

OILFIELD RESEARCH LABORATORIES

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

February 10, 1981

D. Carter Oil & Gas Company
Box 72
Peru, Kansas 67360

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Venamon Lease, Well No. 4, located in Chautauqua County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and was submitted to our laboratory on February 3, 1981.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/kas

5 c to Peru, Kansas

- REGISTERED ENGINEERS -

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

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GENERAL INFORMATION & SUMMARY

Company D. Carter Oil & Gas Company Lease Venamon Well No. 4
 Location -
 Section 5 Twp. 35S Rge. 12E County Chautauqua State Kansas

Elevation, Feet	-
Name of Sand	Peru
Top of Core	1079.0
Bottom of Core	1099.0
Top of Sand	1079.0
Bottom of Sand	1099.0
Total Feet of Permeable Sand	2.0

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 1	1.0	1.0
1 & Above	1.0	2.0

Average Permeability Millidarcys	1.5
Average Percent Porosity	11.9
Average Percent Oil Saturation	26.9
Average Percent Water Saturation	66.4
Average Oil Content, Bbls./A. Ft.	261.
Total Oil Content, Bbls./Acre	3,734.

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LOG

Name D. Carter Oil & Gas Company Lease Venamon Well No. 4

<u>Depth Interval, Feet</u>	<u>Description</u>
1079.0 - 1083.1	Light brown shaly sandstone.
1083.1 - 1084.2	Gray sandy shale.
1084.2 - 1084.8	Light brown and gray laminated sandstone and shale.
1084.8 - 1089.4	Gray sandy shale.
1089.4 - 1099.0	Grayish light brown slightly calcareous shaly sandstone.

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	1079.3	14.7	54	29	83	616	2.6	1.0	1.0	616	2.60
2	1080.4	11.3	20	76	96	175	Imp.	1.0	2.0	175	0.00
3	1081.5	12.1	19	73	92	178	Imp.	1.0	3.0	178	0.00
4	1082.5	9.0	17	77	94	119	Imp.	1.1	4.1	131	0.00
5	1084.4	9.1	21	73	94	148	Imp.	0.6	4.7	89	0.00
6	1089.7	11.8	16	79	95	146	Imp.	1.0	5.7	146	0.00
7	1090.7	13.2	33	60	93	338	Imp.	0.9	6.6	304	0.00
8	1091.4	14.4	26	64	90	291	Imp.	1.0	7.6	291	0.00
9	1092.4	14.3	46	48	94	510	Imp.	1.7	9.3	867	0.00
10	1094.4	8.8	27	70	97	184	Imp.	1.0	10.3	184	0.00
11	1095.5	9.7	13	80	93	98	Imp.	1.0	11.3	98	0.00
12	1096.3	12.5	22	71	93	213	Imp.	1.0	12.3	213	0.00
13	1097.5	13.0	24	74	98	242	Imp.	1.0	13.3	242	0.00
14	1098.5	10.3	25	69	94	200	0.49	1.0	14.3	200	0.49

