

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

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

Lease **Rupp** No. **2-15**

API # **15-195-23038-0000**

Field **Wildcat**

Location **1070' FNL & 1865' FWL**

Sec. **15** Twp. **13s** Rge. **21w**

County **Trego** State **Kansas**

Formation **Sample tops** **Log Tops** **Datum** **Struct Comp**

Formation	Sample tops	Log Tops	Datum	Struct Comp
Top Anhydrite	1555	1555	+639	+2
Base Anhydrite	1602	1601	+593	-2
Topeka	3224	3225	-1031	-3
Heebner	3452	3454	-1260	-3
Toronto	3468	3474	-1280	-6
LKC	3486	3489	-1295	-5
BKC	3731	3732	-1538	-1
Marmaton	3806	3808	-1614	FL
Arbuckle	3869	3871	-1677	+46
Total Depth	3982	3984	-1790	

Reference Well For Structural Comparison **DNOCI Rupp #1-15** **330' FNL & 2217' FWL** **Sec. 10-13s-21w**

Drilling Contractor **Discovery Drilling, Rig #4**

Commenced **1-24-18** Completed **2-1-18**

Samples Saved From **3200** To **RTD**

Drilling Time Kept From **3100** To **RTD**

Samples Examined From **3200** To **RTD**

Geological Supervision From **3200** 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.**

Respectfully Submitted,

Marc A. Downing

**ROCK TYPES** Carbon Sh

**ACCESSORIES**

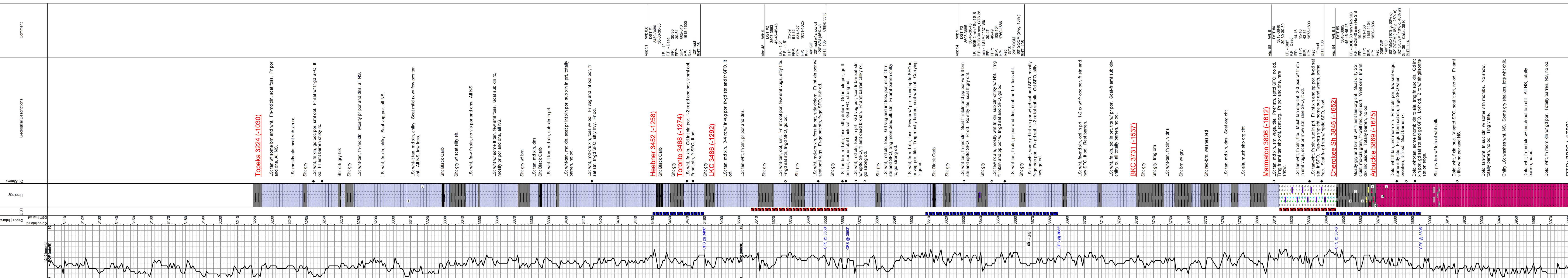
**MINERAL** Chert White

**STRINGER** Dolomite Limestone Sandstone Shale carb shale

**OTHER SYMBOLS**

**DST** Daily Report Digital Photo Document Folder Link Vertical Log File Horizontal Log File Core Log File Drill Cuttings Rpt

**MISC** Spotted Sin 75% Spotted Sin 50% Spotted Sin 25% Questionable Sin Dead Oil Sin Fluorescence



RTD: 3982 (-1788)