

DATE IN 6/20/97	SUSPENSE 7/10/97	ENGINEER DC	LOGGED BY RW	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]
 [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

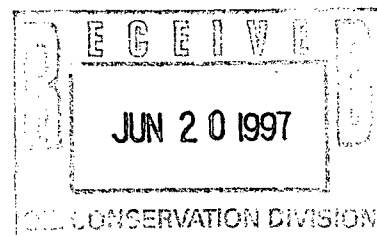
Check One Only for [B] and [C]

[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.

Jerry W. Hoover
Print or Type Name

Jerry W. Hoover
Signature

Sr. Conservation Coordinator 6-13-97
Title 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 87505-6429Form 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 E

12

K-22-T-26N-R4W

Rio Arriba

Lease

Well No

Unit Ltr Sec Twp Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 005073 Property Code 18022 API NO. 30039-21515 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	Pictured Cliff 85920		Mesa Verde 72319
2. TOP and Bottom of Pay Section (Perforations)	3688' - 3700'		5850' - 5956'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottom hole Pressure	a. (Current)	a.	a.
Oil Zones - Artificial Lift: Estimated Current	298 PSIA		482 PSIA
Gas & Oil - Flowing: Measured Current	b. (Original)	b.	b.
All Gas Zones: Estimated Or Measured Original	1208 PSIA		1461 PSIA
6. Oil Gravity (*API) or Gas BTU Content	1249 - BTU		1263 - BTU
7. Producing or Shut-In?	Producing		Producing
Production Marginal? (yes or no)	Yes		Yes
• 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, give date and oil/gas/water rates of recent test (within 60 days)	Date Rates Est. 7/1/97 41 MCFD, 0 BOPD 0 BWPD	Date Rates	Date Rates Est. 7/1/97 7 MCFD, 0.1 BOPD 0 BWPD
8. Fixed Percentage Allocation Formula -% for each zone	oil: 0 % Gas 85 %	oil: % Gas %	oil: 100 % Gas 15 %

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 ☐ No11. 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 ☐ No13. 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 Jerry W. Hoover TITLE Sr. Conservation Coord. DATE 6/13/97TYPE OR PRINT NAME Jerry W. Hoover TELEPHONE NO. (915) 686-6548

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACERAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section

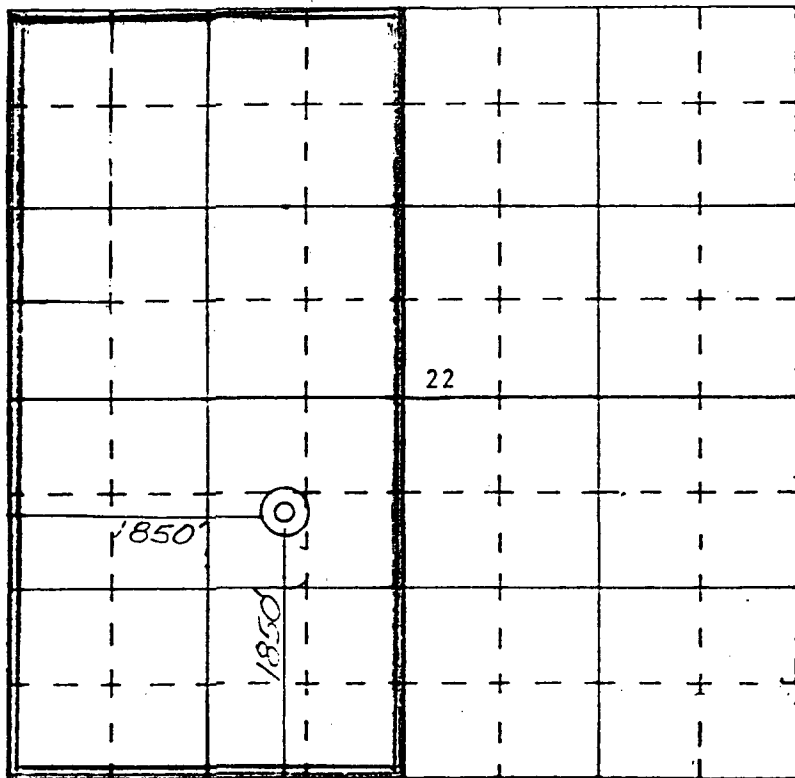
Operator SUPRON ENERGY CORPORATION			Lease JICARILLA "E"		Well No 12
Unit Letter K	Section 22	Township 26 NORTH	Range 4 WEST	County RIO ARRIBA	
Actual Footage Location of Well: 1850 feet from the SOUTH line and 1850 feet from the WEST line					
Ground Level Elev. 7061	Producing Formation DAKOTA Mesaverde		Pool Blanco BASIN		Dedicated Acreage: 320 - 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 _____

