
 Surface Elevation 109.01 ft. Hole Dia. 12 in.
 Northing 2144537.8 Easting 5744654.1

Depth (ft.)
 Sample



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05

Well Construction Details and
 Log of Boring MW-BW-67-A
 OUCTP

PLATE



MACTEC

Fort Ord, California

A90

DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED
MDT / Can

DATE
 1/05

REVISED DATE

Completion Date 5/15/2003

Drilling Method Auger

Logged by J. Newman

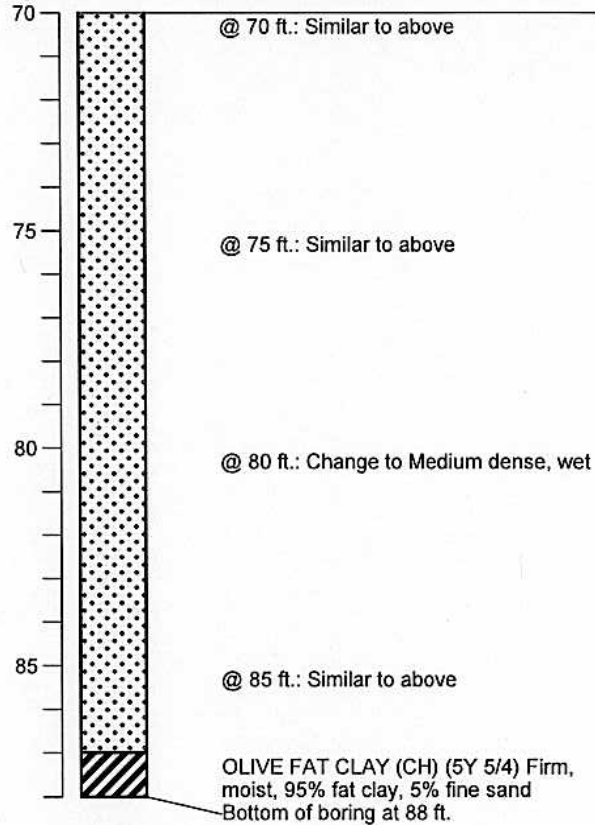
Surface Elevation 109.01 ft. Hole Dia. 12 in.

Northing 2144537.8 Easting 5744654.1

Depth (ft.)
Sample

5 in. DIAMETER
SLOTTED (0.020
in.) SCREEN: 57.5
to 87.5 ft.

End cap to bottom
of screen: 5 in.
BOTTOM WELL
CAP: 88 ft.
Hole cleaned out to
88 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



MACTEC

Well Construction Details and
Log of Boring MW-BW-67-A
OUCTP

PLATE

Fort Ord, California

A90

DRAWN
MBP

JOB NUMBER
55596 001701

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1/05

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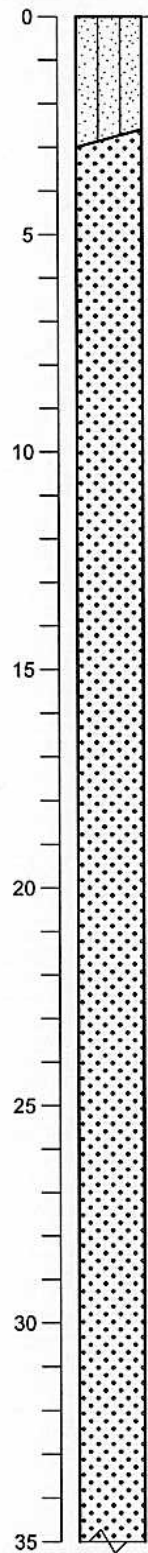
BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05

Top of PVC Casing
Elev. 191.91 ft.
CHRISTY
BOX

GROUND SURFACE
10 in. DIA.
BOREHOLE: 0 to
145 ft.
4 in. DIA. SCHED.
40 PVC CASING:
0 to 113 ft.

Completion Date 8/9/2004
Drilling Method Auger
Logged by D. Browne
Surface Elevation 192.05 Hole Dia. 10 in.
Northing 2138141.6 Easting 5748085.6

Depth (ft.)
Sample



DARK YELLOWISH BROWN SILTY SAND
(SM) (10YR 3/6)

LIGHT YELLOWISH BROWN WELL
GRADED SAND (SW) (10YR 6/4) Loose,
dry, 80% fine to coarse sand, 20% silt

@ 12 ft.: 95% fine to coarse sand, 5% silt

@ 32 ft.: 90% fine to coarse sand, 10% silt



MACTEC

Well Construction Details and
Log of Boring MW-BW-71-A
OUCTP

PLATE

A91

Fort Ord, California

DRAWN
CN

JOB NUMBER
55596 001701

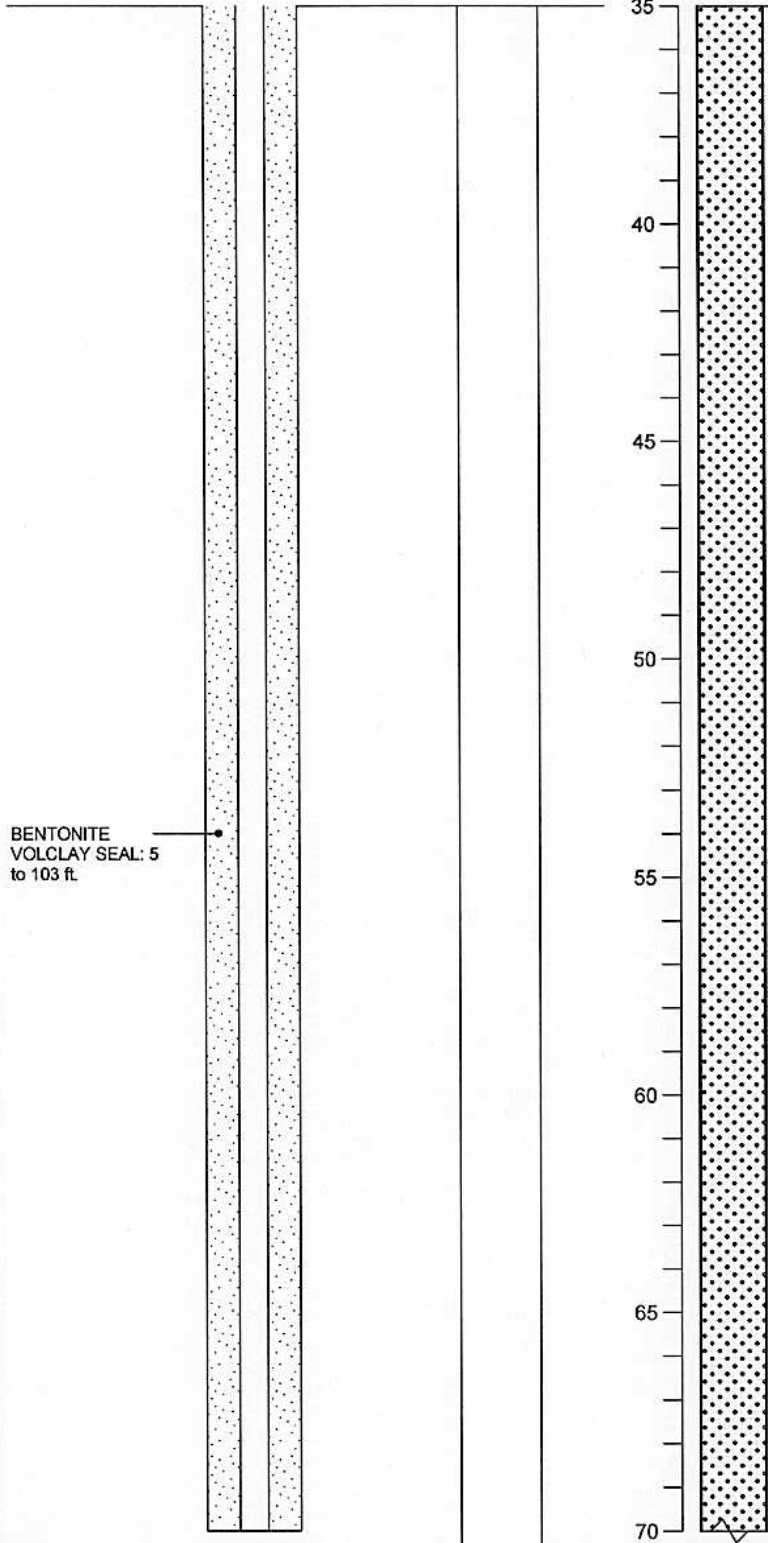
APPROVED
MDT/can

DATE
1/05

REVISED DATE

Completion Date 8/9/2004
 Drilling Method Auger
 Logged by D. Browne
 Surface Elevation 192.05 Hole Dia. 10 in.
 Northing 2138141.6 Easting 5748085.6

Depth (ft.)
Sample



BORING WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05

Well Construction Details and
Log of Boring MW-BW-71-A
OUCTP

PLATE

A91



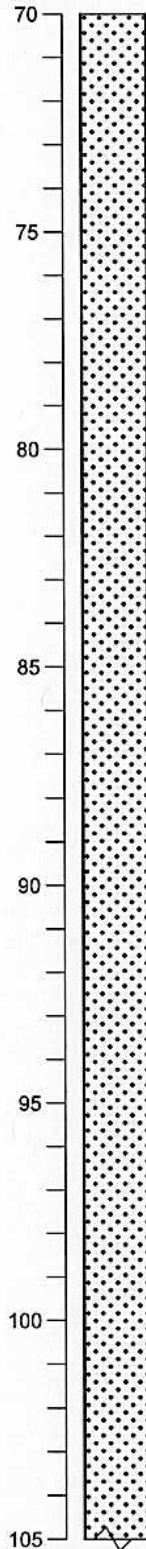
MACTEC

Fort Ord, California

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CN	55596 001701	<i>not/cw</i>	1/05	

Completion Date 8/9/2004
 Drilling Method Auger
 Logged by D. Browne
 Surface Elevation 192.05 Hole Dia. 10 in.
 Northing 2138141.6 Easting 5748085.6

Depth (ft.)
 Sample



@ 72 ft.: 95% fine to coarse sand, 5% silt

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



MACTEC

Well Construction Details and
 Log of Boring MW-BW-71-A
 OUCTP

Fort Ord, California

PLATE

A91

DRAWN
 CN

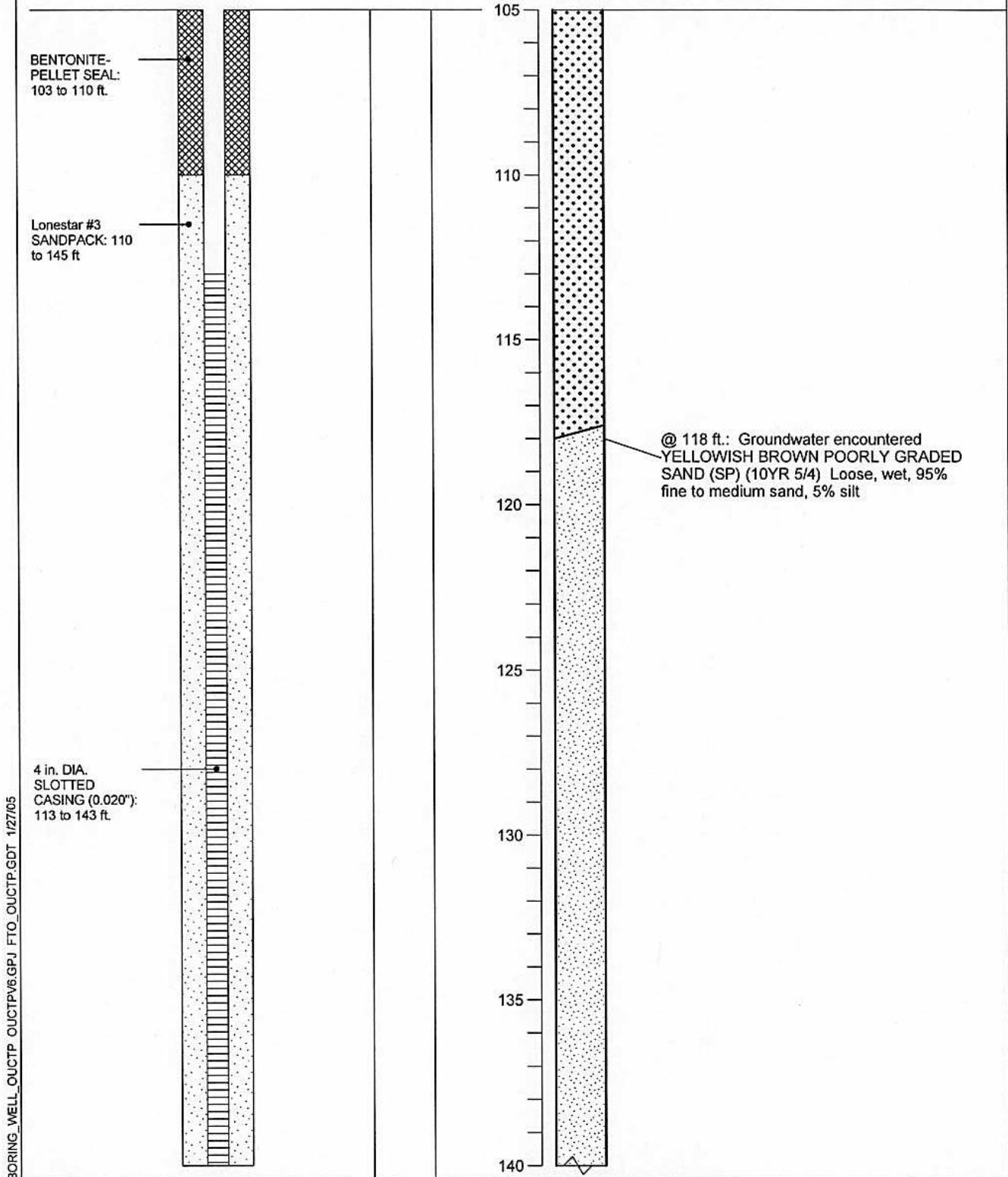
JOB NUMBER
 55596 001701

APPROVED
MDT / cm

DATE
 1/05

REVISED DATE

Completion Date 8/9/2004
 Drilling Method Auger
 Logged by D. Browne
 Surface Elevation 192.05 Hole Dia. 10 in.
 Northing 2138141.6 Easting 5748085.6



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



MACTEC

Well Construction Details and
Log of Boring MW-BW-71-A
OUCTP

PLATE

Fort Ord, California

A91

DRAWN
CN

JOB NUMBER
55596 001701

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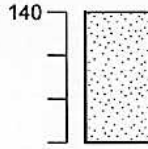
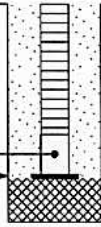
DATE
1/05

REVISED DATE

Completion Date 8/9/2004
 Drilling Method Auger
 Logged by D. Browne
 Surface Elevation 192.05 Hole Dia. 10 in.
 Northing 2138141.6 Easting 5748085.6

Depth (ft.)
 Sample

4 in. DIA. SCHED.
 40 PVC BLANK
 SILT TRAP: 143 to
 144 ft.
 BOTTOM WELL
 CAP: 144 ft.
 HOLE CLEANED
 OUT to 145 ft.



Bottom of boring at 143 ft.

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



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Well Construction Details and
 Log of Boring MW-BW-71-A
 OUCTP

Fort Ord, California

PLATE

A91

DRAWN
 CN

JOB NUMBER
 55596 001701

APPROVED
MOT/can

DATE
 1/05

REVISED DATE

Completion Date 8/24/2004
 Drilling Method Auger
 Logged by D. Browne
 Surface Elevation 45.22 Hole Dia. 10 in.
 Northing 2144550.8 Easting 5741879.3

Top of PVC Casing
 Elev. 44.88 ft.
 CHRISTY
 BOX

GROUND SURFACE
 10 in. DIA.
 BOREHOLE: 0 to
 59 ft.

4 in. DIA. SCHED.
 80 PVC CASING:
 0 to 28.5 ft.

BENTONITE-
 CEMENT SEAL: 4
 to 23 ft.

BENTONITE-
 PELLET SEAL: 23
 to 26 ft.

