

DISTRICT I
COUNTY OF SANTIAGO, NM 88241-1989
DISTRICT II
511 South First St. Artesia NM 88210-2835
DISTRICT III
1000 Rio Brazos Rd. Aztec NM 87410-1693

State New Mexico
Energy, Minerals and Natural Resources Department

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

OIL CONSERVATION DIVISION

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

APPROVAL PROCESS:

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☒ YES ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING 2:32

Conoco Inc

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

San Juan 28-7 Unit

158L

Section 23, T-28-N, R-7-W, P

Rio Arriba

Lease

Well No

Unit (If Spacing Unit)

County

OGRID NO 005073

Property Code

016608

API NO

30-039-23746

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 Mesaverte 72319		Basin Dakota 71599
2 TOP and Bottom of Pay Section (Perforations)	Estimated -4990-5810'		7606-7793'
3 Type of production (Oil or Gas)	Gas		Gas
4 Method of Production (Flowing or Artificial Lift)	To flow		Flowing
5 Bottomhole Pressure	a (Current) 457		751
Oil Zones - Artificial Lift Gas & Oil - Flowing All Gas Zones Estimated Or Measured Original	b (Original) 1230		2946
6 Oil Gravity (°API) or Gas BT Content	1216		1164
7 Producing or Shut-in?	To be completed		Producing
Production Marginal? (yes or no)	Expected Yes		Yes
8 If Shut-in give date and oil/gas/water rates of last production	Date Rates	Date Rates	Date Rates
9 If Producing, date and oil/gas/water rates of recent test (within 60 days)	Date Rates Production allocated by subtraction - See attached chart	Date Rates	Date Rates 1 99 59 MCFD
10 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

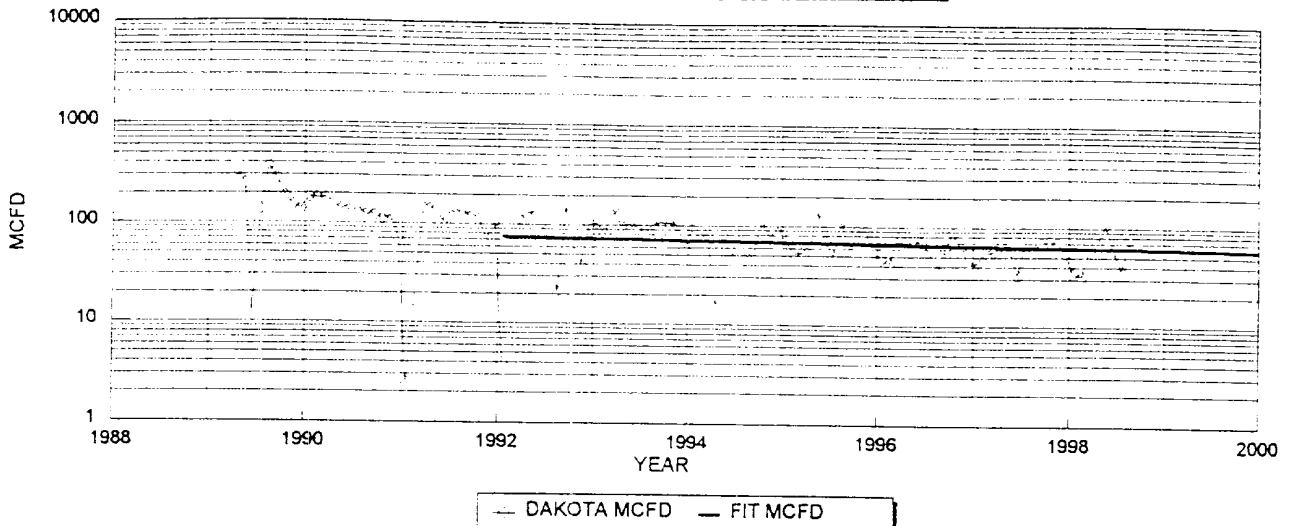
- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production curve for each zone for at least one year (if not available, attach explanation.)
- For zones with no production history, estimated production rates and supporting data.
- Data to support allocation method 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 #158E DAKOTA PRODUCTION
SECTION 23P-287N-07W



