

OILFIELD RESEARCH LABORATORIES

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

December 19, 1980

Tri Valley, Inc.
114 South Depot
Cherryvale, Kansas 67335

Gentlemen:

Enclosed herewith are the reports of tests run on the rotary core taken from the Woods Lease, Well No. 1, located in Montgomery County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and submitted to our laboratory on December 9, 1980.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/kas

5 c to Cherryvale, Kansas

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GENERAL INFORMATION & SUMMARY

Company Tri Valley, Inc. Lease Woods Well No. 1
 Location W $\frac{1}{2}$ SW $\frac{1}{4}$
 Section 4 Twp. 32S Rge. 17E County Montgomery State Kansas

Elevation, Feet	-
Name of Sand	Bartlesville
Top of Core	666.0
Bottom of Core	678.0
Top of Sand	666.0
Bottom of Sand	678.0
Total Feet of Permeable Sand	9.0

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 1	2.7	2.7
1 - 10	3.0	5.7
15 - 25	3.3	9.0

Average Permeability Millidarcys	9.0
Average Percent Porosity	12.7
Average Percent Oil Saturation	35.5
Average Percent Water Saturation	45.2
Average Oil Content, Bbls./A. Ft.	365.
Total Oil Content, Bbls./Acre	3,941.

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LOG

Name Tri Valley, Inc. Lease Woods Well No. 1

<u>Depth Interval, Feet</u>	<u>Description</u>
666.0 - 668.7	Light brown and gray laminated sandstone and shale.
668.7 - 669.9	Gray laminated sandstone and shale.
669.9 - 671.0	Brown shaly sandstone.
671.0 - 674.3	Brown sandstone.
674.3 - 675.2	Brown shaly sandstone.
675.2 - 678.0	Grayish brown very shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Tri Valley, Inc. Lease Woods Well No. 1

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	666.5	11.0	41	52	93	350	2.7	1.0	1.0	350	2.70
2	667.5	7.0	18	73	91	98	0.28	1.0	2.0	98	0.28
3	668.5	14.9	37	33	70	428	0.26	0.7	2.7	300	0.18
4	670.5	10.5	47	50	97	383	4.7	1.1	3.8	421	5.17
5	671.5	19.3	30	39	69	449	20.	1.0	4.8	449	20.00
6	672.5	15.3	37	32	69	439	24.	1.0	5.8	439	24.00
7	673.6	14.8	29	35	64	333	18.	1.3	7.1	433	23.40
8	674.6	13.5	37	39	76	388	5.6	0.9	8.0	349	5.04
9	675.5	13.6	54	27	81	570	Imp.	0.8	8.8	456	0.00
10	676.5	5.9	12	83	95	55	Imp.	1.0	9.8	55	0.00
11	677.7	14.1	54	29	83	591	0.26	1.0	10.8	591	0.26