Lonestar #3
 SANDPACK: 26 to
 60 ft.

Depth (ft.)
 Sample

0
5
10
15
20
25
30
35

CONCRETE SIDEWALK
 VERY DARK GRAYISH BROWN SILTY
 SAND (SM) (10YR 3/2) Loose, dry, 75%
 fine to coarse sand, 25% silt

@ 7 ft.: Color Change to DARK
 YELLOWISH BROWN (10YR 4/4), 85%
 sand, 15% silt

YELLOWISH BROWN WELL GRADED
 SAND (SW) (10YR 5/6) Loose, dry, 90%
 fine to coarse sand, 10% silt

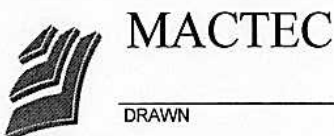
@ 15 ft.: Color change to BROWNISH
 YELLOW (10YR 6/6)

@ 18 FT.: Color change to YELLOWISH
 BROWN (10YR 5/6)

@ 32 ft.: Change to BROWNISH YELLOW
 (10YR 6/8), moist

@ 35 ft.: Wet

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



Well Construction Details and
 Log of Boring MW-BW-73-A
 OUCTP

Fort Ord, California

PLATE

A92

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CN	55596 001701	<i>NOT / cur</i>	1/05	

Completion Date 8/24/2004
 Drilling Method Auger
 Logged by D. Browne
 Surface Elevation 45.22 Hole Dia. 10 in.
 Northing 2144550.8 Easting 5741879.3

Depth (ft.)
 Sample

4 in. DIA.
 SLOTTED
 CASING (0.020"):
 29 to 59 ft.

HOLE CLEANED
 OUT to 60 ft.

35
 40
 45
 50
 55
 60

@ 45 ft.: Color change to YELLOWISH
 BROWN (10YR 5/4); increase in coarse
 sand

LIGHT OLIVE BROWN FAT CLAY WITH
 SAND (CH) (2.5Y 5/3) Soft, moist, 80%
 clay, 20% fine sand
 Bottom of boring at 60 ft.

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



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Well Construction Details and
 Log of Boring MW-BW-73-A
 OUCTP

Fort Ord, California

PLATE

A92

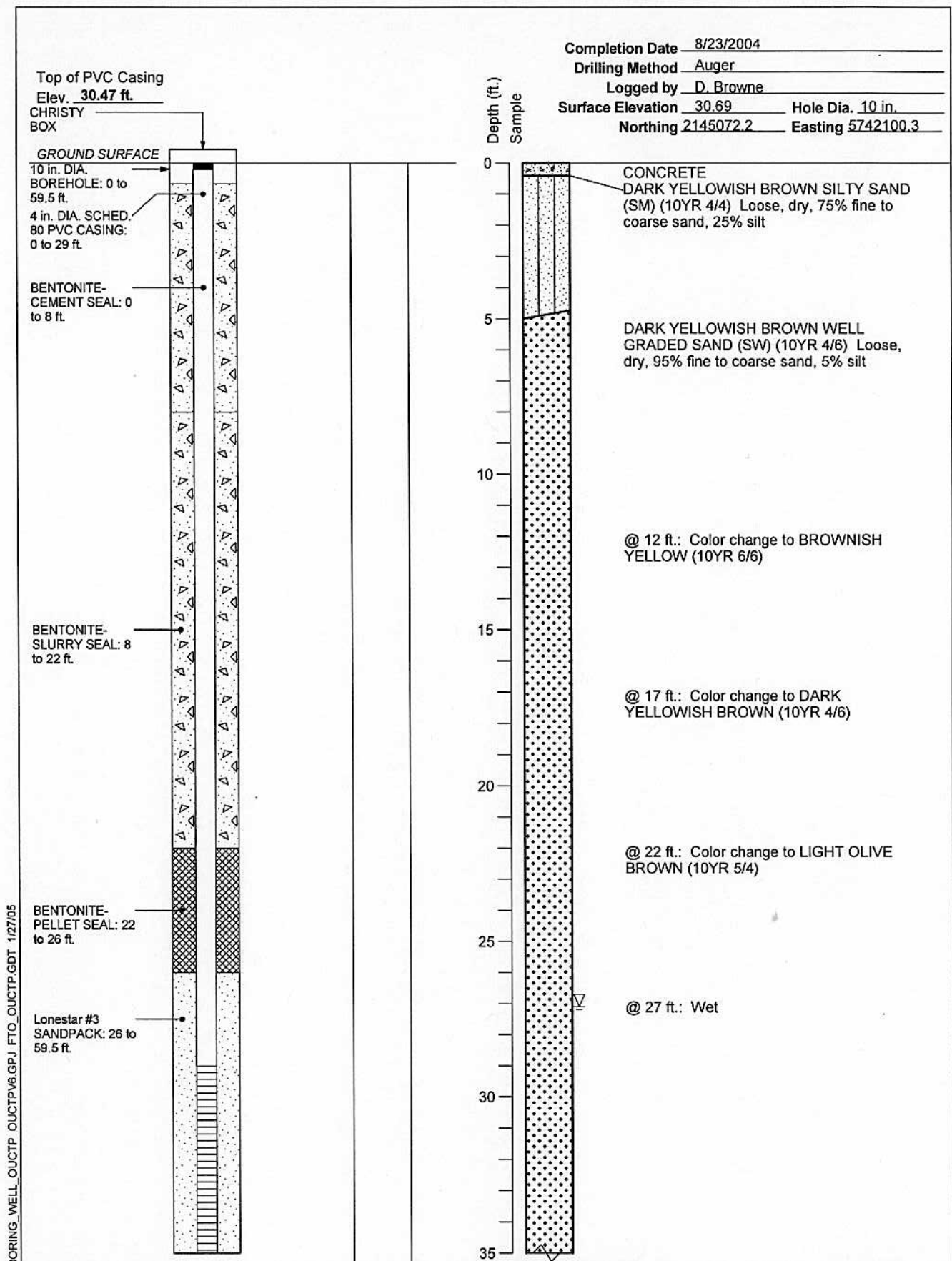
DRAWN
 CN

JOB NUMBER
 55596 001701

APPROVED
MAT/cw

DATE
 1/05

REVISED DATE



BORING WELL OUCTP OUCTPV6 GPJ FTO OUCTP.GDT 1/27/05



MACTEC

**Well Construction Details and
Log of Boring MW-BW-74-A**
OUCTP

PLATE

A93

Fort Ord, California

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CN	55596 001701	<i>MOT / cur</i>	1/05	

Completion Date 8/23/2004

Drilling Method Auger

Logged by D. Browne

Surface Elevation 30.69 Hole Dia. 10 in.

Northing 2145072.2 Easting 5742100.3

Depth (ft.)
Sample

4 in. DIA.
SLOTTED
CASING (0.020"):
29 to 59 ft.

HOLE CLEANED
OUT to 59.5 ft.

35
40
45
50
55

@ 40 ft.: Change to 90% sand, 5% silt, 5%
fine gravel up to 15 mm; increase in coarse
sand to 30%

LIGHT OLIVE BROWN FAT CLAY WITH
SAND (CH) (2.5Y 5/4) Medium stiff, moist,
75% clay, 25% fine to medium sand. Sand
may be mixed from above.
Bottom of boring at 59.5 ft.

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



MACTEC

Well Construction Details and
Log of Boring MW-BW-74-A
OUCTP

Fort Ord, California

PLATE

A93

DRAWN
CN

JOB NUMBER
55596 001701

APPROVED

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DATE
1/05

REVISED DATE

Top of PVC Casing
Elev. 32.32 ft.
CHRISTY
BOX

GROUND SURFACE
10 in. DIA.
BOREHOLE: 0 to
59 ft.
4 in. DIA. SCHED.
80 PVC CASING:
0 to 24 ft.

BENTONITE-
CEMENT SEAL: 2
to 18 ft.

BENTONITE
CHIPS: 18 to 21 ft.

Lonestar #3
SANDPACK: 21 to
54.5 ft.

Completion Date 8/25/2004

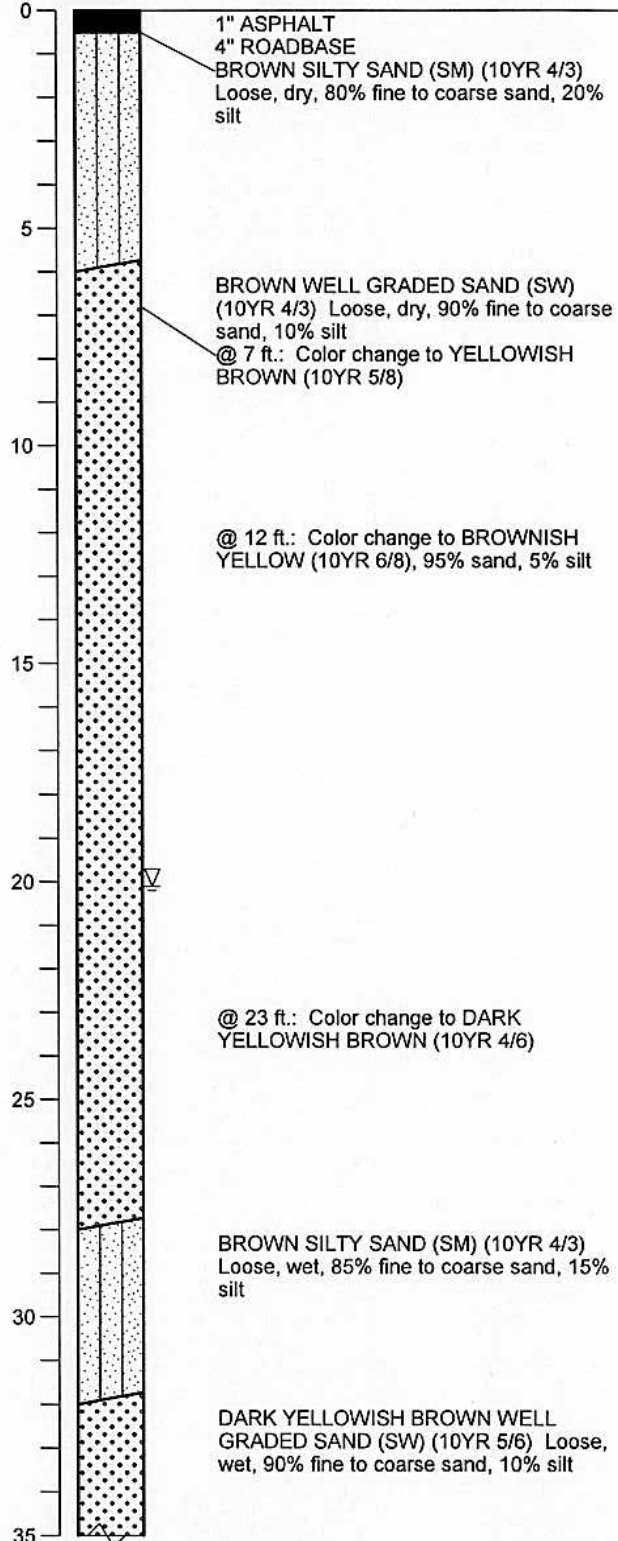
Drilling Method Auger

Logged by D. Browne

Surface Elevation 32.55 Hole Dia. 10 in.

Northing 2145294.5 Easting 5742611.3

Depth (ft.)
Sample



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



MACTEC

Well Construction Details and
Log of Boring MW-BW-75-A
OUCTP

PLATE

Fort Ord, California

DRAWN
CN

JOB NUMBER
55596 001701

APPROVED
MDT/cw

DATE
1/05

REVISED DATE

A94

Completion Date 8/25/2004
 Drilling Method Auger
 Logged by D. Browne
 Surface Elevation 32.55 Hole Dia. 10 in.
 Northing 2145294.5 Easting 5742611.3

Depth (ft.)
 Sample

4 in. DIA.
 SLOTTED
 CASING (0.020"):
 24 to 54 ft

HOLE CLEANED
 OUT to 60 ft.

35
 40
 45
 50

@ 42 ft.: Increase in coarse sand

@ 53 ft.: Driller notes change
 LIGHT OLIVE-BROWN FAT CLAY WITH
 SAND (CH) (2.5Y 5/4) Soft, moist, 80%
 clay, 20% fine sand. Sand may be mixed in
 from above.
 Bottom of boring at 54.5 ft.

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



MACTEC

Well Construction Details and
 Log of Boring MW-BW-75-A
 OUCTP

Fort Ord, California

PLATE

A94

DRAWN
 CN

JOB NUMBER
 55596 001701

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DATE
 1/05

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Top of PVC Casing
Elev. **16.87 ft.**
CHRISTY
BOX

GROUND SURFACE

10 in. DIA.
BOREHOLE: 0 to
50.5 ft.
4 in. DIA. SCHED.
80 PVC CASING:
0 to 20 ft.

BENTONITE-
CEMENT SEAL: 2
to 12 ft.

BENTONITE
CHIPS: 12 to 17 ft.

Lonestar #3
SANDPACK: 17 to
50.5 ft.

Completion Date 8/24/2004

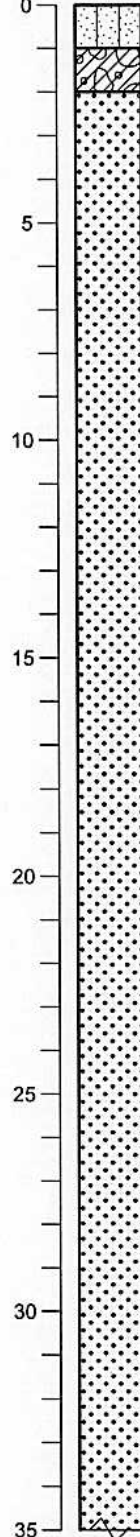
Drilling Method Auger

Logged by D. Browne

Surface Elevation 17.25 Hole Dia. 10 in.

Northing 2145216.2 Easting 5740686.7

Depth (ft.)
Sample



DARK YELLOWISH BROWN SILTY SAND
(SM) (10YR 4/4) Loose, dry, 75% fine to
coarse sand, 25% silt
GREENISH GRAY SILTY GRAVEL WITH
SAND (GC) (10GLY 6/1) Loose, dry, 50%
gravel, 30% fine to coarse sand, 20% silt
BROWNISH YELLOW WELL GRADED
SAND (SW) (10YR 6/6) Loose, dry, 90%
fine to coarse sand, 10% silt

@ 12 ft.: Change to LIGHT OLIVE
BROWN, wet, increase in coarse sand

@ 20 ft.: Color change to OLIVE-BROWN
(2.5Y 4/4)

BORING WELL OUCTP OUCTPV6 GPJ FTO_OUCTP.GDT 1/27/05



MACTEC

Well Construction Details and
Log of Boring MW-BW-76-A
OUCTP

PLATE

Fort Ord, California

A95

DRAWN
CN

JOB NUMBER
55596 001701

APPROVED

MDT/cwr

DATE
1/05

REVISED DATE

Completion Date 8/24/2004
 Drilling Method Auger
 Logged by D. Browne
 Surface Elevation 17.25 Hole Dia. 10 in.
 Northing 2145216.2 Easting 5740686.7

4 in. DIA.
 SLOTTED
 CASING (0.02"):
 20 to 50 ft.

HOLE CLEANED
 OUT to 50.5 ft.
 BACKFILLED
 WITH
 BENTONITE
 CHIPS: 50 to 53 ft

Depth (ft.)
 Sample

35
 40
 45
 50

@ 53 ft.: Driller notes change
 LIGHT OLIVE-BROWN FAT CLAY WITH
 SAND (CH) (2.5Y 5/6) Soft, moist, 80%
 clay, 20% fine sand
 Bottom of boring at 53.5 ft.

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



MACTEC

Well Construction Details and
 Log of Boring MW-BW-76-A
 OUCTP

Fort Ord, California

PLATE

A95

DRAWN
 CN

JOB NUMBER
 55596 001701

APPROVED
MDT/can

DATE
 1/05

REVISED DATE

Top of PVC Casing
Elev. 187.99 ft.

