

**Operator:**

Grand Mesa Operating Co.
Wichita, KS

Smith #3-15

Douglas Co., KS
23-14S-20E
API: 045-22242

Spud Date: 11/11/2014**Surface Casing:** 7.0"**Surface Length:** 40.0'**Surface Cement:** 8 sx**Longstring:** 2 7/8 EUE - New Ltd. Service**Surface Bit:** 11.0"**Drill Bit:** 6.125"**Longstring:** 768.40'**Longstring Date:** 11/14/2014**Driller's Log**

Top	Bottom	Formation	Comments
0	28	Soil & clay	
28	36	Shale	
36	45	Lime	
45	56	Shale	
56	70	Lime	
70	73	Shale	
73	77	Lime	
77	79	Bl. Shale	
79	86	Shale	
86	92	Lime	
92	97	Shale	
97	100	Lime	
100	114	Sandy shale	
114	124	Shale	
124	133	Lime	
133	151	Sandy shale	
151	171	Lime	
171	224	Shale	
224	228	Lime	
228	242	Shale	
242	258	Lime	
258	272	Shale	
272	275	Red Bed	
275	291	Lime	

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291	293	Bl. Shale	
293	317	Shale	
317	329	Lime	
329	339	Shale	
339	367	Lime	
367	371	Shale	
371	378	Sandy shale	
378	391	Lime	
391	399	Bl. Shale	
399	403	Lime	
403	409	Shale	
409	413	Lime	
413	552	Shale	
552	557	Red Bed	
557	587	Shale	
587	598	Lime	
598	631	Shale	
631	646	Lime	
646	665	Shale	
665	668	Lime	
668	677	Shale	
677	679	Lime	
679	686	Shale	
686	687	Sand	Laminated, mostly shale, lens of oil sand
687	688	Sand	Very shaley, no oil
688	689	Sand	Dark sand, light oil show
689	697	Sand	Mostly shale, no show
697	708	Shale	
708	712	Sand	Light bleed to the pit
712	722	Sandy shale	Mucky, no show
722	750	Shale	
750	754	Bl. Shale	
754	758	Sand	No show
758	762	Sandy shale	Mucky, no show
762	776	Sand	Dark, dead oil
776	778	Coal	
778	782	Shale	
782		TD	

Coring		
Run	Footage	Rec.
1	682-686	20'
2	686-702	16'