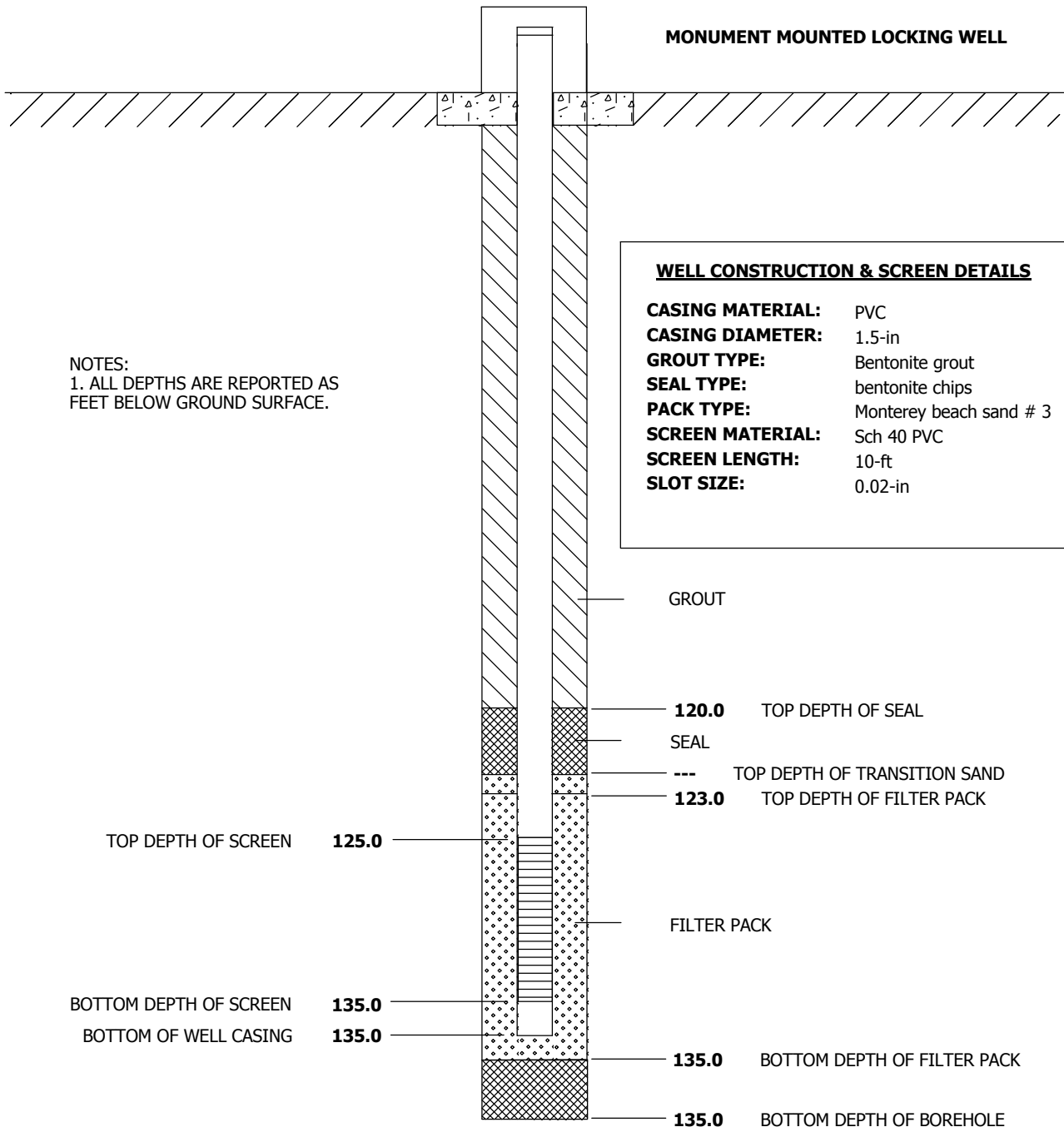


WELL COMPLETION DIAGRAM

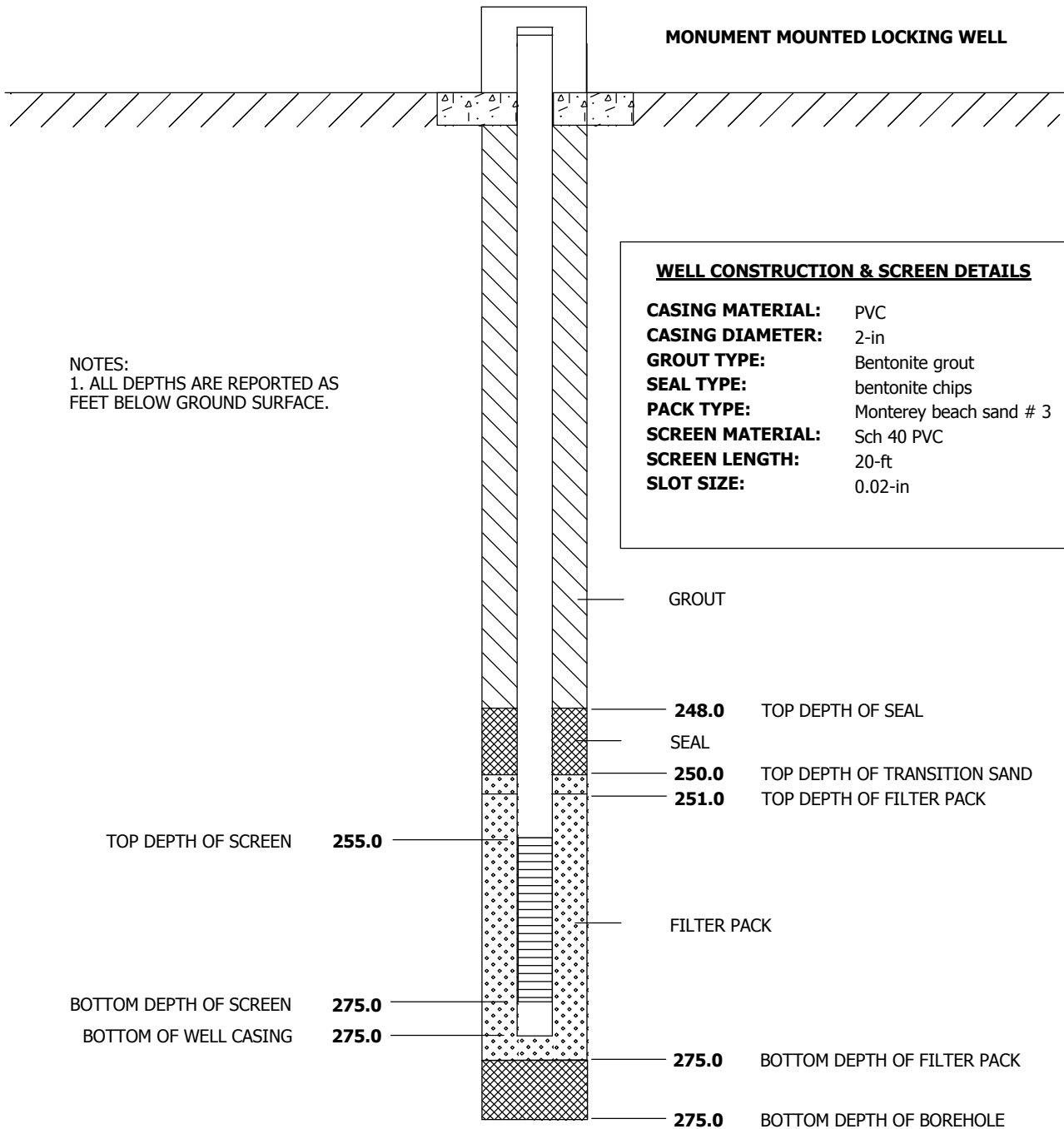
PROJECT NO: 326128.01.16.EN	PROJECT: IMPM Drill Program	WELL NO: <i>MW-49-135</i>
LOCATION: PG&E Compressor Station - Flood Plain, Topock, California		
DRILLING CONTRACTOR: Prosonic (Perry Hormann = Driller)	DRILLING START DATE: 3/12/2006	
DRILLING METHOD: Rotosonic	DRILLING END DATE: 4/4/2006	
LOGGER: K. Ebel / L. Kelly	WELL COMPLETION DATE: 4/7/2006	
TOP OF WELL CASING (NGVD 29): 484.56	NORTHING COORDINATE (CCS DAND 27, ZONE 5): 2103667.53	
GROUND SURFACE ELEVATION (NGVD 29): 482.57	EASTING COORDINATE (CCS NAD 27 ZONE 5): 7615889.63	



