

DISTRICT I
P.O. Box 1980 Hobbs, NM 88241 1980
DISTRICT II
811 South First St. Artesia NM 88210 2835
DISTRICT III
1000 Rio Brazos Rd. Aztec, NM 87410 1693

State of New Mexico
Energy Minerals and Natural Resources Department
OIL CONSERVATION DIVISION
2040 S. Pacheco
Santa Fe, New Mexico 87505-6469

Form C-107-A
New 3-12-96

APPLICATION FOR DOWNHOLE COMMINGLING

APPROVAL PROCESS:
☒ Administrative ☐ Hearing
EXISTING WELLBORE
☒ YES ☐ NO

Conoco Inc.

10 Desta Dr. Ste 100W, Midland, Tx. 79705-4500

San Juan 28-7 Unit

181

Section 3, T-27-N, R-7-W, M

Rio Arriba

Lease Well No Unit Ltr Sec Twp Rge County

OGRID NO 005073 Property Code 016608 API NO 30-039-20775 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 Mesaverde 72319		Basin Dakota 71599
2 TOP and Bottom of Pay Section (Perforations)	Estimated 5020-5735'		7620-7828'
3 Type of production (Oil or Gas)	Gas		Gas
4 Method of Production (Flowing or Artificial Lift)	To flow		Flowing
5 Bottomhole Pressure Oil Zones - Artificial Lift Gas & Oil - Flowing All Gas Zones Estimated or Measured Original	a (Current) 457 b (Original) 1230		751 b. 2946
6 Oil Gravity ("API) or Gas BT Content	1247		1230
7 Producing or Shut-in?	To be completed		Producing
Production Marginal? (yes or no)	Expected Yes		Yes
- If Shut-In give date and oil/gas/water rates of last production	Date Rates	Date Rates	Date Rates
- If Producing, date and oil/gas/water rates of recent test (within 60 days)	Production allocated by subtraction - See attached chart	Date Rates	1.99 94 MCFD
8 Fixed Percentage Allocation Formula - % for each zone	Gas	Gas	Gas

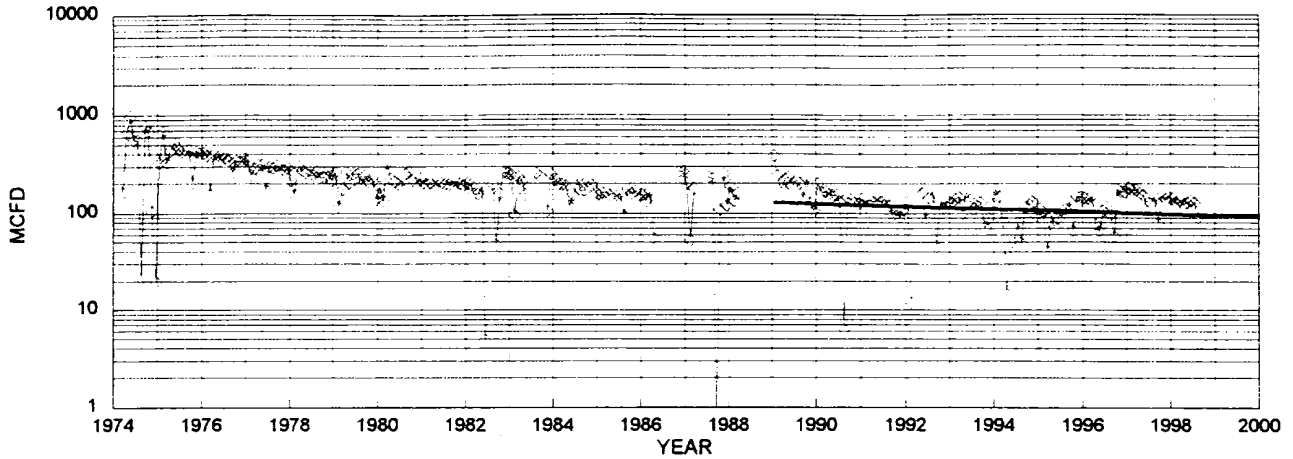
9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.
10. Are all working, overriding, and royalty interests identical in all commingled zones? ☒ Yes ☐ No
If not, have all working, overriding, and royalty interests been notified by certified mail? ☐ Yes ☐ No
Have all offset operators been given written notice of the proposed downhole commingling? ☒ 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 others ☒ 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 all offset operators.
 - * 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 Kay Maddox TITLE Regulatory Agent DATE February 11, 1999

