

This form is not to
be used for reporting
packer leakage tests
in Southeast New Mexico

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator CONOCO INC Lease SAN JUAN 28-7 UNIT Well No. 33A (PM)
Location of Well: Unit I Sec. 13 Twp. 28 Rge. 07 County RIO ARriba

	NAME OF RESERVOIR OR POOL	TYPE OF PROD. (Oil or Gas)	METHOD OF PROD. (Flow or Art. Lift)	PROD. MEDIUM (Tbg. or Csg.)
Upper Completion	PICTURED CLIFF	GAS	FLOW	TBG.
Lower Completion	MESA VERDE	GAS	FLOW	TBG.

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, date shut-in <u>06-10-96</u>	Length of time shut-in <u>7-DAYS</u>	SI press. psig <u>387</u>	Stabilized? (Yes or No) <u>NO</u>
Lower Completion	Hour, date shut-in <u>06-10-96</u>	Length of time shut-in <u>7-DAYS</u>	SI press. psig <u>327</u>	Stabilized? (Yes or No) <u>NO</u>

FLOW TEST NO. 1

Commenced at (hour, date)* <u>06-17-96</u>				Zone producing (Upper or Lower): <u>LOWER</u>	
TIME (hour, date)	LAPSED TIME SINCE*	PRESSURE		PROD. ZONE TEMP.	REMARKS
		Upper Completion	Lower Completion		
<u>06-15-96</u>	<u>1-Day</u>	<u>340</u>	<u>320</u>		<u>BOTH ZONES SHUT -IN</u>
<u>06-16-96</u>	<u>2-Days</u>	<u>385</u>	<u>320</u>		<u>BOTH ZONES SHUT -IN</u>
<u>06-17-96</u>	<u>3-Days</u>	<u>387</u>	<u>327</u>		<u>BOTH ZONES SHUT -IN</u>
<u>06-18-96</u>	<u>1-Day</u>	<u>387</u>	<u>310</u>		<u>LOWER ZONE FLOWING</u>
<u>06-19-96</u>	<u>2-Days</u>	<u>387</u>	<u>322</u>		<u>LOWER ZONE FLOWING</u>

Production rate during test

Oil: _____ BOPD based on _____ Bbls. in _____ Hours. _____ Grav. _____ GOR _____

Gas: _____ MCFPD; Tested thru (Orifice or Meter): _____

MID-TEST SHUT-IN PRESSURE DATA

Upper Completion	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
Lower Completion	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)

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JUL 11 1996

(Continue on reverse side)

OIL CON
PAC

FLOW TEST NO. 2

[illegible]

production rate during test

_____ BOPD based on _____ Bbls. in _____ Hours. _____ Gray. _____ GOR

5: _____ MCFPD: Tested thru (Office or Meter):

WIKIS:

credeby certuly that the information herein contained is true and complete to the best of my knowledge.

19

New Mexico Oil Conservation Division

Deputy Chief of Gas Inspector

Date _____

Tide

By

Operator

CONOCO INC.

ADLSEA 004

PRODUCTS SPECIMENS

COMMODORE

NORTHWEST NEW MEDCO PACKER LEAKAGE TEST INSTRUCTIONS

any further remedial work has been done on a well during which the completion was attempted, and whenever a well is completed within seven days following recompletion and/or chemical or fracturing of the well, such well shall also be commenced on all subsequent completions. Such well shall also be commenced by the day after actual completion of the well, and annually thereafter as prescribed by the Department of Natural Resources. The Department may suspend or suspend the requirement that a well be commenced on all subsequent completions if the well is suspected or when requested by the Division.

At least 2: Non-prior to the commencement of any packet leakage test, the operator must submit a written declaration to the Commission of the exact time the test is to be commenced. Official test results shall also be so notified.

The packet leakage test shall commence when both zones of the dual completion test are in each has stabilized. Both zones that remain shut-in until the well-head pressure is stabilized, provided however, that they need not remain shut-in more than 30 days.

or Flow Test No. 1, one zone of the dual completion shall be produced at the normal rate of production while the other zone remains shut-in. Such test shall be continued for 48 hours in the case of a gas well and for 72 hours in the case of an oil well. After 48 hours in the case of a gas well or 72 hours in the case of an oil well, a pipeline connection the flow period shall be three hours.

