

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
DISTRICT II
811 South First St., Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410
DISTRICT IV
2040 S. Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco
Santa Fe, New Mexico 87505-6429

Form C-107-A
Revised August 1999

APPROVAL PROCESS:

Administrative ☐ Hearing ☐

EXISTING WELLBORE

☒ YES ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Conoco Inc.

P.O. Box 2197 Houston, TX 77252-2197

Operator

Address

San Juan 28-7

94

N, Sec. 30, T28N, R7W

Rio Arriba

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

OGRID NO. 005073

Property Code

016608

API NO.

30-039-07282

Spacing Unit Lease Types: (check 1 or more)

Federal ☒ State ☐ (and/or) Fee ☐

The following facts are submitted in support of downhole commingling	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Blanco Pictured Cliffs 72359		Blanco Mesaverde 72319
2. Top and Bottom of Pay Section (Perforations)	2470 - 2540		4096 - 4824
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift: Gas & Oil - Flowing: All Gas Zones: Estimated Current Measured Current Estimated Or Measured Original	a. (Current) 355 b. (Original) 1078	a. RECEIVED OIL CON. DIV DIST. 3 b.	a. 540 b. 1250
6. Oil Gravity (EAPI) or Gas BTU Content	1189		Cliffhouse & Menefee expected 1250
7. Producing or Shut-In?	Producing		Producing - Pt. Lookout
Production Marginal? (yes or no)	Yes		Yes
* If Shut-In, give date and oil/gas/water rates of last production Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data * If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: Rates:	Date: Rates:	Date: Rates:
8. Fixed Percentage Allocation Formula - % for each zone (total of % to equal 100%)	Oil: % Gas: %	Oil: % Gas: %	Oil: % Gas: %

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

10. Are all working, overriding, and royalty interests identical in all commingled zones? ☐ Yes ☒ No
If not, have all working, overriding, and royalty interests been notified by certified mail? ☐ Yes ☒ No

11. Will cross-flow occur? ☒ Yes ☐ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. ☒ Yes ☐ No (If No, attach explanation)

12. Are all produced fluids from all commingled zones compatible with each other? ☒ Yes ☐ No

13. Will the value of production be decreased by commingling? ☐ Yes ☒ No (If Yes, attach explanation)

14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. ☐ Yes ☐ No

15. NMOC Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). R-10476 B

16. ATTACHMENTS:

- * C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- * Production curve for each zone for at least one year. (If not available, attach explanation.)
- * For zones with no production history, estimated production rates and supporting data.
- * Data to support allocation method or formula.
- * Notification list of working, overriding, and royalty interests for uncommon interest cases.
- * Any additional statements, data, or documents required to support commingling.

