



Operator:
lantha Resources, LLC
Garnett, KS

Minckley #1J
Anderson Co., KS
4-23S-19E
API: 003-26567

Spud Date:	10/28/2016	Surface Bit:	9.875"
Surface Casing:	7.0"	Drill Bit:	5.875"
Surface Length:	22.4'	Longstring:	750.85'
Surface Cement:	6 sx	Longstring Date:	11/2/2016
Longstring:	2 7/8 EUE New API		

Driller's Log

Top	Bottom	Formation	Comments
0	2	Soil	
2	12	Clay	
12	15	Gravel	
15	103	Shale	
103	141	Lime	
141	168	Shale	
168	170	Coal	
170	181	Lime	
181	193	Shale	
193	197	Lime	
197	209	Shale	
209	273	Lime	
273	278	Shale	
278	279	Coal	
279	332	Lime	
332	458	Shale	
458	465	Lime	
465	491	Shale	
491	493	Bl. Shale	
493	500	Lime	
500	518	Shale	
518	530	Lime	
530	536	Shale	
536	537	Lime	

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537	547	Shale	
547	590	Sand	582-590 Good bleed to pit, good odor
590	592	Bl. Shale	
592	582	Shale	
582	590	Lime	
590	596	Shale	
596	619	Lime	
619	621	Shale	
621	626	Lime	
626	630	Bl. Shale	
630	645	Shale	
645	659	Lime	
659	670	Shale	
670	673	Lime	
673	690	Shale	
690	691	Coal	
691	698	Bl. Shale	
698	713.5	Sand	See below
713.5	762	Shale	
762		TD	

Sand Detail

698-700	Sand w/sandy shale & shale, fair oil show
700-713.5	Sand, random shale stringers, good sand w/good oil saturation, good dissolved gas, good bleed back after washing
713.5-717	Shale, sandy shale, no oil

CORE: #1 - 698-718