Completion Date 9/16/2003

Drilling Method Hollow Stem Auger

Logged by D. Browne

Surface Elevation 188.53 ft. Hole Dia. 10 in.

Northing 2138479.7 Easting 5748323.1

GROUND SURFACE

Blows/Foot

Recovery
(inches)

Depth (ft.)
Sample

TOP OF CASING:
0.5 ft. above
ground level

BENTONITE-
CEMENT SEAL: 0
to 10 ft.
10 in. DIAMETER
BOREHOLE: 0 to
138 ft.

BENTONITE-
SLURRY SEAL: 10
to 101 ft.

3 in. DIAMETER
PVC SCHEDULE 40
CASING: +0.5 to
107 ft.

DARK GRAYISH BROWN SILTY SAND
(SM) (10YR 4/2) Loose, dry, 80% fine to
coarse sand, 20% silt

@ 5 ft.: Similar to above

@ 7 ft.: Change to DARK YELLOWISH
BROWN (10YR 4/6)

@ 10 ft.: Change to YELLOWISH BROWN
(10YR 5/4) 85% fine to coarse sand, 15%
silt

YELLOWISH BROWN WELL GRADED
SAND (SW) (10YR 5/6) Loose, dry, 90%
fine to coarse sand, 10% silt

@ 15 ft.: Similar to above

@ 20 ft.: Change to YELLOWISH BROWN
(10YR 5/4)

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above

@ 35 ft.: Similar to above

@ 40 ft.: Similar to above

@ 45 ft.: Change to LIGHT OLIVE BROWN
(2.5Y 5/4)

BORING WELL OUCTP OUCTPV6 GPJ FTO OUCTP.GDT 1/27/05



MACTEC

Well Construction Details and
Log of Boring PS-CT-01
OUCTP

PLATE

A96

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED

MDT/can

DATE
1/05

REVISED DATE

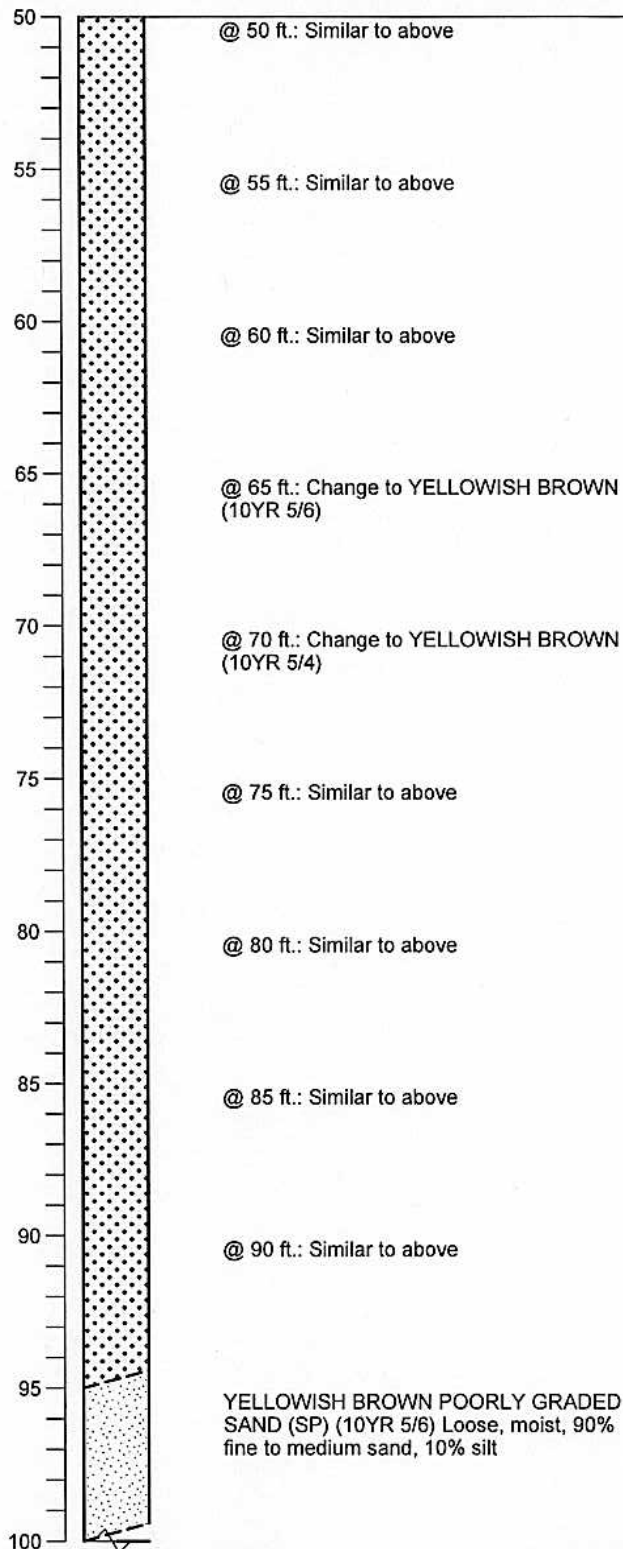
BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05

BENTONITE-
SLURRY SEAL: 10
to 101 ft.

Blows/Foot
Recovery
(inches)

Depth (ft.)
Sample

Completion Date 9/16/2003
Drilling Method Hollow Stem Auger
Logged by D. Browne
Surface Elevation 188.53 ft. Hole Dia. 10 in.
Northing 2138479.7 Easting 5748323.1



Well Construction Details and
Log of Boring PS-CT-01
OUCTP

PLATE



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Completion Date 9/16/2003
 Drilling Method Hollow Stem Auger
 Logged by D. Browne
 Surface Elevation 188.53 ft. Hole Dia. 10 in.
 Northing 2138479.7 Easting 5748323.1

BENTONITE-SLURRY SEAL: 10 to 101 ft.
 BENTONITE-PELLET SEAL: 101 to 104 ft.

Lonestar #3 SANDPACK FILTER: 104 to 138 ft.
 3 in. DIAMETER SLOTTED (0.02 in.) SCREEN: 107 to 137 ft.

BOTTOM WELL CAP: 137 ft.
 Hole cleaned out to 137 ft.
 Bottom of borehole: 138 ft.

Blows/Foot
 Recovery (inches)

3 6
 8 6
 24 6

Depth (ft.)
 Sample

100 YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 5/6) Loose, moist, 90% fine to coarse sand, 10% silt

@ 105 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/4)

@ 110 ft.: Similar to above

@ 112 ft.: Change to Wet

@ 115 ft.: Change to YELLOWISH BROWN (10YR 5/6)

@ 120 ft.: Similar to above

@ 125 ft.: Similar to above

@ 127 ft.: Similar to above

130 YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 5/6) Loose, wet, 90% fine to medium sand, 10% silt

@ 135 ft.: Similar to above

@ 137 ft.: Note: Driller notes change in drill rate

OLIVE GRAY FAT CLAY (CH) (5Y 5/2) Stiff, moist, 95% clay, 10% silt
 Bottom of boring at 138 ft.

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



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Well Construction Details and
 Log of Boring PS-CT-01
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PLATE

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05

Top of PVC Casing
Elev. 185.02 ft.
CHRISTY
BOX

GROUND SURFACE

TOP OF CASING:
0.5 ft. below
ground level

10 in. DIAMETER
BOREHOLE: 0 to
135 ft.

BENTONITE-
CEMENT SEAL: 0
to 10 ft.

BENTONITE-
SLURRY SEAL: 10
to 98 ft.

3 in. DIAMETER
PVC SCHEDULE
40 CASING: 0.5 to
104 ft.

Completion Date 9/18/2003

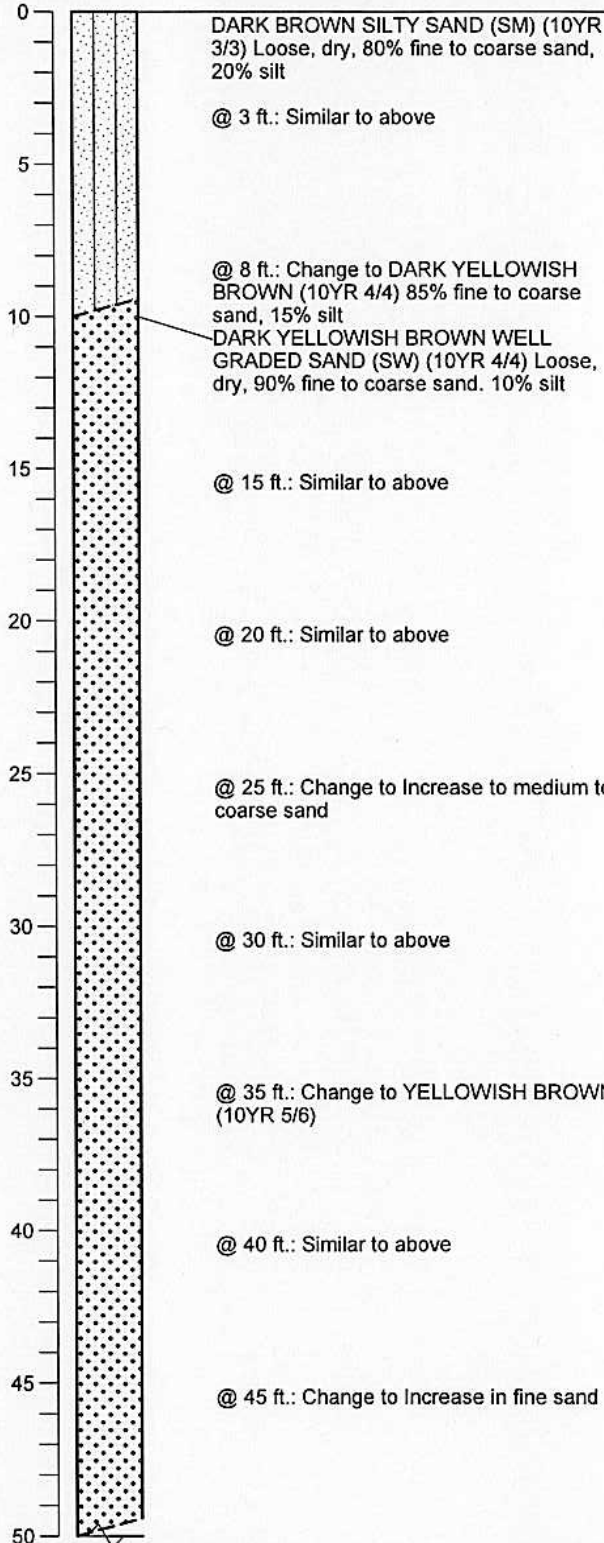
Drilling Method Hollow Stem Auger

Logged by J. Baca

Surface Elevation 185.52 ft. Hole Dia. 10 in.

Northing 2138508.7 Easting 5748305.3

Depth (ft.)
Sample



Well Construction Details and
Log of Boring PS-CT-02
OUCTP

PLATE



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Completion Date 9/18/2003

Drilling Method Hollow Stem Auger

Logged by J. Baca

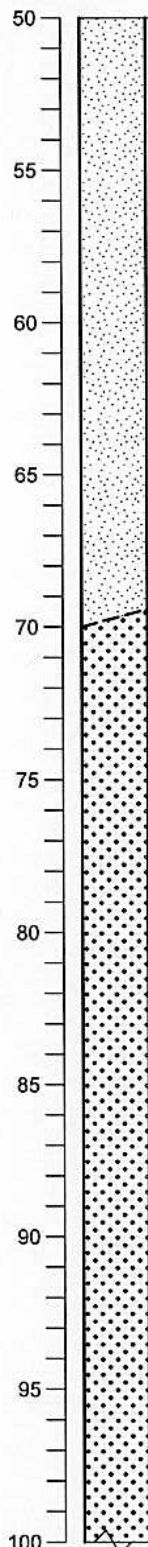
Surface Elevation 185.52 ft. Hole Dia. 10 in.

Northing 2138508.7 Easting 5748305.3

Depth (ft.)
Sample

BENTONITE-
SLURRY SEAL: 10
to 98 ft.

BENTONITE-
PELLET SEAL: 98
to 101 ft.



YELLOWISH BROWN POORLY GRADED
SAND (SP) (10YR 5/6) Loose, dry, 90% fine
to medium sand, 10% silt

@ 55 ft.: Similar to above

@ 60 ft.: Similar to above

@ 65 ft.: Change to Increase in coarse sand

DARK YELLOWISH BROWN WELL
GRADED SAND (SW) (10YR 4/4) Loose,
dry, 90% fine to coarse sand, 10% silt

@ 75 ft.: Similar to above

@ 80 ft.: Change to YELLOWISH BROWN
(10YR 5/6)

@ 85 ft.: Change to Increase in fines

@ 90 ft.: Similar to above

@ 95 ft.: Change to DARK YELLOWISH
BROWN (10YR 4/6)

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



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Well Construction Details and
Log of Boring PS-CT-02

OUCTP

Fort Ord, California

PLATE

A97

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Completion Date 9/18/2003

Drilling Method Hollow Stem Auger

Logged by J. Baca

Surface Elevation 185.52 ft.

Hole Dia. 10 in.

Northing 2138508.7

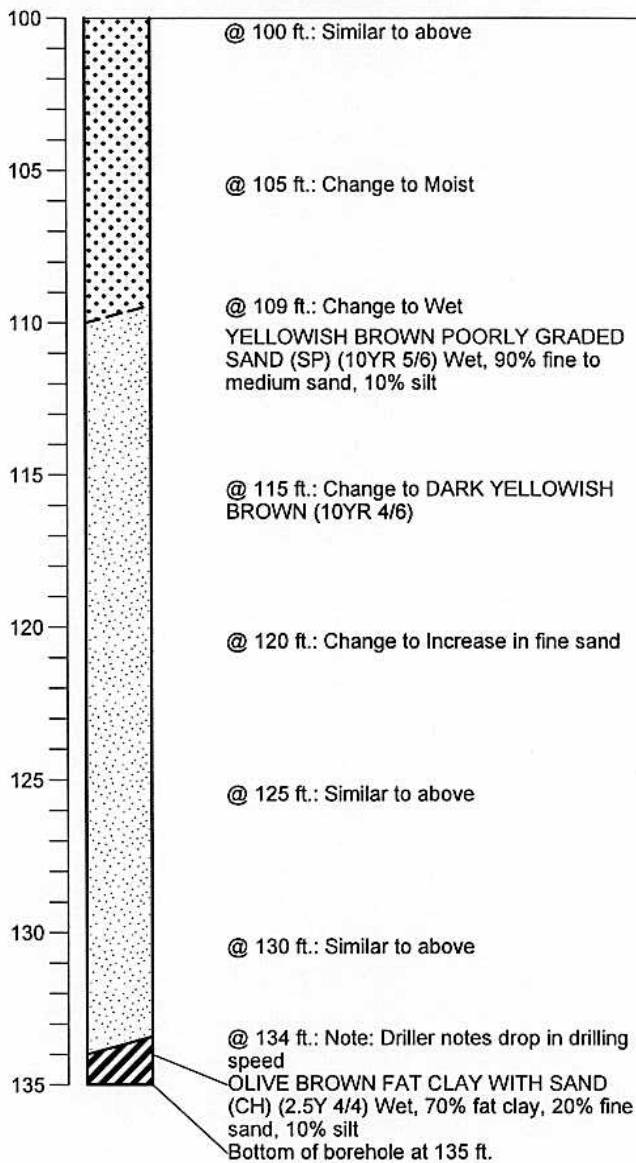
Easting 5748305.3

Depth (ft.)
Sample

BENTONITE-
PELLET SEAL: 98
to 101 ft.

Lonestar #3
SANDPACK
FILTER: 101 to
134 ft.
3 in. DIAMETER
SLOTTED (0.02
in.) SCREEN: 104
to 134 ft.

