OILFIELD RESEARCH LABORATORIES

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

November 21, 1980

Rantoul Energy Corp.
Box 516
Hutchinson, Kansas 67501

Gentlemen:

Enclosed herewith is the report of the analysis of the rotary core taken from the ABC Lease, Well No. 22-A, located in Miami County, Kansas and submitted to our laboratory on September 4, 1980.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/mkf

5 c to Hutchinson, Kansas

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Rantoul Energy Corp. Lease ABC Well No. 22-A

Location -

Section 22 Twp. 17S Rge. 21E County Miami State Kansas

Elevation, Feet	-
Name of Sand	-
Top of Core	505.0
Bottom of Core	516.2
Top of Sand	505.0
Bottom of Sand	516.2
Total Feet of Permeable Sand	4.4
Total Feet of Floodable Sand	0.0

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 4	2.9	2.9
9 & Above	1.5	4.4

Average Permeability Millidarcys	4.0
Average Percent Porosity	19.0
Average Percent Oil Saturation	42.9
Average Percent Water Saturation	28.0
Average Oil Content, Bbls./A. Ft.	630.
Total Oil Content, Bbls./Acre	5,926.
Average Percent Oil Recovery by Laboratory Flooding Tests	0.
Average Oil Recovery by Laboratory Flooding Tests, Bbls./A. Ft.	0.
Total Oil Recovery by Laboratory Flooding Tests, Bbls./Acre	0.
Total Calculated Oil Recovery, Bbls./Acre	0.

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

Since the core did not respond to flooding susceptability tests, no calculated recovery is given.

FORMATION CORED

The detailed log of the formation cored is as follows:

Depth Interval, Feet	Description
505.0 - 505.8	Brown shaly sandstone.
505.8 - 507.0	Gray sandy shale.
507.0 - 508.2	Light brown shaly sandstone.
508.2 - 508.8	Gray sandy shale.
508.8 - 510.3	Brown slightly shaly sandstone.
510.3 - 516.2	Grayish brown shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Rantoul Energy Corp. Lease ABC Well No. 22-A

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	505.5	17.3	30	32	62	403	Imp.	0.8	0.8	322	0.00
2	507.5	18.6	43	10	53	621	Imp.	1.2	2.0	745	0.00
3	509.5	20.4	36	29	65	570	9.4	1.5	3.5	855	14.10
4	510.5	20.0	47	9	56	729	Imp.	1.0	4.5	729	0.00
5	511.5	18.0	52	32	84	726	Imp.	1.0	5.5	726	0.00
6	512.5	18.0	42	39	81	587	Imp.	1.0	6.5	587	0.00
7	513.5	18.4	55	33	88	785	0.33	1.0	7.5	785	0.33
8	514.5	19.2	38	38	76	566	0.24	1.0	8.5	566	0.24
9	515.5	19.9	44	35	79	679	3.1	0.9	9.4	611	2.79

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Rantoul Energy Corp. Lease ABC Well No. 22-A

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
505.0 - 516.2	4.4	4.0	17.46

Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
505.0 - 516.2	9.4	19.0	42.9	28.0	630	5,926

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RESULTS OF LABORATORY FLOODING TESTS

