



Operator:
lantha Resources, LLC
Garnett, KS

Minckley #2J

Anderson Co., KS
4-23S-19E
API: 003-26568

Spud Date:	11/2/2016	Surface Bit:	9.875"
Surface Casing:	7.0"	Drill Bit:	5.875"
Surface Length:	22.4'	Longstring:	751.35'
Surface Cement:	6 sx	Longstring Date:	11/4/2016
Longstring:	2 7/8 EUE New API		

Driller's Log

Top	Bottom	Formation	Comments
0	2	Soil	
2	12	Clay	
12	15	Gravel	
15	49	Shale	
49	52	Lime	
52	101.5	Shale	
101.5	109	Lime	
109	111	Shale	
111	140	Lime	
140	155	Shale	
155	166	Sandy Shale	
166	170	Bl. Shale	
170	179	Lime	
179	196	Shale	
196	207	Shale	
207	271	Lime	
271	276	Shale	
276	297	Lime	
297	301	Shale	
301	318	Lime	
318	321	Shale	
321	326	Lime	
326	494	Shale	
494	501	Lime	

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501	517	Shale	
517	528	Lime	582-590 Good bleed to pit, good odor
528	531	Shale	
531	538	Lime	
538	547	Shale	
547	569	Sand	w/sandy shale
569	588	Sand	No show
588	590	Coal	
590	596	Shale	
596	608	Lime	
608	613	Shale	
613	627	Lime	
627	641	Shale	
641	661	Lime	
661	666	Shale	Limey
666	692	Shale	
692	694	Coal	
694	697	Shale	Muddy
697	711	Sand	Good oil show, see below
711	762	Shale	
762		TD	

Sand Detail

697-698	Sand w/shale, fair oil show
698-700	Sand w/shale, fair oil show, fair bleed, better than above
700-704	Sand, good odor, dark brown, good bleed
704-706	Sand, small amount shale, good oil show
706-708	Sand w/more shale, still showing good oil
708-710	Sand, less shale, good oil show, strong odor & saturation
710-711	Sand w/more shale, still showing oil
711-712	Muddy shale, no oil show