



RELEASE 11.3.93 DHC

Midland Division  
Exploration Production

OIL CONSERVATION  
RECEIVED  
Conoco Inc. DIVISION  
10 Deste Drive, Suite 100W  
Midland, TX 79705-4500  
(915) 686-5400  
93 OCT 15 AM 9 24

October 12, 1993

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

Application to Downhole Commingle Fruitland Sand  
and Pictured Cliffs Gas Producing Zones in the  
State Com No. 39, 990' FNL & 1850' FWL, Unit C  
Sec. 36, T-29N, R-8W, San Juan County, New Mexico

*Verbal OK  
2. Bush  
11-5-93  
DHC*

Gentlemen:

It is proposed to downhole commingle Fruitland Sand 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 Fruitland Sand and Pictured Cliffs producing rates have declined to marginal levels of 25 MCFGPD and 35 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:

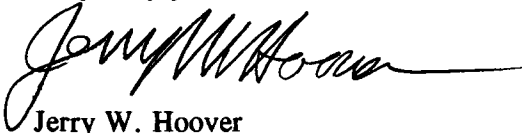
1. EXHIBIT A is a plat (a) showing all Jasis Canyon Fruitland Sand wells on this lease and in the surrounding area, (b) identifying the subject well, and (c) outlining the current Fruitland Sand proration unit.
