

A.P.I. # 15-065-23968-00-00

**GEOLOGICAL REPORT**  
DRILLING TIME AND SAMPLE LOG

COMPANY R.L. Investment, L.L.C.  
 LEASE Hanna #1-18  
 FIELD Gurk  
 LOCATION 653' ENL + 335' EFL  
 SEC 18 TWSP 10S RGE 25W  
 COUNTY Graham STATE Kansas

ELEVATION  
 KB 2532'  
 DF 2530'  
 GL 2524'  
 Depths Measured From  
 Log KB Drilling KB

CONTRACTOR W.W. Drilling Rig #12  
 SPUD 8-20-13 COMP 8-27-13  
 SAMPLES SAVED FROM 3500' TO R.T.D.

CASING  
 Surface 8 5/8" @ 219'  
 Production 5 1/2"

ELECTRIC LOGS  
Nabors

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE	E. LOG	DATUM	A	B	C	D
			<u>E. log</u>				
<u>Anhydrite</u>	<u>2152</u>	<u>2152</u>	<u>+ 380</u>	<u>+ 382</u>	<u>+ 391</u>		
<u>Base Anhydrite</u>	<u>2184</u>	<u>2184</u>	<u>+ 348</u>	<u>+ 345</u>	<u>+ 352</u>		
<u>Topeka</u>	<u>3537</u>	<u>3537</u>	<u>-1005</u>	<u>-1004</u>	<u>-1002</u>		
<u>Heebner</u>	<u>3753</u>	<u>3753</u>	<u>-1221</u>	<u>-1218</u>	<u>-1217</u>		
<u>Toronto</u>	<u>3775</u>	<u>3775</u>	<u>-1243</u>	<u>-1239</u>	<u>-1240</u>		
<u>Lansing</u>	<u>3791</u>	<u>3791</u>	<u>-1259</u>	<u>-1256</u>	<u>-1256</u>		
<u>Base Kansas City</u>	<u>4026</u>	<u>4026</u>	<u>-1494</u>	<u>-1493</u>	<u>-1492</u>		
<u>Total Depth</u>	<u>4075</u>	<u>4075</u>	<u>-1543</u>	<u>-1547</u>	<u>-1823</u>		

REFERENCE WELLS

- A R.L. Investment, LLC, Bollig 'A' #1, 1304' ENL + 1000' EWL Sec. 17-10S-25W
- B American Eneriges Corp.; Bollig #1, NW-SW-NW Sec. 17-10S-25W
- C
- D

REMARKS


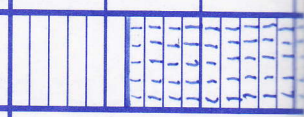
This well ran 3 feet lower on the casing top than the reference wells. After evaluating pertinent information it was decided production casing would be cemented to further test the well. The zones from 3869'-3872', 3829'-3831' and 3820'-3823' should be tested.

Richard B. Bell  
8-27-13

7502

LEGEND

-   
Anhydrite
-   
Salt
-   
Sandstone
-   
Shale
-   
Carb sh
-   
Limestone
-   
Ool. Lime
-   
Chert
-   
Dolomite

DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Decreases	DEPTH	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
	<p>2140</p> <p>60</p>			

LOG 7710