



Operator:
lantha Resources, LLC
Garnett, KS

Poss #3A
Anderson Co., KS
11-20S-20E
API: 003-26498

Spud Date:	12/9/2015	Surface Bit:	11.0"
Surface Casing:	7.0"	Drill Bit:	5.875"
Surface Length:	22.3'	Longstring:	690.5'
Surface Cement:	5 sx	Longstring Date:	12/11/2015
Longstring:	2 7/8 EUE New LS		

Driller's Log

Top	Bottom	Formation	Comments
0	2	Soil	
2	14	Clay & Gravel	
14	71	Shale	
71	99	Lime	
99	104	Shale	
104	106	Sand	
106	112	Shale	
112	114	Coal	
114	116	Shale	
116	124	Lime	
124	171	Shale	
171	181	Lime	
181	190	Shale	
190	224	Lime	
224	233	Shale	
233	271	Lime	
271	275	Shale	
275	280	Lime	
280	310	Shale	
310	313	Sand	Fair to good oil show, good bleed
313	402	Shale	
402	412	Lime	
412	440	Sand	Laminated, fair odor, mostly shale
440	442	Lime	

Poss #3A
Anderson Co., KS

442	452	Shale	
452	466	Lime	
466	492	Shale	
492	506	Sand	
506	510	Shale	
510	512	Coal	
512	514	Lime	
514	533	Shale	
533	535	Lime	
535	558	Shale	
558	571	Lime	
571	588	Shale	
588	590	Lime	
590	628	Shale	
628	676	Sand	See below
676	702	Shale	
702		TD	

Run	Coring Footage	Rec.
1		
2		

Sand Detail

628-632	Laminated, mostly shale, good odor, slight bleed
632-636	Good sand, soft, good odor and bleed to pit
636-638	Laminated, mostly shale, good bleed
638-644	Good sand, soft, good odor and bleed to pit
644-646	Laminated sand, fair bleed, good odor
646-652	Shale
652-655	Sand, hard, faint odor, no bleed
655-657	Fair odor, no bleed
657-659	Good odor, slight bleed
659-667	Sandy shale & sand faint odor
667-670	Sand, hard, no odor, no bleed
670-676	Good odor, slight bleed in samples, nothing to pit
676-678	Muddy sandy shale

Best: 632 - 646