BOTTOM WELL
CAP: 134 ft.
Hole cleaned out to
135 ft.
Bottom of
borehole: 135 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



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Well Construction Details and
Log of Boring PS-CT-02
OUCTP

Fort Ord, California

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PLATE

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05

Top of PVC Casing
Elev. 186.47 ft.
CHRISTY
BOX

GROUND SURFACE

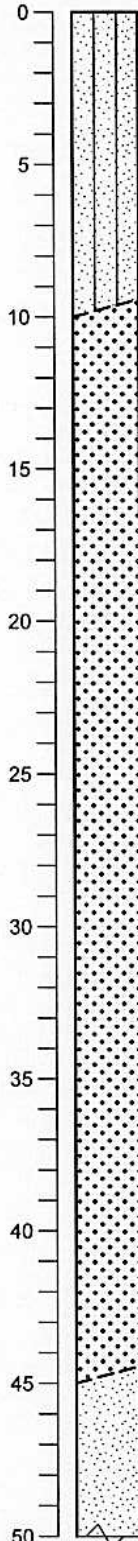
TOP OF CASING:
0.5 ft. below
ground level

10 in. DIAMETER
BOREHOLE: 0 to
136 ft.

BENTONITE-
CEMENT SEAL: 0
to 10 ft.
BENTONITE-
SLURRY SEAL: 10
to 100 ft.

3 in. DIAMETER
PVC SCHEDULE
40 CASING: 0.5 to
105 ft.

Depth (ft.)
Sample



DARK BROWN SILTY SAND (SM) (10YR 3/3) Loose, dry, 70% fine to coarse sand, 30% silt

@ 5 ft.: Similar to above

@ 6 ft.: Change to 85% sand, 15% silt

@ 7 ft.: Change to DARK YELLOWISH BROWN (10YR 4/4)

DARK YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 4/4) Loose, dry, 90% fine to coarse sand, 10% silt

@ 15 ft.: Similar to above

@ 20 ft.: Change to YELLOWISH BROWN (10YR 5/6)

@ 25 ft.: Change to Increase in fine sand

@ 30 ft.: Similar to above

@ 35 ft.: Change to DARK YELLOWISH BROWN (10YR 4/4)

@ 40 ft.: Change to Increase in fine sand

YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 5/6) Loose, dry, 90% sand, 10% silt

Completion Date 9/19/2003

Drilling Method Hollow Stem Auger

Logged by J. Baca

Surface Elevation 187.11 ft.

Hole Dia. 10 in.

Northing 2138512.1

Easting 5748335.5

Well Construction Details and
Log of Boring PS-CT-03

OUCTP

Fort Ord, California

PLATE



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A98

Completion Date 9/19/2003

Drilling Method Hollow Stem Auger

Logged by J. Baca

Surface Elevation 187.11 ft.

Hole Dia. 10 in.

Northing 2138512.1

Easting 5748335.5

Depth (ft.)
Sample

BENTONITE-
SLURRY SEAL: 10
to 100 ft.

50
55
60
65
70
75
80
85
90
95
100

@ 50 ft.: Similar to above

@ 55 ft.: Similar to above

@ 60 ft.: Change to Increase in medium and
coarse sand

DARK YELLOWISH BROWN WELL
GRADED SAND (SW) (10YR 4/6) Loose,
dry, 90% fine to coarse sand, 10% silt

@ 70 ft.: Similar to above

@ 75 ft.: Change to Increase in coarse sand

@ 80 ft.: Similar to above

@ 85 ft.: Change to Increase in fine sand

YELLOWISH BROWN POORLY GRADED
SAND (SP) (10YR 5/6) Loose, moist, 90%
fine to medium sand, 10% silt

@ 95 ft.: Similar to above

BORING WELL OUCTP OUCTPV6.GPJ FTO OUCTP.GDT 1/27/05

Well Construction Details and
Log of Boring PS-CT-03

OUCTP

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Completion Date 9/19/2003
 Drilling Method Hollow Stem Auger
 Logged by J. Baca
 Surface Elevation 187.11 ft. Hole Dia. 10 in.
 Northing 2138512.1 Easting 5748335.5

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05

BENTONITE-
PELLET SEAL:
100 to 103 ft.

Lonestar #3
SANDPACK
FILTER: 103 to
136 ft.
3 in. DIAMETER
SLOTTED (0.02
in.) SCREEN: 105
to 135 ft.

BOTTOM WELL
CAP: 135 ft.
Hole cleaned out to
136 ft.
Bottom of
borehole: 136 ft.

Depth (ft.)
Sample

100
105
110
115
120
125
130
135

@ 100 ft.: Change to DARK YELLOWISH
BROWN (10YR 4/4)

@ 105 ft.: Similar to above

@ 110 ft.: Change to Wet

@ 115 ft.: Change to YELLOWISH BROWN
(10YR 5/6)

@ 120 ft.: Similar to above

@ 125 ft.: Change to Increase in fine sand

@ 130 ft.: Similar to above

@ 135 ft.: Note: Driller notes drop in drilling
speed
OLIVE BROWN FAT CLAY (CH) (2.5Y 4/4)
Hard, wet, 90% fat clay, 10% sand
Bottom of borehole at 136 ft.



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Well Construction Details and
Log of Boring PS-CT-03
OUCTP

Fort Ord, California

PLATE

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DATE
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REVISED DATE

Top of PVC Casing
Elev. 184.11 ft.
CHRISTY
BOX

GROUND SURFACE

TOP OF CASING:
0.5 ft. below
ground level

10 in. DIAMETER
BOREHOLE: 0 to
134 ft.

BENTONITE-
CEMENT SEAL: 0
to 10 ft.

BENTONITE-
SLURRY SEAL: 10
to 97 ft.

3 in. DIAMETER
PVC SCHEDULE
40 CASING: 0.5 to
103 ft.

Completion Date 9/29/2003

Drilling Method Hollow Stem Auger

Logged by J. Baca

Surface Elevation 184.52 ft. Hole Dia. 10 in.

Northing 2138530.8 Easting 5748302.6

Depth (ft.)
Sample

0
5
10
15
20
25
30
35
40
45
50

DARK BROWN SILTY SAND (SM) (10YR 3/3) Loose, dry, 70% fine to coarse sand, 30% silt

@ 5 ft.: Similar to above

@ 7 ft.: Change to Decrease in silt

DARK YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 4/4) Loose, dry, 90% fine to coarse sand, 10% silt

@ 15 ft.: Similar to above

@ 20 ft.: Change to YELLOWISH BROWN (10YR 5/6)

@ 25 ft.: Change to Decrease in fine sand

@ 30 ft.: Similar to above

@ 35 ft.: Change to DARK YELLOWISH BROWN (10YR 4/4)

@ 40 ft.: Similar to above

@ 45 ft.: Change to Increase in fine sand

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



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Well Construction Details and
Log of Boring PS-CT-04

OUCTP

Fort Ord, California

PLATE

A99

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JOB NUMBER
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REVISED DATE

Completion Date 9/29/2003

Drilling Method Hollow Stem Auger

Logged by J. Baca

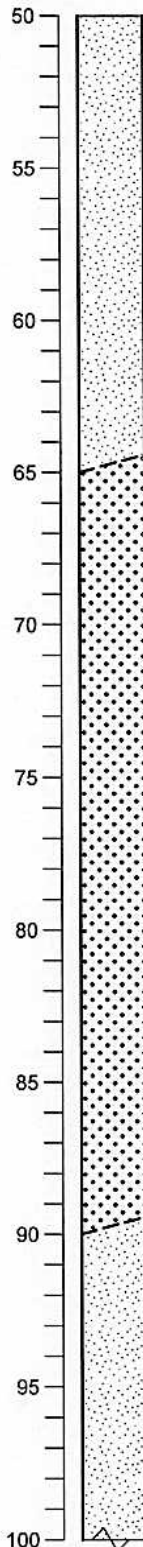
Surface Elevation 184.52 ft. Hole Dia. 10 in.

Northing 2138530.8 Easting 5748302.6

Depth (ft.)
Sample

BENTONITE-
SLURRY SEAL: 10
to 97 ft.

BENTONITE-
PELLET SEAL: 97
to 100 ft.



YELLOWISH BROWN POORLY GRADED
SAND (SP) (10YR 5/6) Loose, dry, 90% fine
sand, 10% silt

@ 55 ft.: Similar to above

@ 60 ft.: Change to STRONG BROWN
(7.5YR 5/6)

DARK YELLOWISH BROWN WELL
GRADED SAND (SW) (10YR 4/6) Loose,
moist, 90% fine to medium sand, 10% silt

@ 70 ft.: Similar to above

@ 75 ft.: Similar to above

@ 80 ft.: Similar to above

@ 85 ft.: Change to Increase in fine sand

YELLOWISH BROWN POORLY GRADED
SAND (SP) (10YR 5/6) Loose, moist, 90%
fine to medium sand, 10% silt

@ 95 ft.: Similar to above

BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05

Well Construction Details and
Log of Boring PS-CT-04
OUCTP

PLATE



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Fort Ord, California

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MBP

JOB NUMBER
55596 001701

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A99

Completion Date 9/29/2003

Drilling Method Hollow Stem Auger

Logged by J. Baca

Surface Elevation 184.52 ft. Hole Dia. 10 in.

Northing 2138530.8 Easting 5748302.6

Depth (ft.)
Sample

Lonestar #3
SANDPACK
FILTER: 100 to
134 ft.
3 in. DIAMETER
SLOTTED (0.02
in.) SCREEN: 103
to 133 ft.

BOTTOM WELL
CAP: 134 ft.
Hole cleaned out to
134 ft.
Bottom of
borehole: 134 ft.

@ 100 ft.: Similar to above

@ 105 ft.: Change to DARK YELLOWISH
BROWN (10YR 4/6)

@ 110 ft.: Change to Wet

@ 115 ft.: Similar to above

@ 120 ft.: Change to Increase in fine sand

@ 125 ft.: Similar to above

@ 130 ft.: Similar to above

@ 133.5 ft.: Note: Driller notes drop in
drilling speed
OLIVE BROWN FAT CLAY (CH) (2.5Y 4/4)
Hard, wet, 90% fat clay, 10% fine sand
Bottom of boring at 134 ft.

BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



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Well Construction Details and
Log of Boring PS-CT-04
OUCTP

Fort Ord, California

PLATE

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BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05

Top of PVC Casing
Elev. 185.42 ft.
CHRISTY
BOX

GROUND SURFACE

TOP OF CASING:
0.5 ft. below
ground level

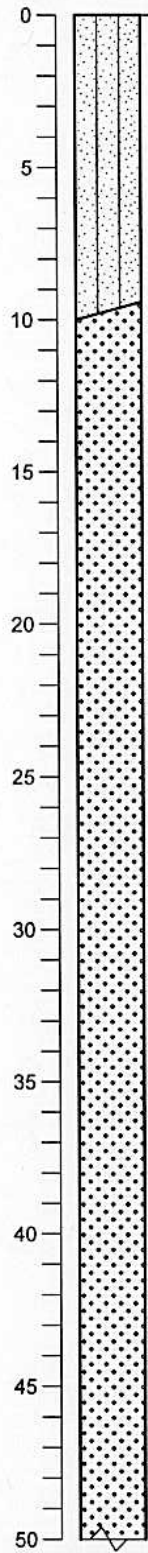
10 in. DIAMETER
BOREHOLE:
0 to 135.5 ft.

BENTONITE-
CEMENT SEAL:
0 to 10 ft.

BENTONITE-
SLURRY SEAL:
10 to 99 ft.

3 in. DIAMETER
PVC SCHEDULE
40 CASING: 0.5 to
105 ft.

Depth (ft.)
Sample



VERY DARK GRAYISH BROWN SILTY
SAND (SM) () Loose, dry, 70% fine
sand, 25% silt, 5% clay

@ 5 ft.: Change to DARK BROWN (10YR
3/3)

@ 7 ft.: Change to Increase in sand

DARK YELLOWISH BROWN WELL
GRADED SAND (SW) (10YR 3/4) Loose,
dry, 90% fine to coarse sand, 10% silt

@ 15 ft.: Similar to above

@ 20 ft.: Change to YELLOWISH BROWN
(10YR 5/6)

@ 25 ft.: Similar to above

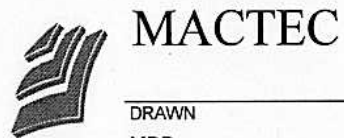
@ 30 ft.: Change to Increase in coarse sand

@ 35 ft.: Similar to above

@ 40 ft.: Change to Decrease in coarse
sand

@ 45 ft.: Similar to above

Completion Date 9/25/2003
Drilling Method Hollow Stem Auger
Logged by J. Baca
Surface Elevation 185.95 ft. Hole Dia. 10 in.
Northing 2138521.7 Easting 5748319.3



Well Construction Details and
Log of Boring PS-CT-05
OUCTP

PLATE

A100

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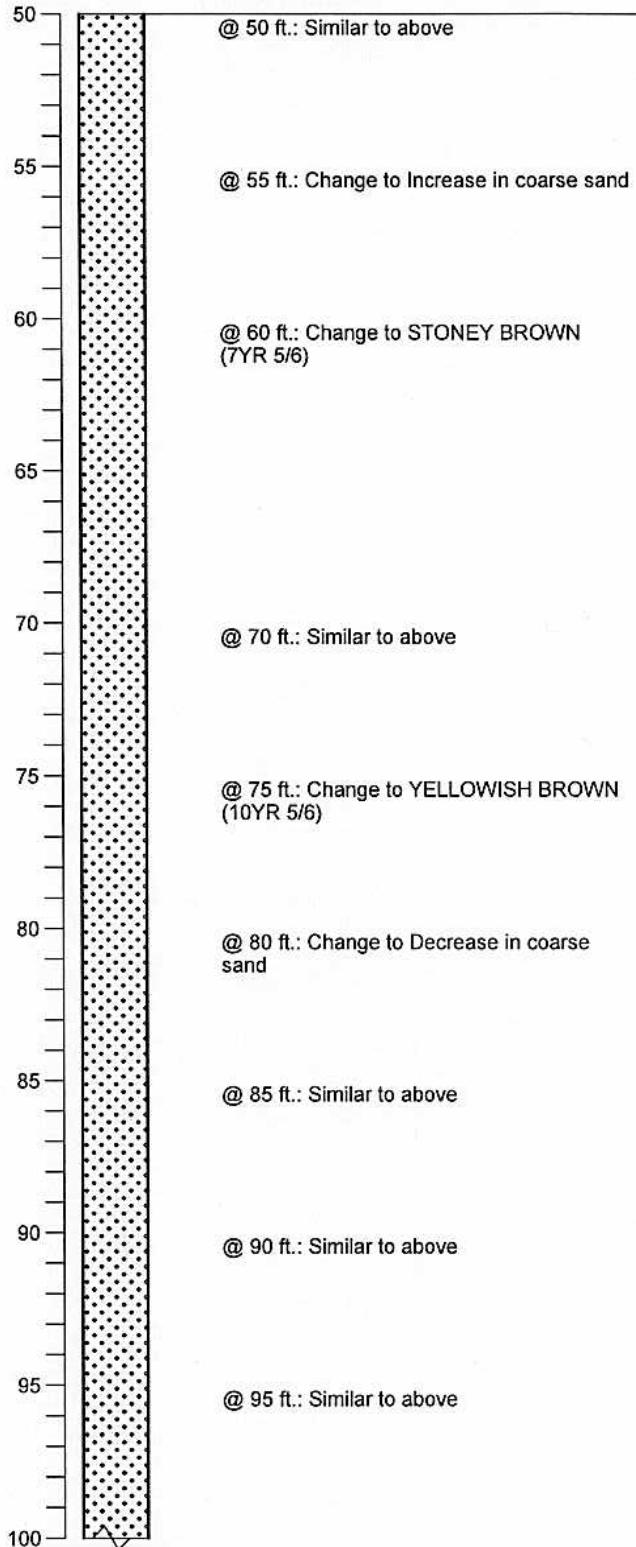
REVISED DATE

Completion Date 9/25/2003
 Drilling Method Hollow Stem Auger
 Logged by J. Baca
 Surface Elevation 185.95 ft. Hole Dia. 10 in.
 Northing 2138521.7 Easting 5748319.3

Depth (ft.)
 Sample

BENTONITE-
 SLURRY SEAL:
 10 to 99 ft.

