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

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Consulting Petroleum Geologist

Geologic Report

Drilling Time and Sample Log

Operator	Downing-Nelson Oil Co., Inc.		
Lease	Heberlein	No.	1-25
API #	15-195-23048-0000		
Field	Flax		
Location	1662' FSL & 335' FWL		
Sec. 25	Twp. 13s	Rge. 21w	
County	Trego	State	Kansas

Elevation
KB 2335
DF 2333
GL 2327

Casing Record
Surface
8 5/8" @ 220'
Production
5 1/2" @ 4106'

Electrical Surveys
CNDL, DIL
MEL, Sonic

Formation	Sample tops	Log Tops	Datum	Struct Comp
Top Anhydrite	1678	1676	+659	-4
Base Anhydrite	1720	1717	+618	FL
Topeka	3366	3364	-1029	+2
Heebner	3598	3598	-1263	FL
Toronto	3616	3614	-1279	-1
LKC	3636	3635	-1300	+1
BKC	3884	3880	-1545	+2
Marmaton	3949	3946	-1611	+3
Cherokee Sh	3988	3986	-1651	+3
Re-worked Arbuckle	3998	3998	-1663	Absent
Arbuckle	4013	4011	-1676	-1
Total Depth	4108	4107	-1772	

Reference Well For Structural Comparison — Landes Exploration & Sentinel Resources
Dinkel #1_____SE NW SW_____Sec. 25-13s-21w

Drilling Contractor		Discovery Drilling, Rig #4		
Commenced	6-2-18	Completed		6-9-18
Samples Saved From		3350	To	RTD
Drilling Time Kept From		3250	To	RTD
Samples Examined From		3350	To	RTD
Geological Supervision From		3350	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