

W. R. # 1171002M00

# Utah Geological Survey Lithologic Log

Well ID: Pavant PA-6

Page 1 of 6

Well Location: (C-21-08)32adc

UTM: x 346622 m, y 4312192 m NAD 83

N 191 ft, W 1041 ft from E4 Corner, Sec 32, T 21 S R 8 W, SLBM ~~USM~~

Start Date Aug 19, 2012 Completion Date Aug 22, 2012 Driller Jack Hennigan, USGS RD

Drilling Method: mud rotary from 0 to 500 feet Total Depth 500 feet

from \_\_\_\_\_ to \_\_\_\_\_ Static Water Level NA

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

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

Borehole Diameter 7.88 in from 0 to 500 ft Casing 2 in sch-80 PVC from 0 to 500'  
(bit size) \_\_\_\_\_ from \_\_\_\_\_ to \_\_\_\_\_ Type & Diameter \_\_\_\_\_ from \_\_\_\_\_ to \_\_\_\_\_  
\_\_\_\_\_ from \_\_\_\_\_ to \_\_\_\_\_ \_\_\_\_\_ from \_\_\_\_\_ to \_\_\_\_\_

Screen \_\_\_\_\_ from \_\_\_\_\_ to \_\_\_\_\_ Ground Elevation: 4680 ft (est.)

Type & Diameter \_\_\_\_\_ from \_\_\_\_\_ to \_\_\_\_\_ Logged By: R. Blackett, UGS

Geophysical Log  Yes  No Other Logs: sonic, gamma, resistivity, caliper, temp.

DEPTH	LITHOLOGY	WELL DIAGRAM	DRILLING INFO	LITHOLOGY DESCRIPTION
5	----- : : : : : ----- : : : : : -----	\\ 7.9" \\  \\  O  \\  \\  P  \\  \\  E  \\  \\  N  \\  \\   \\	Drill with 7-7/8" PDC bit to TD.	0-10': clay/sand, lt. gray - tan.
10	o o o o : : : : : -----	\\  H  \\  \\  O  \\  \\  L  \\  \\  E  \\  \\   \\		10-20': Pebbles/sand/clay, pebbles poorly sorted, heterogenous mix; clay as above.
15	o o o o : : : : : -----	\\  W  \\  \\  I  \\  \\  T  \\  \\  H  \\  \\   \\		20-30': As above.
20	o o o o : : : : : -----	\\  2"  \\  \\  P  \\  \\  V  \\  \\  C  \\  \\   \\		30-40': clay, lt. tan, compact, w/pebbles.
25	o o o o : : : : : -----	\\   \\  \\   \\  \\   \\  \\   \\  \\   \\		
30	o o o o : : : : : -----	\\   \\  \\   \\  \\   \\  \\   \\  \\   \\		
35	o o o o : : : : : -----	\\   \\  \\   \\  \\   \\  \\   \\  \\   \\		
40	o o o o : : : : : -----	\\   \\  \\   \\  \\   \\  \\   \\  \\   \\		40-50': As above.
45	o o o o : : : : : -----	\\   \\  \\   \\  \\   \\  \\   \\  \\   \\		

DEPTH	LITHOLOGY	WELL DIAGRAM	DRILLING INFO	LITHOLOGY DESCRIPTION
		7.9"		
55	○ ○ ○ ○	○ P E N		50-60': clay, lt. tan, w/pebbles of mostly black basalt.
60	○ ○ ○ ○	H O L		60-70': clay, lt. tan to lt. gray.
65		E W		
70		I T H		70-80': clay, mostly lt. gray.
75		2" P		
80		V C		80-90': clay, mostly lt. - med. gray, some tan.
85				
90				90-100': As above.
95				
100				100-110': as above
105				
110				110-120': clay, med. gray.
115				
120				120-130': clay, variegated lt. gray to lt. tan.
125				
130				130-140': clay, lt. gray
135				
140				140-150': clay, medium tan to gray.
145				

DEPTH	LITHOLOGY	WELL DIAGRAM	DRILLING INFO	LITHOLOGY DESCRIPTION
	-----	\\ 7.9" \\		150-160': clay, medium tan to gray.
155	-----	\\  O  \\		
	-----	\\  P  \\		
	-----	\\  E  \\		
	-----	\\  N  \\		
160	-----	\\   \\		160-170': As above.
	-----	\\  H  \\		
	-----	\\  O  \\		
	-----	\\  L  \\		
165	-----	\\  E  \\		
	-----	\\   \\		
	-----	\\  W  \\		
170	-----	\\  I  \\		170-180': As above.
	-----	\\  T  \\		
	-----	\\  H  \\		
175	-----	\\   \\		
	-----	\\  2"  \\		
	-----	\\  P  \\		
180	-----	\\  V  \\		180-190': As above.
	-----	\\  C  \\		
	-----	\\   \\		
185	-----	\\   \\		
	-----	\\   \\		
190	-----	\\   \\		190-200': As above.
	-----	\\   \\		
195	-----	\\   \\		
	-----	\\   \\		
200	-----	\\   \\		200-210': As above.
	-----	\\   \\		
205	-----	\\   \\		
	-----	\\   \\		
210	-----	\\   \\		210-220': As above.
	-----	\\   \\		
215	-----	\\   \\		
	-----	\\   \\		
220	-----	\\   \\		220-230': As above.
	-----	\\   \\		
225	-----	\\   \\		
	-----	\\   \\		
230	-----	\\   \\		230-240': As above.
	-----	\\   \\		
235	-----	\\   \\		
	-----	\\   \\		
240	-----	\\   \\		240-250': As above.(missed sample)
	-----	\\   \\		
245	-----	\\   \\		
	-----	\\   \\		
	-----	\\   \\		
	-----	\\   \\		

DEPTH	LITHOLOGY	WELL DIAGRAM	DRILLING INFO	LITHOLOGY DESCRIPTION
255		7.9" O P E N H O L E W I T H I N 2" P V C		250-260': clay, lt. gray, cohesive.
260				260-270': As above.
270				270-280': As above.
280				280-290': clay, lt. gray, sticky, platy.
290				290-300': As above. (end of drilling 1st day)
300			3-in core 300 to 302.3 ft. (Shelby tube-type)	300-310': clay, lt. gray, core interval 300 to 302.3 ft (Shelby tube).
310			Resume 7.88 in PDC bit 300' to TD	310-320': clay, lt. gray to tan.
320				320-330': clay, lt. gray to tan w/grit.
330				330-340': As above.
340				340-350': As above.
345				

DEPTH	LITHOLOGY	WELL DIAGRAM	DRILLING INFO	LITHOLOGY DESCRIPTION
355		7.9" O P E N		350-360': clay, lt. gray to tan.
360		H O L E		360-370': As above.
365		E W I T H		370-380': As above.
370		2" P V C		380-390': As above.
375				
380				
385				
390				390-400': As above. (end of second day, Aug. 20, 2012 ~ 7 p.m.)
395				
400				
405				400-410': clay, medium to lt. gray.
410				
415				410-420': As above.
420				420-430': As above.
425				
430				430-440': As above.
435				
440				440-450': As above.
445				

DEPTH	LITHOLOGY	WELL DIAGRAM	DRILLING INFO	LITHOLOGY DESCRIPTION
455		7.9" O P E N		450-460': clay, medium to lt. gray.
460		H O L E W I T H 2" P V C		460-470': clay, medium gray w/small shale flecs.
470				470-480': As above.
480				480-490': clay, medium gray
490				490-500': As above. (Total Depth: 500 ft.)
500				Total Depth 500 feet
505				
510				
515				
520				
525				
530				
535				
540				
545				