

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241 1980

State of New Mexico
Energy, Minerals and Natural Resources Department

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

DISTRICT II
811 South First St. Artesia NM 88210 2835

OIL CONSERVATION DIVISION

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

APPROVAL PROCESS:

☒ Administrative ☐ Hearing

DISTRICT III
1000 Rio Brazos Rd. Aztec, NM 87410 1693

EXISTING WELLBORE

☒ YES ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Operator Conoco Inc. Address 10 Desta Dr. Ste 100W, Midland, Tx. 79705-4500

Lease Jicarilla D Well No 10 Unit Ltr Sec Twp Rge Section 31, T-26-N, R-3-W, H County Rio Arriba

OGRID NO. 005073 Property Code 18021 API NO. 30-039-08100 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	Tapacito Pictured Cliffs 85920		Blanco Mesaverde 72319
2. TOP and Bottom of Pay Section (Perforations)	3863-3890'		5934-6135' OA
3. Type of production (Oil or Gas)	Gas		
4. Method of Production (Flowing or Artificial Lift)	Flowing		To be Completed
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	a (Current) 352 b(Original) 1178	RECEIVED DEC 15 1997 OIL CON. DIV. DIST. 3 b.	a. 704 b. 1365
6. Oil Gravity (*API) or Gas BT Content	1253		1251
7. Producing or Shut-In?	Producing		To be Completed
Production Marginal? (yes or no)	Yes		Expected to be
• If Shut-In give date and oil/gas/ water rates of last production Note For new zones with no production history applicant should be required to attach production estimates and supporting data	Date Rates	Date Rates	Date Rates
• If Producing, date and oil/gas/ water rates of recent test (within 60 days)	Date Rates EST 2/98 22 MCFD, 0 BOPD, 0 BWPD	Date Rates	Date Rates EST 2/98 280 MCFD, 1 BOPD, 0 BWPD
8. Fixed Percentage Allocation Formula - % for each zone	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
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. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). _____

16. ATTACHMENTS

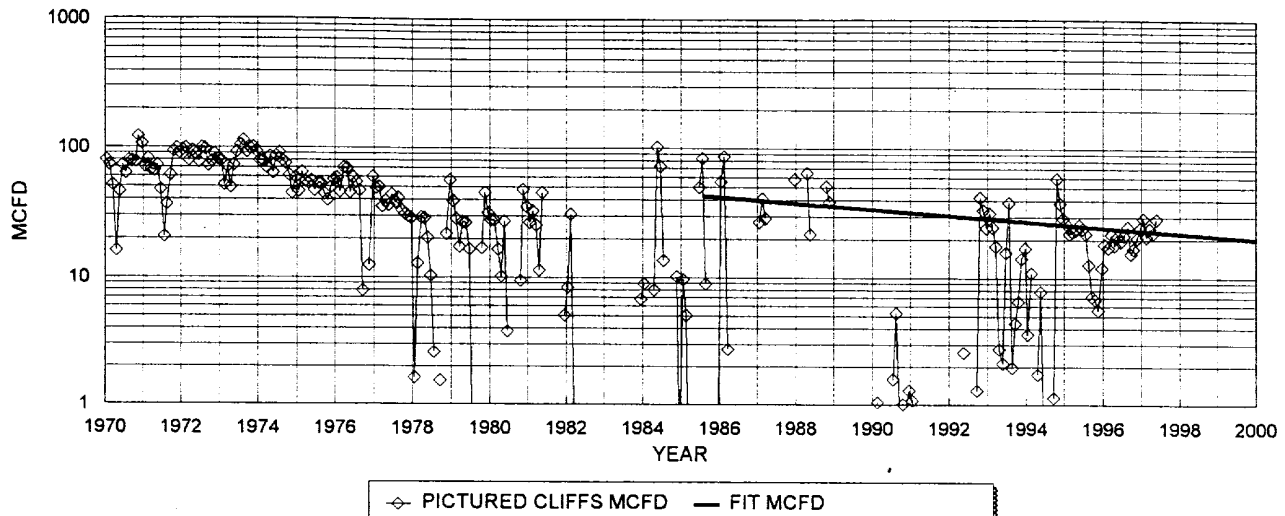
- * C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- * Production curve for each zone for at least one year. (If not available, attach explanation.)
- * For zones with no production history, estimated production rates and supporting data.
- * Data to support allocation 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 12/10/97

