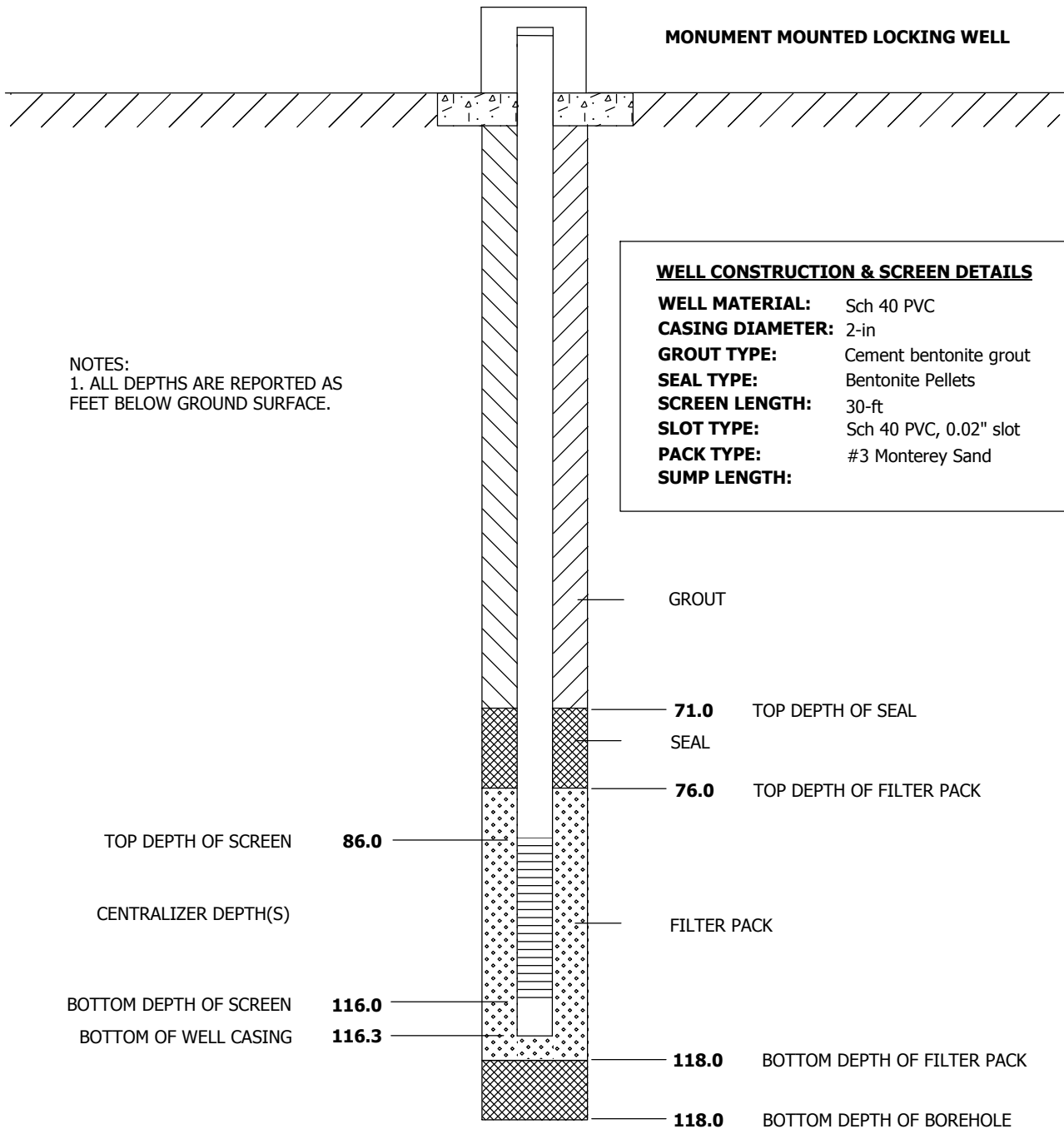


WELL COMPLETION DIAGRAM

PROJECT NO: 326128.01.07.AR	PROJECT: IM-3 Hydrogeologic Investigation, PG&E Topock	WELL NO: OW-3S
LOCATION: West Mesa, Parcel No. 650-151-06		
DRILLING CONTRACTOR: WDC Exploration & Wells, Montclair, CA		DRILLING START DATE: 10/20/2004
DRILLING METHOD: Rotosonic		DRILLING END DATE: 10/21/2004
LOGGER: T. McDonald		WELL COMPLETION DATE: 10/21/2004
TOP OF WELL CASING (NGVD 29): 558.58		NORTHING COORDINATE (CCS DAND 27, ZONE 5): 2103267.64
GROUND SURFACE ELEVATION (NGVD 29): 555.83		EASTING COORDINATE (CCS NAD 27 ZONE 5): 7612152.99



WELL DIAGRAM IS NOT TO SCALE

SOIL BORING LOG

PROJECT NAME: IM-3 Hydrogeologic Investigation, PG&E Topock		HOLE DEPTH (ft): 275.0	DRILLING CONTRACTOR: WDC Exploration & Wells, Montclair, CA	
SURFACE ELEVATION: 555.9 ft. MSL	NORTHING (CCS NAD 27 Z 5): 2,103,286.35	EASTING (CCS NAD 27 Z 5): 7,612,161.22	DATE STARTED: 09/26/2004	DATE COMPLETED: 10/07/2004
DRILLING METHOD: Rotasonic		WATER LEVEL (ft): ---	DRILLING EQUIPMENT: Standard Truck-Mounted Rig	
LOCATION: West Mesa, Parcel No. 650-151-06			LOGGED BY: T. McDonald	

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		Box 1 2 3	10	SP	<p>POORLY GRADED SAND WITH GRAVEL (SP) - yellowish brn 10YR5/4, 50% m sand, 15% c sand, 10% f sand, 10% silt, 10% f gravel, 5% c gravel, ang, loose, dry.</p>	<p>each sleeve holding slightly more than 2</p> <p>lost 2' off the bottom of core barrel while cooling</p>
10				SW		
15		Box 3 4	5	SW	<p>WELL GRADED SAND (SW) - lt olive brn 2.5YR5/3, 60% f sand, 30% m to c sand, 5% fines, 5% gravel up to 1", subang to ang.</p>	
20					<p>- increase in gravel % to ~10% from 18-20 ft</p>	