BENTONITE-
 PELLET SEAL:
 99 to 102 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05

Well Construction Details and
 Log of Boring PS-CT-05
 OUCTP

PLATE



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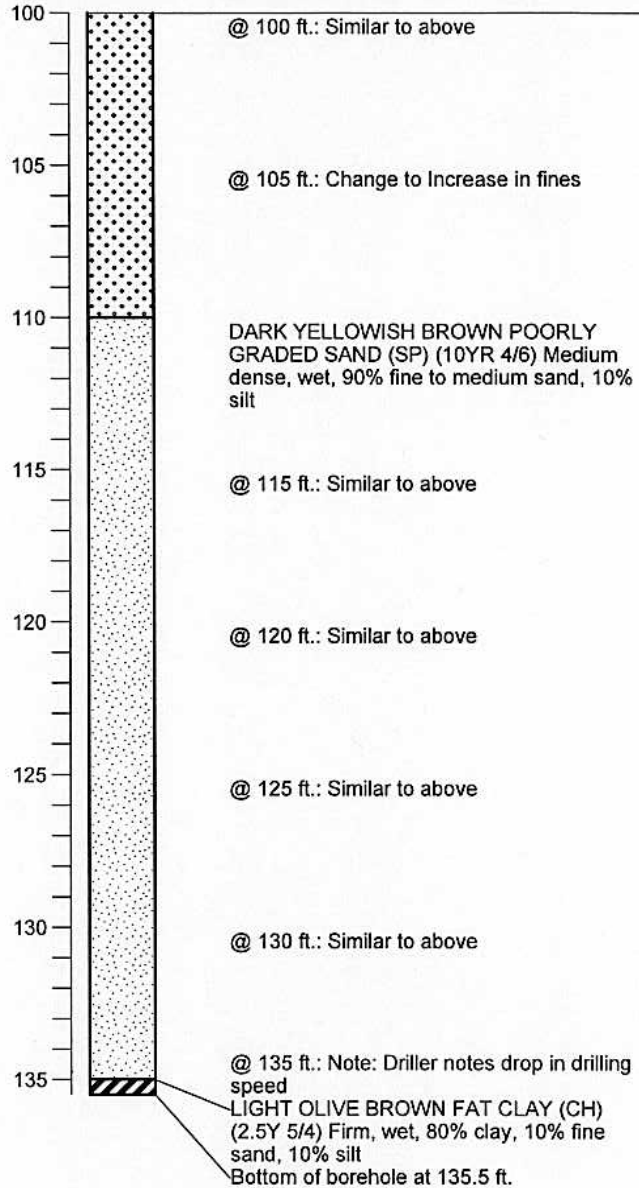
Completion Date 9/25/2003
 Drilling Method Hollow Stem Auger
 Logged by J. Baca
 Surface Elevation 185.95 ft. Hole Dia. 10 in.
 Northing 2138521.7 Easting 5748319.3

Depth (ft.)
 Sample

BENTONITE-
 PELLET SEAL:
 99 to 102 ft.

Lonestar #3
 SANDPACK
 FILTER:
 102 to 135.5 ft.
 3 in. DIAMETER
 SLOTTED (0.02
 in.) SCREEN:
 105 to 135 ft.

BOTTOM WELL
 CAP: 135.5 ft.
 Hole cleaned out to
 135.5 ft.
 Bottom of
 borehole: 135.5 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



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Well Construction Details and
 Log of Boring PS-CT-05
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PLATE

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BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05

Top of PVC Casing
Elev. **186.69 ft.**
CHRISTY
BOX

GROUND SURFACE

TOP OF CASING:
0.5 ft. below
ground level

10 in. DIAMETER
BOREHOLE: 0 to
137 ft.

BENTONITE-
CEMENT SEAL: 0
to 10 ft.

BENTONITE-
SLURRY SEAL: 10
to 100.5 ft.

3 in. DIAMETER
PVC SCHEDULE
40 CASING: 0.5 to
106.5 ft.

Completion Date 9/23/2003

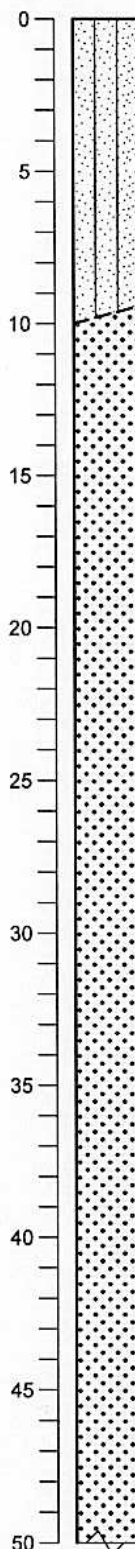
Drilling Method Hollow Stem Auger

Logged by J. Baca

Surface Elevation 187.21 ft. Hole Dia. 10 in.

Northing 2138530.4 Easting 5748333.1

Depth (ft.)
Sample



DARK BROWN SILTY SAND (SM) (10YR 3/3) Loose, dry, 70% fine to medium sand, 30% silt

@ 5 ft.: Change to DARK YELLOWISH BROWN ()

@ 7 ft.: Change to Increase in sand

DARK YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 4/6) Loose, dry, 90% fine to coarse sand, 10% silt

@ 15 ft.: Similar to above

@ 20 ft.: Similar to above

@ 25 ft.: Change to Decrease in coarse sand

@ 30 ft.: Change to YELLOWISH BROWN (10YR 5/6)

@ 35 ft.: Similar to above

@ 40 ft.: Similar to above

@ 45 ft.: Similar to above



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Well Construction Details and
Log of Boring PS-CT-06
OUCTP

PLATE

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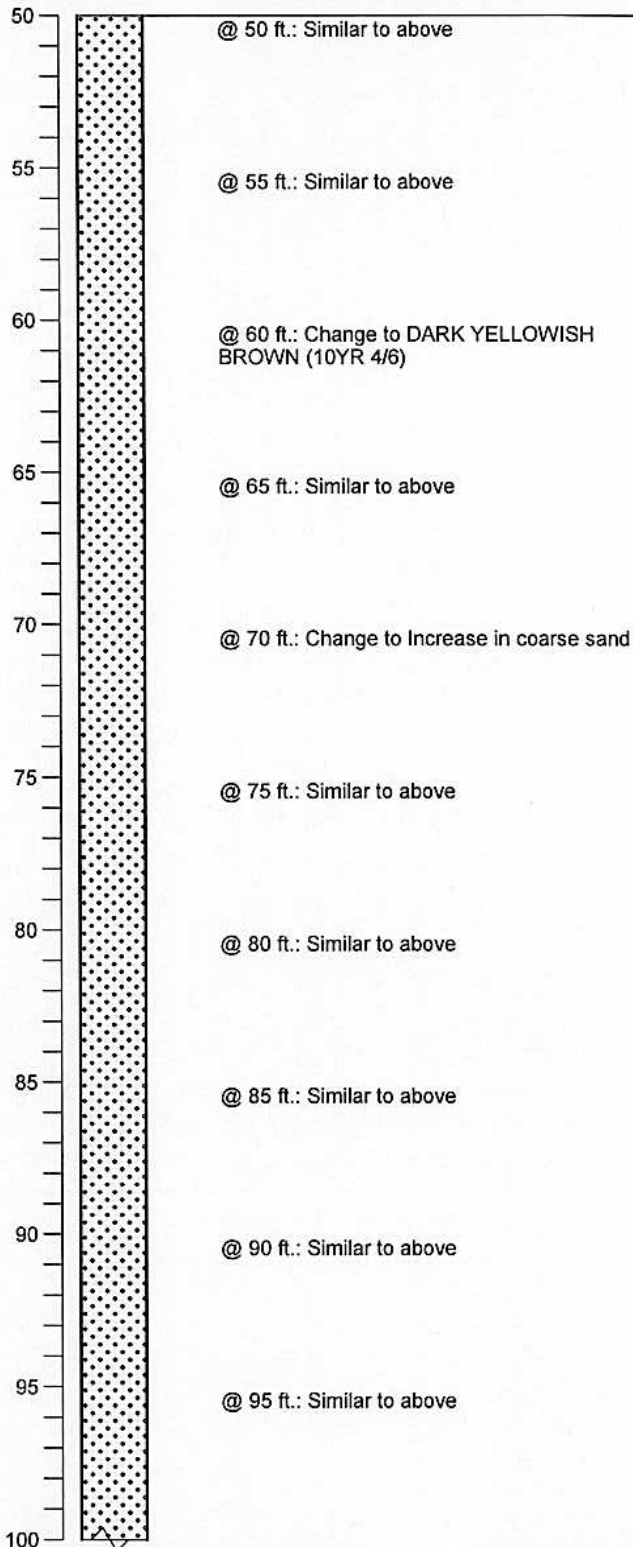
DATE
1/05

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Completion Date 9/23/2003
 Drilling Method Hollow Stem Auger
 Logged by J. Baca
 Surface Elevation 187.21 ft. Hole Dia. 10 in.
 Northing 2138530.4 Easting 5748333.1

Depth (ft.)
 Sample

BENTONITE-
 SLURRY SEAL: 10
 to 100.5 ft.



BORING WELL OUCTP OUCTPV6 GPJ FTO OUCTP GDT 1/27/05



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Well Construction Details and
 Log of Boring PS-CT-06
 OUCTP

PLATE

Fort Ord, California

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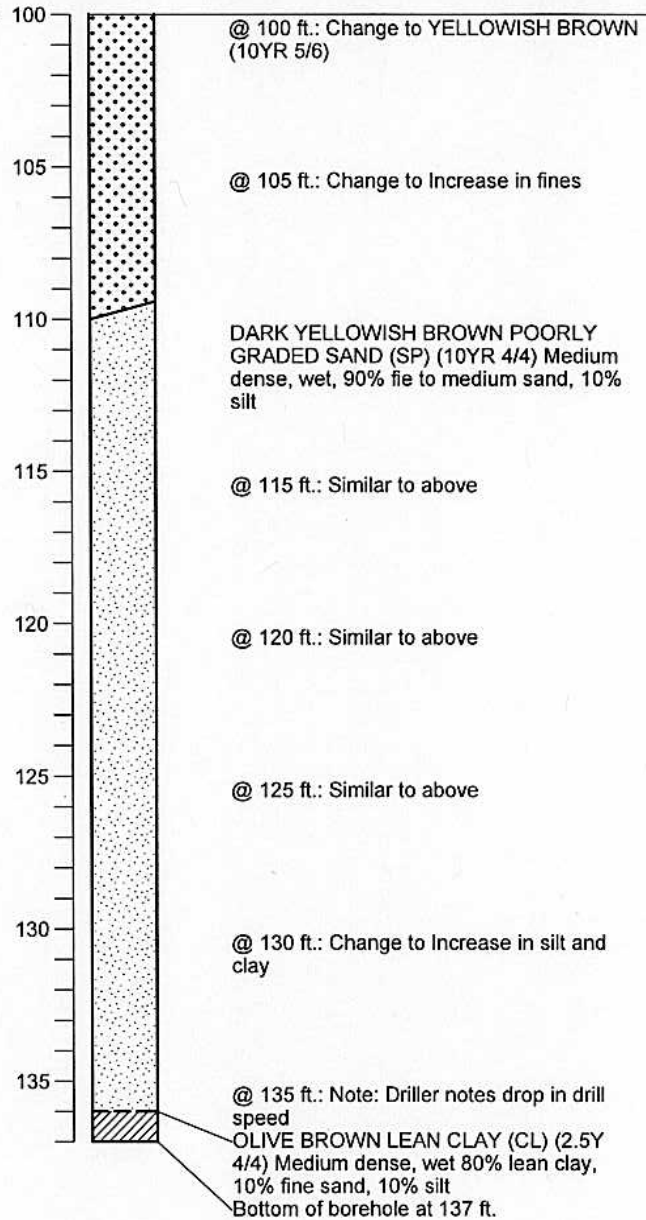
Completion Date 9/23/2003
 Drilling Method Hollow Stem Auger
 Logged by J. Baca
 Surface Elevation 187.21 ft. Hole Dia. 10 in.
 Northing 2138530.4 Easting 5748333.1

Depth (ft.)
 Sample

BENTONITE-
 PELLET SEAL:
 100.5 to 103.5 ft.

Lonestar #3
 SANDPACK
 FILTER: 103.5 to
 137 ft.
 3 in. DIAMETER
 SLOTTED (0.02
 in.) SCREEN:
 106.5 to 136.5 ft.

End cap to bottom
 of screen: 6 in.
 BOTTOM WELL
 CAP: 137 ft.
 Hole cleaned out to
 137 ft.
 Bottom of
 borehole: 137 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ_FTO_OUCTP.GDT 1/27/05

Well Construction Details and
 Log of Boring PS-CT-06
 OUCTP

PLATE



MACTEC

Fort Ord, California

A101

DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED
MDT / car

DATE
 1/05

REVISED DATE

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05

Top of PVC Casing
Elev. 183.72 ft.
CHRISTY
BOX

GROUND SURFACE

TOP OF CASING:
0.5 ft. below
ground level

10 in. DIAMETER
BOREHOLE: 0 to
132.5 ft.

BENTONITE-
CEMENT SEAL: 0
to 10 ft.
BENTONITE-
SLURRY SEAL: 10
to 96 ft.

3 in. DIAMETER
PVC SCHEDULE
40 CASING: 0.5 to
102 ft.

Completion Date 9/25/2003

Drilling Method Hollow Stem Auger

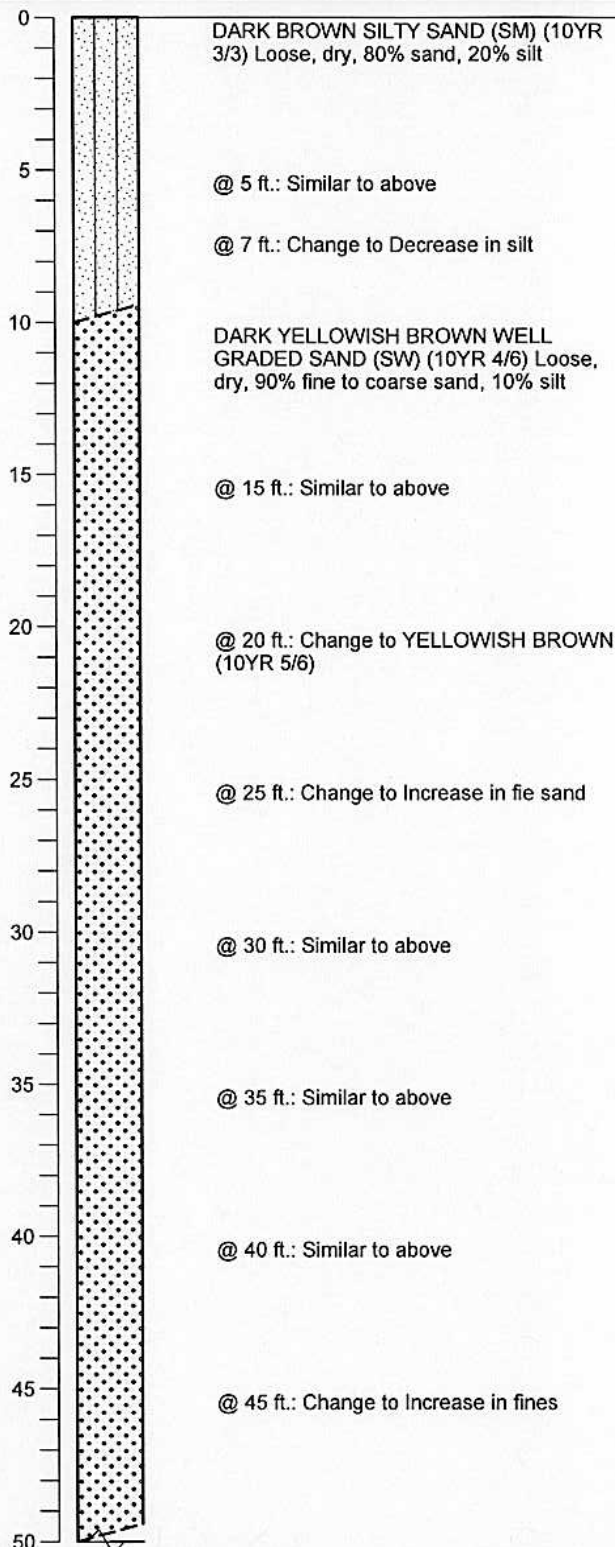
Logged by J. Baca

Surface Elevation 184.13 ft.

