

**ENSERCH  
EXPLORATION** INC.

P. O. Box 4815  
Midland, Texas 79704  
915-682-9756

Leonard Kersh  
District Production Manager  
West Texas District  
Production Division

December 3, 1981

New Mexico Department of  
Energy & Minerals  
Oil Conservation Division  
P.O. Box 2088  
Santa Fe, New Mexico 87501

Re: Application for Down-hole  
Commingling of the Collier No. 1

Gentlemen:

Enserch Exploration, Inc. hereby requests authority for down-hole commingling of the Pennsylvanian and Mississippian formations in the Collier Well No. 1 located in Roosevelt County, New Mexico.

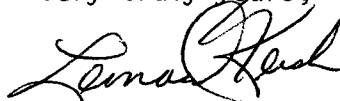
The subject well was TD'd July 16, 1981, and completed in the Mississippian from 8074'-8096'. The final results indicated a marginal oil producer since recovery after 8.5 hours of swabbing was 16 bbls of oil and 41 bbls of spent acid. After setting a cast iron bridge plug, the zone was temporarily abandoned and the Penn formation was tested from 7999'-8008'. This interval initially potentialized for 58 bopd; however, production has declined to a rate of approximately 10 bopd.

*24 hrs / 8.5 hrs (16 bbls)*

*for 24 hr.  
period = 45.18  
BOPD*

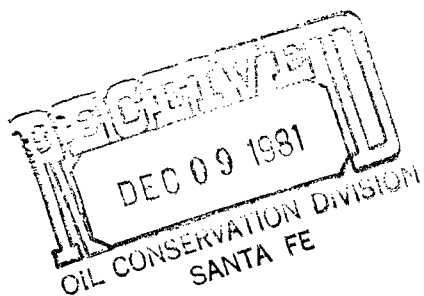
In accordance with Rule 303-C of the OCD Rules and Regulations, information requested upon application of a permit for down-hole commingling of two oil zones is attached.

Very truly yours,



Leonard Kersh  
District Production Manager

LK/NAL/mh  
Attachments



Operator - Enserch Exploration, Inc.  
P.O. Box 4815  
Midland, Texas 79704-4815

Lease - Edwin Collier

Well - No. 1

Location - Sec. 29, T4S, R33E  
1980' FSL, 660' FEL  
Roosevelt County, New Mexico

Pools to be Commingled - Peterson (Miss) Pool  
Undesignated (Penn) Pool

Attached is a copy of Form C-116 showing the amount of oil, water, and gas produced from the Penn formation during the 24-hour test.

Before completing the Penn, the Mississippian formation was perforated and swabbed for 8.5 hours; 16 bbls of oil were recovered, along with a good show of gas. This zone, however, was not potentialized.

Current Status -

The subject well was perforated from 7999'-8008' (total shot=10') through the Penn formation and treated with 2000 gallons of 15% MCA acid. A potential test was run on September 1, 1981, recovering 58 BOPD, 61 MCFPD, and 7 BWPD. Currently, the well is pumping approximately 10 BOPD. The Mississippian was perforated from 8074'-8096' (total shot=28'), and was acidized with 5500 gallons of MOD-101.

A bottom hole pressure survey was not run on the subject well. However, a pressure build-up test was run on two offsetting wells, the Collier "A" No. 1 on the Mississippian, and the Taylor No. 1 testing the Penn formation. From these, estimated reservoir pressures are:

Mississippian - 2826 psi  
Penn Formation - 2793 psi

Fluid Description - Oil recovered during the potential test on the subject well indicated a gravity of 44.3° API. The gravity of the oil recovered during swabbing of the Mississippian was not determined. However, Mississippian oil produced from the offset Collier "A" No. 1 has a gravity of 43.0° API.

The subject well was completed in July 1981, therefore, oil production from both zones is considered newly discovered and will receive a price of \$35.00/bbl.

The Collier No. 1 is currently producing 10 BOPD from the Penn formation.  
Therefore, production of over 10 BOPD will be allocated to the  
production from the Mississippian formation.

→ 45 BOPD

Enserch Exploration, Inc. is the operator of all offsetting production and  
has 100 percent Working Interest in the subject well.

The Mississippian and Pennsylvanian formations have a common royalty  
interest.

NEW MEXICO OIL CONSERVATION COMMISSION  
GAS-OIL RATIO TESTS

2-116  
Revised 1-1-75

Operator: Enserch Exploration, Inc. Pool: Undesignated (Penn) Group 4 County: Roosevelt

Address: P. O. Box 4815, Midland, Texas 79704-4815

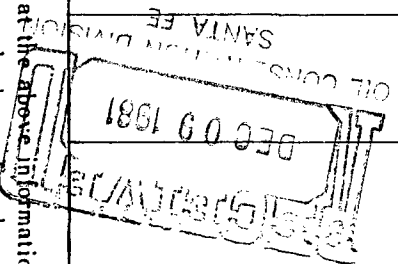
TYPE OF TEST - (X) TEST - (X) Scheduled ☐ Completion ☒ Special ☐