25		Box 6 7	3	SW	<p>- increase gravel % to 20% from 23-25 ft</p> <p>- metamorphic gravel</p>	
30		Box 7 8	5		ML	
35		Box 9 10	6		<p>WELL GRADED SAND WITH GRAVEL (SW) - grayish brn 2.5YR5/2, 40% f subrnd to subang sand, 30% c subrnd to subang sand, 20% ang gravel, 10% fines (silt).</p>	



SOIL BORING LOG

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DRILLING METHOD: Rotasonic		WATER LEVEL (ft): ---	DRILLING EQUIPMENT: Standard Truck-Mounted Rig	
LOCATION: West Mesa, Parcel No. 650-151-06			LOGGED BY: T. McDonald	

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	X	Box 10 11	6	SW	WELL GRADED SAND WITH GRAVEL (SW) - grayish brn 2.5YR5/2, 40% f subrnd to subang sand, 30% c subrnd to subang sand, 20% ang gravel, 10% fines (silt).		
				SW	WELL GRADED SAND (SW) - yellowish brn 10YR5/4, 60% m sand, 20% f sand, 10% c sand, 10% gravel, trace silt (1%), subang.		
45	X	Box 12	4	SW	WELL GRADED SAND WITH GRAVEL (SW) - grayish brn 2.5YR5/2, 40% f ang to subang sand, 20% m ang to subang sand, 15% c ang to subang sand, 20% ang to subang gravel, 5% silt.		
				SW	- qtz rich sand, metamorphic gravel, weathered granite		
50	X	Box 13	4	SW			
				SW			
55	X	Box 14	4	SW			
				SW			
60	X	Box 15 16 17	0	SW			lost formation too tight and had to vibrate out
				SC	CLAYEY SAND (SC) - olive brn, 60% f sand, 30% fines (silt and clay), 10% gravel.		
65	X	Box 18	4	SW	WELL GRADED SAND WITH GRAVEL (SW) - grayish brn 2.5YR5/2, 40% f ang to subang sand, 20% m ang to subang sand, 15% c ang to subang sand, 20% ang to subang gravel, 5% silt.	light brown dry loose	
				SP	- caliche layer POORLY GRADED SAND (SP) - lt olive brn, 85% f sand, 10% silt, 5% c sand, trace gravel to 2".		
70	X						

