



OILFIELD RESEARCH LABORATORIES

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

November 4, 1981

Four Way Oil Company
% Vic Leis
Box 223
Yates Center, Kansas 66783

Gentlemen:

Attached hereto are the results of tests run on the rotary core taken from the Estep Lease, Well No. N-3, located 165' North of the South Line and 165' East of the West Line in the Southwest $\frac{1}{4}$, of the Southwest $\frac{1}{4}$, of the Northwest $\frac{1}{4}$ in Section 13, T-26S, R-14E, in Woodson County, Kansas.

The core was brought to our laboratory unbagged by a representative of the client and was sampled after being received on October 29, 1981.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel
by B.L.
Sanford A. Michel

SAM/mkf

5 c to Yates Center, Ks.

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LOGName Four Way Oil Company Lease Estep Well No. N-3Depth Interval,
FeetDescription

SQUIRREL SAND

1069.0 - 1070.8

Grayish brown shaly sandstone.

1070.8 - 1073.7

Brown sandstone.

1073.7 - 1076.4

Grayish brown shaly sandstone.

1076.4 - 1083.0

Grayish brown sandstone with fine micaceous partings.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1

Company Four Way Oil Company Lease Estep Well No. N-3

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbls. / A Ft.	Perm., Mill.
			Oil	Water	Total		
			SQUIRREL SAND				
1	1069.5	17.7	42	28	70	577	3.4
2	1070.5	12.3	44	52	96	420	0.35
3	1071.5	17.3	31	31	62	416	20.
4	1072.5	19.0	40	33	73	590	63.
5	1073.5	19.3	32	35	67	479	39.
6	1074.5	15.7	49	42	91	597	2.9
7	1075.5	14.0	31	44	75	337	0.99
8	1076.6	18.3	24	35	59	341	39.
9	1077.6	18.0	39	38	77	545	19.
10	1078.5	16.7	29	32	61	376	29.
11	1079.5	16.5	36	34	70	461	26.
12	1080.5	15.7	38	34	72	463	18.
13	1081.5	16.7	52	26	78	674	11.
14	1082.5	16.0	10	48	58	124	32.