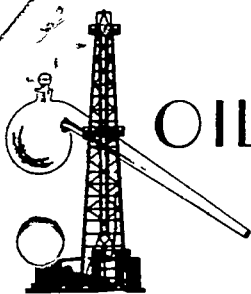


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# OILFIELD RESEARCH LABORATORIES

P.O. BOX 647 - 536 N. HIGHLAND - CHANUTE, KS 66720 - PHONE (316) 431-2650 - FAX (316) 431-2671



June 29, 1992

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

Gentlemen:

Attached hereto are the results of tests run on the rotary core taken from the Taylor Lease, Well No. 71, located in Section 23, T28S, R18E, Neosho County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and submitted to our laboratory on June 18, 1992.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

*Alan M. Dunning*  
Alan M. Dunning

AMD:bl

5 c Piqua, KS

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CHANUTE, KANSAS

- REGISTERED ENGINEERS -

GE ANALYSIS - WATER ANALYSIS - REPRESSURING ENGINEERING - SURVEYING & MAPPING - PROPERTY EVALUATION & OPERATION

LOG

Company Lancer Oil, Inc. Lease Taylor Well No. 71

CATTLEMAN SANDSTONE

<u>Depth Interval, Feet</u>	<u>Description</u>
761.0 - 762.4	Limestone, light gray, sandy.
762.4 - 763.1	Sandstone, very light brown, very shaly.
763.1 - 763.7	Sandstone and shale, light gray and gray, laminated.
763.7 - 767.3	Sandstone and shale, very light brown and light gray, laminated.
767.3 - 768.6	Sandstone, very light brown, very shaly with widely scattered shale partings.
768.6 - 769.3	Sandstone and shale, light gray and gray, laminated.
769.3 - 771.6	Sandstone, very light brown, shaly with scattered shale partings.
771.6 - 772.7	Sandstone, light brown, shaly with widely scattered shale inclusions and containing a vertical fracture.
772.7 - 773.0	Sandstone and shale, light brown and gray, alternate layers.
773.0 - 773.8	Sandstone, light brown, shaly with scattered shale inclusions.
773.8 - 774.2	Sandstone and shale, light brown and gray, laminated.
774.2 - 776.0	Sandstone, light brown, very shaly with widely scattered shale partings.
776.0 - 778.9	Sandstone, light brown.
778.9 - 779.3	Sandstone and shale, light brown and gray, laminated.
779.3 - 780.0	Sandstone, very light brown, very shaly with widely scattered shale partings.

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## RESULTS OF SATURATION &amp; PERMEABILITY TESTS

TABLE 1

Company Lancer Oil, Inc. Lease Taylor Well No. 71

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbls. / A. Ft.	Permeability, Millidarcys
			Oil	Water	Total		
1	767.6	13.3	29	53	82	299	0.21
2	768.5	15.6	22	43	65	266	2.4
3	769.7	15.8	27	51	78	331	3.3
4	770.4	16.2	31	45	76	390	5.1
5	771.7	17.7	19	51	70	261	6.4
6	772.5	14.4	31	63	94	346	1.7
7	773.4	15.6	20	61	81	242	3.9
8	774.6	16.2	29	59	88	365	1.4
9	775.5	14.9	22	61	83	254	1.1
10	776.5	18.3	29	47	76	412	9.6
11	777.5	17.7	29	48	77	398	6.1
12	778.5	17.8	23	50	73	318	5.9
13	779.6	14.5	14	64	78	158	1.3
14	780.5	16.1	22	58	70	275	7.8
15	781.4	16.3	33	49	82	417	4.9
16	782.4	15.1	26	56	82	307	4.3
17	783.4	16.2	30	57	87	377	1.1
18	784.5	16.6	20	55	75	258	2.3

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Company Lancer Oil, Inc. Lease Taylor Well No. 71

CATTLEMAN SANDSTONE Continued

<u>Depth Interval, Feet</u>	<u>Description</u>
780.0 - 781.0	Sandstone, light brown.
781.0 - 783.0	Sandstone, light brown, shaly with widely scattered shale partings.
783.0 - 786.5	Sandstone, very light brown, very shaly.
786.5 - 793.0	Sandstone, gray, very shaly.
793.0 - 802.0	Sandstone, shaly. No oil show (as reported by client). Discarded at well site.

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 Wichita Kansas

# Oilfield Research Laboratories

## RESULTS OF LABORATORY FLOODING TESTS

### TABLE IV

Company Lancer Oil, Inc. Lease Taylor Well No. 71

Sample No.	Depth, Feet	Effective Porosity Percent	Original Oil Saturation		Oil Recovery		Residual Saturation			Volume of Water Recovered cc*	Effective Permeability Milliarcys**	Initial Fluid Production Pressure Lbs./Sq./In.
			%	Bbls./A. Ft.	%	Bbls./A. Ft.	% Oil	% Water	Bbls./A. Ft.			
1	767.6	13.3	29	299	0	0	29	53	299	0	Imp.	-
2	768.5	15.4	22	263	0	0	22	44	263	0	Imp.	-
3	769.7	15.7	27	329	0	0	27	51	329	0	Imp.	-
4	770.4	16.2	31	390	0	0	31	46	390	0	Imp.	-
6	772.5	14.2	31	342	0	0	31	63	342	0	Imp.	50
7	773.4	15.6	20	242	0	0	20	61	242	0	Imp.	-
8	774.6	16.4	29	369	5	64	24	74	305	9	0.15	45
9	775.5	14.6	22	249	0	0	22	75	249	0	Imp.	-
10	776.5	18.7	29	421	5	73	24	72	348	12	0.26	50
11	777.5	17.4	29	391	7	94	22	76	297	6	0.15	50
12	778.5	17.8	23	318	0	0	23	73	318	4	0.13	50
13	779.6	14.5	14	157	0	0	14	65	157	0	Imp.	-
14	780.5	16.3	22	278	0	0	22	75	278	10	0.20	45
15	781.4	16.0	33	410	5	62	28	70	348	8	0.13	50
16	782.4	15.4	26	311	2	24	24	72	287	8	0.13	50
17	783.4	15.8	30	368	0	0	30	67	368	6	0.13	50
18	784.5	16.3	20	253	0	0	20	77	253	10	0.13	50

Note: Floodpot sample No. 5 unobtainable.

Notes: cc—cubic centimeter.

\*—Volume of water recovered at the time of maximum oil recovery.

\*\*—Determined by passing water through sample which still contains residual oil.

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