

OILFIELD RESEARCH LABORATORIES

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

December 8, 1979

Yenom Oil Company
841 North Broadway
Wichita, Kansas 67214

Gentlemen:

Enclosed herewith are the results of tests run on the rotary cores taken from the Conrad Jackson Lease, Well No. 3, Allen County, Kansas and submitted to our laboratory on December 2, 1979.

The cores were sampled by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Benjamin R. Pearman

BRP/tem
3 c to Wichita
1 c to Chanute
1 c to Hialeah, Florida

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Yenom Oil Company Lease Conrad Jackson Well No. 3

Location 165' WEL & 1410' NSL SW

Section 17 Twp. 26S Rge. 21E County Allen State Kansas

Name of Sand	Squirrel
Top of Core	552.0
Bottom of Core	560.0
Top of Sand	552.3
Bottom of Sand	558.4
Total Feet of Permeable Sand	5.0
Total Feet of Floodable Sand	

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 2	1.3	1.3
2 - 4	1.8	3.1
6 & Above	1.9	5.0

Average Permeability Millidarcys	3.9
Average Percent Porosity	13.6
Average Percent Oil Saturation	38.1
Average Percent Water Saturation	50.7
Average Oil Content, Bbls./A. Ft.	389.
Total Oil Content, Bbls./Acre	1,946.
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	
Total Calculated Oil Recovery, Bbls./Acre	
Packer Setting, Feet	
Viscosity, Centipoises @	
A. P. I. Gravity, degrees @ 60 °F	
Elevation, Feet	

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GENERAL INFORMATION & SUMMARY

Company Yenom Oil Company Lease Conrad Jackson Well No. 3

Location 165' WEL & 1410' NSL SW

Section 17 Twp. 26S Rge. 21E County Allen State Kansas

Name of Sand	Bartlesville
Top of Core	701.0
Bottom of Core	718.0
Top of Sand	701.0
Bottom of Sand	707.5
Total Feet of Permeable Sand	6.5
Total Feet of Floodable Sand	

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
10 - 25	2.4	2.4
25 - 45	2.0	4.4
45 & Above	2.1	6.5
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		
Total Calculated Oil Recovery, Bbls./Acre		
Packer Setting, Feet		
Viscosity, Centipoises @		
A. P. I. Gravity, degrees @ 60 °F		
Elevation, Feet		

44.1
18.4
28.5
46.1
419.
2,726.

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LOG

Name Yenom Oil Company Lease Conrad Jackson Well No. 3

Depth Interval,
Feet

Description

SQUIRREL SAND

552.0 - 552.3	Gray sandy shale.
552.3 - 554.2	Brown shaly sandstone.
554.2 - 555.1	Gray and light brown laminated shale and sandstone.
555.1 - 557.0	Brown shaly sandstone.
557.0 - 558.1	Gray shale.
558.1 - 558.4	Light brown shaly sandstone.
558.4 - 560.0	Gray shale containing a vertical fracture.

BARTLESVILLE SAND

701.0 - 707.1	Brown sandstone.
707.1 - 707.5	Light brown sandstone.
707.5 - 718.0	Gray shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Yenom Oil Company Lease Conrad Jackson Well No. 3

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>SQUIRREL SAND</u>											
1	552.5	15.9	43	52	95	530	6.2	0.9	0.9	477	5.58
2	553.4	16.4	34	50	84	433	7.4	1.0	1.9	433	7.40
3	554.6	15.2	19	70	89	224	2.5	0.9	2.8	202	2.25
4	555.3	11.8	44	35	79	403	2.8	0.9	3.7	363	2.52
5	556.5	9.8	48	47	95	364	1.5	1.0	4.7	364	1.50
6	558.2	10.5	44	50	94	358	1.0	0.3	5.0	107	0.30
<u>BARTLESVILLE SAND</u>											
1	701.5	19.9	27	42	69	417	12.	1.0	1.0	417	12.00
2	702.5	18.6	31	37	68	447	42.	1.0	2.0	447	42.00
3	703.5	19.6	37	39	76	563	68.	1.0	3.0	563	68.00
4	704.5	16.6	27	49	76	348	25.	1.0	4.0	348	25.00
5	705.5	19.3	27	47	74	404	16.	1.0	5.0	404	16.00
6	706.5	19.7	32	45	77	489	105.	1.1	6.1	538	115.50
7	707.4	9.5	3	90	93	22	20.	0.4	6.5	9	8.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