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

JICARILLA D 10 PICTURED CLIFFS
SECTION 31H-26N-03W

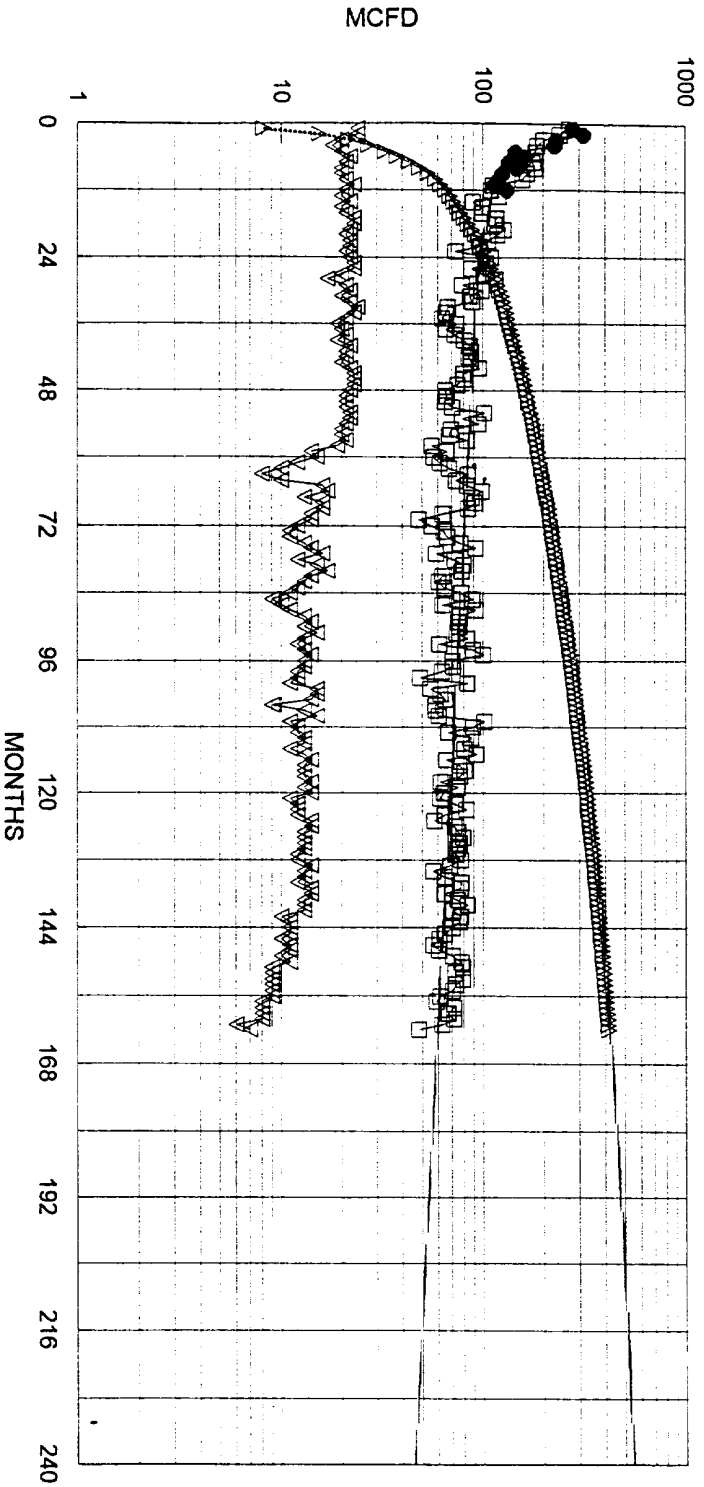


HISTORICAL DATA:		1ST PROD: 12/66	PROJECTED DATA	
OIL CUM:	0.00 MBO		2/1/98 Qi:	22 MCFD
GAS CUM:	372 MMCF		DECLINE RATE:	5.1% (EXPONENTIAL)
CUM OIL YIELD	0.0000 BBL/MCF			
OIL YIELD:	0.0000 BBL/MCF, LAST 3 YRS			
AVG. USED:	0.0000 BBL/MCF			

