

Marc A. Downing		Geologic Report	
Consulting Petroleum Geologist		Drilling Time and Sample Log	
Operator H&C Oil Operating, Inc.		KB Elevation 2471	DF 2469
Lease Rosalie No. 17-2		GL 2464	
API # 15-065-24016-0000		Casing Record Surface	
Field Hurlbut West		8 5/8" @ 264'	
Location 1200' FNL & 330' FWL		Production 5 1/2" 4089'	
Sec. 17	Twp. 9s	Rge. 24w	Electrical Surveys
County Graham State Kansas			CNL/CDL, DIL, MEL
Formation	Sample tops	Log Tops	Datum
Top Anhydrite	2141	2140	+331
Base Anhydrite	2176	2174	+297
Topeka	3552	3552	-1081
Heebner	3767	3765	-1294
Toronto	3791	3797	-1326
LKC	3809	3809	-1338
BKC	4033	4031	-1560
Total Depth	4090	4090	-1619
Reference Well For Structural Comparison	H&C Oil Operating, Inc.		
Rosalie #17-1	2310' FNL & 660' FWL		Sec. 17-9s-24w

Drilling Contractor	American Eagle, Rig #2	
Commenced	3-15-14	Completed 3-21-14
Samples Saved From	3750	To RTD
Drilling Time Kept From	3450	To RTD
Samples Examined From	3750	To RTD
Geological Supervision From	3750	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 K: 4003-4008
 LKC J: 3987-3993 (Before Abandonment)
 LKC H: 3950-3952 (Before Abandonment)

Respectfully Submitted,

Marc A. Downing

