ENSERCH EXPLORATION

ClayDesta National Bank Bldg.
Suite 5250
6 Desta Drive
Midland, Texas 79705
915-682-9756

Leonard Kersh
District Production Manager
Dane Hendley
District Petroleum Engineer
Sammy Reed
Production Superintendent
West Texas District
Production Division

June 29, 1988

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

Re: Application for Down-Hole Commingling
Enserch Exploration, Inc.
Pearl Jordan No. 3
North Peterson Field
Roosevelt County, New Mexico

Gentlemen:

Enserch Exploration, Inc. requests authority for down-hole commingling of production from the Pennsylvanian and Mississippian formations in the above referenced well located in Roosevelt County, New Mexico.

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

Yours truly,

Wm. Dane Hendley

WDH:jd

Attachment

1. Operator: Enserch Exploration, Inc.
ClayDesta National Bank Bldg.,
Suite 5250
6 Desta Drive
Midland, Texas 79705

2. Lease Name: Pearl Jordan
Well Number: 3
Well Location: Section 17, T-4-S, R-33-E
660' FSL, 660' FEL
Roosevelt County, New Mexico

Pools to be Commingled: North Peterson (Penn) Pool
Undesignated (Miss) Pool

3. A lease plat showing the acreage dedicated to the well and ownership of offsetting leases has been attached. Accordingly, Enserch Exploration, Inc. operates all surrounding leases having a 45% working interest in the acreage allocated to the subject well.

The Pennsylvanian and Mississippian formations have a common royalty interest within the acreage allocated to the subject well.

4. Attached is a production observation report showing the volumes of oil, gas, and water produced from the Penn formation during a 24 hour test.

Prior to completing the Penn, the Mississippian was perforated and swabbed for three days with a total recovery of 42 STB of oil and 192 bbl. of water. This zone was not potentialed.

5. The subject well was perforated in an interval of the Mississippian formation from 8160' to 8180' (Total: 37 holes) and acidized with 4000 gallons of 15% NEFE HCL acid. A three day swab test yielded 18 STB of oil and 70 bbls. of water. The Mississippian was re-acidized with 8000 gallons of MOD-202 acid with 500 SCF of nitrogen per barrel. Another three day swab test yielded 42 STB of oil and 192 bbls. of water. The well was temporarily abandoned and recompleted to the Penn (Cisco) interval. The perforations within this interval exist between 7830' and 7852' (Total: 46 holes). The Penn (Cisco) was acidized with 5000 gallons of NEFE HCL acid. A potential test was run on June 16, 1981 recovering 120 STB of oil, 170 MCF of gas, and 10 bbls. of water in a 24 hour test period. During August, 1987 the well was reworked by adding the Penn (Detrital) interval with perforations from 8016' to 8056' (Total: 46 holes).

This interval was acidized with 2300 gallons of 15% NEFE HCL acid. A potential test was run on August 18, 1987 including production from both zones completed in the Pennsylvanian formation. In a 24 hour test period the well produced 51 STB of oil, 91 MCF of gas, and 39 bbls. of water on pump. Currently, the well is producing approximately 14 BOPD, 14 MCFGPD and 7 BWPD on pump.

A decline curve showing the production history of the Pennsylvanian completion has been attached.

6. A bottomhole pressure survey was not run on the subject well. However, a pressure buildup test was run on two offsetting Penn wells (i.e. Amoco State No. 2: 2633 psi; and, Pearl Jordan No. 2: 2350 psi). The bottomhole pressure from the Mississippian has been estimated to be 2752 psi based on the drill stem test results from the Collier "A" No. 1, which is located approximately 2 miles south of the subject well.