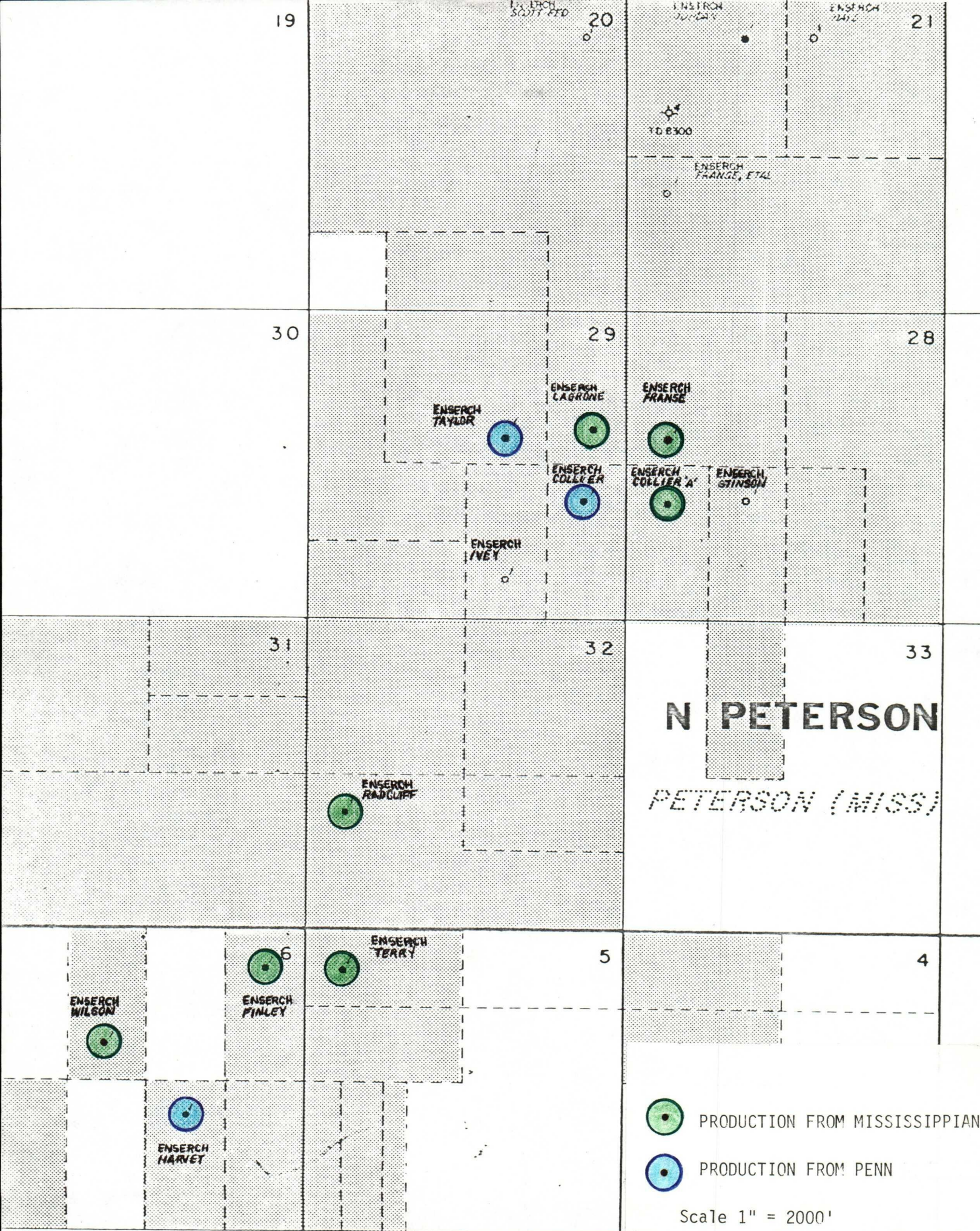
LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	STATUS	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST				GAS - OIL RATIO CU.FT. BBL.
		U	S	T	R							WATER BBLs.	GRAV. OIL	OIL BBLs.	GAS M.C.F.	
Collier	1	I	29	4S	33E	10-23-81	P	--	20	58	24	2	43.8	10	57	5700/1

No well will be assigned an allowable greater than the amount of oil produced on the official test.  
During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.  
Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.  
Report casing pressure in lieu of tubing pressure for any well producing through casing.  
Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

H. F. Burnett  
(Signature) H. F. Burnett  
Production Superintendent  
(Title)  
November 17, 1981  
(Date)





*mlfe*

OIL CONSERVATION DIVISION  
DISTRICT I



OIL CONSERVATION DIVISION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

DATE 12/9/81

RE: Proposed MC \_\_\_\_\_  
Proposed DHC X \_\_\_\_\_  
Proposed NSL \_\_\_\_\_  
Proposed NSP \_\_\_\_\_  
Proposed SWD \_\_\_\_\_  
Proposed WFX \_\_\_\_\_  
Proposed PMX \_\_\_\_\_

Gentlemen:

I have examined the application for the:

Enserch Exploration, Inc.	Collier	No. 1-I	29-4-33
Operator	Lease and Well No.	Unit, S - T - R	

and my recommendations are as follows:

O.K.----J.S.

Yours very truly,

A large, stylized handwritten signature in dark ink, written over a horizontal line.

/mc