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.

____ Mesaverde
 ____ Dakota



SCALE—4 INCHES EQUALS 1 MILE

CERTIFICATION

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

Rudy D. Motto
 Name **Rudy D. Motto**

Position **Area Superintendent**

Company **Supron Energy Corporation**

Date **Oct. 11, 1977** NO. **1463**

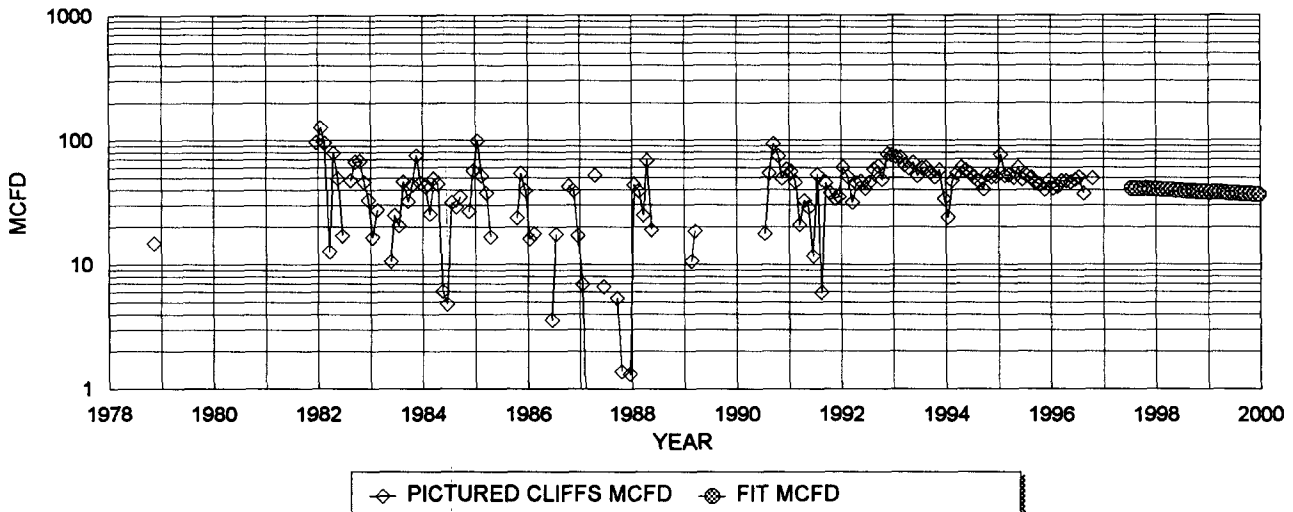
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

22 September, 1977
 Date Surveyed

James P. Leese
 Registered Professional Engineer
 and/or Land Surveyor
James P. Leese