WELL DIAGRAM IS NOT TO SCALE

WELL COMPLETION DIAGRAM

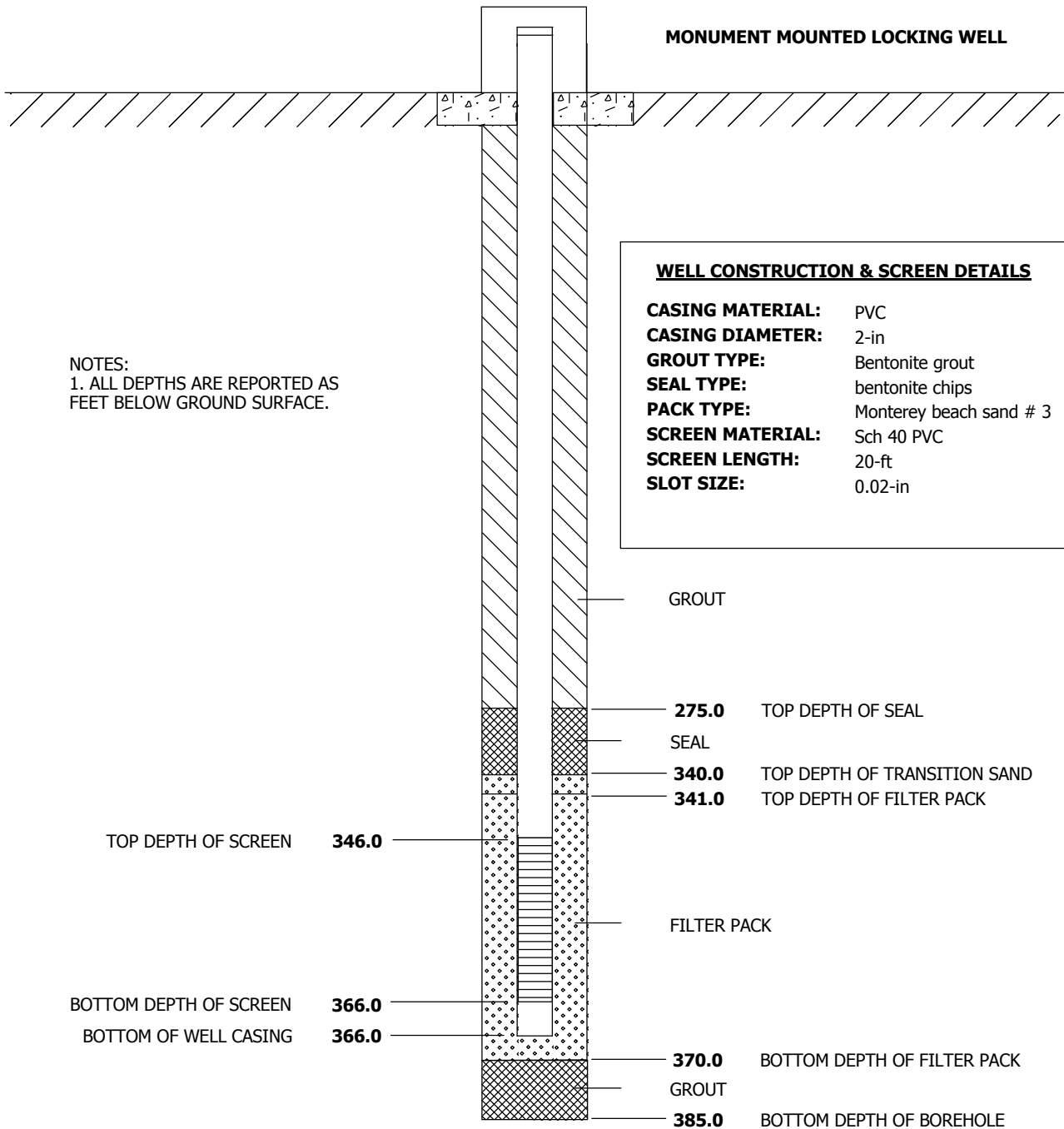
PROJECT NO: 326128.01.16.EN	PROJECT: IMPM Drill Program	WELL NO: <i>MW-49-275</i>
LOCATION: PG&E Compressor Station - Flood Plain, Topock, California		
DRILLING CONTRACTOR: Prosonic (Perry Hormann = Driller)	DRILLING START DATE: 3/12/2006	
DRILLING METHOD: Rotosonic	DRILLING END DATE: 4/4/2006	
LOGGER: K. Ebel / L. Kelly	WELL COMPLETION DATE: 4/7/2006	
TOP OF WELL CASING (NGVD 29): 484.56	NORTHING COORDINATE (CCS DAND 27, ZONE 5): 2103667.52	
GROUND SURFACE ELEVATION (NGVD 29): 482.57	EASTING COORDINATE (CCS NAD 27 ZONE 5): 7615889.88	



