

# Utah Geological Survey Lithologic Log

Well ID: W.R. # 1168003M00  
Pavant Area PA-3

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Well Location: (C-18-7)9aab / 6.5 miles SSW of Delta, Utah

UTM: x 0358865 m, y 4348218 m NAD 83 39.27183 N 112.63612 W (NAD 83)

N 128 ft, E 551 ft from NE Corner, Sec 09, T 18S N S R 7W E W, SLBM ~~XXSM~~

Start Date 8/1/2012 Completion Date 8/4/2012 Driller USGS, Jack Hennagan

Drilling Method: Mud/Rotary from 0 to 503 ft Total Depth 503 ft

\_\_\_\_\_ from \_\_\_\_\_ to \_\_\_\_\_ Static Water Level UNK

\_\_\_\_\_ from \_\_\_\_\_ to \_\_\_\_\_ Water Level Date \_\_\_\_\_

Measured From \_\_\_\_\_

Borehole Diameter 7 7/8-in from 0 to 500 ft Casing 6-in steel & lock cap from +1.5 to 3.5 ft  
Approx 3.0" from 500 to 503 ft Type & Diameter 2-in sch-80 PVC  
 \_\_\_\_\_ from \_\_\_\_\_ to \_\_\_\_\_ \_\_\_\_\_ from \_\_\_\_\_ to \_\_\_\_\_  
(Sealed) from +1.5 to 500 ft

Screen Type & Diameter N/A from \_\_\_\_\_ to \_\_\_\_\_ Ground Elevation: Approx. 4592 ft

Screen Type & Diameter N/A from \_\_\_\_\_ to \_\_\_\_\_ Logged By: M.L. Gwynn, UGS

Geophysical Log  Yes  No Other Logs: High-precision Temperature

DEPTH	LITHOLOGY	WELL DIAGRAM	DRILLING INFO	LITHOLOGY DESCRIPTION
5	-----:::	XX	XX	0-10': 80% tan / 20% grn clay and fine-med sand.
	-----:::	XX	8" XX	
10	-----:::	XX	XX	10-20': Similar to above with some coarse basaltic sand.
	-----:::	\	B \	
	-----:::	\	O \	
	-----:::	\	R \	
15	-----:::	\	E \	20-30': Med-coarse basaltic sand w/ some hydrated clay.
	-----:::	\	H \	
	-----:::	\	O \	
	-----:::	\	L \	
20	-----:::	\	E \	30-40': Fine-med sand w/ some hydrated clay and minor coarse basaltic sand.
	-----:::	\	W \	
	-----:::	\	I \	
	-----:::	\	T \	
25	-----:::	\	H \	40-50': Hydrated gy-tan clay w/ some fine-med sand and minor coarse basaltic sand.
	-----:::	\	2" \	
	-----:::	\	S \	
	-----:::	\	C \	
30	-----:::	\	H \	500-503'.
	-----:::	\	8 \	
	-----:::	\	O \	
	-----:::	\	P \	
35	-----:::	\	V \	
	-----:::	\	C \	
	-----:::	\	V \	
	-----:::	\	C \	

DEPTH	LITHOLOGY	WELL DIAGRAM	DRILLING INFO	LITHOLOGY DESCRIPTION
55	-----: \/\	8"	\/\	50-60': Hydrated gy-gn clay w/ some tan clay and minor coarse blk sand.
60	-----: \/\	B O R E	\/\	60-70': Hydrated gy-tan clay w/ minor coarse blk sand.
65	-----: \/\	H O L E	\/\	70-80': AA
70	-----: \/\	W I T H	\/\	80-90': AA
75	-----: \/\	2"	\/\	90-100': AA
80	-----: \/\	S C H	\/\	100-110': Hydrated gy-brn clay w/ some gn clay and minor coarse sand.
85	-----: \/\	8 O	\/\	110-120': Hydrated gy-brn clay transitioning to gy-gn clay at bottom.
90	-----: \/\	P V C	\/\	120-130': Hydrated gy-gn clay w/ some tan and med brn clay.
95	-----: \/\	\/\	\/\	130-140': Hydrated gy-gn clay.
100	-----: \/\	\/\	\/\	140-150': Hydrated gy-brn clay transitioning to gy-gn near bottom; some coarse sand and very fine-fine pebble gravel.
105	-----: \/\	\/\	\/\	
110	-----: \/\	\/\	\/\	
115	-----: \/\	\/\	\/\	
120	-----: \/\	\/\	\/\	
125	-----: \/\	\/\	\/\	
130	-----: \/\	\/\	\/\	
135	-----: \/\	\/\	\/\	
140	-----: \/\	\/\	\/\	
145	-----: \/\	\/\	\/\	
	-----: \/\	\/\	\/\	

