

McGOWN

DRILLING, INC.

Operator:

Kansas Resources Exploration & Development, LLC
Overland Park, KS

Cartwright #KRI-17

Miami Co., KS
23-18S-21E
API: 121-30806

Spud Date: 11/14/2014
Surface Casing: 7.0"
Surface Length: 21.8'
Surface Cement: 4 sx
Longstring: 2 7/8 EUE - New L/S

Surface Bit: 9.875"
Drill Bit: 5.875"
Longstring: 562.50'
Baffle: 533.10'
Longstring Date: 11/17/2014

Driller's Log

Top	Bottom	Formation	Comments
0	14	Soil & clay	
14	30	Lime	
30	48	Shale	
48	57	Lime	
57	61	Shale	
61	63	Red Bed	
63	92	Shale	
92	105	Lime	
105	116	Shale	
116	144	Lime	
144	152	Shale	
152	195	Lime	
195	335	Shale	
335	337	Lime	
337	357	Shale	
357	374	Lime	
374	381	Shale	
381	391	Sand	Grey
391	418	Shale	
418	425	Lime	
425	441	Shale	
441	444	Lime	
444	458	Shale	

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458	468	Lime	
468	481	Shale	
481	489	Lime	Good odor
489	494	Shale	
494	509	Sand	See below
509	514	Sandy Shale	
514	582	Shale	
582		TD	

Coring

Run	Footage	Rec.
1	495-515	20'

Sand Detail

495-498.5	Grey sand, no oil bleed
498.5-503	Sand, dark brown, no oil bleed
503-509	Laminated sand, spotty saturation, light bleed 505-509