# WAYNE LEBSACK PETROLEUM GEOLOGIST 603 S. Douglas LYONS, KS. 67554

#### Geological Report

Lebsack 0il Production Box 489 Hays, Kansas 67601

VanDoren Tr. #2-14 Sec. 14-T21s-R35w Kearney Co. Ks.

Contractor

Abercrombie RTD

Date Spudded

September 19 1997

Date Rotary Completed.

September 27 1997

Total Depth

4970'

Casing

Surface 8115/8" @ 258'

Elevations

Ground Lewel 3084' Zero & K.B. 3089'

Samples

2400' to 2800' 3400' to T.D.

Logs

Gas Detector, Halliburton Micro, Dual Induction &

Density-Neutron

### Geological Formation Tops

	Formation	Drilling Depth	Electric-Log Depth	Sub-Sea Depth	
	Heebner	3932	3925	-836	
	Lansing	3984	3971	-882	
	Base of K.C.	4450	4447	-1358	
•	Marmaton	4486	4474	-1385	
	Cherokee	4603	4603	-1514	
	Morrow Shale	4808	4 <b>806</b>	-1717	
	Morrow Sand	4865	4863	-1774	
	Mississippi	4874 ·	4873	-1784	
	T.D.	4970	4968	-1879	

#### INTERVALS OF INTEREST

Marmaton Group	- No Shows		
Cherokee	,		
4672' -82' -	White fine crystalline (granular) limestone, w/trace of light oil staining. Log porosity - 9%		
D.S.T. No. 2 4750-79 (Straddle Test)	Tool was open 30/min. closed 60/min. Very weak blow-died in 13/min. Recovered 5' mud Flow pressure - 20/20 psi Final Flow Pressure 1464 psi		
Morrow Sand			
4863–69'	clear, very fine grained well sorted sand, with trace of light oil stain. Log porosity 15%		
D.S.T. No. 1 4790-4880'	Tool was open 30/min. closed 60/min. Very weak blow, died in 20/min. Recovered 30 feet, slightly oil cut mud, w/good show of oil in tool. Flow pressure - 30/34 psi Final Flow Pressure 501 & building psi		
Mississippi	- No Shows		

SUMMARY	
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#### Structural Comparisons

FORMATION	Van Doren 2-14 This well	Van Doren 1-14 NE/Offset Morrow weil	Scott 4-14 2/locations NE Morrow Well
Lansing	-882	-892	-866
Cherokee	-1514	<b>-1525</b>	-1514
Morrow Sand	-1774	-1781	-1777
Mississippi	-1784	· <b>-1803</b>	-1794

The samples & electric logs indicated a thin oil pay interval in the Morrow. The drill stem test indicated, a low permeable pay zone, and probably a marginal oil well. The structural attitude and electric-logs indicate a sand pinchout, immediately South of the Van Doren #2-14; therefore, future development drilling will be to the North and West, depending on structural mapping - based on seismic data.

The Van Doren #2-14 was plugged and abandoned as a dry hole.

Submitted by

Wayne Lebs ck Petroleum eologist

## LEBSACK OIL PRODUCTION, INC.

BOX 489 HAYS, KANSAS 67601 (913) 625-5444

DRILLING CONTRACTOR: Abercrombie RTD; Inc. 150 N. Main, Suite #801 Wichita, KS 67202-1383

Rig #4

Walt Brown, Tool Pusher

316-793-4884 Home;

Rig #4 Phone #'s:

(316) 792-9906 Doghouse

<u>LOCATION</u>

**VANDOREN TRUST 2-14** 

C SE/4

Sec. 14 21's-35w

Kearny County, Kansas

Field: Christabelle

API#

Elevations: GL = 3084', KB = 3089'

Geologist: Wayne Lebsack

DIRECTIONS TO LOCATION:

NOTE!!!

Stay on Right-of-Way

!!!! Tight Hole !!! .

The following are the geological requirements for the referenced well:

2400' to 2900' - 20' Dry samples are requested. SAMPLES: From:

2900' to TD - 10' Dry samples are requested. Samples

should be washed thoroughly, dried and tied in 100' bundles. All bags should be properly labeled.

SPECIAL EQUIPMENT: A Gas/Logging Detector will be used on this well. Have it on location and operating by 2400'. Mark all connections on both charts from 2400' to RTD. Clean out the extractor breather hole every 4 hours, and mark

all light plant checks on the graph(s).

Keep a written record of 1' drilling time from 2400' to TD. Complete DRILLING TIME: headings, date each sheet, note all mud checks, and note any roughness in drilling on the drilling time sheet. Make sure the date and the (am/pm) is written on the header of each drilling time sheet. Use 1/2

minutes!

MUD: Have mud in condition for good sample returns by approximately 3700.

We want an 10 or less water loss before entering the Marmaton at 4400'.

CHECK DEPTH: A straight hole check should be run on the first DST. The drill pipe should also be strapped at this time. An additional straight hole test

should be run at TD.

CALL DEPTH: Call the geologist when you have reached a depth of 3900.

STOP POINT: Stop and circulate for samples if the geologist has not been on location

by 4800'

ANTICIPATED TOPS: -

2150' Anhydrite ' Topeka · 3970' Lansing 4880' Morrow SS 2200' B/Anhydrite 3930' Heebner Sh 4428' BKC 4905' Miss.

4596' Cherokee 5000' Est. RTD

SERVICE COMPANIES: Cement ....: Testing ....: Gas Det. ...: MBC (316) 873-2953 Pipe .....:

Mud ....: Logging ....: PHONE NUMBERS:

1st call: Wayne Lebsack (316) 257-3825 (Home) (316) 938-2396 (Work) Cellular (785) 224-3712 2<sup>nd</sup> call: Steve McClain (316) 672-5417 (Home) (316) 672-9508 (Work) Cellular (316) 546-3253