2. EXHIBIT B is a plat (a) showing all Blanco Pictured Cliffs wells on the lease and in the surrounding area, (b) identifying the subject well, and (c) outlining the current Pictured Cliffs proration unit.
3. EXHIBIT C shows the most recent C-116 tests (GOR tests) for each completion.
4. EXHIBIT D and E are current decline curves for the Fruitland Sand and Pictured Cliffs production.

5. A recent packer Leakage test recorded 5-day shut in pressures of 250 psig for the upper Fruitland completion and 395 for the lower Pictured Cliffs completion.
6. WI, RI, and ORRI ownerships are identical for both formations.
7. EXHIBITS F & G are Fruitland Sand and Pictured Cliffs gas analyses.
8. Allocation percentages based on the C-116 tests included in this application are suggested as follows:

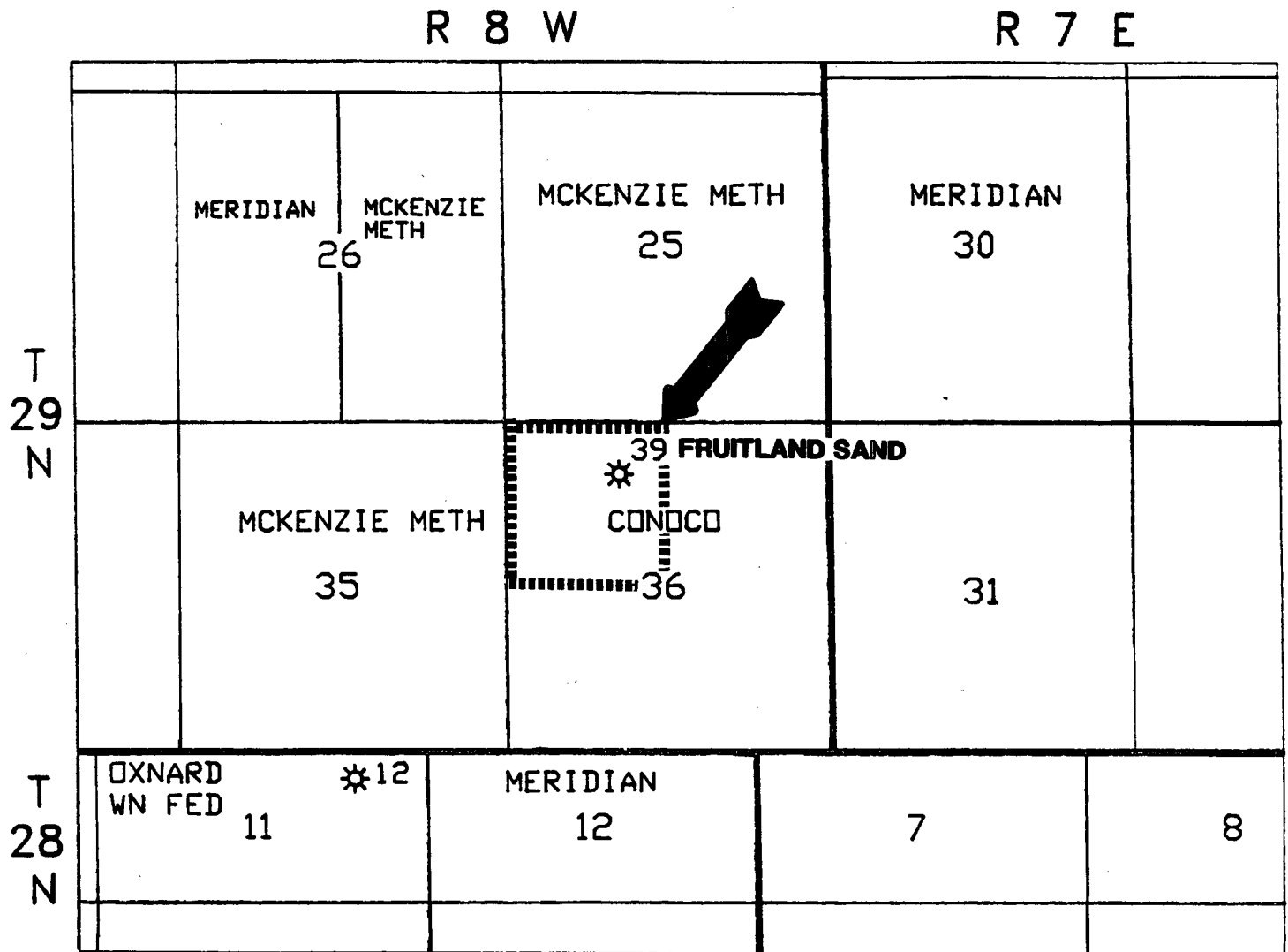
	Oil	Gas	Water
Jasis Canyon Fruitland Sand	0%	42%	0%
Blanco Pictured Cliffs	0%	58%	0%

