



Operator:
Grand Mesa Operating Co.
Wichita, KS

Craig #13-5

Douglas Co., KS
23-14S-20E
API: 045-22270

Spud Date:	7/2/2015	Surface Bit:	11.0"
Surface Casing:	7.0"	Drill Bit:	5.875"
Surface Length:	40.0'	Longstring:	759.40'
Surface Cement:	8 sx	Baffle:	749.40'
Longstring:	2 7/8 EUE - new	Longstring Date:	7/14/2015

Driller's Log

Top	Bottom	Formation	Comments
0	8	Soil & clay	
8	13	Shale	
13	16	Gravel & sand	
16	58	Shale	
58	84	Lime	
84	91	Shale	
91	97	Lime	
97	105	Shale	
105	130	Lime	
130	153	Shale	
153	170	Lime	
170	178	Sandy shale	
178	240	Shale	
240	264	Lime	
264	275	Shale	
275	289	Lime	
289	321	Shale	
321	336	Lime	
336	344	Shale	
344	400	Lime	
400	405	Shale	
405	418	Lime	
418	559	Shale	Big Shale
559	563	Lime	

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563	568	Shale	
568	580	Lime	
580	587	Shale	
587	593	Lime	
593	609	Shale	
609	613	Lime	
613	632	Shale	
632	642	Lime	
642	650	Shale	
650	653	Lime	
653	682	Shale	
682	700	Sand	See below
700	770	Shale	
770		TD	

Coring		
Run	Footage	Rec.
1	682-702	15'
2		
3		

Sand Detail

682-684	Sandy shale
684-687	Sandy shale w/spotty oil bleed
687-691	Sand & sandy shale, no oil show
691-697	Sand, laminated, light bleed, slow to bleed back, very shaly