

Marc A. Downing		Geologic Report	
Consulting Petroleum Geologist		Drilling Time and Sample Log	
Operator <b>Downing-Nelson Oil Co., Inc.</b>		Elevation KB 2120 DF GL 2112	
Lease <b>Hogan Family Trust</b> No. 1-21		Casing Record Surface 8 5/8" @ 1189' Production 5 1/2" @ 4456'	
API # 15-145-21807-0000		Electrical Surveys CNDL, DIL, MEL, SONIC	
Field <b>Wildcat</b>		Location <b>564' FNL &amp; 335' FWL</b>	
Sec. 21	Twp. 23s	Rge. 18w	
County <b>Pawnee</b> State <b>Kansas</b>		Datum	
Formation	Sample tops	Log Tops	Struct Comp
Top Anhydrite	1178	1182	+938 -1
Base Anhydrite	1199	1199	+921 +1
Heebner	3732	3736	-1616 -6
Douglas Sh	3763	3767	-1647 -8
LKC	3847	3850	-1730 -5
BKC	4151	4155	-2035 -5
Fort Scott	4295	4301	-2181 -7
Conglomerate Sand	4347	4352	-2232 +4
Miss	4396	4402	-2282 -9
Gilmore City	4441	4445	-2325 FL
Total Depth	4460	4456	-2336
Reference Well for Structural Comparison Leta Faye #1-20		DNOCI 565' FNL & 1595' FEL Sec. 20-23s-18w	

Drilling Contractor	Discovery Drilling, Rig #2	
Commenced	8-21-15	Completed 9-5-15
Samples Saved From	3700	To RTD
Drilling Time Kept From	3600	To RTD
Samples Examined From	3700	To RTD
Geological Supervision From	3700	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.

During short trip for DST #1, a portion of the blocks broke while working a tight spot. The elevators hit the table, came open, and released the drill pipe down hole 600'. Only one DST was conducted due to hole conditions.

Respectfully Submitted,

Marc A. Downing

