

5/29/98	6/18/98	DC	W	DHC
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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

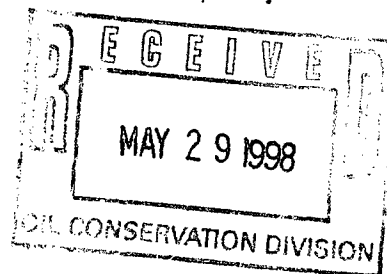
Check One Only for [B] or [C]

[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 further verify that all applicable API Numbers are included. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statements must be completed by an individual with supervisory capacity

RICHARD CORCORAN
Print or Type Name

Richard Corcoran
Signature

DISTRICT LANDMAN
Title

5-27-98
Date

TAURUS

TAURUS EXPLORATION, INC.
2198 Bloomfield Highway
Farmington, New Mexico 87401
Telephone (505) 325-6800

May 27, 1998

To: Interest Owners and Offset Operator
San Juan 32-5 Unit #11M Well
813' FSL, 803' FEL, Sec. 23, T32N, R6W
Rio Arriba County, New Mexico

Dear Interest Owner:

Attached is a copy of our application to the NMOCD requesting administrative approval to downhole commingle the Blanco Mesaverde and Basin Dakota formations of the captioned well.

As an interest owner if you have objections to this proposal you should notify the NMOCD at 2040 South Pacheco, Santa Fe, New Mexico 87505 within 20 days of the date of this letter, with a copy to our letterhead address. If you do not have an objection, no response is necessary.

If there should be any questions, please let me know.

Sincerely,



Richard P. Corcoran
District Landman

RPC/df
Enclosure



TAURUS EXPLORATION, INC.
2198 Bloomfield Highway
Farmington, New Mexico 87401
Telephone (505) 325-6800

May 27, 1998

Lori Wrotenbery, Director
New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

RE: Administrative Approval to Downhole Commingle
San Juan 32-5 Unit # 11M Well
813' FSL, 803' FEL, Sec. 23, T32N, R6W
Rio Arriba County, New Mexico

Dear Ms. Wrotenbery:

Taurus Exploration U.S.A., Inc. hereby requests administrative approval to downhole commingle the Blanco Mesaverde and Basin Dakota pools in the captioned well.

The subject well is being proposed as a commingled well to economically recover gas from both zones of the underlying proration unit. As this is to be a newly drilled well, we propose the attached allocation method. Field rules and the San Juan 32-5 Unit Operating Agreement, to which this well is dedicated provide for 320 acre spacing units for both the Blanco Mesaverde and Basin Dakota formations.

To comply with New Mexico Oil Conservation Rules, Taurus Exploration U.S.A., Inc. is submitting the following data for your approval of the proposed commingling:

1. C107A - Application for Downhole Commingling
2. C102 - Location plat showing each spacing unit and dedicated acreage
3. Economics and production curves for Mesaverde and Dakota
4. Offset Operator Plat
5. Well location plat
6. Proposed Allocation Method

In accordance to New Mexico Oil Conservation Division Rule 303C, all offset operators are being notified of this application by certified mail.

If there should be any questions concerning this matter, please contact me.

Sincerely,

Richard P. Corcoran
District Landman

RPC/df

cc: NMOCD-Aztec, BLM-Farmington, Offset Operators, Interest Owners

F:\LAND\COMINGLING\32511MOC.WPD

DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II

811 S. 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 875054-6429Form C-107-A
New 3-12-96

APPROVAL PROCESS:

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☐ YES ☒ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Operator Taurus Exploration U.S.A., Inc. Address 2198 Bloomfield Highway, Farmington, New Mexico 87401Lease San Juan 32-5 Unit Well No. 11M Unit Ltr. - Sec - Twp - Rge 0 Sec. 23- T32N- R6W County Rio ArribaOGRID NO. 16928 Property Code _____ API NO. _____ 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	Blanco Mesaverde 72319		Basin Dakota 71599
2. Top and Bottom of Pay Section (Perforations)	4332-5886		7807-7990
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure	a. (Current)	a.	a.
Oil Zones - Artificial Lift: Estimated Current	not yet drilled		not yet drilled
Gas & Oil - Flowing: Measured Current	b. (Original)	b.	b.
All Gas Zones: Estimated Or Measured Original	1100		1400
6. Oil Gravity (^o API) or Gas BTU Content)			
7. Producing or Shut-In?	not yet completed		not yet completed
Production Marginal? (yes or no)	Yes (dual uneconomical)		Yes (dual uneconomical)
* If Shut-In, give date and oil/gas/water rates of last production	Date: Rates: n/a	Date: Rates:	Date: Rates: n/a
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: n/a	Date: Rates:	Date: Rates: n/a
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?
If not, have all working, overriding, and royalty interests been notified by certified mail?
Have all offset operators been given written notice of the proposed downhole commingling?
☒ Yes ☒ No
☒ Yes ☐ No
☒ 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 other? ☒ Yes ☐ No13. Will the value of production be decreased by commingling? ☐ Yes ☒ No (If Yes, attach explanation)14. If this well in 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 Richard P. Corcoran TITLE District Landman DATE 5/26/98TYPE OR PRINT NAME Richard P. Corcoran TELEPHONE NO. (505) 325-6800

District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 875

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised October 18, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Free Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

* API Number		* Pool Code 72319/71599	* Pool Name Blanco Mesa Verde/Basin Dakota
* Property Code	* Property Name SAN JUAN 32-5 UNIT		* Well Number 11M
* OGRID No.	* Operator Name TAURUS EXPLORATION U.S.A, Inc.		* Elevation 6321

¹⁰ Surface Location

UI, or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	23	32N	6W		813	SOUTH	803	EAST	RIO ARRIBA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no. 320	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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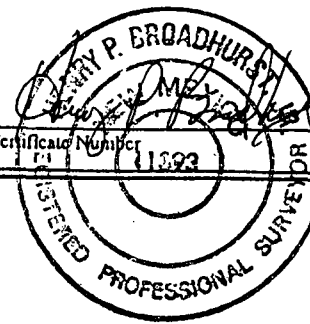
11 Dedicated Acres 320	12 Joint or Infill	14 Consolidation Code	15 Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16 S 89-36 W 2616.90'	S 89-39 W 2682.90'	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
SEC. 23		Signature Gary W. Brink Printed Name Production Superintendent Title
N 01-21 W 2624.82'		Date
N 00-21 E 2670.36'		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.
813'		3/23/98 Date of Survey Signature and Seal of Professional Surveyor:
N 89-44 W 5464.14'		Certificate Number 11893

N 00-10 W
2634.72'

N 02-42 E
2599.74'

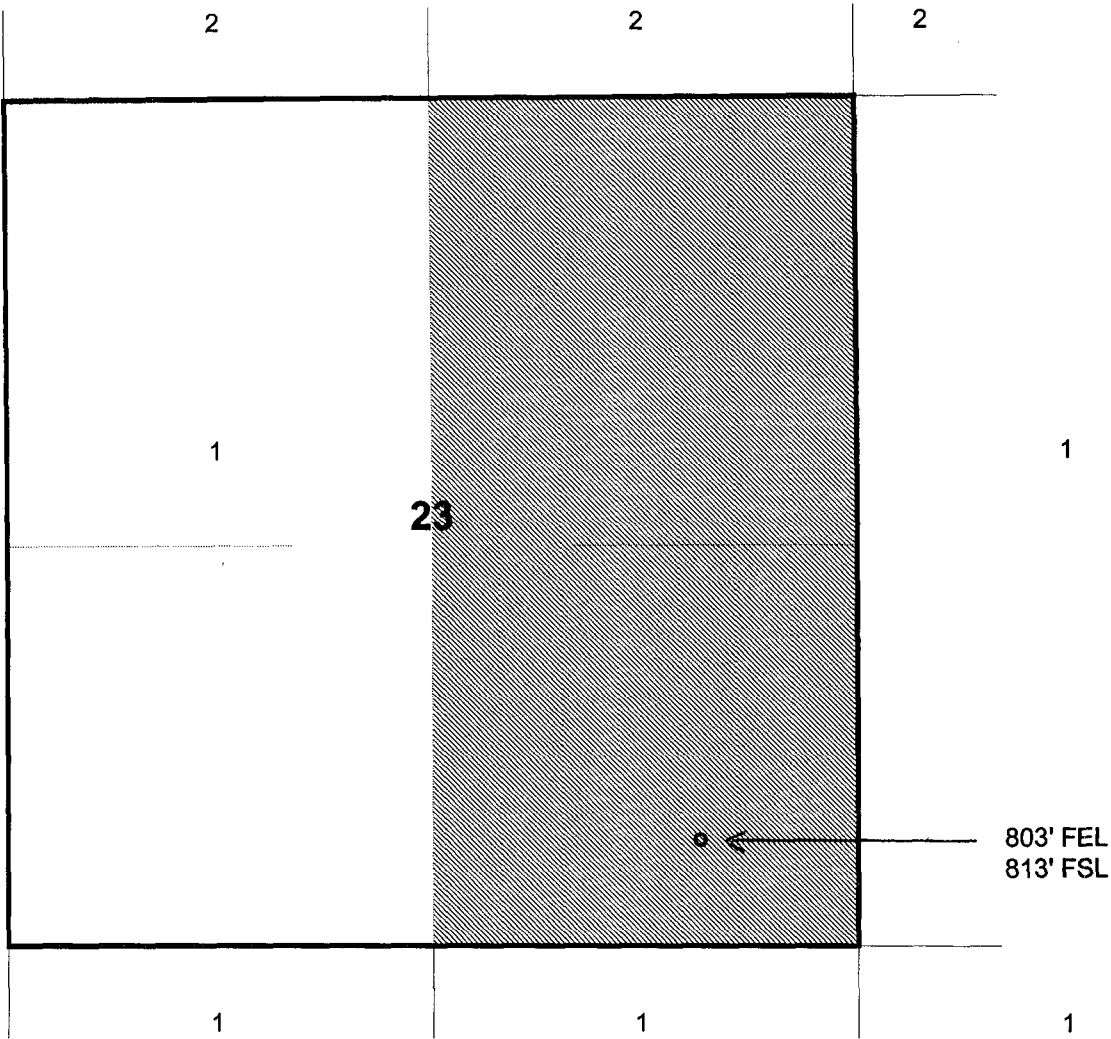


Taurus Exploration U. S. A., Inc.

**San Juan 32-5 Unit 11M
OFFSET OPERATOR \ OWNER PLAT**

Commingle Dakota \ Mesa Verde Formations

Township 32 North - Range 6 West



- 1. Taurus Exploration U S A, Inc
- 2. None

TAURUS EXPLORATION
SAN JUAN 32-5 UNIT #11M ACCESS ROAD
SE/4 SE/4 SEC.23, T.32 N., R.6 W., N.M.P.M.,
RIO ARRIBA COUNTY, NEW MEXICO.

SE/4 SE/4 SEC.23, T.32 N., R.6 W., N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO.

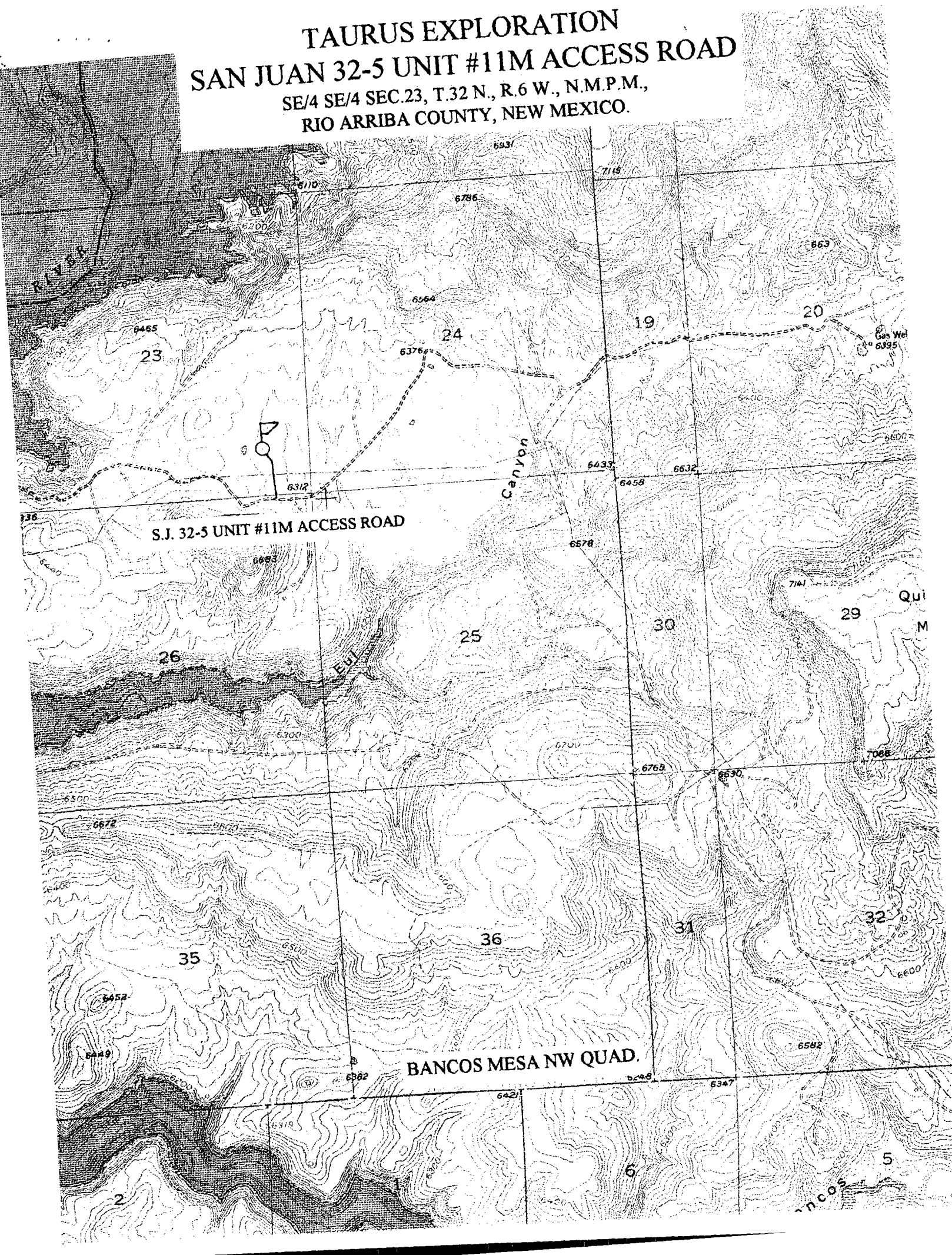


Figure # 1

SAN JUAN 32-5 UNIT ECONOMICS

ASSUMPTIONS	COMMINGLE	DUAL
INITIAL WELL COSTS	\$ 685,000	\$ 795,000
INITIAL RATE	350 MCFD	320 MCFD
DECLINE RATE	6 %	6 %
OPERATING COST	\$ 800 /MO	\$ 800 /MO
WORKING INTEREST	0.98	0.98
NET REVENUE	0.76	0.76
BTU VALUE	1100	1100
GAS PRICE	\$ 2.00 / MCF	\$ 2.00 / MCF
PRICE DIFFERENTIAL	-\$ 0.30/ MCF	-\$ 0.30/ MCF
PROCESSING PLANT	IGNACIO	IGNACIO
LIQUID YIELD	1.53 GAL / MCF	1.53 GAL / MCF
LIQUID PRICE	\$ 0.18 / GAL	\$ 0.18 / GAL
RECOVERABLE RESERVES	1.9 BCF	1.7 BCF
PROJECT IRR	20.6 %	14.8 %

FIGURE 2

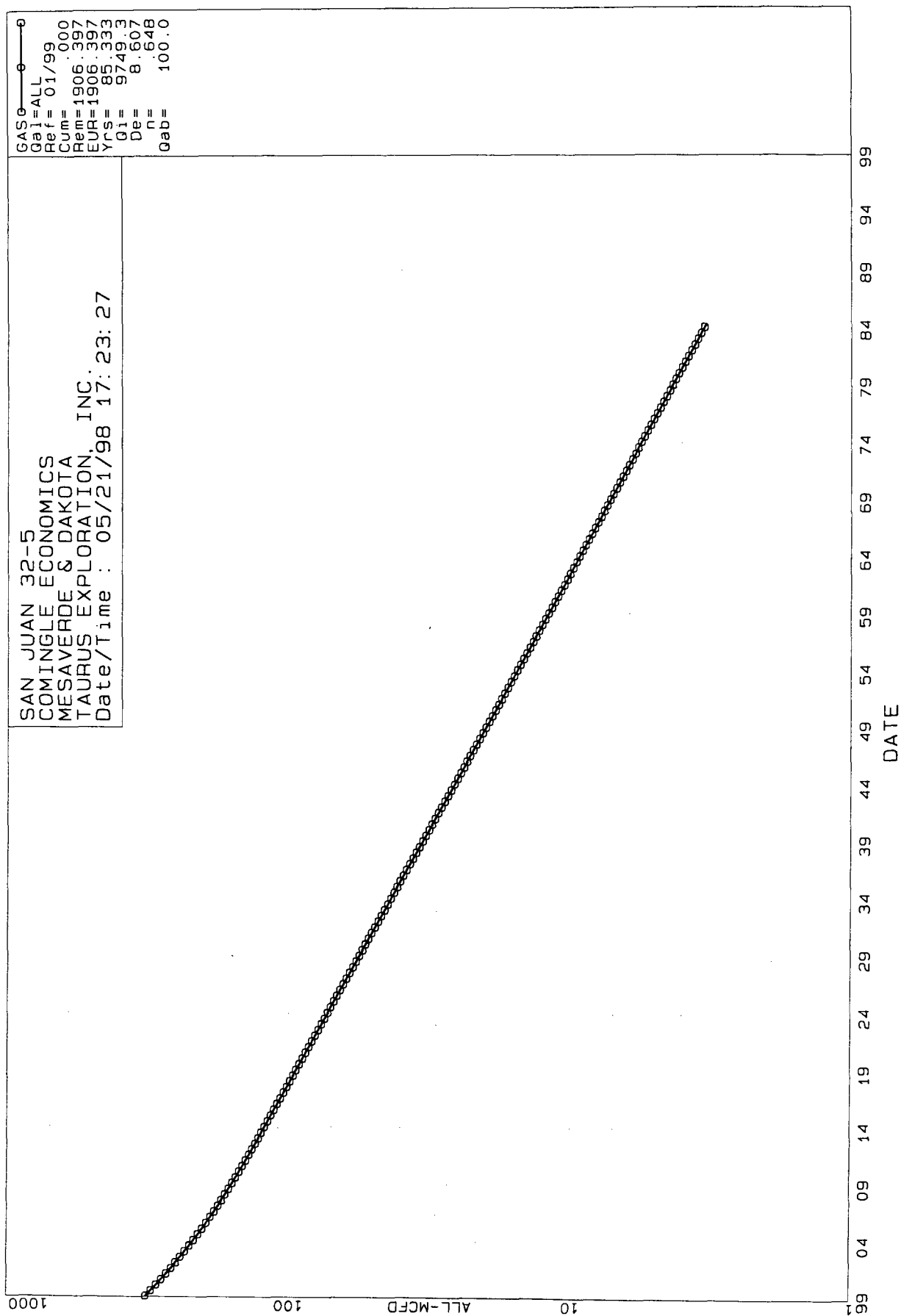


FIGURE 3

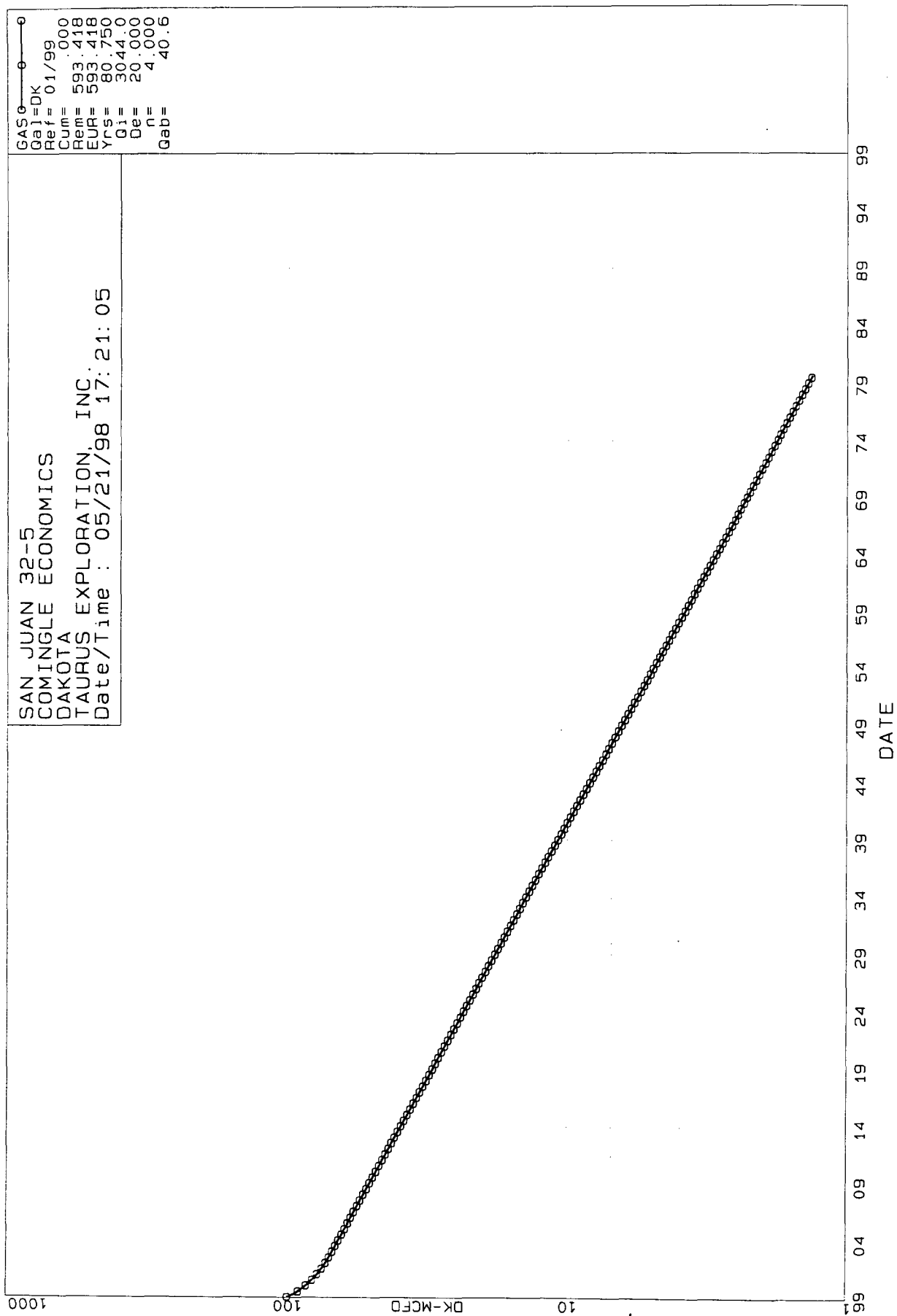
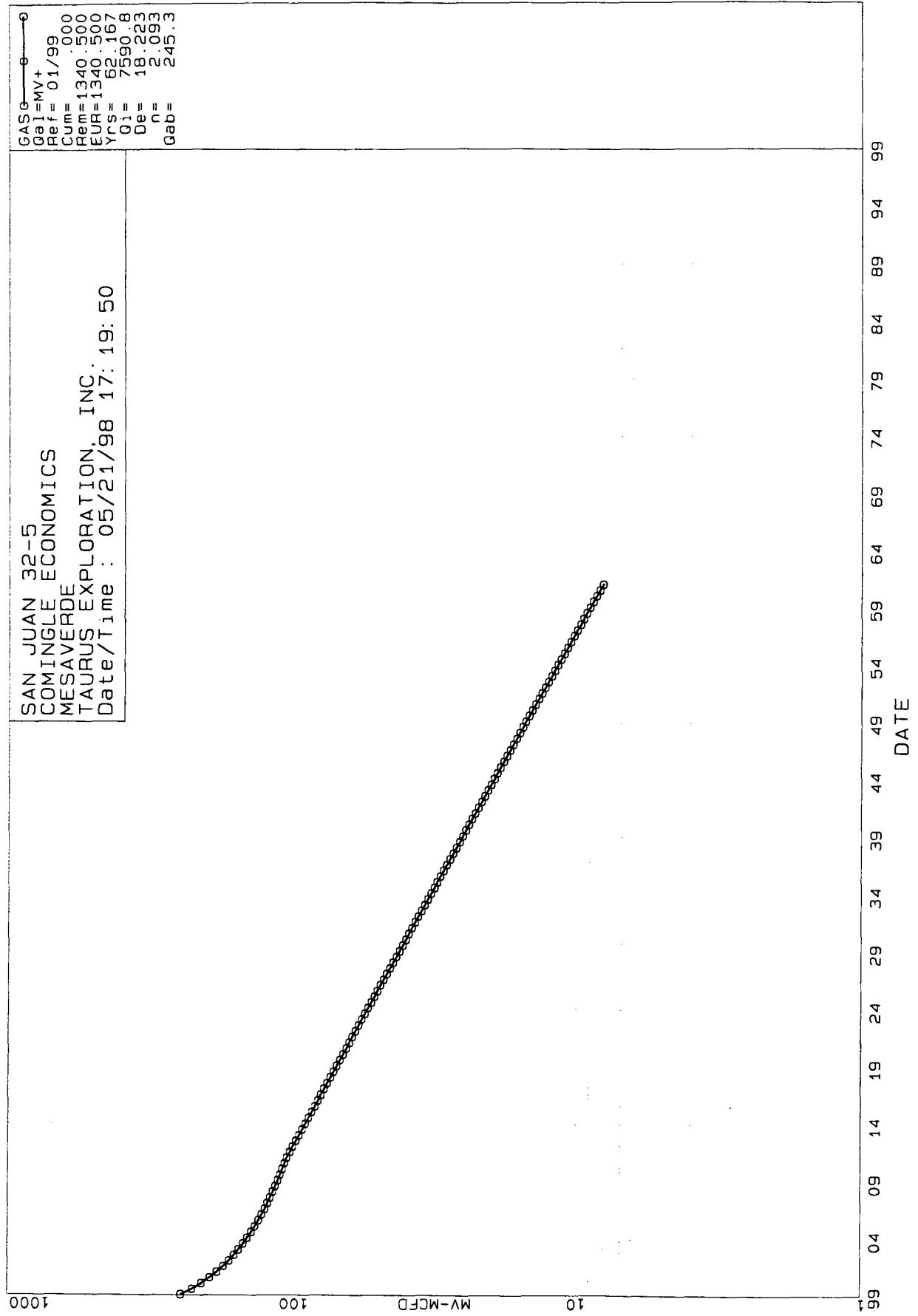


FIGURE 4



RECOMMENDED ALLOCATION METHOD

1. Complete both Mesa Verde and Dakota intervals.
2. Clean out well to total depth with air and test combined flowstream.
3. Run RBP and set above Dakota interval. flow test Mesa Verde Zone.
4. Remove RBP and finalize completion.
5. Report flow test data to NMOCD Aztec district office.
6. Allocate Production as follows:

$$MV = MV \text{ test rate} / \text{Total combined rate}$$

$$Dk = \text{Total combined rate} - MV \text{ test rate} / \text{Total combined rate}$$



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

June 23, 1998

Taurus Exploration U.S.A. Inc.
2198 Bloomfield Highway
Farmington, New Mexico 87401

Attention: Mr. Richard P. Corcoran

Re: Downhole Commingling Applications
San Juan 32-5 Unit
Well Nos. 9M, 19, 17M, 14M, 13M, and, 11M

Dear Mr. Corcoran:

After review of your applications to downhole commingle Basin-Dakota and Blanco-Mesaverde Gas Pool production within the subject wells, it has been determined that the following additional information will be required in order to process the applications.

- 1) Estimated current bottomhole pressures for each of the proposed commingled zones. Such pressures may be estimated based upon offset wells or other applicable data. Applicant shall submit supporting data used to determine such pressures;
- 2) Supporting data for estimated or measured bottomhole pressure data;
- 3) Gas BTU content. This may be estimated based upon offset wells.
- 4) Projected initial producing rates for each of the commingled zones and supporting data used to determine such projected rates;
- 5) Projected recoverable gas reserves for each of the commingled zones and supporting data used to determine such projected reserves; and,
- 6) A more detailed discussion on the well economics.

Your applications will be processed upon receipt of the required additional data. If you should have any questions, please contact me at (505) 827-8184.

Sincerely,

A handwritten signature in black ink, appearing to read "David Catanach", with a long horizontal flourish extending to the right.

David Catanach
Engineer

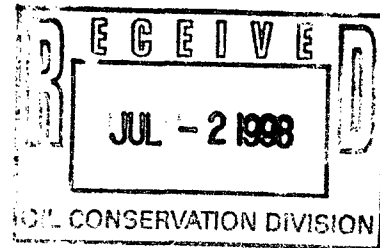
xc: OCD-Aztec
BLM-Farmington

TAURUS

TAURUS EXPLORATION, INC.
2198 Bloomfield Highway
Farmington, New Mexico 87401
Telephone (505) 325-6800

July 1, 1998

David Catanach
New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505



Re: Downhole Commingling
San Juan 32-5 Unit
Well #'s 9M, 19, 17M, 14M, 13M, AND 11M

Dear David:

Attached is the additional information you requested pertaining to Taurus Exploration U.S.A., Inc.'s applications to downhole commingle the above mentioned wells. After your review, if additional supporting information is needed please contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Gary W. Brink". The signature is fluid and cursive, with a long horizontal stroke at the end.

Gary W. Brink
Production Superintendent

GWB/df

F:\PRODUCT\COMMINGL\32-5.WPD

TAURUS

Memorandum

Date: June 30, 1998

To: FILE

From: *gg* *J.O.*
Greg Jennings & Joe O'Leary

Subject: Supporting Documentation for Downhole Commingling Application
in San Juan 32-5 Unit

This Memo to File serves to provide the additional required information and analytical process utilized to evaluate the Basin-Dakota and Blanco-Mesaverde gas pools. The final data provided within, should meet the requirements of the NMOCD in order to process the applications for downhole commingling within the San Juan 32-5 Unit. A summary of the key reservoir parameters developed from this study is outlined on Exhibit #1.

