CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

T-31-24N-3W

CORE ANALYSIS REPORT

FOR

TRANSOCEAN OIL, INC.

FEDERAL 28714 NO. 2
CHACON DAKOTA FIELD
RIO ARRIBA COUNTY, NEW MEXICO

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TRANSOCEAN OIL, INC.
FEDERAL 28714 NO. 2
CHACON DAKOTA FIELD
RIO ARRIBA COUNTY, NEW MEXICO

DATE : 10-24-78
FORMATION :
DRLG. FLUID:

FILE NO : 2202-10384-6
ANALYSTS : WELLS
LABORATORY: HOUSTON
CORES :

SIDE WALL CORE ANALYSIS

REC IN	DEPTH FEET	PERM MD	POR %	OIL% PORE	WTR% PORE	PROB PROD	OIL% BULK	GAS% BULK	GAS DET	DESCRIPTION
1.0	3250.0	0.3	7.9	0.0	81.8	(6)	0.0	1.4	0	SD VFG SSLTY VLMY N FLU
0.6	3259.0	<0.1	7.6	0.0	86.8		0.0	1.0	0	SD VFG VSHY LMY N FLU
1.0	3294.0	<0.1	11.4	0.0	73.8		0.0	3.0	0	SD VFG VSHY LAM LIG N FLU
0.7	3310.0					(1)	0.0			SD VFG SHY LMY N FLU
0.9	4089.0	5.0	13.6	0.0	80.3	WTR	0.0	2.7	0	SD VFG SSHY LIG N FLU
1.0	4097.0								0	COAL
0.7	4170.0	3.5	10.9	0.0	81.1	WTR	0.0	2.1	0	SD VFG SSHY N FLU
0.9	4195.0	1.3	12.3	0.0	84.0	(6)	0.0	2.0	0	SD F-VFG CLN N FLU
0.9	4840.0								0	COAL
	4854.0									NO RECOVERY
0.9	5130.0	0.4	10.1	0.0	75.4	(6)	0.0	2.5	0	SD VFG SHY LAM N FLU
1.5	5145.0	<0.1	7.0	0.0	84.0		0.0	1.1	0	SD VFG VSHY N FLU
	5169.0									NO RECOVERY
1.0	5237.0	0.5	9.0	0.0	74.7	(6)	0.0	2.3	0	SD VFG VSLTY N FLU
0.9	5240.0	0.9	12.8	0.0	77.7	(6)	0.0	2.8	0	SD VFG VSLTY N FLU
0.7	5252.0	8.5	17.3	0.0	80.2	WTR	0.0	3.4	0	SD F-VFG VSLTY N FLU

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0.6	5268.0	1.5	12.0	0.0	73.1	(6)	0.0	3.2	0	SD F-VFG SLTY N FLU
0.8	5357.0	0.3	15.8	0.0	83.3	(6)	0.0	2.6	0	SD VFG VSLTY N FLU
0.9	5367.0	1.0	13.0	1.2	84.0	(6)	0.2	1.9	0	SD FG VSLTY LIG STKS SPTS YL FLU
1.0	5386.0	<0.1	10.2	0.0	87.8		0.0	1.2	0	SD VFG VSLTY N FLU
0.7	5392.0	6.2	14.7	0.0	82.1	WTR	0.0	2.6	0	SD FG SLTY-VSLTY N FLU
0.6	5510.0	<0.1	9.4	0.0	82.5		0.0	1.6	0	SD FG VSLTY N FLU
0.9	6449.0	0.1	11.1	0.0	77.2	(6)	0.0	2.5	0	SD VFG VSLTY LMY N FLU
0.8	6505.0	0.2	11.9	0.0	87.3	(6)	0.0	1.5	0	SD F-VFG VSLTY VLMY N FLU
0.9	6508.0	<0.1	11.5	0.0	76.3		0.0	2.7	0	SD VFG VSLTY LMY N FLU
1.0	6602.0								0	SHALE VLMY
0.7	6626.0					(1)	0.8			SD VFG VSLTY VLMY N FLU
	7172.0									NO RECOVERY
0.9	7174.0								0	SHALE SDY STKS VLMY N FLU
0.8	7439.0								0	
0.9	7452.0								0	MUDCAKE
0.8	7462.0	<0.1	5.2	0.0	94.1		0.0	0.3	0	SD VFG SHY VSLTY VLMY N FLU
0.7	7465.0	<0.1	8.1	0.0	76.2		0.0	1.9	0	SD VFG SHY VSLTY VLMY N FLU
	7548.0									NO RECOVERY

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0.7	7556.0					(1)	0.7			SD VFG SHY-VSHY LMY B STKS FLU

(1) ALTERED CORE
(6) LOW PERMEABILITY

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CRITICAL WATER SATURATION

Critical water is the maximum water saturation permissible in the reservoir for each sample if the formation is hydrocarbon productive. The value is an estimate obtained using core analysis permeability and porosity values and average critical water correlations.*

This interpretive method requires a comparison of critical water saturation obtained from core data with the formation water saturation calculated from the resistivity log. Hydrocarbon production is indicated if the actual formation water saturation in the reservoir is less than the critical value.

The core analysis critical value represents a specific depth. The log calculated value is affected by resistivity averaging over an interval of more than four feet. Consequently, the comparison of the two water values may yield a pessimistic interpretation in thin bedded hydrocarbon productive zones. It is essential that sufficient samples be analyzed to assure representative core data and that allowance be made for thin bed resistivity averaging effect.

*Granberry, Raymond J., and Keelan, Dare K., 1977, *Critical Water Estimates for Gulf Coast Sands:* Gulf Coast Assoc. Geol. Soc. Trans., XXVII, p. 41–43.

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FIRST CITY EAST BLDG.
10TH FLOOR
HOUSTON, TEXAS 77002
ATTN: MR. SCOTT BECKER