Flow Test No. 2 shall be conducted even though no leak was indicated during Flow Test No. 1. Procedure for Flow Test No. 2 is to be the same as for Flow Test No. 1 except

that the previously produced zone shall remain shut-in while the zone which was previously shut-in is produced.

7. Pressures for gas-zone tests must be measured on each zone with a deadweight pressure gauge at time intervals as follows: 5 hours tests: immediately prior to the beginning of each flow-period, at fifteen-minute intervals during the first hour thereof, and at hourly intervals thereafter, including one pressure measurement immediately prior to the conclusion of each flow period. 7-day tests: immediately prior to the beginning of each flow period, at least one time during each flow period (at approximately the midway point) and immediately prior to the conclusion of each flow period. Other pressures may be taken as desired, or may be requested on wells which have previously shown questionable test data.

24-hour oil zone tests: all pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauges the accuracy of which must be checked at least twice, once at the beginning and once at the end of each test, with deadweight pressure gauges. If a well is a gas-oil or an oil-gas dual completion, the recorded gauge shall be required on the oil zone only, with deadweight pressures as required above being taken on the gas zone.

8. The results of the above-described tests shall be filed in triplicate within 15 days after completion of the test. Tests shall be filed with the Asset District Office of the New Mexico Oil Conservation Division on Northwest New Mexico Packer Leasing Test Form Revised 10-01-78 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only).



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

ADMINISTRATIVE ORDER DHC-1599

Conoco Inc.
10 Desta Drive
Suite 100W
Midland, Texas 79705-4500
Attention: Mr. Jerry W. Hoover

RECEIVED
JUL 24 1997

OIL CON. DIV.
DIST. 3

*San Juan 28-7 Unit No. 33A
API No. 30-039-22238
Unit J, Section 13, Township 28 North, Range 7 West, NMPM,
Rio Arriba County, New Mexico.
South Blanco-Pictured Cliffs (Gas - 72439) and
Blanco-Mesaverde (Prorated Gas - 72319) Pools*

Dear Mr. Hoover:

Reference is made to your recent application for an exception to Rule 303.A. of the Division Rules and Regulations to permit the above described well to commingle production from the subject pools in the wellbore.

It appearing that the subject well qualifies for approval for such exception pursuant to the provisions of Rule 303.C., and that reservoir damage or waste will not result from such downhole commingling, and correlative rights will not be violated thereby, you are hereby authorized to commingle the production as described above and any Division Order which authorized the dual completion and required separation of the zones is hereby placed in abeyance.

The maximum amount of gas which may be produced daily from the well shall be determined by Division Rules and Regulations or by the gas allowable for each respective prorated pool as printed in the Division's San Juan Basin Gas Proration Schedule.

Assignment of allowable to the well and allocation of production from the well shall be on the following basis:

South Blanco-Pictured Cliffs Gas Pool	Oil 0%	Gas 12%
Blanco-Mesaverde Gas Pool	Oil 100%	Gas 88%

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

San Juan 28-7

33A

J-13, T-28-N, R-7-W

Rio Arriba

Lease

Well No

Unit Ltr Sec Twp Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 005073 Property Code 16608 API NO. 30-039-22238 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 72439		Mesa Verde 72319
2. TOP and Bottom of Pay Section (Perforations)	3434-3497'		5063-6047'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottom hole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	a (Current) 407 PSIA b (Original) 1000 PSIA		a. 364 PSIA b. 1195 PSIA
6. Oil Gravity (*API) or Gas BTU Content	1243		1237
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 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 7-1-97, 15 MCFD 0 BOPD, 0 BWPD	Date Rates 7-1-97 110 MCFD .5 BOPD, 0 BWPD	Date Rates 7-1-97 110 MCFD .5 BOPD, 0 BWPD
8. Fixed Percentage Allocation Formula - % for each zone	oil: 0 % Gas 12 %	oil: % Gas %	oil: 100 % Gas 88 %

