

OILFIELD RESEARCH LABORATORIES

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

October 24, 1980

Ross Gault
521 N. Walker
Olathe, Kansas 66051

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Gates Lease, Well No. 1, located in Johnson County, Kansas and submitted to our laboratory on September 12, 1980.

The core was sampled and sealed in glass jars by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Sanford A. Michel

SAM:ks

5 c to Olathe, Kansas

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GENERAL INFORMATION & SUMMARY

Company Ross Gault Lease Gates Well No. 1
 Location -
 Section - 22 Twp. - 14 Rgs. - 22E County Johnson State Kansas

Elevation, Feet	
Name of Sand	Bartlesville
Top of Core	830.0
Bottom of Core	841.0
Top of Sand	830.0
Bottom of Sand	841.0
Total Feet of Permeable Sand	6.5

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 50	5.5	5.5
100 & Above	1.0	6.5

Average Permeability Millidarcys	34.5
Average Percent Porosity	17.1
Average Percent Oil Saturation	44.4
Average Percent Water Saturation	32.8
Average Oil Content, Bbls./A. Ft.	577.
Total Oil Content, Bbls./Acre	3,750.

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LOGName Ross Gault Lease Gates Well No. 1

<u>Depth Interval, Feet</u>	<u>Description</u>
830.0 - 831.0	Dark brown sandstone.
831.0 - 832.8	Brown shaly sandstone.
832.8 - 837.3	Gray sandy shale.
837.3 - 841.0	Brown shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

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	830.5	19.9	56	16	72	865	199.	1.0	1.0	865	199.00
2	831.5	14.3	33	55	88	366	3.4	1.0	2.0	366	3.40
3	832.5	15.4	56	15	71	669	8.3	0.8	2.8	535	6.64
4	837.5	15.4	47	25	72	562	2.8	0.7	3.5	393	1.96
5	838.5	20.2	19	61	80	298	9.6	1.0	4.5	298	9.60
6	839.5	18.0	48	27	75	670	3.8	1.0	5.5	670	3.80
7	840.5	14.6	55	25	80	623	0.32	1.0	6.5	623	0.32

Company Ross Gault Lease Gates Well No. 1

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	Gates	Well No.	
ROSS Gault			1	
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	
830.0 - 841.0	6.5	34.5	224.7	
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.
830.0 - 841.0	6.5	44.4	32.8	577
				Total Oil Content Bbls./Acre
				3,750

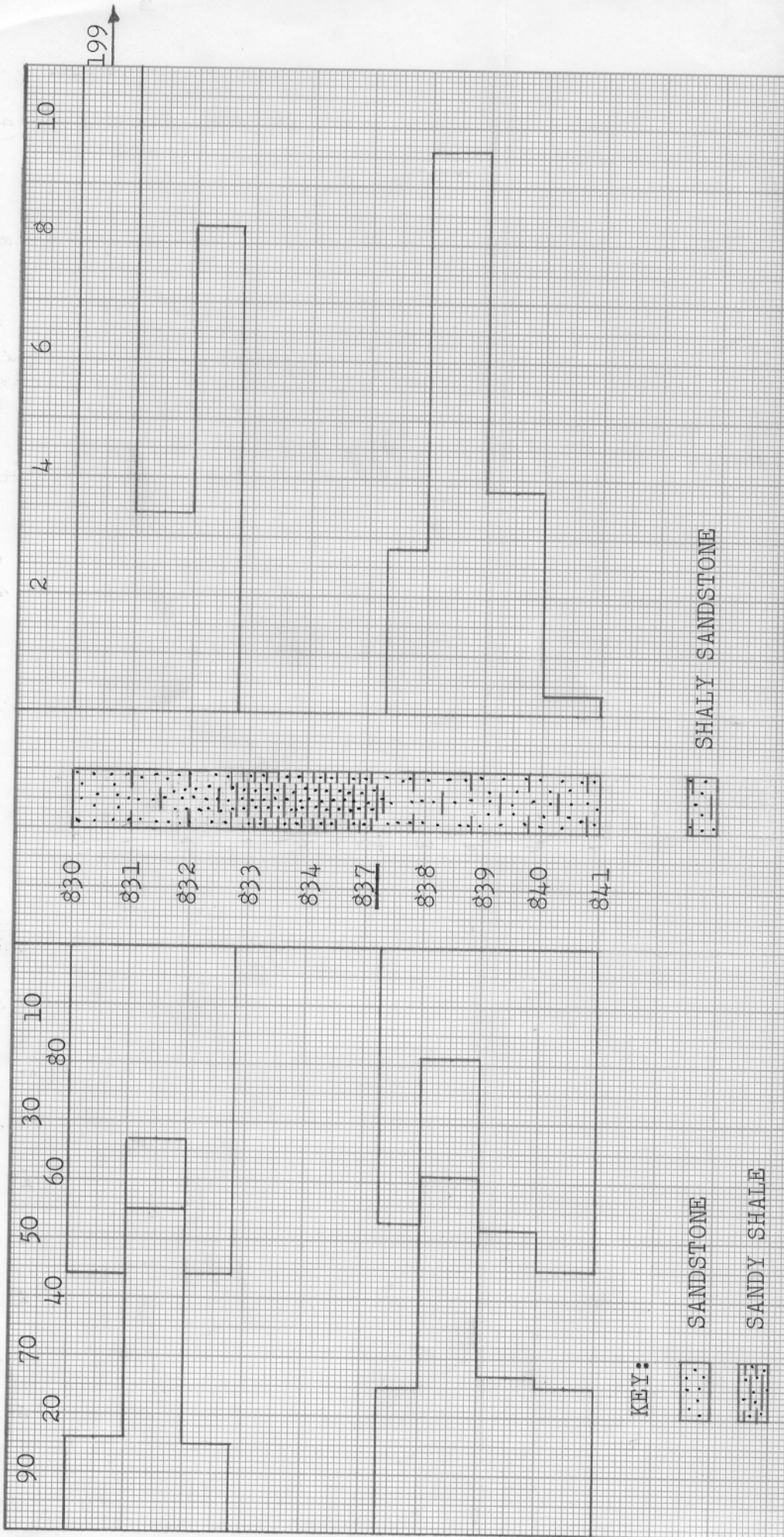
K&E 10 X 10 TO THE CENTIMETER • 25 X 38 CM.
KEUFFEL & ESSER CO. MADE IN U.S.A.

WATER SAT., PERCENT →

← OIL SAT., PERCENT

47 1512

— PERMEABILITY, IN MILLIDARCYS



KEY:

□ SANDSTONE

□ SANDY SHALE

□ SHALY SANDSTONE

ROSS GAULT

GATES LEASE

WELL NO. 1

JOHNSON 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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830.0 - 841.0

6.5

17.1

44.4

32.8

34.5

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CHANUTE, KANSAS
OCTOBER, 1980

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