WELL DIAGRAM IS NOT TO SCALE

WELL COMPLETION DIAGRAM

PROJECT NO: 326128.01.16.EN	PROJECT: IMPM Drill Program	WELL NO: <i>MW-49-365</i>
LOCATION: PG&E Compressor Station - Flood Plain, Topock, California		
DRILLING CONTRACTOR: Prosonic (Perry Hormann = Driller)	DRILLING START DATE: 3/12/2006	
DRILLING METHOD: Rotosonic	DRILLING END DATE: 4/4/2006	
LOGGER: K. Ebel / L. Kelly	WELL COMPLETION DATE: 4/7/2006	
TOP OF WELL CASING (NGVD 29): 484.56	NORTHING COORDINATE (CCS DAND 27, ZONE 5): 2103667.25	
GROUND SURFACE ELEVATION (NGVD 29): 482.57	EASTING COORDINATE (CCS NAD 27 ZONE 5): 7615889.83	



WELL DIAGRAM IS NOT TO SCALE

SOIL BORING LOG

PROJECT NAME: IMPM Drill Program		HOLE DEPTH (ft): 385.0	DRILLING CONTRACTOR: Prosonic Corp. Phoenix, AZ	
SURFACE ELEVATION: 482.5 ft. MSL	NORTHING (CCS NAD 27 Z 5): 2,103,667.51	EASTING (CCS NAD 27 Z 5): 7,615,889.90	DATE STARTED: 3/12/2006	DATE COMPLETED: 3/22/2006
DRILLING METHOD: Rotosonic			DRILLING EQUIPMENT: Track Mounted Rotosonic	
LOCATION: PG&E Compressor Station - Flood Plain, Topock, California			LOGGED BY: K. Ebel / L. Kelly	

DEPTH BGS (feet)	SAMPLE			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.
	INTERVAL	TYPE/NUMBER	RECOVERY (ft)			
5				SP	<p>POORLY GRADED SAND (SP) - lt reddish brn (5YR6/3), 0% gravel, 98% vf to f mostly quartz sand with some Fe staining, 2% fines, small mm fraction, loose, moist</p> <p>- grades finer, mostly vf sand, 0% gravel, 95% sand, 5% fines, micaceous minerals, dry</p>	No core, only slough
10						
15						
20						
25						
30				SM	<p>SILTY SAND (SM) - yellowish brn (10YR4/4), 0% gravel, 80% f subrnd sand with silt fraction, 20% fines, moist</p> <p>- very clayey lens, 0% gravel, 55% sand, 45% fines</p> <p>- clay nodules are larger & harder, (0, 70, 30)</p>	
35						

SOIL BORING LOG

PROJECT NAME: IMPM Drill Program		HOLE DEPTH (ft): 385.0	DRILLING CONTRACTOR: Prosonic Corp. Phoenix, AZ	
SURFACE ELEVATION: 482.5 ft. MSL	NORTHING (CCS NAD 27 Z 5): 2,103,667.51	EASTING (CCS NAD 27 Z 5): 7,615,889.90	DATE STARTED: 3/12/2006	DATE COMPLETED: 3/22/2006
DRILLING METHOD: Rotosonic			DRILLING EQUIPMENT: Track Mounted Rotosonic	
LOCATION: PG&E Compressor Station - Flood Plain, Topock, California			LOGGED BY: K. Ebel / L. Kelly	