DAKOTA HISTORICAL DATA:		1ST PROD: 12/88	DAKOTA PROJECTED DATA	
OIL CUM:	0.60	MBO	1/1/99 Qi:	60 MCFD
GAS CUM:	322.1	MMCF	DECLINE RATE:	3.0% (EXPONENTIAL)
CUM OIL YIELD:	0.0018	BBL/MCF		
OIL YIELD:	0.0011	BBL/MCF, LAST 3 YRS		
AVG. USED:	0.0015	BBL/MCF		

PRODUCTION FORECAST FOR SUBTRACTION METHOD COMMINGLE ALLOCATION

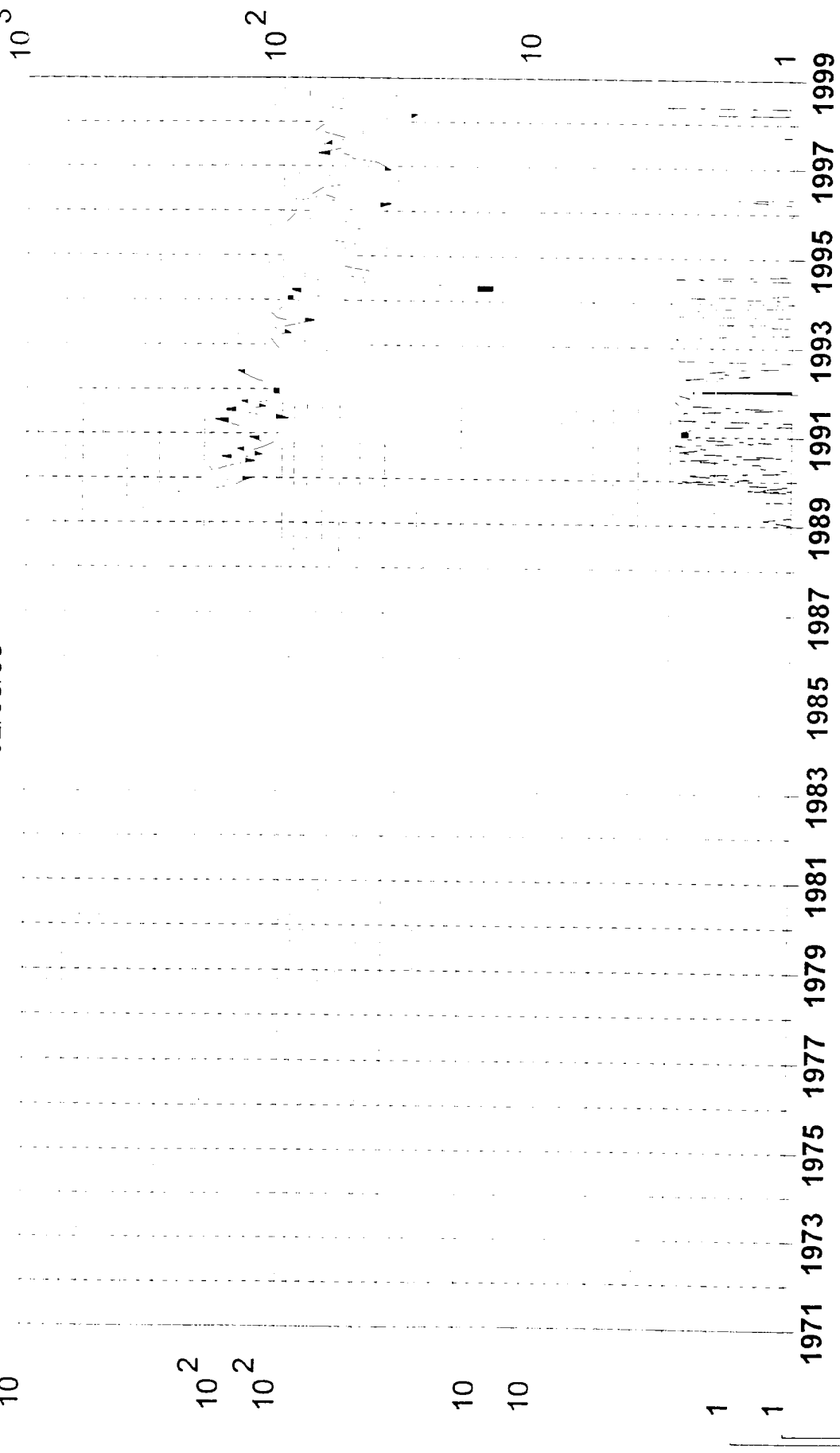
YEAR	MID-YEAR AVG. MCFD	MID-YEAR AVG. BOPD
1999	59.4	0.1
2000	57.7	0.1
2001	55.9	0.1
2002	54.2	0.1
2003	52.6	0.1
2004	51.0	0.1
2005	49.5	0.1
2006	48.0	0.1
2007	46.6	0.1
2008	45.2	0.1
2009	43.8	0.1
2010	42.5	0.1
2011	41.2	0.1
2012	40.0	0.1
2013	38.8	0.1
2014	37.6	0.1
2015	36.5	0.1
2016	35.4	0.1
2017	34.4	0.1
2018	33.3	0.0
2019	32.3	0.0
2020	31.4	0.0
2021	30.4	0.0
2022	29.5	0.0
2023	28.6	0.0
2024	27.8	0.0
2025	26.9	0.0
2026	26.1	0.0
2027	25.3	0.0
2028	24.6	0.0
2029	23.8	0.0
2030	23.1	0.0
2031	22.4	0.0
2032	21.8	0.0
2033	21.1	0.0