PRODUCTION FORECAST FOR SUBTRACTION METHOD COMMINGLE ALLOCATION

	MID-YEAR	MID-YEAR
YEAR	AVG. MCDFD	AVG. BOPD
1998	22.2	0.0
1999	21.5	0.0
2000	20.4	0.0
2001	19.4	0.0
2002	18.4	0.0
2003	17.4	0.0
2004	16.5	0.0
2005	15.7	0.0
2006	14.9	0.0
2007	14.1	0.0
2008	13.4	0.0
2009	12.7	0.0
2010	12.1	0.0
2011	11.5	0.0
2012	10.9	0.0
2013	10.3	0.0
2014	9.8	0.0
2015	9.3	0.0
2016	8.8	0.0
2017	8.4	0.0
2018	8.0	0.0
2019	7.5	0.0
2020	7.2	0.0
2021	6.8	0.0
2022	6.5	0.0
2023	6.1	0.0
2024	5.8	0.0
2025	5.5	0.0
2026	5.2	0.0
2027	5.0	0.0

NORMALIZED MESAVERDE PRODUCTION
25 WELLS SINCE 1980; 26N 4W SEC 7-36



— FIT MCFD □ NORMALIZED MCFD △ NORM CUM MMCF
▽ WELLS ON PRODUCTION — FIT CUM MMCF ● 7 NEW MERIT REC. SINCE '94

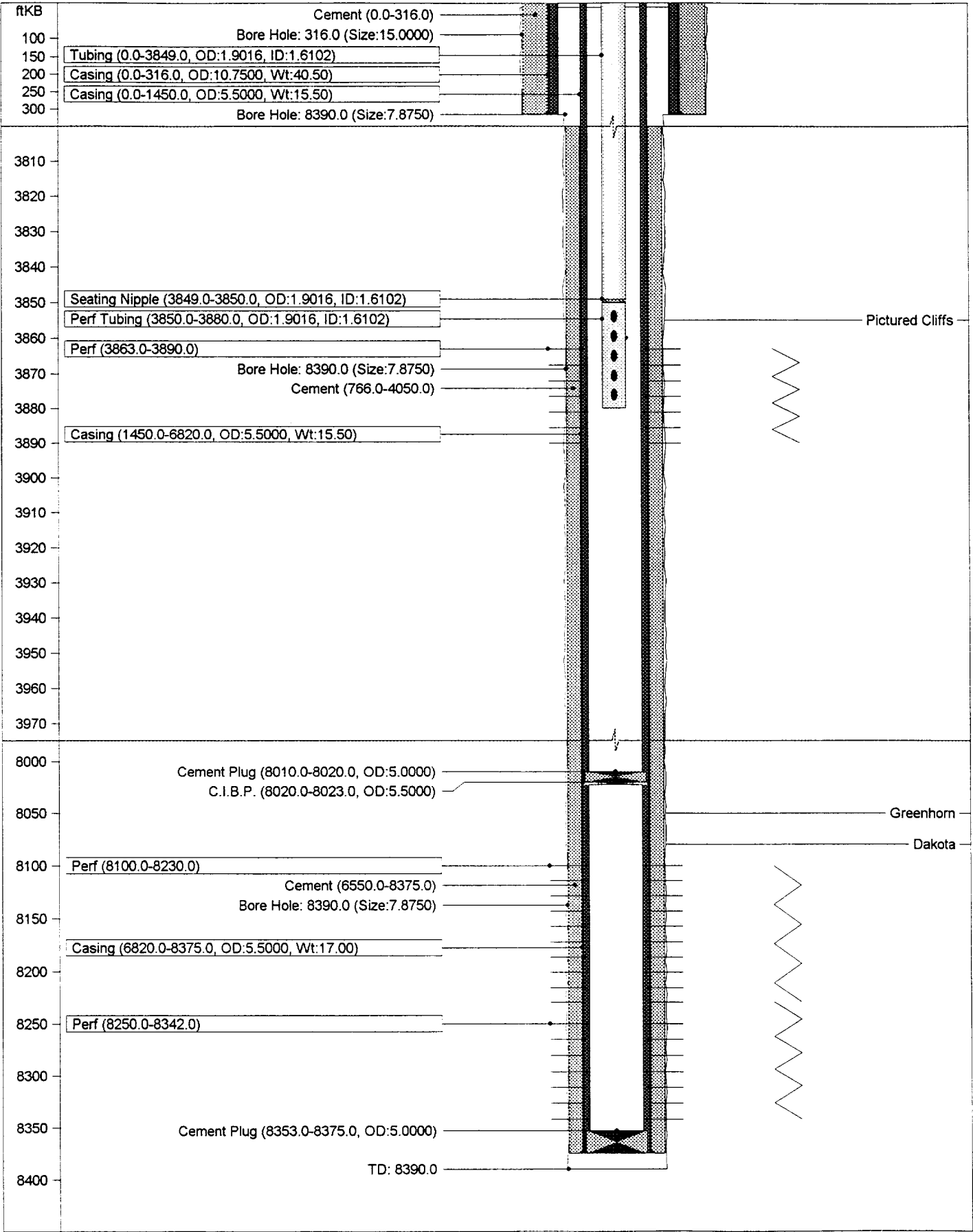
NORMALIZED AVG:

777 MMCF EUR
549 MMCF IN 20 YRS
20 MCFD E.L.
0.004 BBL/MCF OIL YIELD

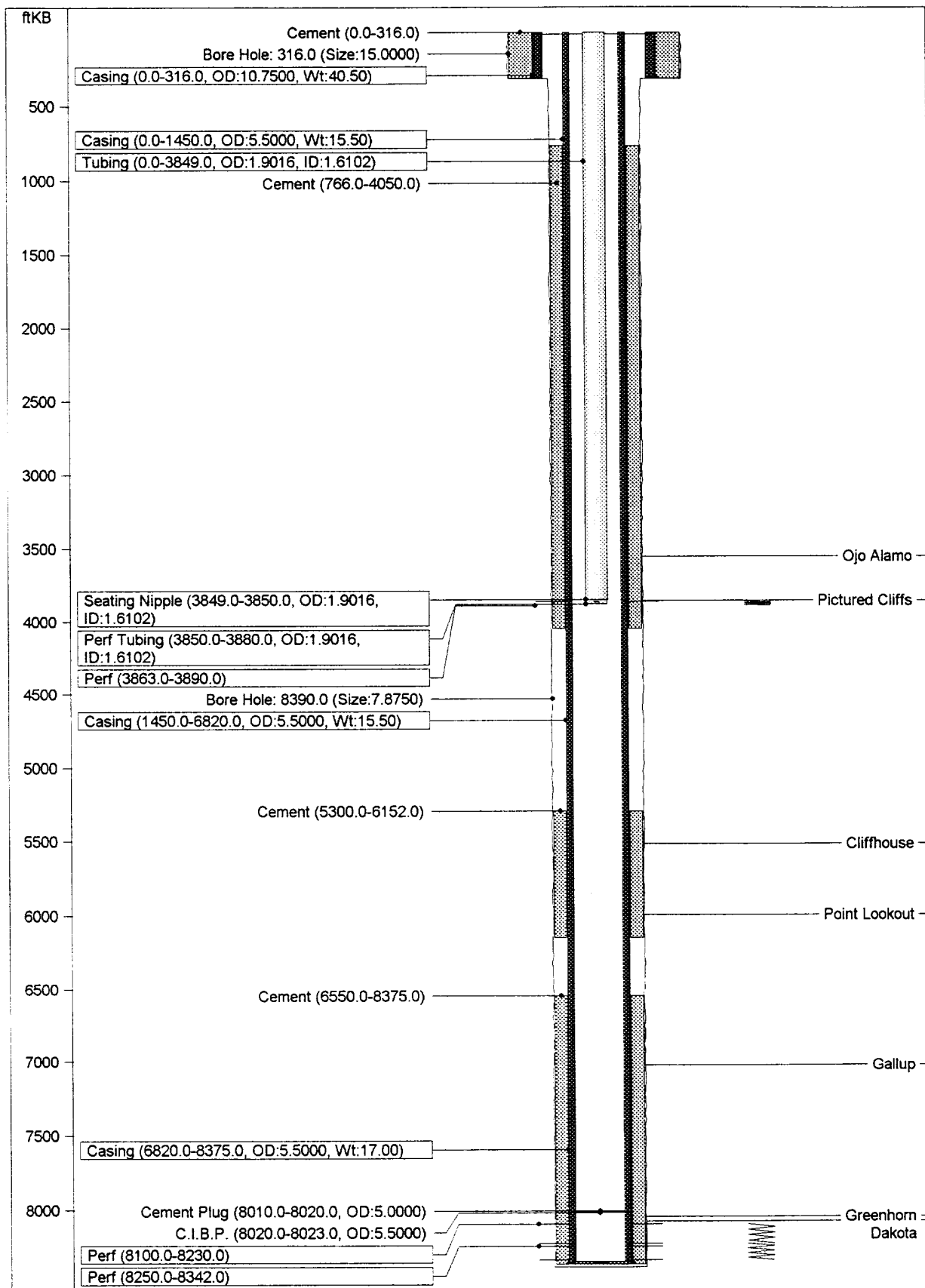
280 MCFD IP
60% DECLINE, 1ST 12 MONTHS
15% DECLINE, NEXT 12 MONTHS
4.0% FINAL DECLINE