TYPE OR PRINT NAME Kay Maddox TELEPHONE NO. (915) 686-5798

**SAN JUAN 28 7 UNIT #181 DAKOTA PRODUCTION
SECTION 3M-27N-07W**



— DAKOTA MCFD — FIT MCFD

DAKOTA HISTORICAL DATA: 1ST PROD: 03/74

OIL CUM: 13.33 MBO
 GAS CUM: 1615.1 MMCF
 CUM OIL YIELD: 0.0083 BBL/MCF
 OIL YIELD: 0.0074 BBL/MCF, LAST 3 YRS
 AVG. USED: 0.0078 BBL/MCF

DAKOTA PROJECTED DATA

1/1/99 Qi: 95 MCFD
 DECLINE RATE: 3.0% (EXPONENTIAL)

YEAR	MID-YEAR	MID-YEAR
	AVG. MCFD	AVG. BOPD
1999	93.7	0.7
2000	90.9	0.7
2001	88.1	0.7
2002	85.5	0.7
2003	82.9	0.6
2004	80.4	0.6
2005	78.0	0.6
2006	75.7	0.6
2007	73.4	0.6
2008	71.2	0.6
2009	69.1	0.5
2010	67.0	0.5
2011	65.0	0.5
2012	63.1	0.5
2013	61.2	0.5
2014	59.3	0.5
2015	57.5	0.5
2016	55.8	0.4
2017	54.1	0.4
2018	52.5	0.4
2019	50.9	0.4
2020	49.4	0.4
2021	47.9	0.4
2022	46.5	0.4
2023	45.1	0.4
2024	43.7	0.3
2025	42.4	0.3
2026	41.2	0.3
2027	39.9	0.3
2028	38.7	0.3
2029	37.6	0.3
2030	36.4	0.3
2031	35.3	0.3
2032	34.3	0.3
2033	33.3	0.3

PRODUCTION FORECAST FOR SUBTRACTION METHOD COMMINGLE ALLOCATION

10³
10³

Lease: SAN JUAN 28 7 UNIT (181)

Dwights
02/08/99

Retrieval Code: 251,039,27N07W03M00DK

10³

10²
10²

10
10

1
1

1971 1973 1975 1977 1979 1981 1983 1985 1987 1989 1991 1993 1995 1997 1999

Gas (mcf/day)

County: RIO ARRIBA, NM

F.P. Date: 03/74

Oil (bbl/day)

Water (bbl/day)

