

OILFIELD RESEARCH LABORATORIES

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

December 10, 1980

R.E. Gramly
730½ N. Penn
Independence, Kansas 67301

Gentlemen:

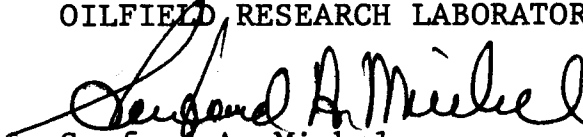
Enclosed herewith are the results of tests run on the rotary core taken from the Elsheimer Lease, Well No. 13, Montgomery County, Kansas, and submitted to our laboratory on November 25, 1980.

The core was 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:km

5 c to Independence, Kansas

Oilfield Research Laboratories
GENERAL INFORMATION & SUMMARY

Company R.E. Gramly Lease Elsheimer Well No. 13
 Location 2090' FSL & 850' FWL
 Section 3 Twp. 35S Rge. 14E County Montgomery State Kansas

Elevation, Feet	-
Name of Sand	Bartlesville
Top of Core	1334.0
Bottom of Core	1343.1
Top of Sand	1334.0
Bottom of Sand	1343.1
Total Feet of Permeable Sand	9.1

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 5	4.1	4.1
5 - 10	3.0	7.1
10 & Above	2.0	9.1

Average Permeability Millidarcys	5.4
Average Percent Porosity	14.6
Average Percent Oil Saturation	39.8
Average Percent Water Saturation	38.5
Average Oil Content, Bbls./A. Ft.	452.
Total Oil Content, Bbls./Acre	4,112.

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Name R.E. Gramly Lease Elsheimer Well No. 13

Depth Interval,
Feet

Description

1334.0 - 1343.0

Light brown and gray laminated slightly calcareous
sandstone and shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company R.E. Gramly Lease Elsheimer Well No. 13

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	1334.5	13.6	34	43	77	359	0.87	1.0	1.0	359	0.87
2	1335.4	13.4	29	49	78	302	1.9	1.0	2.0	302	1.90
3	1336.5	12.3	42	45	87	401	1.0	1.0	3.0	401	1.00
4	1337.5	16.0	40	33	73	497	7.1	1.0	4.0	497	7.10
5	1338.5	15.2	52	25	77	613	12.	1.0	5.0	613	12.00
6	1339.5	16.2	35	36	71	440	6.1	1.0	6.0	440	6.10
7	1340.4	15.5	56	27	83	673	14.	1.0	7.0	673	14.00
8	1341.5	15.0	29	48	77	338	5.3	1.0	8.0	338	5.30
9	1342.5	14.0	41	40	81	445	1.1	1.1	9.1	489	1.21

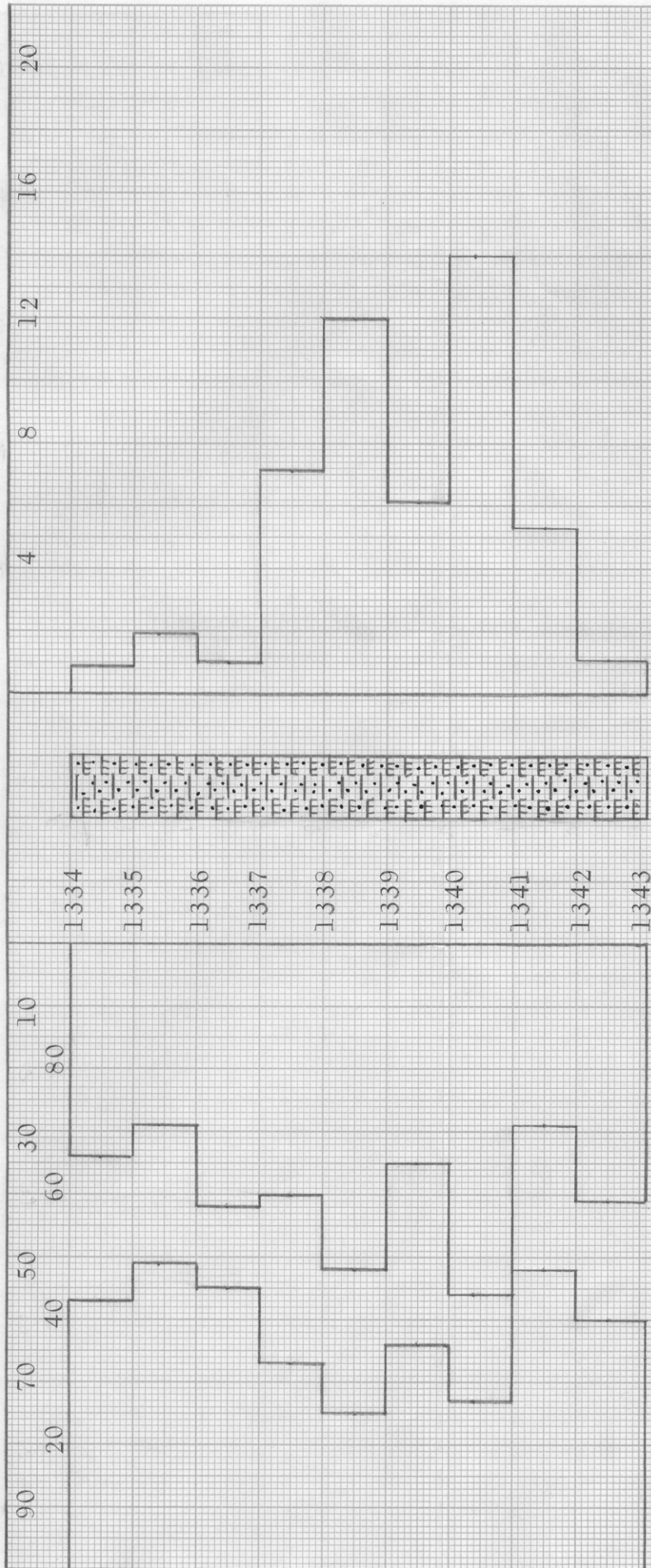
SUMMARY OF PERMEABILITY & SATURATION TESTS

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Company	R. E. Gramly	Lease	Elsheimer	Well No.	13
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
1334.0 - 1343.1	9.1	39.8	38.5	452	4,112

WATER SAT., ———→ OIL SAT.,
PERCENT PERCENT

———— PERMEABILITY, IN MILLIDARCYS



KEY:

LAMINATED CALCAREOUS SANDSTONE & SHALE

R. E. GRAMLY

ELSHEIMER LEASE
WELL NO. 13
MONTGOMERY COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE POROSITY PERCENT	AVERAGE OIL SATURATION PERCENT	AVERAGE WATER SATURATION PERCENT	AVERAGE PERMEABILITY MILLIDARCYS
1334.0 - 1334.5					
1334.5 - 1335.0					
1335.0 - 1335.5					
1335.5 - 1336.0					
1336.0 - 1336.5					
1336.5 - 1337.0					
1337.0 - 1337.5					
1337.5 - 1338.0					
1338.0 - 1338.5					
1338.5 - 1339.0					
1339.0 - 1339.5					
1339.5 - 1340.0					
1340.0 - 1340.5					
1340.5 - 1341.0					
1341.0 - 1341.5					
1341.5 - 1342.0					
1342.0 - 1342.5					
1342.5 - 1343.0					

ELSHEIMER LEASE

WELL NO. 13

MONTGOMERY COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE POROSITY PERCENT	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY MILLIDARCYS
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1334.0 - 1343.1

9.1

14.6

39.8

38.5

5.4

OILFIELD RESEARCH LABORATORIES
CHANUTE, KANSAS
DECEMBER, 1980

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