Similar performance expected in 1c.D10; 31-26-3

JICARILLA D 10 (LFW 10/7/97)



JICARILLA D 10 (LFW 10/7/97)



JICARILLA D 10 (LFW 10/7/97)

JICARILLA D 10 (LFW 10/7/97)							
API Code	300390810000	Field Code	676398740				
TD	8390.0 ftKB	Basin	SAN JUAN BASIN				
PBTD	8010.0 ftKB	Basin Code	580				
State	New Mexico	Permit	17-Sep-66				
County	Rio Arriba	Spud	17-Sep-66				
District	San Juan O.U.	Finish Drl	21-Oct-66				
Permit No.		Completion	07-Nov-66				
TD Measured	8390	Abandon					
Reservoir	Pictured Cliffs						
Field	TAPACITO PC						
Location							
Meridian	NM	Top Latitude	36.36844				
Twntship	26N	Top Longitude	107.2879				
Range	3W	Top NS Distance	1850.0 ft N				
Section	31	Top EW Distance	825.0 ft E				
Quarter	NE SE	Bottom Latitude	0				
		Bottom Longitude	0				
		Btm NS Distance	0.0 ft				
		Btm EW Distance	0.0 ft				
Elevations							
KB	7258.0 ft	Cas Fing	0.0 ft				
Grd	7246.0 ft	Tub Head	0.0 ft				
KB-Grd	12.0 ft						
Bore Hole Data							
	Depth (ftKB)		Size (in)				
	316.0		15.0000				
	8390.0		7.8750				
Casing String - Surface Casing							
Item (in)	Btm (ftKB)	Jnts	ID	Wt	Grd	Thd	Comments
10.7500 in Casing	316.0	10	10.0500	40.50	H-40	ST&C	
Casing String - Production Casing							
Item (in)	Btm (ftKB)	Jnts	ID	Wt	Grd	Thd	Comments
5.5000 in Casing	1450.0	45	4.9500	15.50	J-55	LT&C	
5.5000 in Casing	6820.0	167	4.9500	15.50	J-55	ST&C	
5.5000 in Casing	8375.0	48	4.8900	17.00	J-55	ST&C	
Casing Cement							
Casing String	Top (ftKB)	Amount (sx)	Comments				
Surface Casing	0.0	300	Cement circ				
Production Casing	766.0	467	TOC by est DV @ 3998'				
Production Casing	5300.0	333	TOC by est DV @ 6152'				
Production Casing	6550.0	333	TOC by est				
Other (plugs, equip., etc.) - Plug Backs							
Date	Item		Int (ftKB)	Comments			
06-Nov-66	Cement Plug		8010.0 - 8020.0				
06-Nov-66	C.I.B.P.		8020.0 - 8023.0	5 1/2 " Baker Perm Model "N" BP. Isolate Dakota Interval			
28-Oct-66	Cement Plug		8353.0 - 8375.0				
Perforations							
Date	Int	Shots (/ft)	Comments				
29-Oct-66	8250.0 - 8342.0	2.0	@ 8250-62', 8268-76', 8332-42'				
30-Oct-66	8100.0 - 8230.0	2.0	@ 8100-07', 8110-18', 8212-21', 8225-8230'				
31-Oct-66	3863.0 - 3890.0	1.0					
Stimulations & Treatments							
Date	Type	Zone	Int	Fluid	Comments		
29-Oct-66	Fracture	Lwr Dakota	8230.0 - 8342.0	Water	Spearhead w/ 500 G 7 1/2% HCL. Frac w/ 53,130 G 0.8% KCL w/ add. + 40,000# 20/40 + 10,000# 10/20 sd. AIR= 57 bpm @ 3300#. ISIP 2200#		
30-Oct-66	Fracture	Upr Dakota	8100.0 - 8230.0	Water	Spearhead w/ 500 G 7 1/2% HCL. Frac w/ 56,070 G 0.8% KCL w/ add. + 30,000# 20/40 + 20,000# 10/20 sd. AIR= 54 bpm @ 2800#. ISIP 2100#		
01-Nov-66	Fracture	Pictured Cliffs	3863.0 - 3890.0	Water	Frac w/ 35,742 G 0.8% KCL + 50,000# 10/20 sd. AIR= 68 bpm @ 1500#. ISIP 100#		