9. Copies of this application were sent by certified mail to each offset operator and to the State Land Office of New Mexico, as identified on EXHIBIT H.

Very truly yours,

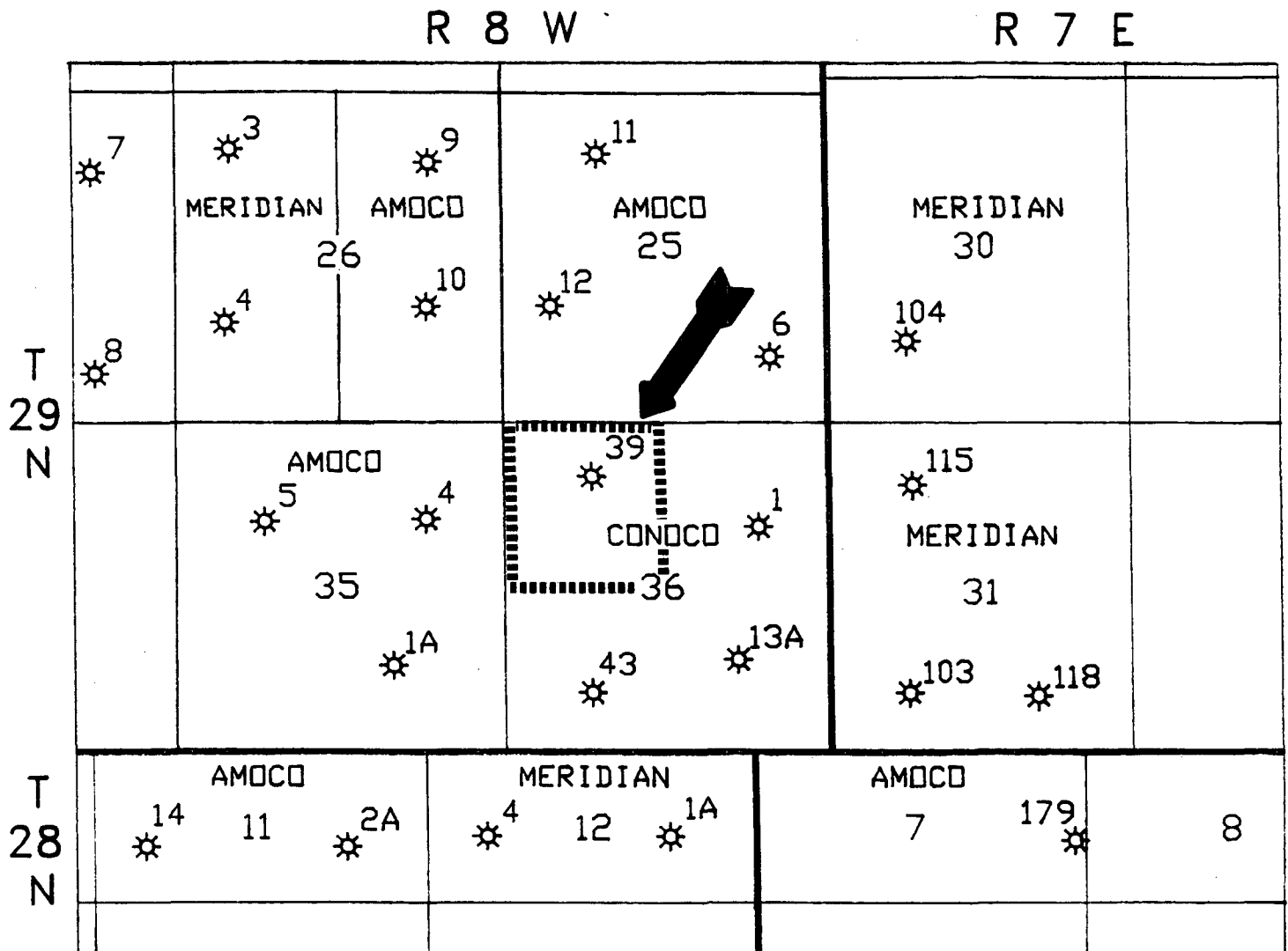


Jerry W. Hoover  
Sr. Conservation Coordinator



CONOCO INC.	
FRUITLAND SAND WELLS	
NAME: State Com Lease	
DATE: 8-25-93	NUMBER: BA1185

EXHIBIT A



CONOCO INC.	
PICTURED CLIFF WELLS	
NAME: State Com Lease	
DATE: 8-25-93	NUMBER: BA1186

EXHIBIT B

Submit 2 copies to Appropriate  
District Office.  
DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240  
DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210  
DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-116  
Revised 1/1/89

## OIL CONSERVATION DIVISION

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

### GAS - OIL RATIO TEST

Operator Conoco Inc.	Pool Blanco Pictured Cliffs	County San Juan											
Address 10 Desta Drive, Ste 100W, Midland, TX 79705		Completion <input type="checkbox"/> Special <input type="checkbox"/>											
LEASE NAME	WELL NO.	LOCATION U S T R	DATE OF TEST	S E L	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW- ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU/F7/BSL	
									WATER BSLS.	GRAV. OIL	OIL BSLS.		
State Com (Fruitland)	39	C 36 29N 8W	6/93	F	--	--		24	0	--	0	25	--
State Com (Pictured Cliffs)	39	C 36 29N 8W	6/93	F	--	--		24	0	--	0	35	--

#### Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which the well is 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.  
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.

Rule 301, Rule 1116 & appropriate pool rules.)

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

Signature

Jerry W. Hoover Sr. Conservation Coordinator

Printed name and title

10/11/93 (915) 686-6548

Date

Telephone No.

