

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

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

YES NO

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	a (Current)	a.	a.
Oil Zones - Artificial Lift: Estimated Current	352		704
Gas & Oil - Flowing: Measured Current	b(Original)	b.	b.
All Gas Zones: Estimated Or Measured Original	1178		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	Date Rates	Date Rates:	Date Rates
Note For new zones with no production history applicant shall be required to attach production estimates and supporting data			
• 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) _____

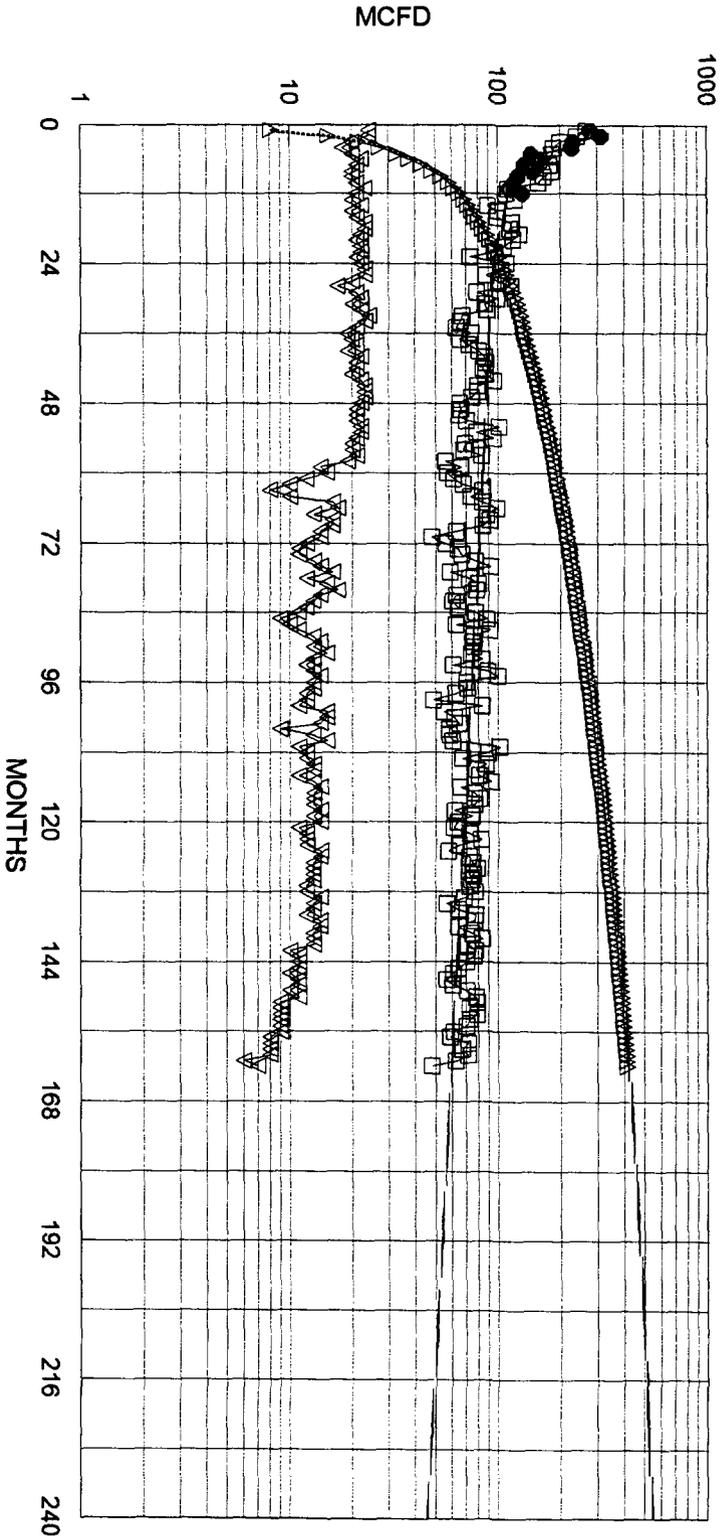
16. ATTACHMENTS

- * 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

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 Jc. D 10 ; 31-26-3

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 30-039-08100		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 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.
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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	
					Signature: <i>Kay Maddox</i> Printed Name: Kay Maddox	
					Title: Regulatory Agent Date: Dec 9, 1997	
					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				

