

CORE ANALYSIS REPORT
KEWANEE OIL COMPANY
STALEY NO. 4 WELL
HALLET FIELD
HODGEMAN COUNTY, KANSAS

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

REPLY TO
707 MID-CONTINENT BLDG.
TULSA, OKLAHOMA
March 12, 1959

Kewanee Oil Company
P. O. Box 2093
Wichita, Kansas

Attention: Mr. H. S. Erskine

Subject: Core Analysis
Staley No. 4 Well
Hallet Field
Hodgeman County, Kansas
CLI File No. CP-1-3503-WC/CP-10-279

Gentlemen:

Diamond coring equipment and water base mud were used to core the Mississippian formation from 4589 feet to 4640 feet in the subject well. Engineers of Core Laboratories, Inc. selected and quick-froze samples of the recovered formation and transported them to our Oklahoma City laboratory for analysis.

The results of this analysis are presented in tabular form on the accompanying page of this report along with a lithological description of the samples submitted.

Thank you for this opportunity to be of service.

Very truly yours,

Core Laboratories, Inc.

J. G. Evertson, Jr.

J. G. Evertson, Jr. *pe*
District Manager

JGE:PC:pc
enc.

cc: 4 to addressee
2 to Production Dept.
2 to Exploration Dept.
2 to Mr. Pete Blanda
4 to Mr. Everett O'Connell

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

Page No. _____

CORE ANALYSIS RESULTS

Company KEWANEE OIL COMPANY Formation MISSISSIPPIAN File CP-10-279-TMI
 Well STALEY NO. 4 Core Type DIAMOND Date Report 3-12-59
 Field HALLET Drilling Fluid WATER BASE MUD Analysts DONOHUE
 County HODGEMAN State KANSAS Elev. 2493' CM Location SEC 15-22S-25W

Lithological Abbreviations

SAND - SD SHALE - SH LIME - LM	DOLOMITE - DOL CHERT - CH GYPSUM - GYP	ANHYDRITE - ANHY CONGLOMERATE - CONG FOSSILIFEROUS - FOSS	SANDY - SDY SHALY - SHY LIMY - LMY	FINE - FN MEDIUM - MED COARSE - CSE	CRYSTALLINE - XLN GRAIN - GRN GRANULAR - GRNL	BROWN - BRN GRAY - GY VUGGY - VGY	FRACTURED - FRAC LAMINATION - LAM STYLOLITIC - STY	SLIGHTLY - SL/ VERY - V/ WITH - W/
SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCS MAX.	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS		
				OIL	TOTAL WATER			

	4589.0-91.0						Sh, ch	(1)
	4591.0-93.5						Lm, shy, ch	(1)
	4593.5-96.0						Sh, lmy, ch	(1)
	4596.0-98.0						Sh	(1)
	4598.0-03.0						Sh, lmy, ch	(1)
	4603.0-13.0						Lm	(1)
1	4613.0-14.5	96	77	23.9	20.6	62.8	Dol	
2	14.5-15.5	14	7.5	21.6	24.4	57.7	Dol	
3	15.5-17.5	76	76	24.2	19.2	57.2	Dol, pp vugs	
4	17.5-18.5	<0.1	<0.1	5.5	3.1	84.9	Lm, dense	
5	18.5-19.5	60	48	19.9	21.4	43.9	Dol	
6	4619.5-20.0	<0.1	<0.1	7.3	10.8	79.8	Lm, dense	
	4620.0-31.0						Lm	(1)
7	4631.0-32.1	0.6	0.6	9.1	13.1	60.9	Dol, pp vugs, vert frac	
8	4632.1-33.0	0.3	0.1	13.9	3.3	79.5	Dol, lmy, pp vugs	
	4633.0-40.0						Lm, dol	(1)

(1) Not analyzed by request of client.