

OILFIELD RESEARCH LABORATORIES

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

June 15, 1981

Marvin E. Boyer Oil Company
Box 625
Iola, Kansas 66749

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Brown Lease, Well No. R-41, located in Allen County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and was submitted to our laboratory on June 11, 1981.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/kas

5 c to Iola, Kansas

- REGISTERED ENGINEERS -

CORE ANALYSIS - WATER ANALYSIS - REPRESSURING ENGINEERING - SURVEYING & MAPPING - PROPERTY EVALUATION & OPERATION

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GENERAL INFORMATION & SUMMARY

Company Marvin E. Boyer Oil Co. Lease Brown Well No. R-41

Location _____

Section 4 Twp. 24S Rge. 18E County Allen State Kansas

Elevation, Feet

Name of Sand.....

Bartlesville

Top of Core

814.0

Bottom of Core

820.0

Top of Sand

814.0

Bottom of Sand

820.0

Total Feet of Permeable Sand

5.0

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 1.2

5.0

5.0

Average Permeability Millidarcys

0.44

Average Percent Porosity

13.4

Average Percent Oil Saturation

24.5

Average Percent Water Saturation.....

62.0

Average Oil Content, Bbls./A. Ft.

247.

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

1,479.

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LOG

Name Marvin E. Boyer Oil Co. Lease Brown Well No. R-41

Depth Interval,
Feet

Description

814.0 - 820.0

Gray and light brown laminated shale and sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Marvin E. Boyer Oil Co. Lease Brown Well No. R-41

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			Ft.	Cum. Ft.		
1	814.6	10.9	44	46	372	0.27	1.0	1.0	372	0.27
2	815.6	13.7	18	80	191	0.20	1.0	2.0	191	0.20
3	816.5	15.3	4	74	48	1.1	1.0	3.0	48	1.10
4	817.5	14.5	36	48	405	0.32	1.0	4.0	405	0.32
5	818.6	13.7	28	48	298	0.29	1.0	5.0	298	0.29
6	819.6	12.5	17	76	165	Imp.	1.0	6.0	165	0.00

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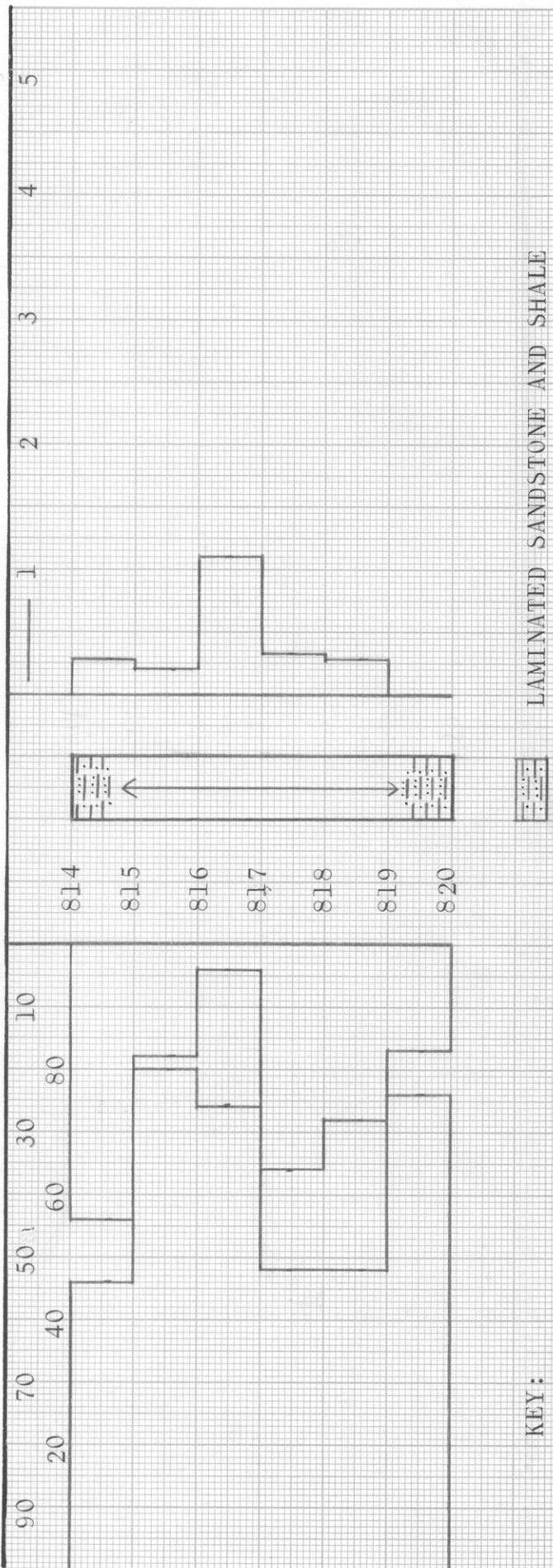
SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Marvin E. Boyer Oil Co.	Lease	Brown	Well No. R-41
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	
814.0 - 820.0	5.0	0.44	2.18	

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
814.0 - 820.0	6.0	13.4	24.5	62.0	247	1,479

WATER SAT., PERCENT → ← OIL SAT., PERCENT ——— PERMEABILITY, IN MILLIDARCYs



MARVIN E. BOYER OIL COMPANY

BROWN LEASE ALLEN COUNTY, KANSAS WELL NO. R-41

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE		AVG. OIL		AVG. WATER		AVERAGE	
		PERCENT	POROSITY	SATURATION	PERCENT	SATURATION	PERCENT	PERMEABILITY, MILLIDARCS	
814.0 - 820.0	6.0	13.4		24.5		62.0		0.44	

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CHANUTE, KANSAS
JUNE, 1981