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? X Yes ☒ No
Have all offset operators been given written notice of the proposed downhole commingling? X 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 X 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. X 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 6/10/97

TYPE OR PRINT NAME Jerry W. Hoover TELEPHONE NO. (915) 686-6548

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

Operator EL PASO NATURAL GAS COMPANY			Lease SAN JUAN 28-7 UNIT (SF-079290)		Well No. 33A
Unit Letter J	Section 13	Township 28N	Range 7W	County Rio Arriba	
Actual Footage Location of Well:					
1520 feet from the South line and		1830 feet from the East line			
Ground Level Elev. 6652	Producing Formation Mesa Verde -	Pictured Cliffs	Undesignated Pictured Cliffs	Dedicated Acreage: 160.0 & 320.0 Acres	

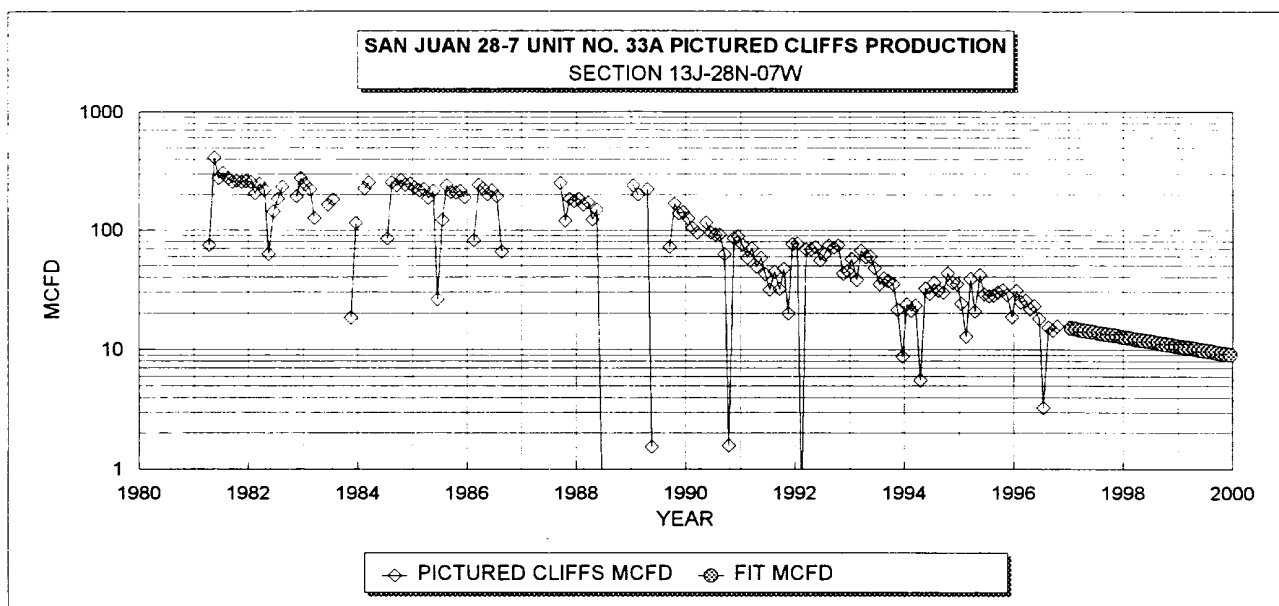
1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is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