DEPTH BGS (feet)	SAMPLE			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.
	INTERVAL	TYPE/ NUMBER	RECOVERY (ft)			
40				CL	CLAY w/ SAND (CL) - brn (10YR4/3), 0% gravel, 5% sand, 95% fines, low hardness, m plasticity, mostly clay	
				SM	SILTY SAND (SM) - brn (10YR4/3) 0% gravel, 75% f subrnd to rnd mostly quartz sand, 25% fines, m density, moist.	
				ML	SILT w/ SAND (SM) - brn (10YR4/3), 0% gravel, 15% sand, 85% silt, m density, low plasticity, moist to sat	
45				SM	SILTY SAND (SM) - brn (10YR4/4), 0% gravel, 80% sand, 20% silt w/subang - rnd 3 inches in density - 6cm v hard siltstone gravel, cemented - 3" silt - very high dilatency, saturated - 3" clay with silt, gravel up to 2cm - f sand (0.75,15) - mottled brown/blk sand	
				ML	SILT w/ SAND (ML) - brn (10YR4/2), 0% gravel, 9% sand, 10% silt, m density, moist	
50				SM	SAND w/ SILT (SM) - yellowish brn (10YR2/16), 30% mostly c to m sand, 70% silt, 0% gravel - clay lens 10,25,75 - saturated v high dilatency w/sand	
				SM	- sand	
55				GW	SANDY GRAVEL W/SILT (SW/GW) - drk brn (10yr4/4), 50% m sand, 40% silt, 01% gravel, subrnd gravel up to 8 cm, mostly met or limestone? subang orange m-c sand, met loose, wet	
				ML	SILTY GRAVELLY SILT (ML) - drk yellowish brn (10YR4/4), 15% sand, 20% silt, 60% sand, well graded, subang up to 2cm, density, wet	
60						
65						
70						



SOIL BORING LOG

PROJECT NAME: IMPM Drill Program		HOLE DEPTH (ft): 385.0	DRILLING CONTRACTOR: Prosonic Corp. Phoenix, AZ	
SURFACE ELEVATION: 482.5 ft. MSL	NORTHING (CCS NAD 27 Z 5): 2,103,667.51	EASTING (CCS NAD 27 Z 5): 7,615,889.90	DATE STARTED: 3/12/2006	DATE COMPLETED: 3/22/2006
DRILLING METHOD: Rotosonic			DRILLING EQUIPMENT: Track Mounted Rotosonic	
LOCATION: PG&E Compressor Station - Flood Plain, Topock, California			LOGGED BY: K. Ebel / L. Kelly	

DEPTH BGS (feet)	SAMPLE			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.
	INTERVAL	TYPE/ NUMBER	RECOVERY (ft)			
75				GM	SILT SANDY GRAVEL (GM) - drk yellowish brn (10YR4/3, 50% gravel, 35% sand, 15% sand, subrd-subang, mostly m-c gravel subrnd-subang met, up to 7cm, loose wet - gravel mostly subrnd	Drilling Rate Slows
80				GW	SANDY GRAVEL (GW) - yellowish brn (10YR5/4), 65% m sand, 30% silt, 5% gravel subnrg, sand mostly c, subrnd-subang only silt - gravel up to 8 cm - gravel (c sandstone) lt cm	
85				ML	SANDY GRAVELLY SILT (ML) - yellowish brn (10YR5/4), 35% sand, 30% silt, 45% subng met gravel up to 4 cm, subrnd-subang m-c sand, v. soft, saturated	
90				GW	SANDY GRAVEL (GW) - greyish brn (10YR4/2), 30% sand, 68% silt, 2% gravel, subng met, f gravel up to 2 cm and vc sand, well graded, most n, 5 cm 100% wet - minor clay (85,10,5) gravel, coarsens up to to 9 cm, some silt nodules	
95				SW	GRAVELLY SAND (SM) - greyish brn (10R4/2) 30% sand, 68% silt 2% gravel silt subrnd-subang gravel up to 3 cm, sand m-c, met - almost no gravel, (5,85,10) sand f-c	
100				GM	SANDY SILTY GRAVEL (GM) - brn (10YR4/3), 55% subang gravel up to 6cm, 25% subang to subrnd f to c sand, 20% fines, met and some alteration, loose, wet - 3 core barrel (8") 55 clasts	
105						



SOIL BORING LOG

PROJECT NAME: IMPM Drill Program		HOLE DEPTH (ft): 385.0	DRILLING CONTRACTOR: Prosonic Corp. Phoenix, AZ	
SURFACE ELEVATION: 482.5 ft. MSL	NORTHING (CCS NAD 27 Z 5): 2,103,667.51	EASTING (CCS NAD 27 Z 5): 7,615,889.90	DATE STARTED: 3/12/2006	DATE COMPLETED: 3/22/2006
DRILLING METHOD: Rotasonic			DRILLING EQUIPMENT: Track Mounted Rotasonic	
LOCATION: PG&E Compressor Station - Flood Plain, Topock, California			LOGGED BY: K. Ebel / L. Kelly	

DEPTH BGS (feet)	SAMPLE			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.
	INTERVAL	TYPE/ NUMBER	RECOVERY (ft)			
110					SANDY SILTY GRAVEL (GM) - brn (10YR4/3), 55% subang gravel up to 6cm, 25% subang to subrnd f to c sand, 20% fines, met and some alteration, loose, wet - poor sample quality due to several attempts to recover core	Poor core recovery due to several attempts to recover core
				SW	WELL GRADED SAND (SW) - yellowish brn (10YR5/4), 5% rnd to subrnd gravel up to 1.5cm, 95% f to c sand, 0% fines, ig/met/sed mix, locally more gravel, % gravel increases w/depth, loose, wet	
115				SP	POORLY GRADED SAND w/ GRAVEL (SP) - yellowish brn (10YR5/4), 40% rnd to subrnd f to c gravel up to 4.5cm, 60% m to c sand, 0% fines, ig/met mix, minor alteration, loose, wet	
120				GW	WELL GRADED GRAVEL w/ SAND (GW) - yellowish brn (10YR5/4), 85% subang to subrnd f to c gravel up to 7.5cm, 15% f to c sand, 0% fines, coarse gravel w/depth, ig/met/sed mix, minor alteration, loose, wet	
				GW	GRAVEL w/ SAND (GW) - dr yellowish brn (10YR4/4), 75% subrnd to subang gravel, 20% sand, 5% fines, cobbles up to 12 cm, met/sed/ig mix, loose, wet	
125				GW	GRAVEL w/ SAND (GW) - yellowish brn (10YR5/4), 60% f to c gravel up to 6cm, 40% f to c sand, 0% fines, mostly ig/met, loose, wet - poor sample quality due to attempts to recover core	
130				GM	SILTY SAND w/ GRAVEL - brn (10YR4/3), 45% subang to subrnd f to c gravel up to 4cm, 35% f to c sand, 20% fines, ig to mostly met gravel, some chloritic alteration, fines clay in part, loose to poorly consolidated, wet	
135				SW	WELL GRADED SAND (SW) - dk yellowish brn (10YR4/4), 5% subang to subrnd gravel up to 2cm, 95% f to c sand, 0% fines, met/sed mix, locally more gravel, % gravel increases w/depth, loose, wet	
				GW	WELL GRADED GRAVEL w/ SAND (GW) - yellowish brn (10YR5/4), 85% subrnd to subang f to c gravel up to 3cm, 15% f to c sand, 0% fines, loose, wet	
140				SM	SILTY SAND w/ GRAVEL (SM) - brn (7.5YR4/4), 25% subang to subrnd gravel up to 3cm, 45% f to c sand, 30% fines, mostly met, low plasticity, poor to mod consolidated	