Initial bottomhole pressure data was collected from Dwights production database. Where BHP data was not available, initial wellhead shut-in data was converted to BHP for both the Mesaverde and Dakota pools. The initial bottomhole pressures for both pools were mapped and attached on Exhibit #2. Current BHP was determined by two methods. The most reliable data came from a direct 15-month shut-in period due to a pipeline break ending in August, 1997. The wellhead pressures were converted to bottomhole pressures for five Mesaverde wells and two Dakota wells. Where sustained shut-in data was not available, current BHP values were calculated using P/Z analysis where sufficient production had taken place. Initial BHP data was utilized in conjunction with historic EUR data from decline curve analysis to generate a P/Z vs. cum plot. Abandonment pressures were assumed to equal line pressures for the area. A plot was generated using the initial pressure data and the expected EUR at abandonment pressure. Gathering the cumulative production at several other locations within the pools enabled us to estimate the current bottomhole pressures at several locations. Attached on Exhibit #3 is the current BHP for both the Mesaverde and Dakota pools. Exhibit 4 contains the supporting P/Z analysis where actual current BHP data was not available. Current BHP values for the proposed wells were estimated by evaluating the net pay and pressure depletion within each pool.

The projected initial gas rates and subsequent recoverable reserve estimates were determined by evaluating the offset production, net pay, and pressure depletion. Attached on Exhibit #5 are the cumulative production plots and the projected EUR values for the area by matching the historic hyperbolic decline and extending it to the well's economic limit. Wells that had mechanical failures such as casing leaks were extrapolated to a hypothetical EUR to enhance the credibility of the contours. Initial production rates and ultimate recoverable reserves are determined and dominated by the presence of natural fractures and, therefore, difficult to predict. Attached on Exhibit #6 are current production rates for each pool. The initial performance for the development wells was determined by extrapolating between the initial rates of each of the newer wells to the south in the Rosa Unit and the older existing wells within the 32-5 Unit. Rate-Time plots illustrating the production profiles on these wells are shown on Exhibit #7.

June 30, 1998

The development wells are expected to have an initial rate slightly higher than the current production rates for the offset wells and similar to the newer Rosa Unit wells to the south. BTU values from several offset wells were utilized to determine an average BTU value for each pool. All BTU values are shown on Exhibit #8 as dry samples at 60°F and 14.73 psi.

Well economics were run for both a commingled and dual completion to determine the economic viability for each scenario. Gross well costs were estimated for a Dakota/Mesaverde commingle and dual well. Well costs were estimated to be \$685,000/well for a commingle completion and \$795,000/well for a dual completion. Initial well costs were \$110,000 greater per well on a dual completion due to increased hole size, casing size, additional tubulars, packers, and rig expense. The projected initial rate of 350 Mcfd for a commingled well was reduced by 30 for the dual well to account for additional wellbore restrictions and friction pressure associated with dual completions. Holding all other variables constant, the economic model yielded the following results:

- EUR is increased from 1.7 BCF to 1.9 BCF by utilizing a commingled completion.
- Economic well life is extended by one year by utilizing a commingled completion.
- Recovery of gas-in-place is maximized.
- IRR of the project is increased from 14.8% to 20.6%.

The project economics under a dual completion scenario are uneconomic and do not warrant development, whereas the commingled completion meets Taurus' economic threshold for project viability and maximizes the recovery of the gas-in-place. Attached on Exhibit #9 is a detailed economic analysis for each scenario, a summary sheet for each option, and production profiles for each zone as well as a composite for the well assuming commingled conditions.

JMO/lcw

Cc: Joe Niederhofer
Gary Brink
Rich Corcoran
Paul Sparks
Jerry Saulsberry
Ron Tisdale

EXHIBIT #1		EXPECTED RESERVOIR PARAMETERS**			
WELL	BTU	CURRENT BHP (PSI)	ULTIMATE RECOVERY (BCF)	INITIAL RATE (MCFD)	
			MESAVERDE		
32-5 #9M	1000	1200	1.3	250	
32-5 #11M	1000	1100	1.3	250	
32-5 #13M	1000	1200	1.3	250	
32-5 #14M	1000	1100	1.3	250	
32-5 #17M	1000	1100	1.3	250	
32-5 #19	1000	1100	1.3	250	
			DAKOTA		
32-5 #9M	974	1600	0.6	100	
32-5 #11M	974	1400	0.6	100	
32-5 #13M	974	1800	0.6	100	
32-5 #14M	974	1400	0.6	100	
32-5 #17M	974	1400	0.6	100	
32-5 #19	974	1200	0.6	100	
			1.9	350	

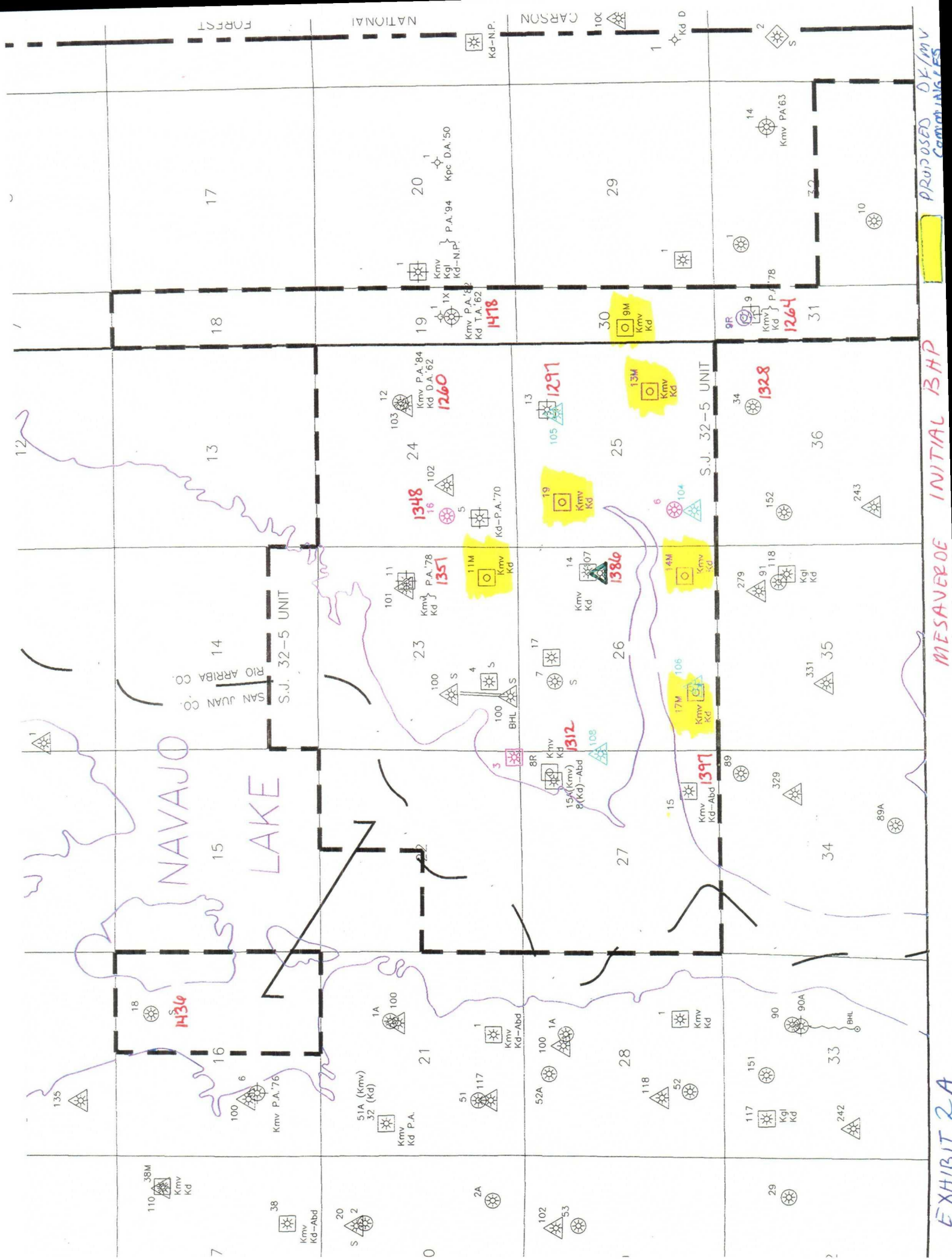


EXHIBIT 2A

MESAVEROE

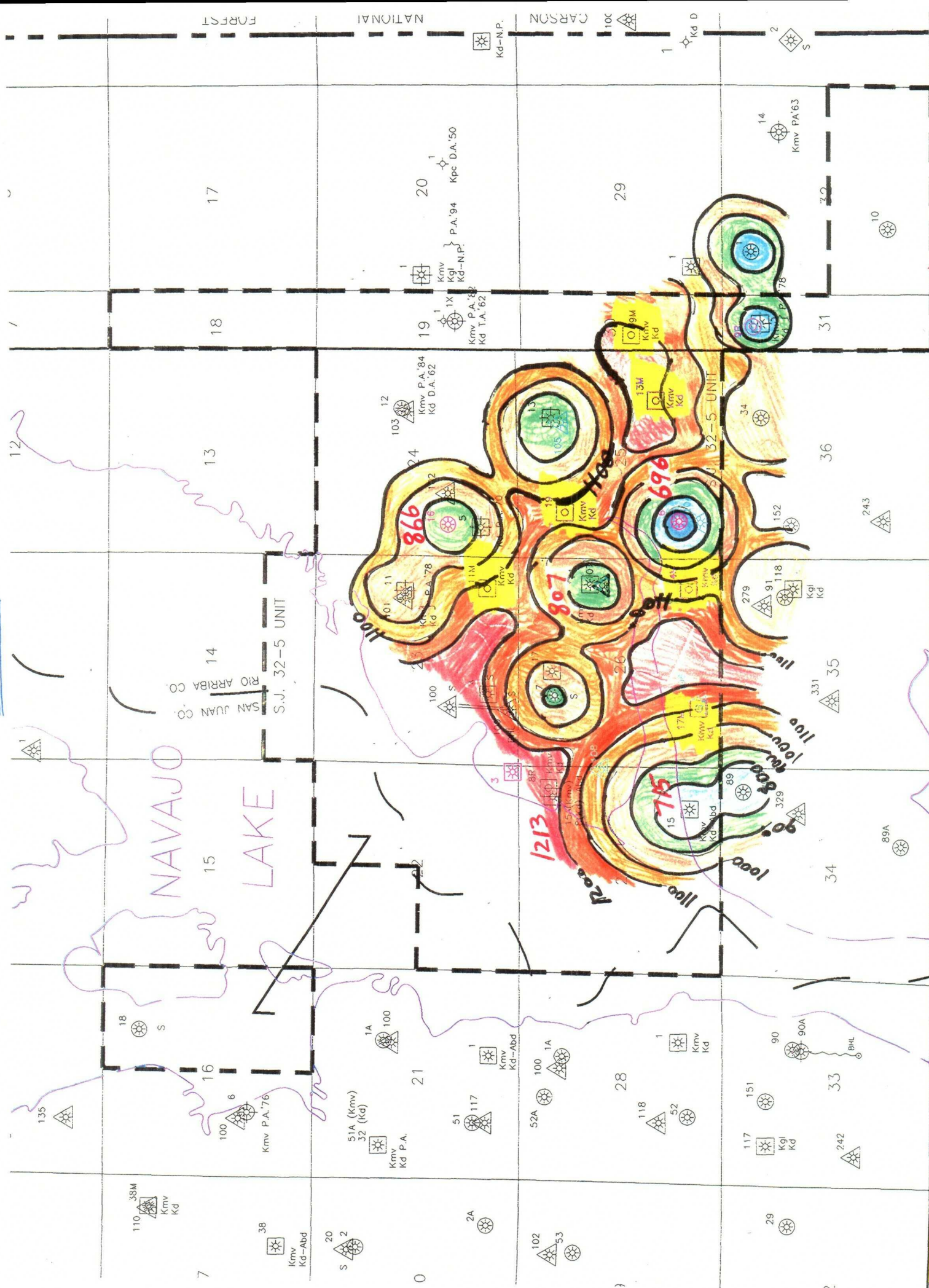
INITIAL BHP

PROPOSED DK/MV
COMPARING ES

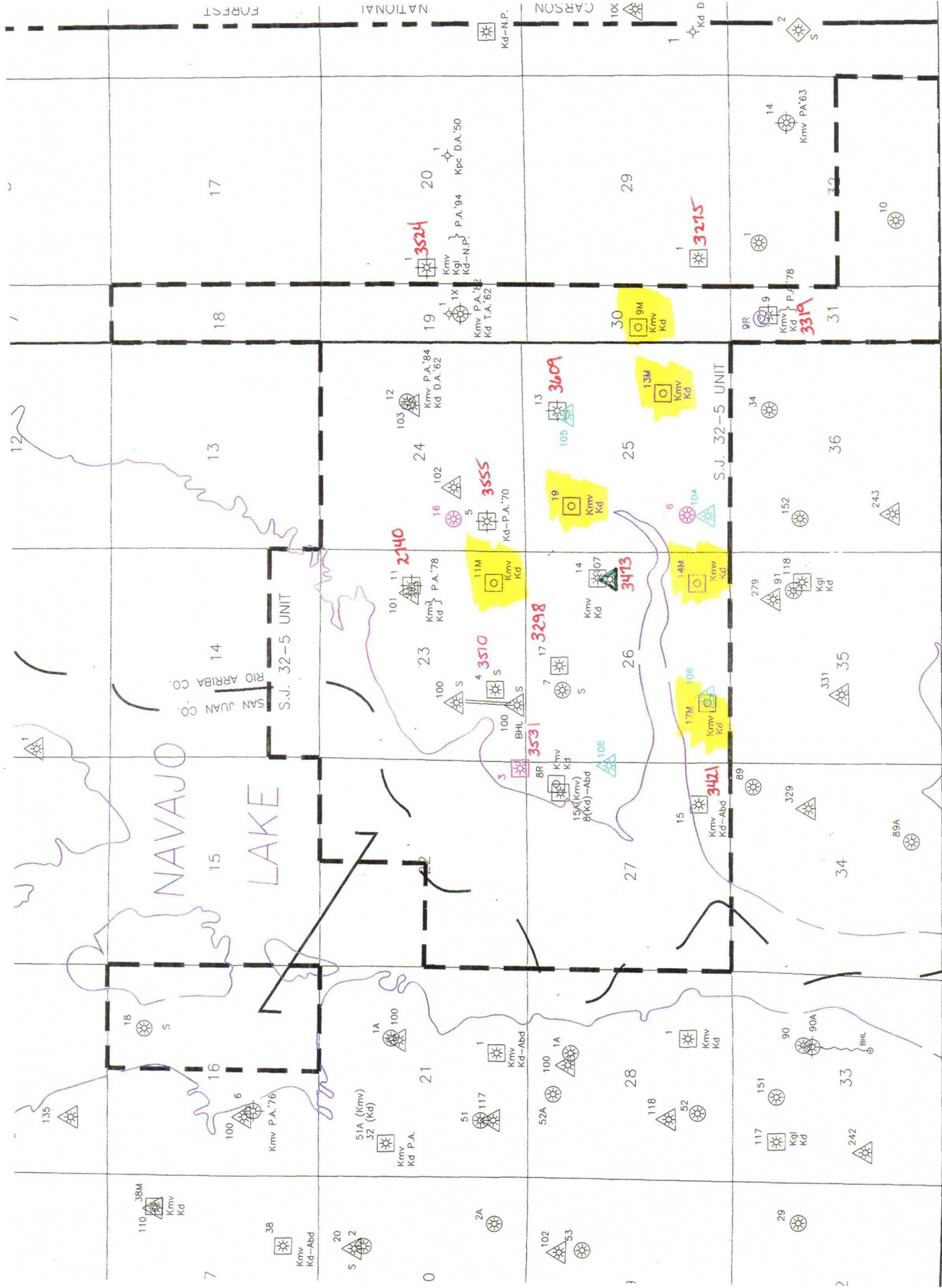
DAKOTA CURRENT BHP

1277 - MEASURED
1265 - ESTIMATED

EXHIBIT 3A



Proposed MV/DK Conningles Mesaverde Current BHP (Measured)



PROPOSED DR/MV COMMINGLES

DAKOTA INITIAL BHP

EXHIBIT 2 B

BHP/Z vs cum gas calculation

(C) Copyright 1993-1997

by Douglas M Boone

Version 5.0

26-Jun-98

Well Name Quintana Mesa #1

Gas gravity 0.67 SG

Condensate (yes=1) 1

Reservoir Temp 190 F

Surface temp 70 F

Depth of zone 8,288 feet

Abandonment press 300 psia

% N2: 0.00

% CO2: 0.00

% H2S: 0.00

For manual Curve:

Pi/Zi manual 0

GIP manual 0

**Gas in place

1,048,464 Mcf

**Recoverable Gas

962,656 Mcf

Enter BHP
if known

Cum Gas
Mcf

Surf Pres
psia

BHP
psia

EST.
CURRENT BHP
Z

BHP/Z

0	0	2,633	3,275	0.8935	3,666
0	647,000	1,030	1,265	0.9014	1,404
0	928,000	331	398	0.9639	413

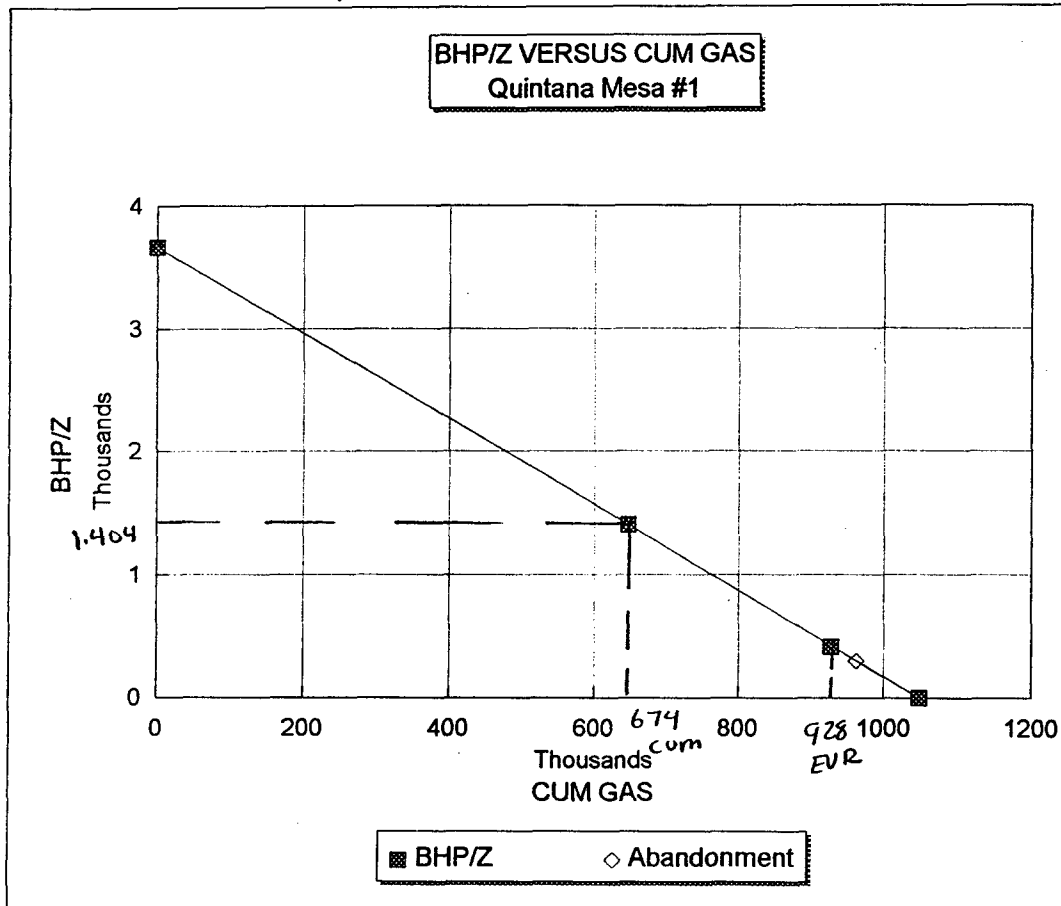


EXHIBIT 4A

BHP/Z vs cum gas calculation

(C) Copyright 1993-1997
by Douglas M Boone
Version 5.0
26-Jun-98

Well Name 32-5 Unit #3

Gas gravity	0.67 SG	% N2:	0.00
Condensate (yes=1)	1	% CO2:	0.00
Reservoir Temp	190 F	% H2S:	0.00
Surface temp	70 F	For manual Curve:	
Depth of zone	8,044 feet	Pi/Zi manual	0
Abandonment press	300 psia	GIP manual	0

**Gas in place	1,585,698 Mcf				
**Recoverable Gas	1,463,802 Mcf				
Enter BHP if known	Cum Gas Mcf	Surf Pres psia	BHP psia	Z	BHP/Z
0	0	2,866	3,531	0.9049	3,903
0	1,215,000	700	847	0.9282	912
0	1,415,000	331	396	0.9641	411

EST CURRENT BHP

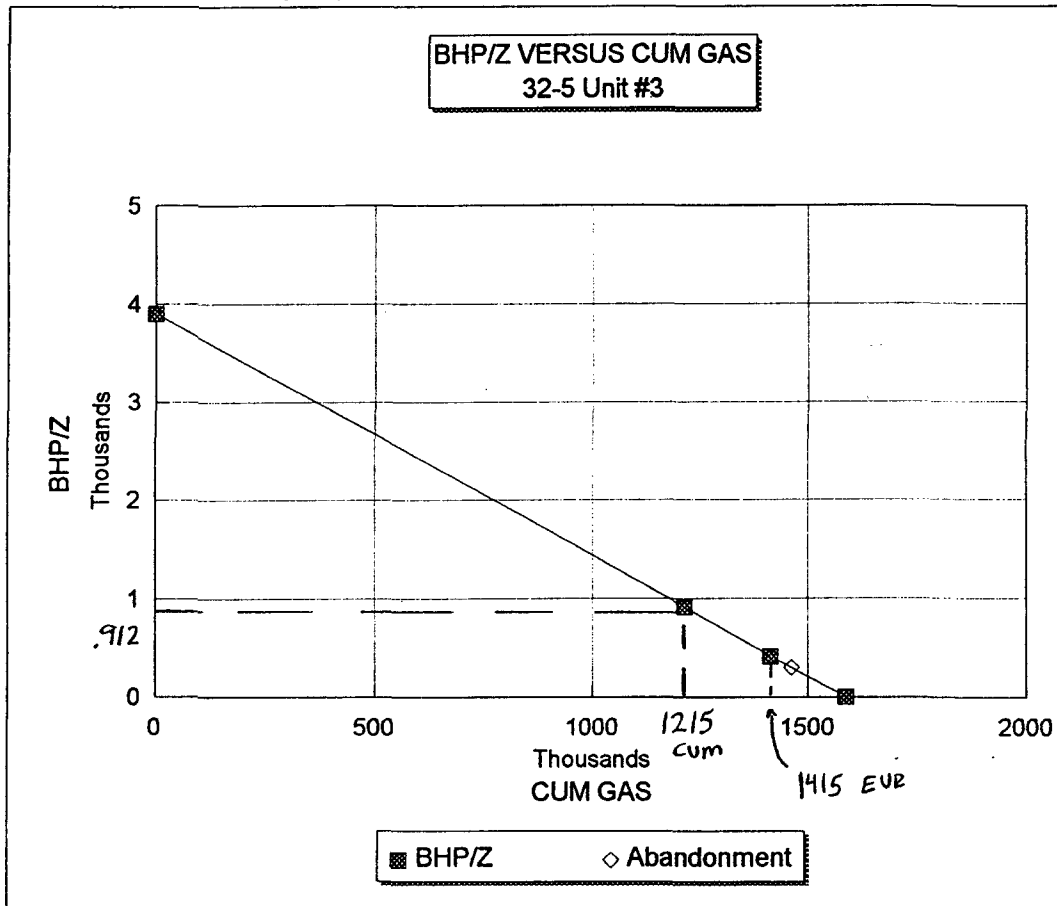


EXHIBIT 4B

BHP/Z vs cum gas calculation

(C) Copyright 1993-1997

by Douglas M Boone

Version 5.0

26-Jun-98

Well Name 32-5 Unit #17

Gas gravity 0.67 SG
 Condensate (yes=1) 1
 Reservoir Temp 190 F
 Surface temp 70 F
 Depth of zone 8,038 feet
 Abandonment press 300 psia

% N2: 0.00
 % CO2: 0.00
 % H2S: 0.00
 For manual Curve:
 Pi/Zi manual 0
 GIP manual 0

**Gas in place 2,924,627 Mcf
 **Recoverable Gas 2,686,695 Mcf

Enter BHP if known	Cum Gas Mcf	Surf Pres psia	BHP psia	Z	BHP/Z
0	0	2,670	3,298	0.8945	3,688
0	1,972,000	900	1,095	0.9114	1,201
0	2,585,000	331	396	0.9641	411

EST
CURRENT BHP

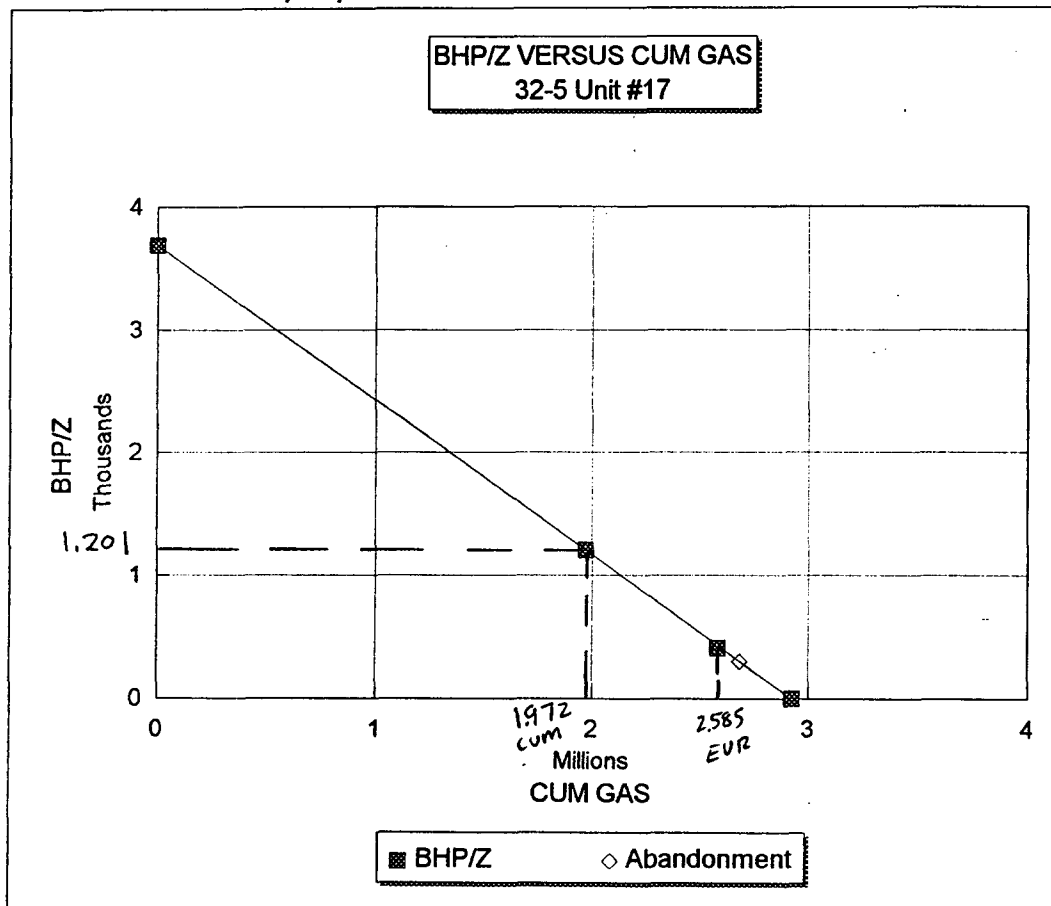


EXHIBIT 4c

BHP/Z vs cum gas calculation

(C) Copyright 1993-1997

by Douglas M Boone

Version 5.0

26-Jun-98

Well Name

32-5 Unit #4

Gas gravity

0.67 SG

% N2:

0.00

Condensate (yes=1)

1

% CO2:

0.00

Reservoir Temp

190 F

% H2S:

0.00

Surface temp

70 F

For manual Curve:

Depth of zone

7,970 feet

Pi/Zi manual

0

Abandonment press

300 psia

GIP manual

0

**Gas in place

2,817,866 Mcf

**Recoverable Gas

2,600,150 Mcf

Enter BHP
if known

Cum Gas
Mcf

Surf Pres
psia

BHP
psia

Z

BHP/Z

0

0

2,853

3,510

0.9039

3,883

0

1,759,000

1,075

1,312

0.8990

1,459

0

2,509,000

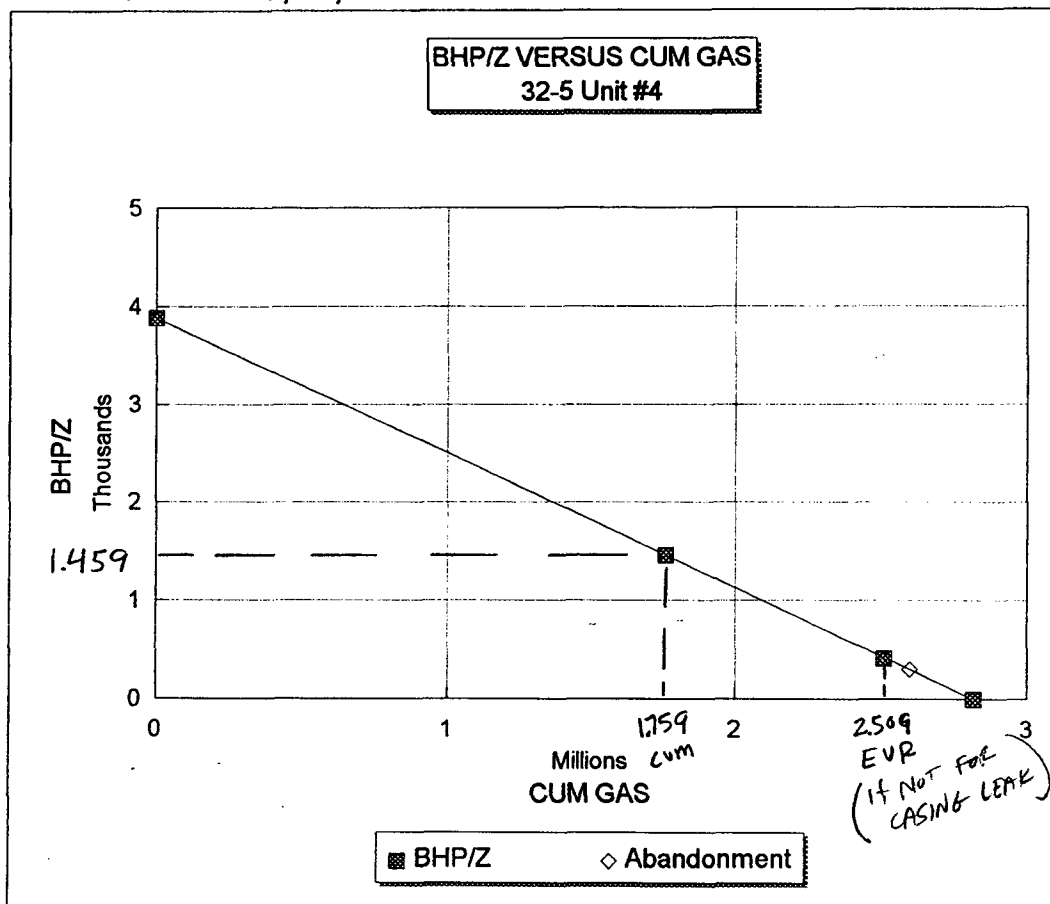
331

396

0.9641

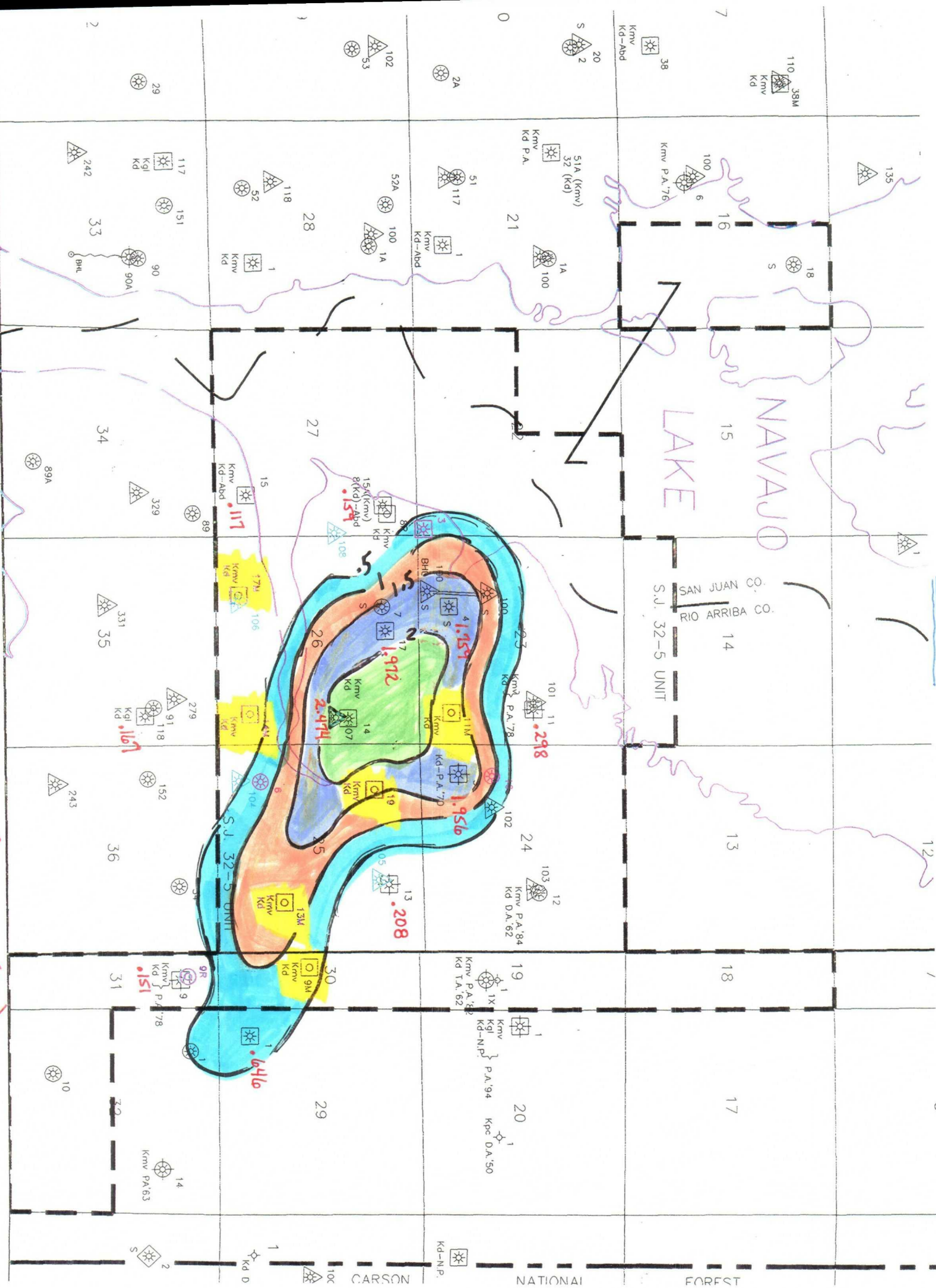
410

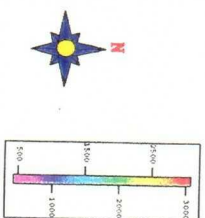
EST
CURRENT BHP



EXAMPLE CALCULATION SHOWING ACCURACY
OF METHOD. MEASURED BHP OF 1277 PSI
MATCHES CLOSELY WITH ESTIMATE OF 1312 PSI

EXHIBIT 4D





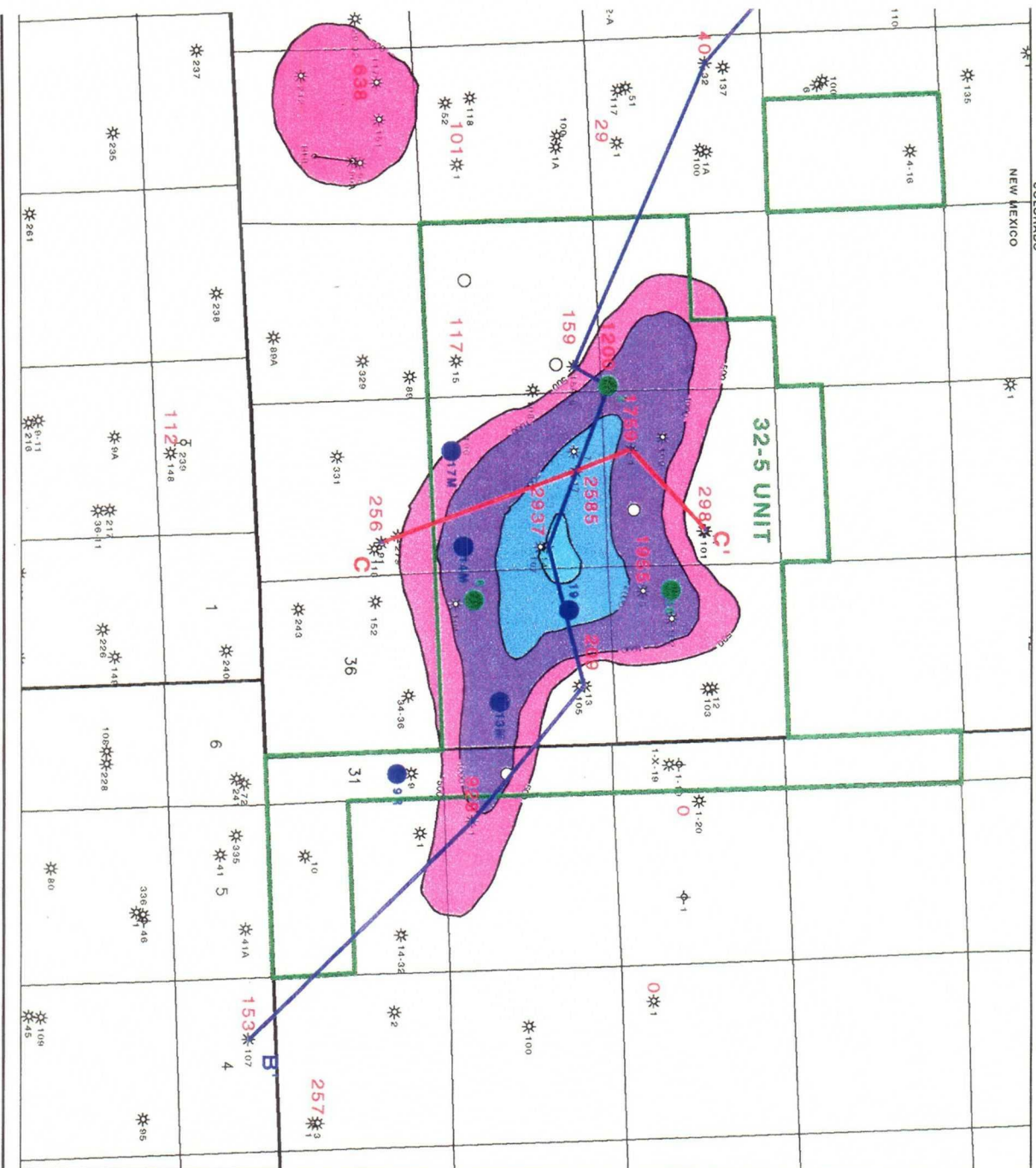
LEGEND

- 1988 NEW DRILLS
- 1998 PAY ADDS
- 1999 NEW DRILLS

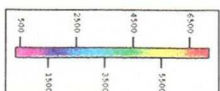
TAVIRIS	
SAN JUAN 32-5 UNIT	
GEOLOGY: G. JENNINGS	
22	
San Juan	
	4/2/90

R 6 W

R 5 W



DAKOTA EUR
32-5 UNIT
(MMCF)



LEGEND
● 1998 NEW DRILLS
● 1998 PAY ADDS
○ 1999 NEW DRILLS

TARMS	
SAN JUAN 32-5 UNIT	
GEOLOGIC, G. JENNINGS	
48	48

PROPOSEN MV-DK COMMINGLES

MV-DK COMMINGLES

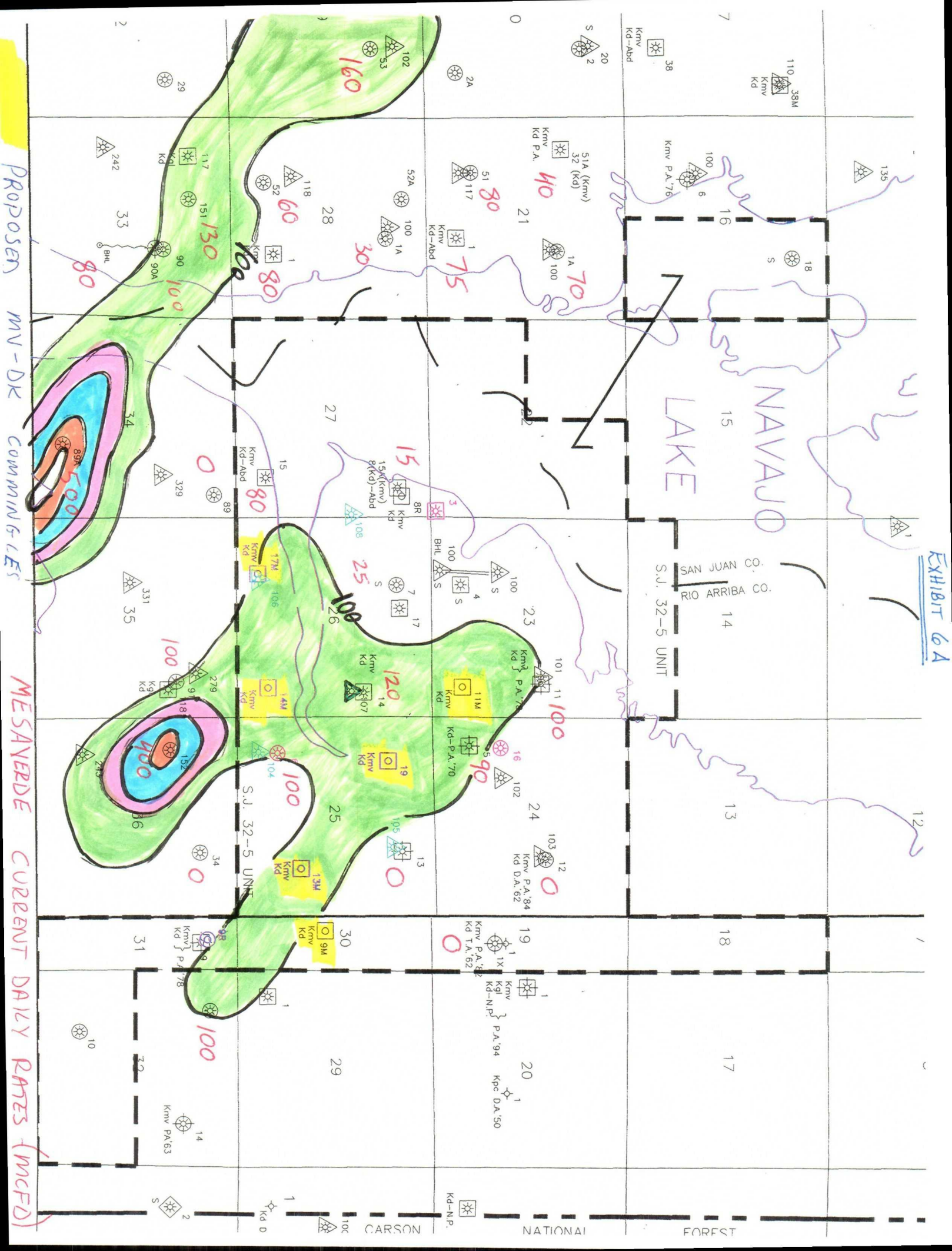
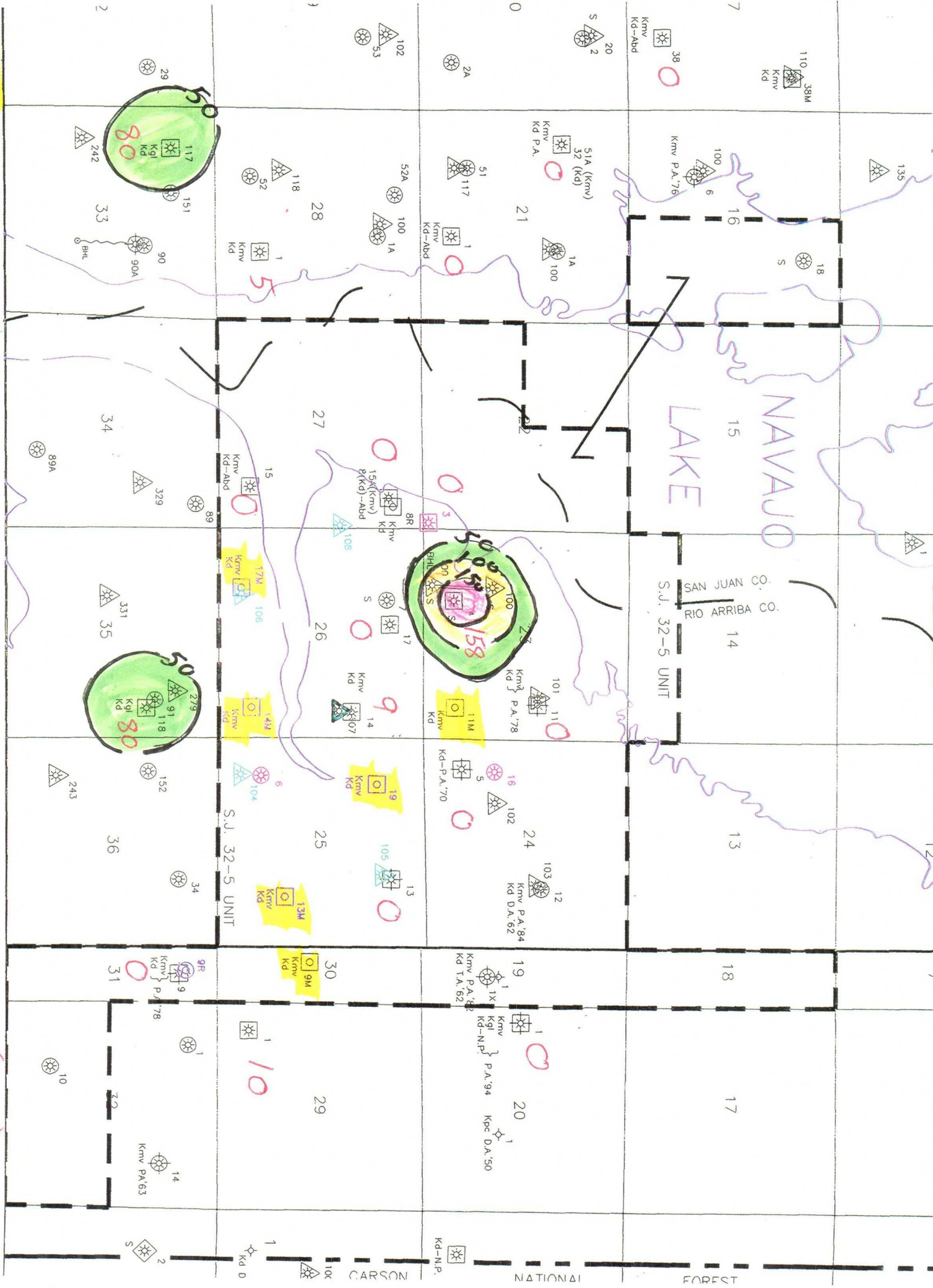
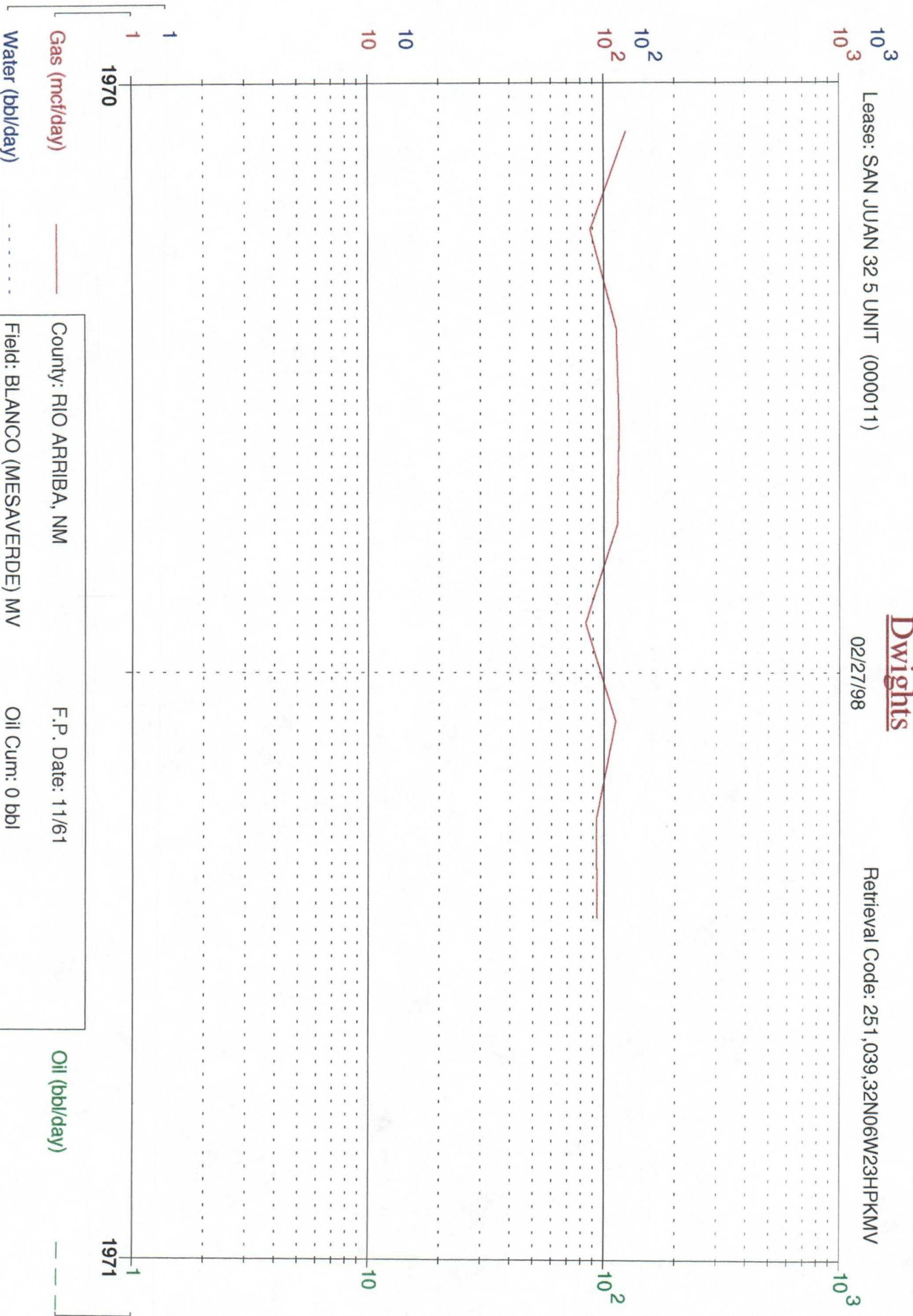


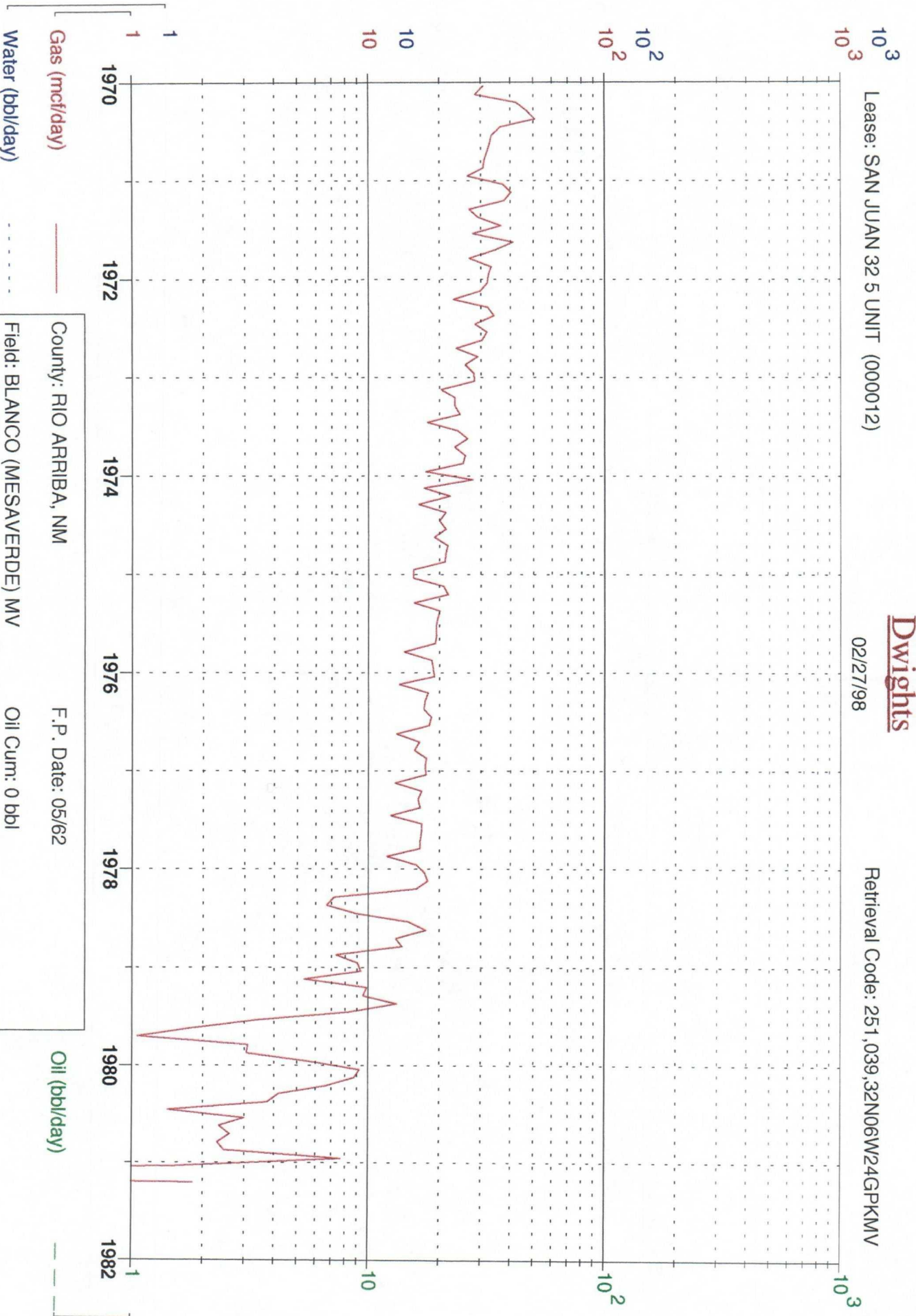
EXHIBIT 6B



PROPOSED MV/DK COMMINGLES
DAKOTA CURRANT PATES (MCFD)



County: RIO ARRIBA, NM F.P. Date: 11/61
Field: BLANCO (MESAVERDE) MV Oil Cum: 0 bbl
Reservoir: MESAVERDE Gas Cum: 546.8 mmcf
Operator: EL PASO NATURAL GAS CO Location: 23H 32N 6W



Gas (mcf/day)

Water (bbl/day)