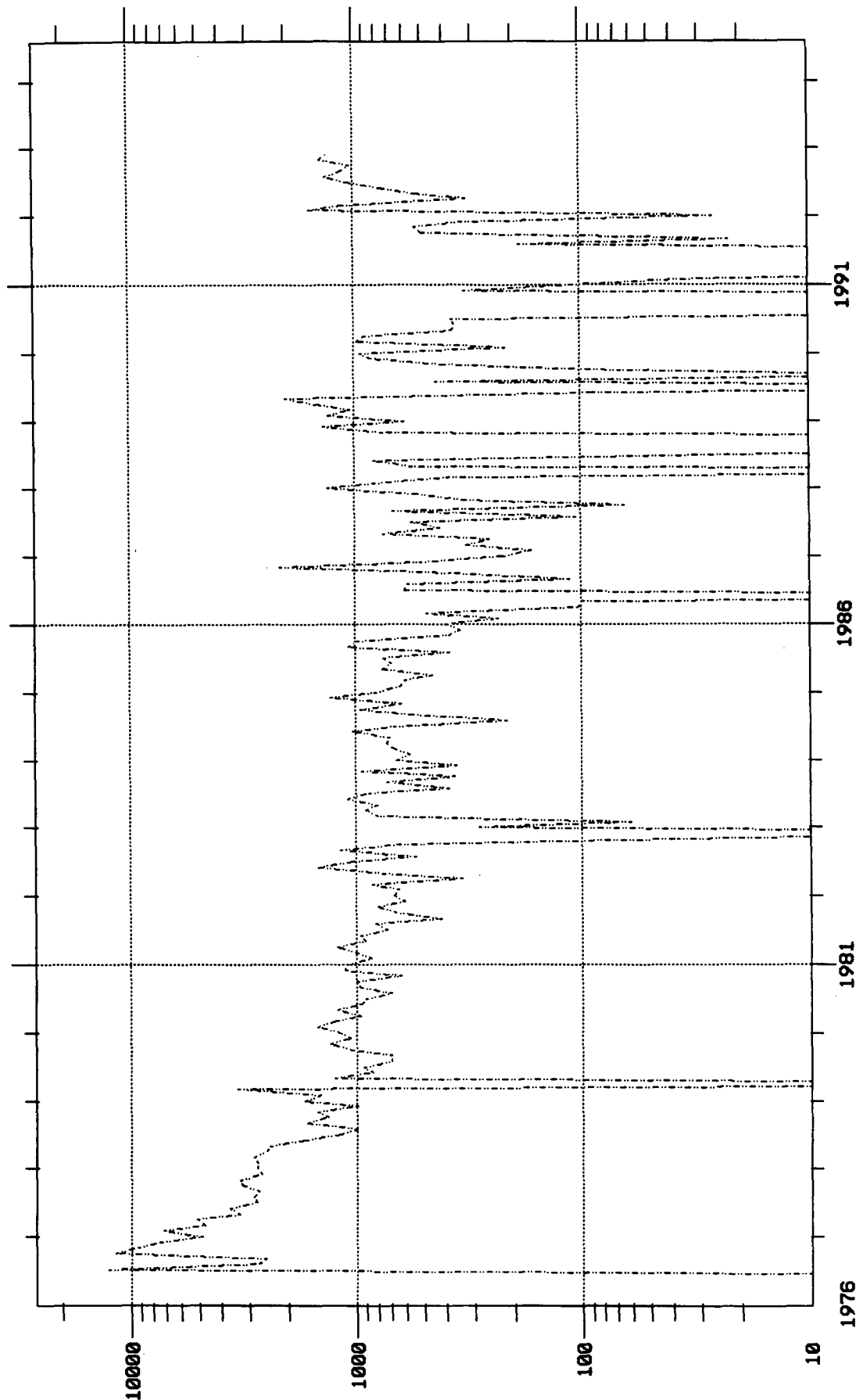
EXHIBIT C

Calculated  
Oil .....  
Gas .....  
Water - - - -

FRUITLAND SAND  
Production Rate vs Time  
BB1/Mo or Mcf/Mo vs Months  
STATE COM:39:CONOCO INCORPORATED  
For the Period 07/1976 to 12/1992