1463
 Certificate No.

**JICARILLA E 12 PICTURED CLIFFS PRODUCTION
SECTION 22K-26N-04W**



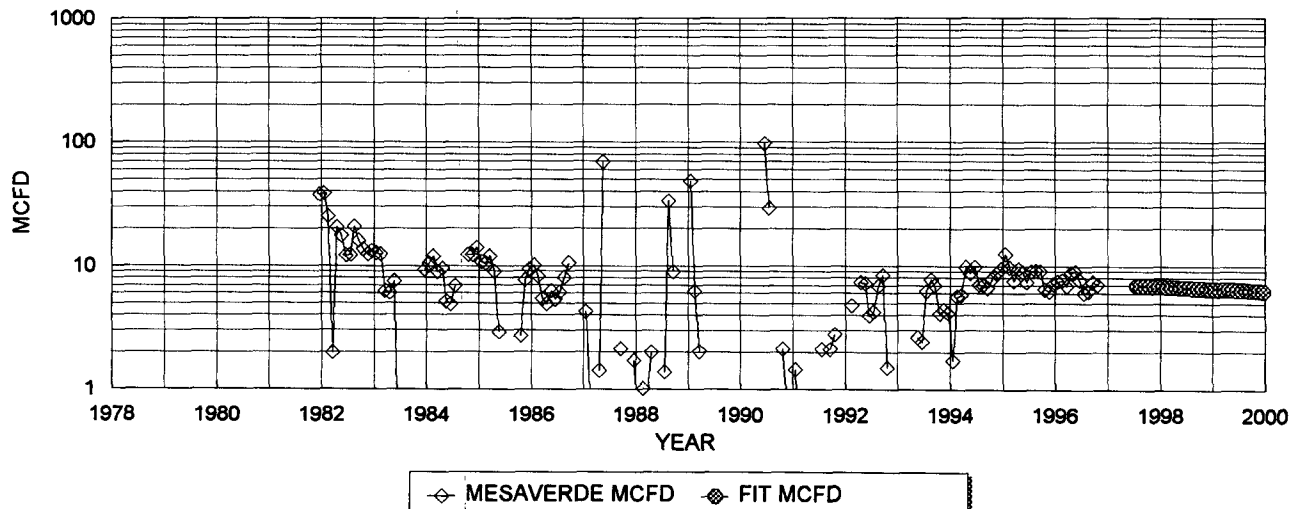
PICTURED CLIFFS HISTORICAL DATA 1ST PROD: 11/78

OIL CUM: 0.00 MBO
GAS CUM: 180.3 MMCF
OIL YIELD: 0.0000 BBL/MCF

PICTURED CLIFFS PROJECTED DATA

7/1/97 Q1: 41 MCFD
DECLINE RATE: 4.5% (EXPONENTIAL)

**JICARILLA E 12 MESAVERDE PRODUCTION
SECTION 22K-26N-04W**



MESAVERDE HISTORICAL DATA 1ST PROD: 12/81

OIL CUM: 0.5 MBO
GAS CUM: 36.2 MMCF
OIL YIELD: 0.0146 BBL/MCF

MESAVERDE PROJECTED DATA

7/1/97 Q1: 7 MCFD
DECLINE RATE: 4.5% (EXPONENTIAL)

FIXED COMMINGLE ALLOCATION FACTORS:

	GAS	OIL
PICTURED CLIF	85%	0%
MESAVERDE	15%	100%

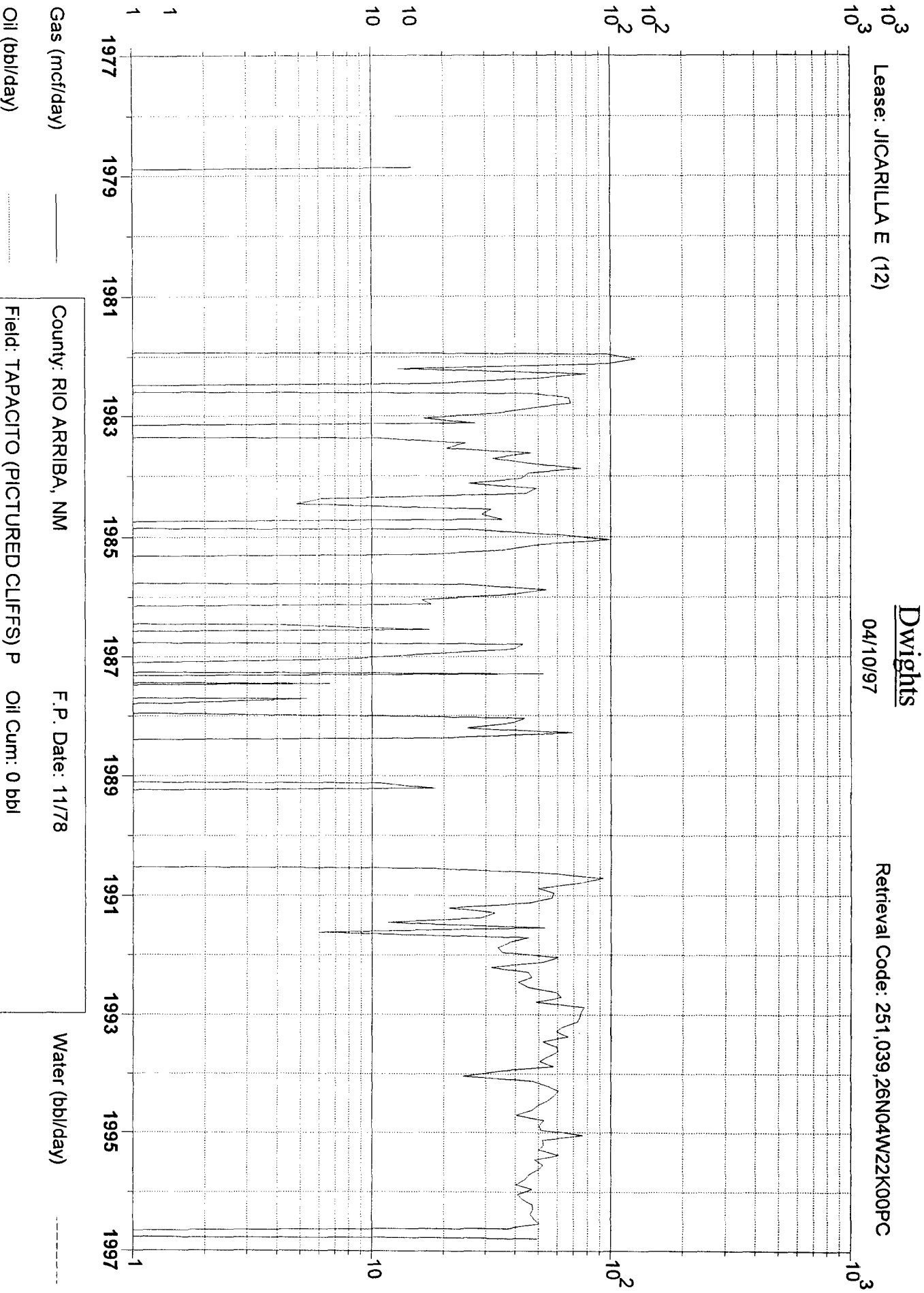
GAS ALLOCATION BASED ON PROJECTED 1997 RATES
OIL ALLOCATION BASED ON WEIGHTED CUM OIL YIELDS

NOTE: ALL PRODUCTION DATA FROM DWIGHTS ENERGYDATA

Lease: JICARILLA E (12)

