McGOWN DRILLING, INC.

Operator:
Grand Mesa Operating Co.
Wichita, KS

Creten #14-4

Douglas Co., KS
19-14S-21E
API: 045-22264

Spud Date:	4/17/2015	**Surface Bit:**	11.0"
Surface Casing:	8.625"	**Drill Bit:**	6.25"
Surface Length:	43.0'	**Longstring:**	875.75'
Surface Cement:	8 sx	**Longstring Date:**	4/21/2015
Longstring:	2 7/8 EUE - New Ltd. Service		

Driller's Log

Top	Bottom	Formation	Comments
0	16	Soil & clay	
16	22	Sandy muck	
22	38	Shale	Mucky
38	40	Lime	
40	45	Shale	Limey
45	171	Shale	
171	178	Lime	
178	189	Shale	
189	206	Lime	
206	215	Shale	
215	218	Lime	
218	236	Lime	Shaley
236	269	Lime	
269	275	Shale	
275	285	Lime	
285	298	Shale	
298	303	Lime	
303	349	Shale	
349	355	Lime	
355	360	Shale	
360	367	Lime	
367	378	Lime	Shaley
378	394	Shale	
394	402	Lime	

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402	429	Shale	
429	444	Lime	
444	460	Shale	
460	484	Lime	
484	492	Shale	
492	517	Lime	
517	520	Bl. Shale	
520	535	Lime	
535	676	Shale	
676	684	Shale	Limey
684	688	Lime	
688	705	Shale	
705	709	Lime	
709	713	Shale	
713	732	Lime	
732	735	Shale	
735	737	Coal	
737	746	Shale	
746	749	Lime	
749	753	Bl. Shale	
753	767	Lime	
767	770	Shale	
770	773	Lime	
773	783	Shale	
783	786	Lime	
786	798	Shale	Mucky
798	800	Lime	
800	807	Shale	
807	810	Sand	Light oil saturation
810	812	Sand	Heavily saturated with oil
812	822	Sand	Laminated with shale, light oil saturation
822	882	Shale	
882		**TD**	

Run	**Coring Footage**	**Rec.**
1	802-822	20'