

# McGOWN

DRILLING, INC.

**Operator:**

Kansas Resources Exploration & Development, LLC  
Overland Park, KS

**Cartwright #KRI-25**

Miami Co., KS  
23-18S-21E  
API: 121-30808

<b>Spud Date:</b>	11/11/2014	<b>Surface Bit:</b>	9.875"
<b>Surface Casing:</b>	7.0"	<b>Drill Bit:</b>	5.875"
<b>Surface Length:</b>	22.45'	<b>Longstring:</b>	570.3'
<b>Surface Cement:</b>	4 sx	<b>Baffle:</b>	538.8'
<b>Longstring:</b>	2 7/8 EUE - New L/S	<b>Longstring Date:</b>	11/12/2014

### Driller's Log

Top	Bottom	Formation	Comments
0	5	Soil & clay	
5	28	Lime	
28	42	Shale	
42	48	Lime	
48	93	Shale	
93	148	Lime	
148	154	Shale	
154	192	Lime	
192	297	Shale	
297	303	Shale	Limey
303	305	Lime	
305	334	Shale	
334	336	Lime	
336	357	Shale	
357	373	Lime	
373	380	Shale	
380	392	Sand	Grey
392	406	Shale	
406	408	Coal	
408	416	Shale	
416	423	Lime	
423	435	Shale	
435	437	Lime	

Cartwright #KRI 25  
Miami Co., KS

437	452	Shale	
452	460	Lime	
460	475	Shale	
475	488	Lime	Good odor, slight bleed to pit
488	493	Shale	
493	512	Sand	See below
512	515	Sandy Shale	
515	582	Shale	
<b>582</b>		<b>TD</b>	

<b>Coring</b>		
<b>Run</b>	<b>Footage</b>	<b>Rec.</b>
1	493-513	20'

**Sand Detail**

495-501	Mostly sand, good oil saturation and bleed
501-504	Laminated, mostly shale, spotty oil saturation
504-512	Laminated, mostly shale, no oil