Hole Dia. 10 in.

Northing 2138551.8 Easting 5748302.5

Depth (ft.)
Sample



MACTEC

Well Construction Details and
Log of Boring PS-CT-07
OUCTP

PLATE

Fort Ord, California

A102

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED
MDT / cm

DATE
1/05

REVISED DATE

Completion Date 9/25/2003
 Drilling Method Hollow Stem Auger
 Logged by J. Baca
 Surface Elevation 184.13 ft. Hole Dia. 10 in.
 Northing 2138551.8 Easting 5748302.5

Depth (ft.)
 Sample



50
55
60
65
70
75
80
85
90
95
100

YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 5/6) Loose, dry, 90% fine to medium sand, 10% silt

@ 55 ft.: Similar to above

STRONG BROWN WELL GRADED SAND (SW) (7.5YR 5/6) Loose, moist, 90% fine to medium sand, 10% silt

@ 65 ft.: Similar to above

@ 70 ft.: Similar to above

@ 75 ft.: Change to DARK YELLOWISH BROWN (10YR 4/6)

@ 80 ft.: Change to Increase in coarse sand

@ 85 ft.: Similar to above

@ 90 ft.: Similar to above

@ 95 ft.: Similar to above

BORING_WELL_OUCTP OUCTP6.GPJ FTO_OUCTP.GDT 1/27/05



MACTEC

Well Construction Details and
 Log of Boring PS-CT-07
 OUCTP

PLATE

Fort Ord, California

A102

DRAWN
 MBP

JOB NUMBER
 55596 001701

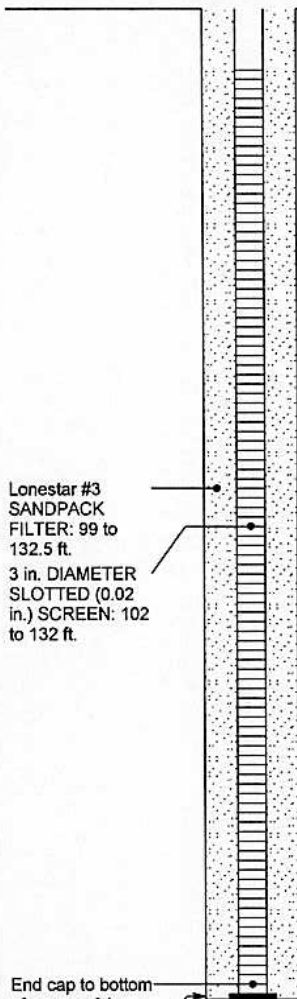
APPROVED
 MDT / cm

DATE
 1/05

REVISED DATE

Completion Date 9/25/2003
 Drilling Method Hollow Stem Auger
 Logged by J. Baca
 Surface Elevation 184.13 ft. Hole Dia. 10 in.
 Northing 2138551.8 Easting 5748302.5

Depth (ft.)
 Sample



100
 105
 110
 115
 120
 125
 130

@ 100 ft.: Change to Increase in fine sand

@ 105 ft.: Similar to above

YELLOWISH BROWN POORLY GRADED
 SAND (SP) (10YR 5/6) Loose, dry, 90% fine
 to medium sand, 10% silt

@ 115.5 ft.: Sample collected

@ 120 ft.: Similar to above

@ 125 ft.: Similar to above

@ 130 ft.: Similar to above

@ 132 ft.: Note: Driller notes drop in drill
 speed
 OLIVE BROWN FAT CLAY (CH) (10YR 4/4)
 Firm, wet, 80% fat clay, 10% silt, 10% fine
 sand
 Bottom of boring at 132.5 ft.

BORING WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



MACTEC

Well Construction Details and
 Log of Boring PS-CT-07
 OUCTP

PLATE

Fort Ord, California

A102

DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED
 MBP / can

DATE
 1/05

REVISED DATE

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05

Top of PVC Casing
Elev. 185.25 ft.
CHRISTY
BOX

GROUND SURFACE

TOP OF CASING:
0.5 ft. below
ground level

10 in. DIAMETER
BOREHOLE: 0 to
135 ft.

BENTONITE-
CEMENT SEAL: 0
to 10 ft.
BENTONITE-
SLURRY SEAL: 10
to 98.5 ft.

3 in. DIAMETER
PVC SCHEDULE
40 CASING: 0.5 to
104.5 ft.

Completion Date 9/24/2003

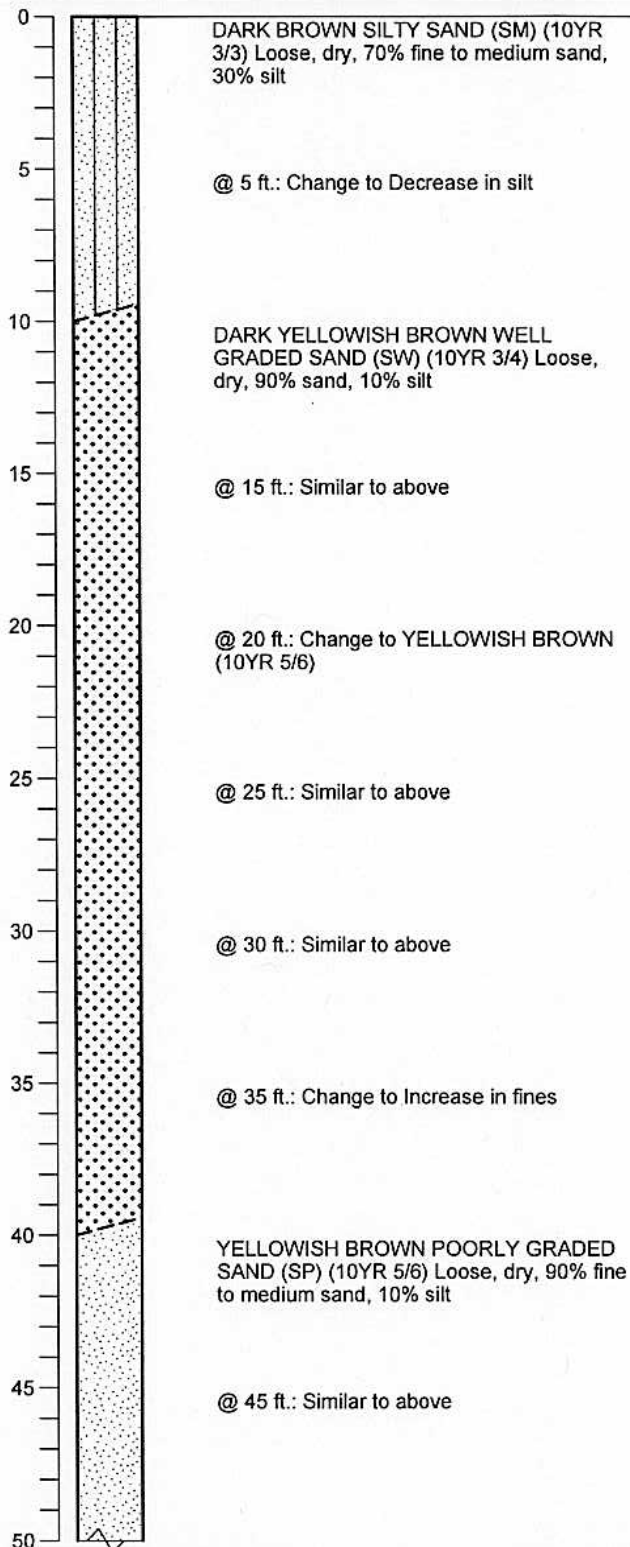
Drilling Method Hollow Stem Auger

Logged by J. Baca

Surface Elevation 185.64 ft. Hole Dia. 10 in.

Northing 2138539.6 Easting 5748317.4

Depth (ft.)
Sample



MACTEC

Well Construction Details and
Log of Boring PS-CT-08
OUCTP

PLATE

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED
MDT/Car

DATE
1/05

REVISED DATE

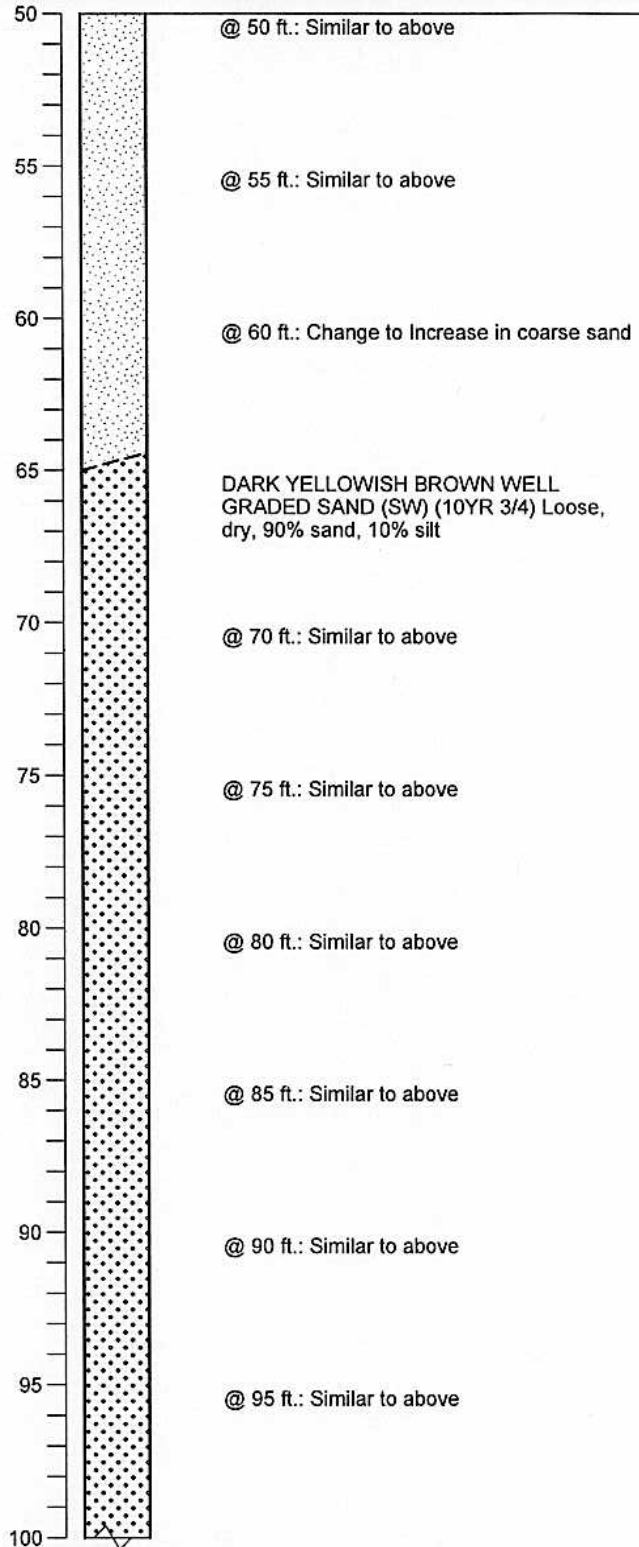
A103

Completion Date 9/24/2003
 Drilling Method Hollow Stem Auger
 Logged by J. Baca
 Surface Elevation 185.64 ft. Hole Dia. 10 in.
 Northing 2138539.6 Easting 5748317.4

Depth (ft.)
 Sample

BENTONITE-
 SLURRY SEAL: 10
 to 98.5 ft.

BENTONITE-
 PELLET SEAL:
 98.5 to 101.5 ft.



BORING WELL OUCTP OUCTPV8.GPJ FTO_OUCTP.GDT 1/27/05



MACTEC

Well Construction Details and
 Log of Boring PS-CT-08
 OUCTP

PLATE

Fort Ord, California

DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED
 MDT / cm

DATE
 1/05

REVISED DATE

A103

Completion Date 9/24/2003

Drilling Method Hollow Stem Auger

Logged by J. Baca

Surface Elevation 185.64 ft. Hole Dia. 10 in.

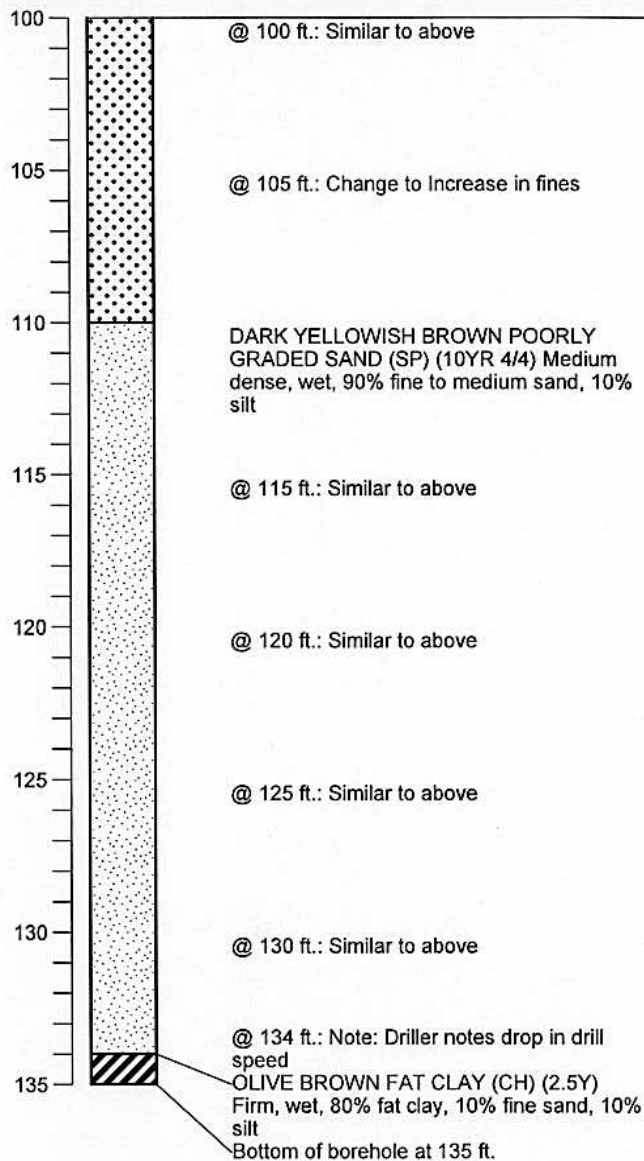
Northing 2138539.6 Easting 5748317.4

Depth (ft.)
Sample

BENTONITE-
PELLET SEAL:
98.5 to 101.5 ft.

Lonestar #3
SANDPACK
FILTER: 101.5 to
135 ft.
3 in. DIAMETER
SLOTTED (0.02
in.) SCREEN:
104.5 to 134.5 ft.

BOTTOM WELL
CAP: 135 ft.
Hole cleaned out to
135 ft.
Bottom of
borehole: 135 ft.



BORING_WELL_OUCTP_OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



MACTEC

Well Construction Details and
Log of Boring PS-CT-08
OUCTP

PLATE

Fort Ord, California

A103

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED
MDT / cm

DATE
1/05

REVISED DATE

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05

Top of PVC Casing
Elev. 183.43 ft.
CHRISTY
BOX

GROUND SURFACE

TOP OF CASING:
0.5 ft. below
ground level

10 in. DIAMETER
BOREHOLE: 0 to
133.5 ft.

BENTONITE-
CEMENT SEAL: 0
to 10 ft.

BENTONITE-
SLURRY SEAL: 10
to 95.5 ft.

3 in. DIAMETER
PVC SCHEDULE
40 CASING: 0.5 to
102.5 ft.

