

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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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 :
 $\log(K) = (\text{SLOPE})(\text{POROSITY}) + \log \text{ OF INTERCEPT}$
 $K = \text{ANTILOG}((\text{SLOPE})(\text{POROSITY}) + \log \text{ OF INTERCEPT})$

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

PERMEABILITY:MILLIDARCIES

100

10

1.0

0.1

8.0

10.0

12.0

14.0

16.0

18.0

20.0

POROSITY:PERCENT

PERMEABILITY VS. POROSITY

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