Company D. Carter Oil & Gas Company

Lease

Venamon

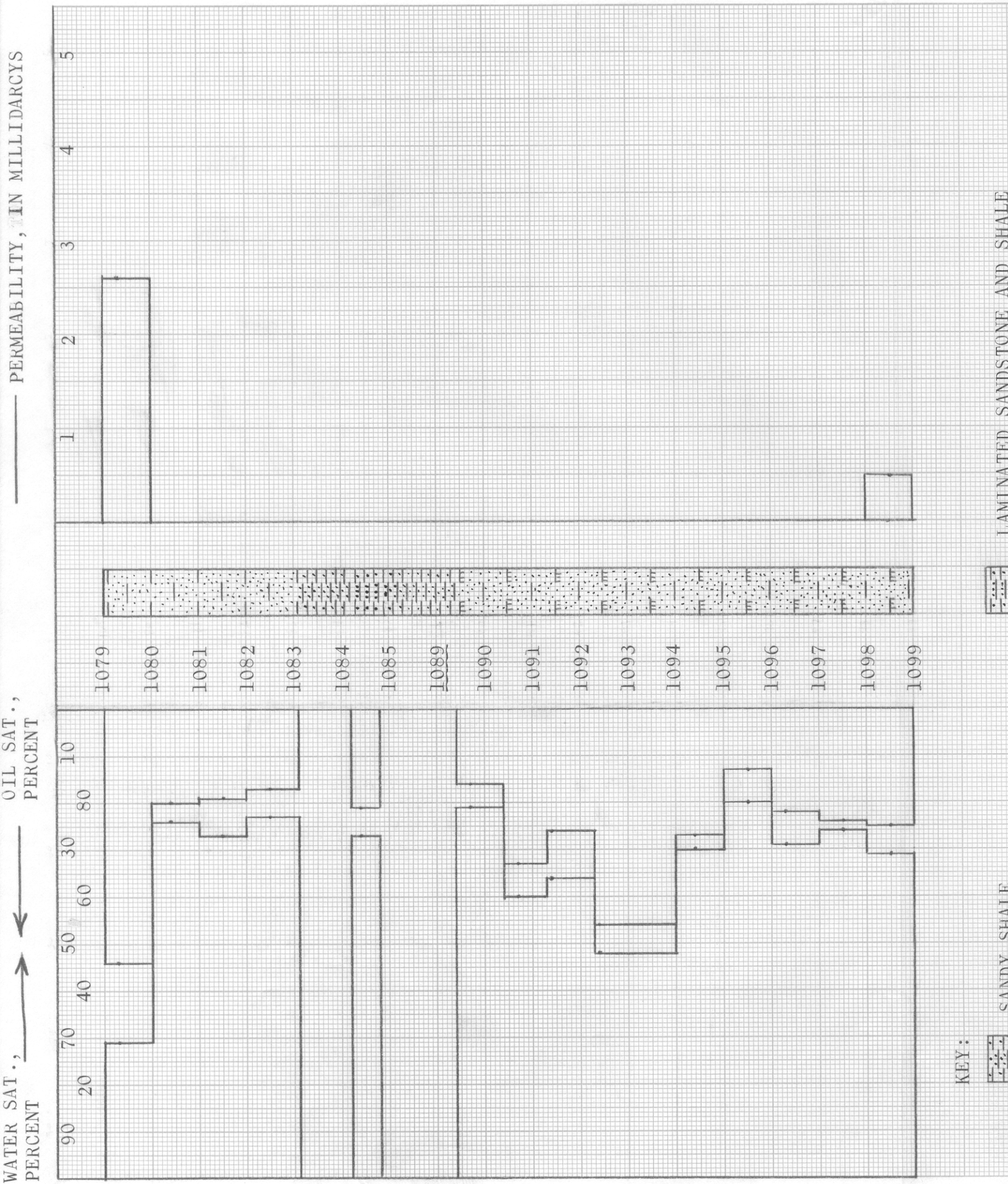
Well No. 4

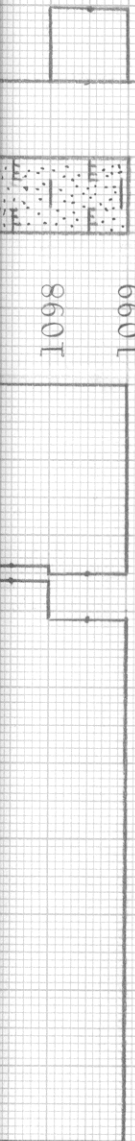
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SUMMARY OF PERMEABILITY & SATURATION TESTS

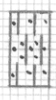
TABLE III

Company	D. Carter Oil & Gas Company	Lease	Venamon	Well No.	4	
	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
	1079.0 - 1099.0	2.0	1.5	3.09		
	Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Total Oil Content Bbls./Acre
	1079.0 - 1099.0	14.3	11.9	26.9	66.4	261
						3,734

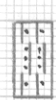




KEY:



SANDY SHALE



LAMINATED SANDSTONE AND SHALE



SHALY SANDSTONE



SHALY CALCAREOUS SANDSTONE

D. CARTER OIL & GAS COMPANY

VENAMON LEASE

WELL NO. 4

CHAUTAUQUA COUNTY, KANSAS

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

1079.0 - 1099.0

14.3

11.9

26.9

66.4

1.5

OILFIELD RESEARCH LABORATORIES
CHANUTE, KANSAS
FEBRUARY, 1981

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