Production  
Oil .....  
Gas .....  
Water - - - -

# State Com #39 - Fruitland Sand



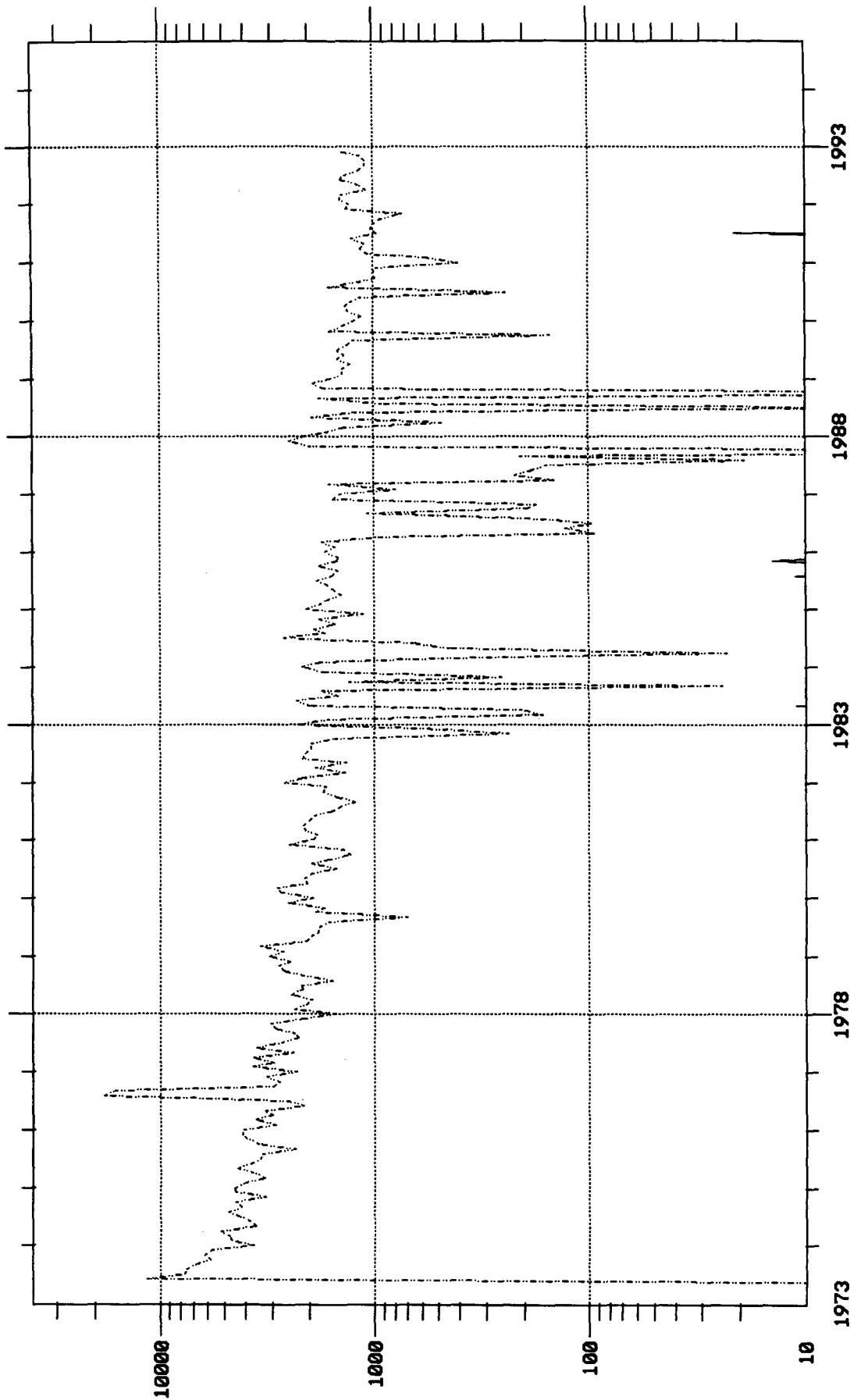
Reported Oil Production = 6 Bbls  
Reported Gas Production = 227110 Mcf  
Reported Water Production = 123 Bbls

Calculated  
Oil  
Gas  
Water

PICTURED CLIFF  
Production Rate vs Time  
Bbl/Mo or Mcf/Mo vs Months  
STATE COM:39:CONOCO INCORPORATED:10cc #2  
For the Period 06/1973 to 12/1992

Production  
Oil  
Gas  
Water

## State Com #39 - Pictured Cliffs



Reported Oil Production = 71 Bbls  
Reported Gas Production = 502553 Mcf  
Reported Water Production = 154 Bbls

EL PASO NATURAL GAS COMPANY  
VOLUME ACCOUNTING DEPARTMENT  
MEASUREMENT DIVISION  
POST OFFICE BOX 1492  
EL PASO, TEXAS 79978  
PHONE: (915) 541-5267  
CHROMATOGRAPHIC GAS ANALYSIS REPORT

