

DATE IN 12/15/97	SUSPENSE 1/5/98	ENGINEER DC	LOGGED BY MW	TYPE DHC
------------------	-----------------	-------------	--------------	----------

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

Application Acronyms:

[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
 [DD-Directional Drilling] [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] 1786
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Directional Drilling

☐ NSL ☐ NSP ☐ DD ☐ SD

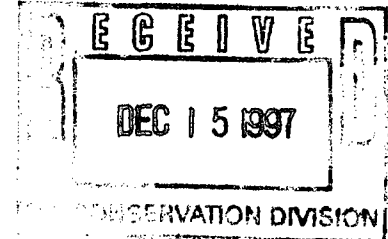
Check One Only for [B] and [C]

[B] Commingling - Storage - Measurement

☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR



[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO

U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

Kay Maddox
 Print or Type Name

Kay Maddox
 Signature

Regulatory Agent
 Title

12/10/97
 Date

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 87505-6429

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

APPROVAL PROCESS:
☒ Administrative ☐ Hearing

EXISTING WELLBORE
☒ YES ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING

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

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

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) _____

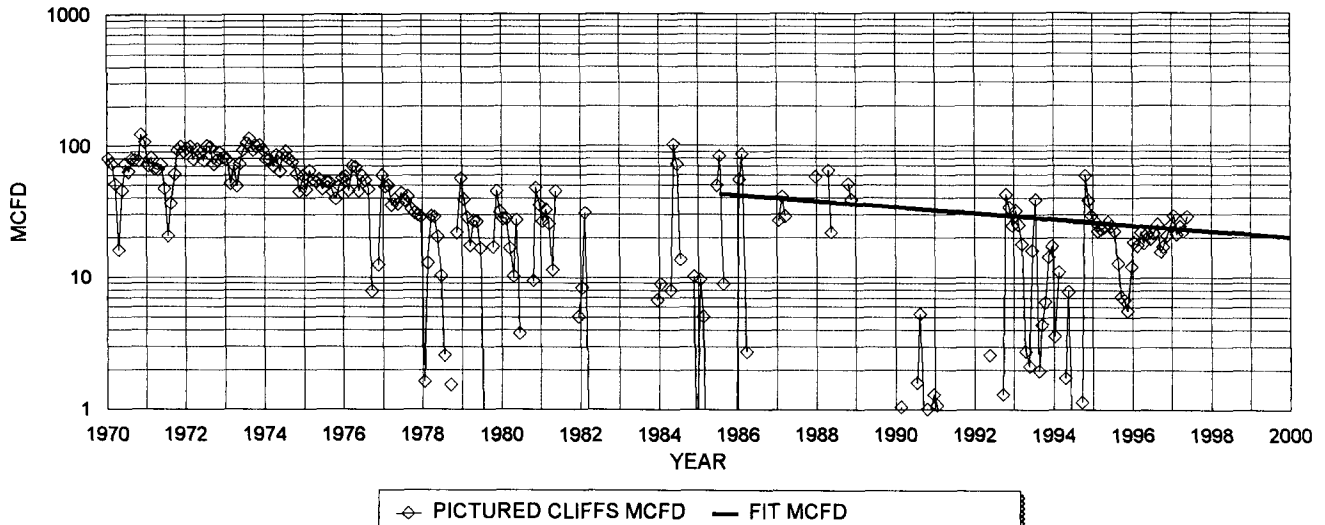
16. ATTACHMENTS

- * 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

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

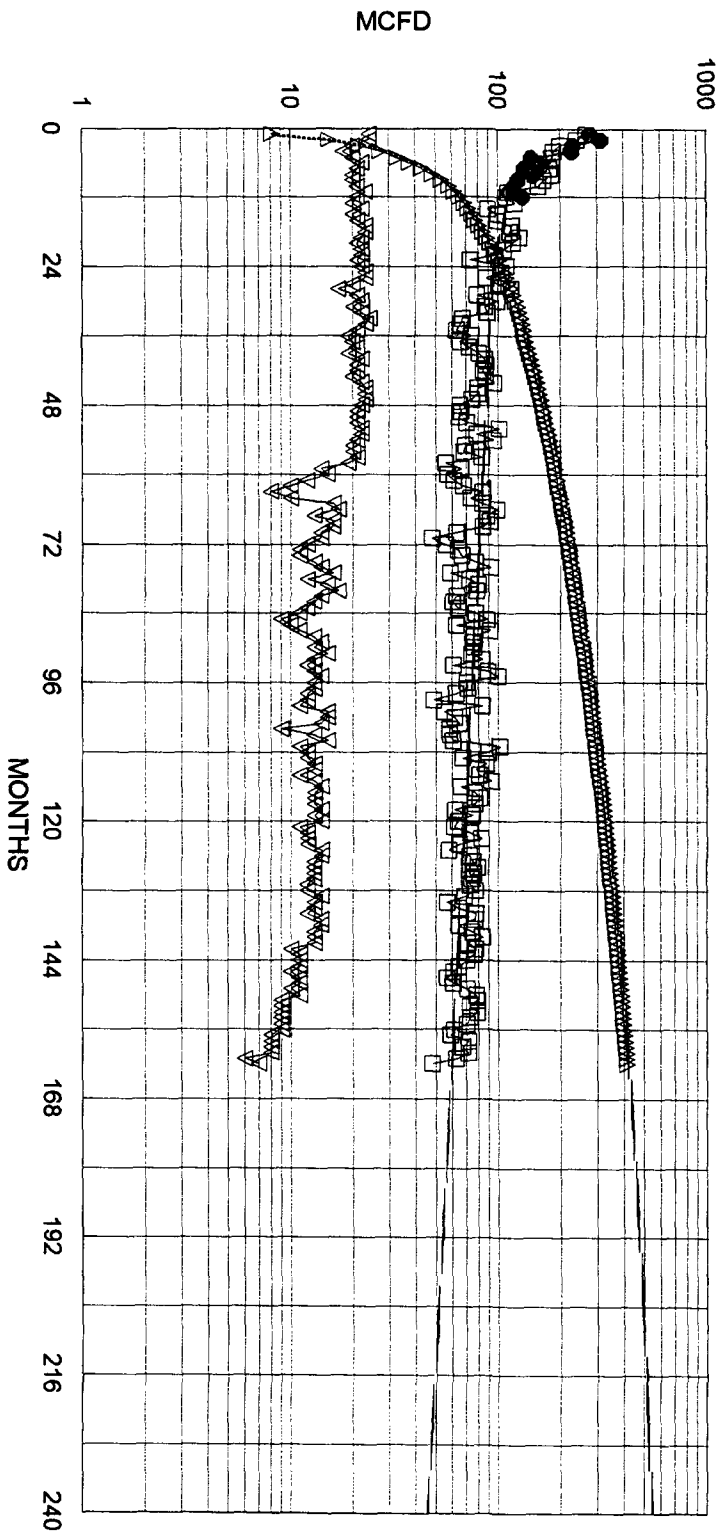


HISTORICAL DATA:		1ST PROD: 12/66	PROJECTED DATA	
OIL CUM:	0.00	MBO	2/1/98 Qi:	22 MCFD
GAS CUM:	372	MMCF	DECLINE RATE:	5.1% (EXPONENTIAL)
CUM OIL YIELD	0.0000	BBL/MCF		
OIL YIELD:	0.0000	BBL/MCF, LAST 3 YRS		
AVG. USED:	0.0000	BBL/MCF		

PRODUCTION FORECAST FOR SUBTRACTION METHOD COMMINGLE ALLOCATION

YEAR	MID-YEAR	MID-YEAR
	AVG. MCFD	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