DEPTH	LITHOLOGY	WELL DIAGRAM	DRILLING INFO	LITHOLOGY DESCRIPTION
155		8"		150-160': Hydrated gy-brn clay w/ some small shale flecks; less cohesive than previous samples.
160		B O R E		160-170': Similar to above, but slightly more cohesive.
165		H O L E		170-180': AA
170		W I T H		180-190': AA
175		2"		
180		S C H		
185		8 0		190-200': Hydrated gy-brn clay; nearly as cohesive as shallow samples.
190		P V C		200-210': Similar to above, but grayer.
195				
200				
205				
210				210-220': Similar to above, w/ addition of gy-gn and minor tan clay.
215				
220				220-230': Hydrated gy-brn clay.
225				
230				230-240': Similar to above, but browner.
235				
240				240-250': AA
245				

DEPTH	LITHOLOGY	WELL DIAGRAM	DRILLING INFO	LITHOLOGY DESCRIPTION
		\\	\\	250-260': AA
255		\\ 8" \\		
		\\ B \\		
260		\\ O \\		260-270': AA
		\\ R \\		
265		\\ E \\		
		\\ H \\		
270		\\ O \\		270-280': AA
		\\ L \\		
275		\\ E \\		
		\\ W \\		
280		\\ I \\		280-290': AA
		\\ T \\		
285		\\ H \\		
		\\ 2" \\	Switch from 7.875"	
290		\\ S \\	tricone to	
		\\ C \\	7.875" drag	
295		\\ H \\	bit.	
300		\\ 8 \\		290-300': AA
		\\ O \\		
305		\\ P \\		
		\\ V \\		
310		\\ C \\		300-310': AA
		\\ \\		
315		\\ \\		310-320': AA
		\\ \\		
320		\\ \\		320-330': AA
		\\ \\		
325		\\ \\		
		\\ \\		
330		\\ \\		330-340': Hydrated gy-gn clay; very cohesive.
		\\ \\		
335		\\ \\		
		\\ \\		
340		\\ \\		340-350': Hydrated gy-brn clay; very cohesive.
		\\ \\		
345		\\ \\		
		\\ \\		
		\\ \\		

DEPTH	LITHOLOGY	WELL DIAGRAM	DRILLING INFO	LITHOLOGY DESCRIPTION
		∨ ∨		350-360': AA
355		∨ 8" ∨		
		∨ B ∨		
		∨ O ∨		
360		∨ R ∨		360-370': AA
		∨ E ∨		
		∨ H ∨		
365		∨ O ∨		
		∨ L ∨		
		∨ E ∨		
370		∨ W ∨		370-380': Hydrated gy-brn clay w/ minor small tan and gn shale flecks; slightly less cohesive.
		∨ I ∨		
375		∨ T ∨		
		∨ H ∨		
380		∨ 2" ∨		380-390': AA
		∨ S ∨		
385		∨ C ∨		
		∨ H ∨		
390		∨ 8 ∨		390-400': AA
		∨ O ∨		
395		∨ P ∨		
		∨ V ∨		
400		∨ C ∨		400-410': Hydrated gy-brn clay w/ minor small tan and gn shale flecks. Some med-coarse basaltic sand appearing at 408'.
		∨ ∨		
405		∨ ∨		
	:	∨ ∨		
410	:	∨ ∨		410-420': Similar to above, but basaltic sand diminishing near bottom.
	:	∨ ∨		
415	:	∨ ∨		
	:	∨ ∨		
420	:	∨ ∨		420-430': Similar to above, but very minor basaltic sand.
	:	∨ ∨		
425	:	∨ ∨		
	:	∨ ∨		
430	:	∨ ∨		430-440': Hydrated gy-brn clay w/ minor small flecks of shale; no basaltic sand.
		∨ ∨		
435		∨ ∨		
		∨ ∨		
440		∨ ∨		440-450': AA
		∨ ∨		
445		∨ ∨		
		∨ ∨		

DEPTH	LITHOLOGY	WELL DIAGRAM	DRILLING INFO	LITHOLOGY DESCRIPTION
455		8"		450-460': Hydrated gy-brn clay.
460		B		460-470': AA
465		O		
470		R		470-480': AA
475		E		
480		H		480-490': Hydrated gy-brn clay w/ minor small shale flecks.
485		O		
490		L		490-500': AA
495		E		
500		W		500-503': Cored (Shelby Tube). Only 500-501.5' recovered undisturbed.
505		I		
510		T		TD: 503 ft
515		H		
520		2"		
525		S		
530		C		
535		H		
540		8		
545		O		
		P		
		V		
		C		