

Midland Division
Exploration Production

Conoco Inc. 10 Desta Drive, Suite 100W Midland, TX 79705-4500 (915) 686-5400

October 8, 1993

State of New Mexico
Energy & Minerals Department
Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87504-2088

Application to Downhole Commingle the Mesaverde and Pictured Cliffs Gas Producing Zones in the AXI Apache N No. 12, 1190' FNL & 1850' FWL, Unit C Sec. 11, T-25N, R-4W, Rio Arriba County, New Mexico

Gentlemen:

It is proposed to downhole commingle the Mesaverde and Pictured Cliffs gas zones in this well to maintain economic operation and to maximize the efficient and effective recovery of gas at this location. Economic evaluation of the continued operation of this well as a dual completion has shown that it can only be economically maintained if it can be downhole commingled and operated as a single completion.

The Mesaverde and Pictured Cliffs producing rates have declined to marginal levels of 43 MCFGPD and 70 MCFGPD respectively. Elimination of excess operational equipment and operating expense associated with dual operation would contribute to the maximization of the producing lives and recoveries from each pool. Downhole commingling would permit the elimination of one tubing string, one separator and one tank now required for the operation of this dual completion and would eliminate maintenance costs of maintaining isolation of the two completions.

The following attachments are submitted in support of this application:

- 1. EXHIBIT A is a plat (a) showing all Pictured Cliffs wells on the lease, (b) identifying the subject well, and (c) outlining the current Pictured Cliffs proration unit.
- 2. EXHIBIT B is a plat (a) showing all Mesaverde wells on the lease, (b) identifying the subject well, and (c) outlining the current Mesaverde proration unit.
- 3. EXHIBIT C is a GOR test form (C-116) with the most recent tests for each completion.
- 4. EXHIBIT D and E are current decline curves for Pictured Cliffs and Mesaverde.
- 5. EXHIBIT F is a plot of shut-in tubing pressures for both zones.
- 6. WI, RI, and ORRI ownerships are identical for both formations.
- 7. EXHIBITS G & H are Pictured Cliffs and Mesavorde gas analyses.

8. Allocation percentages based on the C-116 tests included in this application are suggested as follows:

	Oil	Gas	Water
Blanco Pictured Cliffs, South	0%	62%	0%
Blanco Mesaverde	100%	38%	100%

9. Copies of this application were sent by certified mail to each offset operator and to the Jicarilla Agency, who holds the minerals interest, as identified on EXHIBIT I.