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 1K.D 10 ; 31-26-3

District 1
PO Box 1980, Hobbs, NM 88241-1980

State of New Mexico
Energy, Minerals & Natural Resources Department

Revised February 21, 1994

District II
PO Drawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION

District III
1000 Rio Brazos Rd. Aztec, NM 87410

PO Box 2088
Santa Fe, NM 87504-2088

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

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	13 Joint or Infill	14 Consolidation Code	15 Order No.
320			

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 <div><div></div><div>Signature</div></div> <div><div>Kay Maddox</div><div>Printed Name</div></div> <div><div>Regulatory Agent</div><div>Title</div></div> <div><div>Dec 9, 1997</div><div>Date</div></div>
						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. <div><div>Date of Survey</div><div>Signature and Seal of Professional Surveyor</div></div> <div><div>Certificate Number</div></div>

**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: <div style="display: flex; justify-content: space-between;"> 1850 feet from the NORTH line and 825 feet from the EAST line </div>							
Ground Level Elev. 7225.0	Producing Formation Dakota Pictured Cliffs		Pool Basin Dakota Topasite Pictured Cliffs	Dedicated Acreage 180		Acres 180	

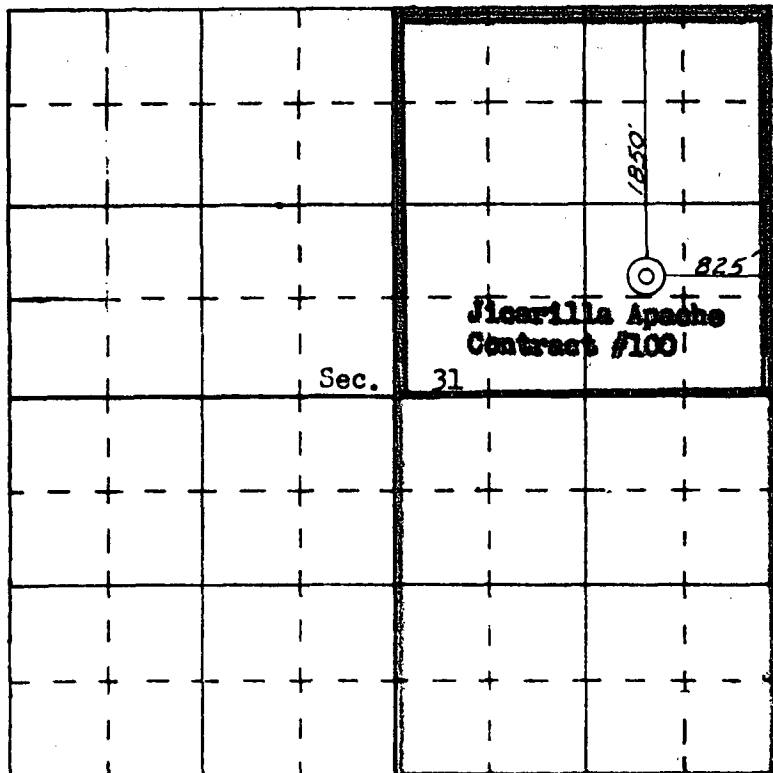
1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is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

(☒) Yes () No If answer is "yes," type of consolidation **Communization**

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 communization, 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

