

**ENSERCH  
EXPLORATION** INC.

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

Leonard Kersh  
District Production Manager  
West Texas District  
Production Division

December 17, 1981

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

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

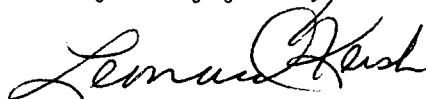
Gentlemen:

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

The subject well was TD'd July 3, 1981, and completed in the Mississippian from 8244'-8256'. The final results indicated a marginal oil producer since recovery after seven hours of swabbing was 16 bbls of oil. After setting a retrievable bridge plug, the zone was temporarily abandoned and the Pennsylvanian formation was tested from 8190'-8196'. The interval initially potentialized for 243 bopd; however, production has declined to a rate of approximately 40 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 the two zones is attached.

Very truly yours,

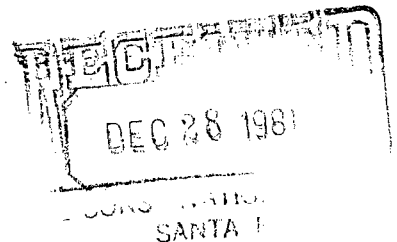


Leonard Kersh  
District Production Manager

LK/NAL/mh

Attachments

cc: Jerry Sexton - Hobbs District NMOCC



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

Lease - Annie Harvey

Well - No. 1

Location - Sec. 6, T5S, R33E  
1980' FSL, 1980' FEL  
Roosevelt County, New Mexico

Pools to be Commingled - Peterson (Mississippian) Pool  
Dora (Pennsylvanian) 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 in the Penn, the Mississippian formation was perforated  
and swabbed for seven hours; 16 bbls of oil were recovered, along  
with a good show of gas. This zone, however, was not potentialized.

The subject well was perforated from 8190'-8196' (total shots=7) through  
the Penn formation and treated with 2000 gallons of 15% MCA acid.  
(A potential test was run on July 22, 1981, recovering 243 BOPD,  
383 MCFPD, and 13 BWPD. Currently, the well is pumping approxi-  
mately 40 BOPD. The Mississippian was perforated from 8244'-8256'  
(total shots=10), and was acidized with 5000 gallons of 15% HCl  
NEFE.

Neither zone is capable of flowing. Both will have to be artificially  
lifted. Estimated bottom hole pressure for the Penn is approximately  
2500 psi, and for the Mississippian, 2030 psi.

Fluid Description - Oil recovered during the potential test on the Penn  
formation indicated a gravity of 46.9° API. The  
gravity of the oil recovered while swabbing the  
Mississippian was not determined. However, Mississippian  
oil produced from the offset Finley No. 1 has a  
gravity of 40.8° 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 Harvey No. 1 is currently producing 40 BOPD from the Penn formation. Therefore, production of over 40 BOPD will be allocated to the production from the Mississippian formation.

Enserch Exploration, Inc. is the operator of all offsetting production and has 100 percent Working Interest and 75 percent Net Revenue Interest in both the Mississippian and Pennsylvanian formations.

The Mississippian and Pennsylvanian formations have common royalty interest.

**NEW MEXICO OIL CONSERVATION COMMISSION  
GAS-OIL RATIO TESTS**

C-116  
Revised 1-1-65

Operator <b>Enserch Exploration, Inc.</b>		Pool <b>Dora-Pennsylvanian</b>		County <b>Roosevelt</b>											
Address <b>P.O. Box 4815, Midland, TX 79704-4815</b>		TYPE OF TEST - (X)		Completion <input checked="" type="checkbox"/> Special <input type="checkbox"/>											
LEASE NAME <b>Annie Harvey</b>	WELL NO. <b>1</b>	LOCATION			DATE OF TEST <b>12/15/81</b>	PRESS. STAT.	CHOKE SIZE <b>-</b>	TBG. PRESS. <b>25</b>	DAILY ALLOW-ABLE <b>230</b>	LENGTH OF TEST HOURS <b>24</b>	PROD. DURING TEST				GAS - OIL RATIO CU.FT./BBL. <b>1516/1</b>
		U	S	T							R	WATER BBL.S.	GRAV. OIL	OIL BBL.S.	

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.