10³
10³

Lease: SAN JUAN 28 7 UNIT (158E)

Dwights
02/08/99

Retrieval Code: 251,039,28N07W23P00DK



Gas (mcf/day)

Water (bbl/day)

Oil (bbl/day)

County: RIO ARRIBA, NM

Field: BASIN (DAKOTA) DK

Reservoir: DAKOTA

Operator: CONOCO INC

F.P. Date: 12/88

Oil Cum: 595 bbl

Gas Cum: 322.1 mmcf

Location: 23P 28N 7W

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator EL PASO NATURAL GAS COMPANY			Lease SAN JUAN 28-7 UNIT (SE 079290A)		Well No. 1532
Unit Letter P	Section 23	Township 28N	Range 7W	County Rio Arriba	
Actual Footage Location of Well: 1140 feet from the South line and 890 feet from the East line					
Ground Level Elev: 6644	Producing Formation Dakota		Pool Basin		Dedicated Acreage 320 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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.

RECEIVED
JUN 05 1985
BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

Sec. **23**

1140' **890'**

CERTIFICATION

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

Name
Drilling Clerk

Position
El Paso Natural Gas Co.

Company
June 4, 1985

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
May 13, 1985

Registered Professional Engineer and Land Surveyor
Fred B. Kerr Jr.

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 30-039-23746	2 Pool Code 72319	3 Pool Name Blanco Mesaverde
4 Property Code 016608	5 Property Name San Juan 28-7 Unit	6 Well Number # 158E
7 OGRID No. 005073	8 Operator Name Conoco Inc., 10 Desta Drive, Ste. 100W, Midland, TX 79705-4500	9 Elevation 6644'

10 Surface Location

UL or lot no. P	Section 23	Township 28N	Range 7W	Lot Idn	Feet from the 1140	North/South line South	Feet from the 890	East/West line East	County Rio Arriba
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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
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12 Dedicated Acres 320	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 <i>Kay Maddox</i> Kay Maddox	
				Printed Name Regulatory Agent	
				Title January 28, 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	

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Form C-102

Revised February 21, 1994
Instructions on back
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State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

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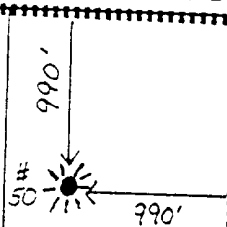
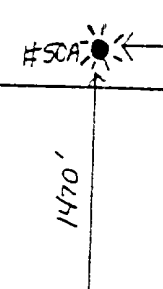
10 Surface Location

