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OILFIELD RESEARCH LABORATORIES

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May 19, 1980

North Central Oil Corporation
6001 Savoy Drive Suite 600
Houston, Texas 77036

Gentlemen:

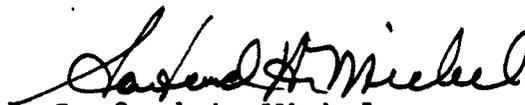
Enclosed herewith are the results of tests run on the rotary core taken from the Stitch Lease, Well No. 3, Chautauqua County, Kansas, and submitted to our laboratory on May 9, 1980.

The core was sampled by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES



Sanford A. Michel

SAM/tem

5 c to Houston, Texas

- REGISTERED ENGINEERS -

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

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GENERAL INFORMATION & SUMMARY

Company North Central Oil Corporation Lease Stitch Well No. 3
 Location -
 Section 16 Twp 32S Rge. 12E County Chautauqua State Kansas

Elevation, Feet	
Name of Sand	Wiser
Top of Core	1132.0
Bottom of Core	1165.6
Top of Sand	1146.8
Bottom of Sand	1163.6
Total Feet of Permeable Sand	10.8

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 1	6.6	6.6
1 - 2	1.2	7.8
2 - 4	2.0	9.8
12 & Above	1.0	10.8

Average Permeability Millidarcys	2.0
Average Percent Porosity	14.1
Average Percent Oil Saturation	21.7
Average Percent Water Saturation	57.2
Average Oil Content, Bbls./A. Ft.	234.
Total Oil Content, Bbls./Acre	3,937.

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LOG

Name North Central Oil Corp. Lease Stitch Well No. 3

Depth Interval,
Feet

Description

1132.0 - 1146.8

Gray sandy shale.

1146.8 - 1162.6

Grayish brown shaly calcareous sandstone.

1162.6 - 1163.6

Brown and gray laminated sandstone and shale.

1163.6 - 1165.6

Gray laminated sandstone and shale.

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company North Central Oil CorporationLease StitchWell No. 3

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbbs. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	1147.5	15.3	20	57	77	237	0.69	1.0	1.0	237	0.69
2	1148.8	13.8	15	53	68	161	1.4	1.2	2.2	193	1.68
3	1149.5	15.6	24	40	64	291	12.	1.0	3.2	291	12.00
4	1150.5	13.6	25	42	67	264	2.1	1.0	4.2	264	2.10
5	1151.7	8.7	40	55	95	270	Imp.	1.0	5.2	270	0.00
6	1152.5	13.4	10	70	80	104	Imp.	1.0	6.2	104	0.00
7	1153.5	16.6	20	61	81	258	0.46	1.0	7.2	258	0.46
8	1154.5	15.6	7	77	84	85	Imp.	1.0	8.2	85	0.00
9	1155.5	15.8	18	67	85	221	Imp.	1.0	9.2	221	0.00
10	1156.5	15.9	27	54	81	333	0.26	1.0	10.2	333	0.26
11	1157.5	14.0	25	63	88	272	0.31	1.0	11.2	272	0.31
12	1158.5	11.8	7	86	93	64	Imp.	1.0	12.2	64	0.00
13	1159.5	13.7	26	50	76	276	Imp.	1.0	13.2	276	0.00
14	1160.5	14.7	25	55	80	285	0.68	1.0	14.2	285	0.68
15	1161.5	14.8	29	43	72	333	3.1	1.0	15.2	333	3.10
16	1162.5	11.7	30	44	74	272	0.53	0.6	15.8	163	0.32
17	1163.4	14.3	26	51	77	288	0.16	1.0	16.8	288	0.16

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	Stitch	Well No.				
North Central Oil Corporation							3
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Average Percent Porosity	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbl./Acre
1146.8 - 1163.6	10.8	2.0	21.76				
1146.8 - 1163.6	16.8			14.1	21.7	57.2	234
							3,937