Dwights
04/10/97

Retrieval Code: 251,039,26N04W22K00PC



County: RIO ARriba, NM

F.P. Date: 11/78

Field: TAPACITO (PICTURED CLIFFS) P

Oil Cum: 0 bbl

Reservoir: PICTURED CLIFFS

Gas Cum: 180.3 mmcf

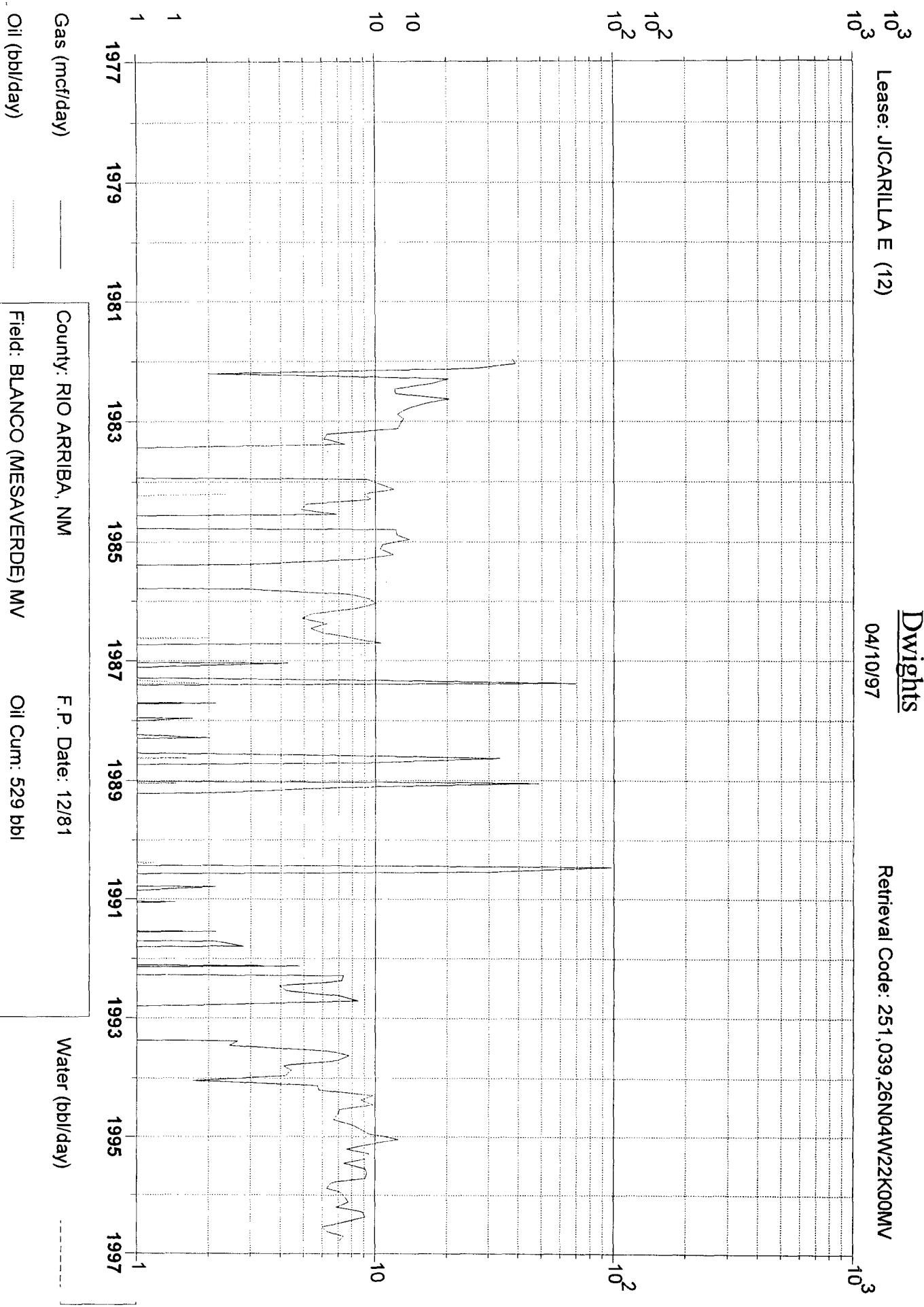
Operator: CONOCO INC

Location: 22K 26N 4W

Lease: JICARILLA E (12)

Dwights
04/10/97

Retrieval Code: 251,039,26N04W22K00MV



County: RIO ARRIBA, NM F.P. Date: 12/81

Field: BLANCO (MESAVERDE) MV Oil Cum: 529 bbl

Reservoir: MESAVERDE Gas Cum: 36.20 mmcf

Operator: CONOCO INC Location: 22K 26N 4W

JICARILLA E #12

OFFSET OPERATORS

CONOCO, INC.
SOUTHERN UNION EX

16

CONOCO, INC.