Depth (ft.)
Sample

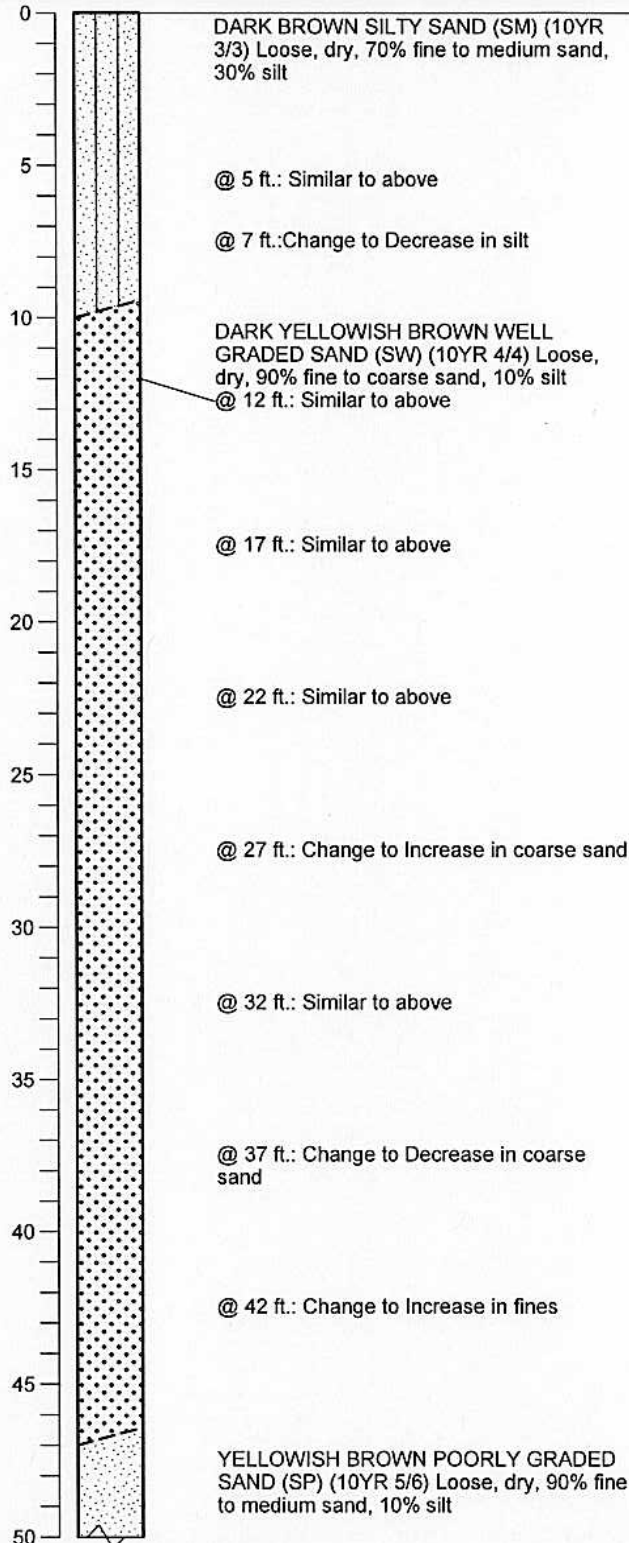
Completion Date 9/22/2003

Drilling Method Hollow Stem Auger

Logged by J. Baca

Surface Elevation 183.92 ft. Hole Dia. 10 in.

Northing 2138550.7 Easting 5748331.3



MACTEC

Well Construction Details and
Log of Boring PS-CT-09
OUCTP

PLATE

Fort Ord, California

A104

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED
MDT / cm

DATE
1/05

REVISED DATE

Completion Date 9/22/2003
 Drilling Method Hollow Stem Auger
 Logged by J. Baca
 Surface Elevation 183.92 ft. Hole Dia. 10 in.
 Northing 2138550.7 Easting 5748331.3

BORING WELL OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05

BENTONITE-
SLURRY SEAL: 10
to 95.5 ft.

BENTONITE-
PELLET SEAL:
95.5 to 98.5 ft.

Depth (ft.)
Sample

50
55
60
65
70
75
80
85
90
95
100

@ 52 ft.: Similar to above

@ 57 ft.: Change to Increase in coarse sand

DARK YELLOWISH BROWN WELL
GRADED SAND (SW) (10YR 4/4) Loose,
dry, 90% fine to coarse sand, 10% silt

@ 67 ft.: Similar to above

@ 72 ft.: Change to Increase in coarse sand

@ 77 ft.: Similar to above

@ 82 ft.: Similar to above

@ 87 ft.: Similar to above

@ 92 ft.: Change to Increase in fines

@ 97 ft.: Similar to above



MACTEC

Well Construction Details and
Log of Boring PS-CT-09
OUCTP

PLATE

Fort Ord, California

A104

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED
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DATE
1/05

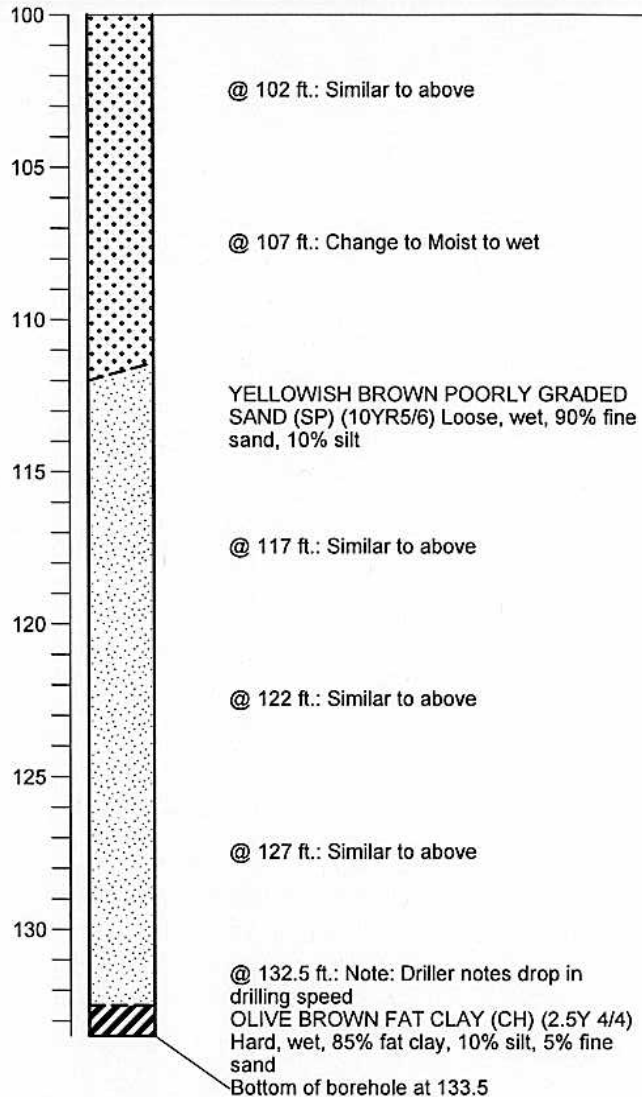
REVISED DATE

Completion Date 9/22/2003
 Drilling Method Hollow Stem Auger
 Logged by J. Baca
 Surface Elevation 183.92 ft. Hole Dia. 10 in.
 Northing 2138550.7 Easting 5748331.3

Depth (ft.)
 Sample

Lonestar #3
 SANDPACK
 FILTER: 98.5 to
 132.5 ft.
 3 in. DIAMETER
 SLOTTED (0.02
 in.) SCREEN:
 102.5 to 132.5 ft.

BOTTOM WELL
 CAP: 132.5 ft.
 Hole cleaned out to
 133.5 ft.
 Bottom of
 borehole: 133.5 ft.



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



MACTEC

Well Construction Details and
 Log of Boring PS-CT-09
 OUCTP

Fort Ord, California

PLATE

A104

DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED
MBP / cur

DATE
 1/05

REVISED DATE

Completion Date 9/30/2003

Drilling Method Hollow Stem Auger

Logged by J. Baca

Surface Elevation 186.45 ft.

Hole Dia. 12 in.

Northing 2138500.9

Easting 5748320.8

Top of PVC Casing
Elev. 186.08 ft.
CHRISTY
BOX

GROUND SURFACE

TOP OF CASING:
0.5 ft. below
ground level

12 in. DIAMETER
BOREHOLE: 0 to
135.5 ft.

BENTONITE-
CEMENT SEAL: 0
to 10 ft.

BENTONITE-
SLURRY SEAL: 10
to 104 ft.

5 in. DIAMETER
PVC SCHEDULE
40 CASING: 0.5 to
135 ft.

Depth (ft.)
Sample

0
5
10
15
20
25
30
35
40
45
50

DARK BROWN SILTY SAND (SM) (10YR 3/3) Loose, dry, 80% fine sand, 15% silt, 5% clay

@ 5 ft.: Similar to above

@ 7 ft.: Change to Increase in sand

DARK YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 4/6) Loose, dry, 90% fine to coarse sand, 10% silt

@ 15 ft.: Similar to above

@ 20 ft.: Change to YELLOWISH BROWN (10YR 5/6)

@ 25 ft.: Change to Increase in coarse sand

@ 30 ft.: Similar to above

@ 35 ft.: Change to Increase in fine sand

YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 5/6) Loose, dry, 90% fine to medium sand, 10% silt

@ 45 ft.: Similar to above

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 1/27/05



MACTEC

Well Construction Details and
Log of Boring PS-CT-IW
OUCTP

PLATE

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED

MDT / cm

DATE
1/05

REVISED DATE

A105

Completion Date 9/30/2003

Drilling Method Hollow Stem Auger

Logged by J. Baca

Surface Elevation 186.45 ft.

Hole Dia. 12 in.

Northing 2138500.9

Easting 5748320.8

Depth (ft.)
Sample

BENTONITE-
SLURRY SEAL: 10
to 104 ft.

50
55
60
65
70
75
80
85
90
95
100

@ 50 ft.: Similar to above

DARK YELLOWISH BROWN WELL
GRADED SAND (SW) (10YR 4/4) Loose,
dry, 90% fine to coarse sand, 10% silt

@ 60 ft.: Change to Increase in coarse sand

@ 65 ft.: Similar to above

@ 70 ft.: Similar to above

@ 75 ft.: Similar to above

@ 80 ft.: Similar to above

@ 85 ft.: Similar to above

@ 90 ft.: Change to YELLOWISH BROWN
(10YR 5/6)

@ 95 ft.: Similar to above

BORING WELL OUCTP OUCTPV6.GPJ FTO OUCTP.GDT 1/27/05



MACTEC

Well Construction Details and
Log of Boring PS-CT-1W
OUCTP

PLATE

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED
MDT / *Jan*

DATE
1/05

REVISED DATE

A105

Completion Date 9/30/2003

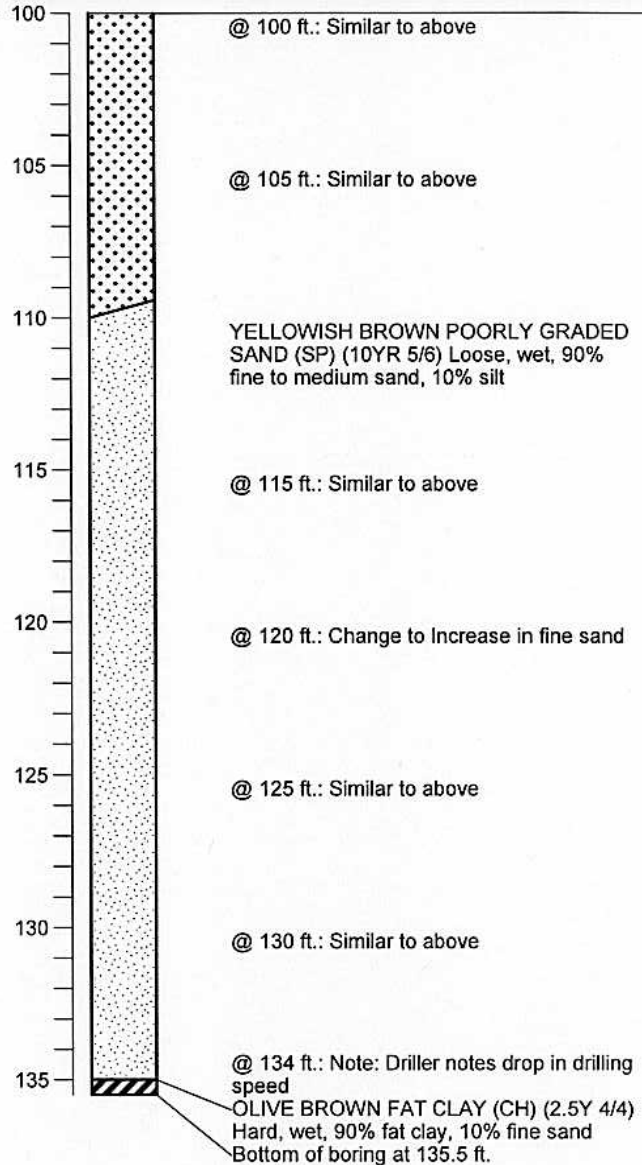
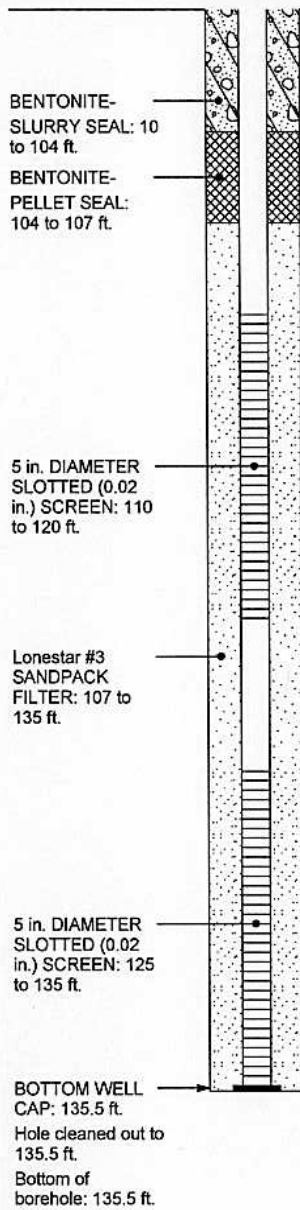
Drilling Method Hollow Stem Auger

Logged by J. Baca

Surface Elevation 186.45 ft. Hole Dia. 12 in.

Northing 2138500.9 Easting 5748320.8

Depth (ft.)
Sample



BORING_WELL_OUCLTP_OUCLTPV6.GPJ FTO_OUCLTP.GDT 1/27/05



MACTEC

Well Construction Details and
Log of Boring PS-CT-IW
OUCLTP

Fort Ord, California

PLATE

A105

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED
MST / cur

DATE
1/05

REVISED DATE

Top of PVC Casing
Elev. 79.17 ft.

GROUND SURFACE

2 in. DIAMETER
SCHEDULE 40
PVC BLANK
CASING: +0.3 to
85 ft.

8 in. DIAMETER
BOREHOLE: 0 to
85 ft.

BENTONITE-
CEMENT SEAL: 0
to 43 ft.

Completion Date 5/13/2003

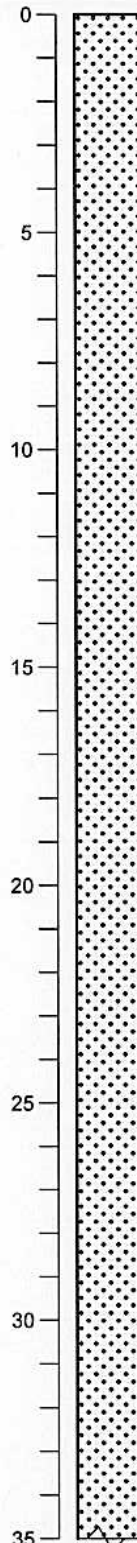
Drilling Method Auger

Logged by J. Newman

Surface Elevation 76.80 ft. Hole Dia. 8 in.