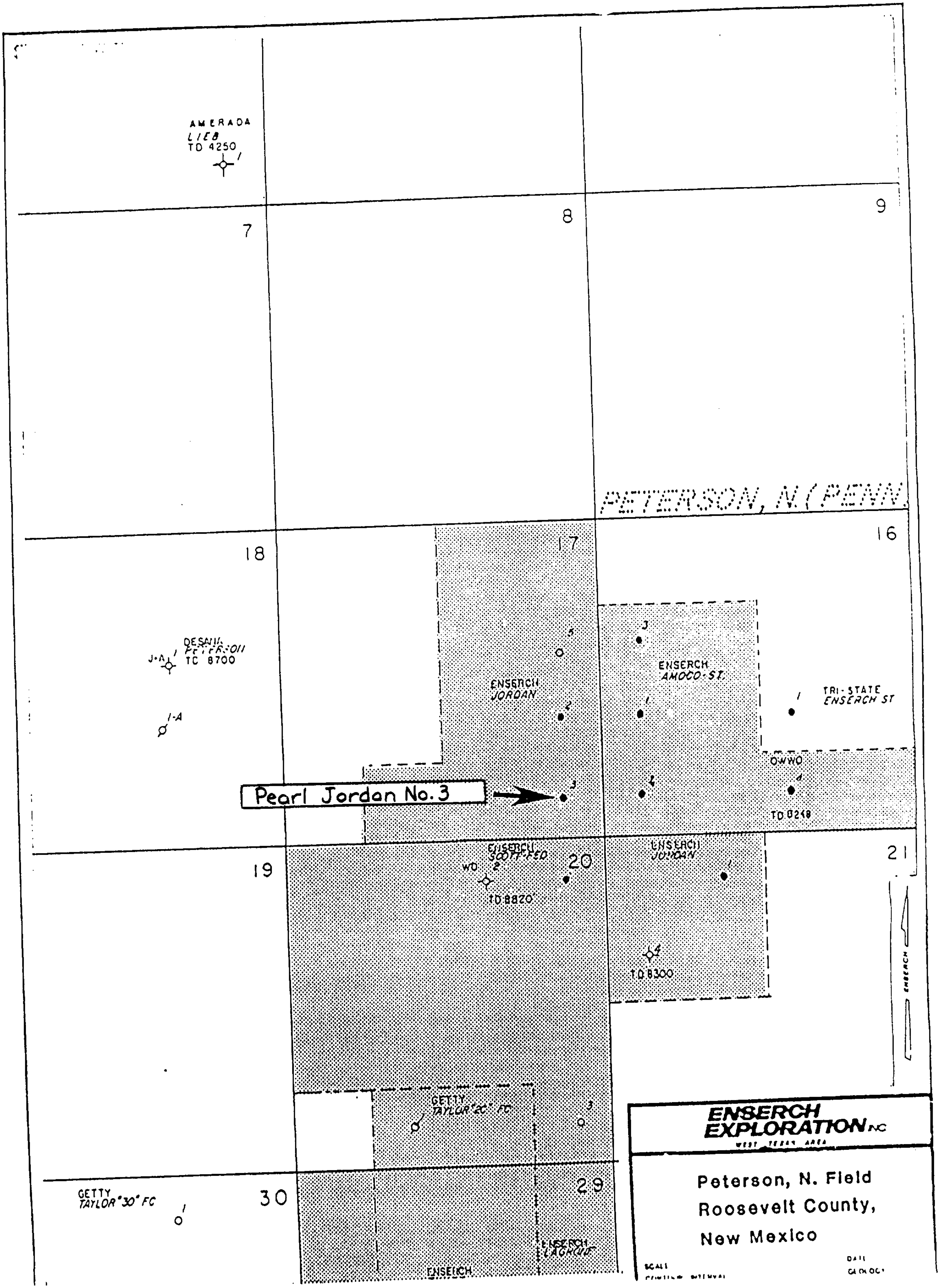
7. The fluid characteristics of oil samples taken from the Pennsylvanian indicated an oil gravity of 45.3° API. The gravity of the oil recovered while swabbing the Mississippian completion was not determined; however, Mississippian oil recovered from the Collier "A" No. 1 has a gravity of 43.0° API.

8. Estimated production from the Penn formation: 14 BOPD
   Estimated production from the Miss formation: 14 BOPD
   Sum of Individual Flow Streams: 28 BOPD

   According to Order No. R-6882 (Dated February 1, 1982), commingled production from zones, with the lowermost pool existing between 8,000' and 8,999', may not exceed 60 BOPD.

9. The Pearl Jorden No. 3 is currently producing 14 BOPD from the Penn formation. Any production over 14 BOPD will be allocated to the production from the Mississippian formation.

10. Enserch Exploration, Inc. is operator of all offsetting production, and operates the subject well with a 45% working interest.


