



# OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS 66720 - PHONE (316) 431-2650

September 25, 1981

Glenn Caldwell  
P. O. Box 42  
Garnett, Kansas 66032

Gentlemen:

Attached hereto are the results of tests run on the rotary core taken from the Feuerborn Lease, Well No. 4, located 1100' from the East Line and 660' from the South Line of the South  $\frac{1}{2}$  of the Southeast  $\frac{1}{4}$  in Section 16, T-20S, R-22E, in Linn County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and was submitted to our laboratory on September 18, 1981.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/kas

5 c to Garnett, Kansas

- REGISTERED ENGINEERS -

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

## OILFIELD RESEARCH LABORATORIES

LOGName Glenn Caldwell Lease Feuerborn Well No. 5

<u>Depth Interval, Feet</u>	<u>Description</u>
	<u>SQUIRREL SAND</u>
577.0 - 577.4	Gray sandy shale.
577.4 - 577.9	Brown sandstone.
577.9 - 578.3	Brown and gray laminated sandstone and shale.
578.3 - 578.7	Brown sandstone.
578.7 - 579.3	Gray shale.
579.3 - 582.0	Brown sandstone.
582.0 - 582.8	Light brown slightly shaly sandstone.
582.8 - 583.8	Brown and gray laminated sandstone and shale.
583.8 - 584.4	Brown shaly sandstone with fine micaceous partings.
584.4 - 584.9	Gray shale.
584.9 - 585.6	Brown shaly sandstone with fine micaceous partings.
585.6 - 586.9	Brown sandstone with very fine micaceous partings.
586.9 - 589.9	Gray and brown laminated shale and sandstone.
589.9 - 590.7	Brown sandstone with fine shale partings.
590.7 - 591.4	Gray and brown laminated shale and sandstone.
591.4 - 592.2	Brown sandstone.
592.2 - 592.6	Gray sandy shale.
592.6 - 593.0	Brown sandstone.
593.0 - 594.1	Gray and brown laminated shale and sandstone.
594.1 - 595.1	Brown sandstone.
595.1 - 599.2	Brown sandstone with fine micaceous partings.
599.2 - 601.6	Brown shaly sandstone with micaceous partings.
601.6 - 602.9	Brown sandstone with very fine micaceous partings.

## OILFIELD RESEARCH LABORATORIES

### LOG

-2-

602.9 - 607.0	Brown and gray laminated sandstone and shale.
607.0 - 608.7	Brown sandstone with micaceous partings.
608.7 - 609.0	Gray and brown laminated shale and sandstone.
609.0 - 609.4	Brown sandstone.

# Oilfield Research Laboratories

## RESULTS OF SATURATION & PERMEABILITY TESTS

### TABLE 1

Company Glenn Caldwell Lease Feuerborn Well No. 5

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbls. / A Ft.	Perm., Mill.
			Oil	Water	Total		
1	577.5	23.1	34	42	76	609	35.
2	578.4	21.8	31	39	70	524	23.
3	579.5	21.3	23	43	66	380	24.
4	580.6	21.0	57	14	71	929	90.
5	581.6	20.6	42	31	73	671	24.
6	582.5	17.1	29	50	79	385	6.8
7	583.5	14.9	24	51	75	371	Imp.
8	584.3	18.4	40	47	87	571	5.2
9	585.4	23.4	35	40	75	635	5.0
10	586.5	21.3	28	47	75	463	13.
11	587.5	15.8	39	57	96	478	1.9
12	588.4	14.5	31	67	98	349	3.1
13	589.5	16.5	21	63	84	269	3.0
14	590.5	21.7	44	42	86	741	21.
15	591.5	24.9	46	29	75	889	101.
16	592.7	17.9	35	45	80	486	13.
17	593.6	14.9	12	80	92	139	0.21
18	594.5	24.0	35	39	74	652	82.
19	595.5	20.3	23	49	72	362	23.
20	596.3	23.9	54	36	90	1001	17.
21	597.5	22.5	39	40	79	681	63.
22	598.5	21.7	30	43	73	505	24.
23	599.4	18.8	34	50	84	496	2.6
24	600.6	22.9	20	42	62	355	2.6
25	601.5	18.2	30	57	87	424	4.0
26	602.5	21.3	47	33	80	777	30.
27	603.4	18.5	28	53	81	402	5.7
28	604.6	18.2	24	56	80	339	6.2
29	605.6	16.6	24	69	93	309	1.4
30	606.5	18.1	28	61	89	393	4.0
31	607.5	19.9	27	60	87	417	10.
32	608.6	19.0	29	55	84	428	25.