

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

December 21, 1971

REPLY TO
8 N. W. 42ND ST.
OKLAHOMA CITY, OKLA.
73118

Tomlinson Oil Company
200 West Douglas
Wichita, Kansas 67202

Attn: Mr. Robert Gill

Subject: Core Analysis Data
Barr No. 1 Well
Leavenworth County, Kansas
CLI File No. CP-1-7517

Gentlemen:

The Cherokee and Mississippian formations were diamond cored in the subject well from 1397 to 1439 feet and from 1439 to 1454 feet respectively on December 3 and 4, 1971. The cores were shipped to our Oklahoma City laboratory where conventional plug type analysis was made on the samples submitted. The resulting data is presented on page one of this report.

Cherokee sand from 1421 to 1423.5 feet has residual fluid saturations suggestive of gas productivity with some small accompanying oil volume due to divergent viscosity values.

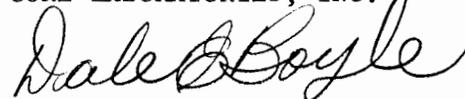
Scattered samples from the Mississippian limestone were submitted for analysis and higher residual oil values are measured due to higher viscosity oil present. The interval appears to be oil productive; however, gas productivity could be apparent due to viscosity variation of the two mobile hydrocarbons.

The two zones have low permeability values and any completion must necessarily be obtained through an excellent formation treatment.

We are pleased to have been of service.

Very truly yours,

CORE LABORATORIES, INC.



Dale E. Boyle,
Lab Services Manager

DEB:sh
7cc: Addressee

CORE ANALYSIS RESULTS

Company TOMLINSON OIL COMPANY Formation AS NOTED File CP-1-7517
 Well BARR NO. 1 Core Type DIAMOND Date Report 12-21-71
 Field _____ Drilling Fluid WATER Analysts BOYLE
 County LEAVENWORTH State KANSAS Elev. 1020' GL Location NW NE SECTION 13-8S-21E

Lithological Abbreviations

SAND - SD	DOLOMITE - DOL	ANHYDRITE - ANHY	SANDY - SDY	FINE - FN	CRYSTALLINE - XLN	BROWN - BRN	FRACTURED - FRAC	SLIGHTLY -
SHALE - SH	CHERT - CH	CONGLOMERATE - CONG	SHALY - SHY	MEDIUM - MED	GRAIN - GRN	GRAY - GR	LAMINATION - LAM	VERY - V/
LIME - LM	GYPHUM - GYP	FOSSILIFEROUS - FOSS	LIMY - LMY	COARSE - CSE	GRANULAR - GRNL	VUGGY - VGY	STYLOLITIC - STY	WITH - W/

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS		POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
		PERM. MAX.	PERM. 90°		OIL	TOTAL WATER	
CONVENTIONAL ANALYSIS							
	1397.0-1407.0						CHEROKEE FORMATION
							CORE NO. 1
							Not submitted
1	1407.0-08.0	0.3		13.1	0.0	78.2	Sd, silty, w/sh stks
	08.0-21.0						Not submitted
2	21.0-22.0	9.8		21.7	12.8	59.6	Sd, sl/silty, w/sh incl
3	22.0-23.0	15		17.2	12.8	59.7	Sd, silty, shy
4	23.0-23.5	4.0		19.1	13.5	66.3	Sd, silty, shy
	1423.5-39.0						Not submitted
MISSISSIPPIAN FORMATION							
							CORE NO. 2
5	1439.0-40.0	<0.1		6.3	47.2	28.8	Lm, sl/shy, pp vugs, vert fr
	40.0-42.0						Not submitted
6	42.0-43.0	0.1		8.2	34.0	46.4	Lm, pp vugs, w/dse stks
7	43.0-44.0	42		10.7	46.6	32.7	Lm, pp vugs, vert frac
	44.0-46.0						Not submitted
8	46.0-47.0	0.4		10.7	19.7	43.9	Lm, pp vugs, w/dse stks
	1447.0-54.0						Not submitted

THIS IS THE FINAL REPORT.