AMERADA
LIEB
TD 4250
7
8
9
PETERSON, N. (PENN.
18
17
16
ENSERCH
JORDAN
ENSERCH
AMOCO-ST.
TRI-STATE
ENSERCH ST
TC 8700
OWWO
TD 8248
Pearl Jordan No. 3
19
20
21
ENSERCH
SCOTT FED
WO
TD 8820
ENSERCH
JORDAN
TD 8300
ENSERCH
GETTY
TAYLOR "20" FC
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GETTY
TAYLOR "30" FC
ENSERCH
LAGRONE
ENSERCH
ENSERCH
EXPLORATION INC
WEST TEXAS AREA
Peterson, N. Field
Roosevelt County,
New Mexico

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OPERATOR'S MONTHLY REPORT

Form C-115 Revised 10-1-78
OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Operator EP OPERATING COMPANY (address) 1817 Wood Street 460EC Dallas, Texas 75201 (zip) For (month, year) May, 1988

POOL NAME (Underline) *Lease Name / WELL NO UNIT SEC TWP RNG	WELL STATUS	INJECTION VOLUME	INJECTION PRESS.	TOTAL LIQUIDS PRODUCED MONTHLY OIL ALLOWABLE	TOTAL LIQUIDS PRODUCED ACTUAL BARRELS PRODUCED	TOTAL LIQUIDS PRODUCED BARRELS OF WATER PRODUCED	GAS PRODUCED (MCF)	DAYS PROD.	DISPOSITION OF GAS SOLD	DISPOSITION OF GAS TRANSPORTER	DISPOSITION OF GAS OTHER	DISPOSITION OF GAS CODE	DISPOSITION OF OIL OIL ON HAND AT BEG. OF MONTH	DISPOSITION OF OIL BARRELS TO TRANSPORTER	DISPOSITION OF OIL TRANSPORTER	DISPOSITION OF OIL OTHER	DISPOSITION OF OIL CODE	DISPOSITION OF OIL OIL ON HAND AT END OF MONTH
LEASE NAME - Include State Land Lease Number or Federal Lease Number																		
PETERSON																		
PENNSYLVANIA,NORTH																		
Amoco State																		
1 16 4S 33E				TA	0	0	0	0	0	TWP	0				PP			
2M 16 4S 33E	P			341	243	61	248	31	153	TWP	95	U			PP			
3E 16 4S 33E	P			124	94	60	170	31	75	TWP	95	U			PP			
Lease Total				465	337	121	418		228		190		154	359				132
Amoco State																		
40 16 4S 33E	P			124	73	207	120	31	0	NC	120	U	64	0	PP			137
Pearl Jordan																		
1C 21 4S 33E				TA	0	0	0	0	0	TWP	0				PP			
2I 17 4S 33E	F			2,046	649	64	580	31	485	TWP	95	U			PP			
3P 17 4S 33E	F			837	433	203	510	31	415	TWP	95	U			PP			
Lease Total				2,883	1,082	267	1,090		900		190		343	1,223				202

INSERCH (U.S.), INC., MANAGING GENERAL PARTNER

DISTRIBUTION
ORIGINAL TO OCC SANTA FE
ONE COPY TO OCC DIST. OFFICE
ONE COPY TO TRANSPORTER(S)

Form C-115
Revised 10-1-78

STATUS CODE
F.....FLOWING
P.....PUMPING
G.....GAS LIFT
S.....SHUT IN
T.....TEMP ABANDONED
I.....INJECTION
D.....DISCONTINUED

