

OILFIELD RESEARCH LABORATORIES

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

January 29, 1980

Rumic Oil Company
Rural Route #2
Neodesha, Kansas 66757

Gentlemen:

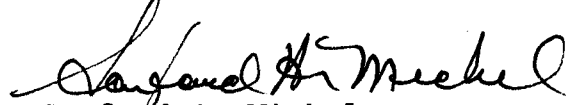
Enclosed herewith are the results of tests run on the rotary cores taken from the JT Lease, Well No. 7, Wilson County, Kansas, and submitted to our laboratory on January 9, 1980.

The cores were 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

SAM/tem

5 c to Neodesha, Kansas

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GENERAL INFORMATION & SUMMARY

Company Rumic Oil Company Lease JT Well No. 7

Location —

Section 20 Twp. 29S Rge. 16E County Wilson State Kansas

Elevation, Feet

Name of Sand	Peru	Bartlesville
Top of Core	504.0	811.0
Bottom of Core	522.0	825.0
Top of Sand	504.0	812.4
Bottom of Sand	522.0	822.5
Total Feet of Permeable Sand	18.0	10.1

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

PERU SAND

0 - 10	4.2	4.2
20 - 40	4.4	8.6
40 - 50	4.2	12.8
60 - 100	3.2	16.0
140 & Above	2.0	18.0

BARTLESVILLE SAND

0 - 10	4.6	4.6
10 - 20	4.5	9.1
20 & Above	1.0	10.1

Average Permeability Millidarcys	49.6	10.9
Average Percent Porosity	17.5	14.4
Average Percent Oil Saturation	32.9	36.5
Average Percent Water Saturation	51.3	39.8
Average Oil Content, Bbls./A. Ft.	448.	399.
Total Oil Content, Bbls./Acre	8,064.	4,027.

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LOG

<u>Depth Interval, Feet</u>	<u>Description</u>
<u>PERU SAND</u>	
504.0 - 511.2	Brown sandstone.
511.2 - 511.8	Light brown slightly shaly sandstone.
511.8 - 516.2	Brown sandstone.
516.2 - 517.0	Brown slightly shaly sandstone.
517.0 - 519.2	Brown sandstone.
519.2 - 522.0	Light brown shaly sandstone.
<u>BARTLESVILLE SAND</u>	
811.0 - 812.4	Gray shale.
812.4 - 815.0	Brown sandstone.
815.0 - 817.0	Brown shaly sandstone.
817.0 - 819.2	Brown slightly shaly sandstone.
819.2 - 819.9	Brown sandstone.
819.9 - 821.0	Brown sandstone with fine shale partings.
821.0 - 822.5	Light brown very shaly sandstone.
822.5 - 825.0	Gray shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Rumic Oil Company Lease JT Well No. 7

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbbls. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
						<u>PERU SAND</u>					
1	504.5	20.3	30	44	74	473	47.	1.0	1.0	473	47.00
2	505.6	21.2	36	38	74	592	141.	1.0	2.0	592	141.00
3	506.3	21.0	47	46	93	766	169.	1.0	3.0	766	169.00
4	507.5	19.7	23	58	81	352	82.	1.0	4.0	352	82.00
5	508.4	13.4	40	5	95	416	17.	1.0	5.0	416	17.00
6	509.4	15.5	35	57	92	422	42.	1.0	6.0	422	42.00
7	510.5	14.8	39	52	91	446	24.	1.2	7.2	535	28.80
8	511.4	23.5	26	36	62	474	5.0	0.6	7.8	284	3.00
9	512.4	17.1	23	56	79	305	43.	1.2	9.0	366	51.60
10	513.5	16.7	16	61	77	207	30.	1.0	10.0	207	30.00
11	514.4	19.0	36	41	77	531	67.	1.0	11.0	531	67.00
12	515.3	16.7	39	40	79	505	92.	1.2	12.2	606	110.40
13	516.5	15.3	36	53	89	427	8.5	0.8	13.0	342	6.80
14	517.5	19.7	47	40	87	718	41.	1.0	14.0	718	41.00
15	518.3	17.9	42	44	86	583	36.	1.2	15.2	700	43.20
16	519.5	12.0	30	61	91	279	1.4	1.0	16.2	279	1.40
17	520.4	16.9	22	72	94	289	6.7	1.0	17.2	289	6.70
18	521.3	16.6	18	71	89	232	7.2	0.8	18.0	186	5.76

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Rumic Oil Company Lease JT Well No. 7

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.		
						<u>BARTLESVILLE SAND</u>					
1	813.4	17.2	27	31	58	360	15.	1.6	1.6	576	24.00
2	814.2	17.8	26	30	56	359	22.	1.0	2.6	359	22.00
3	815.5	15.1	33	33	66	387	9.2	1.0	3.6	387	9.20
4	816.4	9.1	49	45	94	346	7.2	1.0	4.6	346	7.20
5	817.4	10.6	39	54	93	321	13.	1.0	5.6	321	13.00
6	818.4	14.4	50	38	88	559	14.	1.2	6.8	671	16.80
7	819.6	16.1	48	32	80	600	18.	0.7	7.5	420	12.60
8	820.4	14.7	37	40	77	422	4.2	1.1	8.6	464	4.62
9	821.5	14.0	31	51	82	337	0.37	1.0	9.6	337	0.37
10	822.3	13.9	27	55	82	291	0.48	0.5	10.1	146	0.24

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Rumic Oil Company		Lease	JT	Well No.		7
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.				
<u>PERU SAND</u>							
504.0 - 522.0	18.0	49.6	893.66				
<u>BARTLESVILLE SAND</u>							
812.4 - 822.5	10.1	10.9	110.03				
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	
<u>PERU SAND</u>							
504.0 - 522.0	18.0	17.5	32.9	51.3	448	8,064	
<u>BARTLESVILLE SAND</u>							
812.4 - 822.5	10.1	14.4	36.5	39.8	399	4,027	