

**Operator:**

Grand Mesa Operating Co.
Wichita, KS

Creten #14-3i

Douglas Co., KS
19-14S-21E
API: 045-22274

Spud Date: 6/29/2015
Surface Casing: 7.0"
Surface Length: 40.0'
Surface Cement: 8 sx
Longstring: 2 7/8 EUE - new

Surface Bit: 11.0"
Drill Bit: 6.125"
Longstring: 849.95'
Baffle: 840.0'
Longstring Date: 7/2/2015

Driller's Log

Top	Bottom	Formation	Comments
0	6	Soil & clay	
6	9	Lime	
9	38	Sandy shale	
38	45	Lime	
45	92	Shale	
92	173	Sandy shale	
173	180	Lime	
180	192	Shale	
192	208	Lime	
208	218	Shale	
218	225	Lime	
225	233	Shale	
233	272	Lime	
272	278	Shale	
278	288	Lime	
288	354	Shale	
354	360	Lime	
360	364	Shale	
364	382	Lime	
382	395	Shale	
395	405	Lime	
405	431	Shale	
431	447	Lime	
447	462	Shale	

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462	486	Lime	
486	495	Shale	
495	521	Lime	
521	524	Bl. Shale	
524	527	Lime	
527	531	Shale	
531	538	Lime	
538	696	Shale	
696	700	Lime	
700	706	Shale	
706	712	Lime	
712	716	Shale	
716	722	Lime	
722	728	Shale	
728	738	Lime	
738	750	Shale	
750	754	Lime	
754	757	Shale	
757	775	Lime	
775	778	Bl. Shale	
778	795	Shale	
795	797	Bl. Shale	
797	800	Shale	
800	805	Lime	
805	808	Shale	
808	814	Sand	Good oil show, good bleed in core
814	817	Sandy shale	Spotty bleed
817	862	Shale	
862		TD	

Coring			
Run	Footage	Rec.	
1	808-808	0	Plugging up immediately with muck
2	808-817	9'	
3			