JICARILLA D 10 (LFW 10/7/97)

Tubing String - Primary Tubing								
Item (in)	Top (ftKB)	Len (ft)	Jnts	ID (in)	Wt	Grd	Thd	Comments
1.9016 in Tubing	0.0	3849.0	118	1.6102	2.76	JCW		4/22/94: W/O showed 1 1/2" tbg POOH, Run Hot Oiler, no information on tbg RIH, assumming same string was RIH.
1.9016 in Seating Nipple	3849.0	1.0		1.6102	0.00	JCW		
1.9016 in Perf Tubing	3850.0	30.0	1	1.6102	2.76	JCW		Land @ 3880'
Formation/Horizon Tops								
Top (ftKB)		Formation						
3555.0		Ojo Alamo						
3855.0		Pictured Cliffs						
5520.0		Cliffhouse						
5997.0		Point Lookout						
7029.0		Gallup						
8050.0		Greenhorn						
8080.0		Dakota						
Logs Run								
Date	Type	Int	Company		Comments			
19-Oct-66	IND	312.0 - 3348.0	Schlumberger					
20-Oct-66	DEN	3750.0 - 8347.0	Schlumberger					
28-Oct-66	GR-CBL	2700.0 - 8351.0	PGAS					
General Notes								
Date	Note							
14-Nov-66	Initial Potential: PC F 1500 MCFPD on 3/4" choke. CAOF 2525 MCFPD TP 117 CP 386 SICP 576							

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

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

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 30-039-08100		2 Pool Code 72319	3 Pool Name Blanco Mesaverde	
4 Property Code 18021	5 Property Name Jicarilla D			6 Well Number #10
7 OGRID No. 005073	8 Operator Name Conoco Inc., 10 Desta Drive, Ste. 100W, Midland, TX 79705-4500			9 Elevation 7225' GL

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
H	31	26N	3W		1850	North	825	East	Rio Arriba

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 1dn	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

16		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Kay Maddox Signature Printed Name Kay Maddox Title Regulatory Agent Date Dec 9, 1997
		18 SURVEYOR CERTIFICATION <i>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.</i> Date of Survey Signature and Seal of Professional Surveyor: Certificate Number

