










CORE LABORATORIES, INC.
 Petroleum Reservoir Engineering
 DALLAS, TEXAS

PRELIMINARY CORE ANALYSIS RESULTS

Company KEWANEE OIL COMPANY Formation MISSISSIPPIAN Date Report 1-6-58
 Well KLINE NO. 1 Cores DIAMOND File CP-1-3130/CP-6-921
 Field HALLETT Drilling Fluid WATER BASE MUD Engineers DONOHUE
 County HODGEMAN State KANSAS Elev. - Location SEC 15-22S-25W

Lithological Symbols and Abbreviations

SAND  SH. SHALE  LM. LIMESTONE  DOL. DOLOMITE  CH. CHERT  CONG. CONGLOMERATE  ANHY. ANHYDRITE  FRAC. FRACTURED  

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs MAX.	POROSITY PERCENT	RESIDUAL SATURATION PER CENT PORE		LITHOLOGY	REMARKS
				OIL	TOTAL WATER		
1	4580.0-81.0	457	117	20.1	27.0	39.4	Dol. Lmy., V-H-Fract., pp Vugs.
(1)	4581.0-85.8						Dol. Lmy., V-H-Fract., pp Vugs.
2	4585.8-87.5	0.7	0.7	15.8	16.1	35.4	Dol. Lmy., pp Vugs.
(1)	4587.5-89.8						Dol. Lmy., pp Vugs.
3	4589.8-91.0	<0.1	<0.1	18.2	13.3	59.5	Lime
4	91.0-92.2	3.3	1.9	18.1	23.5	46.5	Dol. Lmy., pp Vugs.
5	92.2-93.5	1.4	1.0	12.1	28.8	44.9	Dol. Lmy.
6	4593.5-94.0	<0.1	<0.1	2.3	0.0	57.3	Lime VF
(1)	4594.0-95.0						Lime VF

(1) Not analyzed by request of client.

Distribution as per attached list.

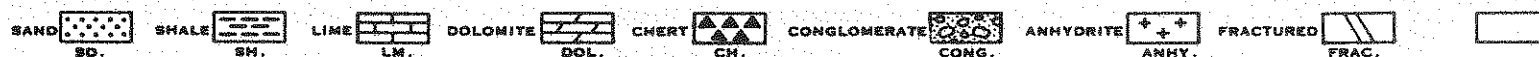
Data mailed from the Oklahoma City laboratory. Phone Ja 5-7421.

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

PRELIMINARY CORE ANALYSIS RESULTS

Company KEWANEE OIL COMPANY Formation MISSISSIPPIAN Date Report 1-7-58
Well KLINE NO. 1 Cores DIAMOND File CP-1-3130/CP-6-921
Field HALLETT Drilling Fluid WATER BASE MUD Engineers DONOHOE
County HODGEMAN State KANSAS Elev. 2502' CM Location SW SE NE SEC 15-22S-25W

Lithological Symbols and Abbreviations



SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs		POROSITY PERCENT	RESIDUAL SATURATION PER CENT PORE		LITHOLOGY	REMARKS
		MAX.	90°		OIL	TOTAL WATER		
(1)	4595.0-03.2						Lime	
7	4603.2-05.2	<0.1	<0.1	3.1	5.8	75.4	Lime Styl.	
(1)	4605.2-11.9						Lime	
8	4611.9-13.5	<0.1	<0.1	7.1	2.3	76.7	Lime pp Vugs.	
9	13.5-15.3	<0.1	<0.1	5.5	4.4	74.8	Lime Styl., Ffine VF, pp Vugs.	
10	15.3-16.9	<0.1	<0.1	6.2	3.7	73.4	Lime Styl., VF, pp Vugs.	
11	16.9-18.5	<0.1	<0.1	9.6	5.5	67.6	Lime Styl., pp Vugs., Sli.Foss.	
12	18.5-20.0	<0.1	<0.1	9.6	2.7	69.5	Lime Styl., pp Vugs., Sli.Foss.	
13	20.0-21.8	16	6.7	17.4	16.9	43.1	Dol. pp Vugs.	
14	21.8-23.6	1.8	0.7	15.4	2.6	73.4	Lime Sli.Dol., pp Vugs.	
15	23.6-25.4	0.6	0.1	12.4	6.2	71.8	Lime Sli.Dol., pp Vugs., W/Calcite Stk	
16	25.4-27.4	2.7	0.5	13.7	19.0	50.6	Dol. Lmy., pp Vugs.	
17	27.4-28.7	2.0	*	14.1	14.7	59.1	Lime Sli. Dol., VF, pp Vugs.	
18	4628.7-30.0	13	*	12.4	8.9	64.0	Lime Dol., VF, pp Vugs.	
(1)	4630.0-33.0						Lime	
(1)	4633.0-36.0						Lime Cherty	
(1)	4636.0-45.0						Shale	
19	4645.0-46.8 4646.9-48.5	5.2	2.0	16.1	2.8	81.8	Lime Cherty, Sli.Shly. Lime Dol., Sli.Vugy.	
20	4648.5-50.0	0.8	0.1	16.5	7.4	68.3	Lime Dol., Cherty, pp Vugs.	

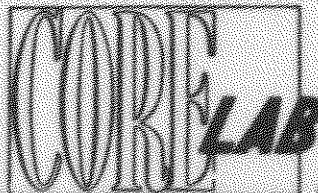
(1) Not analyzed by request of client.

* Denotes plug permeability.

Distribution as per attached list.

Data mailed from the Oklahoma City laboratory. Phone Ja 5-7421.

CORE LABORATORIES, INC.



Petroleum Reservoir Engineering

COMPANY KEMANEE OIL COMPANY DATE ON 1/5/58 FILE NO. CP-6-921 TMI
 WELL KLINE NO. 1 DATE OFF 1/6/58 ENGRS. DONOHUE
 FIELD HALLETT FORMATION MISSISSIPPIAN ELEV. 2502' CM
 COUNTY HODGEMAN STATE KANSAS DRUG. FLD. WATER BASE MUD CORES DIAMOND
 LOCATION SEC. 15-228-25W REMARKS SAMPLED BY CLI ENGINEER AS DIRECTED BY REPRESENTATIVE OF CLIENT

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COMPLETION COREGRAPH

SCALE: 1 INCH = 20 FEET

PERMEABILITY
MILLIDARCY

40 30 20 10 0

TOTAL WATER SATURATION
PERCENT PORE SPACE

100 90 80 70 60 50 40 30 20 10 0

POROSITY
PERCENT

50 45 40 35 30 25 20 15 10 5 0

RESIDUAL OIL SATURATION
PERCENT PORE SPACE

0 10 20 30 40 50 60 70 80 90 100

