



OILFIELD RESEARCH LABORATORIES

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December 9, 1980

Rantoul Energy Corporation
Box 516
Hutchinson, Kansas 67501

Gentlemen:

Enclosed herewith is the report of the analysis of the rotary core taken from the N. Peckham Lease, Well No. 34-C, located in Franklin County, Kansas and submitted to our laboratory on October 6, 1980.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/mkf

5 c to Hutchinson, Ks.

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GENERAL INFORMATION & SUMMARY

Company Rantoul Energy Corp. Lease N. Peckham Well No. 34-C

Location -

Section 16 Twp 17S Rge 21E County Franklin State Kansas

Elevation, Feet - - - - -

Name of Sand - - - - -

Top of Core - - - - -

Bottom of Core - - - - -

Top of Sand - - - - -

Bottom of Sand - - - - -

Total Feet of Permeable Sand - - - - -

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 5

6.1

6.1

5 - 10

0.7

6.8

Average Permeability Millidarcys - - - - -

Average Percent Porosity - - - - -

Average Percent Oil Saturation - - - - -

Average Percent Water Saturation - - - - -

Average Oil Content, Bbls./A. Ft. - - - - -

Total Oil Content, Bbls./Acre - - - - -

Average Percent Oil Recovery by Laboratory Flooding Tests - - - - -

Average Oil Recovery by Laboratory Flooding Tests, Bbls./A. Ft. - - - - -

Total Oil Recovery by Laboratory Flooding Tests, Bbls./Acre - - - - -

- - - - -

3.4
14.5
30.9
62.3
369.
4,321.
0.0
0.0
0.0
0.0

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

FORMATION CORED

The detailed log of the formation cored is as follows:

Depth Interval, <u>Feet</u>	<u>Description</u>
491.0 - 493.9	Grayish brown slightly calcareous shaly sandstone.
493.9 - 494.6	Brown slightly calcareous sandstone.
494.6 - 498.8	Brown and gray laminated slightly calcareous sandstone and shale.
498.8 - 502.7	Grayish brown very shaly sandstone.
502.7 - 508.0	Gray sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Rantoul Energy Corp. Lease N. Peckham Well No. 34-C

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	491.5	16.0	38	59	97	472	1.2	1.0	1.0	472	1.20
2	492.5	13.4	24	71	95	250	Imp.	1.0	2.0	250	0.00
3	493.5	17.9	37	51	88	514	2.2	0.9	2.9	463	1.98
4	494.5	9.9	20	70	90	154	10.	0.7	3.6	108	7.00
5	495.5	15.9	24	67	91	296	4.1	1.4	5.0	414	5.74
6	496.5	15.3	26	68	94	309	3.0	1.0	6.0	309	3.00
7	497.5	17.5	35	58	93	475	2.4	1.0	7.0	475	2.40
8	498.5	16.1	42	51	93	525	2.1	0.8	7.8	420	1.68
9	499.5	6.9	12	82	94	64	Imp.	1.2	9.0	77	0.00
10	500.5	15.1	48	50	98	562	Imp.	1.0	10.0	562	0.00
11	501.5	13.5	29	68	97	304	Imp.	1.0	11.0	304	0.00
12	502.5	18.3	47	39	86	667	Imp.	0.7	11.7	467	0.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Rantoul Energy Corp.		Lease	N. Peckham		Well No.	34-C
Depth Interval, Feet	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.			
491.0 - 498.8	491.0 - 498.8	6.8	3.4	23.00			
498.8 - 502.7	498.8 - 502.7	0.0	0.0	0.00			
491.0 - 502.7	491.0 - 502.7	6.8	3.4	23.00			
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	
491.0 - 498.8	7.8	15.4	30.5	62.2	373	2,911	
498.8 - 502.7	3.9	12.7	31.9	62.5	362	1,410	
491.0 - 502.7	11.7	14.5	30.9	62.3	369	4,321	

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RESULTS OF LABORATORY FLOODING TESTS

TABLE IV

Company			Rantoul Energy Corp.			Lease N. Peckham			Well No. 34-C		
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.
			%	Bbbs./A. Ft.	%	Bbbs./A. Ft.	% Oil	% Water			
1	491.5	15.9	38	469	0	0	38	59	0	Imp.	-
2	492.5	13.8	23	246	0	0	23	73	0	Imp.	-
3	493.5	18.0	37	517	0	0	37	53	0	Imp.	-
4	494.5	9.9	20	154	0	0	20	71	0	Imp.	-
5	495.5	15.4	25	299	0	0	25	69	0	Imp.	-
6	496.5	15.4	26	311	0	0	26	68	0	Imp.	-
7	497.5	17.3	35	470	0	0	35	61	9	0.15	45
8	498.5	16.6	41	528	0	0	41	52	0	Imp.	-
9	499.5	7.0	12	65	0	0	12	83	0	Imp.	-
10	500.5	14.9	48	555	0	0	48	50	0	Imp.	-
11	501.5	13.6	29	306	0	0	29	68	0	Imp.	-
12	502.5	17.8	48	663	0	0	48	41	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.