

# Mobil Exploration and Producing U.S. Inc.

March 24, 1988

P.O. BOX 633  
MIDLAND, TEXAS 79702

MIDLAND DIVISION

New Mexico Oil Conservation Division  
1000 West Broadway  
Hobbs, New Mexico 88240

Attention: J. T. Sexton  
Supervisor, District I

**DISCOVERY ALLOWABLE AFFIDAVIT  
UNDESIGNATED WOLFCAMP FIELD (OIL)  
LEA COUNTY  
NEW MEXICO**

Dear Sir:

In accordance with Rule 509 of the New Mexico Oil Conservation Division, Mobil Exploration & Producing U.S. Inc. as Agent for Mobil Producing Texas & New Mexico Inc., hereby files this affidavit of claim to Discovery Allowable for a new Wolfcamp Pool in SW/4 of NE/4 of Section 1, T 17 S, R 35 E, Lea County, New Mexico. This claim is based upon a drill stem test of the Wolfcamp Interval in our Lovington Deep State Unit Well No. 3, located 1874' FNL and 1980' FEL of Section 1. A drilling permit was approved for this well on February 10, 1988 to test the South Shoe Bar Upper Penn Pool at a proposed total depth of 11,200'. The well was spudded on February 22, 1988.

On March 17, 1988, the Wolfcamp Interval from 10,210' to 10,318' was tested by means of a packer set in the open hole, with the following result. The interval flowed 12.3 bbls. of gas cut mud, 23.5 bbls. of oil cut mud and 75 bbls. of 41.0 API gravity crude oil over a 169 minute flow interval. The average surface flowing pressure during this interval was 1400 psig. The estimated shut in BHP extrapolated from pressure data was 3390 psig.

In support of this affidavit, please find the following attached:

- 1) copy of certified location plat NMOCD Form C-102;
- 2) partial reproduction of a Wellex Spectral Density Dual Spaced Neutron Log, showing the interval which was drill stem tested;
- 3) copy of Halliburton Services Formation Testing Service Report, dated March 22, 1988.

We request that this information be held confidential.

A:M808469A.TLH

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OCD  
HUMAN OFFICE