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

SIGNATURE

Deborah Moore

TITLE

Regulatory Analyst

DATE

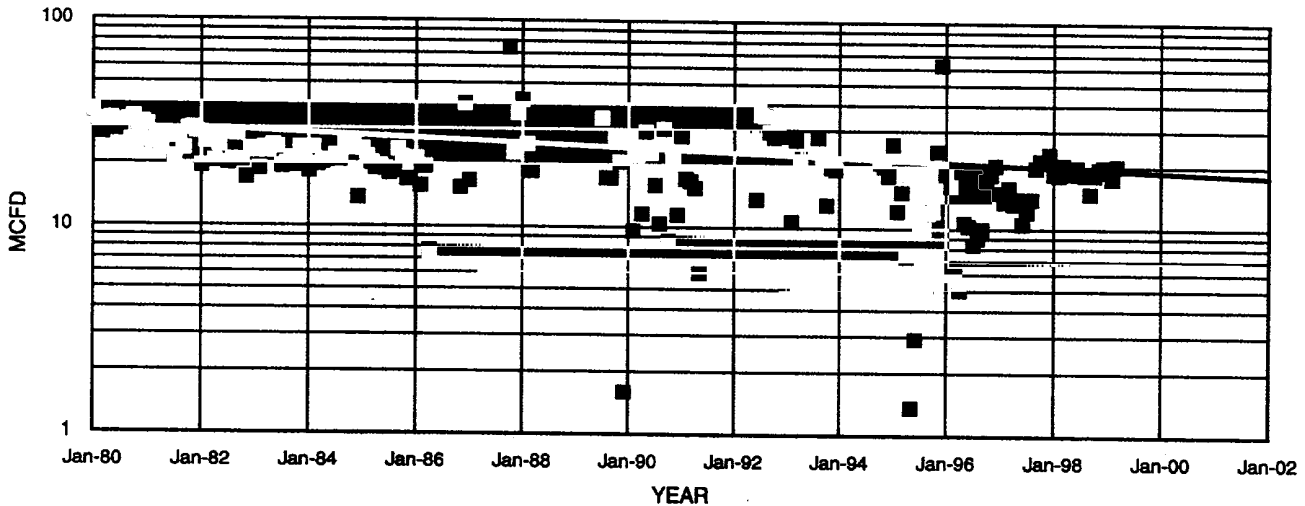
1/7/00

TYPE OR PRINT NAME

Deborah Moore

TELEPHONE NO. (281) 293-1005

**SJ 28-7 #94 PICTURED CLIFFS PRODUCTION
SECTION 30N-28N-07W, RIO ARriba COUNTY, NEW MEXICO**



■ PICTURED CLIFFS MCFD — FIT MCFD

PICTURED CLIFFS PRODUCTION **1ST PROD: 06/58**
OIL CUM: 0.00 MBO
GAS CUM: 437.0 MMCF
OIL YIELD: 0.0000 BBL/MCF

PICTURED CLIFFS PROJECTED DATA
Jan.00 Qi: 19 MCFD
DECLINE RATE: 2.5% (EXPONENTIAL)
API #30-036-07262

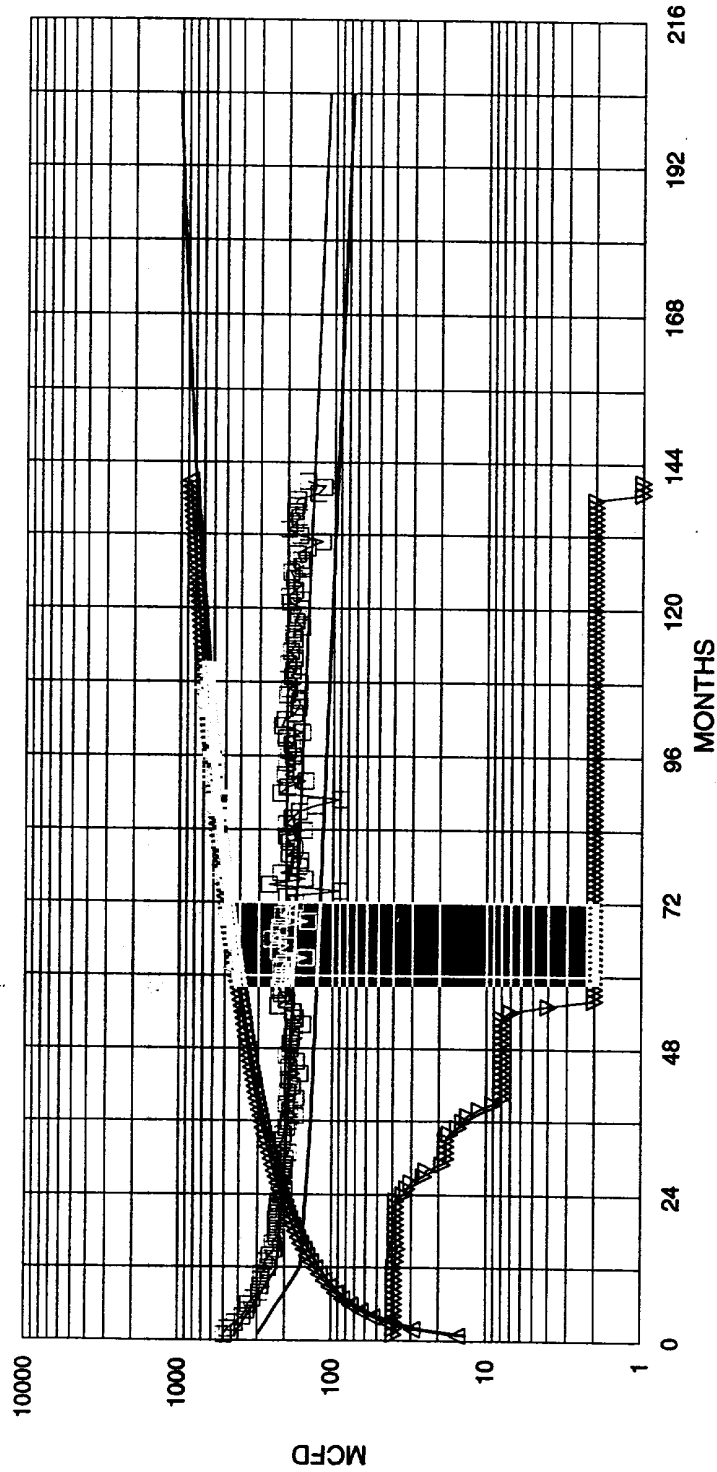
PRODUCTION FORECAST FOR SUBTRACTION METHOD COMMINGLE ALLOCATION TO PC

NOTE: Mesaverde Point Lookout also currently produces and will be DHC with proposed Mesaverde Cliffhouse and Menefee recompletion zones.

