

DAVIS OIL COMPANY

CORE ANALYSIS REPORT

UMBARGER LEASE

WELL NO. ~~Q-9W~~

F-12

WILSON COUNTY, KANSAS

OILFIELD RESEARCH LABORATORIES

538 N. HIGHLAND

CHANUTE, KANSAS



# OILFIELD RESEARCH LABORATORIES

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

September 19, 1977

Davis Oil Company  
212 East Locust  
Independence, Kansas 67301

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary core taken from the Umbarger Lease, Well No. Q-9W, Wilson County, Kansas, and submitted to our laboratory on September 9, 1977.

This core was sampled by a representative of Oilfield Research Laboratories after it was received in the laboratory.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Carl L. Pate

CLP:cb

5 c to Independence, Kansas



OILFIELD RESEARCH LABORATORIES

- LOG -

Company Davis Oil Company Lease Umbarger Well No. Q-9W

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
667.0 - 671.0	Dark fine grained sandstone.
671.0 - 675.2	Dark brown shaly sandstone.
675.2 - 682.0	Dark and gray laminated shaly sandstone.

**Oilfield Research Laboratories**

**RESULTS OF SATURATION & PERMEABILITY TESTS**

**TABLE 1-B**

Company Davis Oil Company Lease Umberger Well No. Q-9W

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	667.5	23.3	47	14	61	852	24.	1.0	1.0	852	24.00
2	668.5	25.0	56	12	68	1,086	69.	1.0	2.0	1,086	69.00
3	669.4	26.4	40	9	49	821	118.	1.0	3.0	821	118.00
4	670.5	24.0	45	9	54	840	99.	1.0	4.0	840	99.00
5	671.5	26.5	44	8	52	907	58.	1.0	5.0	907	58.00
6	672.5	22.3	49	15	64	850	31.	1.0	6.0	850	31.00
7	673.5	20.6	49	18	67	785	31.	1.0	7.0	785	31.00
8	674.5	17.7	67	10	77	920	26.	1.2	8.2	1,104	31.20
9	675.5	20.2	49	14	63	770	1.9	0.8	9.0	616	1.52
10	676.5	20.5	51	16	67	813	1.7	1.0	10.0	813	1.70
11	677.5	15.6	42	32	74	509	28.	1.0	11.0	509	28.00
12	678.5	25.8	29	12	41	582	0.21	1.0	12.0	582	0.21
13	679.5	19.3	31	18	49	465	Imp.	1.0	13.0	465	0.00
14	680.5	14.6	33	36	69	375	1.0	1.0	14.0	375	1.00
15	681.5	15.5	42	43	85	506	Imp.	1.0	15.0	506	0.00

**Oilfield Research Laboratories**

**SUMMARY OF PERMEABILITY & SATURATION TESTS**

**TABLE III**

Company Davis Oil Company Lease Umbarger Well No. Q-9W

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
667.0 - 675.2	8.2	56.2	461.20
675.2 - 682.0	4.8	6.8	32.43
667.0 - 682.0	13.0	38.0	493.63

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
667.0 - 675.2	8.2	23.1	50.0	11.8	884	7,245
675.2 - 682.0	6.8	18.7	39.3	24.7	569	3,866
667.0 - 682.0	15.0	21.1	45.2	17.7	741	11,111