SOIL BORING LOG

PROJECT NAME: IMPM Drill Program		HOLE DEPTH (ft): 385.0	DRILLING CONTRACTOR: Prosonic Corp. Phoenix, AZ	
SURFACE ELEVATION: 482.5 ft. MSL	NORTHING (CCS NAD 27 Z 5): 2,103,667.51	EASTING (CCS NAD 27 Z 5): 7,615,889.90	DATE STARTED: 3/12/2006	DATE COMPLETED: 3/22/2006
DRILLING METHOD: Rotosonic			DRILLING EQUIPMENT: Track Mounted Rotosonic	
LOCATION: PG&E Compressor Station - Flood Plain, Topock, California			LOGGED BY: K. Ebel / L. Kelly	

DEPTH BGS (feet)	SAMPLE			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.
	INTERVAL	TYPE/NUMBER	RECOVERY (ft)			
145				GM	SILTY GRAVEL w/ SAND (GM) - reddish brn (5YR4/4), 55% f to c subang to subrnd gravel up to 7.5cm, 20% sand, 25% fines, mostly met, some chloritic alteration, low plasticity, poorly consolidated, wet	Good sample quality
				SM	SILTY SAND (SM) - brn (7.5YR4/4), 10% f gravel, 50% f to c sand, 40% fines, mostly met, low plasticity, poor to mod consolidated, moist to wet	
150				SM	GRAVELLY SAND (SM) - drk yellowish brn (10R4/4) 40% sand, 50% silt 10% gravel silt mc sand, gravel up to 3 cm, modtly ig. some met subang wet	Drilling Rate Slow = 0.5' /min
				GM	SANDY GRAVEL (GM) - drk yellowish brn (10YR4/4), 45% sand, 40% silt, 15% sand, subang subrnd gravel up to 5 cm, subrnd-subang m-c sand, ig. and met, loose, wet	
155				SM	GRAVELLY SAND (SM) - drk yellowish brn (10R4/4) 20% sand, 65%, 15% silt subang f gravel up to 2 cm, subrnd-subang mc sand, ig & met loose, wet	Drilling Rate = 2' /min
				SM	GRAVELLY SILTY SAND (SM) - reddish brn (5YR4/3), 35% sand, 45% silt, 20% gravel, subang gravel up to 4 cm, well graded for subrnd-subang sand, mostly met, some ig & sed, dark in parts, moist - dr greyish brn (10YR4/2), (25,70,15), more sed. gravels	
165				GM	SANDY GRAVEL w/ SILT (GM) - brn (7.5Yr5/4), 60% sand, 20% silt, 20% subang f gravel up tp 3 cm, m-c subang sand, mostly met, some ig & sed, loose, wet	
				SM	SILTY SAND w/ GRAVEL (SM) brn (7.5/yr4/4 - 10% sand, 70% gravel, 20% sand subrnd-subang met gravel, up t 2 cm - well graded f sand, density moist	
170					GRAVELLY SAND (SM) - brn (7.5YR4/3) 20% sand, 60% 15% subrnd subang met & ig f grave up to 5 cm. subrnd-subang m-c sand, loose, wet - brn 7.5yr4/2 (15,80,5), sand mostly poorly graded m. sand	
					- brn (7.5yr4/4), (25,60,15), siltier gravel up to 7 cm, ig & met	
175						

SOIL BORING LOG

PROJECT NAME: IMPM Drill Program		HOLE DEPTH (ft): 385.0	DRILLING CONTRACTOR: Prosonic Corp. Phoenix, AZ	
SURFACE ELEVATION: 482.5 ft. MSL	NORTHING (CCS NAD 27 Z 5): 2,103,667.51	EASTING (CCS NAD 27 Z 5): 7,615,889.90	DATE STARTED: 3/12/2006	DATE COMPLETED: 3/22/2006
DRILLING METHOD: Rotosonic			DRILLING EQUIPMENT: Track Mounted Rotosonic	
LOCATION: PG&E Compressor Station - Flood Plain, Topock, California			LOGGED BY: K. Ebel / L. Kelly	

DEPTH BGS (feet)	SAMPLE			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.
	INTERVAL	TYPE/NUMBER	RECOVERY (ft)			
180				SM	<p>GRAVELLY SAND (SM) - brn (7.5YR4/3) 20% sand, 60% 15% subrnd subang met & ig f grave up to 5 cm. subrnd-subang m-c sand, loose, wet</p> <p>- reddish brn (5YR4/3), (35,45,20)</p> <p>- saturated, (33,35,30), gravel up to 8 cm</p> <p>- gravel up to 15 cm</p>	Driller says hole is soupy
185					- sandier, (20,55,25)	
190						
195					SM	
200					<p>GRAVELLY SILTY SAND (SM) - greyish brn (10R4/2) 35% sand, 40% silt 25% subrnd-subang met, altered and weathered gravel up to 4 cm, v f-c subang sand, m m dense clast separated, moist</p> <p>- brn (7.5YR4/4), (20,50,30), met gravel up to 3 cm</p>	
205					- sand (30,55,25), sand mostly met, gravel finer up to 2cm	
210						

