



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

**Poss #1A**  
Anderson Co., KS  
11-20S-20E  
API: 003-26497

<b>Spud Date:</b>	12/11/2016	<b>Surface Bit:</b>	11.0"
<b>Surface Casing:</b>	7.0"	<b>Drill Bit:</b>	5.875"
<b>Surface Length:</b>	21.5'	<b>Longstring:</b>	719.0'
<b>Surface Cement:</b>	5 sx	<b>Longstring Date:</b>	12/17/2015
<b>Longstring:</b>	2 7/8 EUE New LS		

### Driller's Log

Top	Bottom	Formation	Comments
0	2	Soil	
2	15	Clay & Gravel	
15	80	Shale	
80	110	Lime	
110	119	Sandy shale	
119	120	Coal	
120	177	Shale	
177	189	Lime	
189	196	Shale	
196	233	Lime	
233	240	Shale	
240	279	Lime	
279	317	Shale	
317	320	Sand	Faint odor
320	409	Shale	
409	411	Lime	
411	414	Sandy shale	
414	416	Lime	
416	422	Sand	Good odor, slight bleed, very shaley
422	452	Shale	
452	461	Lime	
461	468	Shale	
468	473	Sand	
473	496	Sandy shale	

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496	498	Coal	
498	530	Sandy shale	w/some sand, faint odor
530	561	Shale	
561	601	Lime	Limey shale
601	610	Bl. Shale	
610	624	Lime	Limey shale
624	626	Coal	
626	640	Shale	
640	691	Sand	See below
691	702	Sandy shale	
<b>702</b>		<b>TD</b>	

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

**Sand Detail**

640-656	Sand, soft, faint to no odor, no bleed
656-662	Muddy sandy shale
662-672	Fair odor, good soft sand, not a lot of visible bleed
672-676	Good odor, slight bleed to pit
676-678	Dark sand, fair odor, rainbow in samples
678-682	Shale
682-689	Sand, good odor, hard
689-691	Laminated, faint odor
691-693	Shale