SOIL BORING LOG

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DRILLING METHOD: Rotasonic		WATER LEVEL (ft): ---	DRILLING EQUIPMENT: Standard Truck-Mounted Rig	
LOCATION: West Mesa, Parcel No. 650-151-06			LOGGED BY: T. McDonald	

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)			
				SW	WELL GRADED SAND (SW) - lt olive brn 2.5YR5/3, 35% m subang sand, 30% f subang sand, 20% c subang sand, 10% ang gravel, 5% silt. - qtz, epidote sand, metamorphic gravel	
		Box 19 20	4	SC	CLAYEY SAND (SC) - olive brn, 60% f sand, 30% fines (silt and clay), 10% gravel.	
75		Box 20 21	5		WELL GRADED SAND (SW) - grayish brn 2.5YR5/2, 30% m subang sand, 30% f subang sand, 25% c subang sand, 10% ang gravel, 5% silt. - caliche - qtz, hornblende, metamorphic gravel	
80		Box 22 23	5			
85		Box 23 24	6		- caliche at 86 ft	core barrel wafers
90		Box 25 26	6	SW	- yellowish brn 10YR5/4, 40% f subang sand, 25% c subang sand, 20% m subang sand - gneiss gravel	moisture increasing probably from running core barrel down
95						
100		Box 26 27 28	11		- lt olive brn 2.5YR5/3, 40% f subang sand, 30% m subang sand, 15% c subang sand, <1% fines - qtz, hornblende	
105						



SOIL BORING LOG

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DRILLING METHOD: Rotasonic		WATER LEVEL (ft): ---	DRILLING EQUIPMENT: Standard Truck-Mounted Rig	
LOCATION: West Mesa, Parcel No. 650-151-06			LOGGED BY: T. McDonald	

DEPTH BGS (feet)	SAMPLE			USCS CODE	SOIL DESCRIPTION	COMMENTS
	INTERVAL	TYPE/NUMBER	RECOVERY (ft)			
110					WELL GRADED SAND (SW) - grayish brn 2.5YR5/2, 30% m subang sand, 30% f subang sand, 25% c subang sand, 10% ang gravel, 5% silt. - increase in f sand % to 60%, 5% m sand, 10% c sand, 5% silt, lots of secondary caliche cementation	
115		Box 29 30 31	8			
120		Box 31 32 33	7	SC	CLAYEY SAND (SC) - olive brn 2.5YR4/3, 65% f sand, 15% clay, 10% gravel, 5% m sand, 5% c sand, silty plastic.	
125						
130		Box 33 34 35	8	SP	POORLY GRADED SAND (SP) - It olive brn 2.5YR5/3, 85% m ang to subrnd sand, 10% c ang to subrnd sand, 5% clay, trace of c ang to subrnd gravel, igneous and metamorphic gravel.	
135						
140		Box 35 36 37	16	CL	CLAY (CL) - olive brn 2.5YR4/3, 5% f sand, medium plasticity (rolls easily), soft-firm.	
				SW	WELL GRADED SAND WITH GRAVEL (SW) - It olive brn 2.5YR5/3, 40% c sand, 25% m sand, 15% c gravel, 10% clay, 10% f sand.	