TABLE IV

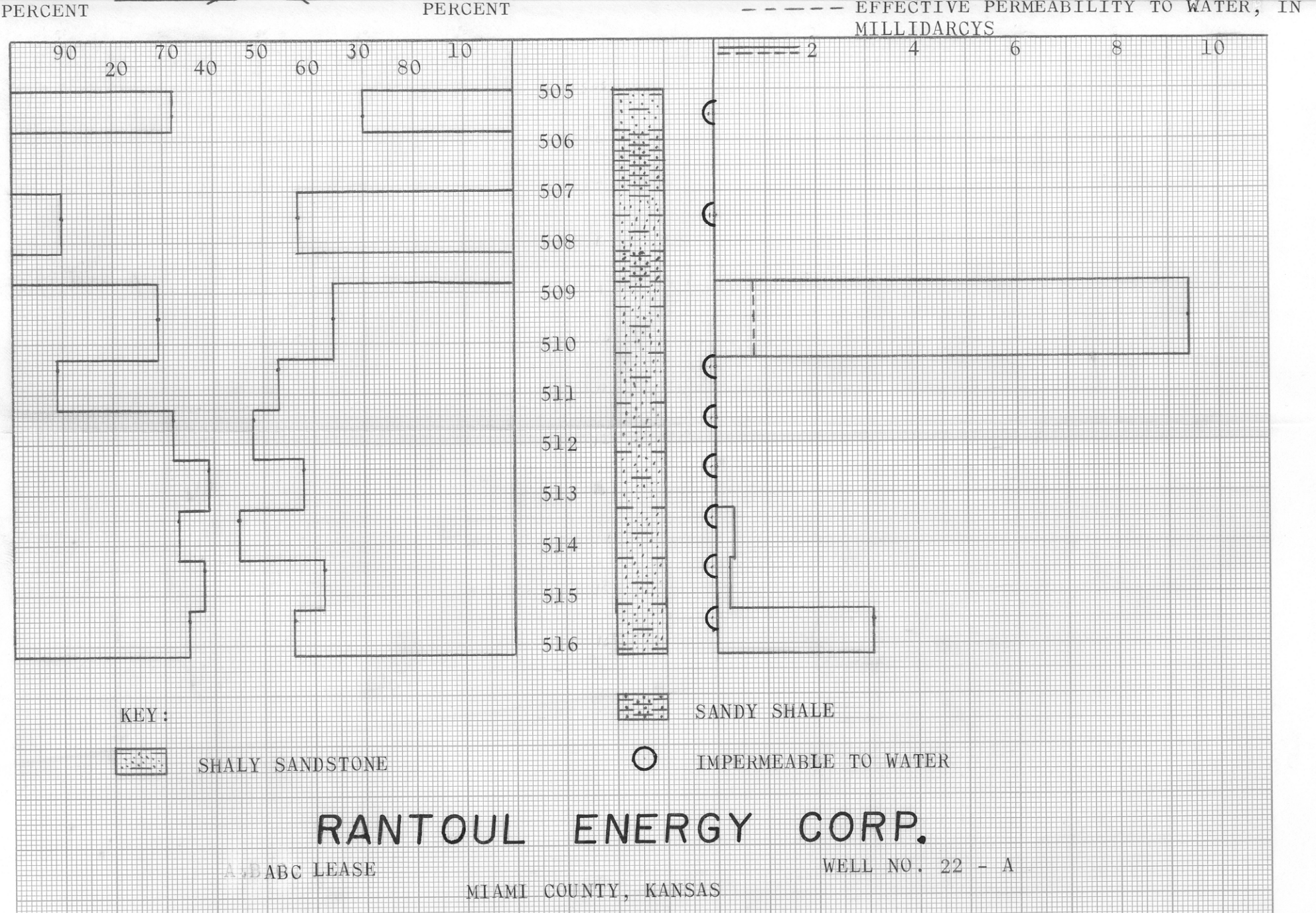
Company Rantoul Energy Corp. Lease ABC Well No. 22-A

Sample No.	Depth, Feet	Effective Porosity Percent	Original Oil Saturation		Oil Recovery		Residual Saturation			Volume of Water Recovered cc*	Effective Permeability Millidarcys**	Initial Fluid Production Pressure Lbs./Sq./In.
			%	Bbls./A. Ft.	%	Bbls./A. Ft.	% Oil	% Water	Bbls./A. Ft.			
1	505.5	17.8	29	400	0	0	29	35	400	0	Imp.	-
2	507.5	18.5	43	617	0	0	43	15	617	0	Imp.	-
3	509.5	20.2	36	564	0	0	36	53	564	16	0.75	50
4	510.5	20.0	47	729	0	0	47	13	729	0	Imp.	-
5	511.5	18.5	51	731	0	0	51	46	731	0	Imp.	-
6	512.5	17.6	43	587	0	0	43	41	587	0	Imp.	-
7	513.5	18.5	55	789	0	0	55	34	789	0	Imp.	-
8	514.5	19.2	38	566	0	0	38	38	566	0	Imp.	-
9	515.5	19.4	45	677	0	0	45	37	677	0	Imp.	-

Notes: cc—cubic centimeter.

*—Volume of water recovered at the time of maximum oil recovery.

**—Determined by passing water through sample which still contains residual oil.


PERCENT
PERCENT
EFFECTIVE PERMEABILITY TO WATER, IN MILLIDARCYS
90
20
70
40
50
60
30
80
10
2
4
6
8
10
505
506
507
508
509
510
511
512
513
514
515
516
KEY:
SHALY SANDSTONE
SANDY SHALE
IMPERMEABLE TO WATER
RANTOUL ENERGY CORP.
ABC LEASE
WELL NO. 22 - A
MIAMI COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCYS	CALCULATED OIL RECOVERY BBLS. / ACRE
505.0 - 516.2	9.4	19.0	42.9	28.0	4.0	-------

OILFIELD RESEARCH LABORATORIES
CHANUTE, KANSAS
NOVEMBER, 1980

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