



OILFIELD RESEARCH LABORATORIES

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

June 25, 1980

Hazlett Oil Company
P.O. Box 707
Chanute, Kansas 66720

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Gallon Lease, Well No. 1, Wilson County, Kansas, and submitted to our laboratory on June 12, 1980.

The core was sampled and sealed in plastic bags by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Sanford A. Michel

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5 c to Chanute, Kansas

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GENERAL INFORMATION & SUMMARY

Company Hazlett Oil Company Lease Gallon Well No. 1
 Location —
 Section 1 Twp. 28S Rge. 15E County Wilson State Kansas

Elevation, Feet	
Name of Sand	Tucker (?)
Top of Core	1076.0
Bottom of Core	1097.0
Top of Sand	1076.0
Bottom of Sand (Tested)	1094.6
Total Feet of Permeable Sand	10.2

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 4	6.4	6.4
4 - 8	1.3	7.7
25 & Above	2.5	10.2

Average Permeability Millidarcys	13.2
Average Percent Porosity	16.2
Average Percent Oil Saturation	31.4
Average Percent Water Saturation	36.3
Average Oil Content, Bbls./A. Ft.	395.
Total Oil Content, Bbls./Acre	4,617.

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LOGName Hazlett Oil Company Lease Gallon Well No. 1

<u>Depth Interval, Feet</u>	<u>Description</u>
1076.0 - 1076.5	Brown shaly sandstone.
1076.5 - 1078.0	Brown sandstone.
1078.0 - 1079.5	Light brown very shaly sandstone.
1079.5 - 1082.2	Gray shale.
1082.2 - 1082.5	Light brown shaly sandstone.
1082.5 - 1085.0	Gray shale.
1085.0 - 1086.8	Light brown shaly sandstone.
1086.8 - 1087.8	Brown sandstone.
1087.8 - 1090.2	Brown shaly sandstone.
1090.2 - 1090.5	Gray shale.
1090.5 - 1092.0	Brown shaly sandstone.
1092.0 - 1092.6	Gray laminated shale.
1092.6 - 1093.6	Brown very shaly sandstone.
1093.6 - 1094.6	Light brown very shaly sandstone.
1094.6 - 1096.2	Gray laminated shale.
1096.2 - 1097.0	Brown shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Hazlett Oil Company Lease Gallon Well No. 1

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbls. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	1076.4	13.1	52	24	76	529	2.1	0.5	0.5	265	1.05
2	1077.5	18.9	44	30	74	645	61.	1.5	2.0	968	91.50
3	1078.6	13.8	22	52	74	236	Imp.	1.0	3.0	236	0.00
4	1079.3	15.6	24	45	69	291	Imp.	0.5	3.5	146	0.00
5	1082.4	14.0	32	58	90	348	4.5	0.3	3.8	104	1.35
6	1086.4	14.4	21	57	78	235	0.45	1.0	4.8	235	0.45
7	1087.5	15.8	44	28	72	539	26.	1.0	5.8	539	26.00
8	1088.5	18.0	20	40	60	279	2.8	1.4	7.2	391	3.92
9	1089.5	15.0	26	11	37	303	5.6	1.0	8.2	303	5.60
10	1091.5	18.0	25	35	60	349	2.7	1.5	9.7	524	4.05
11	1093.5	15.3	42	35	77	499	0.18	1.0	10.7	499	0.18
12	1094.3	15.9	33	36	69	407	0.95	1.0	11.7	407	0.95

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company		Lease		Well No.			
Hazlett Oil Company		Gallon		1			
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
1076.0 - 1094.6	10.2	13.2	135.05	31.4	36.3	395	4,617
1076.0 - 1094.6	11.7			16.2			