YEAR	MID-YEAR AVG. MCFD	MID-YEAR AVG. BOPD
2000	19	0
2001	18	0
2002	18	0
2003	17	0
2004	17	0
2005	17	0
2006	16	0
2007	16	0
2008	15	0
2009	15	0
2010	15	0
2011	14	0
2012	14	0
2013	14	0
2014	13	0
2015	13	0
2016	13	0
2017	12	0
2018	12	0
2019	12	0
2020	11	0
2021	11	0
2022	11	0
2023	10	0
2024	10	0
2025	10	0
2026	10	0
2027	9	0

NORMALIZED MESASVERDE PRODUCTION

PROD. SINCE 1985; 39 MV WELLS LOCATED IN 28N-7W (37 wells are 1990's completions)



— FIT MCFD □ NORMALIZED MCFD △ NORM CUM MMCF
▽ WELLS ON PRODUCTION — FIT CUM MMCF — RISKED MCFD

Expected Mesaverde Production - 325 MCFD for Yr. 1

NORMALIZED AVG:

1788 MMCF EUR
1145 MMCF IN 20 YRS
25 MCFD E.L.
0.0139 bbl/mcf oil yield

450 MCFD IP
50% DECLINE, 1ST 12 MONTHS
7% DECLINE, NEXT 24 MONTHS
4% FINAL DECLINE

RISKED AVG: 30% RISK

1184 MMCF EUR 315 MCFD IP
802 MMCF IN 20 YRS 50.0% DECLINE, 1ST 12 MONTHS
25 MCFD E.L. 7.0% DECLINE, NEXT 24 MONTHS
0.0139 bbl/mcf oil yield 4.0% FINAL DECLINE

10³
10³
10³

Lease: SAN JUAN 28 7 UNIT (94)

Dwights

Retrieval Code: 251,039,28N07W30N00PC
12/14/99

10²
10²
10²

10²
10²
10²

10
10
10

10
10

1
1
1

1
1

1970 1974 1978 1982 1986 1990 1994 1998

Gas (mcf/day)

Oil (bbl/day)

Well Count

Operator: CONOCO INC

Location: 30N 28N 7W

Field: BLANCO SOUTH (PICTU Gas Cum: 437.0 mmcf

Reservoir: PICTURE CLIFFS L.P. Date: 08/99

F.P. Date: 08/58

Oil Cum: 0 bbl

Water (bbl/day)

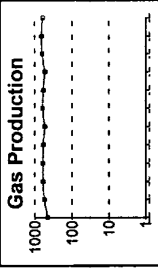
Yield (bbl/mmcf) Av x

Lease: SAN JUAN 28 7 UNIT
 Field: BLANCO SOUTH (PICTURE CLIFFS) PC
 Operator: CONOCO INC
 RCI #: 251,039,28N07W30N00PC
 API #: 30-039-07282-00

Well #: 94
 Location: 30N 28N 7W
 Liquid Cum:
 Gas Cum: 436,973 mcf
 Status: ACT GAS

FP Date: 58-08
 LP Date: 99-08
 Liq Since: FPDATE
 Gas Since: FPDATE

DATE	OIL, BBLs	GAS, MCF	WATER, BBLs	WELLS
09/1998	0	453	0	1
10/1998	0	558	0	1
11/1998	0	596	0	1
12/1998	0	608	0	1
01/1999	0	583	0	1
02/1999	0	537	0	1
03/1999	0	618	0	1
04/1999	0	589	0	1
05/1999	0	537	0	1
06/1999	0	634	0	1
07/1999	0	652	0	1
08/1999	0	606	0	1
Total	0	6,971	0	



10⁻³
10⁻³
10⁻³

Lease: SAN JUAN 28 7 UNIT (94)

Dwights

Retrieval Code: 251,039,28N07W30N00MV
12/14/99

10⁻²
10⁻²
10⁻²

10⁻²
10⁻²
10⁻²

10
10
10

10
10

1
1
1

1
1

1970 1974 1978 1982 1986 1990 1994 1998

Gas (mcf/day)

Oil (bbl/day)

Well Count

Operator: CONOCO INC

Location: 30N 28N 7W

Field: BLANCO (MESAVERDE) Gas Cum: 537.7 mmcf

Reservoir: MESAVERDE

F.P. Date: N/A

Oil Cum: 730 bbl

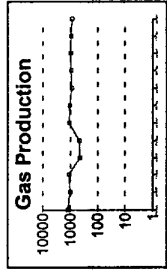
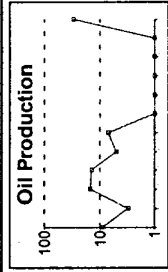
L.P. Date: 08/99