Northing 2144001.8 Easting 5743670

Depth (ft.)
Sample



VERY DARK GRAYISH BROWN WELL
GRADED SAND (SW) (2.5Y 3/2) Loose,
dry, 80% fine to coarse sand, 10% silt, 10%
organics

@ 3.5 ft.: Change to OLIVE YELLOW (2.5Y
6/6)

@ 10 ft.: Change to Fine to medium sand

@ 20 ft.: Change to LIGHT OLIVE BROWN
(2.5Y 5/6) Loose, moist

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring PZ-BW-44-A
OUCTP

Fort Ord, California

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED

MDT / *can*

DATE
11/04

REVISED DATE

PLATE

A106

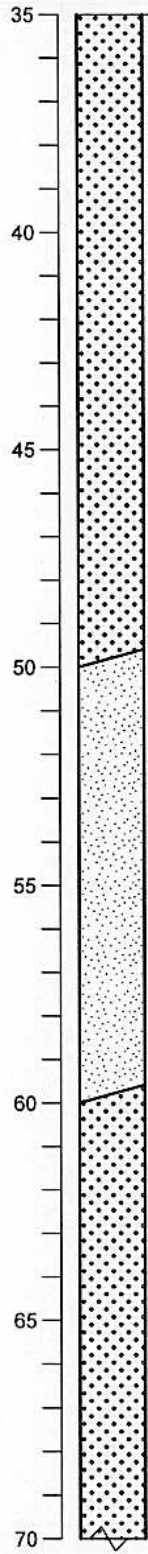
Completion Date 5/13/2003
 Drilling Method Auger
 Logged by J. Newman
 Surface Elevation 76.80 ft. Hole Dia. 8 in.
 Northing 2144001.8 Easting 5743670

BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04

BENTONITE
 PELLET SEAL: 43
 to 50 ft.

#3 SANDPACK: 50
 to 85 ft.
 2 in. DIAMETER

Depth (ft.)
 Sample



@ 35 ft.: Change to Fine to medium sand

@ 40 ft.: Similar to above

@ 45 ft.: Change to 95% fine to medium
 sand, 5% silt

LIGHT OLIVE BROWN POORLY GRADED
 SAND (SP) (2.5Y 5/6) Loose, moist, 90%
 fine sand, 5% medium sand, 5% silt

@ 55 ft.: Change to 85% fine sand, 10%
 medium sand, 5% silt

LIGHT OLIVE BROWN WELL GRADED
 SAND (SW) (2.5Y 5/6) 95% fine to medium
 sand, 5% silt

@ 65 ft.: Change to 95% fine to coarse
 sand, 5% silt



MACTEC

**Well Construction Details and
 Log of Boring PZ-BW-44-A**
 OUCTP

PLATE

A106

Fort Ord, California

DRAWN
 MBP

JOB NUMBER
 55596 001701

APPROVED
MDT / cmr

DATE
 11/04

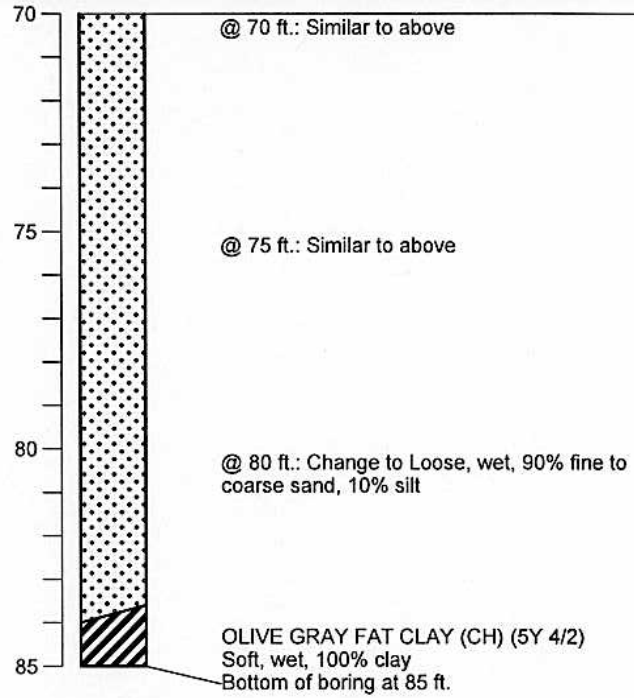
REVISED DATE

Completion Date 5/13/2003
 Drilling Method Auger
 Logged by J. Newman
 Surface Elevation 76.80 ft. Hole Dia. 8 in.
 Northing 2144001.8 Easting 5743670

SLOTTED (0.020
in.) SCREEN: 54.7
to 84.7 ft

BOTTOM WELL
CAP: 85 ft

Depth (ft.)
Sample



BORING_WELL_OUCTP OUCTPV6.GPJ FTO_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and
Log of Boring PZ-BW-44-A
OUCTP

PLATE

Fort Ord, California

A106

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED
MBT / cm

DATE
11/04

REVISED DATE

DATE
Original, Duplicate and Triplicate with the
REGIONAL WATER POLLUTION
CONTROL BOARD No. 52
(Project number)

WATER WELL DRILLERS REPORT

(Sections 2014, 2017, 2021, Water Code)

STATE OF CALIFORNIA

Do Not Fill in AIRFIELD
No. 79335

State Well No.

Order Well No.

OWNER: Justin B. Moses
Survey & Materials Branch

Address: H. J. Army Corps of Engineers
Sacramento 8, California

(1) LOCATION OF WELL: Fort Ord
County: Monterey Order's number, if any: Airport
S. T. D. or Street No.

Calif. State Grid Coordinates (Lambert System)
4 501. 645.02
S. 1. 188. 878.60

(3) TYPE OF WORK (check):

New well ☒ Deepening ☐ Remedial/repair ☐ Abandon ☐

If abandonment, describe material and procedure in item 11.

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☒ Other ☐

(5) EQUIPMENT:

Rotary ☐
Cable ☐
Dug Well ☐

(6) CASING INSTALLED:

SINGLE ☐ DOUBLE ☒ If gravel packed

From	To	Size	Depth	Material
0	100	18"	18"	18" steel
0	404	12"	12"	12" steel

18" band shoe

Type and size of shoe or well size 12" x 12" x 1'

Describe shoe: Butterfield

(7) PERFORATIONS:

Type of perforation tool: 14111

Size of perforation	Depth	Length	Rate
2 1/2"	318"	347"	6"
2 1/2"	357"	379"	6"

(8) CONSTRUCTION:

Was a surface battery and provided? ☒ Yes ☐ No To what depth

Were any wires used against pollution? ☐ Yes ☒ No If yes, state depth of wires

From 0 To 08

Method of Sealing: Grout

(9) WATER LEVELS:

Depth at which water was first found: 15'

Location level before perforating

Level after perforating

(10) WELL TESTS:

Was a pump test made? ☒ Yes ☐ No If yes, by whom: Fisco & Firstenberg

Field: 10/16/63

Temperature of water: 64.5 F

Was a chemical analysis made? ☐ Yes ☒ No

Was a chemical test made of soil? ☐ Yes ☒ No

(11) WELL LOG:

Total Depth: 402 To Depth of screened well: 396

Formation: Describe by color, absorption, use of material, and structure.

0 ft.	2 ft.	land
2	6	Dark silt
6	62	Yellow sand
62	104	Sandy clay
104	137	Gray clay
137	132	Blue clay
132	148	White sanding sand
148	151	Brown clay
151	156	Medium gray sand
156	167	Blue clay
167	191	Sand
191	196	Sand and cobbles
196	197	Gray clay
197	215	Sand and small gravel
215	226	Gray sand and clay
226	228	Gray clay
228	244	Yellow sandy clay
244	270	Yellow dirty sand
270	298	Brown clay
298	311	Muddy sand
311	318	Sandy clay
318	347	Sand & gravel, well graded
347	358	Light brown clay
358	379	Sand and gravel
379	383	Clay
383	386	Sand and gravel
386	389	Yellow clay
389	395	Sand and gravel
395	402	Yellow clay

(Concrete plug in bottom)

Well started: 3/2/63 If Completed: 9/27/63

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME: Bill Ballman

(Printed name, or corporation) (Typed or printed)

Address: 6778 So. Attomillway

Reedley, California

(Signature) Bill Ballman

License No. 106833

Dated: 10/16/63

Airfield



Well Construction Details and

Log of Airfield Well

Carbon Tetrachloride

RI/FS

Fort Ord, California

PLATE

A107

DRAWN
MBP

JOB NUMBER
55596 001701

APPROVED
MDT/Cur

DATE
12/04

REVISED DATE

	Well Construction Details and Log of Boring F026 Carbon Tetrachloride RI/FS Fort Ord, California	PLATE	A108	
	<hr/>			
	DRAWN JFT	JOB NUMBER 55596 001701	APPROVED <i>MDT/can</i>	DATE 1/05
	REVISED DATE			

Do Not Fill In
No 13383 ✓
Thirteen and 3/4
One and 15 1/2 / 16 . 27

(1) OWNER: Name Department of the Army Address Sacramento, California				(11) WELL LOG: Total depth 560 ft. Depth of completed well 550 ft. Drilling method: Borehole by rotary, circulation, use of mud, and cement																																																															
(2) LOCATION OF WELL: County Monterey (Owner's number of acre 27) Township, Range, and Section T 15-S, R 2-E Distance from center, study, ultimately use: Fort Ord, California				0 to 130' Sand 130 140 Yellow Sandy Clay 140 150 Blue Sandy Clay (Hard) 150 170 Blue Clay 170 190 Blue Sandy Clay 190 225 Sand (tight) 225 245 Sand & Gravel (tight) 245 270 Yellow Sandy Clay 270 290 Sand & Gravel 290 315 Gravel, Yellow Clay Strata 315 325 " " 325 350 Cemented Gravel (Hard) 350 380 Cemented Gravel & Boulders 380 420 Sand & Gravel, few Boulders 420 440 Sand & Gravel, some Clay 440 460 Yellow Sandy Clay & Gravel 460 525 Yellow Sandy Clay 525 560 Sand Sandy Clay																																																															
(3) TYPE OF WORK (check): New Well <input checked="" type="checkbox"/> Deepening <input type="checkbox"/> Remedial <input type="checkbox"/> Drilling <input type="checkbox"/> Extraction, disposal material and disposal in item 11.				(12) EQUIPMENT: Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Other <input type="checkbox"/>																																																															
(4) PROPOSED USE (check): Domestic <input type="checkbox"/> Industrial <input type="checkbox"/> Municipal <input type="checkbox"/> Irrigation <input type="checkbox"/> Test Well <input type="checkbox"/> Other <input type="checkbox"/>				(5) CASING INSTALLED: SPECIAL: OTHER: SINGLE <input type="checkbox"/> DOUBLE <input type="checkbox"/>																																																															
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Size of plug or well shoe: NONE Casings are welded				Size of gravel: 3/4 x 1/8																																																															
(7) PERFORATIONS OR SCREEN: Type of perforations or screen: Factory-milled				Type of perforations or screen: Factory-milled																																																															
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(8) CONSTRUCTION: Was a test run necessary and permitted? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> To what depth 142 ft. Were any extra solid casing perforations? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, give depth of casing				Work started 9/5 - 68, completed 10/23 - 68 WELL DRILLER: J. M. T. J. M. T. This well was drilled by my corporation and also before a crew to the best of my knowledge and belief. NAME Eastern Well Drilling Co., Ltd. Address P.O. Box 47, San Jose, Calif. 95103																																																															
(9) WATER LEVELS: Method of water level: Direct or indirect method of measurement Is water level below ground surface of borehole Date of last water measurement and depth of water				Work started 9/5 - 68, completed 10/23 - 68 WELL DRILLER: J. M. T. J. M. T. This well was drilled by my corporation and also before a crew to the best of my knowledge and belief. NAME Eastern Well Drilling Co., Ltd. Address P.O. Box 47, San Jose, Calif. 95103																																																															
(10) WELL TESTS: Was a test run made? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, by whom? Driller Yield 200 gal. per hour at 235 ft. depth static 62 ft. Transmissibility of casing Was a cemented or casing tested? Yes <input type="checkbox"/> No <input type="checkbox"/>				Work started 9/5 - 68, completed 10/23 - 68 WELL DRILLER: J. M. T. J. M. T. This well was drilled by my corporation and also before a crew to the best of my knowledge and belief. NAME Eastern Well Drilling Co., Ltd. Address P.O. Box 47, San Jose, Calif. 95103																																																															

SKETCH LOCATION OF WELL ON REVERSE SIDE

[illegible]

7. J 575-28 - 10/29

— 24 —

~~Welt 27~~



**Well Construction Details and
Log of Boring FO-27**
Carbon Tetrachloride
RI/FS
Fort Ord, California

PLATE

A109

DRAWN
JFT

JOB NUMBER
55596 001701

APPROVED
MDT / can

DATE
1/05

REVISÉD DATE

OPTIONAL
Form WDR-70-1

WATER WELL DRILLERS REPORT

THE RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

DRILLER'S FILE NO.

No 13382

THIS REPORT IS FOR

DATE 1/5/85

(1) OWNER: Name Department of the Army Address Sacramento, California				(11) WELL LOG: Total Depth 450 ft. Depth of completed well 450 ft. Penetration Remarks by meter, observation, color of material, and otherwise			
(2) LOCATION OF WELL: County Monterey Township Range and Section T 15-S, R 2 Distance from place, county, and state Fort Ord, California				0 to 102' Sand			
(3) TYPE OF WORK (check): New Well <input checked="" type="checkbox"/> Deepening <input type="checkbox"/> Reconditioning <input type="checkbox"/> Drilling <input type="checkbox"/> If construction, describe material and procedure in Item 11.				102 164 Blue Clay			
(4) PROPOSED USE (check): Domestic <input type="checkbox"/> Industrial <input type="checkbox"/> Municipal <input type="checkbox"/> Irrigation <input type="checkbox"/> Test Well <input type="checkbox"/> Other <input type="checkbox"/>				164 210 Sand & Gravel			
(5) CASING INSTALLED: STEEL <input type="checkbox"/> OTHER <input type="checkbox"/> SCHEDULE <input type="checkbox"/> SCHEDULE <input type="checkbox"/>				210 225 Blue Clay, some Shale (Hard)			
If gravel packed				225 262 Clay			
				262 274 Heavy Gravel			
(6) EQUIPMENT: Rig <input checked="" type="checkbox"/> 20 Cable <input type="checkbox"/> Other <input type="checkbox"/>				274 322 Sand & Gravel			
				322 350 Sand (light)			
From ft. To ft. Diam. Cap of Well				350 355 Coarse Gravel (Hard)			
				355 365 Yellow Sandy Clay & Gravel			
Diameter of Hole From ft. To ft.				365 372 Sand & Gravel			
				372 405 Sand & Gravel, few Boulders			
From ft. To ft. Diam. Cap of Well				405 410 Sand & Gravel			
				410 420 Yellow Clay			
From ft. To ft. Diam. Cap of Well				420 432 Gravel			
				432 450 Soft Sandy Clay			
(7) PERFORATIONS OR SCREENS: Type of perforation or screen of screen Factory-filled							
From ft. To ft. Port. per inch Screen per ft. Min. to ft.							
164 210 2 1/2 6 2-1/2 x 160							
262 274 2 1/2 6 2-1/2 x 160							
420 432 2 1/2 6 2-1/2 x 160							
(8) CONSTRUCTION: Was a casing installed and grouted? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> To what depth 110 ft. Was any of the casing grouted? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, what depth of casing From ft. To ft. From ft. To ft.				Well started 7/31/68, completed 9/30/68			
Sketch of casing				WELL DRILLER'S STATEMENT: This well was drilled under my supervision and this report is true to the best of my knowledge and belief.			
(9) WATER LEVELS: Depth to static water from base of well, ft. ft. Standing level before perforation, ft. ft. Standing level after perforation, ft. ft.				NAME Western Well Drilling Co., Ltd.			
(10) WELL TESTS: Was pump installed? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, what Driller From ft. To ft. Port. per inch Screen per ft. Min. to ft.				Address P.O. Box 47, San Jose, California 95103			
From ft. To ft. Port. per inch Screen per ft. Min. to ft.				Phone () 25182 Date March 26, 1969			

SKETCH LOCATION OF WELL ON REVERSE SIDE

DWR 100 (REV. 6-63)

NS 39517. 4/15



Well Construction Details and
Log of Boring F028
Carbon Tetrachloride
RI/FS
Fort Ord, California

PLATE

A110

DRAWN
JFT

JOB NUMBER
55596 001701

APPROVED
MDT/can

DATE
1/05

REVISED DATE