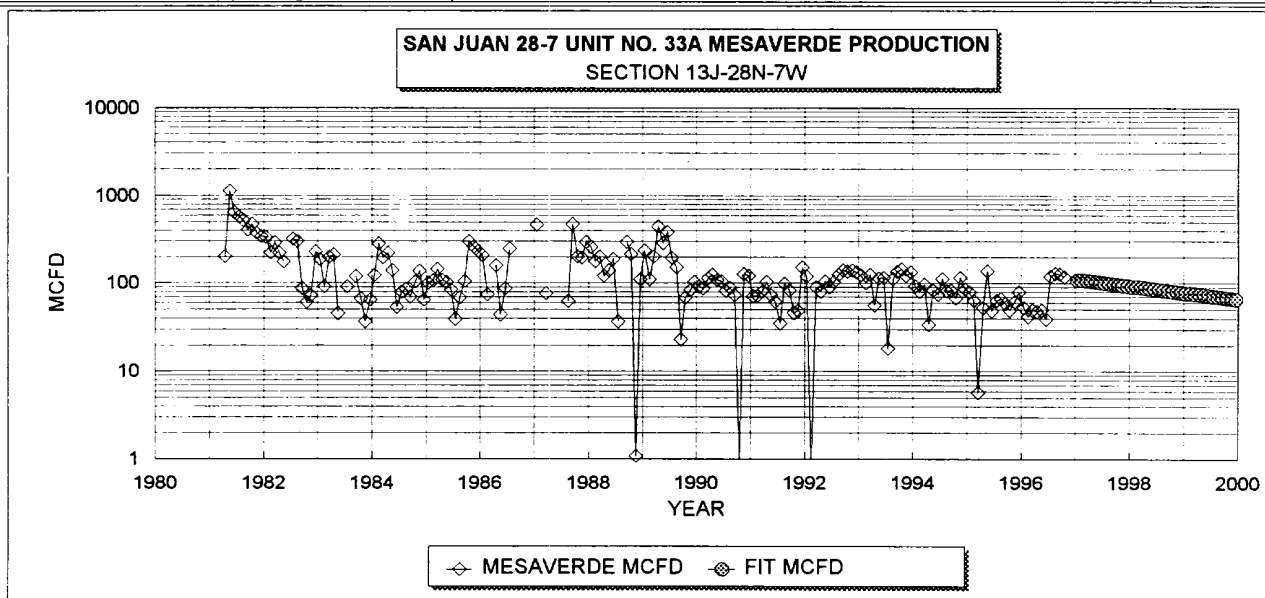
	CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <i>[Signature]</i> Name _____ Drilling Clerk Section _____ El Paso Natural Gas Co. Company _____ October 18, 1979 Date _____
	I hereby certify that the well location shown 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 August 14, 1979 Registered Professional Engineer and/or Surveyor <i>[Signature]</i> Fred E. Korte Jr. Certificate No. 3950

**PICTURED CLIFFS HISTORICAL DATA 1ST PROD: 04/81**

OIL CUM: 0.00 MBO
 GAS CUM: 523.0 MMCF
 OIL YIELD: 0.0000 BBL/MCF

PICTURED CLIFFS PROJECTED DATA

1/1/97 Qi: 15 MCFD
 DECLINE RATE: 16.0% (EXPONENTIAL)

**MESAVERDE HISTORICAL DATA 1ST PROD: 04/81**

OIL CUM: 3.6 MBO
 GAS CUM: 760.0 MMCF
 OIL YIELD: 0.0047 BBL/MCF

MESAVERDE PROJECTED DATA

1/1/97 Qi: 110 MCFD
 DECLINE RATE: 16.0% (EXPONENTIAL)

FIXED COMMINGLE ALLOCATION FACTORS:

	GAS	OIL
PICTURED CLIF	12%	0%
MESAVERDE	88%	100%

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

NOTE: ALL PRODUCTION DATA FROM DWIGHTS ENERGY DATA

SAN JUAN 28-7 #33A

OFFSET OPERATORS

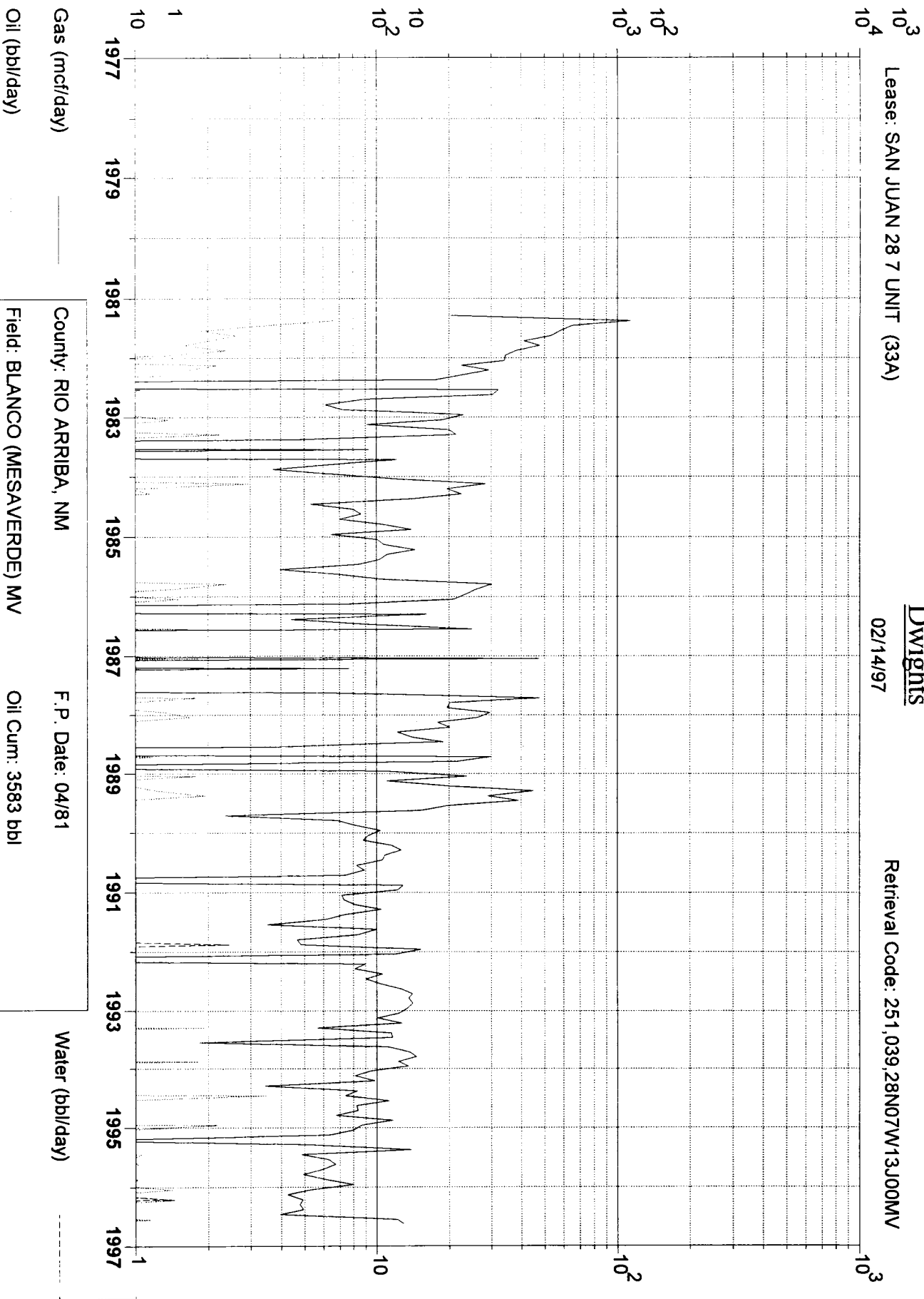
CONOCO	CONOCO	BURLINGTON RES
11	12	7
CONOCO AMOCO	CONOCO AMOCO	BURLINGTON RES
14	13 33A 0	18
CONOCO AMOCO	CONOCO AMOCO	BURLINGTON RES
23	24	19

Township 28N --- Range 7W

Lease: SAN JUAN 28 7 UNIT (33A)