**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 Toposite Pictured Cliffs	Dedicated Average 180 160		Acres		

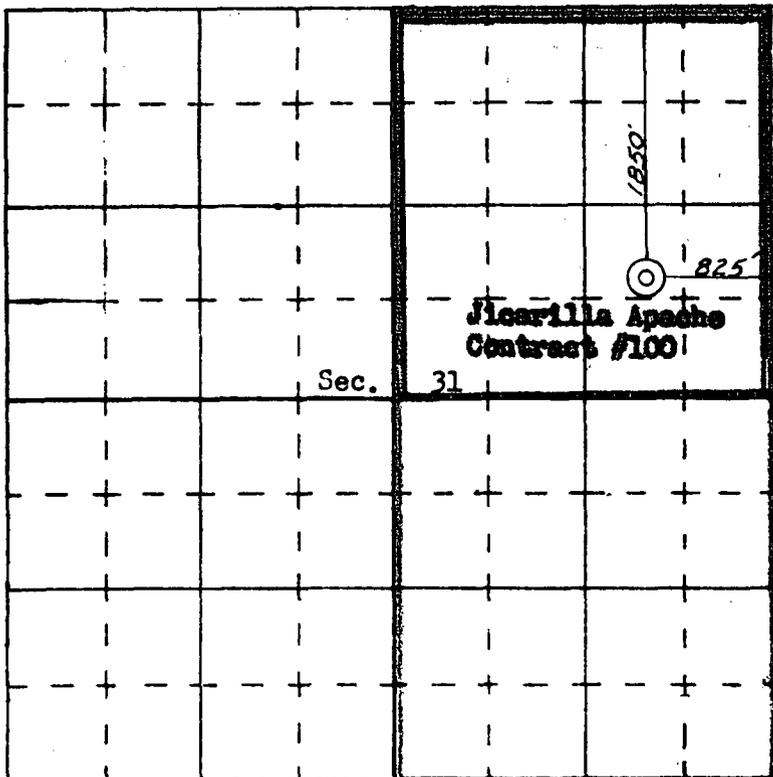
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is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

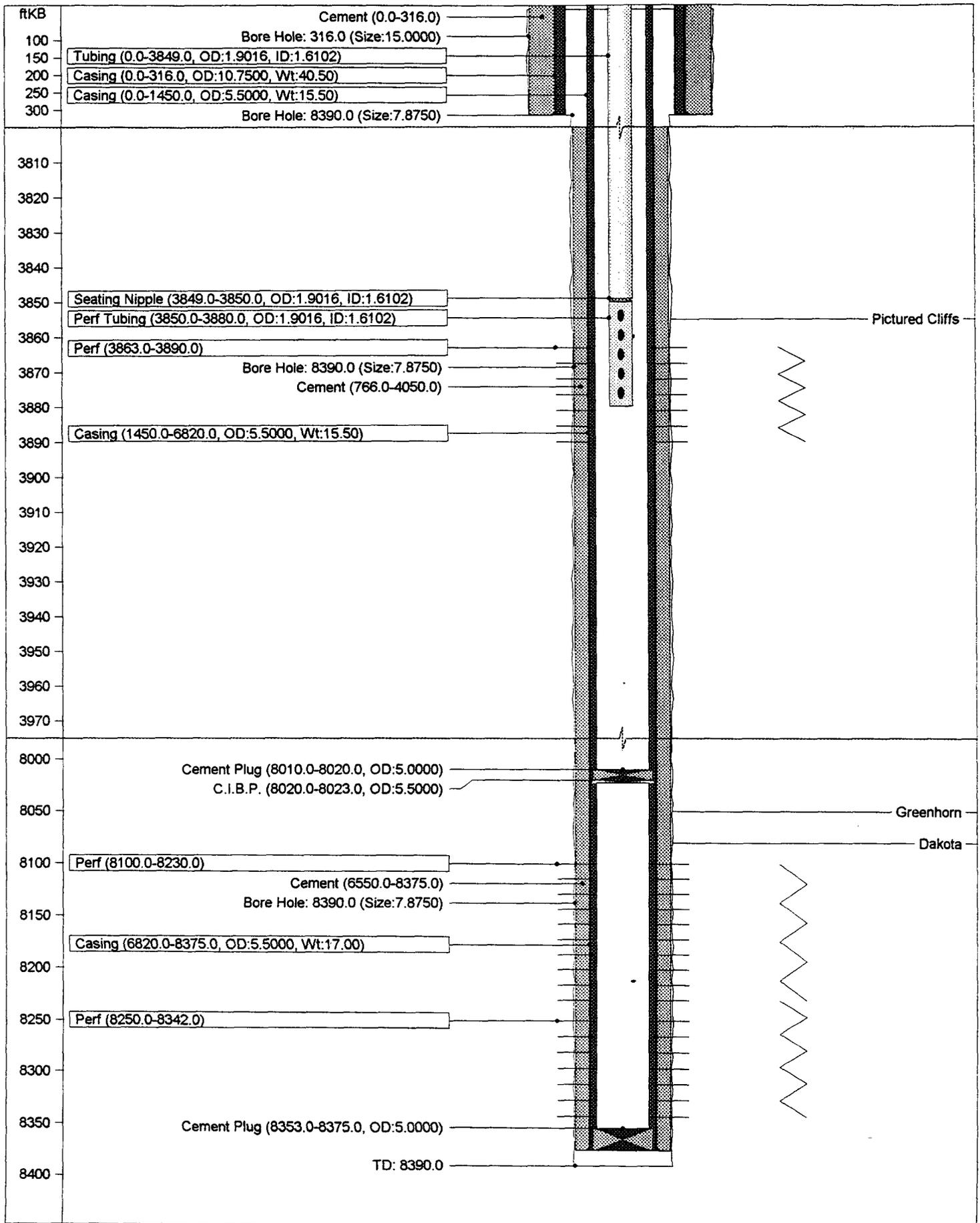
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Signed **September 13, 1966**