County: RIO ARriba, NM

Field: BLANCO (MESAVERDE) MV

Reservoir: MESAVERDE

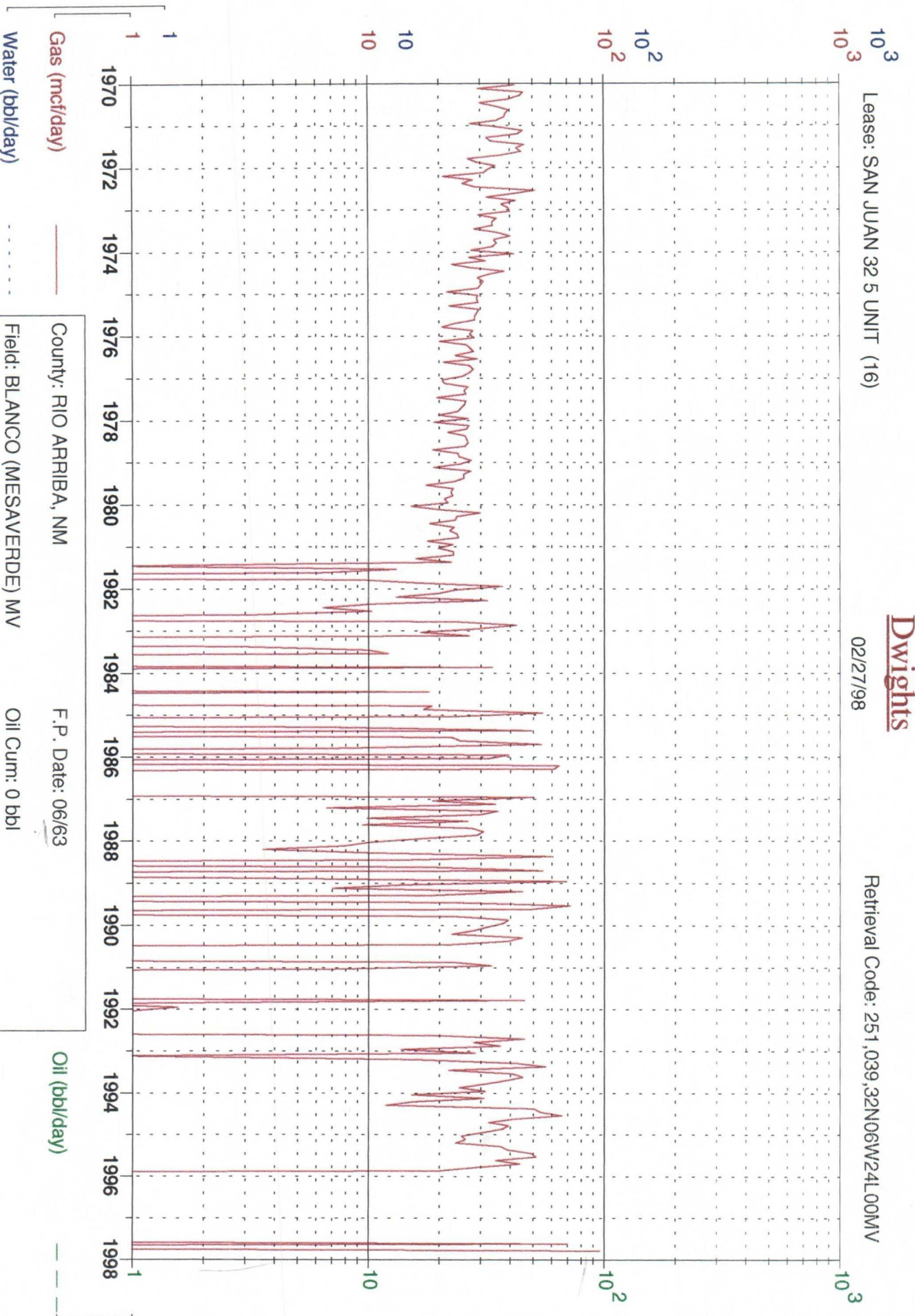
Operator: EL PASO NATURAL GAS CO

F.P. Date: 05/62

Oil Cum: 0 bbl

Gas Cum: 154.1 mmmcf

Location: 24G 32N 6W



County: RIO ARRIBA, NM

F.P. Date: 06/63

Field: BLANCO (MESAVERDE) MV

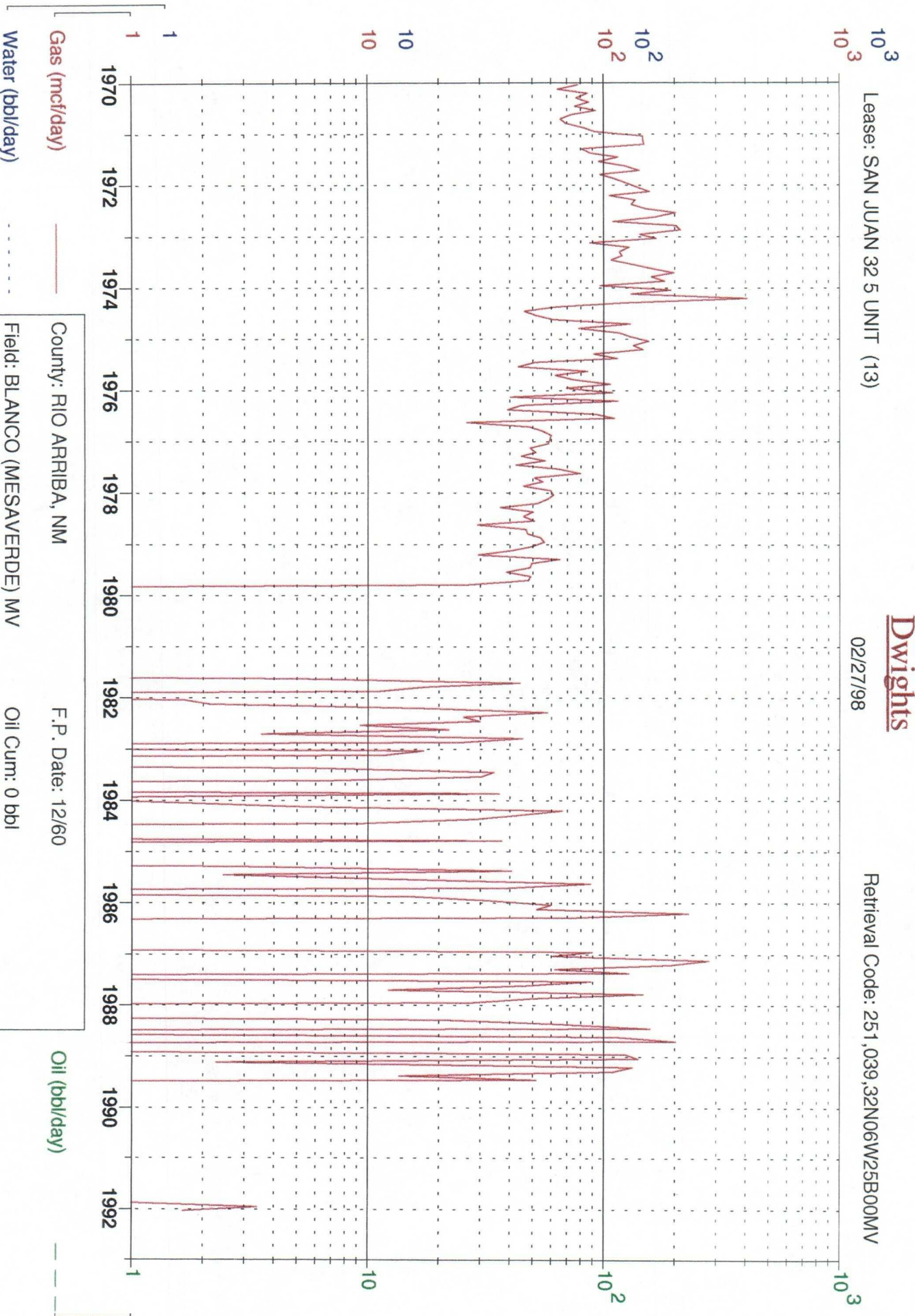
Oil Cum: 0 bbl

Reservoir: MESAVERDE

Gas Cum: 348.3 mmcf

Operator: BURLINGTON RES O&G CO

Location: 24L 32N 6W



County: RIO ARRIBA, NM

F.P. Date: 12/60

Field: BLANCO (MESAVERDE) MV

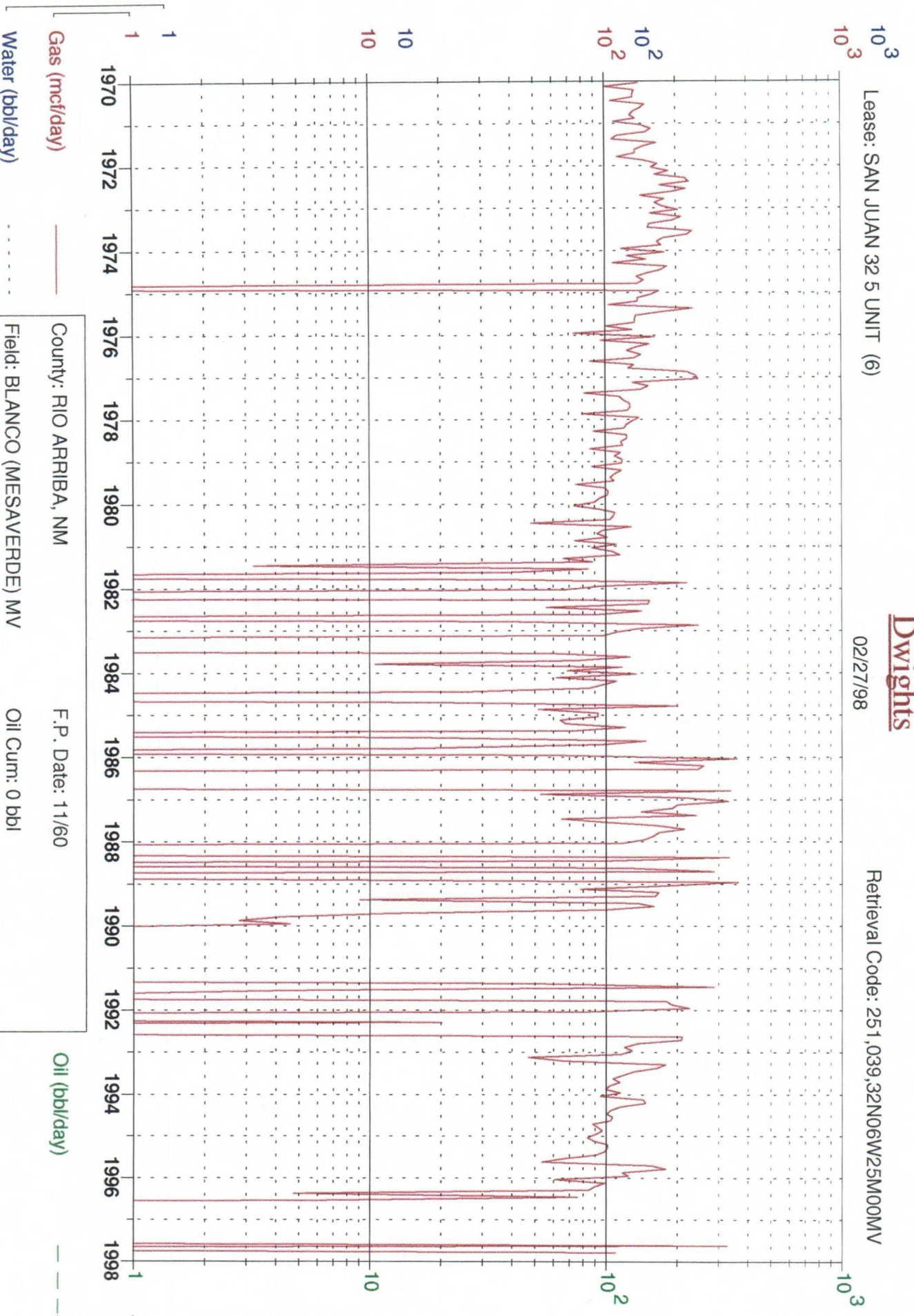
Oil Cum: 0 bbl

Reservoir: MESAVERDE

Gas Cum: 908.6 mmcf

Operator: BURLINGTON RES O&G CO

Location: 25B 32N 6W



County: RIO ARriba, NM

F.P. Date: 11/60

Field: BLANCO (MESAVARDE) MV

Oil Cum: 0 bbl

Reservoir: MESAVARDE

Gas Cum: 1742 mmcf

Operator: BURLINGTON RES O&G CO

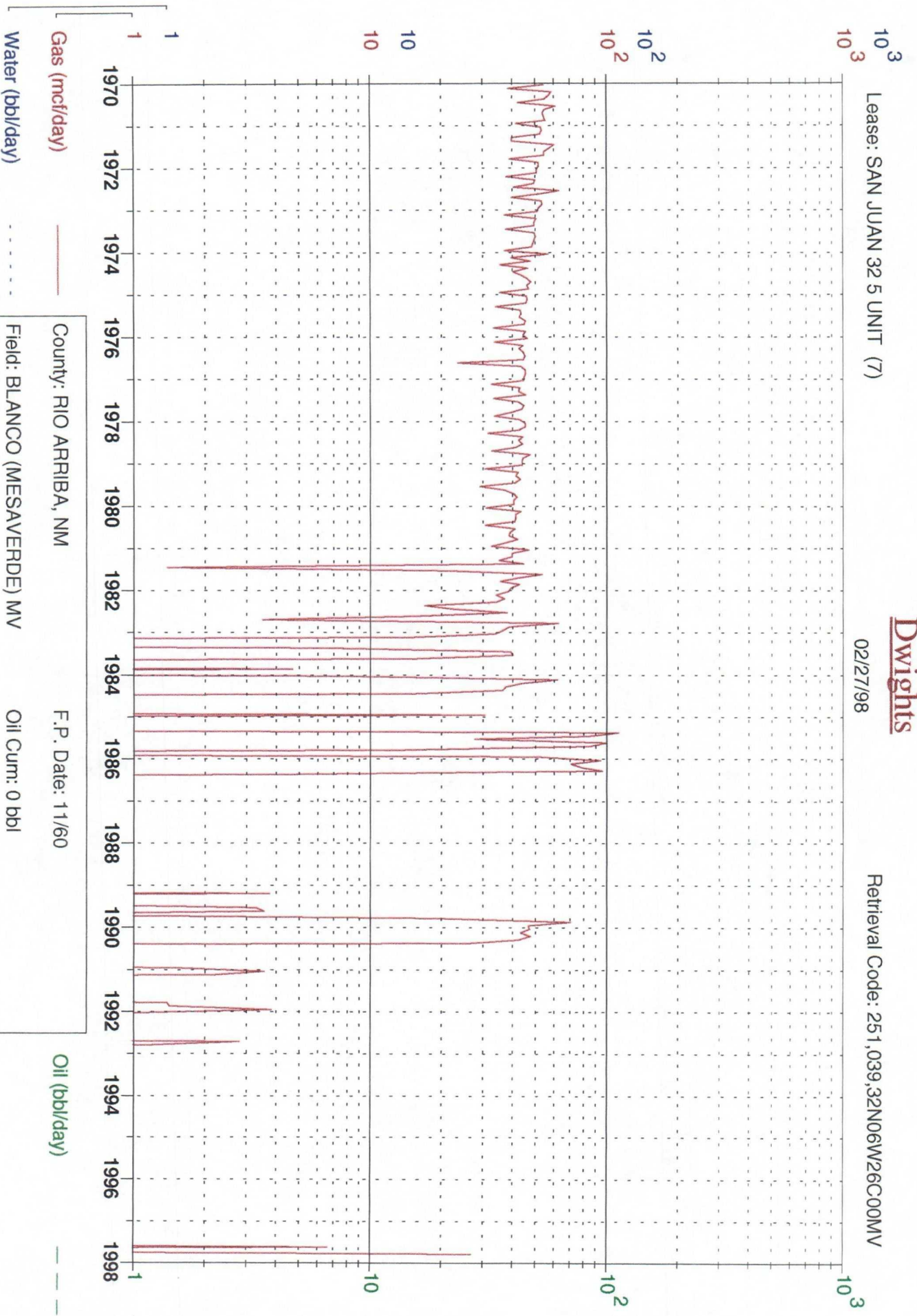
Location: 25M 32N 6W

Dwights

Lease: SAN JUAN 32 5 UNIT (7)

02/27/98

Retrieval Code: 251,039,32N06W26C00MV



Gas (mcf/day)

Water (bbl/day)

County: RIO ARriba, NM

Field: BLANCO (MESAVERDE) MV

Reservoir: MESAVERDE

Operator: BURLINGTON RES O&G CO

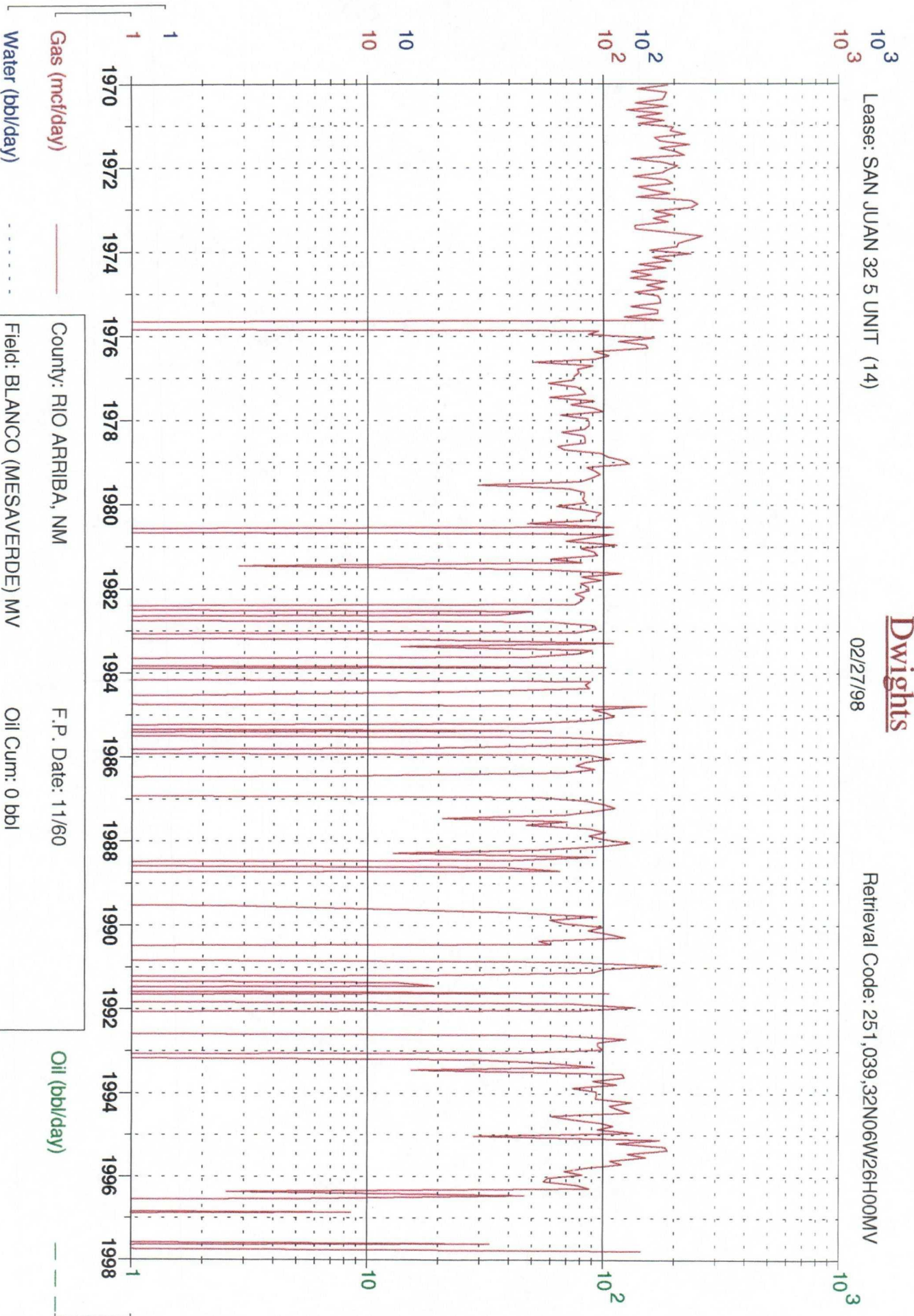
F.P. Date: 11/60

Oil Cum: 0 bbl

Gas Cum: 488.1 mmmcf

Location: 26C 32N 6W

Oil (bbl/day)



County: RIO ARriba, NM

F.P. Date: 11/60

Field: BLANCO (MESAVERDE) MV

Oil Cum: 0 bbl

Reservoir: MESAVERDE

Gas Cum: 1563 mmcf

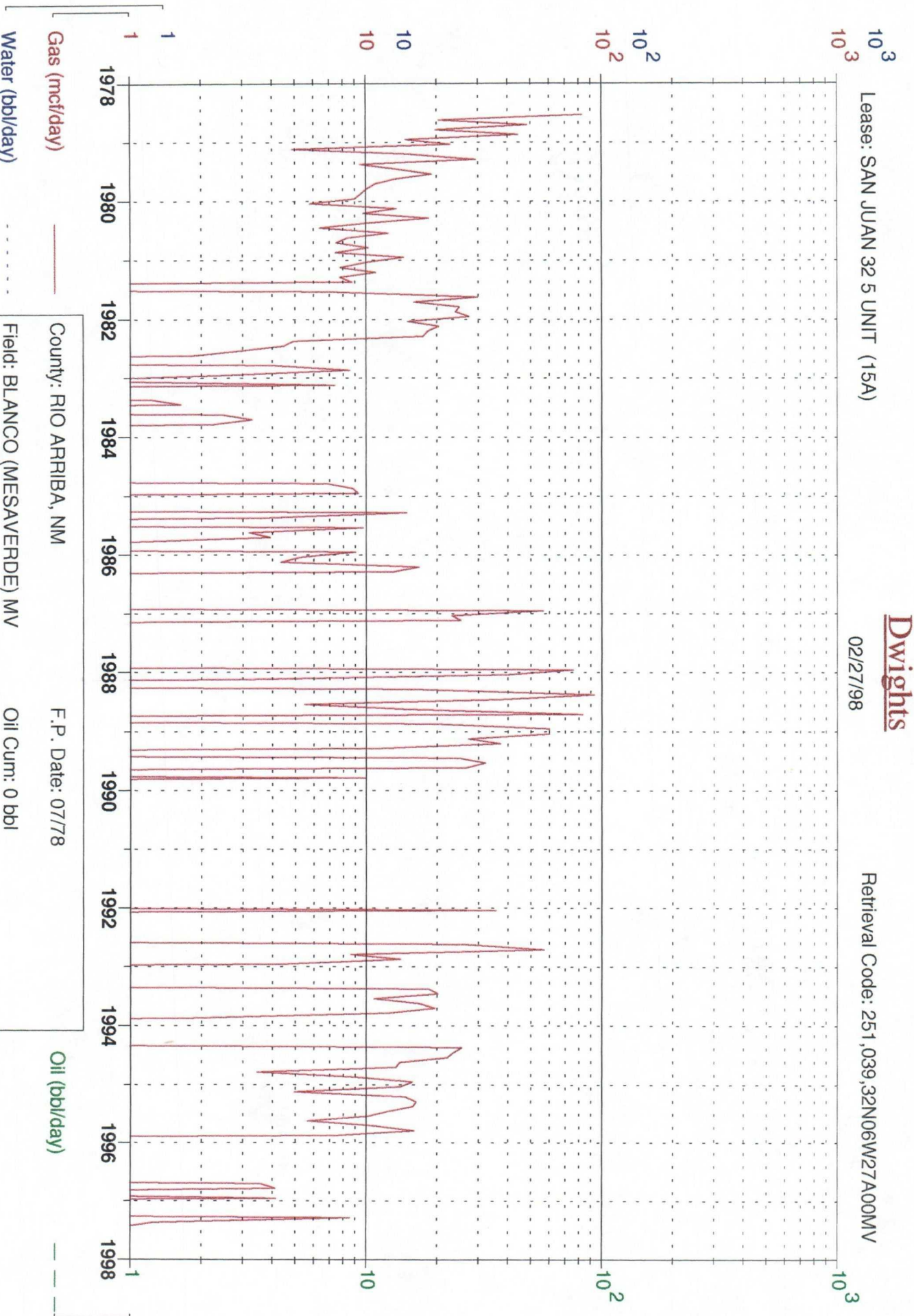
Operator: BURLINGTON RES O&G CO

Location: 26H 32N 6W

Lease: SAN JUAN 32.5 UNIT (15A)

02/27/98

Retrieval Code: 251,039,32N06W27A00MV



County: RIO ARriba, NM

F.P. Date: 07/78

Field: BLANCO (MESAVARDE) MV

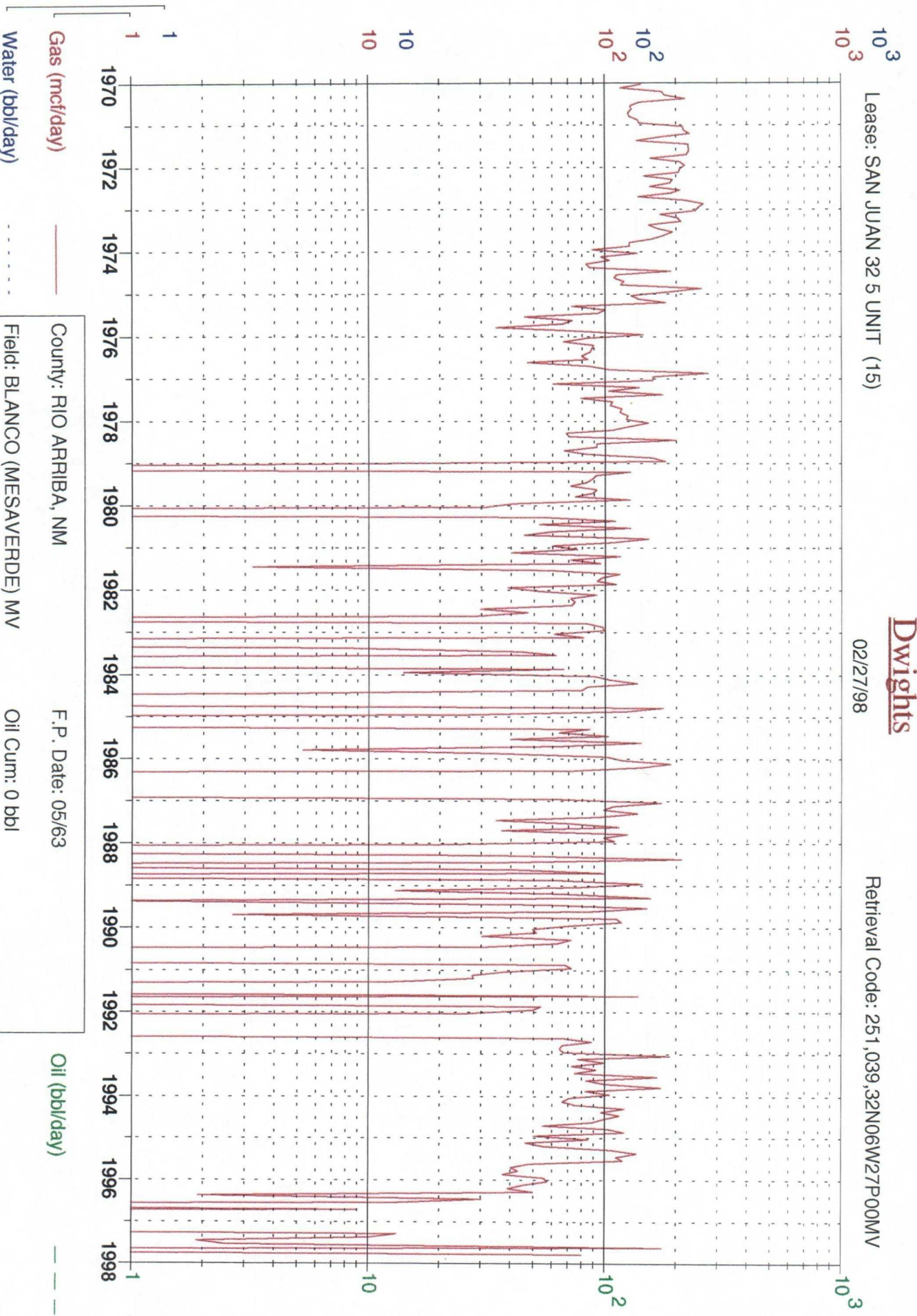
Oil Cum: 0 bbl

Reservoir: MESAVARDE

Gas Cum: 67.81 mmcf

Operator: BURLINGTON RES O&G CO

Location: 27A 32N 6W



County: RIO ARriba, NM

F.P. Date: 05/63

Field: BLANCO (MESAVERDE) MV

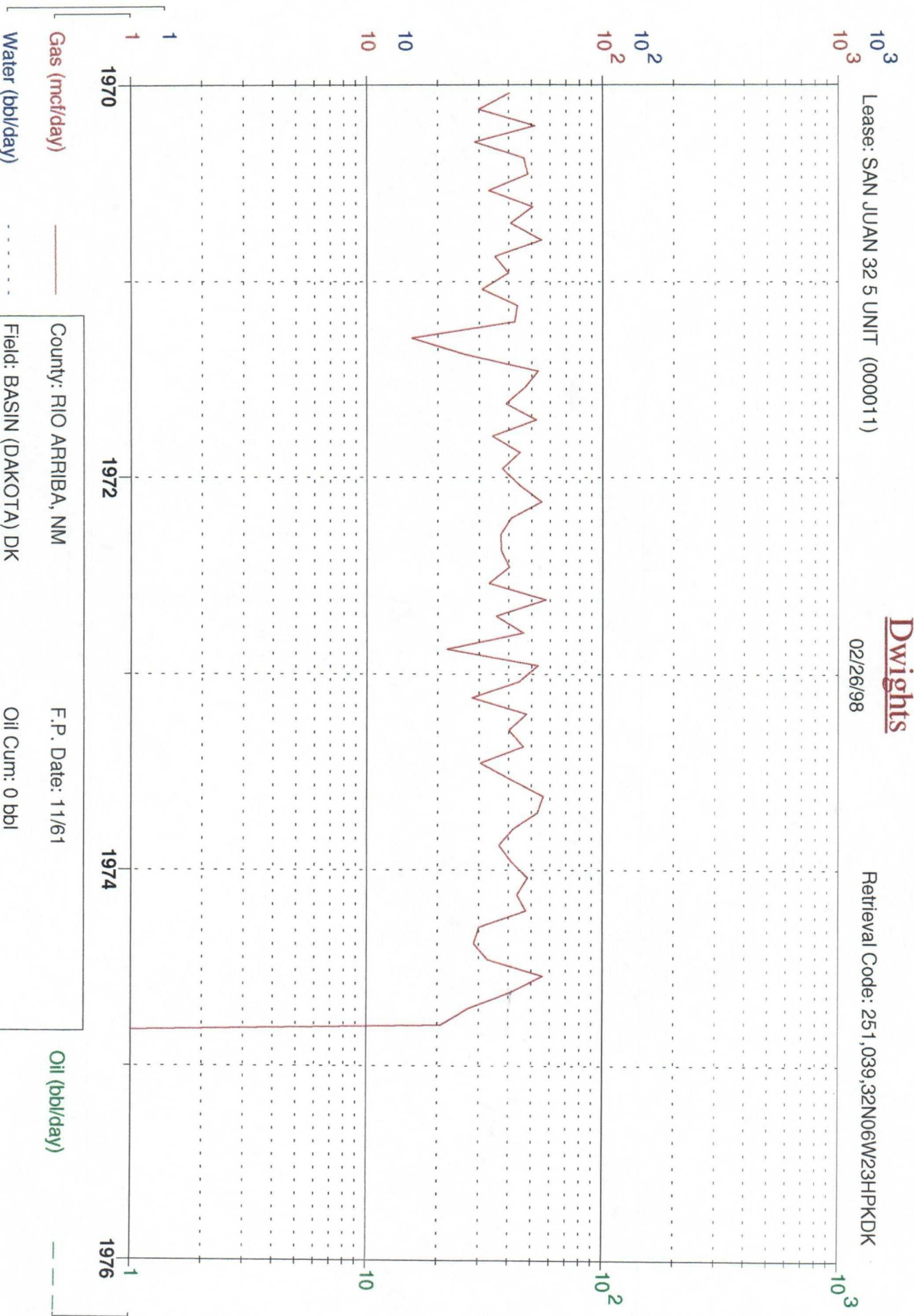
Oil Cum: 0 bbl

Reservoir: MESAVERDE

Gas Cum: 1227 mmcf

Operator: BURLINGTON RES O&G CO

Location: 27P 32N 6W



Gas (mcf/day)

Water (bbl/day)

Oil (bbl/day)