SOIL BORING LOG

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	INTERVAL	TYPE/NUMBER	RECOVERY (ft)			
145				CL	SANDY CLAY (CL) - brn 10YR5/3, 15% m to c rnd to subrnd sand, trace gravel, low plasticity.	
150		Box 38 39 40 41	10	SW	WELL GRADED SAND WITH GRAVEL (SW) - brn 10YR4/3, 25% c sand, 20% m sand, 20% f gravel, 20% c gravel, 10% fines, 5% f sand, subang to subrnd. - metamorphics volcanics - increase in fines to ~15%, 15% c gravel from 150-152 ft	
155					- debris flow deposits - brn 10YR5/3, 60% c subrnd sand, 20% m subrnd sand, 15% subrnd to subang gravel, 5% f subrnd sand	
160				SC	CLAYEY SAND (SC) - brn 10YR4/3, 40% f sand, 25% clay, 20% gravel, 10% m sand, 5% c sand.	
165		Box 41	10	SW	WELL GRADED SAND WITH GRAVEL (SW) - brn 10YR4/3, 60% m sand, 15% f gravel, 10% fines, 10% c sand, 5% c gravel, subrnd to subang.	core barrel outward migration of f
170		Box 41	5	CL	SANDY CLAY (CL) - brn 10YR4/3, 75% clay, 20% sand, 5% gravel, silty plastic, wet (rolls easily when wet).	
175					NO RECOVERY	lost core to 180' casing broke

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	INTERVAL	TYPE/NUMBER	RECOVERY (ft)			
					NO RECOVERY	
180				SC	CLAYEY SAND (SC) - lt olive brn 2.5YR5/3, 20% clay, 20% f subrnd sand, 20% m subrnd sand, 20% c subrnd sand, 10% subang gravel.	f gravel: 0.19 - 0.75" (4.8 = 18 mm) e gravel 0.75" - 2.8" (19-75 mm) cobble: 2.9 - 11.8" (75 - 300 mm)
				CL	SANDY CLAY (CL) - brn 10YR5/3, 60% clay, 20% f sand, 20% gravel, silty plastic.	
185				SC	CLAYEY SAND (SC) - lt olive brn 2.5YR5/2, 40% f subrnd sand, 20% m subrnd sand, 20% clay, 10% c subrnd sand, 10% f subang gravel. - matrix supported	
190				SW	WELL GRADED SAND WITH GRAVEL (SW) - lt olive brn 2.5YR5/3, 50% m sand, 20% gravel, 10% fines, 10% c sand, 10% f sand, weakly cemented.	
195				CL	SANDY CLAY (CL) - brn 10YR5/3, 60% clay, 20% f sand, 20% ang gravel, silty plastic. - 192-194 ft : slough - meta gravels, qtz rich sands	
200		CC29	8	SM	WELL GRADED SAND WITH GRAVEL (SM) - dk greyish brn 2.5YR4/2, 30% m subang sand, 25% fines, 20% c subang sand, 10% f subang sand, 5% f to c gravel, qtz, metamorphic, moist. - same as above from 196-200 ft, 15% gravel, 10% cobble to 3"	
205				ML	SANDY SILT (ML) - dk greyish brn 2.5YR1/2, 60% silt, 30% f ang sand, 10% f ang gravel, moist.	
				GW	SANDY GRAVEL (GW) - 70% c gravel to cobble 1" to 3", 20% m ang sand, 10% clay/silt, gravel metamorphic (schist).	
210		CC30	12	SW/SM	WELL GRADED SAND WITH SILT AND GRAVEL (SW/SM) - dk greyish brn 2.5YR4/2, few mottles of brn 7.5YR4/5 (~10%), 30% m ang to subang sand, 20% c ang to subang sand, 20% clay/silt, 15% f ang to subang gravel, 10% f ang to subang sand, 5% c ang to subang gravel, gravel are primarily gneiss with occasional schist, sand is qtz, metamorphic, moist.	stop drilling, bail 25 gallons and collect water sample



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LOCATION: West Mesa, Parcel No. 650-151-06			LOGGED BY: T. McDonald	