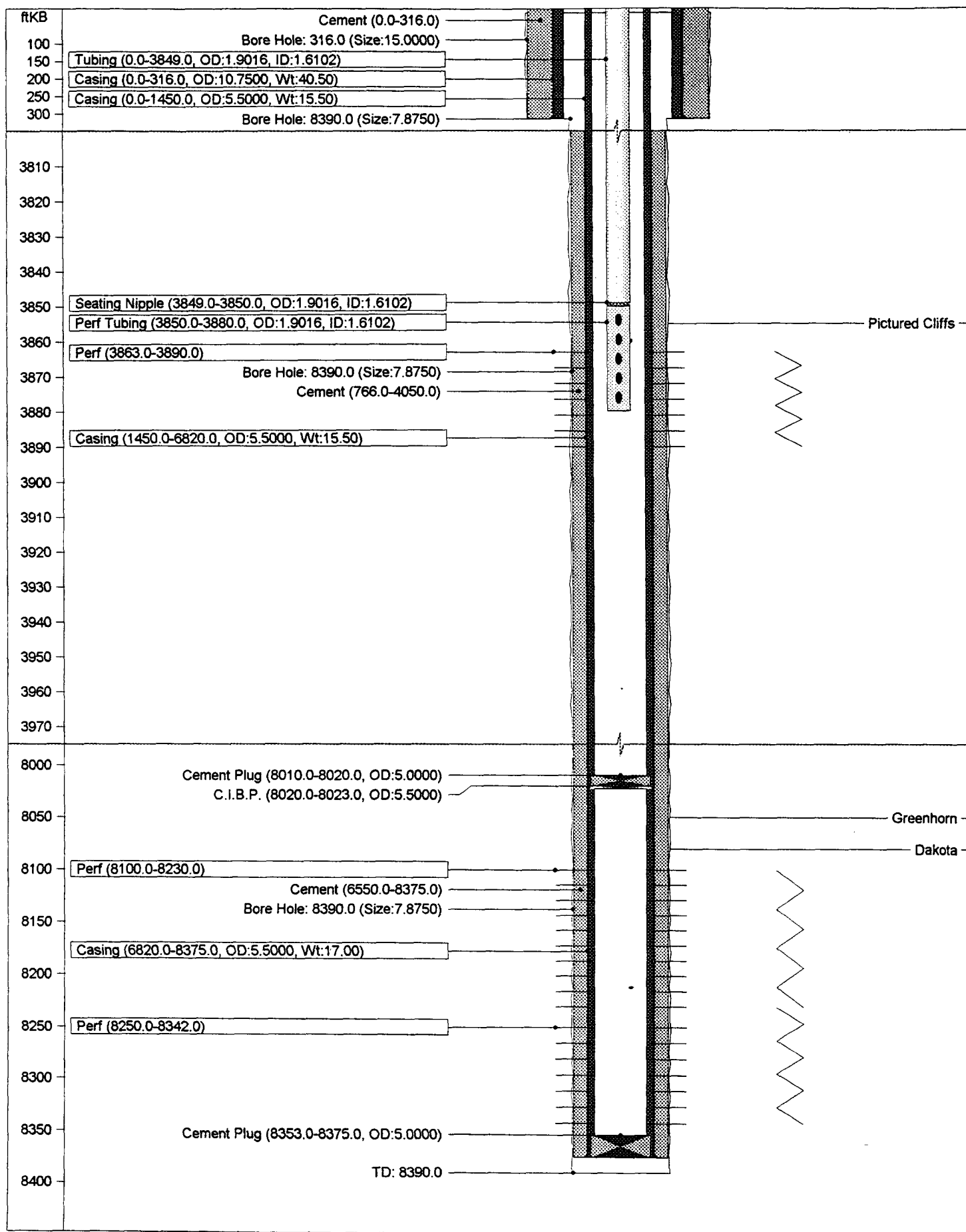
Southern Union Production Co.