SOIL BORING LOG

PROJECT NAME: IMPM Drill Program		HOLE DEPTH (ft): 385.0	DRILLING CONTRACTOR: Prosonic Corp. Phoenix, AZ	
SURFACE ELEVATION: 482.5 ft. MSL	NORTHING (CCS NAD 27 Z 5): 2,103,667.51	EASTING (CCS NAD 27 Z 5): 7,615,889.90	DATE STARTED: 3/12/2006	DATE COMPLETED: 3/22/2006
DRILLING METHOD: Rotosonic			DRILLING EQUIPMENT: Track Mounted Rotosonic	
LOCATION: PG&E Compressor Station - Flood Plain, Topock, California			LOGGED BY: K. Ebel / L. Kelly	

DEPTH BGS (feet)	SAMPLE			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.
	INTERVAL	TYPE/NUMBER	RECOVERY (ft)			
215				SM	<p>GRAVELLY SILTY SAND (SM) - greyish brn (10R4/2) 35% sand, 40% silt 25% subrnd-subang met, altered and weathered gravel up to 4 cm, v f-c subang sand,m m dense clast separated, moist</p> <p>- sand (20,45,35), siltier, gravel up to 5 cm</p>	<p>Stop drilling for the day (03/23/06)</p> <p>Drilling Rate = 1' /min</p>
220					<p>- dk brn (7YR3/4), (25,45,30), subrnd-subang met gravel up to 6 cm</p>	
225					<p>- br (7.5YR4/2), (15,70,15), subang gravel up to 2 cm</p> <p>- dk reddish brn (5YR3/4), (30,40,30), subrnd-subang, gravel up to 2 cm</p>	
230				SP	<p>POORLY GRADED SAND (SP) - reddish brn (5YR4/3), 5% sand, 93% silt 2% gravel wet m subrnd-subang met sand minor gravel to 6</p> <p>GRAVELLY SILTY SAND (SM) - reddish brn (5YR4/4), 30% subrnd to subang ig/met gravel up to 3cm, 45% f to c subrnd to subang sand, 25% silt, med density, moist</p>	
235					<p>- (40, 45,15), mostly met</p>	<p>Fast Drilling Rate</p>
240				SM	<p>- (15,55,30), mostly ig</p>	
245					<p>- (40,40,20), mixed met, dk reddish brn (5YR3/3), mostly f gravel up to 6cm</p>	

SOIL BORING LOG

PROJECT NAME: IMPM Drill Program		HOLE DEPTH (ft): 385.0	DRILLING CONTRACTOR: Prosonic Corp. Phoenix, AZ	
SURFACE ELEVATION: 482.5 ft. MSL	NORTHING (CCS NAD 27 Z 5): 2,103,667.51	EASTING (CCS NAD 27 Z 5): 7,615,889.90	DATE STARTED: 3/12/2006	DATE COMPLETED: 3/22/2006
DRILLING METHOD: Rotosonic			DRILLING EQUIPMENT: Track Mounted Rotosonic	
LOCATION: PG&E Compressor Station - Flood Plain, Topock, California			LOGGED BY: K. Ebel / L. Kelly	

DEPTH BGS (feet)	SAMPLE			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.
	INTERVAL	TYPE/ NUMBER	RECOVERY (ft)			
250					GRAVELLY SILTY SAND (SM) - reddish brn (5YR4/4), 30% subrnd to subang ig/met gravel up to 3cm, 45% f to c subrnd to subang sand, 25% silt, med density, moist - (20,50,30), mostly met, increasing silt, gravel up to 4 cm - (20,85,5), poorly graded, m-c sand, gravel up to 2 cm, loose	
255				SW	WELL GRADED SAND w/ GRAVEL (GW) - reddish brn 5YR4/4, 30% f ang to subrnd gravel up to 2.5cm, 65% f to c sand, 5% silt, gravel mostly met, minor alteration, mod to very calcareous, saturated	Stop drilling for the day (03/24/06)
260				GW	WELL GRADED GRAVEL w/ SAND (GW) - reddish brn (5YR4/4), 50% ang to subrnd f to c gravel up to 6.5cm, 45% f to c sand, 5% fines, gravel mostly met, some alteration, mod to very calcareous, loose, wet - 65% gravel up to 11cm, 30% sand, 5% fines, mostly met - 55% gravel up to 8cm, 35% sand, 10% fines, clayey in part, locally minor gravel, mostly met, very strong alteration	
265				SM	SILTY SAND w/ GRAVEL (SM) - brn (5YR4/4), 30% subang to subrnd f gravel up to 3.5cm, 55% f to c sand, 15% fines, mostly met, very calcareous, loose to poorly consolidated, wet	
				SM	SILTY SAND (SM) - reddish brn (5YR4/4), 5% subang to rnd f gravel, 80% f to c sand, 15% silt, fines clayey in part, gravel mostly met, very calcareous, loose to poorly consolidated, wet	
270				GM	SILTY GRAVEL w/ SAND (GM) - reddish brn (5YR4/4), 60% subang to subrnd f gravel up to 2.5cm, 30% f to c sand, 10% fines, mostly met gravel, fines clayey in part, mod calcareous, low plasticity, loose to poorly consolidated, wet	
				GM	SILTY GRAVEL w/ SAND (GM) - dk reddish brn (2.5YR3/3), 65% f to c subang to subrnd gravel up to 7cm, 20% f to c sand, 15% fines, fines clayey in part, gravel mostly met, mod calcareous, low plasticity, loose to poorly consolidated, wet	
275				SW	WELL GRADED SAND (SW) - reddish brn (5YR4/4), 10% subrnd to subang f gravel up to 2cm, 85% f to c sand, 5% fines, gravel mostly met, mod calcareous, loose, wet	
				SW	SILTY SAND w/ GRAVEL (SW) - reddish brn (5YR4/4), 35% subang to subrnd f to c gravel up to 4cm, 45% f to c sand, 20% fines, fines clayey in part, gravel mostly met, poorly consolidated, wet	
280						