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	INTERVAL	TYPE/NUMBER	RECOVERY (ft)			
215				ML	SANDY SILT WITH GRAVEL (ML) - dk greyish brn to brn 10YR4/2 to 4/3, 50% silt/clay, 20% f ang to subang gravel, 20% c ang to subang sand, 10% m ang to subang sand, metamorphic, predominantly gneiss, qtz/epidote metamorphic sand, moist.	top 2 ft of cc appears to be slough
220		CC31	8	SM	SILTY SAND (SM) - brn 7.5YR4/2 to 4/3, 50% c ang to subang sand, 20% silt, 10% m ang to subang sand, 10% f ang to subang sand, 10% f ang to subang gravel, metamorphic, moist to wet. - silt percentage lowers from 219-221 ft	
225				GW	WELL GRADED GRAVEL WITH SAND (GW) - dk greyish brn 10YR4/2, 65% f gravel, 20% c sand, 10% c gravel, 5% m sand, ang to slightly subang, metamorphic, wet.	sand w/silt (SM)
230		CC32	10	SM	SILTY SAND (SM) - brn 10YR5/3 to 4/3, 50% c ang to subang sand, 25% m ang to subang sand, 15% silt, 5% f ang to subang gravel, 5% c ang to subang gravel, metamorphic, wet. - 5-10% silt from 229-230ft and 234-236 ft	groundwater grab sample collected from 230-253 ft bgs
235						
240		CC33	6	ML	SANDY SILT WITH GRAVEL (ML) - brn 7.5YR4/3 to 4/4 mottling of blueish grey 5/5B and reddish brn 5YR5/4 in top one foot, 60% silt, 20% c ang to subang sand, 10% m ang to subang sand, 10% f ang to subang gravel, metamorphic, moist.	
240				ML	SILT (ML) - brn 7.5YR, 5% f sand, <5% c sand, slightly plastic, slightly sticky, very few clast of indurated silty sand, dry (baked during drilling) with few slightly moist block of unbaked native material.	collect sample at 1640 for geotech analysis collected into foil sleeve
240				ML	GRAVELLY SILT WITH SAND (ML) - brn 7.5YR4/3 to 4/4, 55% silt, 20% c ang to subang gravel, 10% f ang to subang gravel, gravel up to 6-7 cm, 10% c ang to subang sand, 5% m ang to subang sand, metamorphic, moist.	
245						

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LOCATION: West Mesa, Parcel No. 650-151-06				LOGGED BY: T. McDonald	

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				SW	<p>WELL GRADED SAND (SW) - brn 7.5YR4/3 to 5/3, 60% c ang to subang sand, 20% m ang to subang sand, 10% f ang to subang sand, 5% silt/clay, 5% f ang gravel up to 7mm, metamorphic, moist to wet.</p> <p>- top 1 foot gradational from gravelly silt with sand above, larger gravels at base but no percent increase</p>	<p>top 1 ft core from 243 to 253 appears to be slough</p> <p>collect ziplock bag sample for grain size analysis</p> <p>hole open 230 to 253 ft</p>
255				SM	<p>SILTY SAND (SM) - brn 7.5YR4/3, 40% silt, 25% m ang to subang sand, 20% f ang to subang sand, 10% c ang to subang sand, 5% f ang to subang gravel up to 5 cm, metamorphic, moist to wet.</p>	
260		CC34	9.5	SW/SM	<p>WELL GRADED SAND WITH SILT (SW/SM) - brn 7.5YR4/3, 35% c ang to subang sand, 25% m ang to subang sand, 15-20% f ang to subang gravel, 10-15% silt, 10% f ang to subang sand, metamorphic, moist to wet.</p> <p>- reddish brn 5YR5/4 to red 2.5YR5/6, 30% f sand, 25% silt/clay, 20% m sand, 15% c sand, 15% f gravel to 1 cm, large clast of indurated sand with gravel at 263 ft</p>	<p>collect sample in foil sleeve for pore water analysis at 1517 OW-3D-258</p>
265		CC35	6			
270				ML	<p>SANDY SILT WITH GRAVEL (ML) - brn 7.5YR4/3, 20% mottling yellowish red 5YR4/6, 45% silt, 25% f ang to subang gravel up to 2-4 cm, 20% f m ang to subang sand, 10% c ang to subang sand, metamorphic, moderate induration.</p> <p>- 10YR4/4 color and very homogenous silty sand texture, very loose and wet, core appears to be all worked</p>	
275		CC36	5			
Boring Terminated at 275 ft						
<p>ABBREVIATIONS</p> <p>cc = continuous core run brn = brown lt = light dk = dark</p>						

SOIL BORING LOG

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	INTERVAL	TYPE/ NUMBER	RECOVERY (ft)			
					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	