Marc A. Downing Consulting Petroleum Geologist	Geologic Report Drilling Time and Sample Log

Operator **Downing-Nelson Oil Co., Inc.**

Lease **SDK Unit** No. **1-14**

API # **15-051-26707-0000**

Field **Wildcat**

Location **2475' FNL & 1510' FEL**

Sec. **14** Twp. **14s** Rge. **19w**

County **Ellis** State **Kansas**

Elevation
KB 2168
DF 2166
GL 2160

Casing Record
Surface 8 5/8" @ 222'
Production 5 1/2" @ 3907'

Electrical Surveys
CNDL, DIL, MEL, Sonic

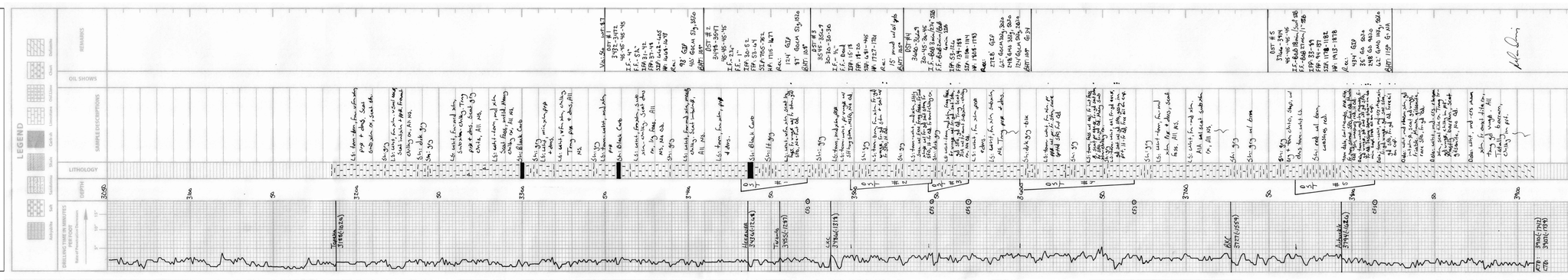
Formation	Sample tops	Log Tops	Datum	Struct Comp
Top Anhydrite	1452	1450	+718	-18
Base Anhydrite	1490	1493	+675	-19
Topeka	3188	3185	-1017	-5
Heebner	3436	3433	-1265	-6
Toronto	3455	3454	-1286	-8
LKC	3486	3482	-1314	-10
BKC	3727	3723	-1555	-18
Arbuckle	3794	3789	-1621	Not Reached
Total Depth	3910	3907	-1739	

Reference Well For Structural Comparison **DNOCI**
Johnson #2-13 **2005' FNL & 795' FWL** **Sec. 13-14s-19w**

Drilling Contractor	Discovery Drilling, Rig #3		
Commenced	6-3-14	Completed	6-10-14
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 in the Arbuckle.

Respectfully Submitted,

Marc A. Downing