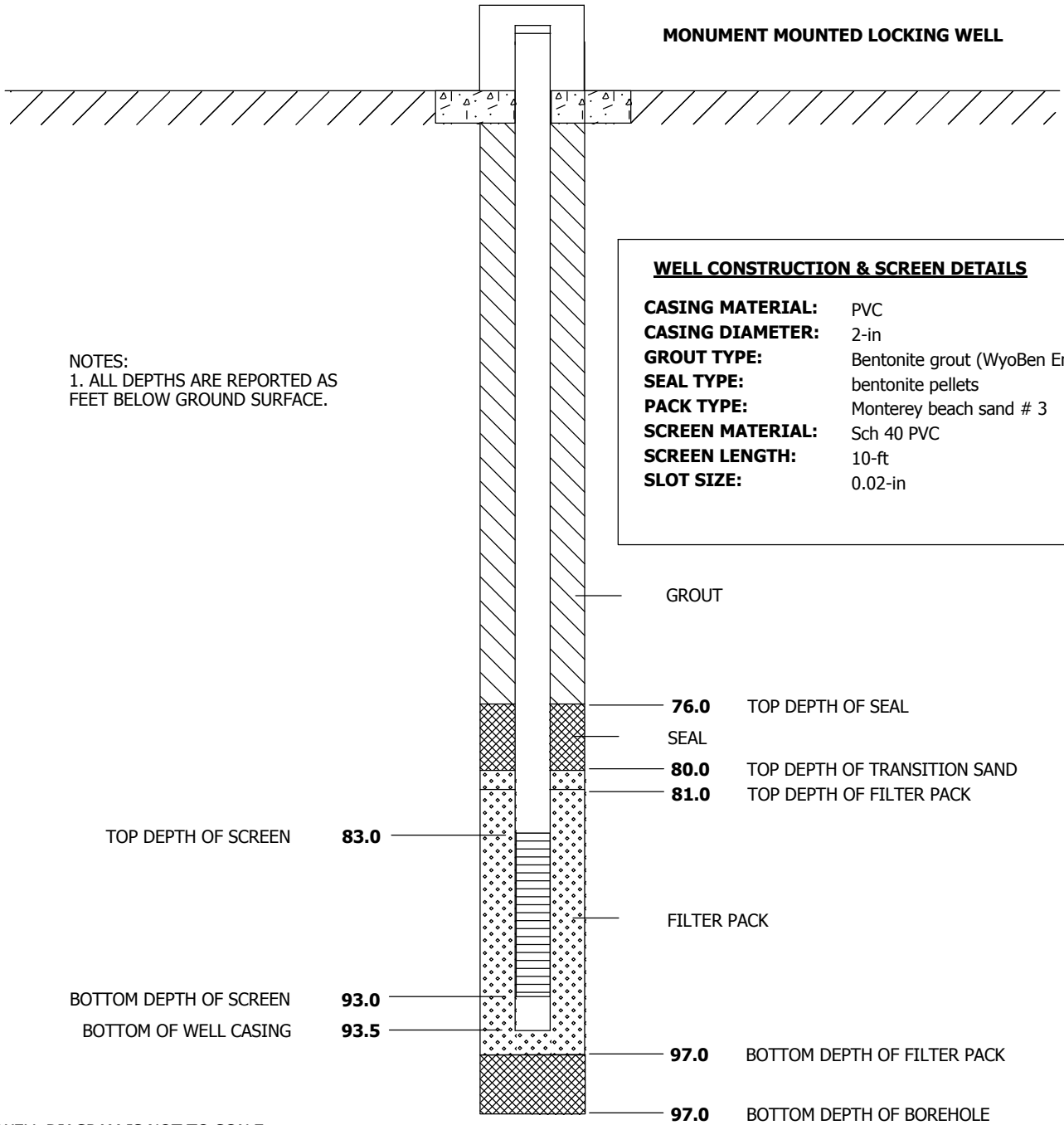
WELL COMPLETION DIAGRAM

PROJECT NO: 326128.01.16.EN	**PROJECT:** IMPM Drill Program	**WELL NO:** ***MW-45-95***

