

APT. # 15-065-23737-00-00

GEOLOGICAL REPORT DRILLING TIME AND SAMPLE LOG

<p>COMPANY <u>Baird Oil Company, LLC.</u></p> <p>LEASE <u>Merlin Worcester #1-11</u></p> <p>FIELD <u>Wildcat</u></p> <p>LOCATION <u>480'FNL + 1030'FWL</u></p> <p>SEC <u>11</u> TWS <u>7s</u> RGE <u>22W</u></p> <p>COUNTY <u>Graham</u> STATE <u>Kansas</u></p>	<p style="text-align: center;">ELEVATION</p> <p>KB <u>2197'</u></p> <p>DF <u>2195'</u></p> <p>GL <u>2192'</u></p> <p>Depths Measured From Log <u>KB</u> Drilling <u>KB</u></p>
<p>CONTRACTOR <u>WW Drilling Rig #8</u></p> <p>SPUD <u>8-2-11</u> COMP <u>8-9-11</u></p> <p>SAMPLES SAVED FROM <u>3150'</u> TO <u>R.T.D.</u></p>	<p style="text-align: center;">CASING</p> <p>Surface <u>8 5/8" @ 231'</u></p> <p>Production <u>none</u></p>
<p style="text-align: center;">ELECTRIC LOGS</p> <p style="text-align: center;"><i>Superior Well Services</i></p>	

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE	E. LOG	DATUM	A	B	C	D
			<i>E. log</i>	●			
<u>Anhydrite</u>	<u>1846</u>	<u>1841 +</u>	<u>356</u>				
<u>Base Anhydrite</u>	<u>1878</u>	<u>1873 +</u>	<u>324</u>				
<u>Topeka</u>	<u>3205</u>	<u>3202 -</u>	<u>1006</u>	<u>-1004</u>			
<u>Heebner</u>	<u>3401</u>	<u>3399 -</u>	<u>1202</u>	<u>-1203</u>			
<u>Toronto</u>	<u>3425</u>	<u>3423 -</u>	<u>1226</u>	<u>-1225</u>			
<u>Lansing</u>	<u>3443</u>	<u>3441 -</u>	<u>1244</u>	<u>-1242</u>			
<u>Base Kansas City</u>	<u>3631</u>	<u>3629 -</u>	<u>1432</u>	<u>-1427</u>			
<u>Marmaton</u>	<u>3670</u>	<u>3669 -</u>	<u>1472</u>	<u>-1470</u>			
<u>Basal Penn Sand</u>	<u>3697</u>	<u>3696 -</u>	<u>1499</u>	<u>-1492</u>			
<u>Total Depth</u>	<u>3770</u>	<u>3770 -</u>	<u>1573</u>	<u>-1558</u>			

REFERENCE WELLS

A <u>Black Diamond Oil, Inc., White #1, 470'FNL + 1900'FWL Sec. 11-7S-22W</u>
B
C
D