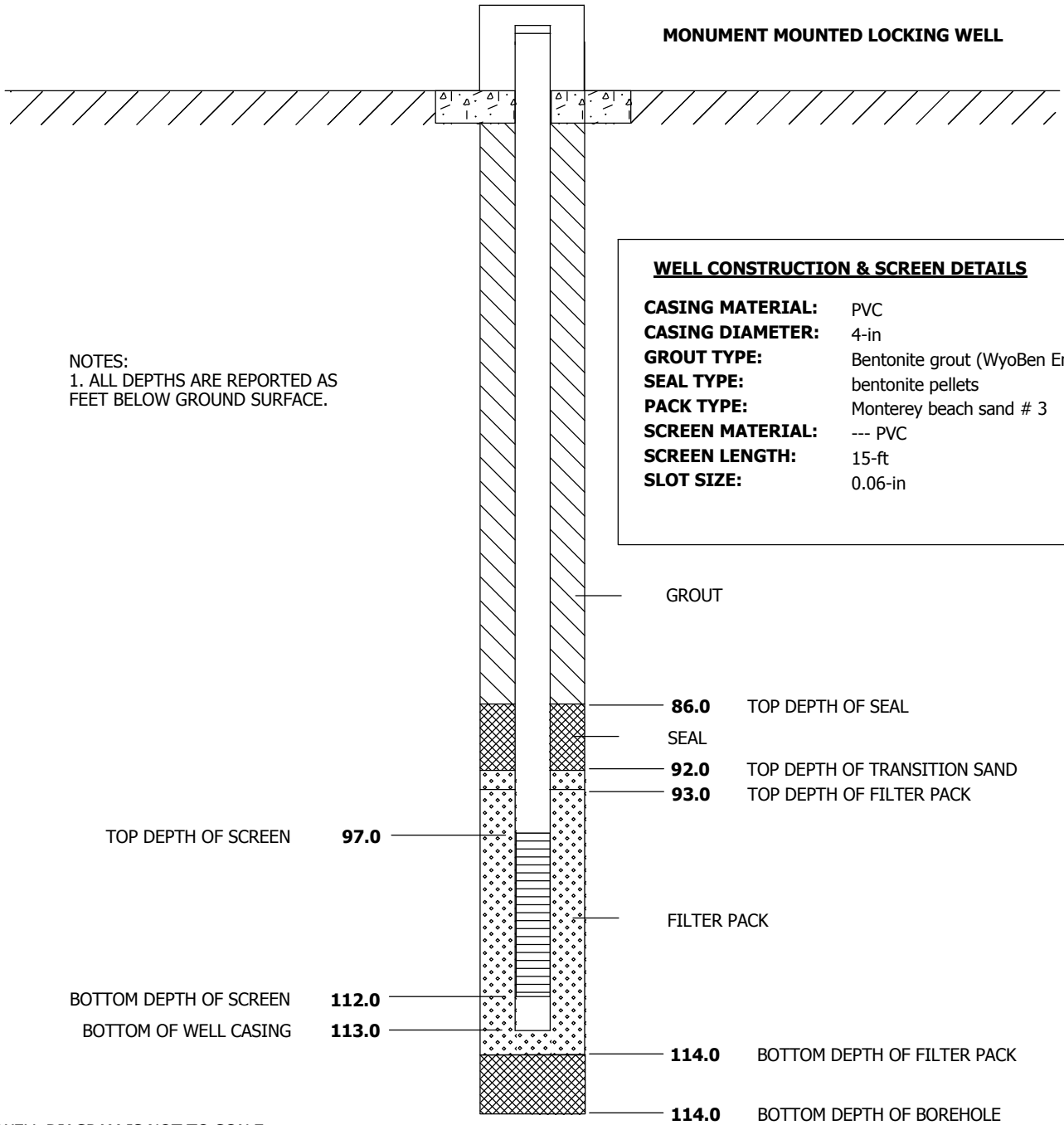
WELL COMPLETION DIAGRAM

PROJECT NO: 326128.01.16.EN	**PROJECT:** IMPM Drill Program	**WELL NO:** ***MW-51***

LOCATION: PG&E Compressor Station - Flood Plain, Topock, California

DRILLING CONTRACTOR: Prosonic	**DRILLING START DATE:** 4/8/2006
DRILLING METHOD: Rotosonic	**DRILLING END DATE:** 4/13/2006
LOGGER: Rob Tweidt / Arlin Brewster	**WELL COMPLETION DATE:** 4/13/2006
TOP OF WELL CASING (NGVD 29): ---	**NORTHING COORDINATE (CCS DAND 27, ZONE 5):** 2101900.11
GROUND SURFACE ELEVATION (NGVD 29): 496.81	**EASTING COORDINATE (CCS NAD 27 ZONE 5):** 7615807.51