DATE 4/08/92

CONOCO, INC.  
ATTN: GAS MEASUREMENT  
7415 EAST MAIN  
FARMINGTON, NEW MEXICO 87402

## Jasis Canyon Fruitland Sand

METER NUMBER 89450 - STATE COM #39 FT  
OPERATOR 0286 - CONOCO - MESA OPERATING LTD

ANALYSIS DATE	99/99/99	TYPE CODE	2 - ACTUAL
SAMPLE DATE	3/06/92	H2S GRAINS	0
EFFECTIVE DATE	4/01/92	LOCATION	F - FARMINGTON
EFFECTIVE FOR	6 MONTHS		

COMPONENTS	NORMALIZED MOL %	GPM
CO2	.35	.000
H2S	.00	.000
N2	.74	.000
METHANE	89.94	.000
ETHANE	5.05	1.351
PROPANE	2.38	.656
ISO-BUTANE	.46	.150
NORM-BUTANE	.53	.167
ISO-PENTANE	.18	.066
NORM-PENTANE	.11	.040
HEXANE PLUS	<u>.26</u>	<u>.113</u>
	100.00	2.543

SPECIFIC GRAVITY .636  
MIXTURE HEATING VALUE  
(BTU @ 14.73 DRY) 1120  
RATIO OF SPECIFIC HEATS .000  
NO TEST SECURED FOR H2S CONTENT

EXHIBIT F



EL PASO NATURAL GAS COMPANY  
VOLUME ACCOUNTING DEPARTMENT  
MEASUREMENT DIVISION  
POST OFFICE BOX 1492  
EL PASO, TEXAS 79978  
PHONE: (915) 541-5267  
CHROMATOGRAPHIC GAS ANALYSIS REPORT

DATE 4/08/92

CONOCO, INC.  
ATTN: GAS MEASUREMENT  
7415 EAST MAIN  
FARMINGTON, NEW MEXICO 87402

## Blanco Pictured Cliffs

METER NUMBER 87658 - STATE COM #39  
OPERATOR 0286 - CONOCO - MESA OPERATING LTD

ANALYSIS DATE	99/99/99	TYPE CODE	2 - ACTUAL
SAMPLE DATE	3/06/92	H2S GRAINS	0
EFFECTIVE DATE	4/01/92	LOCATION	F - FARMINGTON
EFFECTIVE FOR	6 MONTHS		

COMPONENTS	NORMALIZED MOL %	GPM
CO2	.29	.000
H2S	.00	.000
N2	1.34	.000
METHANE	84.30	.000
ETHANE	6.34	1.696
PROPANE	4.65	1.282
ISO-BUTANE	1.02	.334
NORM-BUTANE	1.11	.350
ISO-PENTANE	.35	.128
NORM-PENTANE	.23	.083
HEXANE PLUS	<u>.37</u>	<u>.161</u>
	100.00	4.034

SPECIFIC GRAVITY .692  
MIXTURE HEATING VALUE  
(BTU @ 14.73 DRY) 1199  
RATIO OF SPECIFIC HEATS .000  
NO TEST SECURED FOR H2S CONTENT

EXHIBIT G

**STATE COM NO. 39 PRORATION UNIT**  
**OFFSET OPERATORS AND MINERALS OWNER**

Amoco Production Company  
Southern Rockies Business Unit  
1670 Broadway  
Denver, CO 80202

McKenzie Methane Corporation  
1625 Broadway  
Suite 2580  
Denver, CO 80202

Commissioner of Public Lands  
State of New Mexico  
P.O. Box 1148  
Santa Fe, NM 87504-1148



STATE OF NEW MEXICO  
ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE

OIL CONSERVATION DIVISION  
NOV 15 93 AM 9 19

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

Date: 11-10-93

DHC-947

*Ben Stone*

Oil Conservation Division  
P.O. Box 2088  
Santa Fe, NM 87504-2088

RE: Proposed MC \_\_\_\_\_  
Proposed NSL \_\_\_\_\_  
Proposed WFX \_\_\_\_\_  
Proposed NSP \_\_\_\_\_

Proposed DHC X \_\_\_\_\_  
Proposed SWD \_\_\_\_\_  
Proposed PMX \_\_\_\_\_  
Proposed DD \_\_\_\_\_

Gentlemen:

I have examined the application received on 11-10-93  
for the COMOCO STATE COM # 39  
OPERATOR LEASE & WELL NO.

C-36-29N-08W and my recommendations are as follows:  
UL-S-T-R

*Approve*

Yours truly,

*Ernie Busch*