



# OILFIELD RESEARCH LABORATORIES

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

December 16, 1986

Kansas Oil Properties, Inc.  
R. 3, Box 189A  
Baldwin City, KS 66006

Gentlemen:

Attached hereto are the results of tests run on the rotary core taken from the Shephard II Lease, Well No. 4, located in Section 13, T14S, R20E, Douglas County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client, and submitted to our laboratory on December 9, 1986.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

*Alan M. Dunning*

Alan M. Dunning

AMD:bl

5 c to Baldwin City, KS

LOG

Company Kansas Oil Properties, Inc. Lease Shephard II Well No. 4

SECOND SQUIRREL SANDSTONE

<u>Depth Interval, Feet</u>	<u>Description</u>
685.0 - 686.4	Sandstone, brown containing a vertical fracture.
686.4 - 696.0	Sandstone, brown.
696.0 - 697.0	Sandstone, light brown.
697.0 - 699.0	Sandstone, light brown with widely scattered shale partings.
699.0 - 700.0	Sandstone, light brown.
700.0 - 701.0	Sandstone, brown.
701.0 - 704.0	Sandstone, light brown with scattered shale and mica partings.
704.0 - 706.4	Sandstone, brown with scattered shale and mica partings containing a vertical fracture.
706.4 - 711.0	Sandstone, brown.
711.0 - 712.0	Sandstone, brown containing a vertical fracture.
712.0 - 713.6	Sandstone, brown.
713.6 - 715.0	Sandstone, brown with widely scattered shale and carbonaceous partings.
715.0 - 718.8	Sandstone, brown.
718.8 - 719.5	Sandstone, brown with scattered shale and mica partings.
719.5 - 721.2	Sandstone, brown.
721.2 - 721.7	Limestone, light gray, sandy.
721.7 - 722.5	Sandstone, brown.

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Company Kansas Oil Properties, Inc. Lease Shepard II Well No. 4

SECOND SQUIRREL SANDSTONE (Continued)

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
722.5 - 722.9	Limestone, light gray, sandy.
722.9 - 725.8	Sandstone, brown.

# Oilfield Research Laboratories

## RESULTS OF SATURATION & PERMEABILITY TESTS

**TABLE 1**

Company Kansas Oil Properties, Inc. Lease Shephard II Well No. 4

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Stock Tank Barrels per Acre Foot	Permeability, Millidarcys
			Oil	Water	Total		
1	685.5	27.0	40	24	64	1,516	113.
2	686.5	26.6	31	30	61	1,376	76.
3	687.5	26.4	32	31	63	1,346	92.
4	688.5	26.3	33	29	62	1,380	93.
5	689.5	25.3	30	32	62	1,271	77.
6	690.5	25.7	36	28	64	1,367	69.
7	691.5	25.3	30	32	62	1,271	62.
8	692.5	24.7	32	32	64	1,241	65.
9	693.5	25.1	33	30	63	1,298	63.
10	694.5	25.6	31	33	64	1,267	81.
11	695.5	25.7	34	31	65	1,310	74.
12	696.5	25.3	28	38	66	1,159	61.
13	697.5	23.1	36	34	70	1,126	31.
14	698.5	23.5	32	35	67	1,129	26.
15	699.5	26.8	34	32	66	1,346	163.
16	700.5	19.4	43	50	93	717	18.
17	701.5	24.9	32	37	69	1,159	49.
18	702.5	25.5	31	34	65	1,243	87.
19	703.5	24.8	28	36	64	1,173	66.
20	704.5	25.2	32	32	64	1,266	91.
21	705.5	28.0	41	30	71	1,448	58.
22	706.6	28.0	29	31	60	1,427	77.
23	707.5	28.1	43	28	71	1,494	25.
24	708.5	28.9	42	27	69	1,559	60.
25	709.5	26.9	43	32	75	1,352	44.
26	710.5	27.7	34	31	65	1,412	56.
27	711.5	27.1	45	29	74	1,422	50.
28	712.5	28.9	38	27	65	1,559	36.
29	713.5	28.7	36	25	61	1,590	101.
30	714.5	27.4	35	26	61	1,498	63.
31	715.5	25.2	42	27	69	1,359	57.
32	716.5	26.5	47	25	72	1,468	73.
33	717.6	24.9	41	29	70	1,306	44.
34	718.5	26.1	40	28	68	1,388	24.
35	719.4	25.6	46	27	73	1,381	18.
36	720.5	26.0	38	31	69	1,326	17.
37	722.4	28.2	49	29	78	1,479	25.
38	723.5	26.0	51	20	71	1,537	108.
39	724.5	27.1	40	26	66	1,482	116.
40	725.4	29.1	38	32	70	1,462	205.