Date
September 13, 1966

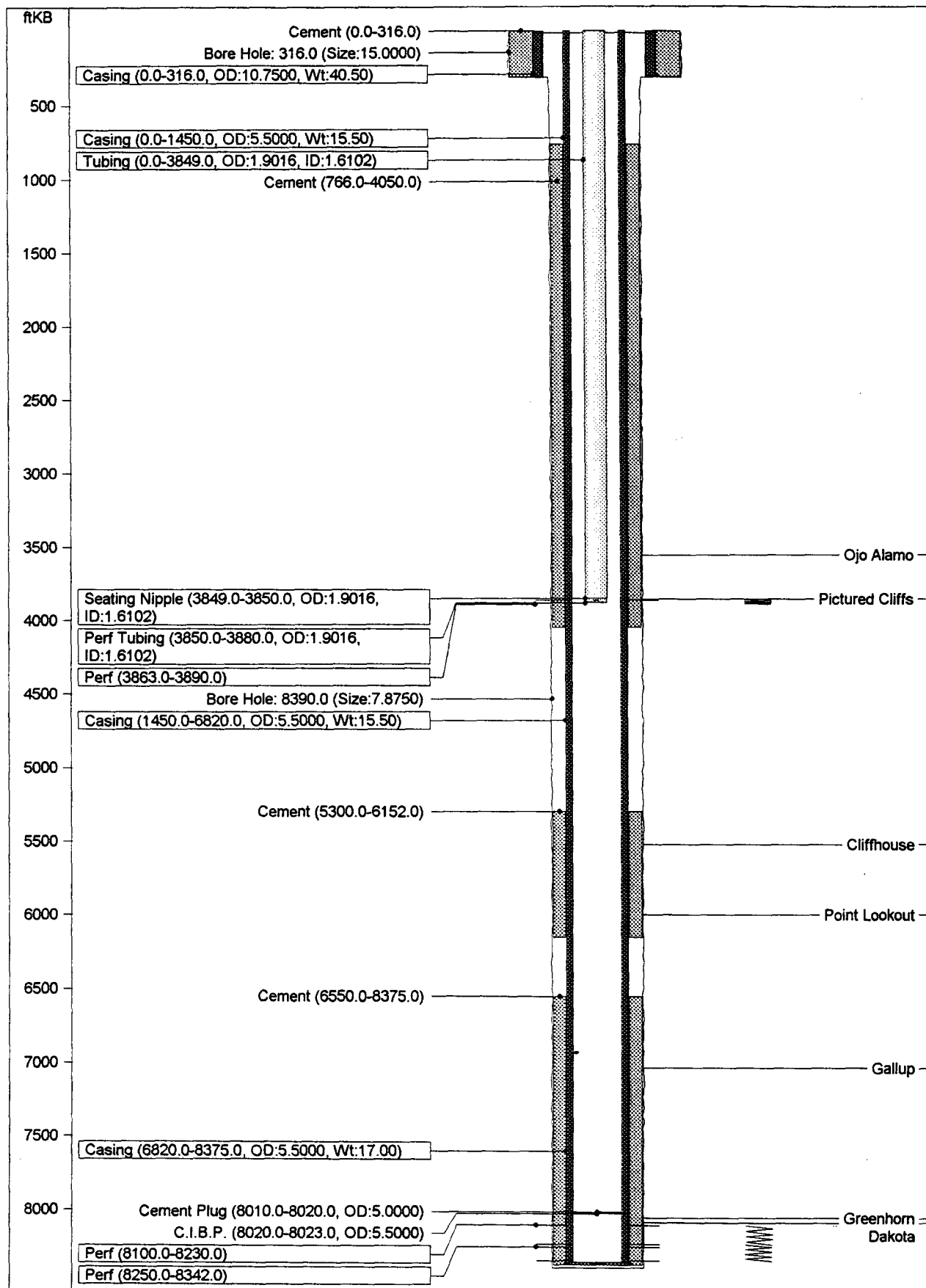
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date **September 13, 1966**
 Registered Professional Engineer
 or Land Surveyor
 Certificate No. **1083**
NEW MEXICO

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 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)