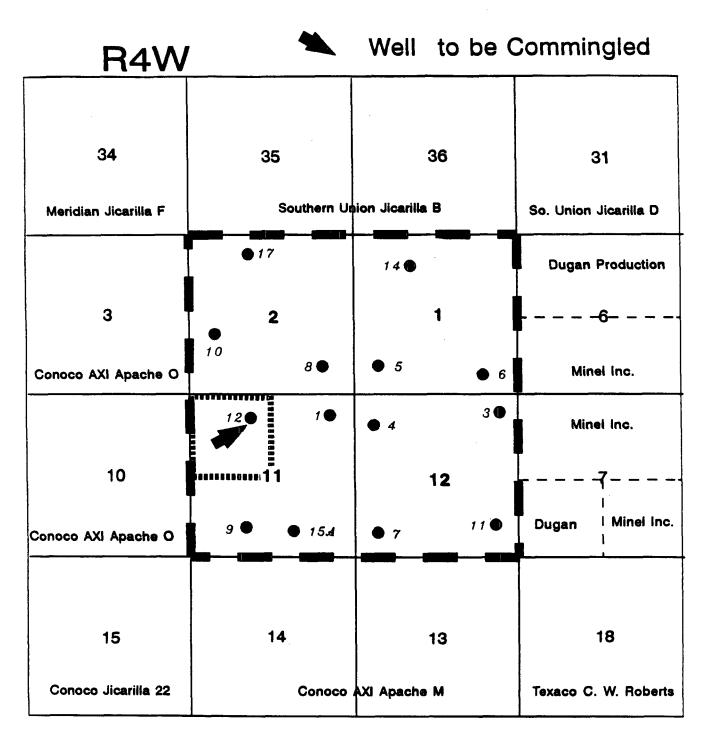
Very truly yours,

Jerry W. Hoover

Sr. Conservation Coordinator

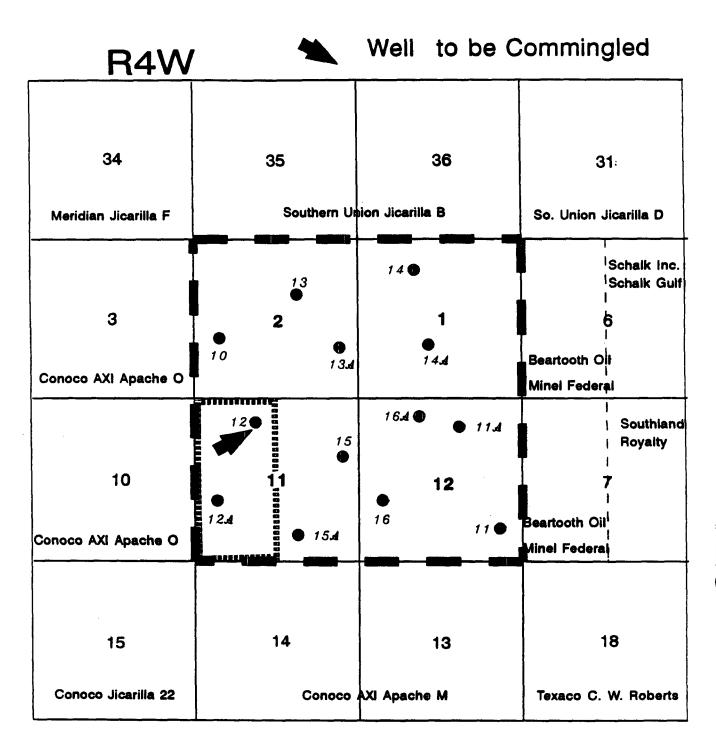
T25N

AXI Apache N Lease Pictured Cliffs Wells



T25N

AXI Apache N Lease Mesaverde Wells



Revised 1/1/89 Form C-116

Energy, Minerals and Natural Resources Department State of New Mexico

OIL CONSERVATION DIVISION

Santa Fe, New Mexico 87504-2088 P.O. Box 2088

1000 Rio Brazos Rd., Aztec, NM 87410

P.O. Drawer DD, Artesia, NM 88210

DISTRICT II

DISTRICT III

P.O. Box 1980, Hobbs, NM 88240

Submit 2 copies to Appropriate

District Office.

DISTRICT

CAS. OH RATIO TEST

ive, Suite 100W, Midland, TX 79705 TEST-00 Structed Cliffs South	Chambre							Pod Blanco Mesa	Bla	Blanco Mesaverde	saver	de		2	County			
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ictions:

A turing gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit altowable for the pool in a vertile located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in that well can be assigned increased allowables when authorized by the Division.

It is volumes must be reported in MCP measured at a pressure base of 15,025 pain and a temperature of 60° F.

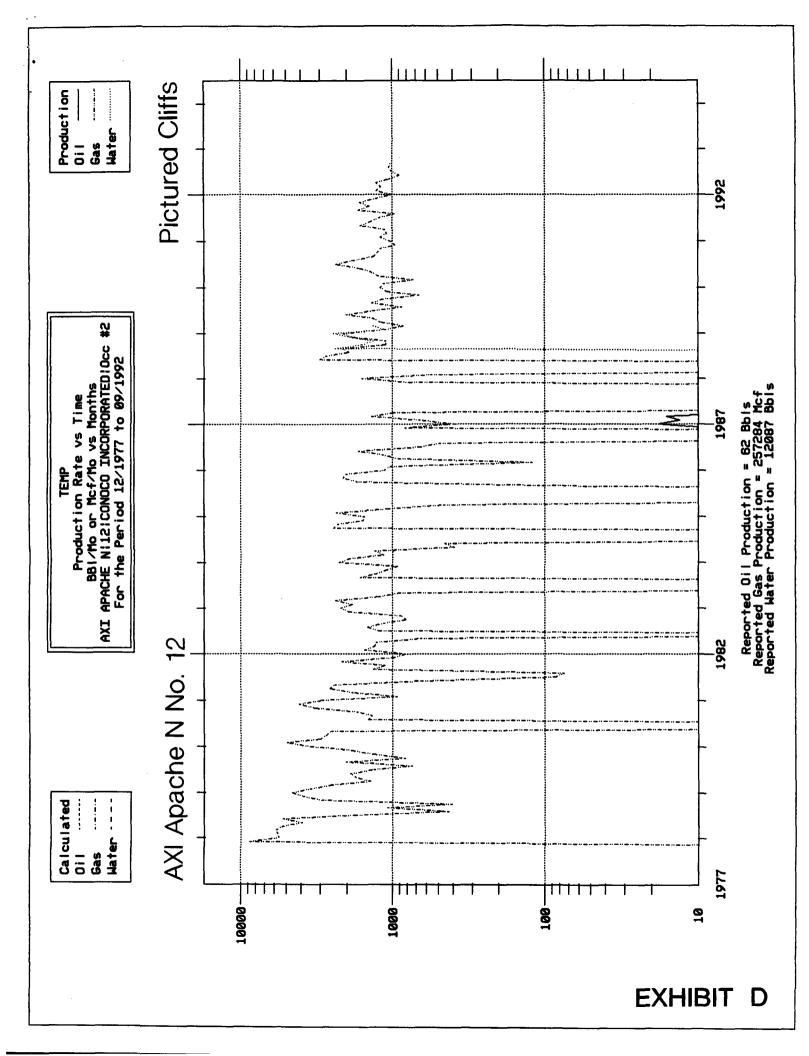
In gravity base will be 0.60.