15

CONOCO, INC.
MERIT ENERGY CORP

14

CONOCO, INC.
SUPRON ENERGY CO

21

CONOCO, INC.

22

CONOCO, INC.

23

BURLINGTON RES.

28

BURLINGTON RES.

27

CONOCO, INC.
SNYDER OIL CORP
SUPRON ENERGY CO

26

Township 26N --- Range 4W

Conoco, Inc.
Form C-107-A, Application for Downhole Commingling
Filing date: June 13, 1997

Offset Operators for Wells as listed below:

Jicarilla K, Well #11
Marathon Oil Co.
Burlington Resources
Amoco Production Co.

Jicarilla K, Well #17
Burlinton Resources
Amoco Production

Jicarilla K, Well #16
Burlington Resources
Amoco Production

Newsom, Well #17E
Amoco Production
~~Snyder Oil Co.~~
~~Robert R. Click~~

Jicarilla K, Well #15E
Burlington Resources

Jicarilla E, Well #10
Burlington Resources

Jicarilla E, Well #12
Burlington Resources

Federal, Well #13E
Burlington Resources
Caulkins Oil Co.

AXI Apache J, Well #18A
Amoco Production
Elm Ridge Resources

Federal, Well #11E
Caulkins Oil Co.
Amoco Production
Burlington Resources

Reames COM, Well #2
Caulkins Oil Co.
Burlington Resources

Conoco, Inc.
Form C-107-A, Application for Downhole Commingling
Filing Date: June 13, 1997
Address List for Offset Operators

RE: Jicarilla K, Well #11, Jacarilla K, Well #17, Jicarilla K, Well #16, Newsom, Well #17E, Jicarilla K, Well #15E, Jicarilla E, Well #10, Jicarilla E, Well #12, Federal, Well 313E, AXI Apache J, Well #18A, Federal, Well #11E, Reames COM, Well #2

Marathon Oil Co., Box 552, Midland, Texas 79702

Burlington Resources, c/o Meridian Oil, Inc., Box 51810, Midland, Texas 79710-1810

Amoco Production Co., Exploration & Production Sector, Box 4891, Houston, Texas 77210

Caulkins Oil Co., Box 340, Bloomfield, NM 87413

Elm Ridge Resources, Box 3946, Farmington, NM 87499

Snyder Oil Co., no longer an operator in the New Mexico Aztec District as per District Office.

Robert R. Click, no longer an operator in the New Mexico Aztec District as per District Office.

P 497 368 595

US Postal Service
Receipt for Certified MailAmoco Production Co.
Expl. & Prod. Sector
Box 4891
Houston, Texas 77210

Postage	\$ 1.93
Certified Fee	1.35
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.10
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$ 4.38

Postmark or Date

6-18-97

PS Form 3800, April 1995

P 497 368 594

US Postal Service
Receipt for Certified MailBurlington Resources
c/o Meridian Oil, Inc.
Box 51810
Midland, Texas 79710-1810

Postage	\$ 2.90
Certified Fee	1.35
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.10
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$ 5.35

Postmark or Date

6-18-97

PS Form 3800, April 1995

P 497 368 593

US Postal Service
Receipt for Certified MailMarathon Oil Co.
Box 552
Midland, Texas 79702

Postage	\$.78
Certified Fee	1.35
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.10
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$ 3.23

Postmark or Date

6-18-97

PS Form 3800, April 1995

P 497 368 597

US Postal Service
Receipt for Certified MailElm Ridge Resources
Box 3946
Farmington, NM 87499

Postage	\$.78
Certified Fee	1.35
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.10
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$ 3.23

Postmark or Date

6-18-97

PS Form 3800, April 1995

P 497 368 596

US Postal Service
Receipt for Certified MailCaulkins Oil Co.
Box 340
Bloomfield, NM 87413

Postage	\$ 1.24
Certified Fee	1.35
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.10
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$ 3.69

Postmark or Date

6-18-97

PS Form 3800, April 1995