County: RIO ARRIIBA, NM

F.P. Date: 11/61

Field: BASIN (DAKOTA) DK

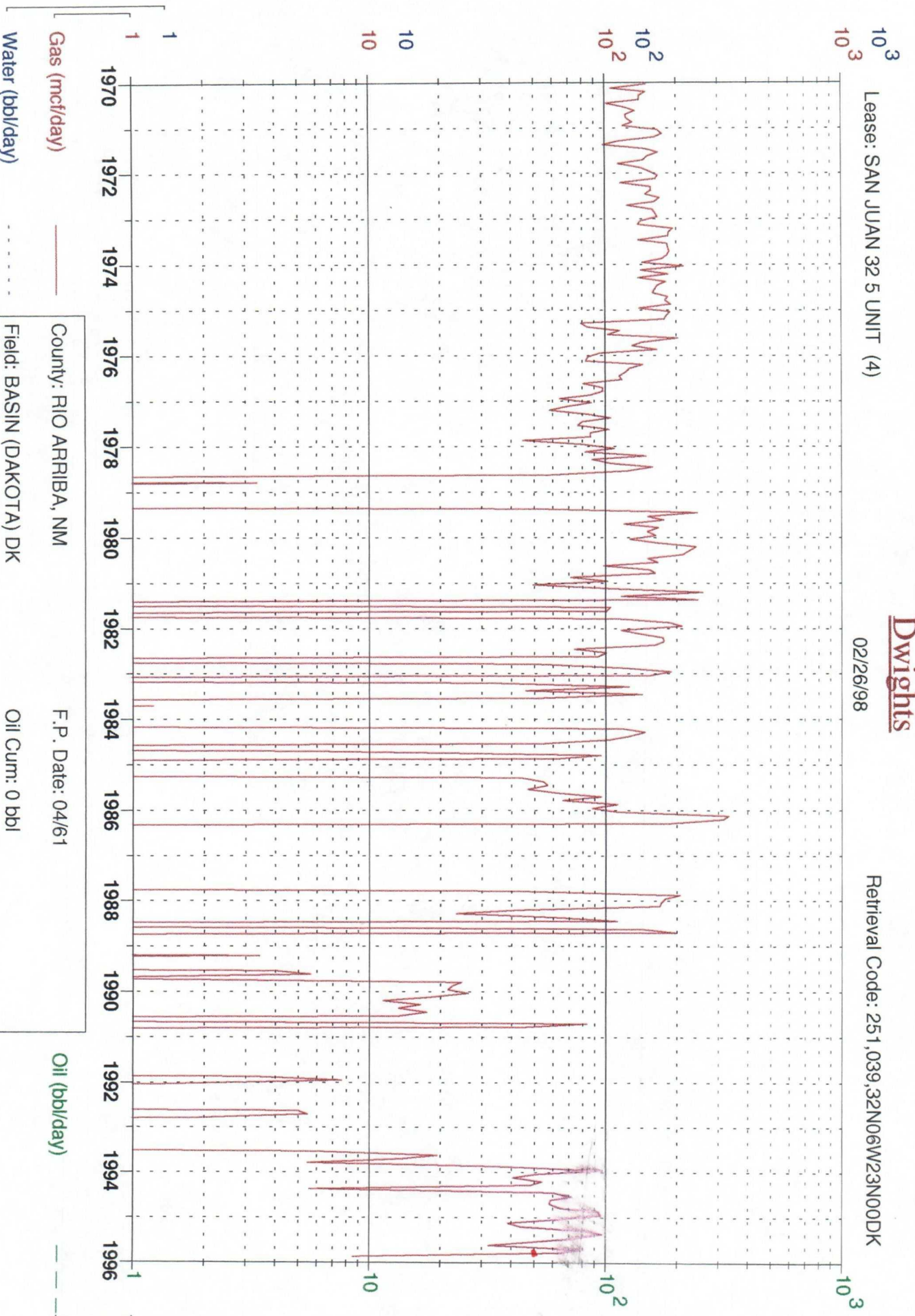
Oil Cum: 0 bbl

Reservoir: DAKOTA

Gas Cum: 298.0 mmcf

Operator: EL PASO NATURAL GAS CO

Location: 23H 32N 6W



County: RIO ARriba, NM

F.P. Date: 04/61

Field: BASIN (DAKOTA) DK

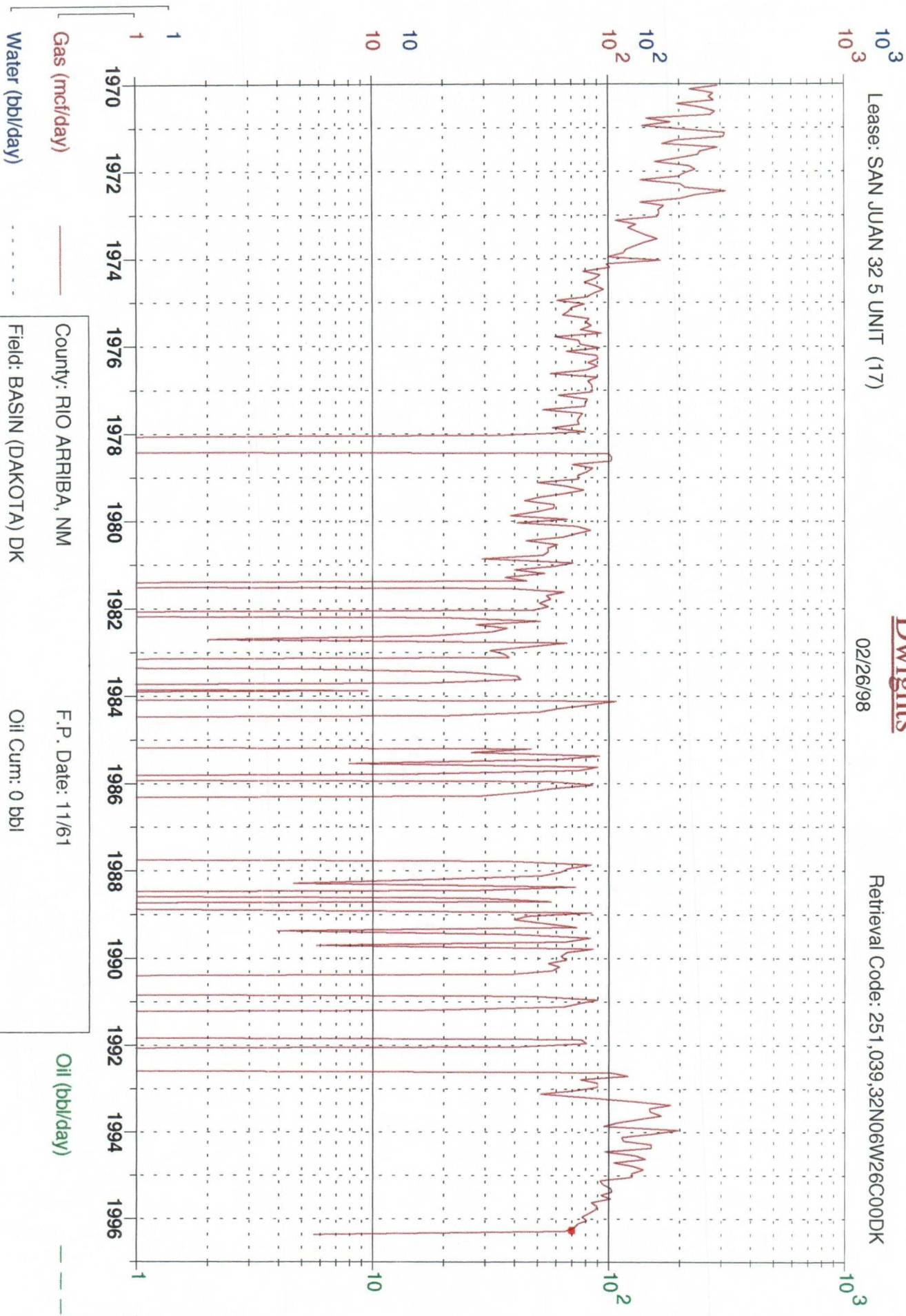
Oil Cum: 0 bbl

Reservoir: DAKOTA

Gas Cum: 1759 mmcf

Operator: BURLINGTON RES O&G CO

Location: 23N 32N 6W



County: RIO ARriba, NM

F.P. Date: 11/61

Field: BASIN (DAKOTA) DK

Oil Cum: 0 bbl

Reservoir: DAKOTA

Gas Cum: 1972 mmcf

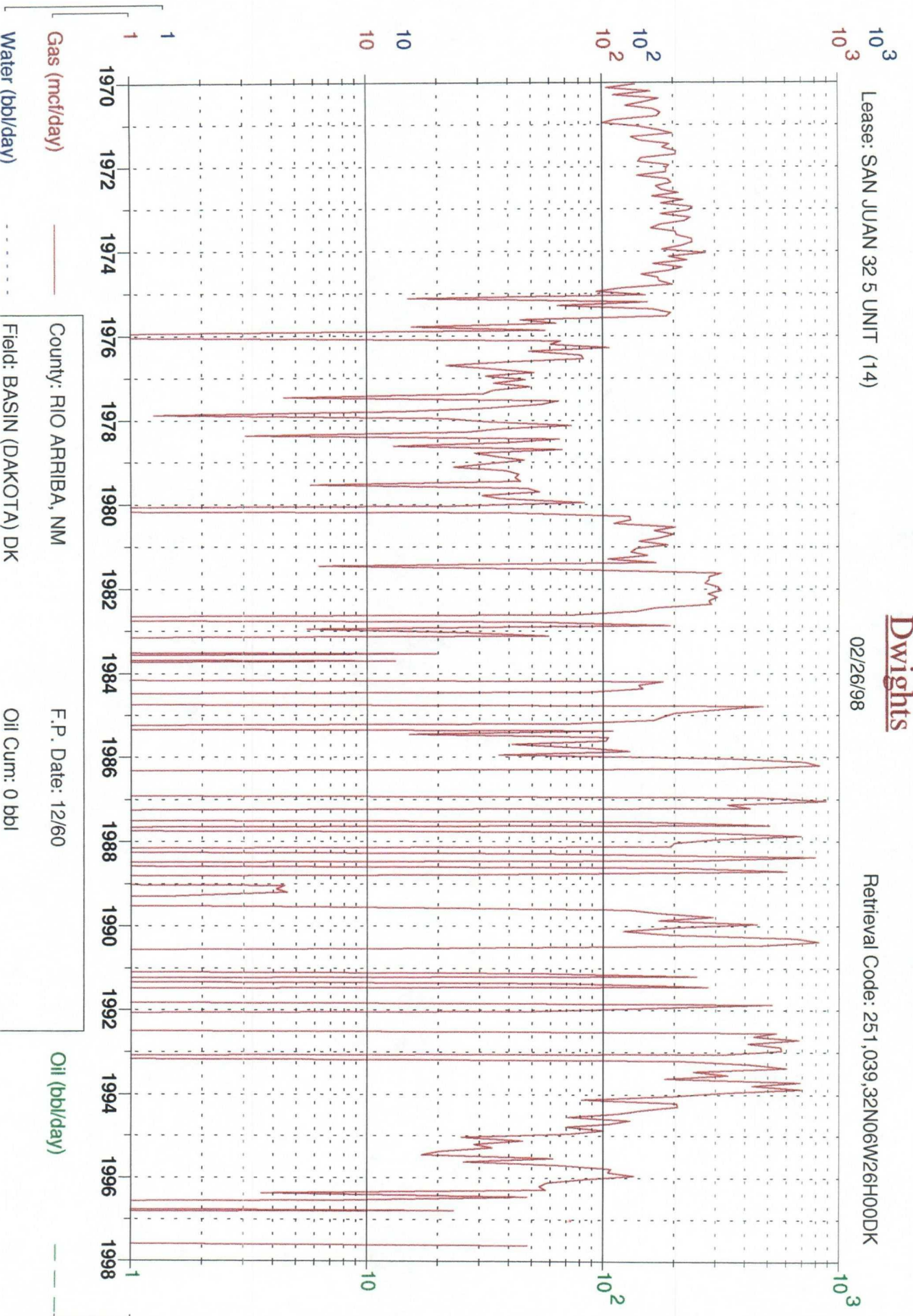
Operator: BURLINGTON RES O&G CO

Location: 26C 32N 6W

Lease: SAN JUAN 32 5 UNIT (14)

02/26/98

Retrieval Code: 251,039,32N06W26H00DK



County: RIO ARriba, NM

F.P. Date: 12/60

Field: BASIN (DAKOTA) DK

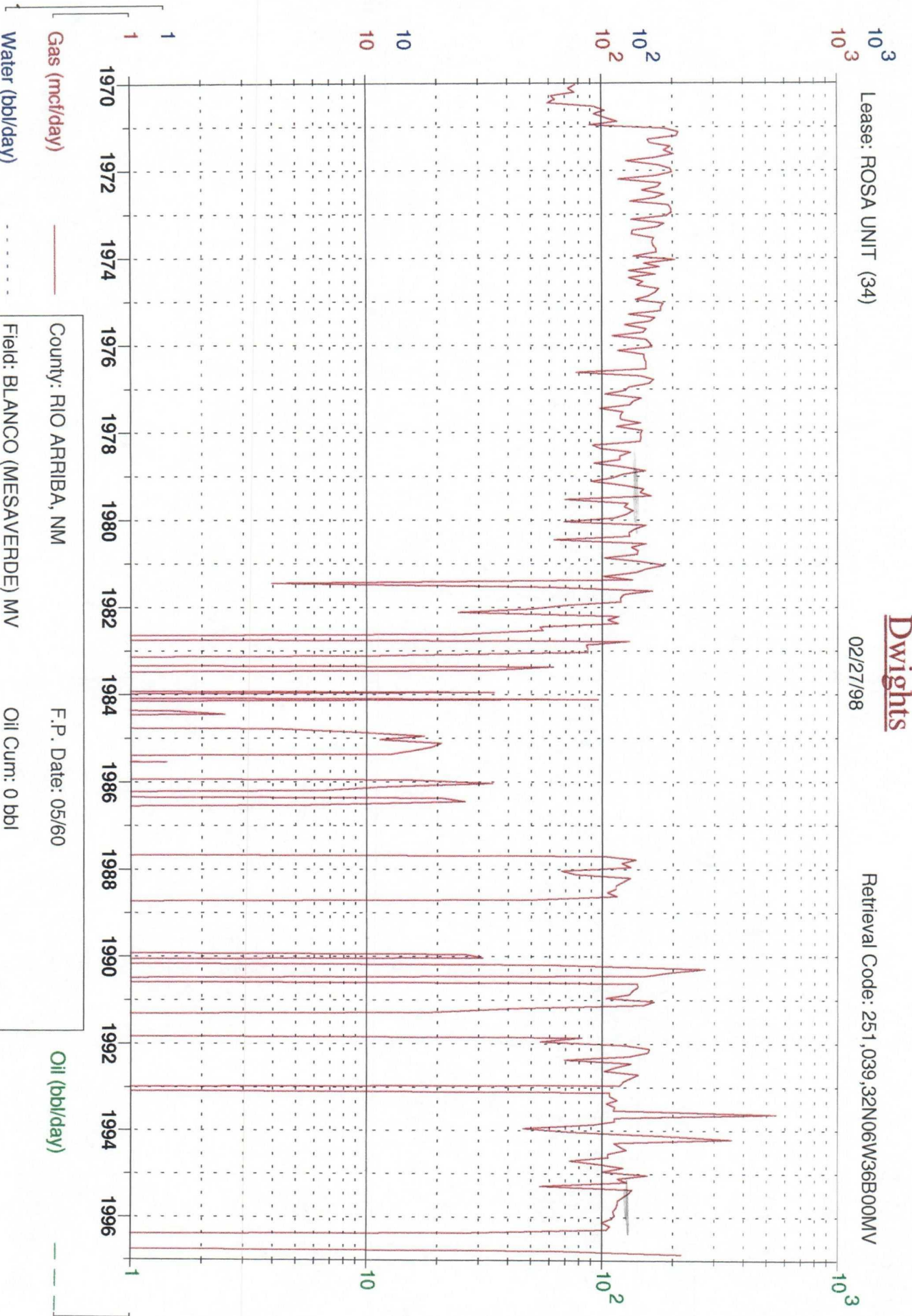
Oil Cum: 0 bbl

Reservoir: DAKOTA

Gas Cum: 2474 mmcf

Operator: BURLINGTON RES O&G CO

Location: 26H 32N 6W



County: RIO ARriba, NM

F.P. Date: 05/60

Field: BLANCO (MESAVERDE) MV

Oil Cum: 0 bbl

Reservoir: MESAVERDE

Gas Cum: 1659 mmcf

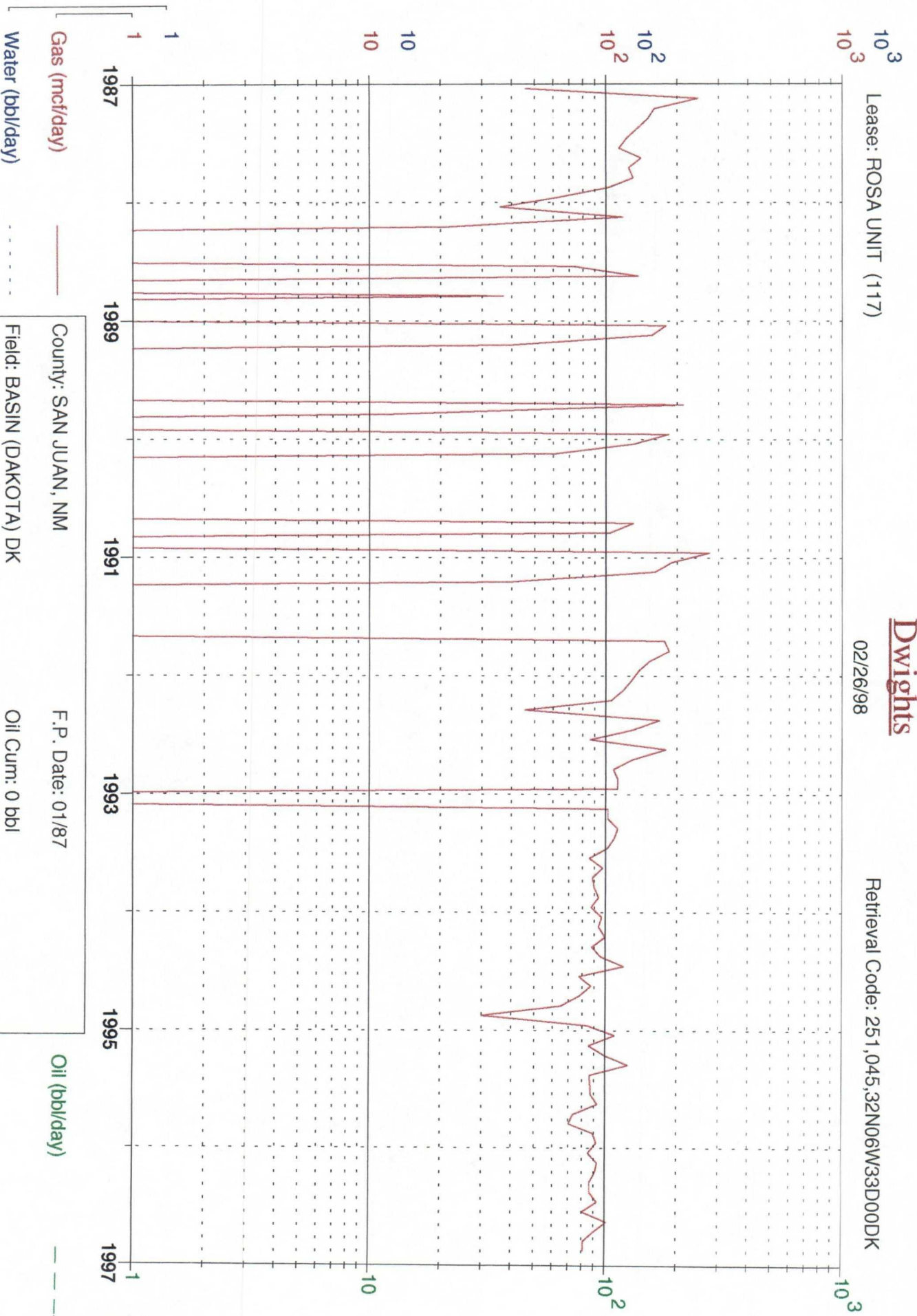
Operator: WILLIAMS PRODUCTION CO

Location: 36B 32N 6W

Lease: ROSA UNIT (117)

Dwights
02/26/98

Retrieval Code: 251,045,32N06W33D00DK



County: SAN JUAN, NM

F.P. Date: 01/87

Field: BASIN (DAKOTA) DK

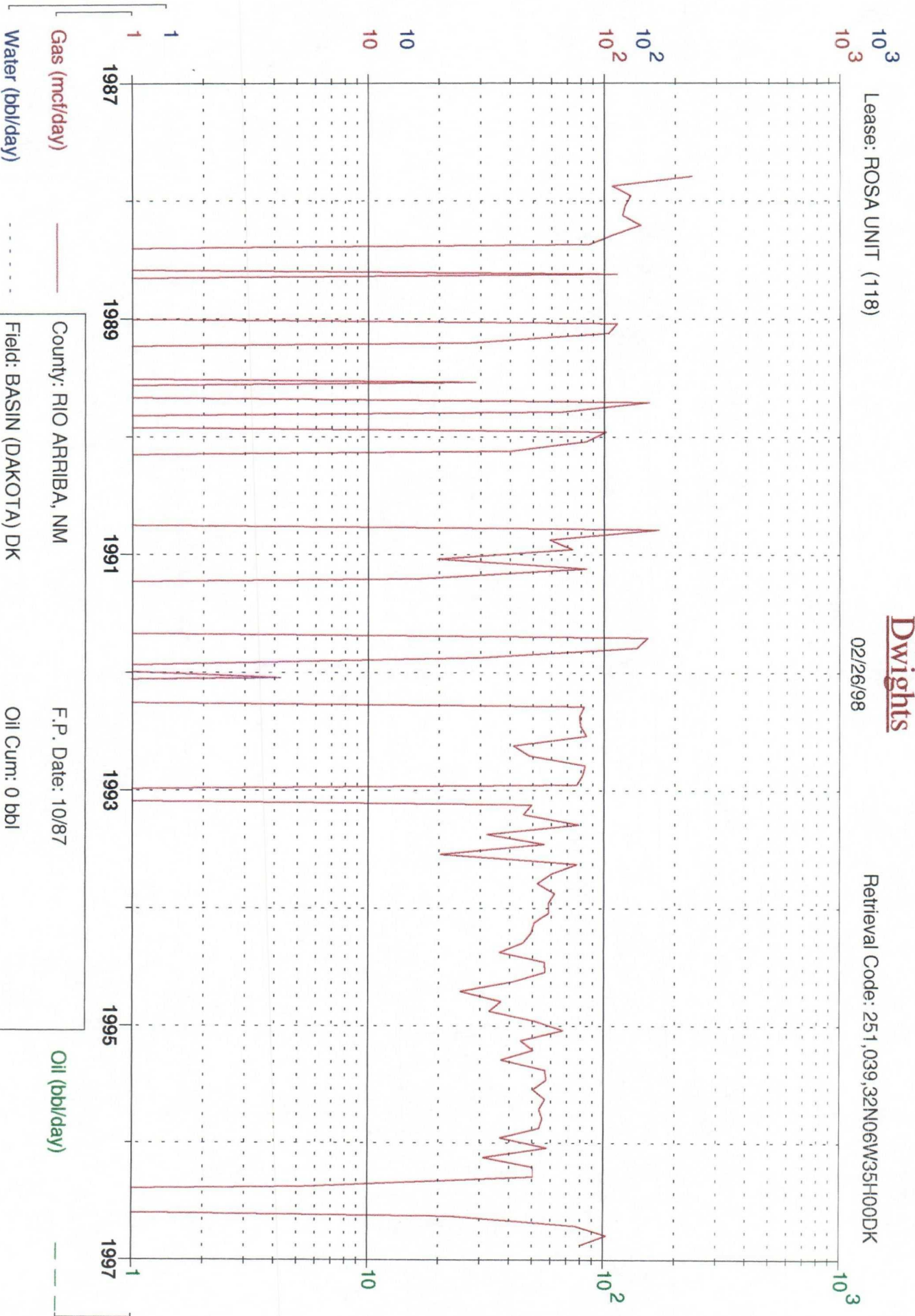
Oil Cum: 0 bbl

Reservoir: DAKOTA

Gas Cum: 305.8 mmcf

Operator: WILLIAMS PRODUCTION CO

Location: 33D 32N 6W



County: RIO ARRIBA, NM

F.P. Date: 10/87

Field: BASIN (DAKOTA) DK

Oil Cum: 0 bbl

Reservoir: DAKOTA

Gas Cum: 167.8 mmcf

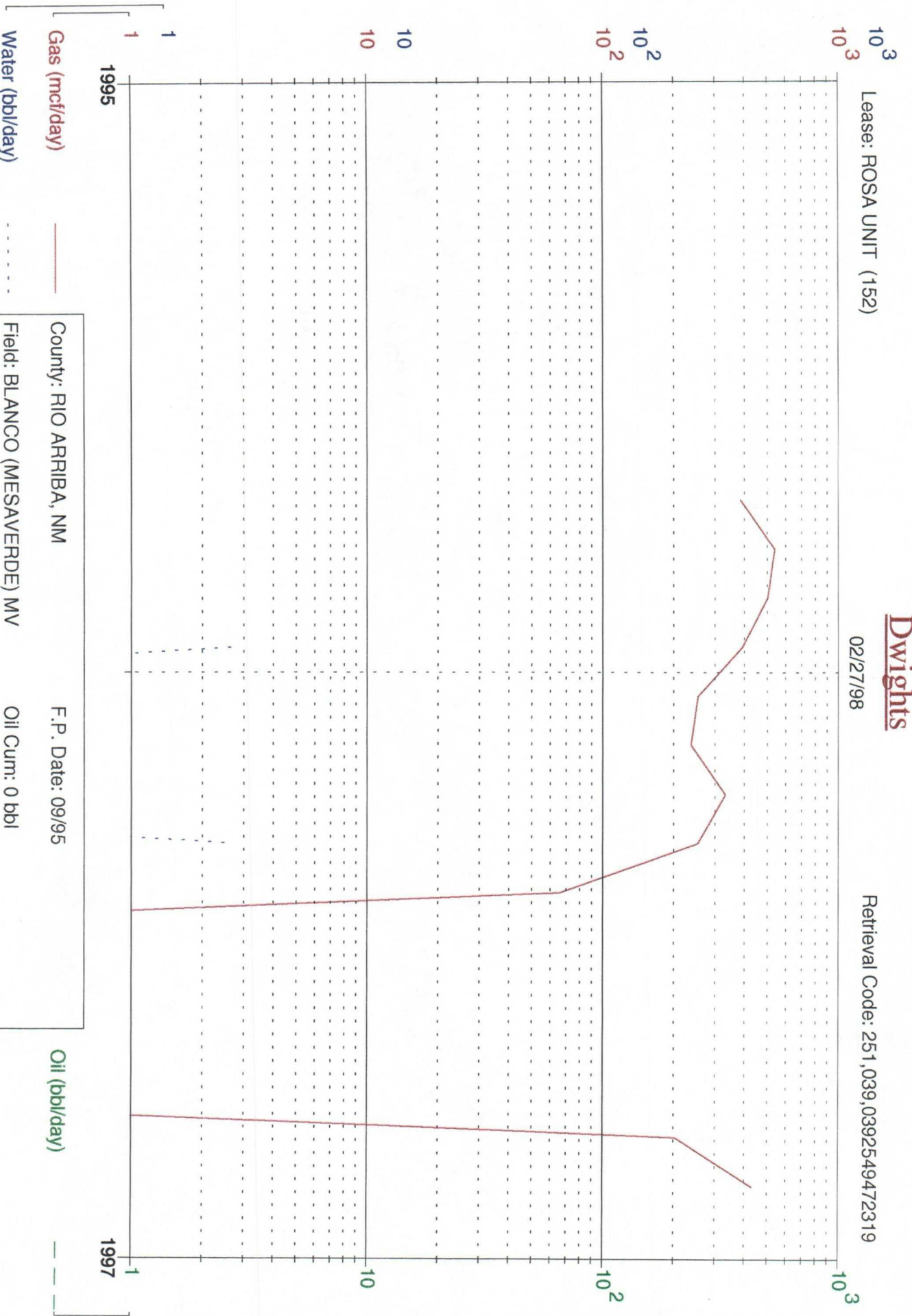
Operator: WILLIAMS PRODUCTION CO

Location: 35H 32N 6W

Lease: ROSA UNIT (152)

02/27/98

Retrieval Code: 251,039,0392549472319



County: RIO ARRIBA, NM

F.P. Date: 09/95

Field: BLANCO (MESAVERDE) MV

Oil Cum: 0 bbl

Reservoir: MESAVERDE

Gas Cum: 109.0 mmcf

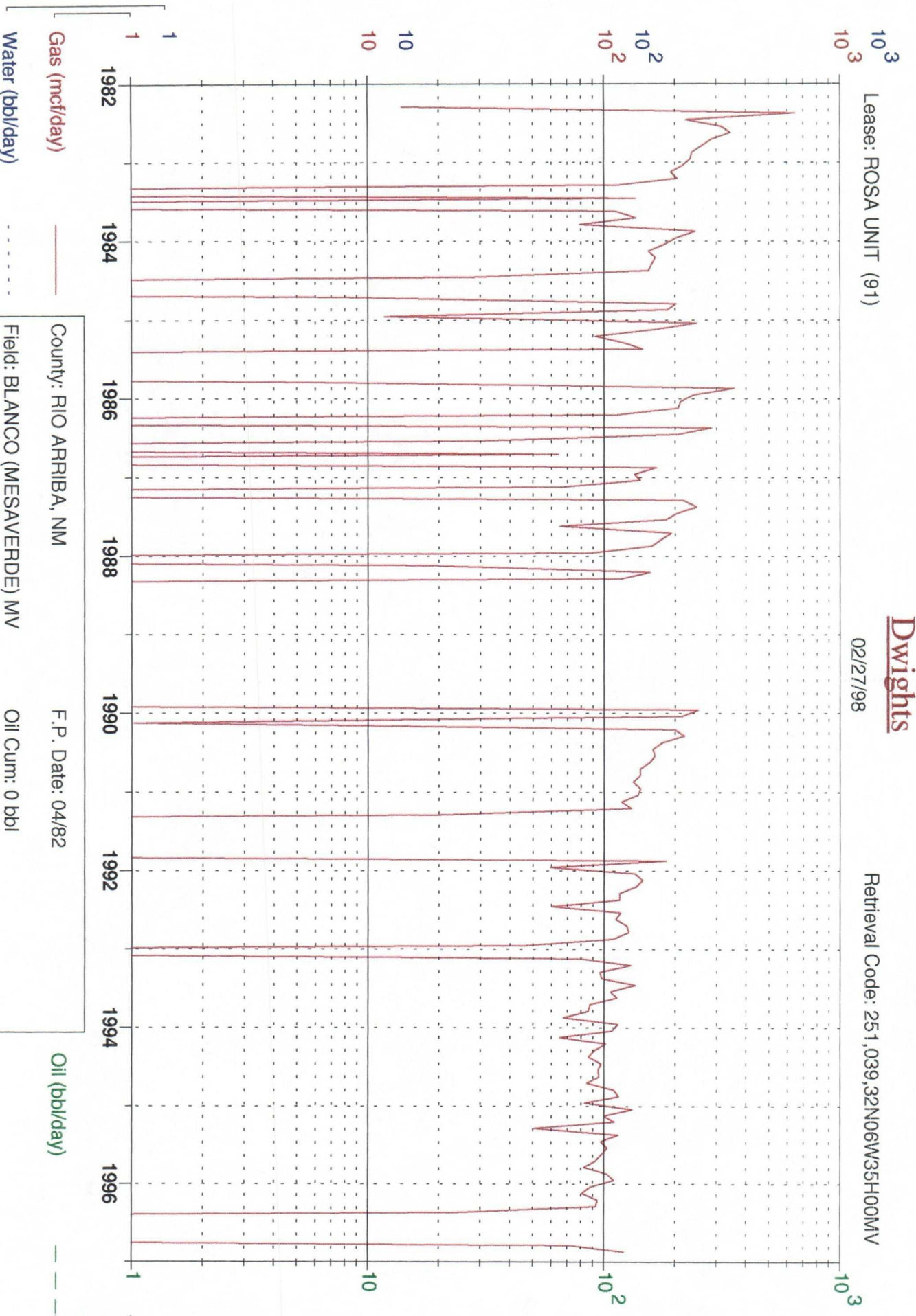
Operator: WILLIAMS PRODUCTION CO

Location: 36E 32N 6W

Lease: ROSA UNIT (91)