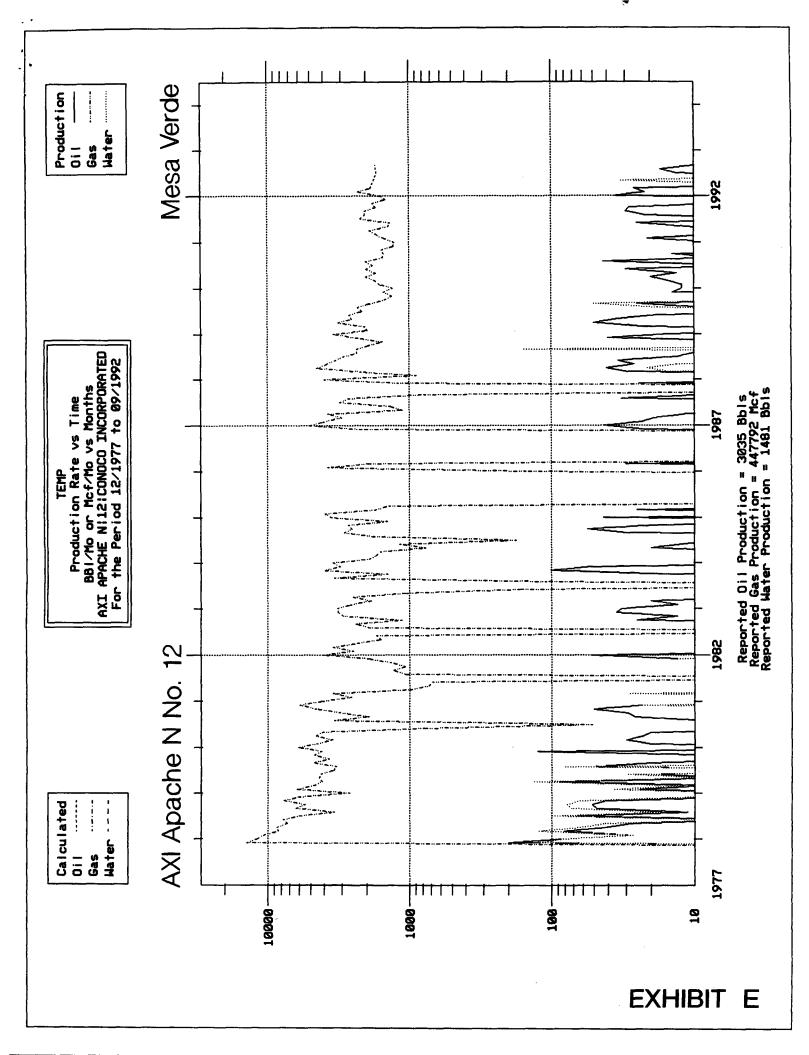
teport casing pressure in lieu of tubing pressure for any well producing through casing.

O; Rule 301, Rule 1116 & appropriate pool rules.)