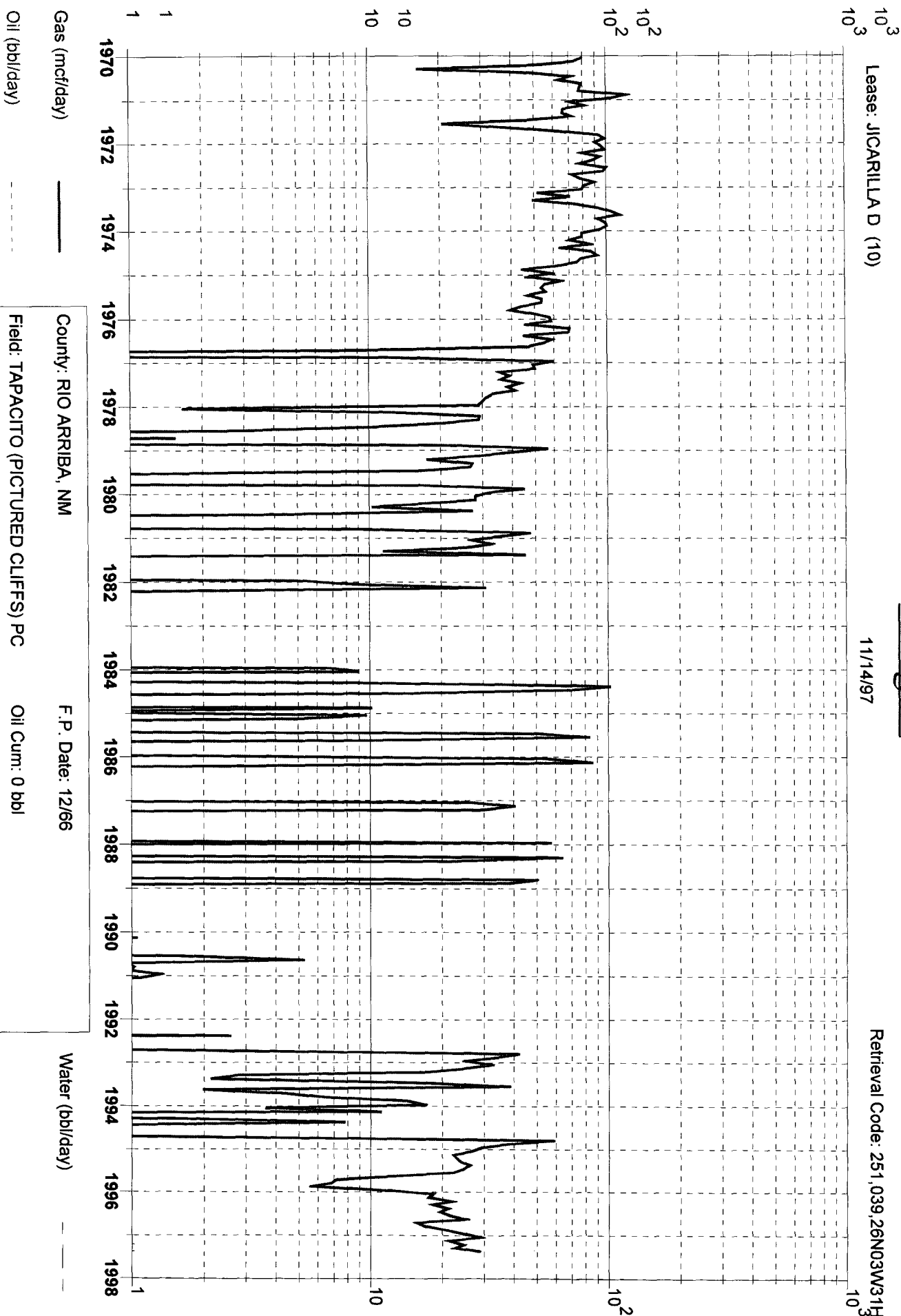
Tubing String - Primary Tubing								
Item (in)	Top (ftKB)	Len (ft)	Jnts	ID (in)	Wt	Grd	Thd	Comments
1.9016 in Tubing	0.0	3849.0	118	1.6102	2.76	JCW		4/22/94: W/O showed 1 1/2" tbg POOH, Run Hot Oiler, no information on tbg RIH, assuming same string was RIH.
1.9016 in Seating Nipple	3849.0	1.0		1.6102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



Gas (mcf/day)

County: RIO ARriba, NM

F.P. Date: 12/66

Water (bbl/day)

Oil (bbl/day)

Field: TAPACITO (PICTURED CLIFFS) PC

Oil Cum: 0 bbl

Reservoir: PICTURED CLIFFS

Gas Cum: 372.4 mmcf

Operator: CONOCO INC

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