



Operator:
Grand Mesa Operating
Wichita, KS

Richards #14-16

Coffey Co., KS
13-22-16E
API: 031-23924

Spud Date:	6/17/2014	Surface Bit:	11"
Surface Casing:	7.0"	Drill Bit:	6.25"
Surface Length:	44.0'	Longstring:	1063.75'
Surface Cement:	10 sx	Longstring Date:	6/19/2014
Longstring:	2 7/8 EUE - new L/S		

Driller's Log

Top	Bottom	Formation	Comments
0	8	Soil & Clay	
8	9	Gravel & Sand	
9	11	Lime	
11	20	Shale	
20	24	Lime	
24	205	Shale	
205	210	Lime	
210	215	Shale	
215	221	Lime	
221	224	Shale	
224	244	Lime	
244	250	Shale	
250	256	Red Bed	
256	267	Shale	
267	304	Lime	
304	308	Shale	
308	327	Lime	
327	332	Shale	
332	338	Lime	
338	417	Shale	
417	421	Lime	
421	423	Shale	
423	432	Lime	
432	437	Shale	

437	446	Lime	
446	458	Shale	
458	474	Lime	
474	538	Shale	
538	565	Lime	
565	582	Shale	
582	592	Lime	
592	594	Shale	
594	604	Lime	
604	608	Shale	
608	618	Lime	
618	642	Shale	
642	648	Lime	
648	799	Shale	
799	801	Coal	
801	830	Shale	
830	838	Lime	
838	844	Shale	
844	849	Lime	
849	867	Shale	
867	878	Lime	
878	898	Shale	
898	904	Lime	
904	924	Shale	
924	929	Lime	
929	970	Shale	
970	974	Lime	
974	1016	Shale	
1016	1016.6	Lime	
1016.6	1021	Shale	
1021	1022	Sand	Laminated, light to no bleed
1022	1024	Sand	Well saturated with oil
1024	1026	Sand	Laminated, light bleed
1026	1034	Sand	No oil
1034	1142	Shale	
1142		TD	

	Coring	
Run	Footage	Rec.
1	1010-1030	18'
2		