

FOWLER BLINEBRY OIL POOL
LEA COUNTY, NEW MEXICO

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
Pan Am's EXHIBIT NO. 1
CASE NO. 2742-2743-2744

GENERAL

The Fowler Blinebry Pool was discovered by Gulf Oil Corporations' Plains-Knight Well No. 2 located 1830' FEL and 660' FSL of Section 23, T-24-S, R-37-E. This well was completed in the Blinebry in February 1954, after abandoning deeper zones. The Blinebry potentialed flowing 57 BOPD through three perforated intervals from 5290'-5590' following an 8000 gallon acid treatment.

The only other well presently completed in the Fowler Blinebry is the Pan American South Mattix Unit No. 14 which was completed in July 1962, as a Fowler Blinebry, Paddock, Tubb triple completion. This well potentialed flowing 144 BOPD through a 12/64" choke with a flowing tubing pressure of 400 psi and a GOR of 1060 cubic feet/barrel after stimulation with 2000 gallons of acid. The Blinebry is perforated in this well in nine intervals from 5380' to 5670'.

A third completion was attempted in the Blinebry in the Pan American State "D" Tract 14 Well No. 1, located in Unit P of Section 16, T-24-S, R-37-E. This well recovered only 234 BO from the Blinebry before being recompleted in the Langlie Mattix Field.

Pertinent data for the Fowler Blinebry wells are attached.

STRUCTURAL INFORMATION

The Blinebry structure is a doubly plunging assymmetrical anticline, the major axis of which trends northwest-southeast. The pay closure is approximately 150'.

CHARACTERISTICS OF THE RESERVOIR ROCK AND FLUID

The Fowler Blinebry pay is brown, fine to medium crystalline, sometimes granular in texture, dolomite with inter-crystalline and vuggy porosity.

The Blinebry oil has a gravity of 38° API, a solution GOR of 1060 cubic feet/barrel from PT tests and an assumed original reservoir volume factor of 1.60.

PERFORMANCE DATA

An original BHP of 2041 psi at a datum of -2271' was measured with a BHP bomb in the SMU Well No. 14 immediately after completion in October, 1962. This well has flowed at top allowable of 47 BOPD since completion.

The Gulf Plains-Knight Well No. 2 is apparently located near the limit of porosity development to the southeast. This well has never produced at top

allowable and is currently making approximately 10 BOPD. The estimated cumulative recovery from the Gulf well to January 1, 1963, is 27,600 barrels and, on the current 20% annual decline, the ultimate recovery will be approximately 39,000 barrels.

FOWLER BLINEBRY FIELD
PAN AMERICAN SMU NO. 14

1980' FSL and 1980' FWL
Section 15, T-24-S, R-37-E

TD: 6403'

PBD: 6155'

Casing: 9 5/8" CSA 1068'
7" CSA 6403'

Triple Completion in Paddock, Blinebry, Tubb
Blinebry Perfs:

5380-90'	5517-20'	5664-70'
5425-28'	5535-38'	
5457-60'	5591-94'	
5488-91'	5640-43'	

Initial Potential: Flowed 144 BO and 0 BW in 24 Hours.
12/64" Choke
TPF 400 psi
GOR 1060 - Gravity 38.1°

Stimulation: Acidize with 2000 Gallons

Date Completed: 7/16/62

First Production: October, 1962
Flowing Top Allowable

FOWLER BLINEBRY FIELD
GULF OIL CORPORATION PLAINS KNIGHT NO. 2

1830' FEL and 660' FSL
Section 23, T-24-S, R-37-E

TD: 10,650

PBD: 5692'

Casing: 13 3/8" CSA 338'

9 5/8" CSA 3999'

7" CSA 8360'

Blinebry Perfs: 5290-5389'

5419-5510'

5540-5590'

Initial Potential: Flowed 57 BOPD

3/4" Choke

GOR 19,100

Stimulation: Acidized with 8000 gallons

Date Completion: 2/9/54