Field: BASIN (DAKOTA) DK

Oil Cum: 13.33 mbbl

Reservoir: DAKOTA

Gas Cum: 1615 mmcf

Operator: CONOCO INC

Location: 3M 27N 7W

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION AT

Form O-111
Supersedes O-11
Effective 1-1-61

All distances must be from the outer boundaries of the Section

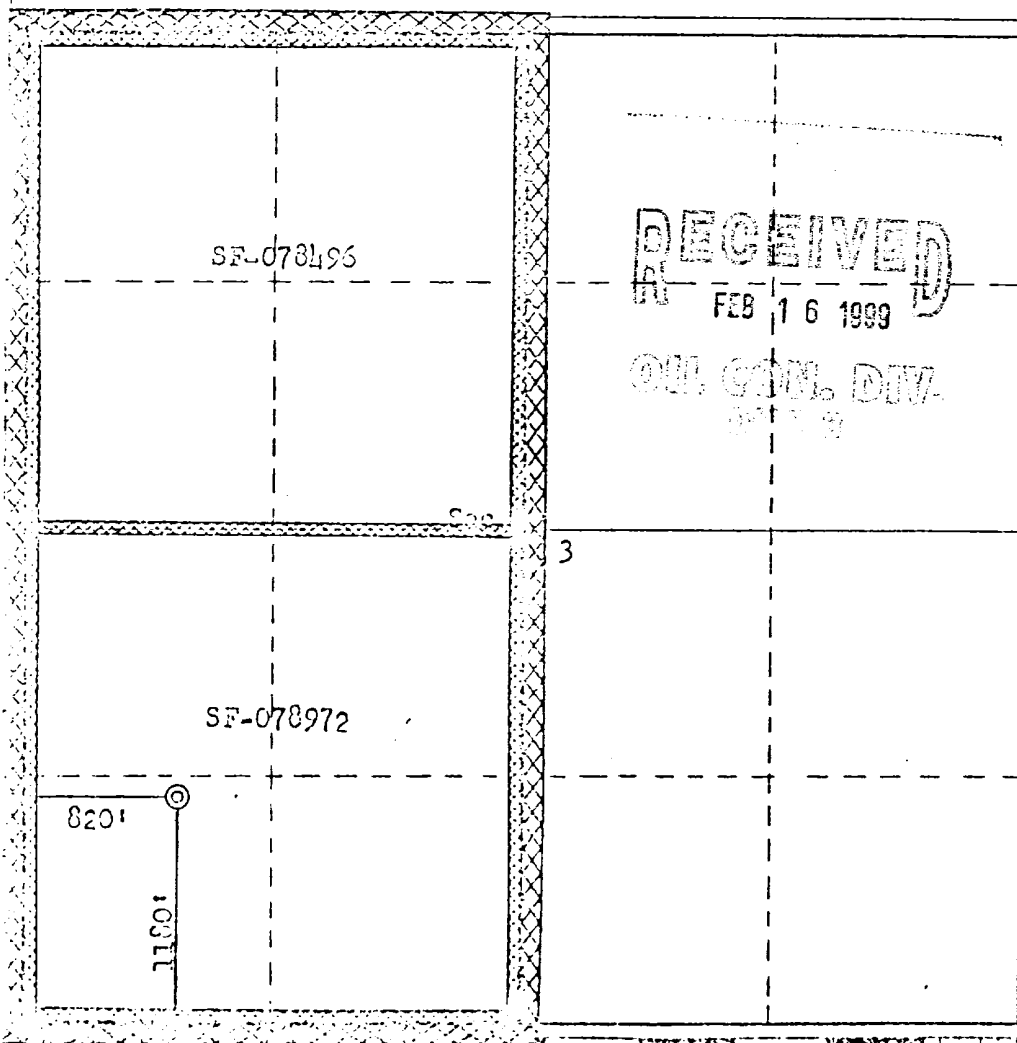
Operator El Paso Natural Gas Company			Lease San Juan 28-7 Unit (SF-078972)		Well No. 181
Unit Letter M	Section 3	Township 27N	Range 7W	County Rio Arriba	
Actual Footage Location of Well:					
1180 feet from the South line and 820 feet from the West line					
Ground Level Elev. 6776	Producing Formation Dakota	Pool Basin Dakota		Dedicated Acreage: 319.99 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes ☐ No If answer is "yes," type of consolidation Unitization

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

A. H. Linder

Name
Drilling Clerk
Position
El Paso Natural Gas Company
Company
September 12, 1973
Date

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
JULY 27, 1973
Surveyed by
[Signature]
and
[Signature]

[Signature]

3950

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd. Aztec, NM 87410

District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102

Revised February 21, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-20775	2 Pool Code 72319	3 Pool Name Blanco Mesaverde
4 Property Code 016608	5 Property Name San Juan 28-7 Unit	6 Well Number # 181
7 OGRID No. 005073	8 Operator Name Conoco Inc., 10 Desta Drive, Ste. 100W, Midland, TX 79705-4500	9 Elevation 6776'