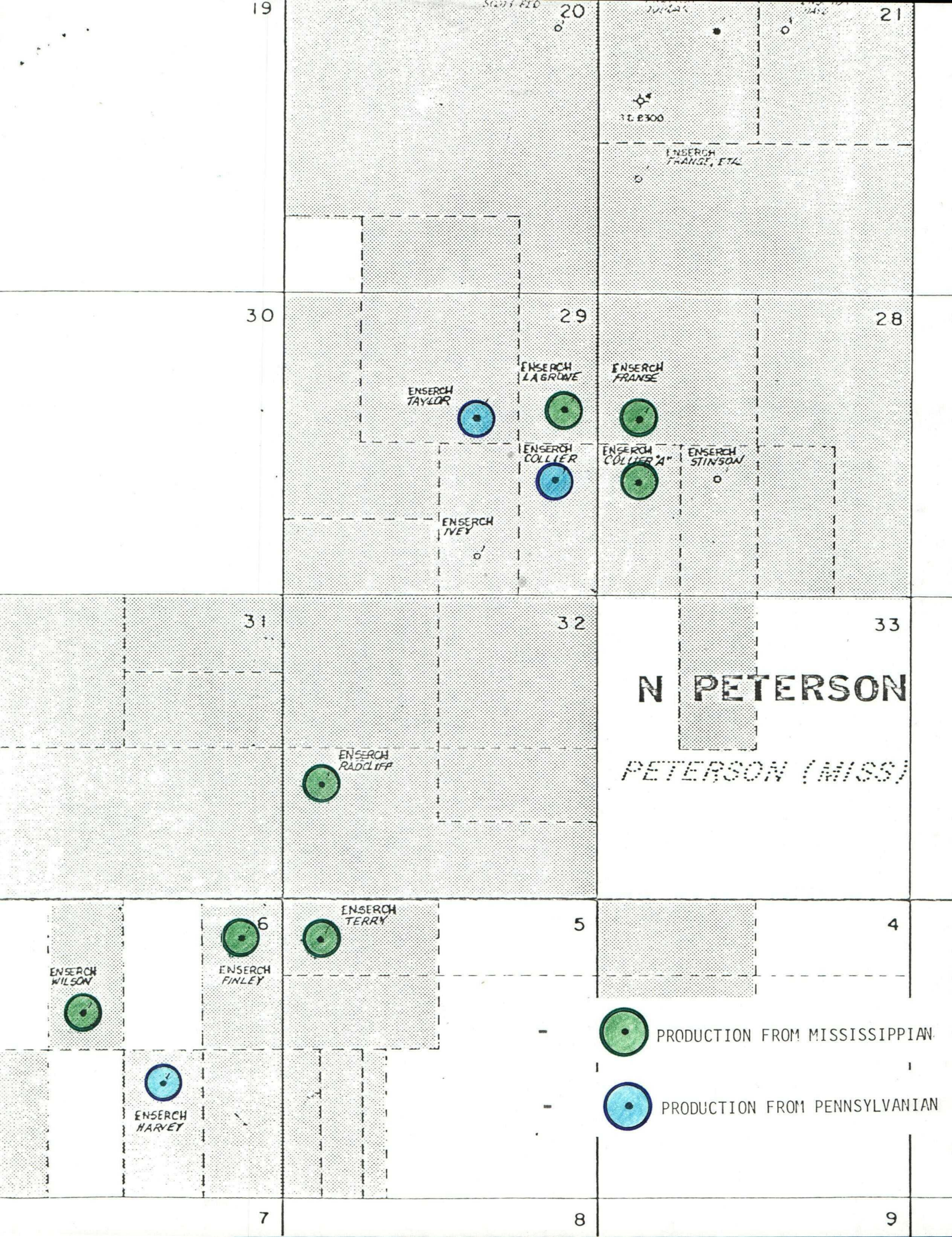
I hereby certify that the above information is true and complete to the best of my knowledge and belief.

  
(Signature)

District Production Manager

December 16, 1981

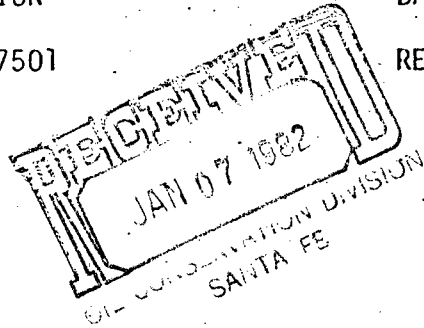
(Date)



OIL CONSERVATION DIVISION  
DISTRICT I

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

DATE December 31, 1981



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

Gentlemen:

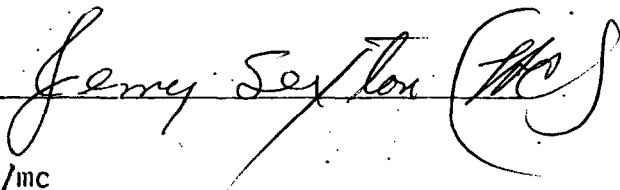
I have examined the application for the:

Enserch Exploration, Inc.      Annie Harvey      No. 1-J      6-5-33  
Operator      Lease and Well No.      Unit, S - T - R

and my recommendations are as follows:

O.K.-----J.S.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Yours very truly,

  
/mc