

15-017-20888

21-18S-6E

**GEOLOGISTS REPORT**

**For**

**LIPS #3-21**

990 FSL 3300 FEL  
C, N 1/2, SE 1/4, SW 1/4,  
Sec. 21, T18S, R6E  
**CHASE COUNTY, KANSAS**

**API 15-017-20888-00-00**

Elev GL 1478  
Elev KB 1483

**JULY, 2006**

**By**

**George E. Petersen, R.G., C.P.G.  
DEACON GEOLOGY INC.**

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29-81-12

**GEOLOGISTS REPORT: Lips 3-21**

**July 12, 2006: On location at 8:30 AM awaiting driller. Began drilling at 10:45 AM.**

**July 13, 2006: On location at 8:45 AM. Drilling ahead from 1341'**

**July 14, 2006: On location at 8:45 AM. Left rig at 3:30 PM.**

**July 17, 2006: On location at 11:00 AM. Left rig at 4 PM.**

**July 18, 2006: Rig fishing for lost cones. Completion on Oborny #1.**

**July 19, 2006: Unable to finish well due to debris at bottom. Left location when logging completed at 11:00PM.**

**All measurements from a ground level elevation of 1480'.**

<b>FORMATION</b>	<b>LOG</b>		<b>LIPS</b>	<b>LIPS</b>
	<b>DEPTH</b>	<b>DATUM</b>	<b>2-22</b>	<b>1-22</b>
<i>U. Admire Sd.</i>	<i>Not developed in this well</i>			
<i>L. Admire Sd.</i>	<i>Not developed in this well</i>			
<i>Severy Sh</i>	921	+557	+560	+570
<i>Severy Sd</i>	962	+518	+537	+544
<i>Oread Ls.</i>	1288	+192	+224	+230
<i>Heebner Sh.</i>	1319	+161	+192	+198
<i>Toronto</i>	1332	+148	+180	+184
<i>Ireland Sd.</i>	<i>Not developed in this well</i>			
<i>Douglas Sd</i>	<i>Not developed in this well</i>			
<i>Lansing Gp.</i>	1530	- 50	- 44	- 26
<i>KC</i>	1754	-274	-262	-253
<i>Dennis Ls</i>	1792	-312	-300	-296
<i>Stark sh.</i>	1836	-344	-334	-328
<i>Swope Ls</i>	1830	-350	-338	-330
<i>Hushpuckney Sh</i>	1852	-372	-358	-348
<i>Hertha Ls</i>	1857	-377	-362	-352
<i>B/KC</i>	1880	-400	-385	-386
<i>RTD 1955, LTD 1955</i>				

**Sample returns were examined microscopically for the presence of visible hydrocarbons through intervals where potential pay zones were anticipated. Formation tops for this report were picked from the Compensated Neutron Density Log. Due to an error on the depth shown on the geolograph all tops and intervals were based on the log response.**

**ADMIRE IRELAND, and DOUGLAS SANDS:**

**These sand intervals that are normally present throughout the area were missing or undeveloped in this well. Further study of the well logs from this field will need to be compared to those sections to form a reasonable explanation as to why these sands are not present.**

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**LANSING/KANSAS CITY GROUPS:**

*The top of the Lansing was picked after comparison of the entire sequence of Kansas City to Lansing sections in the Lips 1-22 and 2-22. There is an apparent additional limestone interval above the normal called top. This extra interval is approximately 30' thick. Whether this thickness is the result of faulting or this interval having been removed by some erosional process in surrounding wells is yet to be determined.*

**CONCLUSIONS AND RECOMMENDATIONS:**

*There were no pay intervals encountered in the drilled portion of this well. Due to problems encountered during the drilling of this well the Marmaton, Cherokee, Simpson horizons were not penetrated.*

*There was a slight problem due to the failure to record one joint of drill pipe on the geograph which caused some confusion when trying to establish log tops while drilling. This missing 20 feet was not discovered until the logger recorded a depth of 20 feet deeper than the depth shown on the geograph.*

*It is suggested that the mud program be evaluated as to whether there needs to be any additional chemicals added to better clean the hole and carry samples to surface in a timely manner. The questions regarding the appropriate jet size to use in the bits as well as an optimum rpm rate to obtain the best rate of penetration along with pump pressures and/or rate need to be addressed. These questions need to be evaluated by a drilling engineer or someone who deals with these matters.*

*Additional map adjustments and re-evaluation of the log tops and log signatures need to be done to reflect the information obtained from this well and future wells. Conversations with another well site geologist on another location led both of us to believe there are indications of a very complex geological sequence of beds that may have been controlled by faulting and erosional processes that were present during the uplift of the Nemaha uplift.*

**DISCLAIMER:**

*The author of this report has no working or over riding royalty interest in this well.*



Licensed Geologist, Kansas  
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