

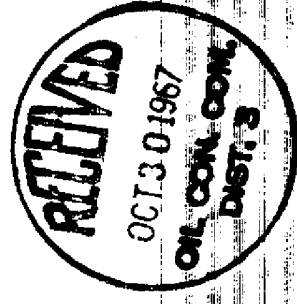
CORE ANALYSIS FOR

BURSCAN OIL COMPANY

NO. 3 OH WELL

WILDCAT FIELD

MCKINLEY COUNTY, NEW MEXICO



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Petroleum Reservoir Engineering
DALLAS, TEXAS

Page No. 1

CORE ANALYSIS RESULTS

Company BURSCAN OIL COMPANY Formation MESA VERDE File RP-3-2251
Well OH NO. 3 Core Type DIAMOND 2" Date Report 9-13-67
Field WILDCAT Drilling Fluid WATER BASE MUD Analysts GALLOP
County MC KINLEY State N.M. Elev. _____ Location NE NW/4 SEC 28-T20N-R9W

Lithological Abbreviations

SAND-SO 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 KA	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS		
				OIL	TOTAL WATER			

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCS KA	POROSITY PER CENT	OIL	TOTAL WATER	SAMPLE DESCRIPTION AND REMARKS
1	508-09	22	21.5	0.9	91.1	SS:LT GY FN GRN
2	09-10	11	27.4	7.3	89.3	SS:GR V/FN GRN SHY
3	10-11	77	27.4	13.5	78.3	SS:GR FN GRN SL/SHY
4	11-12	71	29.9	16.0	78.5	SS:GR FN GRN SHY
5	12-13	39	24.7	5.7	86.5	SS:GR FN GRN SHY
6	13-14	4.4	23.4	9.4	77.3	SS:LT GR FN GRN SL/SHY

Service #1-A

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BURSCAN OIL COMPANY

WILDCAT

RP-3-2251

OH NO. 3

MC KINLEY

9-13-67

NE NW/4 SEC 28-T20N-R9W

NEW MEXICO

WELL WATER

PERCENT TOTAL WATER

20 10 0 0 20 40 60 80

20 10 0

0 20 40 60 80

508

514

CL-529

CORE SUMMARY AND CALCULATED RECOVERABLE OIL

FORMATION NAME AND DEPTH INTERVAL: MESA VERDE - 508.0 TO 514.0 FEET

FEET OF CORE RECOVERED FROM ABOVE INTERVAL	6	AVERAGE TOTAL WATER SATURATION: PER CENT OF PORE SPACE	83.5
FEET OF CORE INCLUDED IN AVERAGES	6	AVERAGE CONNATE WATER SATURATION: PER CENT OF PORE SPACE	
AVERAGE PERMEABILITY: MILLIDARCYs	37.4	OIL GRAVITY: °API	
PRODUCTIVE CAPACITY: MILLIDARCY-Feet	224	ORIGINAL SOLUTION GAS-OIL RATIO: CUBIC FEET PER BARREL	
AVERAGE POROSITY: PER CENT	25.7	ORIGINAL FORMATION VOLUME FACTOR: BARRELS SATURATED OIL PER BARREL STOCK-TANK OIL	
AVERAGE RESIDUAL OIL SATURATION: PER CENT OF PORE SPACE	8.8	CALCULATED ORIGINAL STOCK-TANK OIL IN PLACE: BARRELS PER ACRE-FOOT	

Calculated maximum solution gas drive recovery is barrels per acre-foot, assuming production could be continued until reservoir pressure declined to zero psig. Calculated maximum water drive recovery is barrels per acre-foot, assuming full maintenance of original reservoir pressure, 100% areal and vertical coverage, and continuation of production to 100% water cut. (Please refer to footnotes for further discussion of recovery estimates.)

INTERPRETATION OF DATA

508.0 to 514.0 feet - Interval believed to be water productive and should be excluded from any production attempt.

These recovery estimates represent theoretical maximum values for solution gas and water drive. They assume that production is started at original reservoir pressure; i.e., no account is taken of production to date or of prior drainage to other areas. The effects of factors tending to reduce actual ultimate recovery, such as economic limits on oil production rates, gas-oil ratios, or water-oil ratios, have not been taken into account. Neither have factors been considered which may result in actual recovery intermediate between solution gas and complete water drive recoveries, such as gas cap expansion, gravity drainage, or partial water drive. Detailed predictions of ultimate oil recovery to specific abandonment conditions may be made in an engineering study in which consideration is given to overall reservoir characteristics and economic factors.

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