



MIDLAND, TEXAS

October 29, 1959

Cities Service Oil Company
Cities Service Building
Bartlesville, Oklahoma

Att: Mr. R. A. Lenser

Dear Sirs:

The cores from your Yaege #9 well in Riley County, Kansas, have been analyzed for porosity, permeability, and water and oil saturation as per cent pore space occupied. The results are herewith submitted in both tabular and graphic form. The graph is plotted on a scale of 5" to 100' to correlate with the electric logs of the same scale.

We appreciate your business, and hope the results are satisfactory.

Yours very truly,

L. C. Locke

ROTARY ENGINEERS LABORATORIES

CORE ANALYSIS TABULAR DATA

COMPANY <u>Cities Service Oil Co.</u>	WELL <u>Yaeger #9</u>	FIELD
COUNTY <u>Riley</u>	STATE <u>Kansas</u>	DATE <u>10-29-59</u> ANALYST <u>LCL</u>
FORMATION <u>Hunton Lime</u>	TYPE ANALYSIS <u>Whole Core and Conventional</u> JOB NO. <u>R-2689</u>	

REMARKS

SAMPLE NUMBER	DEPTH	PLUG PERM M. D.	PLUG POROSITY %	EFFECTIVE POROSITY %	PERMEABILITY OF EFFECTIVE POROSITY M. D.	TOTAL WATER SATURATION % P. V.	RESIDUAL OIL SATURA- TION % P. V.	REMARKS
	1590-13			no analysis				
1	1613-14	1.5	19.7					Shale Sandy Limey
2	-15	2.4	17.9					
3	-16	28.5	16.7			70.6	0	
4	-17	208.0	16.4					
5	-18		17.0			70.0	0	Shale
6	-19	129.0	18.0			66.0	19.4	Sandy
7	-20	910.0	16.9			69.0	23.2	Sand
8	-21	28.5	22.7			70.8	3.5	Shale Sandy
9	-22		28.6			77.6	5.2	
10	-22	297.0	17.4					
	-25			no analysis				
	-27			no recovery				
11	1628-29.5			10.6	20.6	54.0	0	Dolo. Shale Dolo.
12	-31			2.9	1.4			
13	-32.5			1.5	.4			
14	-34			3.0	.2			
15	-35.5			1.7	.6	75.5	15.1	
16	-37			5.4	11.1	62.6	16.4	
17	-38.5			11.5	5.9			
18	-40			8.2	1.1			
19	-41.5			9.0	1.3			
20	-43			8.6	15.0	30.8	18.5	
21	-44.5			10.4	39.0			
22	-46			3.8	5.8			
23	-48			1.6	.1			
	-86			no analysis				

ROTARY ENGINEERS LABORATORIES

CORE ANALYSIS

MIDLAND, TEXAS

WATER ANALYSIS

COREGRAPH

COMPANY Cities Service Oil Company

WELL Yaeger #9

FIELD

COUNTY Riley

STATE Kansas

FROM

TO

DEPTH

1590

1686

DATE 10-27-59

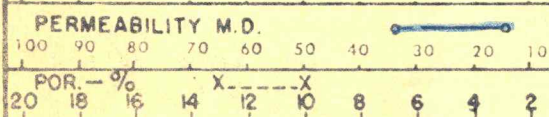
ANALYST LCL

REMARKS Hunton Lime

TYPE CORE BARREL Diamond

ELEVATION

-  SANDSTONE
-  LIMESTONE
-  DOLOMITE
-  SHALE
-  CHERT
-  ANHYDRITE - GYP
-  COAL
-  LOST CORE



DEPTH

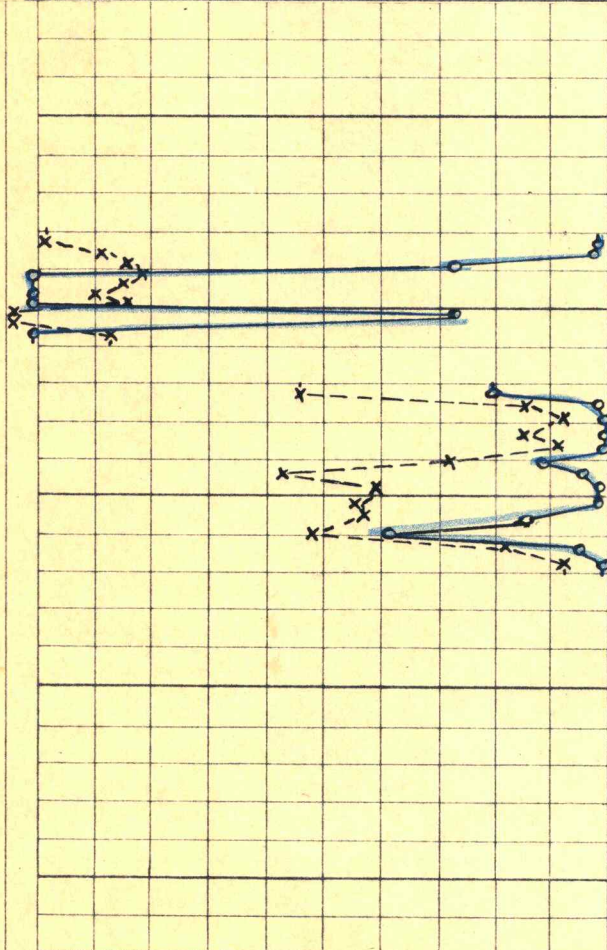
LITHOLOGY

TOTAL WATER SATURATION

90 80 70 60 50 40 30 20 10 0

OIL SATURATION % P.V.

10 20 30 40 50 60 70 80 90 100



1590

1600

20

40

60

80

86