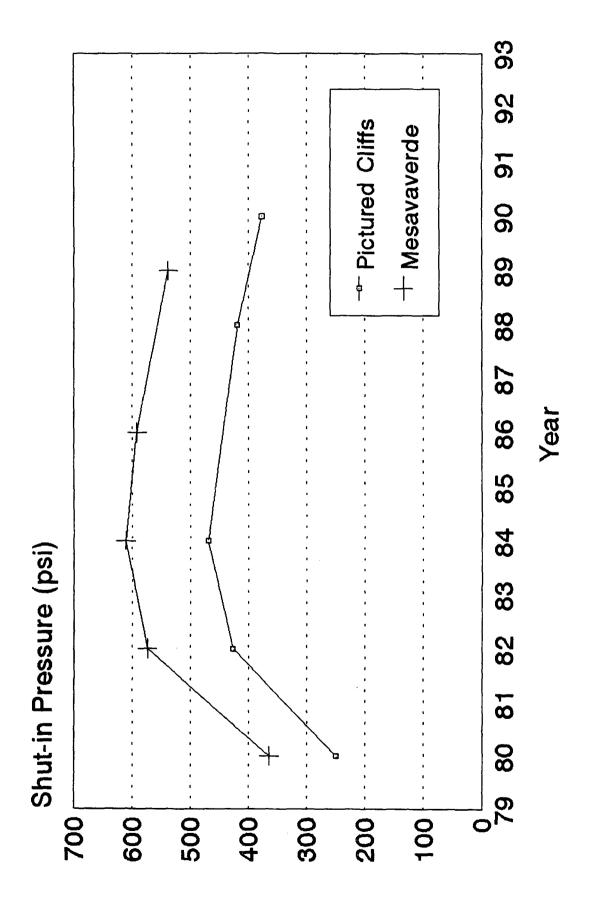
Telephone No. (915) 686-6548 Conservation Coordinator Jerry W. Hover Oct. 7, 1993 Sit. Conserva 0

complete to the best of my knowledge and belief.





AXI Apache N #12 Shut-in Pressures



PICTURED CLIFFS

GAS COMPANY OF NEW MEXICO REPORT OF BTU TEST RESULTS

TO: CONOCO, INC.

REF: AXI APACHE N 4

2807

NORTHWEST NEW MEXICO

DATE OF THIS TEST: 11/26/92 DATE OF LAST TEST: 4/22/92

TEST FREQUENCY: NOT SPECIFIED

RESULTS: SPECIFIC GRAVITY: 0.6883 BTU/CF @ 14.73/60F/DRY: 1204.6

> MOL % G. P. M. CARBON DIOXIDE 0.0000 0.190 NITROCEN 0.820 0.0000 METHANE 85. 960 0.0000 ETHANE 6. 620 1.7650 0.8920 PROPANE 3. 240 ISOBUTANE 0.600 0.1950 0.710 0. 2230 N-BUTANE 0.0980 0.270 ISOPENTANE 0. 200 N-PENTANE 0.0730 HEXANE + 1. 400 0. 5700 TOTAL 100.010 3.8160

MESAVERDE

GAS COMPANY OF NEW MEXICO REPORT OF BTU TEST RESULTS

TO:

CONOCO, INC.

REF:

AXI APACHE N

3256

NORTHWEST NEW MEXICO

DATE OF THIS TEST:

11/26/92 5/25/92

DATE OF LAST TEST: TEST FREQUENCY:

NOT SPECIFIED

RESULTS:

SPECIFIC GRAVITY:

0. 7518

5. 7810

BTU/CF @ 14.73/60F/DRY:

1296.6

MOL % G. P. M. CARBON DIOXIDE 0. 510 0.0000 NITROCEN 0. 780 0.0000 METHANE 78.760 0.0000 ETHANE 10.890 2. 9060 PROPANE 4. 560 1. 2530 ISOBUTANE 0.780 0. 2540 N-BUTANE 1.090 0.3410 ISOPENTANE 0. 390 0. 1240 N-PENTANE 0.270 0.0980 HEXANE + 1.970 0.8050 TOTAL 100.000

AXI APACHE "N" LEASE

OFFSET OPERATORS & MINERALS OWNER

Beartooth Oil & Gas P.O. Box 2585 Billings, MT 59103

Dugan Production P.O. Box 420 Farmington, NM 87499

Meridian Oil Inc. P.O. Box 4289 Farmington, NM 87499-4289

Minel Incorporated 309 Washington S.E. Albuquerque, NM 87108 Southern Union Exploration Co. 324 Highway U.S. 64 Farmington, NM 87401

Southland Royalty Company c/o Meridian Oil Inc. P.O. Box 4289 Farmington, NM 87499-4289

Texaco Inc. Western E&P Region P.O. Box 2100

Jicarilla Agency P.O. Box 167 Dulce, NM 87528

STATE OF NEW MEXICO

ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

AM 9 08 OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178

Date: 10-19-93 att n: Den Stone
Oil Conservation Division P.O. Box 2088 Santa Fe, NM 87504-2088
RE: Proposed MC Proposed DHC Proposed SWD Proposed WFX Proposed PMX Proposed NSP Proposed DD
Gentlemen:
I have examined the application received on 10-11-93
for the CONICO AXI APACHE N'#12 OPERATOR LEASE & WELL NO.
$\frac{C-11-25N-04W}{UL-S-T-R}$ and my recommendations are as follows
APPROVE
Yours truly,