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

Operator	Downing-Nelson Oil Co., Inc.	Elevation KB	2205
Lease	Deutscher-Schoenthaler Unit	No. 1-3	DF 2203
API #	15-195-23006-0000	GL 2197	
Field	Ellis West	Casing Record Surface	8-5/8" @ 220'
Location	960' FNL & 1350' FEL	Production	5 1/2" @ 3930'
Sec. 3	Twp. 13s	Rge. 21w	Electrical Surveys CNDL, DIL, MEL
County Trego	State Kansas		

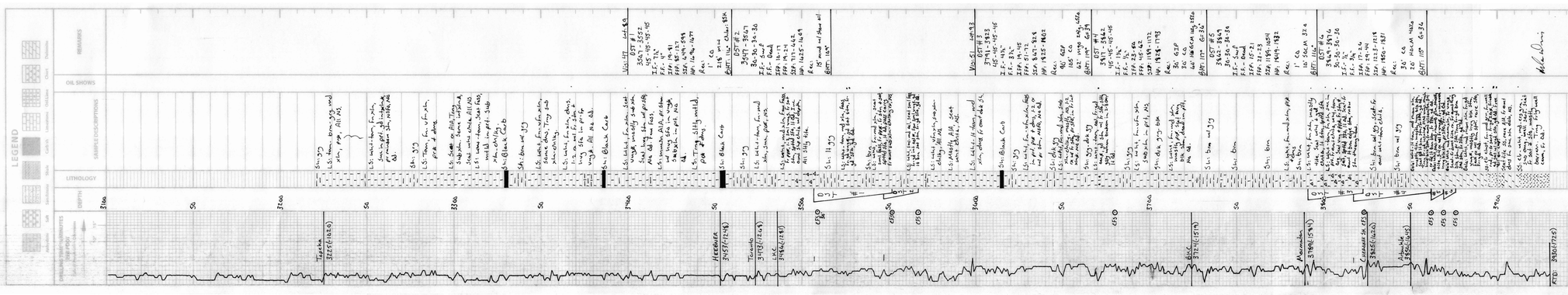
Formation	Sample tops	Log Tops	Datum	Struct Comp
Top Anhydrite	1565	1564	+641	+5
Base Anhydrite	1605	1605	+600	+8
Topeka	3225	3225	-1020	+9
Heebner	3453	3454	-1249	+13
Toronto	3473	3474	-1269	+14
LKC	3486	3488	-1283	+13
BKC	3724	3724	-1519	+23
Marmaton	3789	3790	-1585	+23
Cherokee Sh	3825	3826	-1621	+23
Arbuckle	3850	3850	-1645	
Total Depth	3930	3931	-1726	

Reference Well For Structural Comparison **DNOC1**
Harold Deutscher #1-3 **1286' FNL & 2030' FEL** **Sec. 3-13s-21w**

Drilling Contractor	Discovery Drilling, Rig #2		
Commenced	6-25-16	Completed	7-4-16
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,

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