

WAYNE LEBACK
PETROLEUM GEOLOGIST
603 S. Douglas
Lyons, Kansas 67554

December 7, 1993

GEOLOGICAL REPORT

Leback Oil Production, Inc.
P.O. Box 489
Hays, Kansas 67601

L. R. Kester No. 2-18
990' F.S.L. & 850' F.W.L.
Section 18-21s-34w
Finney Co., Kansas

Contractor	Abercrombie RTD, Inc.
Spud Date	November 20, 1993
Date Completed	November 28, 1993
Total Depth	4900'
Elevations	3044 G.L. — 3049 K.B.
Measurement Zero	Kelly Bushing K.B.
Casing	8-5/8" @ 303'
Logs	Earth Tech Gas Detector, Halliburton Dual Induction Micro & Density-Neutron

Intervals of Interest - E- Log Depths

Fort Scott

4556-62

White oolitic-oolicastic limestone, no shows.
E-Log porosity - 15% - Wet

Morrow Sands

4808' - 13'

Clear/white fine grained calcareous sand, with
light staining and trace of free oil. E- log

4823' - 29'

porosity 12-15%, E-Log calculated three feet of pay -
4425-28'. Gas detector log 28-units.

DST. # 1

4800' - 35'

Testing time 30"-45"-60"-90"

There was a weak steady blow thru-out test. The
recovery was 5' of slightly oil specked mud.

Pressures: I.F. 110/60; F.F. 120/66

I.S.I.P. - 475- F.S.I.P. - 508

Mississippi

4832' - T.D.

White, sandy, oolitic limestone. No shows. E-log
porosity 2 - 4%

Geological Formations

Formation	Drillers Depth	E-Log Depth	Sub-Sea Depth E-Log
Heebner	3875	3869	- 820
Lansing	3926	3913	- 868
BKC	4419	4411	- 1362
Marmaton	4444	4437	- 1388
Cherokee	4574	4568	- 1519
Morrow	4782	4776	- 1727
Morrow Sands	4814	4808	- 1759
Mississippi	4838	4832	- 1783

SUMMARY

<u>Comparisons</u>	L.O.P. L.R. Kester #2-18 This well	L.O.P. L. R. Kester #1-18 N.E. Offset Morrow Oil	N ARCO Ruth Kester East Offset Morrow oil
<u>Formation</u>			
Lansing	- 868	- 883	- 877
Morrow Sands	- 1759	- 1775	- 1773
Mississippi	- 1783	- 1787	- 1789

The samples, electric logs and drill stem test indicate a very thin oil sand in the Morrow. It was recommended that the well be abandoned as a non-commercial well.

Submitted by

Wayne Lebsack

LEBSACK OIL PRODUCTION, INC.

Box 489
Hays, Kansas 67601

DRILLING CONTRACTOR: Abercrombie RTD, Inc. 801 Union Center Wichita, Kansas 67202 Attn: Mark Galyon Fax #: (316) 262-6694 Rig #8 Tony Martin Rig Phone #: (316) 793-2808	LOCATION: L.R. Kester 2-18 990' FSL & 850' FWL of Section Sec. 18 21s-34w Finney County, Kansas Field: Christabelle API#	DIRECTIONS TO LOCATION: 10 miles west of Friend on the blacktop, then 2 miles south, then 1 mile west then south 1/2 mile and east into.
	ELEVATIONS: GL = 3044' KB = 3049'	
	GEOLOGIST : Wayne Lebsack	

The following are the geological requirements for the referenced well:

SAMPLES: From: 2500' to 2900' - 20' Dry samples are requested.
2910' to 3790' No samples are requested.
3800' 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 2200'. Mark all
connections on both charts from 2200' to RTD.

DRILLING TIME: Keep a written record of 1' drilling time from 2100' to 2200' (Anhydrite), 2500' to 2900', and 3700' to TD.
Complete 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.

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

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 geologists when you have cut the Anhydrite and 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: 2125' Anhydrite 3930' Lansing 4596' Cherokee Shale 4850' Mississippian
2162' B/Anhydrite 3885' Heebner Shale 4415' BKC 4795' Morrow Shale 4950' RTD
2650' Chase Group 4445' Marmaton 4820' Morrow Sandstone

SERVICE COMPANIES: Cement EarthTech Testing Western (Lanny in G. City)
Gas Det. Pipe Lebsack Oil Production, Inc.
Mud Logging HLS

PHONE NUMBERS: Wayne Lebsack (316) 257-3825 (Home) (316) 938-2396 (Work) Cellular (316) 793-2198 1st call
Rex Curtis (913) 625-3973 (Home) (913) 625-3046 (Work) 2nd call

Sincerely,

Wayne Lebsack

ANhy 2141 - 2160

3049	3049
2141	2160
+9.08	→ 7889

Nov. 29. - 3460

H 3825

L 3926

BKC 4419

MORM 4444

Chero 4574

Morrow - 4782

Sd. - 4814 #18-20'

Mira