Dwights
02/14/97

Retrieval Code: 251,039,28N07W13J00MV



County: RIO ARRIBA, NM

F.P. Date: 04/81

Field: BLANCO (MESAVARDE) MV

Oil Cum: 3583 bbl

Reservoir: MESAVARDE

Gas Cum: 759.7 mmcf

Operator: CONOCO INC

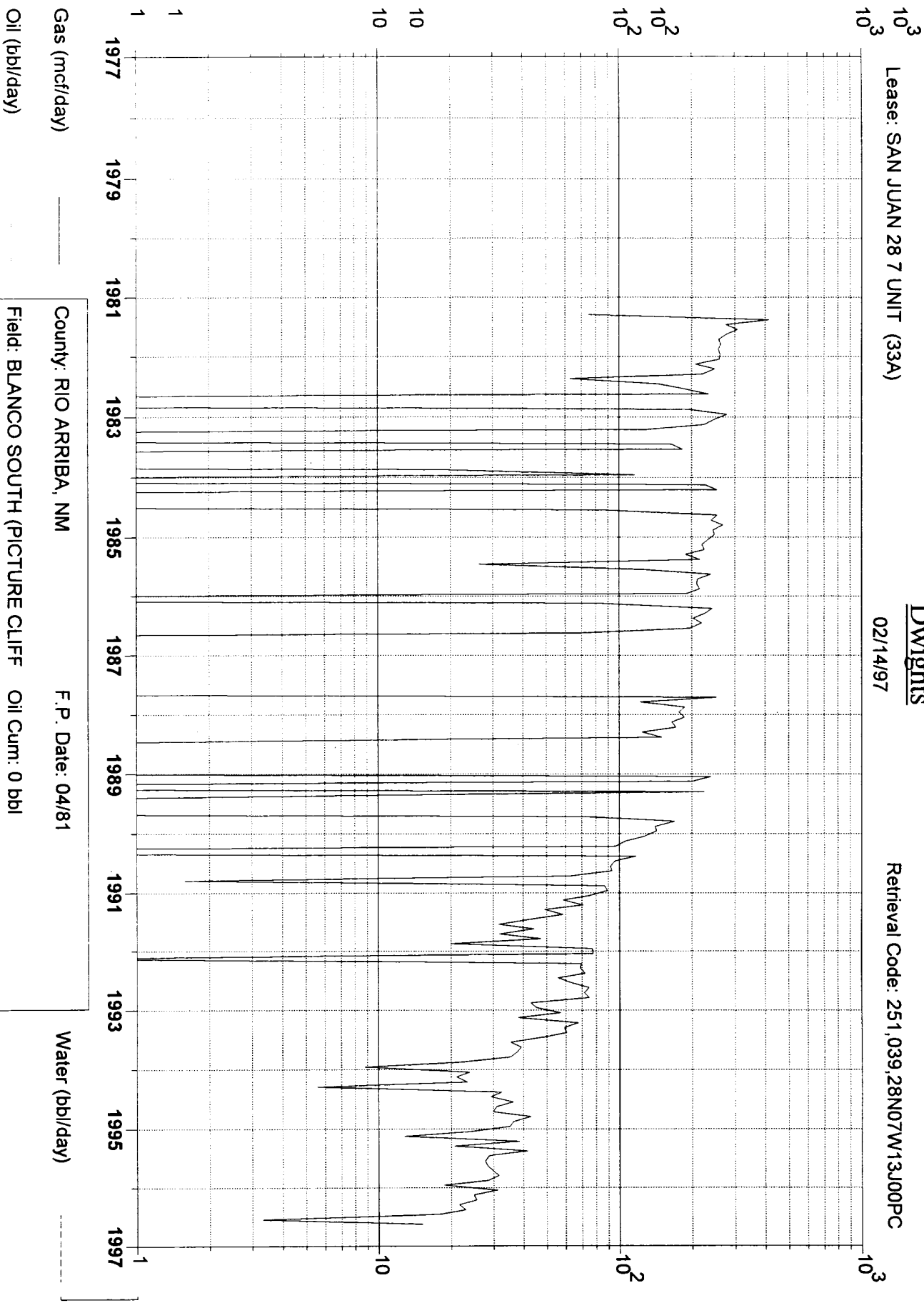
Location: 13J 28N 7W

Dwights

Lease: SAN JUAN 28 7 UNIT (33A)

02/14/97

Retrieval Code: 251,039,28N07W13J00PC



Gas (mcf/day)

Oil (bbl/day)

County: RIO ARRIBA, NM

F.P. Date: 04/81

Field: BLANCO SOUTH (PICTURE CLIFF

Oil Cum: 0 bbl

Reservoir: PICTURE CLIFFS

Gas Cum: 522.7 mmcf

Operator: CONOCO INC

Location: 13J 28N 7W

Water (bbl/day)