02/27/98

Retrieval Code: 251,039,32N06W35H00MV



County: RIO ARRIBA, NM

F.P. Date: 04/82

Field: BLANCO (MESAVERDE) MV

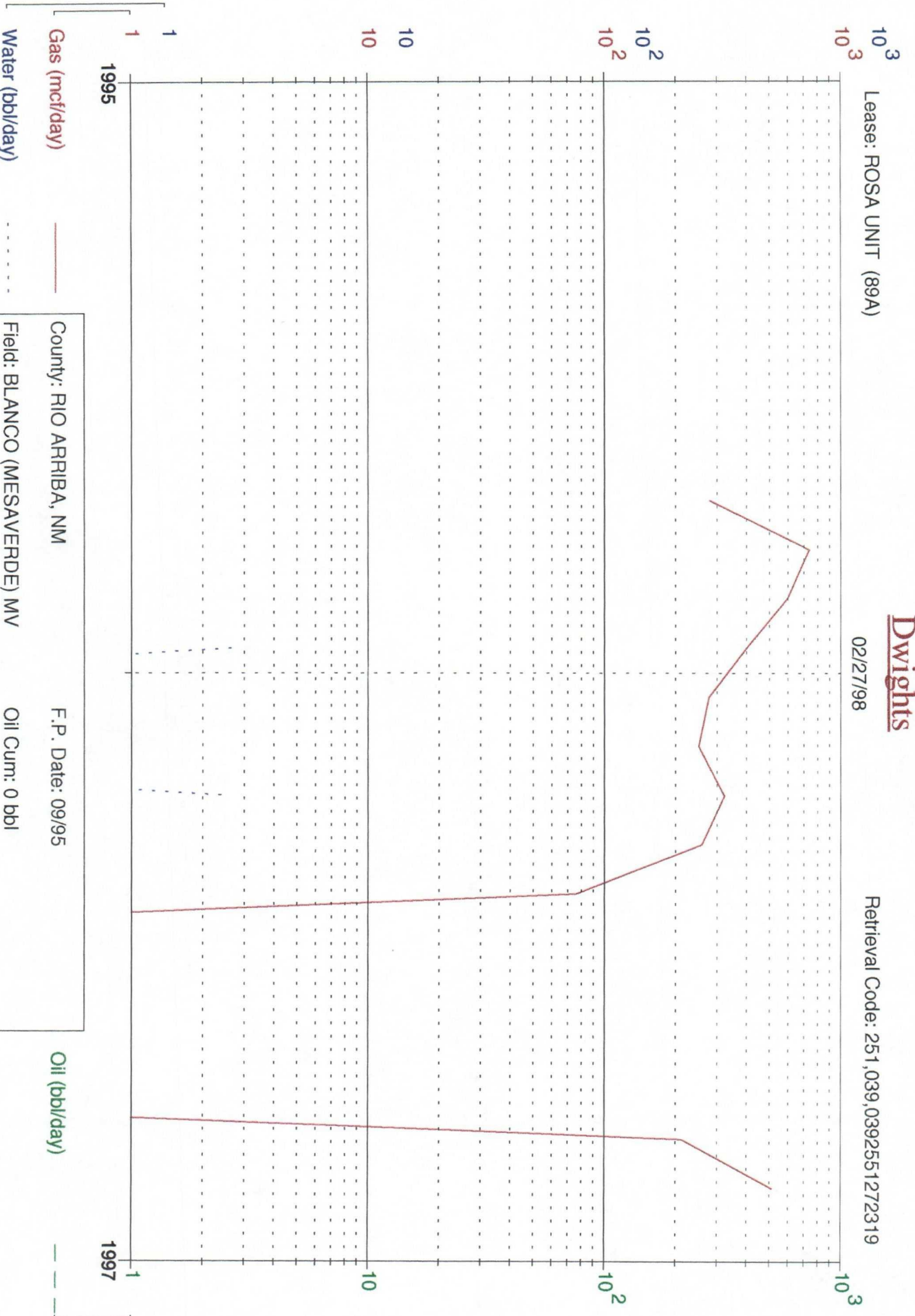
Oil Cum: 0 bbl

Reservoir: MESAVERDE

Gas Cum: 558.4 mmcf

Operator: WILLIAMS PRODUCTION CO

Location: 35H 32N 6W



Gas (mcf/day)

Water (bbl/day)

Oil (bbl/day)

County: RIO ARRIBA, NM

F.P. Date: 09/95

Field: BLANCO (MESAVARDE) MV

Oil Cum: 0 bbl

Reservoir: MESAVARDE

Gas Cum: 119.0 mmcf

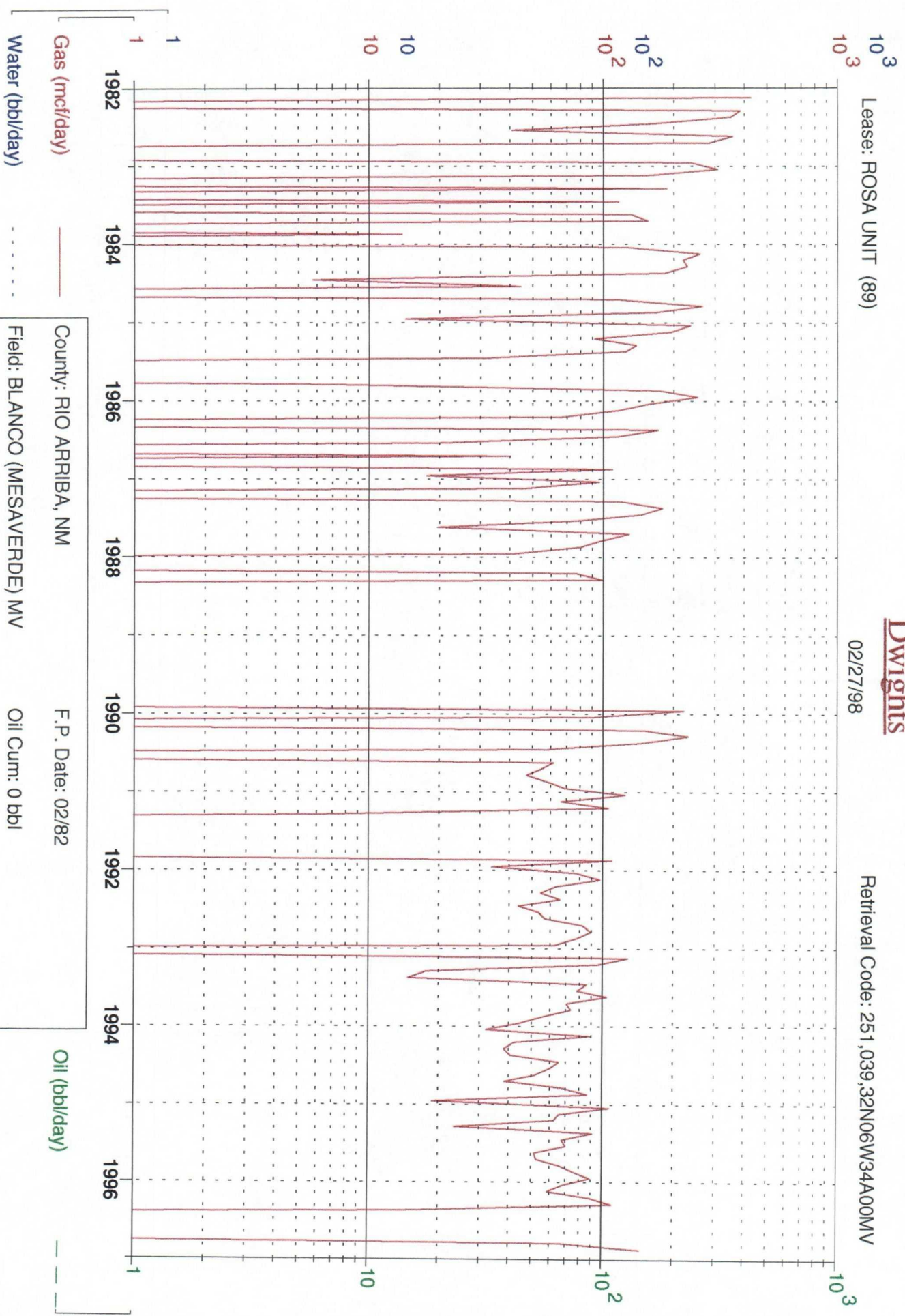
Operator: WILLIAMS PRODUCTION CO

Location: 34O 32N 6W

Lease: ROSA UNIT (89)

02/27/98

Retrieval Code: 251,039,32N06W34A00MV



County: RIO ARriba, NM

Field: BLANCO (MESAVARDE) MV

Reservoir: MESAVARDE

Operator: WILLIAMS PRODUCTION CO

F.P. Date: 02/82

Oil Cum: 0 bbl

Gas Cum: 408.3 mmcf

Location: 34A 32N 6W

Oil (bbl/day)

EXHIBIT 8A

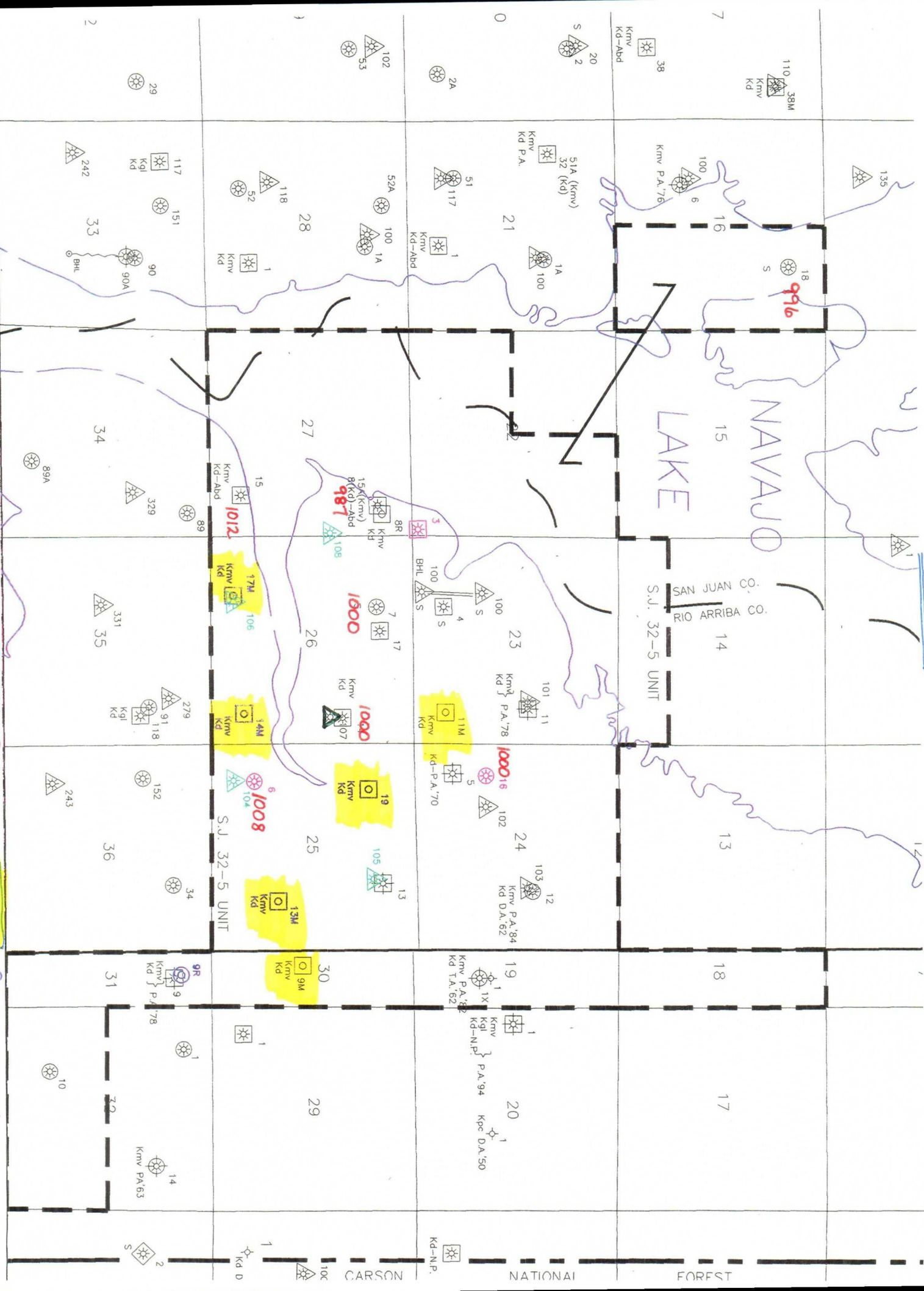


EXHIBIT A

MESAVERDE BTU @ 14.73 DRY

Proposed DK/MV commitments

SAN JUAN UNIT 32-5 INITIAL COMPLETION

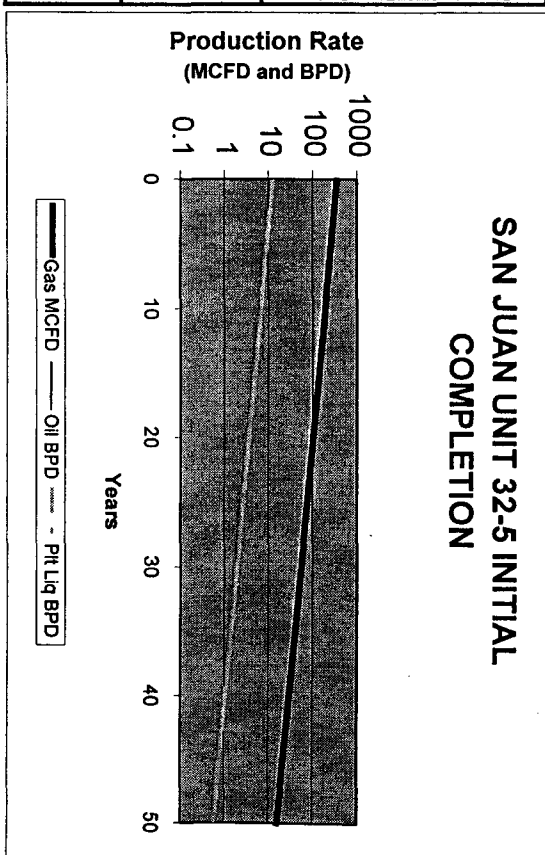
DAKOTA / MESASVERDE

COMMINGLED

Well Name:
Field Name:
Formation:
Date: 6/29/98

Main Input	
Initial Gas Rate (MCFD)	350
Gas Decline Rate (%/yr)	6.00%
Initial Oil Rate (BPD)	0
Oil Decline Rate (%/yr)	8.00%
Gas BTU Content (MMBTU)	1100
Operating Costs (\$/Month)	800
Working Interest	96.00%
Revenue Interest	76.00%
Liquid Land (Y or N)	N
Liquid Plant Code Number	2
NYMEX Gas Price (\$/MCF)	\$2.00
NYMEX Oil Price (\$/STB)	\$16.50
Discount Rate	20.6%
Plant Lq. Price net of T&E (\$/gal)	\$0.18

RESULTS	
Net Present Value =	\$685,286
Economic Life of Well (yrs) =	38.0
Gross Gas (MMCF) =	1867
Gross Oil (MSTB) =	0
Net Sales Gas (MMCF) =	1268
Net Oil (MSTB) =	0
Net Plant Liquids (Mgal) =	2171



Year	Gross WH Gas	Gross Oil	Plant Liquid	Net WH Gas	Net Sales Gas Vol.	Gas Price	Gas Price Adj.	Net Gas Sales	Oil Price	Net Oil Sales	Ptl Lq. Price	Net Ptl. Sales	Net O.C.	Net Ptd. Tax	Net Income	Disc. Net Income	Cum. Disc.
1	123.81	0	189.43	94096	84103	\$1.73	\$1.77	\$148,968	\$15.23	\$0	\$0.18	\$26,304	\$9,537	\$16,455	\$149,280	\$136,169	\$136,169
2	116.38	0	178.06	88450	79057	\$1.79	\$1.83	\$144,960	\$15.73	\$0	\$0.19	\$25,540	\$9,823	\$16,007	\$144,671	\$125,553	\$245,553
3	108.40	0	167.38	83143	74313	\$1.85	\$1.90	\$141,036	\$16.24	\$0	\$0.19	\$24,797	\$10,117	\$15,569	\$140,147	\$87,596	\$333,489
4	102.83	0	157.34	78154	69854	\$1.92	\$1.96	\$137,196	\$16.78	\$0	\$0.20	\$24,073	\$10,421	\$15,141	\$135,708	\$70,674	\$404,064
5	96.66	0	147.90	73465	65663	\$1.98	\$2.03	\$133,439	\$17.32	\$0	\$0.21	\$23,368	\$10,734	\$14,722	\$131,352	\$56,642	\$460,706
6	90.86	0	139.02	69057	61723	\$2.05	\$2.10	\$129,766	\$17.89	\$0	\$0.21	\$22,682	\$11,056	\$14,312	\$127,080	\$45,639	\$506,345
7	85.41	0	130.88	64914	58020	\$2.12	\$2.17	\$126,175	\$18.47	\$0	\$0.22	\$22,014	\$11,387	\$13,913	\$122,889	\$36,435	\$542,580
8	80.29	0	122.84	61019	54539	\$2.19	\$2.25	\$122,665	\$19.07	\$0	\$0.23	\$21,365	\$11,729	\$13,522	\$118,779	\$29,202	\$571,782
9	75.47	0	115.47	57358	51286	\$2.27	\$2.33	\$119,238	\$19.69	\$0	\$0.24	\$20,733	\$12,081	\$13,141	\$114,749	\$23,392	\$595,174
10	70.94	0	108.54	53916	48190	\$2.35	\$2.40	\$115,891	\$20.32	\$0	\$0.24	\$20,118	\$12,443	\$12,769	\$110,797	\$18,729	\$613,902
11	66.69	0	102.03	50681	45299	\$2.42	\$2.49	\$112,624	\$20.98	\$0	\$0.25	\$19,520	\$12,816	\$12,406	\$106,921	\$14,986	\$628,889
12	62.68	0	95.91	47640	42581	\$2.51	\$2.57	\$109,435	\$21.65	\$0	\$0.26	\$18,939	\$13,201	\$12,052	\$103,121	\$11,985	\$640,874
13	58.92	0	90.15	44782	40026	\$2.59	\$2.66	\$106,324	\$22.35	\$0	\$0.27	\$18,373	\$13,597	\$11,707	\$99,394	\$9,579	\$650,453
14	55.39	0	84.74	42095	37625	\$2.68	\$2.75	\$103,291	\$23.06	\$0	\$0.28	\$17,824	\$14,005	\$11,371	\$95,739	\$7,651	\$658,103
15	52.07	0	79.66	39569	35367	\$2.77	\$2.84	\$100,332	\$23.80	\$0	\$0.29	\$17,290	\$14,425	\$11,043	\$92,154	\$6,106	\$664,209
16	48.94	0	74.88	37195	33245	\$2.86	\$2.93	\$97,449	\$24.56	\$0	\$0.29	\$16,771	\$14,858	\$10,723	\$88,638	\$4,870	\$669,079
17	46.00	0	70.39	34964	31250	\$2.95	\$3.03	\$94,638	\$25.34	\$0	\$0.30	\$16,266	\$15,304	\$10,412	\$85,189	\$3,881	\$672,961
18	43.24	0	66.16	32866	29375	\$3.05	\$3.13	\$91,900	\$26.14	\$0	\$0.31	\$15,776	\$15,763	\$10,109	\$81,804	\$3,090	\$676,051
19	40.65	0	62.19	30894	27613	\$3.15	\$3.23	\$89,232	\$26.97	\$0	\$0.32	\$15,300	\$16,236	\$9,814	\$78,483	\$2,458	\$678,509
20	38.21	0	58.46	29040	25956	\$3.20	\$3.28	\$86,561	\$27.83	\$0	\$0.33	\$14,838	\$16,723	\$9,391	\$75,247	\$1,921	\$680,430
21	35.92	0	54.95	27298	24399	\$3.26	\$3.34	\$83,990	\$28.50	\$0	\$0.34	\$14,388	\$17,224	\$8,857	\$72,047	\$1,471	\$681,901
22	33.76	0	51.66	25660	22935	\$3.30	\$3.38	\$81,517	\$29.20	\$0	\$0.34	\$13,947	\$17,741	\$8,327	\$68,615	\$1,119	\$683,021
23	31.74	0	48.56	24120	21559	\$3.32	\$3.38	\$79,042	\$29.50	\$0	\$0.34	\$13,511	\$18,273	\$7,828	\$65,262	\$849	\$683,869
24	29.83	0	45.64	22673	20265	\$3.20	\$3.28	\$76,567	\$28.50	\$0	\$0.34	\$13,084	\$18,821	\$7,358	\$62,181	\$641	\$684,511
25	28.04	0	42.91	21313	19049	\$3.20	\$3.28	\$74,092	\$28.50	\$0	\$0.34	\$12,664	\$19,386	\$6,917	\$59,177	\$483	\$684,993

Year	Gross WH Gas MMCF	Gross Oil STB	Plant Liquid Mgal	Net WH Gas MCF	Net Sales Gas Vol. MCF	Gas Price \$/MMCF	BTU Adj. Gas Price \$/MMCF	Net Gas Sales \$	Oil Price \$/STB	Net Oil Sales \$	Pit. Lq. Price \$/gal.	Net Pit. Liq. Sales \$	Net O.C. \$	Net Prod. Tax \$	Net Income \$	Disc. Net Income \$	Cum. Disc. Net Income \$
26	26.36	0	40.33	20034	17906	\$3.20	\$3.28	\$58,757	\$28.50	\$0	\$0.34	\$10,483	\$19,968	\$6,502	\$42,770	\$362	\$685,355
27	24.78	0	37.91	18832	16832	\$3.20	\$3.28	\$55,231	\$28.50	\$0	\$0.34	\$9,854	\$20,567	\$6,112	\$38,407	\$269	\$685,624
28	23.29	0	35.64	17702	15822	\$3.20	\$3.28	\$51,918	\$28.50	\$0	\$0.34	\$9,263	\$21,184	\$5,745	\$34,252	\$199	\$685,823
29	21.89	0	33.50	16640	14873	\$3.20	\$3.28	\$48,802	\$28.50	\$0	\$0.34	\$8,707	\$21,819	\$5,400	\$30,290	\$146	\$686,069
30	20.58	0	31.49	15641	13980	\$3.20	\$3.28	\$45,874	\$28.50	\$0	\$0.34	\$8,185	\$22,474	\$5,076	\$26,509	\$106	\$686,075
31	19.35	0	29.60	14703	13142	\$3.20	\$3.28	\$43,122	\$28.50	\$0	\$0.34	\$7,693	\$23,148	\$4,772	\$22,896	\$76	\$686,151
32	18.19	0	27.82	13821	12353	\$3.20	\$3.28	\$40,535	\$28.50	\$0	\$0.34	\$7,232	\$23,842	\$4,485	\$19,439	\$53	\$686,205
33	17.09	0	26.15	12992	11612	\$3.20	\$3.28	\$38,102	\$28.50	\$0	\$0.34	\$6,798	\$24,558	\$4,216	\$16,127	\$37	\$686,241
34	16.07	0	24.58	12212	10915	\$3.20	\$3.28	\$35,816	\$28.50	\$0	\$0.34	\$6,390	\$25,294	\$3,963	\$12,949	\$25	\$686,266
35	15.10	0	23.11	11479	10260	\$3.20	\$3.28	\$33,667	\$28.50	\$0	\$0.34	\$6,007	\$26,053	\$3,725	\$9,895	\$16	\$686,281
36	14.20	0	21.72	10791	9645	\$3.20	\$3.28	\$31,647	\$28.50	\$0	\$0.34	\$5,646	\$26,835	\$3,502	\$6,957	\$9	\$686,291
37	13.35	0	20.42	10143	9066	\$3.20	\$3.28	\$29,748	\$28.50	\$0	\$0.34	\$5,307	\$27,640	\$3,292	\$4,124	\$4	\$686,295
38	12.55	0	19.19	9535	8522	\$3.20	\$3.28	\$27,964	\$28.50	\$0	\$0.34	\$4,989	\$28,469	\$3,094	\$1,389	\$1	\$686,296
39	0.00	0	0.00	0	0	\$0.00	\$0.00	\$0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$0	\$686,296
40	0.00	0	0.00	0	0	\$0.00	\$0.00	\$0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$0	\$686,296
41	0.00	0	0.00	0	0	\$0.00	\$0.00	\$0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$0	\$686,296
42	0.00	0	0.00	0	0	\$0.00	\$0.00	\$0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$0	\$686,296
43	0.00	0	0.00	0	0	\$0.00	\$0.00	\$0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$0	\$686,296
44	0.00	0	0.00	0	0	\$0.00	\$0.00	\$0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$0	\$686,296
45	0.00	0	0.00	0	0	\$0.00	\$0.00	\$0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$0	\$686,296
46	0.00	0	0.00	0	0	\$0.00	\$0.00	\$0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$0	\$686,296
47	0.00	0	0.00	0	0	\$0.00	\$0.00	\$0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$0	\$686,296
48	0.00	0	0.00	0	0	\$0.00	\$0.00	\$0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$0	\$686,296
49	0.00	0	0.00	0	0	\$0.00	\$0.00	\$0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$0	\$686,296
50	0.00	0	0.00	0	0	\$0.00	\$0.00	\$0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$0	\$686,296

Well Name:
Field Name:
Formation:
Date: 6/29/98

SAN JUAN UNIT 32-5 INITIAL COMPLETION

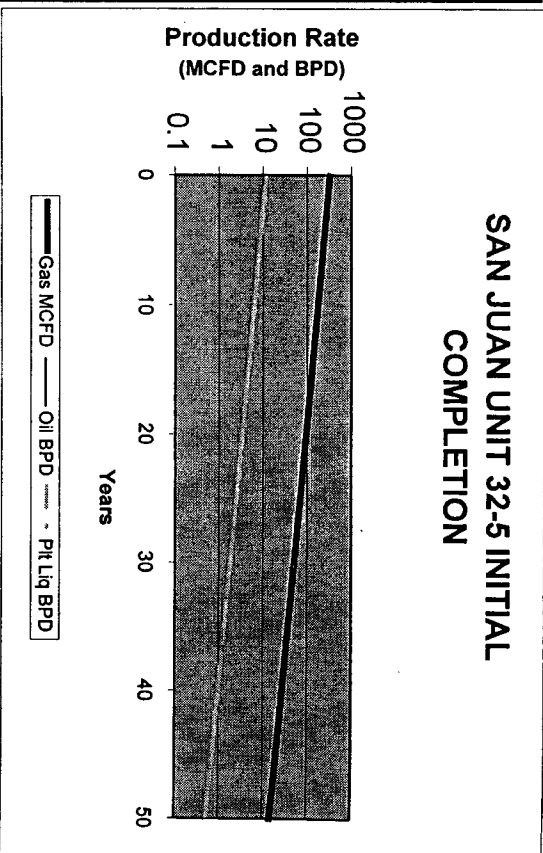
DAKOTA / MESAVERDE

DUAL

Main Input	
Initial Gas Rate (MCFD)	320
Gas Decline Rate (%/yr)	6.00%
Initial Oil Rate (BPD)	0
Oil Decline Rate (%/yr)	8.00%
Gas BTU Content (MMBTU)	1100
Operating Costs (\$/Month)	800
Working Interest	98.00%
Revenue Interest	76.00%
Indian Land (Y or N)	N
Liquid Plant Code Number	2
NYMEX Gas Price (\$/MCF)	\$2.00
Discount Rate	14.80%
Plant Liq. Price net of T&E (\$/gal)	\$0.18

Additional Input	
NYMEX Oil Price Cap (NGL price is capped at time of oil cap)	\$30.00
Gas & NGL Production Taxes for Non-Indian Land	9.39%
Gas & NGL Production Taxes for Indian Land	22.43%
Oil Production Taxes for Non-Indian Land	8.54%
Oil Production Taxes for Indian Land	17.74%
Gas Basis Differential (\$/MCF)	-\$0.30
Gas Price Escalation	3.0%
Price Cap on NYMEX Gas Price	\$3.50
Oil Basis Differential (\$/STB)	-\$1.50
Oil and NGL Price Escalation	3.0%
Operating Cost Esc.	3.0%