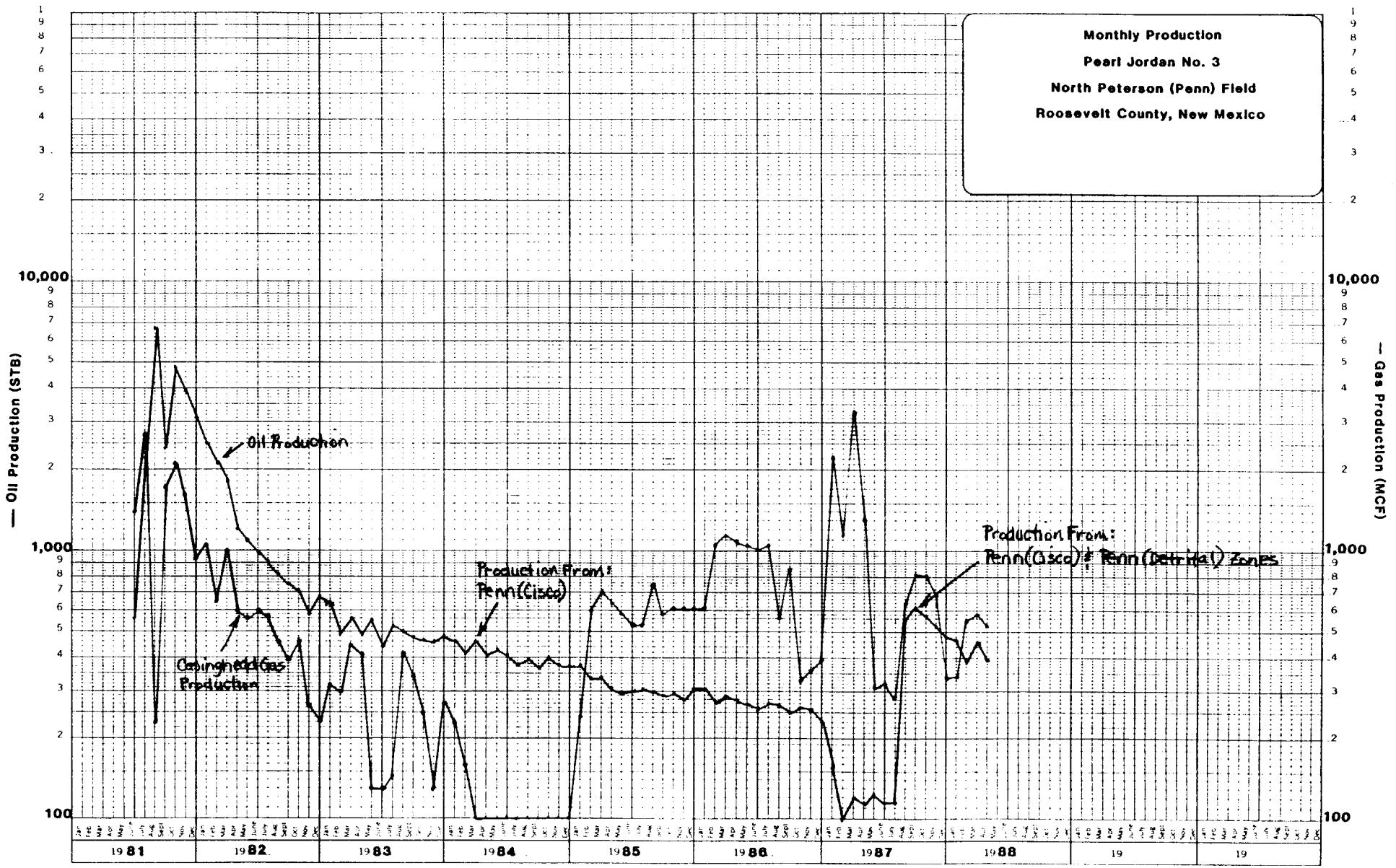
"OTHER" GAS DISPOSITION CODE
X.....USED OFF LEASE (Specify)
D.....USED FOR DRILLING (Specify)
G.....GAS LIFT
L.....LOST (MCF ESTIMATED)
E.....EXPLANATION ATTACHED
R.....REPRESSURING OR PRESSURE MAINTENANCE

"OTHER" OIL DISPOSITION CODE
C.....CIRCULATING OIL
L.....LOST
S.....SEDIMENTATION (BS&W)
E.....EXPLANATION ATTACHED

I HEREBY CERTIFY THAT THE INFORMATION GIVEN IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE

C.J. HAGEN 214-670-2820 06/21/88
(Name) (Telephone Number)

Manager Production Records
(Title)


Monthly Production
Pearl Jordan No. 3
North Peterson (Penn) Field
Roosevelt County, New Mexico
— Oil Production (STB)
— Gas Production (MCF)
10,000
1,000
100
Oil Production
Casinghead Gas Production
Production From: Penn (Cisco)
Production From: Penn (Cisco) & Penn (Detrital) Zones
1981
1982
1983
1984
1985
1986
1987
1988
19
19