



**Operator:**  
Kansas Resources Exploration & Development, LLC  
Overland Park, KS

**Cartwright #KRI-16**

Miami Co., KS  
23-18S-21E  
API: 121-30805

<b>Spud Date:</b>	11/13/2014	<b>Surface Bit:</b>	9.875"
<b>Surface Casing:</b>	7.0"	<b>Drill Bit:</b>	5.875"
<b>Surface Length:</b>	20.90'	<b>Longstring:</b>	566.75'
<b>Surface Cement:</b>	4 sx	<b>Baffle:</b>	536.95'
<b>Longstring:</b>	2 7/8 EUE - New L/S	<b>Longstring Date:</b>	11/14/2014

**Driller's Log**

Top	Bottom	Formation	Comments
0	11	Soil & clay	
11	33	Lime	
33	48	Shale	
48	58	Lime	
58	98	Shale	
98	14	Lime	
14	122	Shale	
122	146	Lime	
146	158	Shale	
158	173	Lime	
173	179	Shale	
179	195	Lime	
195	340	Shale	
340	342	Lime	
342	349	Shale	
349	350	Lime	
350	360	Shale	
360	376	Lime	
376	382	Shale	
382	392	Sand	Grey
392	419	Shale	
419	421	Coal	
421	425	Lime	

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425	433	Shale	
433	443	Lime	
443	454	Shale	
454	460	Lime	
460	481	Shale	
481	489	Lime	Good odor in top
489	494	Shale	
494	511	Sand	See below
511	572	Shale	
<b>572</b>		<b>TD</b>	

<b>Coring</b>		
<b>Run</b>	<b>Footage</b>	<b>Rec.</b>
1	495-515	20'

**Sand Detail**

495-498.5 Laminated sand, no outward bleed  
498.5-511 Laminated sand, mostly sandy shale, no outward bleed