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACERAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section

Operator SOUTHERN UNION PRODUCTION COMPANY		Lease JICARILLA "D"		Well No 10	
Unit Letter H	Section 31	Township 26 NORTH	Range 3 WEST	County RIO ARriba	
Actual Footage Location of Well: 1850 feet from the NORTH line and 825 feet from the EAST line Ground Level Elev 7225.0 Producing Formation Dakota Pictured Cliffs Pool Basin Dakota Tapesito Pictured Cliffs Dedicated Average 180 Acres					

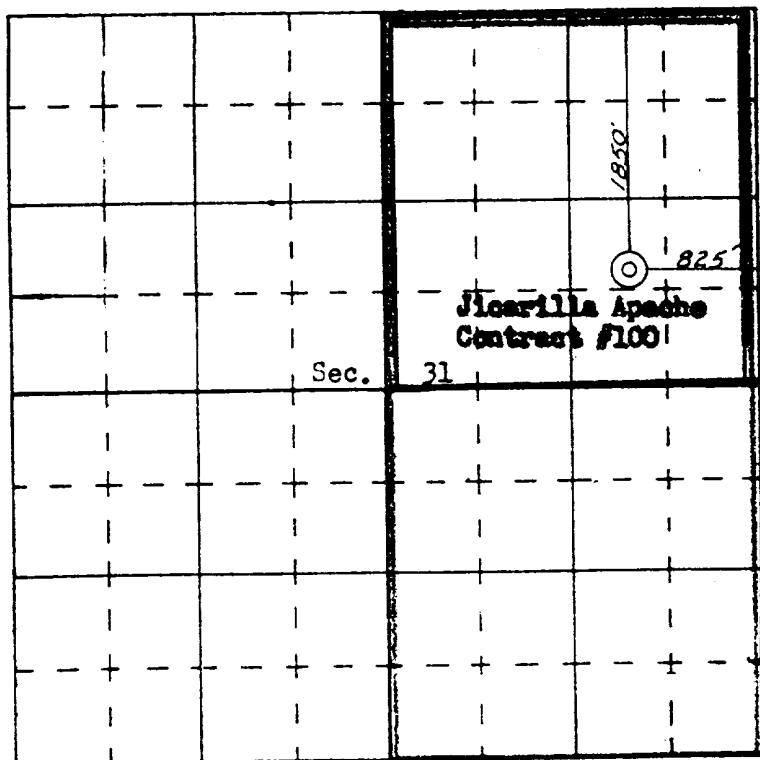
- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated 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 Communitization

If answer is "no," list the owners and tract descriptions which have actually 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.

——— **Dakota Dedicated Acreage**
 ——— **Pictured Cliffs Dedicated Acreage**



SCALE—4 INCHES EQUALS 1 MILE

SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.

CERTIFICATION

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

Original signed by
GILBERT D. NOLAND, JR.

Name

Gilbert D. Noland, Jr.

Position

Drilling Superintendent

Company

Southern Union Production Co.

