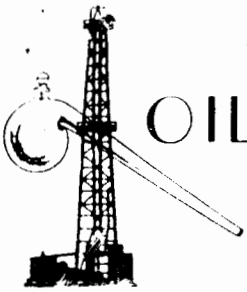


9-24-16E



# OILFIELD RESEARCH LABORATORIES

P.O. BOX 647 - 536 N. HIGHLAND - CHANUTE, KANSAS 66720 - PHONE (316) 431-2650

October 11, 1990

Lancer Oil, Inc.  
P. O. Box 34  
Piqua, KS 66761

AME 15-207-25764

Gentlemen:

Attached hereto are the results of tests run on the rotary core taken from the Glades Lease, Well No. 41-W, located in Section 9, T24S, R16E, Woodson County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and submitted to our laboratory on October 2, 1990.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

*Alan M. Dunning*

Alan M. Dunning

AMD:bl

5 c Piqua, KS

9-24-16E

Glades 41-W

COMPANY Lancer Oil Inc. FARM Glades WELL NO. 41 W

SEC. 9 TWP. 24 RGE. 16 LOC. COUNTY Woodson STATE Kansas

CONTRACTOR Fleming Drilling, Inc. SIZE HOLE 5 1/8" DRILL PIPE

REMARKS: SIZE PUMP LINERS LENGTH STROKE

DATE 10-1-90

DEPTH	TIME O'CLOCK	MIN.	REMARKS
960	3.59		
61	54	4.50	lime
62	56/60	2.20	
63	58.15	2.05	
64	40.50	2.40	
65	3.10	2.00	oil sand
66	4.40	1.30	
67	6.40	2.00	
68	7.45	1.05	
69	8.55	1.10	
70	10.20	1.25	
71	13.50	2.20	
72	17.35	3.45	lam oil sand
73	20.15	2.40	
74	24.20	4.05	
75	28.30	4.10	
76	33.50	4.20	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
1005	11.12	45	2.20 shale
06	15.05		
07	19.05		4.00
08	23.10		4.05
09	26.45		3.35 lime
10	28.50		2.05
11	32.00		3.10
12	34.50		2.50
13	37.35		2.45
14	40.35		3.00
15	43.45		3.10
16	46.45		3.00 oil sand
17	49.25		2.40
18	52.30		3.05
19	55.15		2.45
20	59.00		3.45
21	02.30		3.30
22	06.20		3.50 shale
23	11.00		4.40

2014

LOG

Company Lancer Oil, Inc. Lease Glades Well No. 41-W

UPPER SQUIRREL SANDSTONE

<u>Depth Interval, Feet</u>	<u>Description</u>
960.0 - 962.1	Limestone, gray, shaly.
962.1 - 963.6	Sandstone, grayish brown, shaly with scattered shale and mica partings.
963.6 - 964.9	Sandstone, brown.
964.9 - 965.3	Sandstone, brown with widely scattered shale partings.
965.3 - 969.3	Sandstone, brown.
969.3 - 972.3	Sandstone, grayish brown, shaly with scattered shale and mica partings.
972.3 - 975.0	Shale, gray with scattered grayish brown shaly sandstone layers.

LOWER SQUIRREL SANDSTONE

1005.0 - 1008.0	Shale (Discarded at well site).
1008.0 - 1008.5	Sandstone, brown, slightly calcareous with scattered shale and mica partings and inclusions.
1008.5 - 1009.1	Shale, gray with scattered brown sandstone partings.
1009.1 - 1010.3	Sandstone, brown, slightly calcareous with widely scattered shale and mica partings and inclusions.
1010.3 - 1010.8	Sandstone, dark brown, shaly with scattered shale and mica partings.
1010.8 - 1016.2	Sandstone, dark brown with widely scattered shale and mica partings and inclusions.
1016.2 - 1017.0	Sandstone, dark brown.
1017.0 - 1020.0	Sandstone, dark brown with widely scattered shale and mica partings.

LOG

Company Lancer Oil, Inc. Lease Glades Well No. 41-W

LOWER SQUIRREL SANDSTONE (Continued)

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
1020.0 - 1020.7	Shale and sandstone, gray and dark brown, alternate layers.
1020.7 - 1021.1	Sandstone, dark brown, shaly, slightly calcareous.
1021.1 - 1021.3	Shale, gray with scattered brown sandstone partings.
1021.3 - 1021.6	Sandstone, dark brown, shaly, slightly calcareous.
1021.6 - 1023.4	Shale, gray with widely scattered brown sandstone partings.

# Oilfield Research Laboratories

## RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1

Company Lancer Oil, Inc. Lease Glades Well No. 41-W

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbls. / A. Ft.	Permeability, Millidarcys
			Oil	Water	Total		
<u>UPPER SQUIRREL SANDSTONE</u>							
1	962.7	16.3	38	43	81	481	3.1
2	963.5	16.5	38	44	82	486	5.1
3	964.5	18.0	40	38	78	559	29.
4	965.6	17.2	39	40	79	520	25.
5	966.5	17.4	37	41	78	499	28.
6	967.5	15.4	48	34	82	574	7.4
7	968.5	17.2	53	26	79	707	20.
<u>LOWER SQUIRREL SANDSTONE</u>							
8	1009.4	14.7	47	35	82	536	11.
9	1010.4	14.5	55	36	91	619	0.95
10	1011.5	19.1	42	36	78	622	46.
11	1012.4	18.9	50	31	81	733	40.
12	1013.4	19.2	51	33	84	760	25.
13	1014.4	19.3	44	34	78	659	46.
14	1015.5	18.9	53	29	82	777	39.
15	1016.5	19.7	54	26	80	825	56.
16	1017.5	22.2	53	25	78	913	81.
17	1018.6	20.4	57	25	82	902	59.
18	1019.7	19.4	52	21	73	783	55.