10 Surface Location

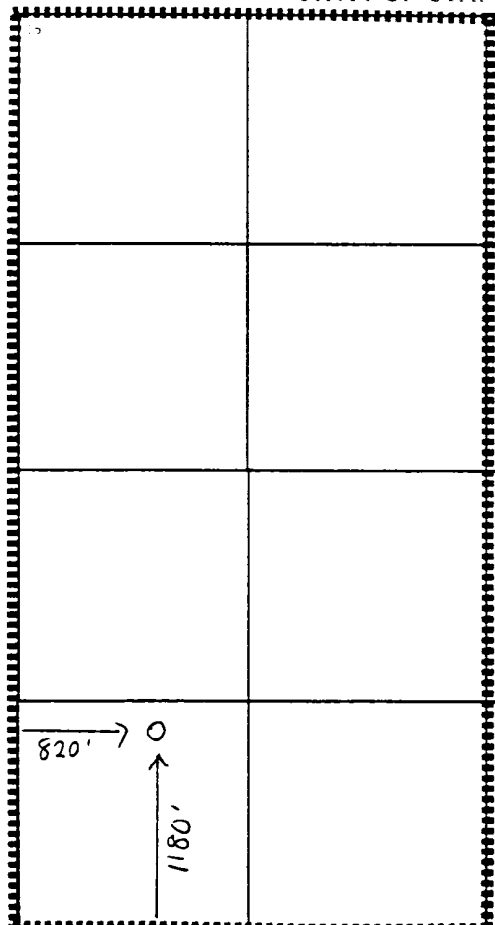
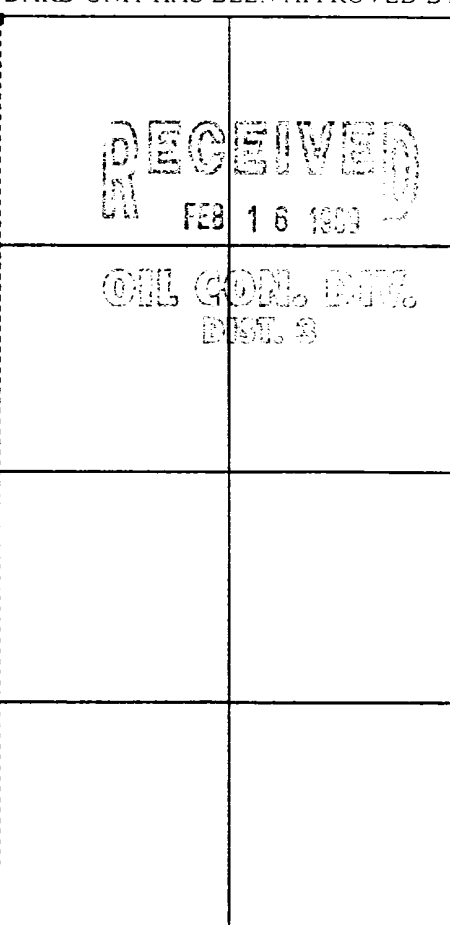
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	3	27N	7W		1180	South	820	West	Rio Arriba

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres 319.99	13 Joint or Infill	14 Consolidation Code	15 Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature <u>Kay Maddox</u> Printed Name <u>Kay Maddox</u> Title <u>Regulatory Agent</u> Date <u>January 28, 1999</u>
		18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey Signature and Seal of Professional Surveyor:
		Certificate Number

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Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-039-20775		2 Pool Code 72319		3 Pool Name Blanco Mesaverde	
4 Property Code 016608		5 Property Name San Juan 28-7 Unit			6 Well Number # 131
7 OGRID No. 005073		8 Operator Name Conoco Inc., 10 Desta Drive, Ste. 100W, Midland, TX 79705-4500			9 Elevation 6776'

10 Surface Location

UL or lat. no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	3	27N	7W		1180	South	820	West	Rio Arriba

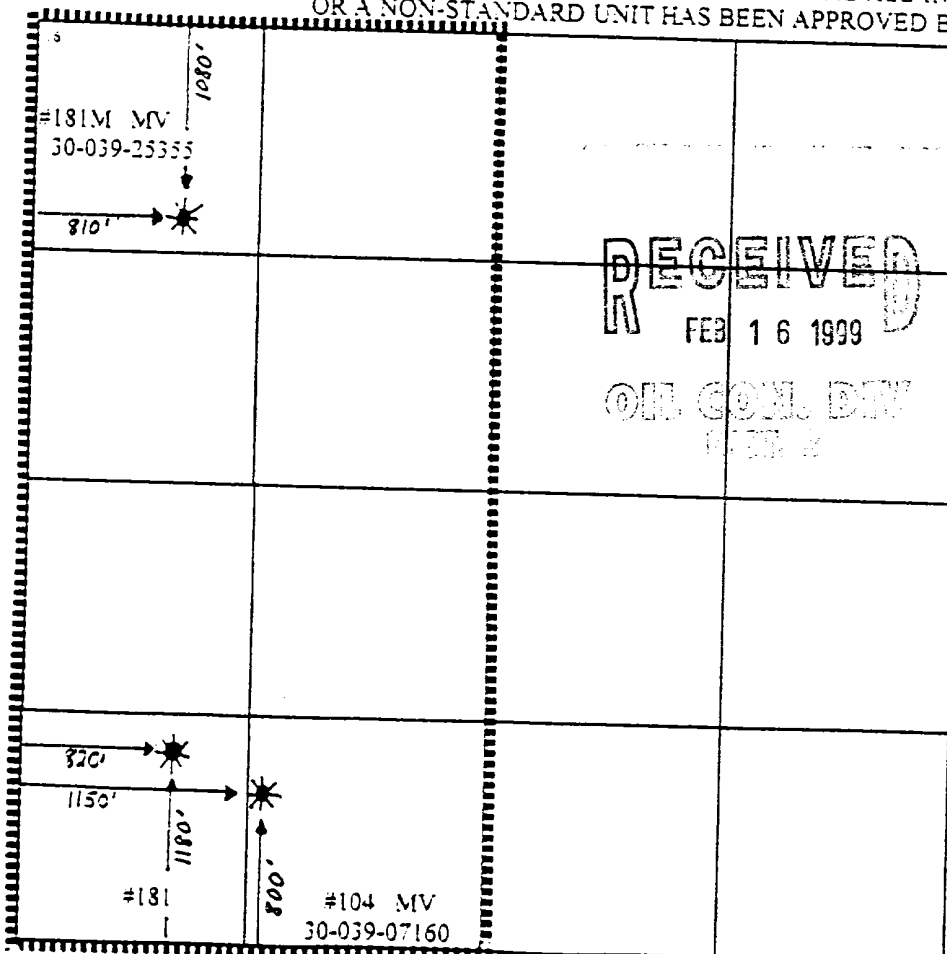
11 Bottom Hole Location If Different From Surface