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

DRILLING CONTRACTOR: Prosonic (Denzel Roberts = Driller)	**DRILLING START DATE:** 2/13/2006
DRILLING METHOD: Rotosonic	**DRILLING END DATE:** 2/15/2006
LOGGER: Rob Tweidt	**WELL COMPLETION DATE:** 2/15/2006
TOP OF WELL CASING (NGVD 29): 470.03	**NORTHING COORDINATE (CCS DAND 27, ZONE 5):** 2102559.75
GROUND SURFACE ELEVATION (NGVD 29): 466.63	**EASTING COORDINATE (CCS NAD 27 ZONE 5):** 7616358.13



WELL DIAGRAM IS NOT TO SCALE

CH2MHILL

SHEET 1 of 4	**PROJECT NUMBER:** 326128.01.16.EN	**BORING NUMBER:** *MW-45*

SOIL BORING LOG

PROJECT NAME: IMPM Drill Program		**HOLE DEPTH (ft):** 97.0	**DRILLING CONTRACTOR:** Prosonic Corp. Phoenix, AZ	
SURFACE ELEVATION: 466.6 ft. MSL	**NORTHING (CCS NAD 27 Z 5):** 2,102,559.75	**EASTING (CCS NAD 27 Z 5):** 7,616,358.13	**DATE STARTED:** 2/13/2006	**DATE COMPLETED:** 2/15/2006
DRILLING METHOD: Rotosonic			**DRILLING EQUIPMENT:** Sonic AT (track mounted)	
LOCATION: PG&E Compressor Station - Flood Plain, Topock, California			**LOGGED BY:** R. Tweidt	

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				SM	**SILTY SAND (SM)** - very pale brn (10YR7/4), 85% mostly f sand, 15% silt, <2% gravel, well sorted, non-plastic, dry, no odor	
10						
15						
20				SP	**SAND (SP)** - brn (10YR4/3), 95% mostly f to m sand, 5% silt, <2% gravel, well sorted, non-plastic, no odor	
25					- grades finer, increased (10% silt), f sand,	
30					- coarsening downward, mostly f to m sand, 5% silt	
35						

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					SAND (SP) - brn (10YR4/3), 95% mostly f to m sand, 5% silt, <2% gravel, well sorted, non-plastic, no odor	
					- black organic specks, sand fining, mostly f sand	
40					- coarsening downward, 60% med sand, 35% f sand, 5% silt, and black organic specks	
					- f sand w/ clayey silt, very dk grayish brn (10YR3/2)	
45						
				SW/GW	**GRAVELLY SAND/ SANDY GRAVEL (SW/GW)** - dk grayish brn (10yr4/2), 70% m sand, <5% silt, 5% gravel, poorly sorted, subrnd to rnd up to 8 cm, non-plastic, wet, no odor	
					SAND (SP) - dk yellowish brn (10YR 4/4), 95% mostly f to m sand, <2% f gravel, well sorted, subrnd to rnd up to 2 cm, wet, no odor, abundant black organic specks	
50					- mostly m sand, 5% gravel	
55						
					- 15% gravel, rnd to subrnd up to 5 cm	
60					- layer of clayey silt with f sand, brown (7.5YR4/3) - fining downward, 5% mostly f gravel up to 1.5 cm	
					- layer of silty clay with sand	
65				SP		
					- 90% mostly m sand, 5% silt, 5% gravel	
70						

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75					**SAND (SP)** - dk yellowish brn (10YR 4/4), 95% mostly f to m sand, <2% f gravel, well sorted, subrnd to rnd up to 2 cm, wet, no odor, abundant black organic specks	
80					- slity clay lenses intermittent with sand, dk yellowish brn (10YR3/4),	
85					- increased gravel (15%) up to 5 cm	
90				ML	**SANDY SILT (ML)** - yellowish brn (10YR 5/4), 30% mostly c to m sand, 70% silt, 0% gravel - coarse river gravel deposit	
95					- color change to dr reddish brn (5YR3/3), f grained sand, gravel up to 5cm rnd to subrnd	
				GW	**SANDY GRAVEL (GW)** - brn (10YR4/3), 25% c to m grained sand, 15% silt, 60% gravel, poorly sorted, rnd to subrnd up to 10 cm, low plasticity, wet, no odor	
				BR	**Miocene Conglomerate (BR)** - top 0.5' to 1.0' weathered - BR is competent	
					Boring Terminated at 97 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

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					vc = very coarse-grained *ang = angular* *subang = subangular* *subrnd = subrounded* *rnd = rounded* *br = bedrock formation* *ss = sandstone* *conglom = conglomerate* *comptd = compacted* *qtz = quartz*	