

NORTH AMERICAN EXPLORATION AND PRODUCTION GROUP Midland Production District

SUN OIL COMPANY 901 W. WALL POST OFFICE BOX 1861, MIDLAND, TEXAS 79701 (915) 682-8271

December 17, 1976

State of New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87501

Attn: Mr. Joe D. Ramey Secretary-Director

RE: DOWN HOLE COMMINGLING APPLICATION J. G. RANDLE - WELL NUMBER 1

Gentlemen:

Sun Oil Company respectfully request an exception to Rule 303-A in order to permit commingling within the well bore, production from the Blinebry and Drinkard Oil Pools in Sun's J. G. Randle #1. This well is located in Unit E, and is 1980' FNL and 660' FWL of Section 20, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico.

Administrative Order No. MC-1606, approving multiple completion in the Blinebry and Drinkard Oil Pools, was granted for the J. G. Randle #1 on March 17, 1965. However, the Blinebry Pool was never dually completed with the Drinkard, and was not perforated until 11-6-76, when 24 holes were shot from 5687-5874. The Drinkard zone, producing from an open hole interval 6642-6679 and from perforations 6576-6620, was isolated on 11-5-76 behind a retrievable bridge plug set at 6560. Subsequent treatment of the Blinebry perfs included acidizing with 3600 gallons of 15% NE FE HCL and fracing with 20,000 gallons gelled lease oil and 26,000# 20-40 sand.

Based on previous production test, Sun is anticipating commingled production to be 22 barrels of oil per day and 308 MCF of gas per day, as the Blinebry perfs in 24 hours produced 13 barrels of oil, no water, and 200 MCF of gas, while production from the Drinkard perfs tested 9 barrels of oil, 1 barrel of water, and 108 MCF of gas. Sun request that 59% of the oil production and 65% of the gas production be allocated to the Blinebry Pool with the remainder credited to the Drinkard.

Estimated bottom hole pressure in the Blinebry Pool is 923# based on fluid level data following an 18 hour shut-in. Bottom hole pressure in the Drinkard Pool is estimated to be 400# based on extrapolating previous pressure data versus the current cumulative production. As the pumping equipment installed on the well is capable of keeping the fluid pumped down, there should be no crossflow between producing intervals.

Page 1

Compatibility of fluids within the well bore is assured due to a minimum of produced water. The Drinkard tested one barrel of water in 24 hours and the Blinebry produced none. Crude API gravities for the Blinebry and Drinkard zones respectively, were 34.5° and 35.4° at 60° F. Value of the commingled production will not be less than the sum of the values of the individual streams, as the value received for the 34.5° crude is \$13.78 and the value received for the 35.4° crude is \$13.80.

Listed below are the offset operators who have been notified in writing of the proposed commingling. Also, the Hobbs District Office of the New Mexico Oil Conservation Commission has been furnished a copy of this application.

Approval of this application will insure that waste has been avoided and that the practice of good conservation will aid in the recovery of additional hydrocarbons without the violation of correlative rights.

If additional information is required, please advise.

Very truly yours, SUN OIL COMPANY

Charles A. Gray Proration Analyst

CAG/g cc: NMOCC - Hobbs >> attachments

OFFSET OPERATOR LIST

Atlantic Richfield Company Box 1610 Midland, Texas 79701

Gulf Oil Corporation Box 1150 Midland, Texas 79701

J. W. Peery Box 401 Midland, Texas 79701 Campbell and Hedrick Box HOL Midland, Texas 79701

Marathon Oil Company Box 2409 Hobbs, New Mexico 88240

Petro-Lewis Corporation Box 2250 Denver, Colorado 80201

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