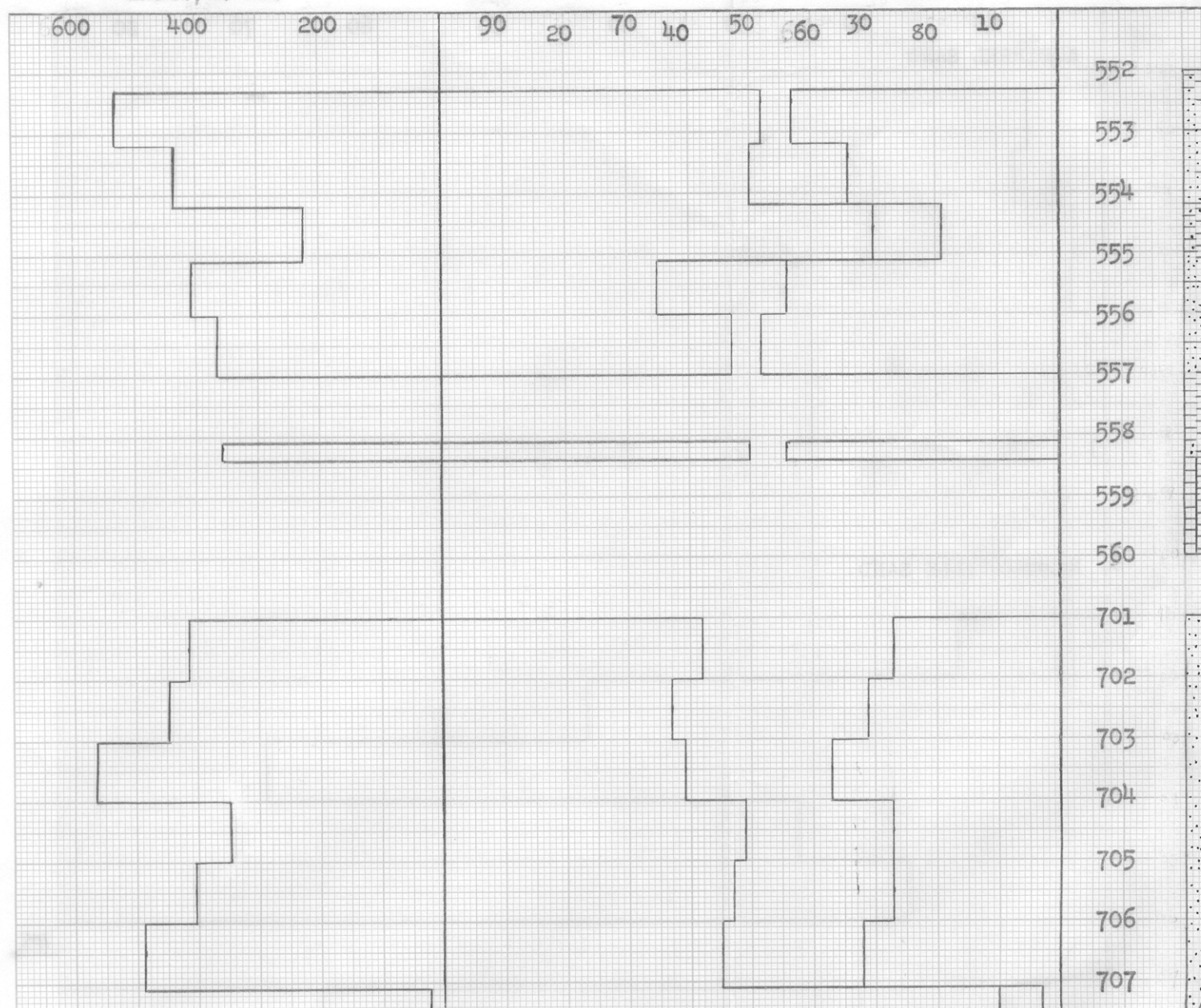
TABLE III

Company		Yenom Oil Company		Lease		Conrad Jackson		Well No.		3	
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>SQUIRREL SAND</u>											
552.3 - 558.4	5.0	13.6	38.1	50.7	389	1,946					
<u>BARTLESVILLE SAND</u>											
701.0 - 707.5	6.5	18.4	28.5	46.1	419	2,726					

OIL CONTENT,
BBLs./A. FT.

