

**Operator:**

Grand Mesa Operating Co.
Wichita, KS

Creten #14-5i

Douglas Co., KS
19-14S-21E
API: 045-22273

Spud Date: 6/24/2015
Surface Casing: 7.0"
Surface Length: 40.0'
Surface Cement: 8 sx
Longstring:

Surface Bit: 11.0"
Drill Bit: 5.875"
Longstring: see below
Baffle:
Longstring Date: 6/25/2014

Driller's Log

Top	Bottom	Formation	Comments
0	12	Soil & clay	
12	15	Sand & gravel	
15	17	Shale	
17	20	Sandy shale	
20	25	Lime	
25	59	Shale	
59	64	Lime	
64	172	Sandy shale	
172	204	Lime	
204	212	Shale	
212	219	Lime	
219	227	Shale	
227	282	Lime	
282	300	Sandy shale	
300	346	Shale	
346	352	Lime	
352	357	Shale	
357	364	Lime	
364	365	Shale	
365	381	Lime	
381	390	Shale	
390	401	Lime	
401	411	Shale	
411	412	Lime	

412	429	Sandy shale	
429	450	Lime	
450	453	Bl. Shale	
453	464	Shale	
464	490	Lime	
490	497	Bl. Shale	
497	532	Lime	
532	536	Shale	
536	542	Lime	
542	724	Shale	
724	729	Lime	
729	734	Shale	
734	752	Lime	
752	772	Shale	
772	776	Lime	
776	780	Bl. Shale	
780	785	Lime	
785	797	Shale	
797	800	Lime	
800	805	Shale	Muddy
805	815	Shale	
815	828	Lime	
828	830	Bl. Shale	
830	900	Shale	
900		TD	

	Coring	
Run	Footage	Rec.
1		
2		
3		

7/25/15 - plug back well through drill pipe with 20 sx plug at TD, 20 sx plug at base of KC, will rig back up on hole and run 2 7/8 EUE in well to produce supply water from KC section and cement to top.