

Marc A. Downing		Geologic Report	
Consulting Petroleum Geologist		Drilling Time and Sample Log	
Operator H&C Oil Operating, Inc.		KB Elevation 2393	
Lease Hobbs Unit	No. 19-1	DF 2386	GL 2386
API # 15-065-24105-0000		Casing Record Surface 8 5/8" @ 219'	
Field High Hill		Production 5 1/2" 3994'	
Location 100' FNL & 990' FEL		Electrical Surveys CNL/CDL, DIL, MEL, Sonic	
Sec. 19	Twp. 10s	Rge. 24w	
County Graham	State Kansas		
Formation	Sample tops	Log Tops	Datum
Top Anhydrite	2020	2014	+379
Base Anhydrite	2061	2057	+336
Topoka	3456	3453	-1060
Heebner	3671	3669	-1276
Toronto	3692	3691	-1298
LKC	3708	3707	-1314
BKC	3937	3936	-1543
Total Depth	3995	3995	-1602
Reference Well For Structural Comparison	Donald Slawson		
Hobbs 'A' #2	NE NE NE	Sec. 19-10s-24w	

Drilling Contractor	American Eagle, Rig #2		
Commenced	8-28-15	Completed	9-4-15
Samples Saved From	3600	To	RTD
Drilling Time Kept From	3350	To	RTD
Samples Examined From	3600	To	RTD
Geological Supervision From	3350	To	RTD

Summary and Recommendations

Due to structural position, DST recovery, and log evaluation, it was decided to set 5 1/2" production casing for completion.

Perforate:
 LKC J: 3882-3890 (DST #5)
 LKC H: 3840-3845 (Before Abandonment)

Respectfully Submitted,

 Marc A. Downing