WELL DIAGRAM IS NOT TO SCALE

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SHEET 1 of 4	**PROJECT NUMBER:** 326128.01.16.EN	**BORING NUMBER:** *MW-51*

SOIL BORING LOG

PROJECT NAME: IMPM Drill Program		**HOLE DEPTH (ft):** 114.0	**DRILLING CONTRACTOR:**	
SURFACE ELEVATION: 496.8 ft. MSL	**NORTHING (CCS NAD 27 Z 5):** 2,101,900.11	**EASTING (CCS NAD 27 Z 5):** 7,615,807.51	**DATE STARTED:** 3/31/2004	**DATE COMPLETED:**
DRILLING METHOD:			**DRILLING EQUIPMENT:**	
LOCATION: PG&E Compressor Station - Flood Plain, Topock, California			**LOGGED BY:** R. Tweidt / A. Brewster	

DEPTH BGS (feet)	SAMPLE INTERVAL	SAMPLE TYPE/ NUMBER	SAMPLE RECOVERY (ft)	USCS CODE	SOIL DESCRIPTION SOIL NAME, USCS SYMBOL, COLOR, PERCENT COMPOSITION, GRADING, GRAIN SHAPE, MINERALOGY, DENSITY/CONSISTENCY, STRUCTURE, MOISTURE.	COMMENTS DRILLING OBSERVATIONS AND OPERATIONS, DAILY START AND END TIMES , DRILL RATE, REFUSALS, SAMPLING AND TESTING NOTES.
5			0	SM	**SILTY SAND w/ GRAVEL (SM)** - dk yellowish brn (10YR4/4), 20% well graded subang to subrnd met gravel up to 14cm, 50% sand, 30% fines, slightly moist	
10						
15						
20			10		- increased gravel, 40% gravel up to 7cm, 30% sand, 30% fines - 20% gravel up to 5cm, 50% sand, 30% fines	
25					- increased gravel content, 40% gravel up to 7cm, 30% sand, 30% fines - 25% gravel up to 5cm, 45% sand, 30% fines - increased gravel content, 40% gravel up to 7cm, 20% sand, 40% fines, 60/40 met to sed rock ratio	
30				ML	**SILT (ML)** - dk greyish brn (10YR4/2), 10% well graded subang to subrnd gravel up to 5cm, 10% sand, 10% fines, gravel mostly met, slightly moist	
35			8		**SILT w/ SAND and GRAVEL (ML)** - dr yellowish brn (10YR4/4), 20% well graded subang gravel up to 6cm, 20% sand, 60% fines, mostly met gravel, slightly moist	

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BORING NUMBER: *MW-51*

SOIL BORING LOG

PROJECT NAME: IMPM Drill Program		**HOLE DEPTH (ft):** 114.0	**DRILLING CONTRACTOR:**	
SURFACE ELEVATION: 496.8 ft. MSL	**NORTHING (CCS NAD 27 Z 5):** 2,101,900.11	**EASTING (CCS NAD 27 Z 5):** 7,615,807.51	**DATE STARTED:** 3/31/2004	**DATE COMPLETED:**
DRILLING METHOD:			**DRILLING EQUIPMENT:**	
LOCATION: PG&E Compressor Station - Flood Plain, Topock, California			**LOGGED BY:** R. Tweidt / A. Brewster	

DEPTH BGS (feet)	SAMPLE INTERVAL	SAMPLE TYPE/ NUMBER	SAMPLE RECOVERY (ft)	USCS CODE	SOIL DESCRIPTION SOIL NAME, USCS SYMBOL, COLOR, PERCENT COMPOSITION, GRADING, GRAIN SHAPE, MINERALOGY, DENSITY/CONSISTENCY, STRUCTURE, MOISTURE.	COMMENTS DRILLING OBSERVATIONS AND OPERATIONS, DAILY START AND END TIMES , DRILL RATE, REFUSALS, SAMPLING AND TESTING NOTES.
					SILT w/ SAND and GRAVEL (ML) - dr yellowish brn (10YR4/4), 20% well graded subang gravel up to 6cm, 20% sand, 60% fines, mostly met gravel, slightly moist	
40			10	ML	- 25% gravel up to 7cm, 15% sand, 60% fines - increased moisture	
45					- 25% gravel up to 6cm, 15% sand, 60% fines	
50			10		- 20% gravel up to 7cm, 20% sand, 60% fines	
55					- 20% gravel up to 5cm, 15% sand, 65% fines	
60			10	SP	**SAND (SP)** - dk brn (7.5YR 3/4), 5% f gravel, poorly sorted, subang to subrnd up to 12 cm, 85% sand, 10% fines, wet	
65					- 10% gravel up to 8cm, 80% sand, 10% fines	
70						

