

**Operator:**

Grand Mesa Operating Co.
Wichita, KS

Creten #13-3i

Douglas Co., KS
19-14S-21E
API: 045-22272

Spud Date:	6/25/2015	Surface Bit:	11.0"
Surface Casing:	7.0"	Drill Bit:	5.875"
Surface Length:	40.0'	Longstring:	850.8'
Surface Cement:	8 sx	Baffle:	840.5'
Longstring:	2 7/8 EUE - new	Longstring Date:	6/29/2015

Driller's Log

Top	Bottom	Formation	Comments
0	6	Soil & clay	
6	9	Lime	
9	18	Sandy shale	
18	29	Shale	
29	43	Lime	
43	159	Shale	
159	172	Lime	
172	180	Shale	
180	195	Lime	
195	203	Shale	
203	275	Lime	
275	340	Shale	
340	369	Lime	
369	384	Shale	
384	392	Lime	
392	420	Shale	
420	441	Lime	
441	452	Shale	
452	478	Lime	
478	485	Bl. Shale	
485	509	Lime	
509	513	Shale	
513	528	Lime	
528	646	Shale	

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646	648	Lime	
648	669	Shale	
669	678	Lime	
678	698	Shale	
698	704	Lime	
704	708	Shale	
708	714	Lime	
714	721	Shale	
721	745	Lime	
745	752	Bl. Shale	
752	767	Lime	
767	780	Bl. Shale	
780	783	Lime	
783	793	Shale	
793	795	Lime	
795	801	Bl. Shale	
801	809	Sand	Good oil show
809	816	Sandy shale	
816	862	Shale	
862		TD	

Coring		
Run	Footage	Rec.
1		
2		
3		