Water (bbl/day)

Yield (bbl/mmcf) Av

x

Lease:	SAN JUAN 28 7 UNIT	Well #:	94	FP Date:	N/A
Field:	BLANCO (MESAVARDE) MV	Location:	30N 28N 7W	LP Date:	99-08
Operator:	CONOCO INC	Liquid Cum:	730 bbls	Liq Since:	N/A
RCI #:	251,039,28N07W30N00MV	Gas Cum:	537,686 mcf	Gas Since:	N/A
API #:	30-039-07282-00	Status:	ACT GAS		



DATE	OIL, BBLs	GAS, MCF	WATER, BBLs	WELLS
09/1998	9	1,215	0	1
10/1998	3	999	0	1
11/1998	15	1,101	0	1
12/1998	14	436	0	1
01/1999	5	468	0	1
02/1999	7	1,062	0	1
03/1999	0	1,035	0	1
04/1999	0	884	0	1
05/1999	1	927	0	1
06/1999	0	967	0	1
07/1999	0	930	0	1
08/1999	30	858	0	1
Total	84	10,882	0	

NEW MEXICO OIL CONSERVATION COMMISSION

Well Location and Acreage Dedication Plat

Section A.

Date DECEMBER 20, 1957

Operator EL PASO NATURAL GAS COMPANY Lease SAN JUAN 28-7 UNIT PER
 Well No. 94 (PM) Unit Letter N Section 30 Township 28-N Range 7-W NMPM
 Located 800 Feet From SOUTH Line, 1850 Feet From WEST Line
 County RIO ARriba G. L. Elevation 5935 Dedicated Acreage 30528 - 15222 Acres
 Name of Producing Formation MESA VERDE & PICTURED CLIFF Pool BLANCO - NV, SO - BLANCO - FC

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below?
 Yes ☒ No ☐ *Andres*
2. If the answer to question one is "no", have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes ☐ No ☐ If answer is "yes", Type of Consolidation.

3. If the answer to question two is "no", list all the owners and their respective interests below:

Owner

Land Description

Section B.

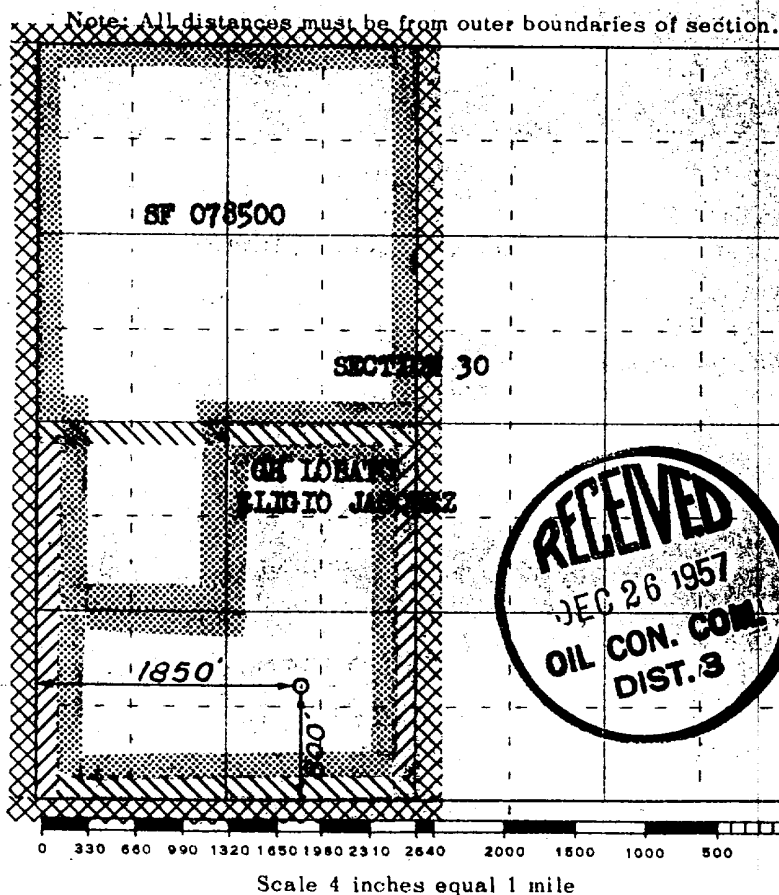
This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.

El Paso Natural Gas Company
 Original Signed D. C. Johnston

(Representative)

Box 197

(Address)

Farmington, New Mexico

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

(Seal)

Farmington, New Mexico

Date Surveyed DECEMBER 19, 1957

C. O. Walker
 Registered Professional Engineer and/or Land Surveyor