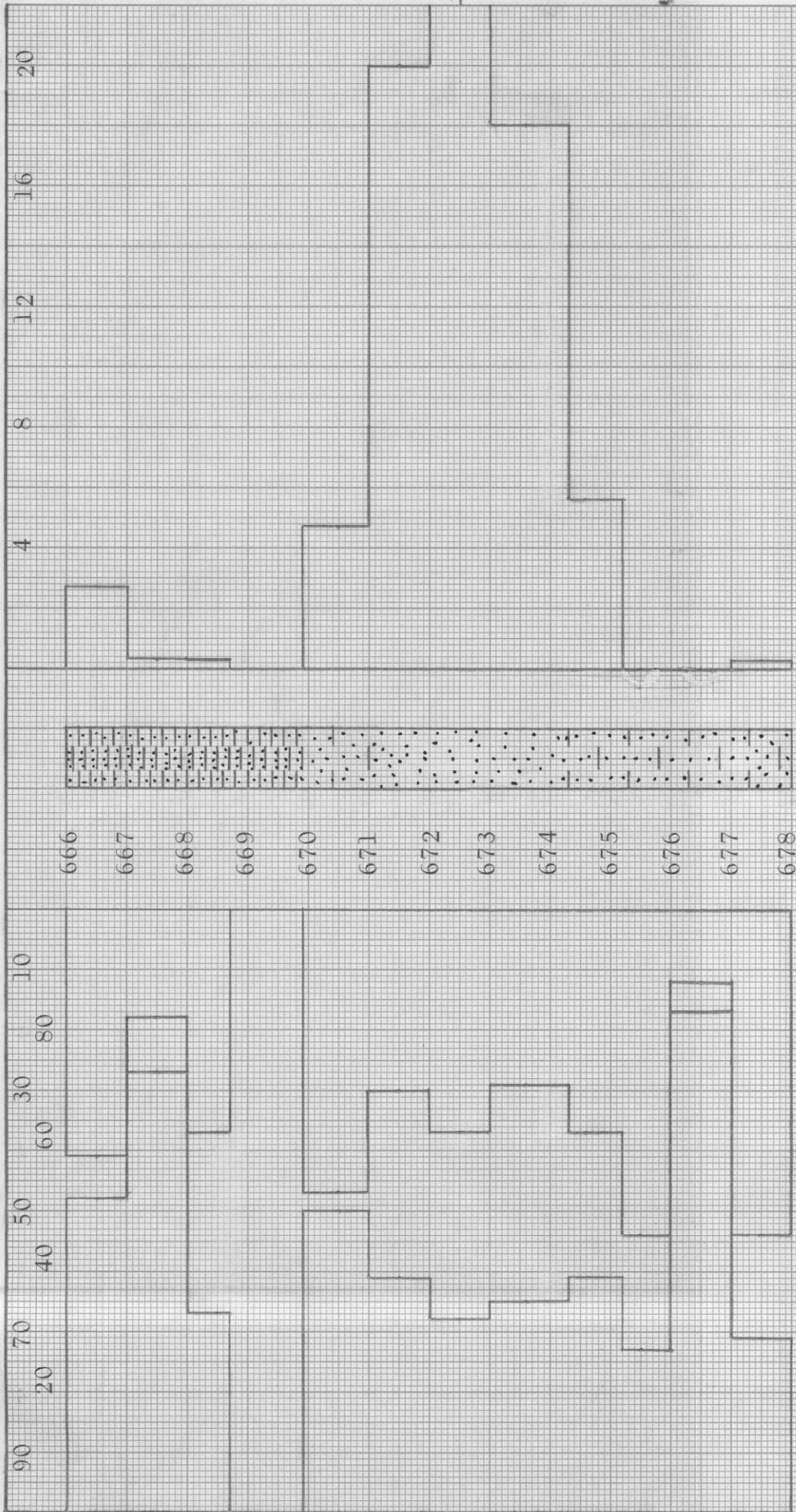
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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Tri Valley, Inc.	Lease	Woods	Well No.		
				1		
	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
	666.0 - 678.0	9.0	9.0	81.03		
	Depth Interval, Feet	Feet of Core Analyzed	Average Percent Oil Saturation	Average Percent Water Saturation	Total Oil Content Bbls./Acre	
	666.0 - 678.0	10.8	12.7	35.5	45.2	3,941

WATER SAT., PERCENT → OIL SAT., PERCENT ←



KEY:

▨ LAMINATED SANDSTONE & SHALE

▨ SHALY SANDSTONE

▨ SANDSTONE

TRI - VALLEY, INC.

WOODS LEASE
MONTGOMERY, COUNTY, KANSAS
WELL NO. 1

DEPTH INTERVAL,

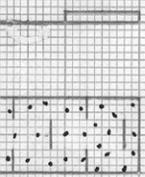
FEET OF CORE

AVERAGE
POROSITY

AVG. OIL
SATURATION

AVG. WATER
SATURATION

AVERAGE
PERMEABILITY



677

678

KEY:



LAMINATED SANDSTONE & SHALE



SANDSTONE



SHALY SANDSTONE

TRI - VALLEY, INC.

WOODS LEASE

MONTGOMERY, COUNTY, KANSAS

WELL NO. 1

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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666.0 - 678.0

10.8

12.7

35.5

45.2

9.0

OILFIELD RESEARCH LABORATORIES
CHANUTE, KANSAS
DECEMBER, 1980

SO