Marc A. Downing Consulting Petroleum Geologist	Geologic Report Drilling Time and Sample Log	
Operator **Downing-Nelson Oil Co., Inc.**		Elevation KB 2222 DF 2220 GL 2214
Lease **LASEBA UNIT**	No. **1-4**	
API # **15-195-23039-0000**		Casing Record Surface 8 5/8" @ 221' Production 5 1/2" @ 3888'
Field **Spring Creek**		
Location **260' FNL & 1425' FWL**		Electrical Surveys None
Sec. **4** Twp. **13s** Rge. **21w**		
County **Trego** State **Kansas**		

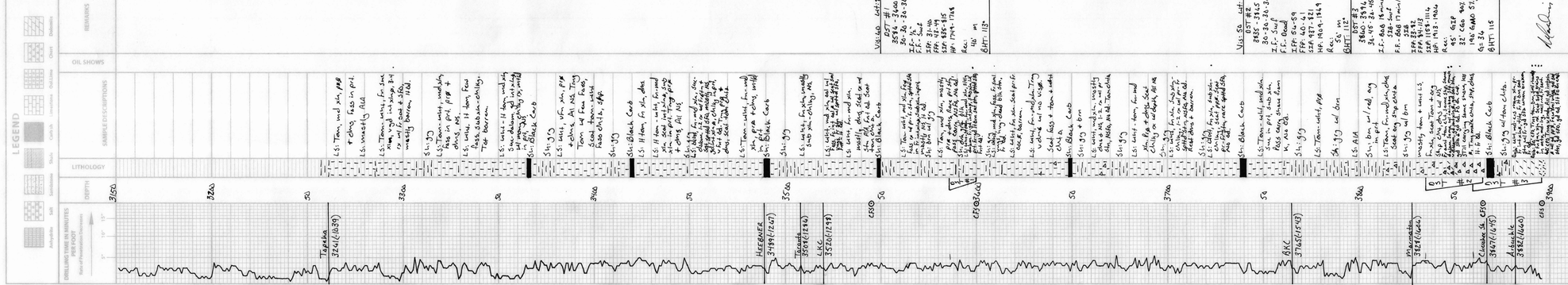
Formation	Sample tops	Log Tops	Datum	Struct Comp
Top Anhydrite	1628		+584	-15
Base Anhydrite	1676		+546	NA
Topeka	3261		-1039	FL
Heebner	3489		-1267	-1
Toronto	3508		-1286	FL
LKC	3520		-1298	-1
BKC	3765		-1543	NA
Marmaton	3828		-1606	-1
Cherokee Sh	3867		-1645	NA
Arbuckle	3882		-1660	+2
Total Depth	3896		-1674	

Reference Well For Structural Comparison **Iver Addis - Lang #1**
NE/NE/NW Sec. 4-13s-21w

Drilling Contractor	**Discovery Drilling, Rig #4**		
Commenced **3-22-18**	Completed	**3-28-18**	
Samples Saved From	**3250**	To	**RTD**
Drilling Time Kept From	**3150**	To	**RTD**
Samples Examined From	**3250**	To	**RTD**
Geological Supervision From	**3250**	To	**RTD**

Summary and Recommendations

Due to structural position, DST recovery, and sample evaluation, it was decided to set 5 1/2" production casing for open hole completion in the Arbuckle.

Respectfully Submitted,

Marc A. Downing