

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

BASAL PENN. CONGLOMERATE

Company KEWANEE OIL COMPANY Formation MISSISSIPPIAN Page of
 Well LARKIN NO. 5 Cores DIAMOND File CP-1-2856 WC
 Field HALLET Drilling Fluid WATER BASE MUD Date Report 4-8-57
 County HODGEMAN State KANSAS Elevation 2514' CM Analysts DONOHUE
 Location SE SEC 15-22S-25W Remarks SAMPLED BY CLI & CLIENT

CORE ANALYSIS RESULTS

(Figures in parentheses refer to footnote remarks)

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs	POROSITY PERCENT	RESIDUAL SATURATION		PROBABLE PRODUCTION	REMARKS
				OIL	TOTAL WATER		
				% VOLUME	% PORE		
1	4591.0-92.3	0.2*	14.4	18.8	71.4		
2	4603.6-05.5	<0.1	<0.1	2.1	3.3	81.8	
3	05.5-06.5	<0.1*	2.6	3.8	79.1		
4	4608.3-09.9	<0.1	<0.1	4.6	1.7	77.1	
5	09.9-11.9	<0.1	<0.1	5.7	2.1	78.7	
6	11.9-13.8	6.8	6.0	17.1	26.7	45.0	
7	4613.8-15.0	8.3*	14.0	23.9	50.5		

* Denotes Plug Permeability.

These data are for field use only. Final report will follow.

Thank you.

NOTE:

(*) REFER TO ATTACHED LETTER.

(1) INCOMPLETE CORE RECOVERY—INTERPRETATION RESERVED.

(2) OFF LOCATION ANALYSES—NO INTERPRETATION OF RESULTS.

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operation, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

CORE LABORATORIES, INC.
 Petroleum Reservoir Engineering
 DALLAS, TEXAS

PRELIMINARY REPORT
 From Okla. City Lab.
 Phone REgent 9-1653

Company KEWANEE OIL COMPANY Formation MISSISSIPPIAN Page of
 Well LARKIN NO. 5 Cores DIAMOND File CP-1-2856 WC
 Field HALLET Drilling Fluid WATER BASE MUD Date Report 4-9-57
 County HODGEMAN State KANSAS Elevation 2514' CM Analysts DONOHOE
 Location SE SEC 15-22S-25W Remarks SAMPLED BY REPRESENTATIVE OF CLIENT

CORE ANALYSIS RESULTS

(Figures in parentheses refer to footnote remarks)

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs	POROSITY PERCENT	RESIDUAL SATURATION			PROBABLE PRODUCTION	REMARKS
				OIL		TOTAL		
				% VOLUME	% PORE	WATER % PORE		
8	4615.0-16.7	24 *	17.7	24.3	47.6			
9	16.7-18.5	<0.1*	5.1	17.6	66.6			
10	18.5-20.0	<0.1	<0.1	6.7	4.6	76.0		
11	20.0-21.6	1.4	1.3	9.1	21.3	62.5		
12	21.6-23.0	38 *	15.3	25.3	53.0			
13	23.0-25.0	6.1	3.0	10.9	23.1	59.0		
**14	4625.0-26.0	0.1*						

** Sample number 14 - plug perm only.

* Denotes plug permeability.

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PRELIMINARY REPORT
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Company KEWANEE OIL COMPANY Formation MISSISSIPPIAN Page _____ of _____
Well LARKIN NO. 5 Cores DIAMOND File CP-1-2856 WC
Field HALLET Drilling Fluid WATER BASE MUD Date Report 4-10-57
County HODGEMAN State KANSAS Elevation 2514' CM Analysts DONOHUE
Location SE SEC 15-22S-25W Remarks SAMPLED BY CLI ENGINEER AND REPRESENTATIVE

CORE ANALYSIS RESULTS OF KEWANEE OIL COMPANY
(Figures in parentheses refer to footnote remarks)

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs	POROSITY PERCENT	RESIDUAL SATURATION		PROBABLE PRODUCTION	REMARKS
				OIL % VOLUME % PORE	TOTAL WATER % PORE		
		MAX.	90 ^o				
15	4626.0-27.5	<0.1	<0.1	9.5	10.9	63.9	
16	27.5-29.5	<0.1*		6.3	12.3	66.9	
17	29.5-31.5	2.3	1.9	10.1	7.2	80.6	
18	31.5-33.5	<0.1	<0.1	8.9	0.7	94.0	
19	33.5-35.0	<0.1	<0.1	11.5	3.4	86.1	
20	35.0-36.5	5.8*		11.3	17.1	64.7	
21	36.5-38.4	<0.1*		9.9	16.7	63.3	
22	38.4-39.6	<0.1*		5.7	12.7	64.6	
23	4640.1-41.7	1.5	<0.1	13.5	5.3	72.3	
24	41.7-42.2	<0.1	<0.1	12.4	5.7	75.4	
25	4651.0-52.6	<0.1	<0.1	12.0	2.2	82.2	
26	52.6-54.4	<0.1	<0.1	13.1	Trace	90.3	
27	4654.4-56.4	<0.1	<0.1	11.1	Trace	88.3	

* Denotes plug permeability.

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