

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

CORE ANALYSIS REPORT

FOR

TIGER OIL COMPANY

STATE 42-36
WILDCAT
ADAMS COUNTY, COLORADO



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TIGER OIL COMPANY
 STATE 42-36
 WILDCAT
 ADAMS COUNTY, COLORADO

DATE : 5-5-82
 FORMATION : "J" SAND
 DRLG. FLUID: WATER BASE MUD
 LOCATION : SE NE SEC 36-T3S-R59W

FILE NO : RP-2-6863
 ANALYSTS : CW;FD
 ELEVATION: 5140' GL

CONVENTIONAL CORE ANALYSIS

SAMPLE NUMBER	DEPTH	PERM. TO AIR (MD) MAXIMUM VERTICAL	POR. FLD	FLUID SATS. OIL WTR	DESCRIPTION
1	6079.0-80.0	13.	6.20	20.6	5.9 64.0 SD GY V/FN-MED SHLY
2	6080.0-81.0	16.	4.40	20.9	3.0 72.8 SD GY V/FN-MED SHLY
3	6081.0-82.0	13.	5.90	20.4	3.9 67.4 SD GY V/FN-MED SHLY
4	6082.0-83.0	14.	22. F	13.5	8.2 52.2 SD GY V/FN-MED
5	6083.0-84.0	1.80	0.87	14.8	3.1 71.7 SD GY V/FN-MED SHLY
6	6084.0-85.0	6.00	3.40	11.9	3.8 45.5 SD GY V/FN-MED
7	6085.0-86.0	4.20	0.49	11.8	1.7 63.4 SD GY V/FN-MED SHLY
8	6086.0-87.0	0.75	0.10	11.5	1.7 76.0 SD GY V/FN-MED SHLY
	6087.0-6117.0				SHALY SAND - NO ANALYSIS

F = FRACTURED PERMEABILITY PLUG

PERMEABILITY VS POROSITY

COMPANY: TIGER OIL COMPANY
 FIELD : WILDCAT

WELL : STATE 42-36
 COUNTY, STATE: ADAMS COUNTY, COLORADO

AIR PERMEABILITY : MD - HORIZONTAL (UNCORRECTED FOR SLIPPAGE)
 POROSITY : PERCENT (FLUID SUMMATION)

DEPTH INTERVAL	RANGE & SYMBOL	PERMEABILITY		POROSITY		POROSITY AVERAGE	PERMEABILITY AVERAGES		
		MINIMUM	MAXIMUM	MIN.	MAX.		ARITHMETIC	HARMONIC	GEOMETRIC
6079.0 - 6087.0	1 (X)	0.500	20.0	10.0	22.0	15.7	8.6	3.1	5.8

EQUATION OF REDUCED LINE RELATING PERMEABILITY(K) TO POROSITY :

$$\begin{aligned} \text{LOG}(K) &= (\text{SLOPE})(\text{POROSITY}) + \text{LOG OF INTERCEPT} \\ K &= \text{ANTILOG}((\text{SLOPE})(\text{POROSITY}) + \text{LOG OF INTERCEPT}) \end{aligned}$$

RANGE	EQUATION OF THE LINE
1	PERM = ANTILOG((0.1140)(POROSITY) + -1.0225)

