



**Operator:**  
lantha Resources, LLC  
Garnett, KS

**Poss #42**  
Anderson Co., KS  
11-20S-20E  
API: 003-26427

<b>Spud Date:</b>	8/6/2015	<b>Surface Bit:</b>	11.0"
<b>Surface Casing:</b>	7.0"	<b>Drill Bit:</b>	5.875"
<b>Surface Length:</b>	22.8'	<b>Longstring:</b>	758.75'
<b>Surface Cement:</b>	6 sx	<b>Longstring Date:</b>	8/7/2015
<b>Longstring:</b>	2 7/8 EUE Used		

### Driller's Log

Top	Bottom	Formation	Comments
0	8	Soil & clay	
8	11	Gravel	
11	81	Shale	
81	109	Lime	
109	125	Shale	
125	132	Lime	
132	178	Shale	
178	190	Lime	
190	198	Shale	
198	233	Lime	
233	239	Shale	
239	241	Bl. Shale	
241	284	Lime	
284	288	Shale	
288	294	Lime	
294	314	Shale	
314	317	Lime	
317	324	Shale	
324	329	Sand	Good odor, good bleed in top 2'
329	379	Sandy Shale	
379	414	Shale	
414	416	Lime	
416	421	Shale	Muddy
421	428	Shale	

428	433	Sand	Slight odor, no bleed
433	461	Shale	
461	463	Lime	
463	467	Shale	
467	470	Lime	
470	474	Shale	
474	484	Lime	
484	488	Shale	
488	490	Lime	
490	502	Shale	
502	508	Lime	
508	529	Shale	
529	535	Sand	No odor
535	537	Coal	
537	546	Shale	
546	548	Lime	
548	552	Shale	
552	553	Lime	
553	564	Shale	
564	567	Lime	
567	590	Shale	
590	600	Lime	
600	612	Shale	
612	614	Lime	
614	624	Shale	
624	626	Lime	
626	633	Shale	
633	668	Bl. Shale	
668	670	Coal	
670	726	Sand	Good oil show, see below
726	750	Shale	
750	766	Sandy Shale	No odor
766	782	Sand	Brown, no odor
<b>782</b>		<b>TD</b>	

**Coring**

<b>Run</b>	<b>Footage</b>	<b>Rec.</b>
1		
2		

**Sand Detail**

670-684	Good oil show, good soft brown sand, lighter oil
684-690	Darker sand, with heavier looking oil, more shale
690-704	Better sand with good bleed, strong odor
704-710	More shale, but still good odor with good bleed
710-722	Lot of shale with fair odor, weaker show to pit
722-726	Mostly shale, weak odor