

HAT DRILLING  
 12371 KS HWY 7  
 MOUND CITY, KS 66056  
 LICENSE # 33734  
 Gilliespie #I-20  
 API # 15-091-24206-00-00  
 SPUD DATE 11-18-13

Set 47' of 7'  
 TD 954'  
 Ran 948' of 2 7/8 on 11-18-13

Footage	Formation	Thickness	Notes
2	Topsoil	2	
30	clay	28	
66	shale	36	
70	lime	4	
74	shale	4	
100	lime	26	
107	shale	7	
118	lime	11	
124	shale	6	
152	lime	28	
165	shale	13	
186	lime	21	
195	shale	9	
208	lime	13	
225	shale	17	
259	lime	34	
267	shale	8	
315	lime	48	
359	shale	44	
386	lime	27	
394	shale	8	
423	lime	29	
425	shale	2	
432	lime	7	
601	shale	169	Hertha
606	lime	5	
618	shale	12	
623	lime	5	
825	shale	202	
829	sand	4	Cattelman, good bleed
881	lime	52	
883	sand	2	Bartlesville, good odor, good bleed
884	lime	1	
888	sand	4	
954	shale	66	