RESULTS	
Net Present Value =	\$795,426
Economic Life of Well (yrs) =	37.0
Gross Gas (MMCF) =	1695
Gross Oil (MSTB) =	0
Net Sales Gas (MMCF) =	1152
Net Oil (MSTB) =	0
Net Plant Liquids (Mgal) =	1974

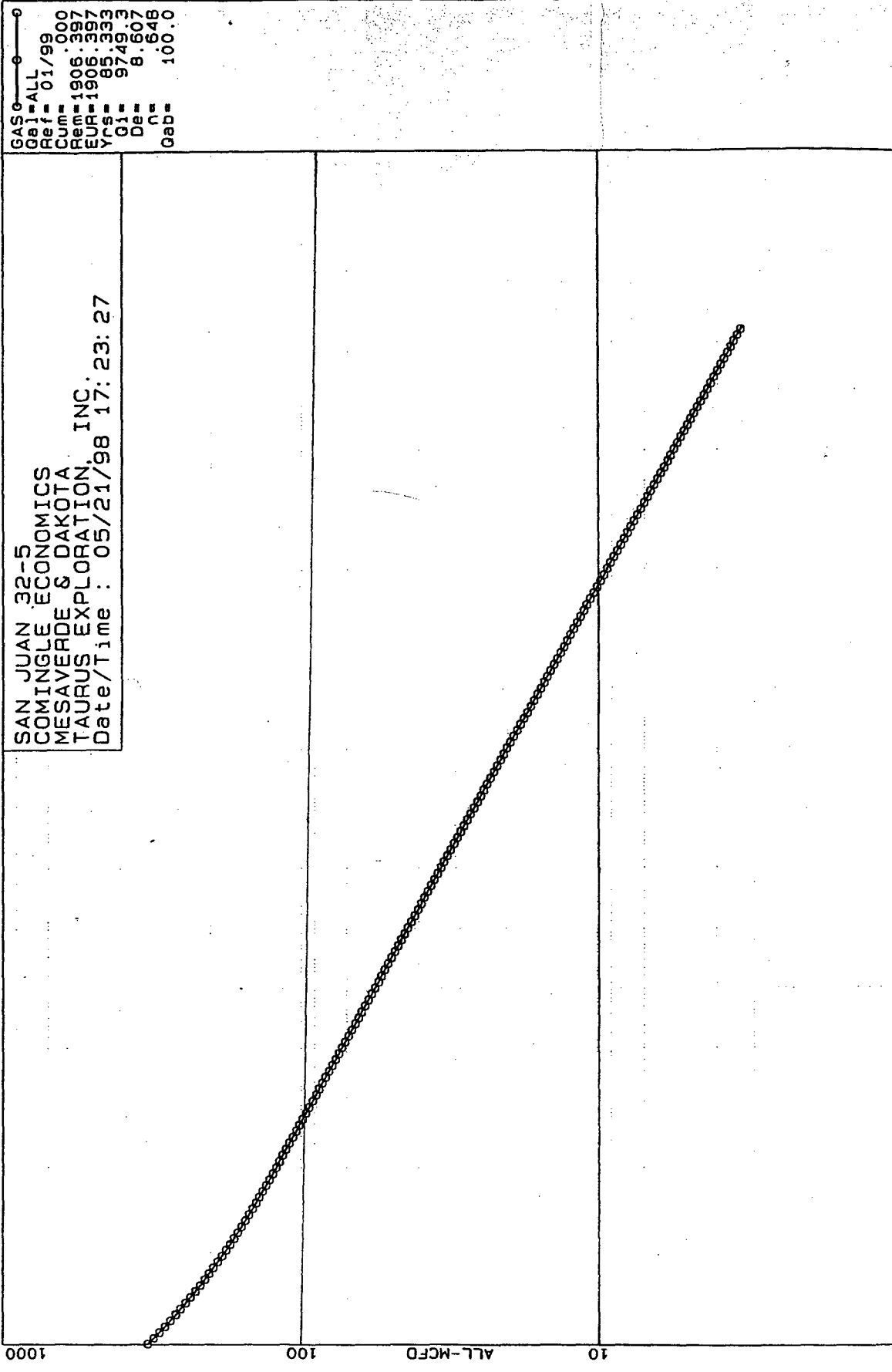


Year	Gross WH Gas	Gross Oil	Plant Liquid	Net WH Gas	Net Sales Gas Vol.	Gas Price	BTU Adj.	Net Gas Sales	Oil Price	Net Oil Sales	P/L Liq. Price	Net P/L Sales	Net O.C.	Net Prd. Tax	Net Income	Disc. Net Income	Cum. Disc.
1	113.20	0	173.19	86030	76894	\$1.73	\$1.77	\$136,199	\$15.23	\$0	\$0.18	\$24,049	\$9,537	\$15,045	\$135,667	\$126,766	\$126,766
2	106.41	0	162.80	80869	72280	\$1.79	\$1.83	\$132,535	\$15.73	\$0	\$0.19	\$23,351	\$9,823	\$14,635	\$131,429	\$127,021	\$233,787
3	100.02	0	153.03	76016	67943	\$1.85	\$1.90	\$128,948	\$16.24	\$0	\$0.19	\$22,671	\$10,117	\$14,235	\$127,267	\$127,267	\$324,099
4	94.02	0	143.85	71455	63867	\$1.92	\$1.96	\$125,437	\$16.78	\$0	\$0.20	\$22,010	\$10,421	\$13,843	\$123,182	\$123,182	\$400,276
5	88.38	0	135.22	67168	60035	\$1.98	\$2.03	\$122,002	\$17.32	\$0	\$0.21	\$21,365	\$10,734	\$13,460	\$119,173	\$119,173	\$464,502
6	83.08	0	127.11	63138	56433	\$2.05	\$2.10	\$118,643	\$17.89	\$0	\$0.21	\$20,738	\$11,056	\$13,086	\$115,240	\$115,240	\$518,624
7	78.09	0	119.48	59350	53047	\$2.12	\$2.17	\$115,360	\$18.47	\$0	\$0.22	\$20,127	\$11,387	\$12,720	\$111,380	\$111,380	\$564,211
8	73.41	0	112.31	55789	49864	\$2.19	\$2.25	\$112,151	\$19.07	\$0	\$0.23	\$19,534	\$11,729	\$12,363	\$107,593	\$107,593	\$602,587
9	68.00	0	105.57	52441	46872	\$2.27	\$2.32	\$109,017	\$19.69	\$0	\$0.24	\$18,956	\$12,081	\$12,015	\$103,878	\$103,878	\$634,875
10	64.86	0	99.24	49295	44060	\$2.35	\$2.40	\$105,957	\$20.32	\$0	\$0.24	\$18,394	\$12,443	\$11,675	\$100,233	\$100,233	\$662,026
11	60.97	0	93.28	46337	41416	\$2.42	\$2.47	\$102,970	\$20.98	\$0	\$0.25	\$17,847	\$12,816	\$11,343	\$96,658	\$96,658	\$684,843
12	57.31	0	87.69	43557	38931	\$2.51	\$2.56	\$100,055	\$21.65	\$0	\$0.26	\$17,315	\$13,201	\$11,019	\$93,150	\$93,150	\$704,006
13	53.87	0	82.43	40944	36595	\$2.59	\$2.66	\$97,211	\$22.35	\$0	\$0.27	\$16,799	\$13,597	\$10,704	\$89,709	\$89,709	\$720,089
14	50.64	0	77.46	38487	34400	\$2.68	\$2.75	\$94,437	\$23.06	\$0	\$0.28	\$16,296	\$14,005	\$10,396	\$86,332	\$86,332	\$733,577
15	47.60	0	72.83	36178	32336	\$2.77	\$2.84	\$91,732	\$23.80	\$0	\$0.29	\$15,808	\$14,425	\$10,096	\$83,019	\$83,019	\$744,880
16	44.75	0	68.46	34007	30396	\$2.86	\$2.93	\$89,096	\$24.56	\$0	\$0.30	\$15,333	\$14,858	\$9,804	\$79,787	\$79,787	\$754,345
17	42.06	0	64.35	31967	28572	\$2.95	\$3.03	\$86,526	\$25.34	\$0	\$0.30	\$14,872	\$15,304	\$9,520	\$76,575	\$76,575	\$762,263
18	39.54	0	60.49	30049	26857	\$3.05	\$3.13	\$84,023	\$26.14	\$0	\$0.31	\$14,424	\$15,763	\$9,243	\$73,441	\$73,441	\$768,881
19	37.17	0	56.86	28246	25246	\$3.15	\$3.23	\$81,584	\$26.97	\$0	\$0.32	\$13,989	\$16,236	\$8,973	\$70,364	\$70,364	\$774,407
20	34.94	0	53.45	26551	23731	\$3.20	\$3.28	\$79,188	\$27.83	\$0	\$0.33	\$13,566	\$16,723	\$8,698	\$67,128	\$67,128	\$778,935
21	32.84	0	50.24	24958	22307	\$3.20	\$3.28	\$76,806	\$28.50	\$0	\$0.34	\$13,045	\$17,224	\$8,098	\$63,921	\$63,921	\$782,571
22	30.87	0	47.23	23460	20869	\$3.20	\$3.28	\$74,468	\$29.50	\$0	\$0.34	\$12,276	\$17,741	\$7,157	\$60,787	\$60,787	\$788,469
23	28.02	0	44.40	22053	19711	\$3.20	\$3.28	\$72,197	\$30.50	\$0	\$0.34	\$11,847	\$18,273	\$6,727	\$57,821	\$57,821	\$791,771
24	27.28	0	41.73	20730	18528	\$3.20	\$3.28	\$70,000	\$31.50	\$0	\$0.34	\$11,407	\$18,821	\$6,324	\$55,000	\$55,000	\$798,592
25	25.64	0	39.23	19486	17416	\$3.20	\$3.28	\$67,949	\$32.50	\$0	\$0.34	\$10,966	\$19,386	\$5,936	\$52,166	\$52,166	\$799,026

Year	Gross WH Gas MMCF	Gross Oil STB	Plant Liquid Mgal	Net WH Gas MCF	Net Sales Gas Vol. MCF	Gas Price \$/MCF	BTU Adj. Gas Price \$/MCF	Net Gas Sales \$	Oil Price \$/STB	Net Oil Sales \$	Pit. Liq. Price \$/gal.	Net Pit. Liq. Sales \$	Net O.C. \$	Net Prod. Tax \$	Net Income \$	Disc. Net Income \$	Cum. Disc. Net Income \$
26	24.10	0	36.87	18317	16371	\$3.20	\$3.28	\$53,721	\$28.50	\$0	\$0.34	\$9,584	\$19,968	\$5,944	\$37,393	\$1,122	\$792,148
27	22.65	0	34.66	17218	15389	\$3.20	\$3.28	\$50,497	\$28.50	\$0	\$0.34	\$9,009	\$20,567	\$5,588	\$33,352	\$872	\$793,020
28	21.30	0	32.58	16185	14466	\$3.20	\$3.28	\$47,467	\$28.50	\$0	\$0.34	\$8,469	\$21,184	\$5,282	\$29,500	\$672	\$793,692
29	20.02	0	30.63	15214	13588	\$3.20	\$3.28	\$44,619	\$28.50	\$0	\$0.34	\$7,961	\$21,819	\$4,937	\$25,824	\$513	\$794,205
30	18.82	0	28.79	14301	12782	\$3.20	\$3.28	\$41,942	\$28.50	\$0	\$0.34	\$7,483	\$22,474	\$4,641	\$22,310	\$386	\$794,591
31	17.69	0	27.06	13443	12015	\$3.20	\$3.28	\$39,426	\$28.50	\$0	\$0.34	\$7,034	\$23,148	\$4,363	\$18,949	\$286	\$794,877
32	16.63	0	25.44	12636	11294	\$3.20	\$3.28	\$37,060	\$28.50	\$0	\$0.34	\$6,612	\$23,842	\$4,101	\$15,729	\$207	\$795,084
33	15.63	0	23.91	11878	10617	\$3.20	\$3.28	\$34,837	\$28.50	\$0	\$0.34	\$6,215	\$24,556	\$3,855	\$12,639	\$145	\$795,229
34	14.69	0	22.48	11165	9980	\$3.20	\$3.28	\$32,746	\$28.50	\$0	\$0.34	\$5,842	\$25,294	\$3,623	\$9,671	\$87	\$795,326
35	13.81	0	21.13	10495	9381	\$3.20	\$3.28	\$30,782	\$28.50	\$0	\$0.34	\$5,492	\$26,053	\$3,406	\$6,814	\$59	\$795,386
36	12.98	0	19.86	9866	8818	\$3.20	\$3.28	\$28,935	\$28.50	\$0	\$0.34	\$5,162	\$26,835	\$3,202	\$4,060	\$31	\$795,417
37	12.20	0	18.67	9274	8289	\$3.20	\$3.28	\$27,199	\$28.50	\$0	\$0.34	\$4,853	\$27,640	\$3,010	\$1,402	\$9	\$795,426
38	0.00	0	0.00	0	0	\$0.00	\$0.00	\$0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$0	\$795,426
39	0.00	0	0.00	0	0	\$0.00	\$0.00	\$0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$0	\$795,426
40	0.00	0	0.00	0	0	\$0.00	\$0.00	\$0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$0	\$795,426
41	0.00	0	0.00	0	0	\$0.00	\$0.00	\$0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$0	\$795,426
42	0.00	0	0.00	0	0	\$0.00	\$0.00	\$0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$0	\$795,426
43	0.00	0	0.00	0	0	\$0.00	\$0.00	\$0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$0	\$795,426
44	0.00	0	0.00	0	0	\$0.00	\$0.00	\$0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$0	\$795,426
45	0.00	0	0.00	0	0	\$0.00	\$0.00	\$0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$0	\$795,426
46	0.00	0	0.00	0	0	\$0.00	\$0.00	\$0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$0	\$795,426
47	0.00	0	0.00	0	0	\$0.00	\$0.00	\$0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$0	\$795,426
48	0.00	0	0.00	0	0	\$0.00	\$0.00	\$0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$0	\$795,426
49	0.00	0	0.00	0	0	\$0.00	\$0.00	\$0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$0	\$795,426
50	0.00	0	0.00	0	0	\$0.00	\$0.00	\$0	\$0.00	\$0	\$0.00	\$0	\$0	\$0	\$0	\$0	\$795,426

SAN JUAN 32-5 UNIT ECONOMICS

ASSUMPTIONS	COMMINGLE	DUAL
INITIAL WELL COSTS	\$ 685,000	\$ 795,000
INITIAL RATE	350 MCFD	320 MCFD
DECLINE RATE	6 %	6 %
OPERATING COST	\$ 800 /MO	\$ 800 /MO
WORKING INTEREST	0.98	0.98
NET REVENUE	0.76	0.76
BTU VALUE	1100	1100
GAS PRICE	\$ 2.00 / MCF	\$ 2.00 / MCF
PRICE DIFFERENTIAL	-\$ 0.30/ MCF	-\$ 0.30/ MCF
PROCESSING PLANT	IGNACIO	IGNACIO
LIQUID YIELD	1.53 GAL / MCF	1.53 GAL / MCF
LIQUID PRICE	\$ 0.18 / GAL	\$ 0.18 / GAL
RECOVERABLE RESERVES	1.9 BCF	1.7 BCF
PROJECT IRR	20.6 %	14.8 %

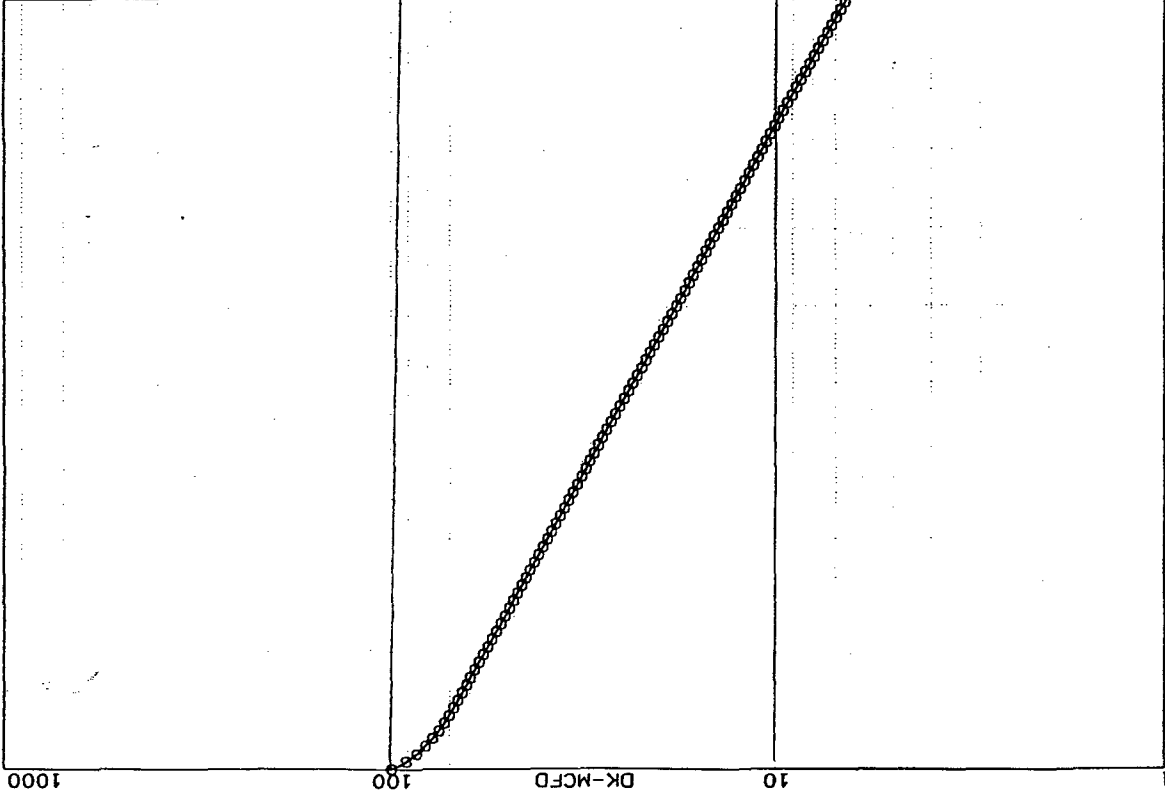


SAN JUAN 32-5
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 MESAVERDE & DAKOTA
 TAURUS EXPLORATION, INC.
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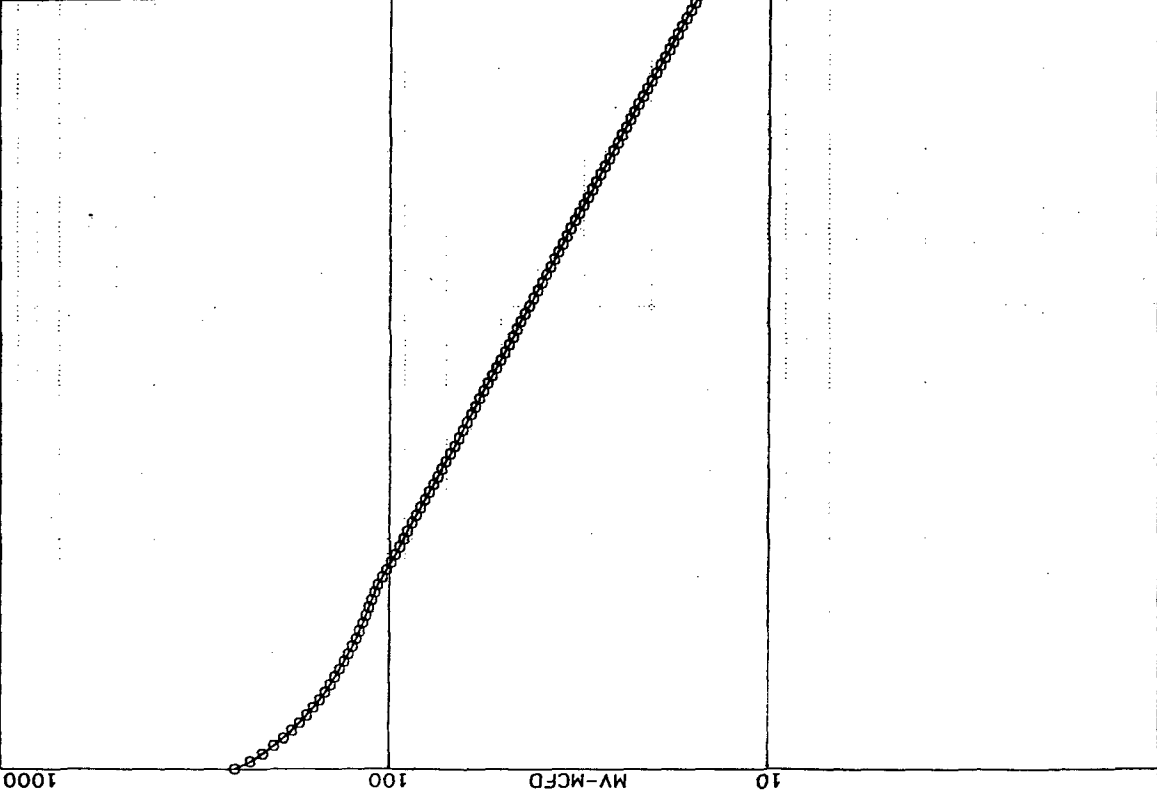
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SAN JUAN 32-5
 COMINGLE ECONOMICS
 DAKOTA
 TAURUS EXPLORATION, INC.
 Date/Time : 05/21/98 17:21:05



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SAN JUAN 32-5
 COMINGLE ECONOMICS
 MESAVERDE
 TAURUS EXPLORATION, INC.
 Date/Time : 05/21/98 17: 19: 50



**SAN JUAN 32-5
MESAVERDE OWNERS**

ALAN H KOLZ TRUSTEE
174 WESTGATE CIR
SANTA ROSA, CA 95401

Royalty

AMOCO PRODUCTION COMPANY
PO BOX 841521
DALLAS, TX 75284-1521

Override, Working Interest, Royalty

ANTONIO JOSE MARTINEZ
1612 SOUTH GLENMARY
AZTEC, NM 87410

Royalty

BARBARA KAISER
7778 DUSK ST
LITTLETON, CO 80125

Royalty

BENSON MONTIN GREER
4900 COLLEGE BLVD
FARMINGTON, NM 87402

Override

BONNIE L HART
5737 E 22ND PL
TULSA, OK 74114

Override

CARL DELLINGER
3605 BRITT NE
ALBUQUERQUE, NM 87111

Override

CENTURION OIL MINERALS CO
2421 1/2 S SHEPHERD STE 1
HOUSTON, TX 77019

Production Payment

CHASE OIL CORPORATION
PO BOX 1767
ARTESIA, NM 88211-1767

Override

CHUCK D WEST
7882 S OGDEN CT
LITTLETON, CO 80122

Override

DAVID B QUINTANA
RR 1 BOX 315
EARTH, TX 79031

Royalty

DOROTHEA J CAULFIELD TRUST
14647 RANCHVIEW TER
CHINO HILLS, CA 91709-4345

Override

DOROTHY DEAN GIBBONS ESTATE
RT 3 P O BOX 281
WARSAW, MO 65355

Override

DR CURTIS WEBB CAINE
712 FOREST POINT DRIVE
BRANDON, MS 39042

Override

DR FRANK ALTON WOOD
4026 OAKRIDGE DR
JACKSON, MS 39216

Override

ELIZABETH JEANNE CALLOWAY
JGT ESTATE
4801 ST JOHNS DR
DALLAS, TX 75205-3143

Override, Working Interest

ELIZABETH T CALLOWAY
4801 ST JOHNS DR
DALLAS, TX 75205

Override, Royalty, Working Interest

EUGENE E BEATTY
F/A/O EUGENE E BEATTY
PO BOX 12019
AUSTIN, TX 78711

Override

FREDERICK EUGENE TURNER
ONE ENERGY SQUARE STE 852
4925 GREENVILLE AVE
DALLAS, TX 75206

Override

FREDERICK EUGENE TURNER
OIL AND GAS INVESTMENTS
ONE ENERGY SQ STE 852 4925 GREENVILLE AVE
DALLAS, TX 75206-4079

Override, Working Interest

FREDERICK EUGENE TURNER
4925 GREENVILLE AVE
DALLAS, TX 75206-4079

Override, Working Interest, Royalty

GAYLE K HAMILTON AGENT
PO BOX 1133
SHREVEPORT, LA 71163-1133

Override

GLEN W JOHNSON JR EST
10 FRIAR TUCK CIR
SUMMIT, NJ 07901

Override

HAMPTON YOUNG
PO BOX 20186
GRAEAGLE, CA 96103-1186

Royalty

HENRIETTA E SCHULTZ
500 N AKARD ST #2160
DALLAS, TX 75201

Override, Working Interest

INEZ QUINTANA TRTEE UNDER TR A
PO BOX 51
IGNACIO, CO 81137

Royalty

J GLENN TURNER JR
STE 1201
3131 TURTLE CREEK BLVD
DALLAS, TX 75219-5415

Override, Working Interest

J GLENN TURNER JR
3131 TURTLE CREEK BLVD
DALLAS, TX 75219-5415

Override, Royalty, Working Interest

JOHN LEE TURNER
PO BOX 33610
KERRVILLE, TX 78029-3610

Override, Royalty, Working Interest

JOSE N QUINTANA
PO BOX 652
PAGOSA SPRINGS, CO 81197

Royalty

LAURA JEAN WEST AMMAN
3845 DYANNA DR
THORNTON, CO 80221

Override

LEE ROSS ALLISON
4135 DOGWOOD DR
JACKSON, MS 39211

Override

LILLIAN M GAYDEN
501 NORTHPOINTE PKWY APT #110
JACKSON, MS 39211

Production Payment

LINDA D CUNDIFF
2441 COUNTY RD 329
IGNACIO, CO 81131

Royalty

LOIS BEATTY
ATTN LOUIS ACEVEDO
4050 ALPHA RD MC 5501 NWSAT
FARMERS BRANCH, TX 75244

Override

LOUISA QUINTANA
P O BOX 661
IGNACIO, CO 81137

Royalty

MARY FRANCES PISAREFF
266 GRANADA RD
WEST PALM BEACH, FL 33401-8018

Override

MARY FRANCES TURNER JR TR
PO BOX 200890
HOUSTON, TX 77216-0890

Override, Working Interest

MINERALS MANAGEMENT SERVICE
PO BOX 5810
DENVER, CO 80217-5810

Royalty

OLIVIA LAWHEAD
716 HALL ST
EATON RAPIDS, MI 48827

Royalty

OPHELIA CANDLERIA
PO BOX 465
BLANCO, NM 87412

Royalty

PETE MILLICH AND DELLA E
JOINT TENANTS
12084 HIGHWAY 151
IGNACIO, CO 81137

Royalty

SALLY FRANCIS ROSS MARTIN
PO BOX 1096
MADISON, MS 39130-1096

Override

SARA B SANCHEZ
1625 BONFORTE BLVD APT B11
PUEBLO, CO 81001-1667

Royalty

SHERAN N MARRON
5065 ARROYO CHAMESA NE
ALBUQUERQUE, 87111

Override

STATE OF NEW MEXICO
PO BOX 1148
SANTA FE, NM 87504-1148

Royalty

TAURUS EXPLORATION USA, INC.
2101 SIXTH AVENUE N
BIRMINGHAM, AL 35203

Working Interest

TURNER PRODUCTION COMPANY
4925 GREENVILLE AVENUE
DALLAS, TX 75206

Override

WADE E YOUNG
PO BOX 1189
MAGALIA, CA 95954

Royalty

WILLIAM G WEBB
8226 DOUGLAS AVENUE SUITE 709
DALLAS, TX 75225-5929

Override

W. M. VAUGHEY
1840 CAPITAL TOWERS
JACKSON, MS 39201-3301

Working Interest

W. M. And GENEVIEVE VAUGHEY
C. VAUGHEY
1840 CAPITAL TOWERS
JACKSON, MS 39201-3301

Working Interest

WILLIAMS PRODUCTION COMPANY
ONE WILLIAMS CENTER
P.O. BOX 3102
TULSA, OK 74101

Working Interest

**SAN JUAN 32-5
DAKOTA OWNERS**

ADELA MASCARENAS QUINTANA 1794 COUNTY ROAD 314 IGNACIO, CO 81137	Royalty
AIDA MASCARENAS 157 CICOTTE ECORSE, MI 48229	Royalty
ALAN H KOLZ TRUSTEE 174 WESTGATE CIR SANTA ROSA, CA 95401	Royalty
ALBERT MARTINEZ PO BOX 4 CHROMO, CO 81128	Royalty
AMOCO PRODUCTION COMPANY PO BOX 841521 DALLAS, TX 75284-1521	Override, Working Interest, Royalty
ANGELINA R SHULL PO BOX 268 JEFFREY CITY, WY 82310	Royalty
ANTHONY DOMINICK SANCHEZ PO BOX 725 IGNACIO, CO 81137	Royalty
ANTONIO JOSE MARTINEZ 1612 SOUTH GLENMARY AZTEC, NM 87410	Royalty
ARTHUR J SANCHEZ PO BOX 725 IGNACIO, CO 81137	Royalty
BARBARA KAISER 7778 DUSK ST LITTLETON, CO 80125	Royalty