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SOIL BORING LOG

PROJECT NAME: IMPM Drill Program		**HOLE DEPTH (ft):** 114.0	**DRILLING CONTRACTOR:**	
SURFACE ELEVATION: 496.8 ft. MSL	**NORTHING (CCS NAD 27 Z 5):** 2,101,900.11	**EASTING (CCS NAD 27 Z 5):** 7,615,807.51	**DATE STARTED:** 3/31/2004	**DATE COMPLETED:**
DRILLING METHOD:			**DRILLING EQUIPMENT:**	
LOCATION: PG&E Compressor Station - Flood Plain, Topock, California			**LOGGED BY:** R. Tweidt / A. Brewster	

DEPTH BGS (feet)	SAMPLE INTERVAL	SAMPLE TYPE/ NUMBER	SAMPLE RECOVERY (ft)	USCS CODE	SOIL DESCRIPTION SOIL NAME, USCS SYMBOL, COLOR, PERCENT COMPOSITION, GRADING, GRAIN SHAPE, MINERALOGY, DENSITY/CONSISTENCY, STRUCTURE, MOISTURE.	COMMENTS DRILLING OBSERVATIONS AND OPERATIONS, DAILY START AND END TIMES , DRILL RATE, REFUSALS, SAMPLING AND TESTING NOTES.
			6	SP/SM	**SAND (SP/SM)** - dk greyish brn (10YR4/2), 0% gravel, 90% subang to subrnd sand, 10% fines, poorly graded, wet	
75				SM	**SAND (SM)** - brn (10YR4/3), 5% subang gravel up to 5cm, 75% sand, 20% fines, mostly met gravel, poorly graded, moist	
80			7		- 15% gravel up to 10cm, 70% sand, 15% fines	
85						
90			10	ML	**SILT (ML)** dk brn (7.5YR3/4), 10% ang to subang gravel up to 5cm, 15% sand, 75% fines, mostly met gravel, slightly moist	
95					- 20% gravel up to 10cm, 10% sand, 70% fines	
100			10		- 10% gravel up to 4cm, 15% sand, 75% fines	
105					- 10% gravel up to 5cm, 15% sand, 75% fines	

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SHEET 4 of 4	**PROJECT NUMBER:** 326128.01.16.EN	**BORING NUMBER:** *MW-51*

SOIL BORING LOG

PROJECT NAME: IMPM Drill Program		**HOLE DEPTH (ft):** 114.0	**DRILLING CONTRACTOR:**	
SURFACE ELEVATION: 496.8 ft. MSL	**NORTHING (CCS NAD 27 Z 5):** 2,101,900.11	**EASTING (CCS NAD 27 Z 5):** 7,615,807.51	**DATE STARTED:** 3/31/2004	**DATE COMPLETED:**
DRILLING METHOD:			**DRILLING EQUIPMENT:**	
LOCATION: PG&E Compressor Station - Flood Plain, Topock, California			**LOGGED BY:** R. Tweidt / A. Brewster	

DEPTH BGS (feet)	SAMPLE INTERVAL	SAMPLE TYPE/ NUMBER	SAMPLE RECOVERY (ft)	USCS CODE	SOIL DESCRIPTION SOIL NAME, USCS SYMBOL, COLOR, PERCENT COMPOSITION, GRADING, GRAIN SHAPE, MINERALOGY, DENSITY/CONSISTENCY, STRUCTURE, MOISTURE.	COMMENTS DRILLING OBSERVATIONS AND OPERATIONS, DAILY START AND END TIMES , DRILL RATE, REFUSALS, SAMPLING AND TESTING NOTES.
					SILT (ML) dk brn (7.5YR3/4), 10% ang to subang gravel up to 5cm, 15% sand, 75% fines, mostly met gravel, slightly moist	
				ML	**SANDY SILT (ML)** - dk reddish brn (2.5YR 53/3), 10% ang to subang gravel up to 4cm, 40% sand, 50% fines, mostly met gravel, well graded, saturated	
110			7	ML	**SILT (ML)** - dk reddish brn (2.5YR3/3), 20% gravel, 20% sand, 60% fines, presence of highly weathered clasts to clay	
				BR	**MIOCENE CONGLOMERATE (BR)**	
					Boring Terminated at 114 ft	

ABBREVIATIONS

cc = continuous core run
brn = brown
lt = light
dk = dark
vf = very fine-grained
f = fine-grained
m = medium-grained
c = coarse-grained
vc = very coarse-grained
ang = angular
subang = subangular
subrnd = subrounded
rnd = rounded
br = bedrock formation
ss = sandstone
conglom = conglomerate
comptd = compacted
qtz = quartz

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