UL or Grid No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	23	28N	7W		1140'	South	890'	East	Rio Arriba

11 Bottom Hole Location If Different From Surface

UL or Grid 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

16				17 OPERATOR CERTIFICATION	
				I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
#50 30-039-07385				Signature  Kay Maddox	
#50A 30-039-21948				Printed Name Regulatory Agent	
				Title February 8, 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 # 158E

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
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER ☐
2. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP EN ☐ PLUG BACK ☐ DIFF. REVEL. ☐ OTHER ☐
3. NAME OF OPERATOR: El Paso Natural Gas Company
4. ADDRESS OF OPERATOR: P. O. Box 4289, Farmington, NM 87499
5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements):
At surface 1140'S, 890'E
Set top prod. interval reported below
At total depth

RECEIVED

SEP 27 1985

BUREAU OF LAND MANAGEMENT

FARMINGTON RESERVE AREA

6. LEASE DESIGNATION AND SERIAL NO.

SF 079290A

7. IF INDIAN, ALLOTTEE OR TRIBE NAME

8. UNIT AGREEMENT NAME

San Juan 28-7 Unit

9. FARM OR LEASE NAME

San Juan 28-7 Unit

10. WELL NO.

158E

11. FIELD AND POOL, OR WILDCAT

Basin Dakota

12. SEC. T. R. M. OR BLOCK AND SURVEY OR AREA

Sec. 23, T-28-N, R-7-W
NMPM

13. COUNTY OR PARISH

Rio Arriba

14. STATE

NM

15. DATE SPUDDED: 7-9-85
16. DATE T.D. REACHED: 7-19-85
17. DATE COMPL. (Ready to prod.): 9-24-85
18. ELEVATIONS (OF. RKB, RT. GR. ETC.): 6644' GL
19. ELEV. CASINGHEAD: 6644'

20. TOTAL DEPTH, MD & TVD: 7810'
21. PLUG, BACK T.D., MD & TVD: 7752' 7795'
22. IF MULTIPLE COMPL., HOW MANY: One
23. INTERVALS DRILLED BY: Rotary
24. ROTARY TOOLS: No
25. CABLE TOOLS: No

26. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD):
7606-7793' (Basin Dakota)
27. WAS DIRECTIONAL SURVEY MADE: No

28. TYPE ELECTRIC AND OTHER LOGS RUN: GR-C-Log; Ind. GR-Log; Comp. Density Comp. Neutron Log; Temp Surveys
29. WAS WELL COBED: No

30. 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"	36.0#	228'	12 1/4"	130 cu ft	
7"	20.0#	3680'	8 3/4"	356 cu ft	
4 1/2"	10.5&11.6#	7810'	6 1/4"	643 cu ft	

31. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					1 1/2"	7760'	

32. PERFORATION RECORD (Interval, size and number)

7606, 7609, 7615, 7623, 7626, 7648, 7693,
7715, 7717, 7719, 7721, 7723, 7725, 7727,
7729, 7731, 7785, 7787, 7790, 7793 w/20
SPZ

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7606-7793	120,000# 20/40 sand&93,526 gals fluid

34. PRODUCTION

DATE FIRST PRODUCTION: 8-28-85
PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump): Flowing
WELL STATUS (Producing or shut-in): Shut in

DATE OF TEST: 9-24-85
HOURS TESTED: 3 Hrs.
CHOKE SIZE: 3/4"
PROD'N. FOR TEST PERIOD: 0
OIL—BSL.: 0
GAS—MCF: 311 MCF
WATER—BSL.: 0
GAS-OIL RATIO: 0

FLOW. TUBING PRESS.: SI 2234
CASING PRESSURE: SI 2246
CALCULATED 24-HOUR RATE: 0
OIL—BSL.: 0
GAS—MCF: 1785
WATER—BSL.: 0
OIL GRAVITY-API (CORR.): 0

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

Shut in to be Sold

TEST WITNESSED BY

W. D. Paul

36. LIST OF ATTACHMENTS

Temp Surveys

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

SIGNED

[Signature]

TITLE

Drilling Clerk

DATE

9-26-85

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

OPERATOR

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.