SOIL BORING LOG

PROJECT NAME: IMPM Drill Program		HOLE DEPTH (ft): 385.0	DRILLING CONTRACTOR: Prosonic Corp. Phoenix, AZ	
SURFACE ELEVATION: 482.5 ft. MSL	NORTHING (CCS NAD 27 Z 5): 2,103,667.51	EASTING (CCS NAD 27 Z 5): 7,615,889.90	DATE STARTED: 3/12/2006	DATE COMPLETED: 3/22/2006
DRILLING METHOD: Rotosonic			DRILLING EQUIPMENT: Track Mounted Rotosonic	
LOCATION: PG&E Compressor Station - Flood Plain, Topock, California			LOGGED BY: K. Ebel / L. Kelly	

DEPTH BGS (feet)	SAMPLE			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.
	INTERVAL	TYPE/NUMBER	RECOVERY (ft)			
285				CL	CLAY w/ SAND (CL) - reddish brn (2.5YR4/3), 10% f subang to subrnd gravel up to 2cm, 20% sand, 70% fines, low hardness, m plastic fines, mostly clay, moderately consolidated, wet	Stop drilling for the day (03/25/06) Slow Drilling Rate = 0.5' to 0.75' /min Drilling Rate = 2' /min
				GC	CLAYEY GRAVEL w/ SAND (GL) - reddish brn (2.5YR4/3), 40% f to c subang to subrnd gravel up to 6cm, 35% f to c sand, 25% fines, gravel is mostly met, mod plasticity, mod to well consolidated, wet	
290				ML	SANDY SILT w/ GRAVEL (ML) - dk reddish brn (2.5YR3/3), 30% subang to subrnd gravel up to 2.5cm, 25% sand, 45% fines, very calcareous, non to low plasticity, mod to well consolidated, moist to wet	
295				SM	SILTY SAND w/ GRAVEL (SM) - reddish brn (5YR4/3), 40% subang to subrnd f to c gravel up to 4cm, 45% f to c sand, 15% fines, non to low plasticity, mostly met, very calcareous, increased fines locally, mod consolidated, moist to wet	
300				SW	SAND w/ GRAVEL (SW) - reddish brn (2.5YR4/3), 35% subang to subrnd f gravel up to 1.5cm, 60% f to c sand, 5% fines, gravel mostly met, poorly consolidated, wet	
				GW	SILTY SAND w/ GRAVEL (GW) - reddish brn (5YR4/4), 45% subang to subrnd f to c gravel up to 7.5cm, 40% f to c sand, 15% fines, mostly silt fines, mostly met gravel, very calcareous, low plasticity, porr to mod consolidated, wet	
305				SW/SM	SILTY SAND w/ GRAVEL (SW/SM) - reddish brn (2.5YR4/4), 40% subang to subrnd f to c gravel up to 2.5cm, 50% f to c sand, 10% fines, fines clayey in part, gravel mostly met, poorly consolidated, wet	
				GM	SILTY GRAVEL w/ SAND (GM) - dr reddish brn (2.5YR4/3), 45% subang to subrnd f to c gravel up to 3cm, 40% f to c sand, 15% fines, gravel is mostly met, mod calcareous	
310				SW	WELL GRADED SAND w/ GRAVEL (SW) - dk reddish brn (2.5YR4/3), 40% subang to subrnd f gravel up to 2.5cm, 55% f to c sand, 5% fines, gravel mostly met, fines clayey in part, loose, wet - 45% subang to subrnd gravel up to 5cm, 40% sand, 15% fines, gravel is mostly met	
315				GM	SILTY GRAVEL w/ SAND (GM) - dr reddish brn (2.5YR3/4), 50% subang to ang f to c gravel up to 5.5cm, 35% f to c sand, 15% fines, gravel is mostly met, fines are clayey in part, mod calcareous, poorly consolidated	



SOIL BORING LOG

PROJECT NAME: IMPM Drill Program		HOLE DEPTH (ft): 385.0	DRILLING CONTRACTOR: Prosonic Corp. Phoenix, AZ	
SURFACE ELEVATION: 482.5 ft. MSL	NORTHING (CCS NAD 27 Z 5): 2,103,667.51	EASTING (CCS NAD 27 Z 5): 7,615,889.90	DATE STARTED: 3/12/2006	DATE COMPLETED: 3/22/2006
DRILLING METHOD: Rotosonic			DRILLING EQUIPMENT: Track Mounted Rotosonic	
LOCATION: PG&E Compressor Station - Flood Plain, Topock, California			LOGGED BY: K. Ebel / L. Kelly	