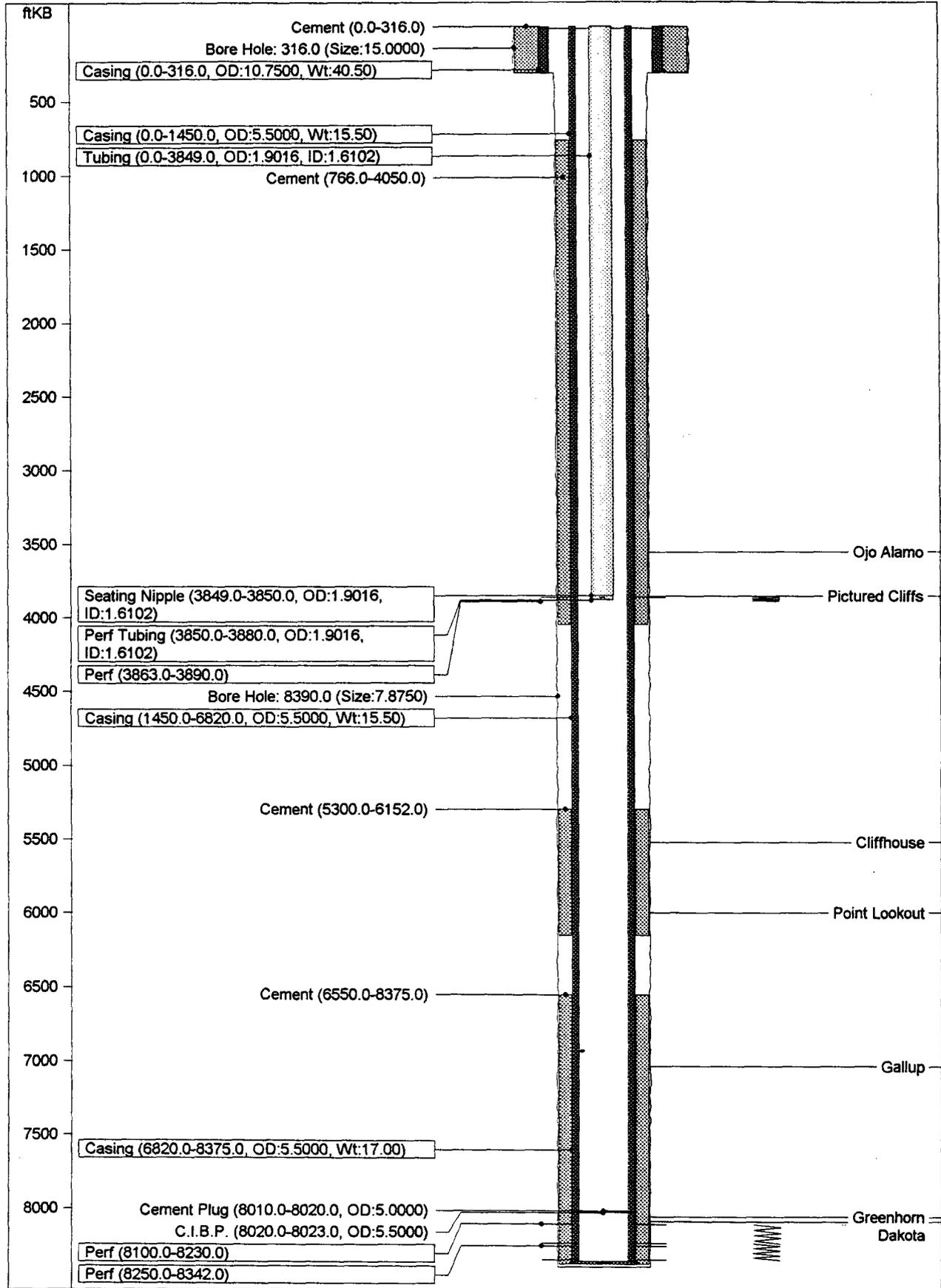
Registered Professional Engineer
for Field Surveys

