

# OILFIELD RESEARCH LABORATORIES

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

September 8, 1981

D F W Petroleum, Inc.  
1506 Park  
Harvey Center  
Oklahoma City, Oklahoma 73102

Gentlemen:

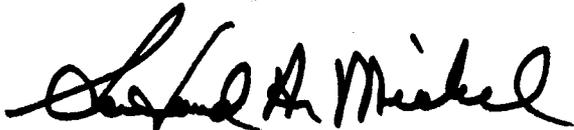
Enclosed herewith are the results of tests run on the rotary core taken from the E. Heisler Lease, Well No. F-14(9), located in Allen County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and submitted to our laboratory on September 1, 1981.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES



Sanford A. Michel

SAM/mkf

4 c to Oklahoma City, Ok.  
1 c to Elsmore, Ks.

T265, R. 21E, Sec 8

- REGISTERED ENGINEERS -

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

**Oilfield Research Laboratories**  
**GENERAL INFORMATION & SUMMARY**

Company D F W Petroleum, Inc. Lease E. Heisler Well No. F-14 (9)

Location \_\_\_\_\_

Section \_\_\_\_\_ Twp. \_\_\_\_\_ Rge. \_\_\_\_\_ County Allen State Kansas

Elevation, Feet .....

Name of Sand.....

BARTLESVILLE SAND

Top of Core .....

656.0

Bottom of Core .....

661.0

Top of Sand .....

656.0

Bottom of Sand .....

659.6

Total Feet of Permeable Sand .....

1.6

Distribution of Permeable Sand:  
Permeability Range  
Millidarcys

Feet

Cum. Ft.

0 - 10

1.6

1.6

Average Permeability Millidarcys .....

6.0

Average Percent Porosity .....

11.8

Average Percent Oil Saturation .....

13.2

Average Percent Water Saturation.....

81.6

Average Oil Content, Bbls./A. Ft.....

119.

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

430.

OILFIELD RESEARCH LABORATORIES

LOG

Name DFW Petroleum, Inc. Lease E. Heisler Well No. F-14 (9)

<u>Depth Interval, Feet</u>	<u>Description</u>
	<u>BARTLESVILLE SAND</u>
630.0 - 630.6	Brown sandstone.
630.6 - 631.0	Gray shale.
631.0 - 656.0	No core.
656.0 - 659.6	Gray shaly sandstone.
659.6 - 660.1	Gray laminated shale and sandstone.
660.1 - 661.0	Gray shale.

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company D F W Petroleum, Inc. Lease E. Heisler Well No. F-14 (9)

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbbs. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
* 1	630.5	14.4	36	36	72	402	10.	0.6	0.6	241	6.00
2	656.5	12.1	14	78	92	131	Imp.	1.0	1.0	131	0.00
3	657.5	10.4	13	84	97	105	Imp.	1.0	2.0	105	0.00
4	658.4	11.8	15	80	95	137	8.9	1.0	3.0	137	8.90
5	659.5	13.6	9	86	95	95	1.2	0.6	3.6	57	0.72
NOTE: * Sample not included in averages.											

# Oilfield Research Laboratories

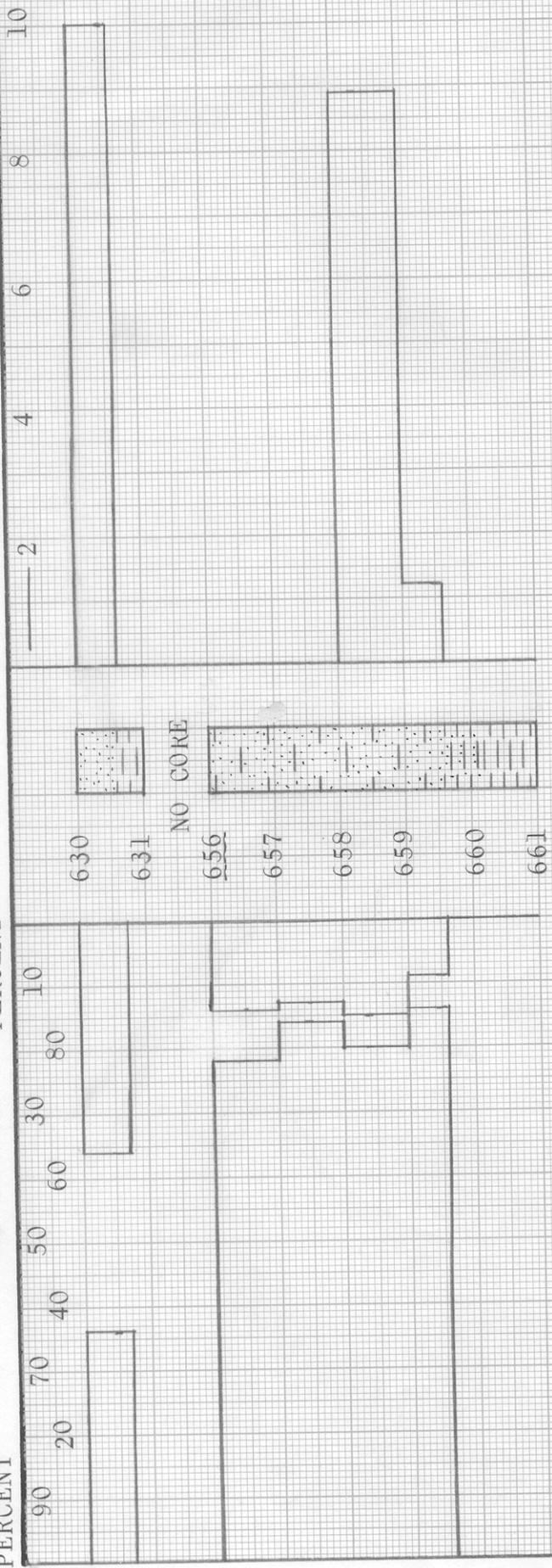
## SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	E. Heisler	Well No.
D F W Petroleum, Inc.			F-14 (9)
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
656.0 - 659.6	1.6	6.0	9.62
Depth Interval, Feet	Average Percent Porosity	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.
656.0 - 659.6	11.8	81.6	119
		13.2	430

NOTE: Sample No. 1 not included in averages.

WATER SAT., PERCENT



KEY:

SANDSTONE

SHALY SANDSTONE

SHALE

LAMINATED SANDSTONE AND SHALE

# DFW PETROLEUM, INC.

E. HEISLER LEASE

ALLEN COUNTY, KANSAS

WELL NO. F-14 (9)

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCS
656.0 - 659.6	3.6	11.8	13.2	81.6	6.0

NOTE: SAMPLE NO. 1 IS NOT INCLUDED IN AVERAGES.

SANDSTONE

SHALE

SHALY SANDSTONE

LAMINATED SANDSTONE AND SHALE

# D F W PETROLEUM, INC.

E. HEISLER LEASE

WELL NO. F-14 (9)

ALLEN COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCS
656.0 - 659.6	3.6	11.8	13.2	81.6	6.0

NOTE: SAMPLE NO. 1 IS NOT INCLUDED IN AVERAGES.

OILFIELD RESEARCH LABORATORIES  
CHANUTE, KANSAS  
SEPTEMBER, 1981

PDC