Marc A. Downing Consulting Petroleum Geologist	Geologic Report Drilling Time and Sample Log	
Operator **Downing-Nelson Oil Co., Inc.**		Elevation KB 2347 DF 2345 GL 2339
Lease **Windy Hill-Darnell Unit**	No. **1-21**	
API # **15-065-24121-0000**		Casing Record Surface **8 5/8" @ 219'** Production **5 1/2" @ 4000'**
Field **Wildcat**		
Location **1240' FSL & 90' FEL**		Electrical Surveys **CNL/CDL, DIL, MEL**
Sec. **20** Twp. **9s** Rge. **21w**		
County **Graham** State **Kansas**		

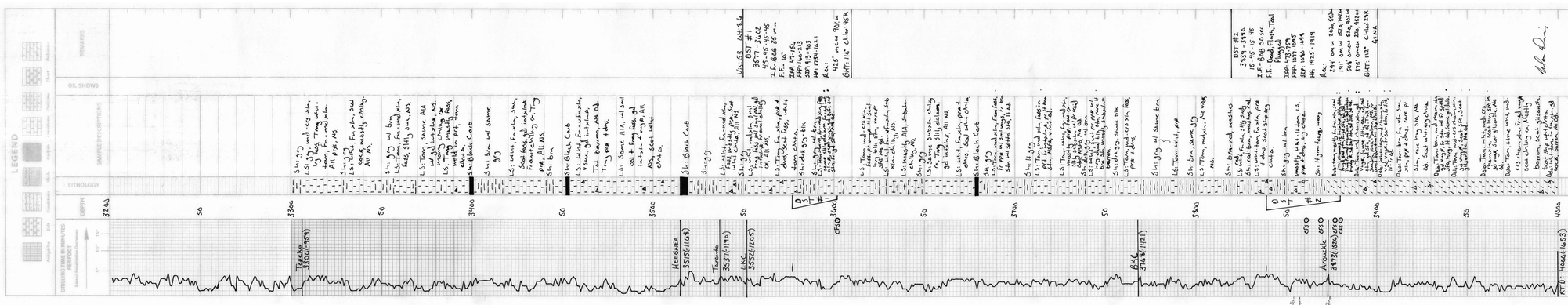
Formation	Sample tops	Log Tops	Datum	Struct Comp
Top Anhydrite	1805	1808	+539	-3
Base Anhydrite	1845	1844	+503	-2
Topeka	3306	3306	-959	-2
Heebner	3515	3517	-1170	-1
Toronto	3537	3539	-1192	+3
LKC	3552	3554	-1207	+3
BKC	3768	3770	-1423	-1
Arbuckle	3873	3874	-1527	-8
Total Depth	4000	4003	-1656	

Reference Well For Structural Comparison **DNOCI**
Wendelin Herman #1-30 **335' FSL & 2425' FWL** **Sec. 30-14s-19w**

Drilling Contractor	Discovery Drilling, Rig #1		
Commenced	9-15-16	Completed	9-22-16
Samples Saved From	3300	To	RTD
Drilling Time Kept From	3200	To	RTD
Samples Examined From	3300	To	RTD
Geological Supervision From	3300	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 in the Arbuckle.

Respectfully Submitted,

Marc A. Downing