Date

September 13, 1966

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 **September 13, 1966**

Registered Professional Engineer
 or Land Surveyor

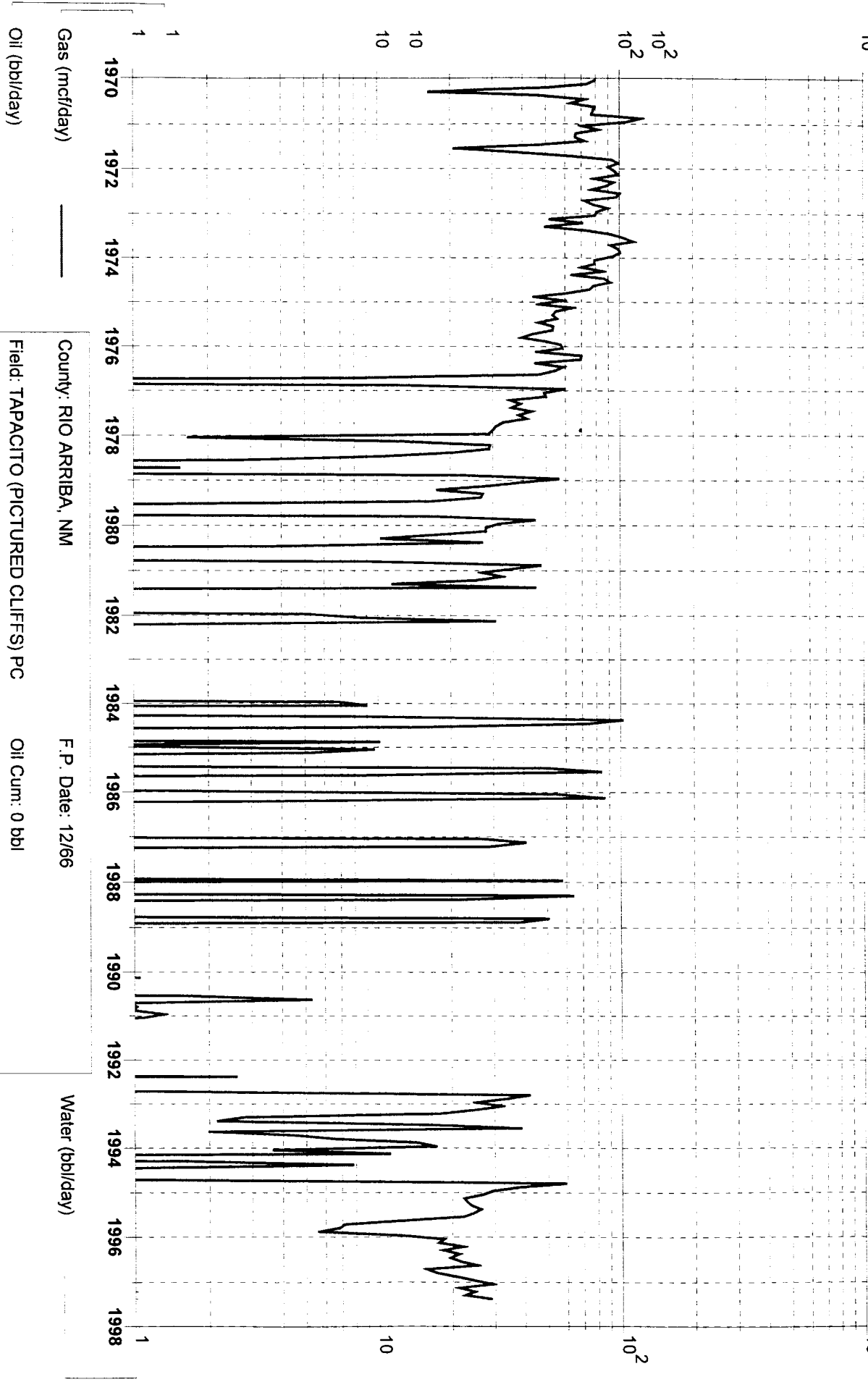
Certificate No. **1483**

Dwights

Lease: JICARILLA D (10)

11/14/97

Retrieval Code: 251,039,26N03W31H00PC



Gas (mcf/day)

Oil (bbl/day)

County: RIO ARRIBA, NM

Field: TAPACITO (PICTURED CLIFFS) PC

Reservoir: PICTURED CLIFFS

Operator: CONOCO INC

F.P. Date: 12/66

Oil Cum: 0 bbl

Gas Cum: 372.4 mmcf

Location: 31H 26N 3W

Water (bbl/day)

Conoco, Inc.
Jicarilla D #10
Section 31, T-26-N, R-3-W, H
Rio Arriba County, New Mexico

Re: Application for Downhole Commingling

Offset Operators:

Burlington Resources
PO Box 4289
Farmington, New Mexico 87499

Dugan Production Corp.
PO Box 420
Farmington, New Mexico 87499-0420

Beartooth Oil & Gas Co
PO Box 2564
Billings, Montana 59103

John E. Schalk
PO Box 25825
Albuquerque, New Mexico 87125

Minel Inc
309 Washington SE
Albuquerque, New Mexico 87108