

<b>Marc A. Downing</b>		<b>Geologic Report</b>	
<b>Consulting Petroleum Geologist</b>		<b>Drilling Time and Sample Log</b>	
<b>Operator Double D's LLC</b>		KB Elevation 2183	
Lease <b>Joe Waldschmidt</b>	No. 1	DF 2181	
<b>API # 15-051-26961-0000</b>		GL 2175	
<b>Field Pleasant</b>		<b>Casing Record</b>	
<b>Location 1415' FNL &amp; 1770' FWL</b>		Surface 8 5/8" @ 220'	
<b>Sec. 35 Twp. 13s Rge. 20w</b>		Production 5 1/2" @ 3907	
<b>County Ellis State Kansas</b>		<b>Electrical Surveys</b>	
<b>Formation</b>		<b>CNDL, DIL</b>	
<b>Sample tops</b>	<b>Log Tops</b>	<b>MEL</b>	
Top Anhydrite 1487	1485	Datum +698	
Base Anhydrite 1529	1526	Struct Comp +4	
Topeka 3197	3195	+6	
Heebner 3432	3430	-1247 +10	
Toronto 3452	3451	-1268 +10	
LKC 3474	3471	-1288 +10	
BKC 3728	3726	-1543 +6	
Marmaton 3768	3766	-1583 +9	
Arbuckle 3804	3803	-1620 +7	
Total Depth 3910	3908	-1725	
Reference Well For Structural Comparison <b>Cameron Reed - Storm #4</b>			
100' E & 90' S of C-SE-NW, Sec. 35-13s-20w			

Drilling Contractor <b>Discovery Drilling, Rig #4</b>	Completed <b>9-5-19</b>
Commenced <b>8-29-19</b>	To <b>RTD</b>
Samples Saved From <b>3200</b>	To <b>RTD</b>
Drilling Time Kept From <b>3100</b>	To <b>RTD</b>
Samples Examined From <b>3200</b>	To <b>RTD</b>
Geological Supervision From <b>3200</b>	To <b>RTD</b>

**Summary and Recommendations**

Due to structural position, DST recovery, and log evaluation, it was decided to set 5 1/2" production casing for completion.

Perforations:  
 Arbuckle: 3834-3836 (First, squeeze if wet)  
 3825-3827 (squeeze if wet)  
 3809-3918 (DST #3)  
 LKC K: 3671-3674  
 J: 3654-3658  
 D: 3520-3524  
 A: 3473-3476

Respectfully Submitted,

Marc A. Downing

**ROCK TYPES**  
 shale, gry  
 Carbon Sh

**ACCESSORIES**  
 Dolprim  
 Lmsr (w/7)

**MINERAL**  
 Chert, dark  
 Chert, white

**STRINGER**  
 Dolomite  
 Sandstone  
 red shale  
 carb shale

**OIL SHOWS**  
 Even Stn  
 Spotted Stn 50 - 75 %  
 Spotted Stn 25 - 50 %  
 Spotted Stn 1 - 25 %  
 Dues in Oil Stn  
 Fluorescence

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

**OTHER SYMBOLS**  
 DST Int  
 DST alt  
 Core  
 Tail pipe

Printed by GEOstrip\_VC Striplog version 4.0.8.16 (www.grsi.ca)

**Geological Descriptions**

Oil Shows

Lithology

DST

Curve Track #1

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