



**Operator:**  
Grand Mesa Operating Co.  
Wichita, KS

**Schmidt 13-12i**

Douglas Co., KS  
15-14S-20E  
API: 045-22282

<b>Spud Date:</b>	10/8/2015	<b>Surface Bit:</b>	11.0"
<b>Surface Casing:</b>	7.0"	<b>Drill Bit:</b>	5.875"
<b>Surface Length:</b>	42.0'	<b>Longstring:</b>	754.1'
<b>Surface Cement:</b>	8 sx	<b>Longstring Date:</b>	10/12/2015
<b>Longstring:</b>	2 7/8 EUE - new		

**Driller's Log**

<b>Top</b>	<b>Bottom</b>	<b>Formation</b>	<b>Comments</b>
0	22	Soil & clay	
22	24	Gravel	
24	37	Shale	
37	44	Lime	
44	56	Sand	Grey
56	62	Shale	
62	78	Lime	
78	88	Shale	
88	94	Lime	
94	98	Shale	
98	124	Lime	
124	132	Shale	
132	172	Lime	
172	235	Sandy Shale	
235	256	Lime	
256	257	Shale	
257	260	Lime	
260	271	Shale	
271	285	Lime	
285	315	Shale	
315	328	Lime	
328	335	Shale	
335	362	Lime	
362	366	Shale	

366	408	Lime	
408	420	Sand	Hard
420	456	Shale	
456	460	Sandy Shale	Hard
460	452	Shale	
452	554	Sandy Shale	
554	557	Lime	
557	564.5	Shale	
564.5	568	Sandy Shale	
568	576	Sand	Grey, no odor
576	585	Shale	
585	591	Lime	
591	598	Shale	
598	600	Lime	
600	509	Shale	
509	616	Lime	
616	629	Shale	
629	632	Lime	
632	636	Shale	
636	653	Lime	
653	666	Shale	
666	668	Bl. Shale	
668	691	Shale	
691	720	Sand	See below
720	730	Sandy Shale	
730	740	Sand	Soft, brown, no odor or show
740	762	Sandy Shale	No show
<b>762</b>		<b>TD</b>	

### Coring

Run	Footage	Rec.
1	562-582	19'
2	582-602	20'

### Sand Detail

691-693	Some sand, mostly shale
693-698	Grey sand, hard, faint odor
698-706	Good sand, soft, good bleed to pit, good odor in samples
706-720	Fair odor, soft sand, less bleed, possibly water