

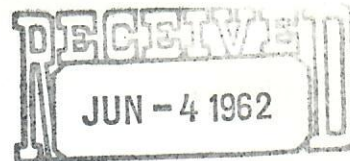


00390339

CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS



OIL & GAS

 Page 1 of 1 File RP 222086
 Well No. 3 Wiant

CORE SUMMARY AND CALCULATED RECOVERABLE OIL

FORMATION NAME AND DEPTH INTERVAL: "J" Sand 3590.0 - 3602.0

| | | | |
|---|------|---|---------|
| FEET OF CORE RECOVERED FROM ABOVE INTERVAL | 12 | AVERAGE TOTAL WATER SATURATION: PER CENT OF PORE SPACE | 47.3 |
| FEET OF CORE INCLUDED IN AVERAGES | 12 | AVERAGE CONNATE WATER SATURATION: PER CENT OF PORE SPACE | 41 |
| AVERAGE PERMEABILITY: MILLIDARCYS | 340 | OIL GRAVITY: °API | 26° (e) |
| PRODUCTIVE CAPACITY: MILLIDARCY-FEET | 4077 | ORIGINAL SOLUTION GAS-OIL RATIO: CUBIC FEET PER BARREL | 20 |
| AVERAGE POROSITY: PER CENT | 24.5 | ORIGINAL FORMATION VOLUME FACTOR: BARRELS SATURATED OIL PER BARREL STOCK-TANK OIL | 1.033 |
| AVERAGE RESIDUAL OIL SATURATION: PER CENT OF PORE SPACE | 36.1 | 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.)

FORMATION NAME AND DEPTH INTERVAL: "J" Sand 3602.0 - 3614.0

| | | | |
|---|------|---|---------|
| FEET OF CORE RECOVERED FROM ABOVE INTERVAL | 12 | AVERAGE TOTAL WATER SATURATION: PER CENT OF PORE SPACE | 48.5 |
| FEET OF CORE INCLUDED IN AVERAGES | 12 | AVERAGE CONNATE WATER SATURATION: PER CENT OF PORE SPACE | 40 |
| AVERAGE PERMEABILITY: MILLIDARCYS | 592 | OIL GRAVITY: °API | 25° (e) |
| PRODUCTIVE CAPACITY: MILLIDARCY-FEET | 7102 | ORIGINAL SOLUTION GAS-OIL RATIO: CUBIC FEET PER BARREL | 20 |
| AVERAGE POROSITY: PER CENT | 25.5 | ORIGINAL FORMATION VOLUME FACTOR: BARRELS SATURATED OIL PER BARREL STOCK-TANK OIL | 1.033 |
| AVERAGE RESIDUAL OIL SATURATION: PER CENT OF PORE SPACE | 34.2 | CALCULATED ORIGINAL STOCK-TANK OIL IN PLACE: BARRELS PER ACRE-FOOT | 1149 |

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.)

(c) Calculated (e) Estimated (m) Measured (*) Refer to attached letter.

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.

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc., and its officers and employees assume no responsibility and make no warranty or representation as to the productivity, proper operation, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

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CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

OIL & GAS
CONSERVATION COMMISSIONPage 1 of 1 File RP-2-2686
Well No. 3 Wiant

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| AVERAGE RESIDUAL OIL SATURATION: PER CENT OF PORE SPACE | 36.1 | CALCULATED ORIGINAL STOCK-TANK OIL IN PLACE: BARRELS PER ACRE-FOOT | 1085 |

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