DEPTH BGS (feet)	SAMPLE			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.
	INTERVAL	TYPE/NUMBER	RECOVERY (ft)			
320				SW	WELL GRADED SAND w/ GRAVEL (SW) - dk reddish brn (5YR4/3), subang to subrnd f gravel up to 6cm, f to c sand, fines, gravel mostly met, mod calcareous, loose, wet	Very Slow Drilling Rate = 0.25' to 0.4' /min Stop drilling for the day (03/26/06) Very Slow Drilling Rate = 0.25' to 0.4' /min Very Slow Drilling Rate = 0.2' to 0.4' /min Drilling Rate = 0.3' /min, no recovery first pass, second pass only 4' recovery, slough had sand & gravel
				SW	SILTY SAND w/ GRAVEL (SM) - reddish brn (5YR4/4), 30% subang to subrnd f to c gravel up to 12cm, 50% f to c sand, 20% fines, non to low plasticity, mostly met gravel, mod calcareous, stong chloritic alteration, loose to poorly consolidated, wet	
325				GW	SILTY GRAVEL w/ SAND (GM) - reddish brn (5YR4/3), 50% subang to subrnd f to c gravel up to 6cm, 35% f to c sand, 15% fines, mostly silt fines, gravel is mostly met, very calcareous, poor to mod consolidated, wet	
				SC	CLAYEY SAND w/ GRAVEL (SC) - reddish brn (5YR4/4), 30% subrnd to subang f gravel up to 4cm, 40% f to c sand, 30% fines, mostly clay fines, mod plastic, mod consolidated, moist	
330				SW	WELL GRADED SAND w/ GRAVEL (SW) - dk brn (7.5YR3/4), 25% subrnd f to c gravel up to 5cm, 70% f to c sand, 5% fines, loose, wet	
				GW	WELL GRADED GRAVEL w/ SAND (GW) - brn (7.5YR4/3), 55% subrnd to subang f to c gravel up to 5cm, 40% m to c sand, 5% fines, gravel is mostly met, loose, wet	
335				SM	SILTY SAND w/ GRAVEL (SM) - reddish brn (5YR4/4), 20% subang to subrnd f to c gravel up to 4cm, 60% f to c sand, 20% fines, non to low plasticity, mostly met gravel, mod calcareous, poor to mod consolidated, wet	
				GW	WELL GRADED GRAVEL w/ SAND (GW) - dk brn (5YR3/4), 60% ang f to c gravel up to 6cm, 35% f to c sand, 5% fines, gravel mostly met, slightly calcareous, loose, wet - locally grades into 1' beds of silty gravel with sand (GM), 60% gravel, 25% sand, 15% fines - 60% subang to subrnd gravel up to 4.5cm, 35% sand, 5% fines, gravel mostly met	
340				GW	WELL GRADED SAND w/ GRAVEL (GW) - reddish brn 5YR4/3, 75% gravel 15% sand 10% silt f-c subang gravel up to 15 cm, mostly met, few conglomerate clasts, well graded subang-subrnd met sand (f-c) mm unconsolidated, saturated	
345						
350						

SOIL BORING LOG

PROJECT NAME: IMPM Drill Program		HOLE DEPTH (ft): 385.0	DRILLING CONTRACTOR: Prosonic Corp. Phoenix, AZ	
SURFACE ELEVATION: 482.5 ft. MSL	NORTHING (CCS NAD 27 Z 5): 2,103,667.51	EASTING (CCS NAD 27 Z 5): 7,615,889.90	DATE STARTED: 3/12/2006	DATE COMPLETED: 3/22/2006
DRILLING METHOD: Rotosonic			DRILLING EQUIPMENT: Track Mounted Rotosonic	
LOCATION: PG&E Compressor Station - Flood Plain, Topock, California			LOGGED BY: K. Ebel / L. Kelly	

DEPTH BGS (feet)	SAMPLE			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.
	INTERVAL	TYPE/NUMBER	RECOVERY (ft)			
355				GW	WELL GRADED SAND W/GRAVEL (GW) - reddish brn 5YR4/3, 75% gravel 15% sand 10% silt f-c subang gravel up to 15 cm, mostly met, few conglomerate clasts, well graded subang-subrnd met sand (f-c) mm unconsolidated, saturated - avg. clast size is 2 cm - grades coarser with depth - avg. clast size is 6 cm	Harder Drilling Rate = 0.5' /min
360						
365						
370				ML	SILT WITH GRAVEL (ML) - reddish brn (5YR4/4), 15% sand, 20% gravel, 65% silt, gravel up to 2 cm, met, subang silt contains weathered met gravel and v/sand lenses, moderately consolidated, moist, some fine laminations - reddish brn (5YR4/4 (75,15,10) sand subang mostly c	Drilling Rate ~ 1' /min
375						
380				NR	NO RECOVERY	Drilling Rate = 0.1' /min
385						

Boring Terminated at 384 ft



SOIL BORING LOG

PROJECT NAME: IMPM Drill Program		HOLE DEPTH (ft): 385.0	DRILLING CONTRACTOR: Prosonic Corp. Phoenix, AZ	
SURFACE ELEVATION: 482.5 ft. MSL	NORTHING (CCS NAD 27 Z 5): 2,103,667.51	EASTING (CCS NAD 27 Z 5): 7,615,889.90	DATE STARTED: 3/12/2006	DATE COMPLETED: 3/22/2006
DRILLING METHOD: Rotosonic			DRILLING EQUIPMENT: Track Mounted Rotosonic	
LOCATION: PG&E Compressor Station - Flood Plain, Topock, California			LOGGED BY: K. Ebel / L. Kelly	

DEPTH BGS (feet)	SAMPLE			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.
	INTERVAL	TYPE/ NUMBER	RECOVERY (ft)			
					<p>ABBREVIATIONS</p> <p><i>cc = continuous core run</i></p> <p><i>brn = brown</i></p> <p><i>lt = light</i></p> <p><i>dk = dark</i></p> <p><i>vf = very fine-grained</i></p> <p><i>f = fine-grained</i></p> <p><i>m = medium-grained</i></p> <p><i>c = coarse-grained</i></p> <p><i>vc = very coarse-grained</i></p> <p><i>ang = angular</i></p> <p><i>subang = subangular</i></p> <p><i>subrnd = subrounded</i></p> <p><i>rnd = rounded</i></p> <p><i>br = bedrock formation</i></p> <p><i>ss = sandstone</i></p> <p><i>conglom = conglomerate</i></p> <p><i>comptd = compacted</i></p> <p><i>qtz = quartz</i></p>	