Certificate No. **1283**

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
Township	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 Flng	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)

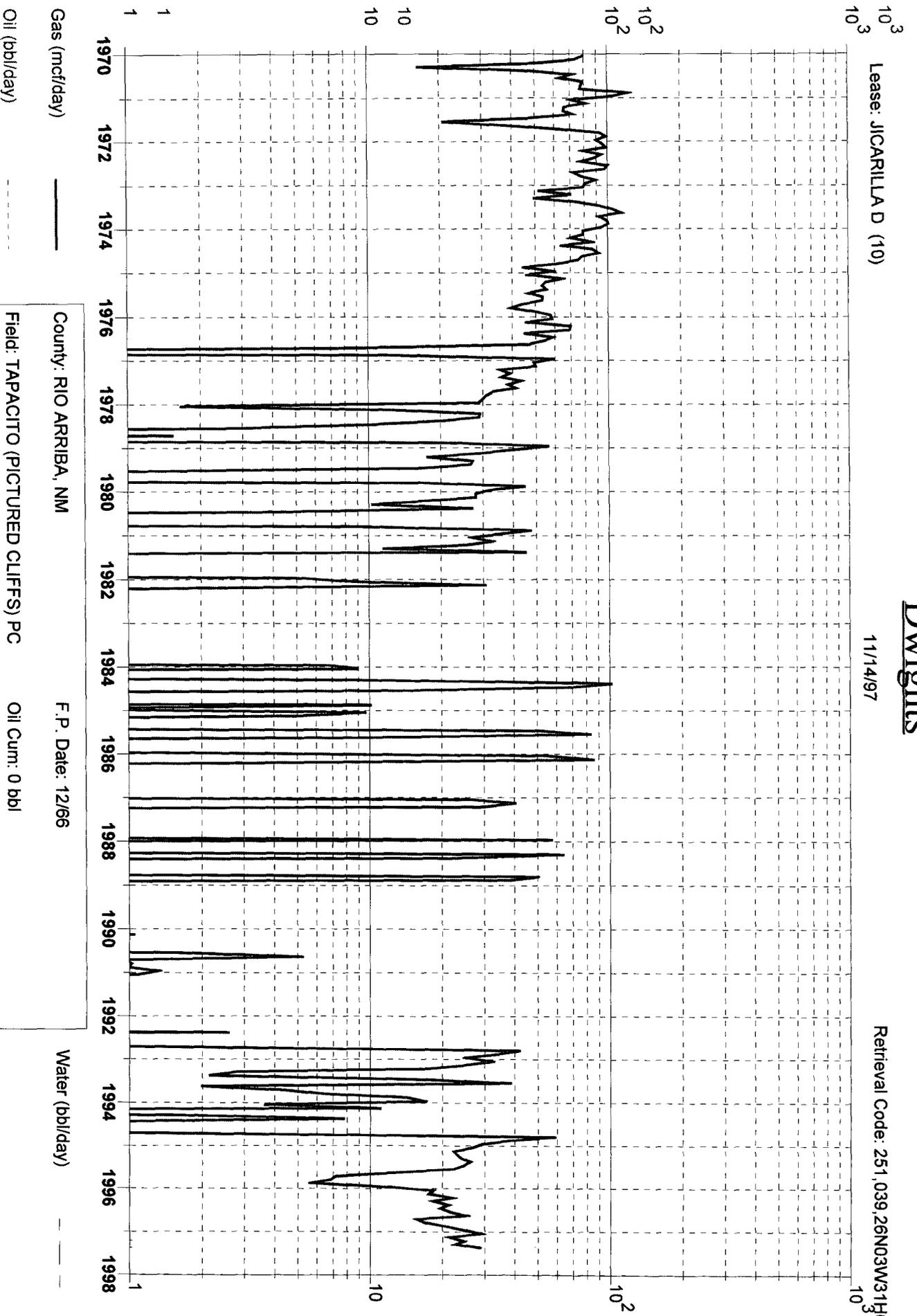
Tubing String - Primary Tubing								
Item (in)	Top (ftKB)	Len (ft)	Jnts	ID (in)	Wt	Grd	Thd	Comments
1.9016 in Tubing	0.0	3849.0	118	1.6102	2.76	JCW		4/22/94: W/O showed 1 1/2" tbg POOH, Run Hot Oiler, no information on tbg RIH, assuming same string was RIH.
1.9016 in Seating Nipple	3849.0	1.0		1.6102	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							

Dwights

Lease: JICARILLA D (10)

11/14/97

Retrieval Code: 251,039,26N03W31H00PC



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

**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