

OILFIELD RESEARCH LABORATORIES

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

July 28, 1982

J. Osborn Oil & Gas
14111 Pflumm Road
Overland Park, Kansas 66021

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Vering Lease, Well No. 3, located in Johnson County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and submitted to our laboratory on July 26, 1982.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/dlb

5 c to Overland Park, Kansas

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GENERAL INFORMATION & SUMMARY

Company J. Osborn Oil & Gas Lease Vering Well No. 3
 Location _____
 Section 14 Twp. 13S Rge. 23E County Johnson State Kansas

Elevation, Feet

Name of Sand.....

Lower Squirrel

Top of Core

695.0

Bottom of Core

708.0

Top of Sand

695.2

Bottom of Sand (Tested)

705.6

Total Feet of Permeable Sand

7.8

Distribution of Permeable Sand:
 Permeability Range
 Millidarcys

Feet

Cum. Ft.

0 - 10

0.5

0.5

35 - 60

6.9

7.4

320 - 325

0.4

7.8

Average Permeability Millidarcys

58.7

Average Percent Porosity

22.6

Average Percent Oil Saturation

37.2

Average Percent Water Saturation.....

29.3

Average Oil Content, Bbls./ A. Ft.

649.

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

5,061.

OILFIELD RESEARCH LABORATORIESLOGName J. Osborn Oil & Gas Lease Vering Well No. 3

<u>Depth Interval, Feet</u>	<u>Description</u>
695.0 - 695.2	Gray shale.
695.2 - 695.6	Brown sandstone.
695.6 - 696.2	Grayish brown very shaly sandstone.
696.2 - 697.9	Gray shale.
697.9 - 698.4	Brown slightly shaly sandstone.
698.4 - 698.7	Grayish brown very shaly sandstone.
698.7 - 701.0	Brown sandstone.
701.0 - 705.6	Brown slightly calcareous sandstone.
705.6 - 706.5	Grayish brown very shaly sandstone.
706.5 - 708.0	Gray shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company J. Osborn Oil & Gas Lease Vering 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.		
1	695.4	23.2	39	21	60	702	324.	0.4	0.4	281	129.60
2	698.3	16.5	51	26	77	653	9.1	0.5	0.9	327	4.55
3	699.4	22.8	32	34	66	566	46.	1.3	2.2	736	59.80
4	700.5	21.9	33	31	64	561	49.	1.0	3.2	561	49.00
5	701.5	23.1	37	30	67	663	56.	1.0	4.2	663	56.00
6	702.5	22.6	41	28	69	719	42.	1.0	5.2	719	42.00
7	703.6	23.5	33	32	65	602	47.	1.0	6.2	602	47.00
8	704.4	23.6	38	30	68	696	35.	1.0	7.2	696	35.00
9	705.5	23.8	43	20	63	794	58.	0.6	7.8	476	34.80

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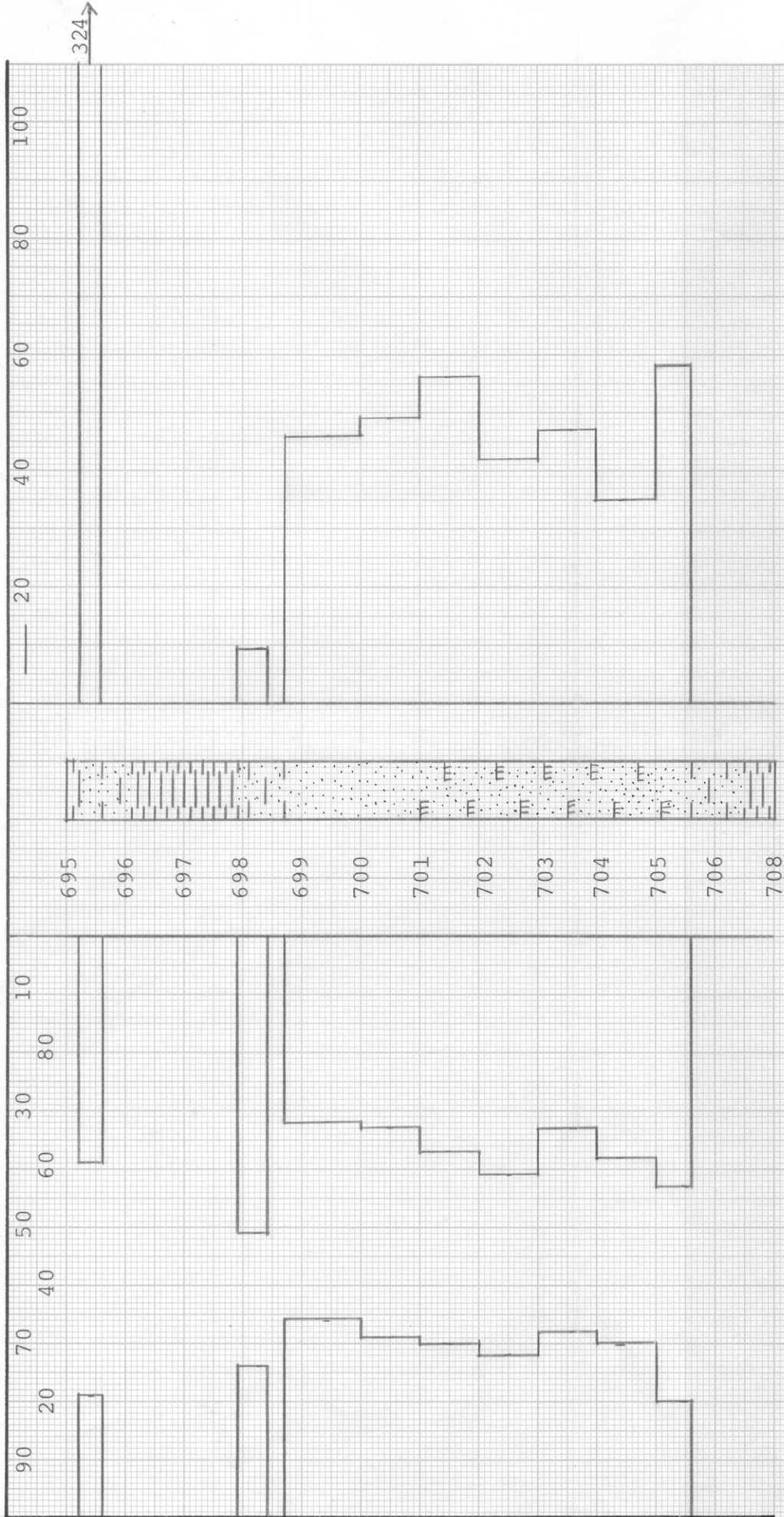
SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company		J. Osborn Oil & Gas	Lease	Vering	Well No.		3
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.				
695.2 - 705.6	7.8	58.7	457.75				
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	
695.2 - 705.6	7.8	22.6	37.2	29.3	649	5,061	

WATER SAT., PERCENT —————> OIL SAT., PERCENT —————>

PERMEABILITY, IN MILLIDARCYS



KEY:



SHALE



SANDSTONE

CALCAREOUS SANDSTONE

SHALY SANDSTONE

J. OSBORN OIL & GAS

VERING LEASE

JOHNSON COUNTY, KANSAS

WELL NO. 3

SHALE

SANDSTONE

SANDSTONE

J. OSBORN OIL & GAS

VERING LEASE

WELL NO. 3

JOHNSON COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCYS
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695.2 - 705.6	7.8	22.6	37.2	29.3	58.7
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CHANUTE, KANSAS
JULY, 1982
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