UL or lat. no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres 320	13 Joint or Infill	14 Consolidation Code	15 Order No.
---------------------------	--------------------	-----------------------	--------------

R-10987 - A

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



17 OPERATOR CERTIFICATION

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

Signature

Kay Maddox

Printed Name

Kay Maddox

Title

Regulatory Agent

Date

February 10, 1999

Date

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey

Signature and Seal of Professional Surveyor

Certificate Number

February 11, 1999

RE: Notification of Offset Operators of C-107A Application
San Juan 28-7 Unit Well # 181

Conoco Inc is the sole operator of the San Juan 28-7 Unit. This well does not encroach on any outside unit boundary lines therefore there are no offset operators that require notification.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See instructions on
reverse side)Form approved.
Budget Bureau No. 42-R355.6.

5. LEASE DESIGNATION AND SERIAL NO.

SF 078972

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

San Juan 28-7 Unit

8. FARM OR LEASE NAME
San Juan 28-7 Unit

9. WELL NO.

181

10. FIELD AND POOL, OR WILDCAT

Basin Dakota

11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREASec. 3, T-27-N, R-7-W
NMPM12. COUNTY OR
PARISH

Rio Arriba

13. STATE

New Mexico

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. CESVR. ☐ Other _____

2. NAME OF OPERATOR

El Paso Natural Gas Company

3. ADDRESS OF OPERATOR

PO Box 990, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface

1180'S, 820'W

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

15. DATE SCHEDULED 11-17-73 16. DATE T.D. REACHED 11-28-73 17. DATE COMPL. (Ready to prod.) 1-14-74 18. ELEVATIONS (DF, RES, RT, GR, ETC.)* 6776'GL 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 7866' 21. PLUG, BACK T.D., MD & TVD 7859' 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY 0-7866' 24. ROTARY TOOLS 25. CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 7620-7828' (Dakota) 25. WAS DIRECTIONAL SURVEY MADE NO

26. TYPE ELECTRIC AND OTHER LOGS RUN

Ind. Gamma Ray; Form. Density; Temp. Survey

27. WAS WELL CORED

NO

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8"	32.3#	241'	13 3/4"	225 cu. ft.	
7"	20#	3688'	8 3/4"	269 cu. ft.	
4 1/2"	10.5#&11.6#	7866'	6 1/4"	642 cu. ft.	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					1 1/2"	7828'	

31. PERFORATION RECORD (Interval, size and number)

7620', 7646', 7648', 7756', 7758', 7784', 7808' and 7828' with one shot per zone

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7620-7828'	71,000#sand; 86,010 gal. water

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
		flowing				shut in	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BSL.	GAS—MCF.	WATER—BSL.	GAS-OIL RATIO
1-14-74	3	3/4"	→				
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BSL.	GAS—MCF.	WATER—BSL.	OIL GRAVITY-API (CORR.)	
SI 1245	SI 2615	→		2020 AOF			

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

LW Fothergill

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE

Drilling Clerk

DATE

January 23, 1974

*(See Instructions and Spaces for Additional Data on Reverse Side)