WATER SAT.,
PERCENT

OIL SAT.,
PERCENT



KEY:



SANDSTONE



SHALY SANDSTONE



YENOM OIL

CONRAD JACKSON LEASE

ALLEN COUNTY,

DEPTH INTERVAL,
FEET

FEET OF CORE
ANALYZED

AVERAGE
PERCENT
POROSITY

AVG. OIL
SATURATION
PERCENT

552.3 - 558.4

5.0

13.6

38.1

701.0 - 707.5

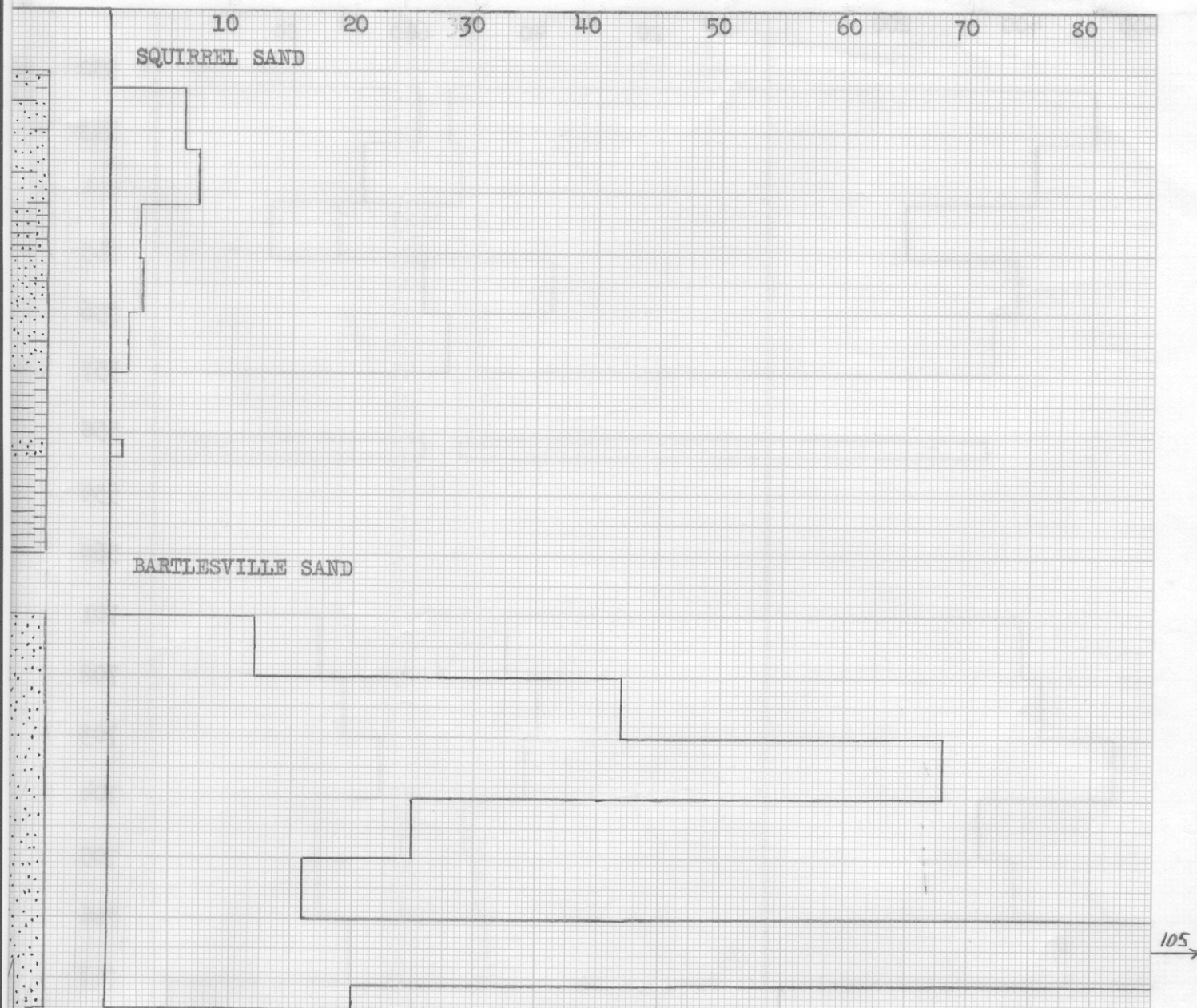
6.5

18.4

28.5

SQUIRREL SAND

BARTLESVILLE



SANDY SHALE

SHALE

LAMINATED SANDSTONE AND SHALE

SHALE CONTAINING A VERTICAL FRACTURE

COMPANY

WELL NO. 3

KANSAS

VG. WATER SATURATION PERCENT	AVG. OIL CONTENT BBLs./A.FT.	TOTAL OIL CONTENT BBLs./ACRE	AVG. AIR PERMEABILITY, MILLIDARCYS
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50.7	389	1,946	3.9
46.1	419	2,726	44.1

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CHANUTE, KANSAS
DECEMBER, 1979 HR