

Marc A. Downing		Geologic Report	
Consulting Petroleum Geologist		Drilling Time and Sample Log	
Operator H&C Oil Operating, Inc.		Elevation	2161
Lease Griffith Unit		KB	2154
API # 15-065-24081-0000		DF	
Field Wildcat		GL	2154
Location 2560' FNL & 290' FEL		Casing Record	
Sec. 3 Twp. 8s Rge. 22w		Surface	
County Graham State Kansas		8 5/8" @ 261'	
Formation		Production	
Top Anhydrite	1745	5 1/2" @ 3803'	
Base Anhydrite	1776	Electrical Surveys	
		CNL/CDL, DIL, MEL	
Topoka	3144	Datum	
Heebner	3349	Struct Comp	
Toronto	3368	-414 +6	
LKC	3385	-1747 +6	
BKC	3580	-1778 +383	
Arbuckle	3743	-1778 +383	
Total Depth	3803	-1644	
Reference Well For Structural Comparison H&C Oil Operating, Inc.			
Griffith Unit #2-1 900' FSL & 100' FWL Sec. 2-8s-22w			

Drilling Contractor	American Eagle, Rig #2	
Commenced	11-6-14	Completed 11-13-14
Samples Saved From	3150	To RTD
Drilling Time Kept From	3050	To RTD
Samples Examined From	3150	To RTD
Geological Supervision From	3050	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: 3562-3565
LKC H: 3512-3515
LKC E: 3452-3454
LKC D: 3436-3440 (Before Abandonment)

Respectfully Submitted,

Marc A. Downing

Formation	Sample tops	Log Tops	Datum	Struct Comp
Top Anhydrite	1745	1747	+414	+6
Base Anhydrite	1776	1778	+383	+6
Topeka	3144	3146	-985	-6
Heebner	3349	3351	-1190	-6
Toronto	3368	3372	-1211	-6
LKC	3385	3387	-1226	-5
BKC	3580	3581	-1420	-1
Arbuckle	3743	3744	-1583	-12
Total Depth	3803	3805	-1644	