BETTY S LEWIS
4917 GREENBRIAR
CORPUS CHRISTI, TX 78413

Royalty

BONNIE L HART
5737 E 22ND PL
TULSA, OK 74114

Override

CANDIDO P MASCARENAZ
4813 W ODELL DR
WEST VALLEY, UT 84120

Royalty

CENTURION OIL MINERALS CO
2421 1/2 S SHEPHERD STE 1
HOUSTON, TX 77019

Production Payment

CHASE OIL CORPORATION
PO BOX 1767
ARTESIA, NM 88211-1767

Override

CHUCK D WEST
7882 S OGDEN CT
LITTLETON, CO 80122

Override

CONSTANCE A KUNCICKY
4225 US HWY A1A S
SAINT AUGUSTINE, FL 32084-7422

Override

DALE BRANNING
101 COLONIAL ST
EVENSTON, WY 82930

Royalty

DAVID A MILLER
LOT #64
LEESBURG, VA 20175-3713

Royalty

DAVID B QUINTANA
RR 1 BOX 315
EARTH, TX 79031

Royalty

DOROTHY DEAN GIBBONS ESTATE
RT 3 P O BOX 281
WARSAW, MO 65355

Override

DR CURTIS WEBB CAINE
712 FOREST POINT DRIVE
BRANDON, MS 39042

Override

DR FRANK ALTON WOOD
4026 OAKRIDGE DR
JACKSON, MS 39216

Override

ELEANOR BENNETT
4408 W 6060 S
SALT LAKE CITY, UT 84118

Royalty

ELEANOR D SHIRA
2001 W 2ND
RIFLE, CO 81650

Royalty

ELENOR M CALDERON
PO BOX 176
HESPERUS, CO 81326

Royalty

ELIZABETH JEANNE CALLOWAY
JGT ESTATE
4801 ST JOHNS DR
DALLAS, TX 75205-3143

Override, Working Interest

ELIZABETH T CALLOWAY
4801 ST JOHNS DR
DALLAS, TX 75205

Override, Royalty

ELLIOTT INDUSTRIES
PO BOX 1355
ROSWELL, NM 88202

Override

ELLIOTT-HALL COMPANY
PO BOX 1231
OGDEN, UT 84402

Override

ENRIQUES ESPINOSA DECD
PO BOX 704
PAGOSA SPRINGS, CO 81147-0704

Royalty

EUGENE E BEATTY
F/A/O EUGENE E BEATTY
PO BOX 12019
AUSTIN, TX 7871

Override

EVE E BUCHANAN
956 ACAPULCO CT
COLORADO SPRINGS, CO 80910

Royalty

FREDERICK EUGENE TURNER
OIL AND GAS INVESTMENTS
ONE ENERGY SQ STE 852 4925 GREENVILLE AVE
DALLAS, TX 75206-4079

Override, Working Interest,

GAYLE K HAMILTON AGENT
PO BOX 1133
SHREVEPORT, LA 71163-1133

Override

GAYLE OFLATTERY
2003 GORHAM PARK AVE
BILLINGS, MT 59102

Royalty

GEORGIA CHAVEZ
PO BOX 46
PAGOSA SPRINGS, CO 81147

Royalty

GERARDO L SANCHEZ
PO BOX 229
IGNACIO, CO 81137

Royalty

GLEN W JOHNSON JR EST
10 FRIAR TUCK CIR
SUMMIT, NJ 07901

Override

H F AXTELL & FREDA AXTELL
101 RIO VISTA CIRCLE
DURANGO, CO 81301

Royalty

HAMPTON YOUNG
PO BOX 20186
GRAEAGLE, CA 96103-1186

Royalty

HENRIETTA E SCHULTZ
500 N AKARD ST #2160
DALLAS, TX 75201

Override, Royalty

INAZ R HAVLIK
1560 BROADWAY STE 630
DENVER, CO 80202

Royalty

INEZ QUINTANA TRTEE UNDER TR A
PO BOX 51
IGNACIO, CO 81137

Royalty

J GLENN TURNER JR
STE 1201
3131 TURTLE CREEK BLVD
DALLAS, TX 75219-5415

Override, Royalty

JIMMY SANCHEZ
6925 GILLIS DR
BOISE, ID 83703

Royalty

JOAN S MILLER
4117 EAST 41ST PLACE
TULSA, OK 74135

Royalty

JOHN A MASCARENAS
8801 N 104TH AVE
PEORIA, AZ 85345-7303

Royalty

JOHN LEE TURNER
PO BOX 33610
KERRVILLE, TX 78029-3610

Override

JOHN LEE TURNER
PO BOX 33610
KERRVILLE, TX 78029-3610

Override, Royalty

JOHN M MASCARENAS
2849 WOODBINE AVE
FULLERTON, CA 92635

Royalty

JOHN TRANQUILINO MASCARENAS
29631 42ND PL S
AUBURN, WA 98001

Royalty

JOSE N QUINTANA
PO BOX 652
PAGOSA SPRINGS, CO 81197

Royalty

JOSE SALVADOR MARTINEZ
PO BOX 772
PAGOSA SPRINGS, CO 81147

Royalty

LAURA JEAN WEST AMMAN
3845 DYANNA DR
THORNTON, CO 80221

Override

LAURIE KRAMER
2240 HONDA AVE
ELKO, NV 89801

Royalty

LAWRENCE MASCARENAZ
932 KENSINGTON AVE
SALT LAKE CITY, UT 84115

Royalty

LEE ROSS ALLISON
4135 DOGWOOD DR
JACKSON, MS 39211

Override

LIDIA M MARTINEZ
HC 3 BOX 11
PAGOSA SPRINGS, CO 81147

Royalty

LILLIAN M GAYDEN
501 NORTHPOINTE PKWY APT #110
JACKSON, MS 39211

Production Payment

LINDA A SEYKORA
2002 E 4TH ST
GREENVILLE, NC 27834

Override

LINDA D CUNDIFF
2441 COUNTY RD 329
IGNACIO, CO 81131

Royalty

LOIS BEATTY
ATTN LOUIS ACEVEDO
4050 ALPHA RD MC 5501 NWSAT
FARMERS BRANCH, TX 75244

Override

LOUISA QUINTANA
P O BOX 661
IGNACIO, CO 81137

Royalty

MADALINE M ESPINOSA
718-154 SYCAMORE AVE
VISTA, CA 92083

Royalty

MAGDALENA ESPINOSA
2001 W 2ND ST TRLR 1
RIFLE, CO 81650-2638

Royalty

MARTY MASCARENAZ
3685 ALVERON DR
BENNION, UT 84118

Royalty

MARY FRANCES TURNER JR TR
PO BOX 200890
HOUSTON, TX 77216-0890

Override, Royalty

MARY L SELMAN
COUNTY RD 5173 SPACE 26
FARMINGTON, NM 87401

Royalty

MINERALS MANAGEMENT SERVICE
PO BOX 5810
DENVER, CO 80217-5810

Royalty

OLIVE CAMPOS
901 STORM MOUNTAIN DR #216
SALT LAKE CITY, UT 84123-3444

Royalty

OLIVIA LAWHEAD
716 HALL ST
EATON RAPIDS, MI 48827

Royalty

OPHELIA CANDERLIA
PO BOX 465
BLANCO, NM 87412

Royalty

PETE MILLICH AND DELLA E
JOINT TENANTS
12084 HIGHWAY 151
IGNACIO, CO 81137

Royalty

RAMONA CALDER
4131 W 5700 SOUTH
KEARNS, UT 84118

Royalty

RAY THOMAS SANCHEZ
PO BOX 1584
DURANGO, CO 81301

Royalty

RAYNEL A MARTINEZ
15020 COUNTY ROAD 500
PAGOSA SPRINGS, CO 81147

Royalty

ROBERT W AUSTIN
PO BOX 37
COOKEVILLE, TN 38503

Override

RONALD M MILLER
P O BOX 112
BAYFIELD, CO 81122

Royalty

ROSALIE MARTINEZ
2567 N 400 W #15
LAYTON, UT 84041

Royalty

SALLY FRANCIS ROSS MARTIN
PO BOX 1096
MADISON, MS 39130-1096

Override

SARA B SANCHEZ
1625 BONFORTE BLVD APT B11
PUEBLO, CO 81001-1667

Royalty

SHERAN N MARRON
5065 ARROYO CHAMESA NE
ALBUQUERQUE, NM 87111

Override

SIDWELL MINERALS TRUST
621 17TH ST STE 805
DENVER, CO 80293

Royalty

SUSAN NELSON
4889 W NIAGRA WAY
KEARNS, UT 84118

Royalty

TAURUS EXPLORATION USA, INC.
2101 SIXTH AVENUE N
BIRMINGHAM, AL 35203

Working Interest, Override, Royalty

TERESA M SALAZAR
7560 MISTY GLENN
BOISE, ID 83709

Royalty

TINA ROSE
5386 S 5200 W
KEARNS, UT 84118

Royalty

TRUDY M PADILLO
7643 WEST 98TH
BROOMFIELD, CO 80020

Royalty

TURNER PRODUCTION COMPANY
4925 GREENVILLE AVENUE
DALLAS, TX 75206

Override

VERA P MADDY
718-154 SYCAMORE AVE
VISTA, CA 92083

Royalty

VERNA R ESPINOSA
& ROSE A SANCHEZ JTWROS
803 LA PLATA AVENUE
AZTEC, NM 87410

Royalty

VERNON VELASQUEZ
PO BOX 415
GLENROCK, WY 82637

Royalty

VIOLA MASCARENAS LUCERO
P O BOX 841
BLOOMFIELD, NM 87413

Royalty

WADE YOUNG
PO BOX 1189
MAGALIA, CA 95954

Royalty

WAYDE A ESPINOSA
2538 CINDY CIR
ELKO, NV 89801

Royalty

WILLIAM G WEBB
8226 DOUGLAS AVENUE SUITE 709
DALLAS, TX 75225-5929

Override

W. M. and GENEVIEVE VAUGHEY
C. VAUGHEY
1840 CAPITAL TOWERS
JACKSON, MS 39201-3301

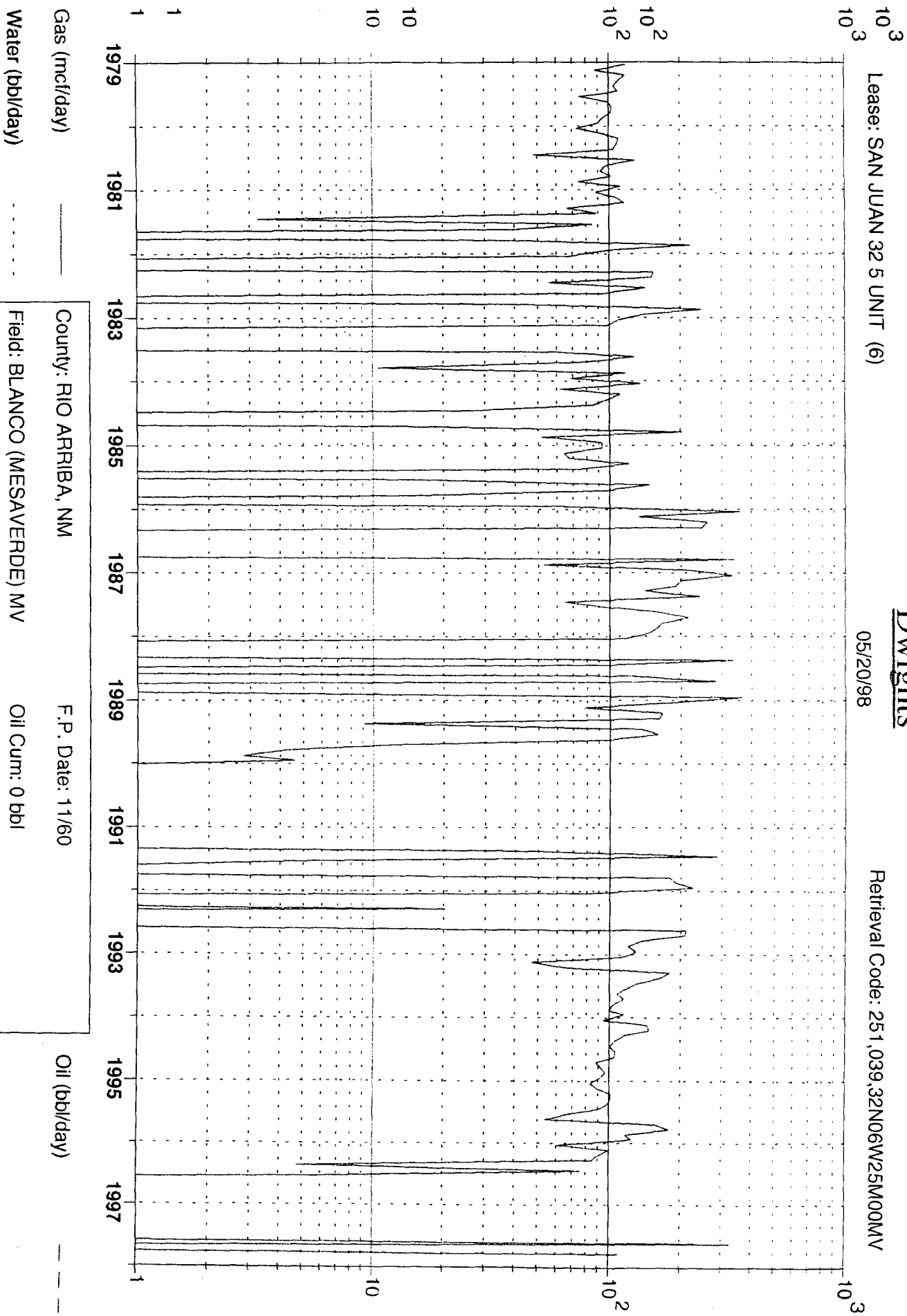
Working Interest

Dwights

Lease: SAN JUAN 32 5 UNIT (6)

05/20/98

Retrieval Code: 251,039,32N06W25M00MV



County: RIO ARriba, NM

F.P. Date: 11/60

Field: BLANCO (MESAVARDE) MV

Oil Cum: 0 bbl

Reservoir: MESAVARDE

Gas Cum: 1742 mmcf

Operator: BURLINGTON RES O&G CO

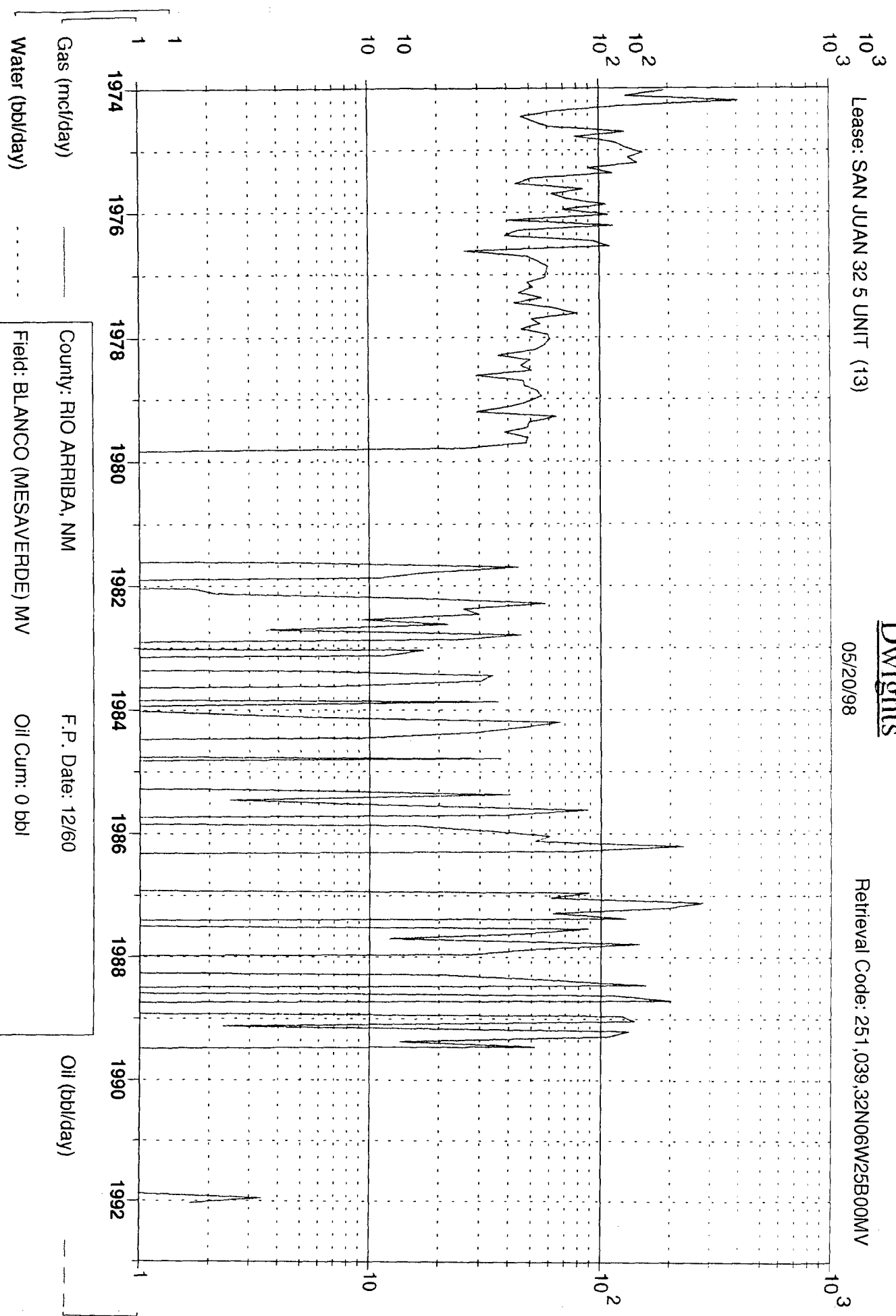
Location: 25M 32N 6W

Dwights

Lease: SAN JUAN 32 5 UNIT (13)

05/20/98

Retrieval Code: 251,039,32N06W25B00MV



Gas (mcf/day)

Water (bbl/day)

Oil (bbl/day)

County: RIO ARriba, NM

F.P. Date: 12/60

Field: BLANCO (MESAVARDE) MV

Oil Cum: 0 bbl

Reservoir: MESAVARDE

Gas Cum: 908.6 mmcf

Operator: BURLINGTON RES O&G CO

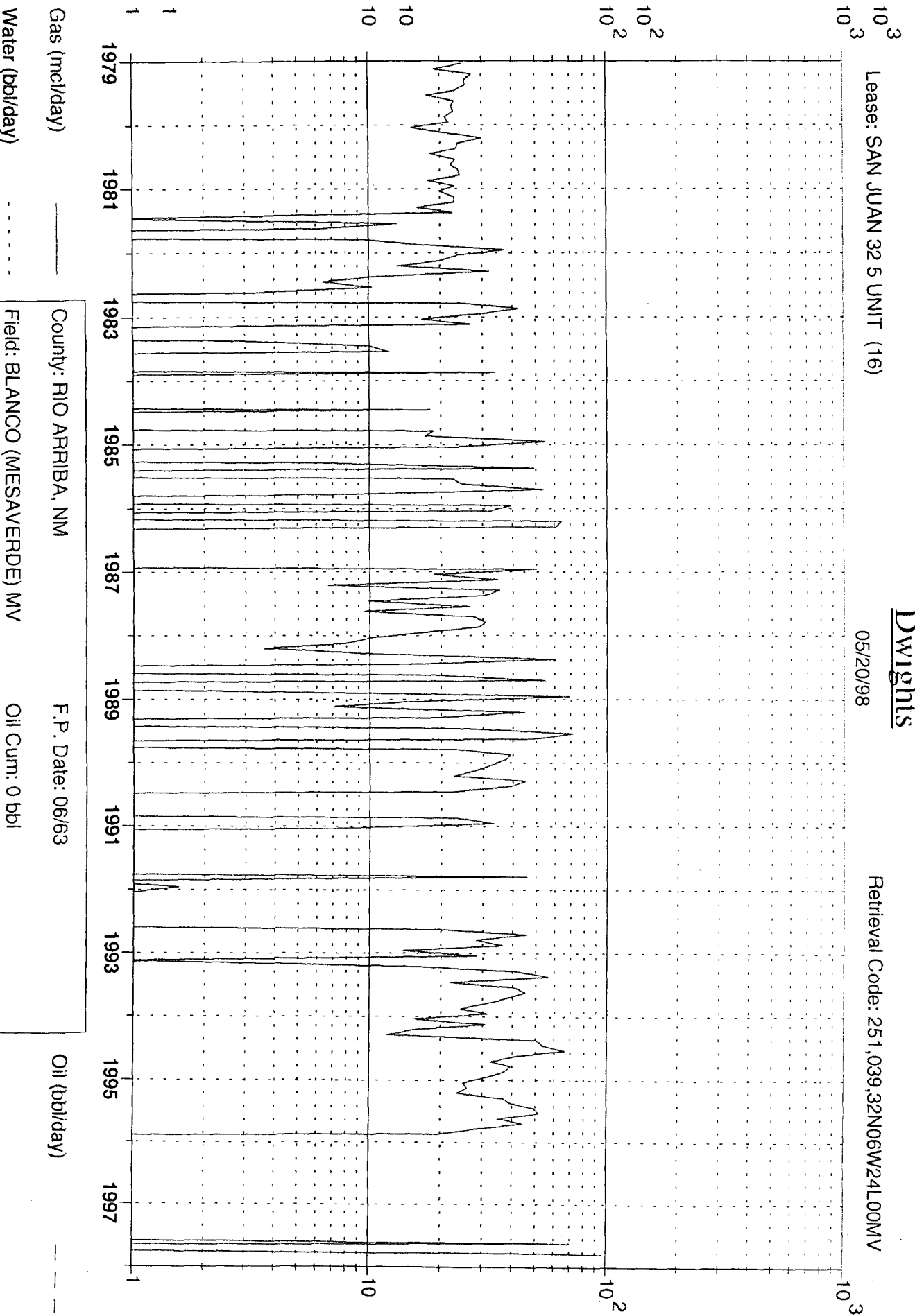
Location: 25B 32N 6W

Dwights

Lease: SAN JUAN 32 5 UNIT (16)

05/20/98

Retrieval Code: 251,039,32N06W24L00MV



County: RIO ARriba, NM

F.P. Date: 06/63

Field: BLANCO (MESAVERDE) MV

Oil Cum: 0 bbl

Reservoir: MESAVERDE

Gas Cum: 348.3 mmcf

Operator: BURLINGTON RES O&G CO

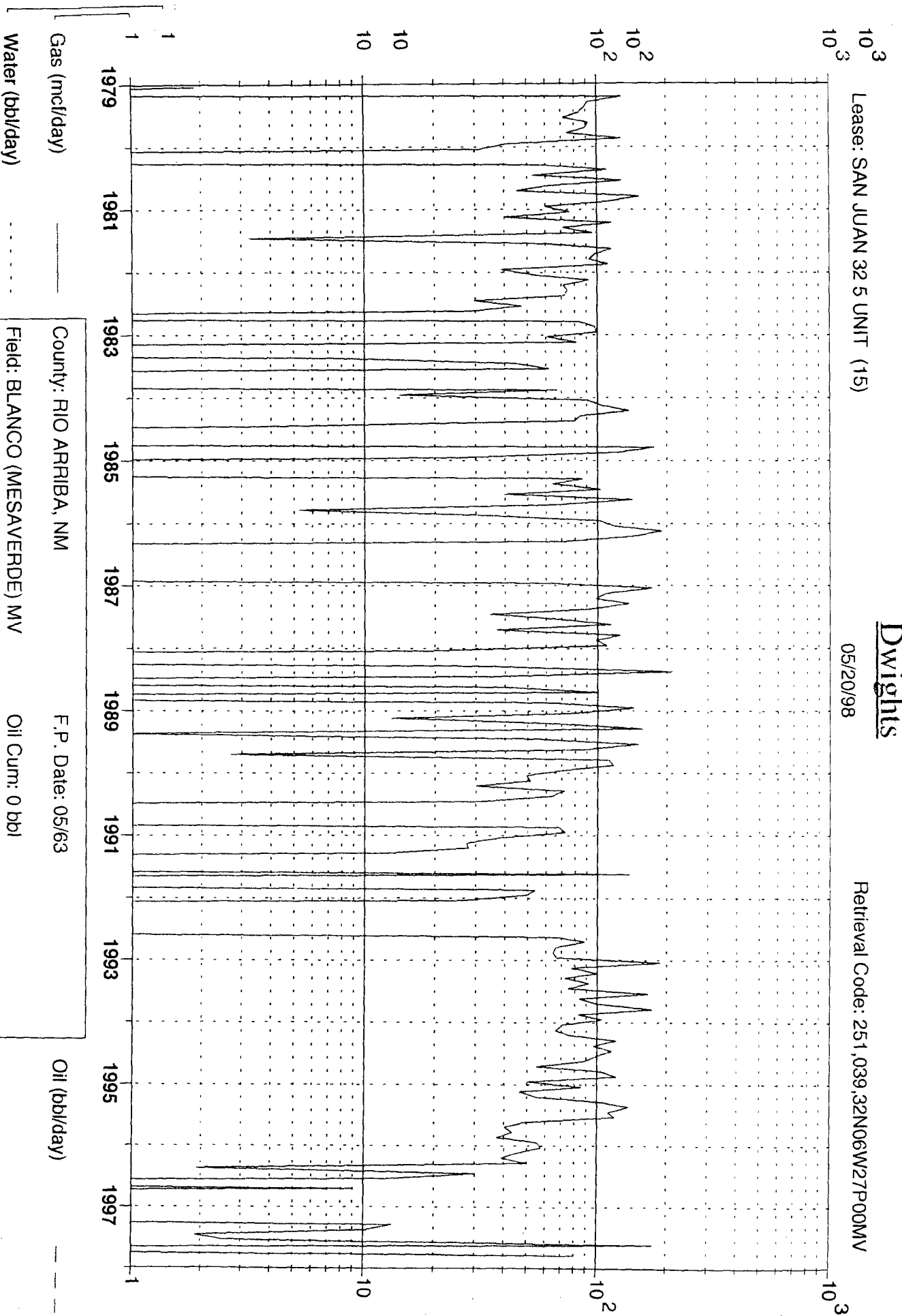
Location: 24L 32N 6W

Dwights

Lease: SAN JUAN 32.5 UNIT (15)

05/20/98

Retrieval Code: 251,039,32N06W27P00MV



County: RIO ARriba, NM F.P. Date: 05/63

Field: BLANCO (MESAVARDE) MV Oil Cum: 0 bbl

Reservoir: MESAVARDE Gas Cum: 1227 mmcf

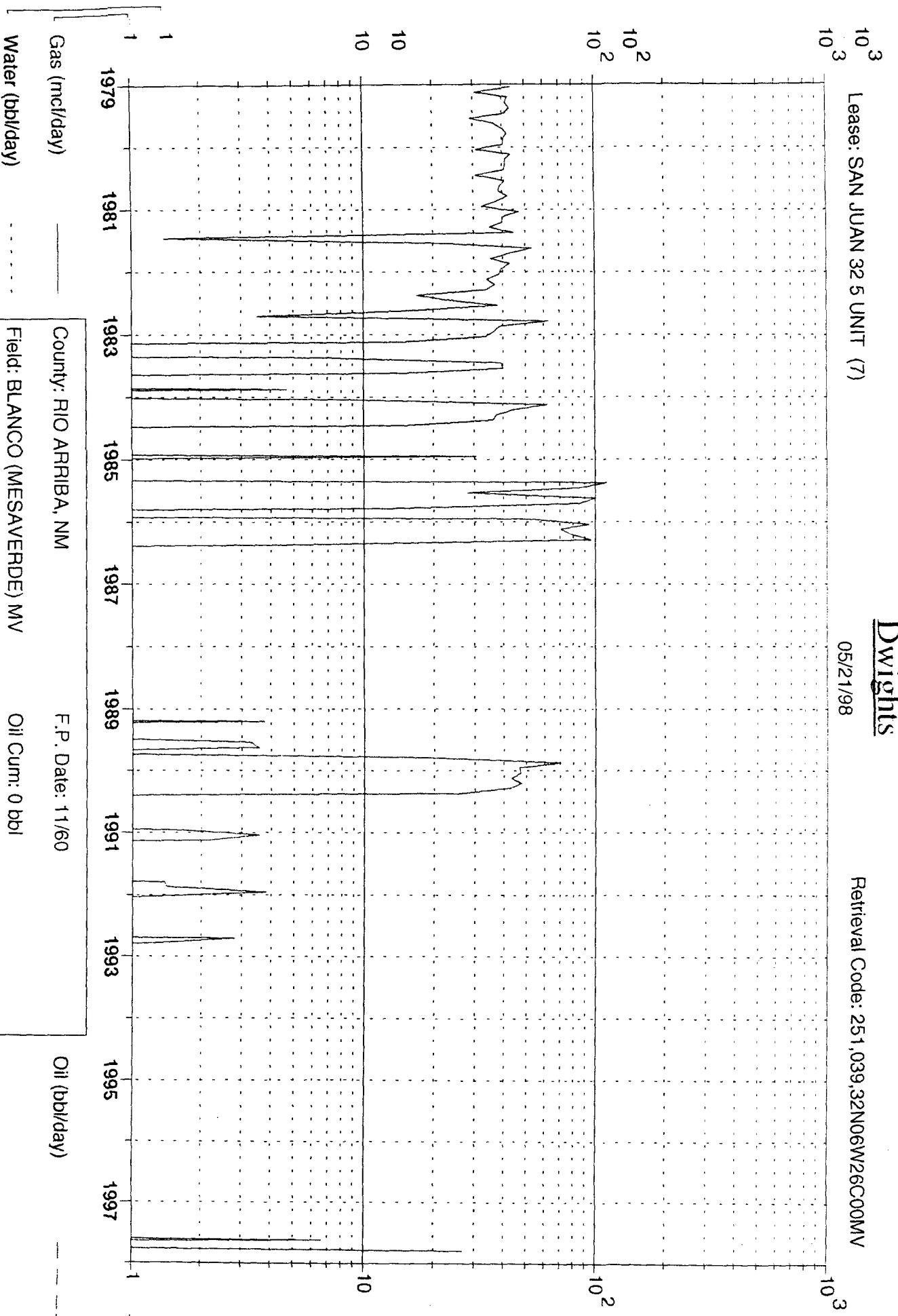
Operator: BURLINGTON RES O&G CO Location: 27P 32N 6W

Dwights

Lease: SAN JUAN 32.5 UNIT (7)

05/21/98

Retrieval Code: 251,039,32N06W26C00MV



Gas (mcf/day)

Water (bbl/day)

Oil (bbl/day)

County: RIO ARRIBA, NM

Field: BLANCO (MESAVARDE) MV

Reservoir: MESAVARDE

Operator: BURLINGTON RES O&G CO

F.P. Date: 11/60

Oil Cum: 0 bbl

Gas Cum: 488.1 mmcf

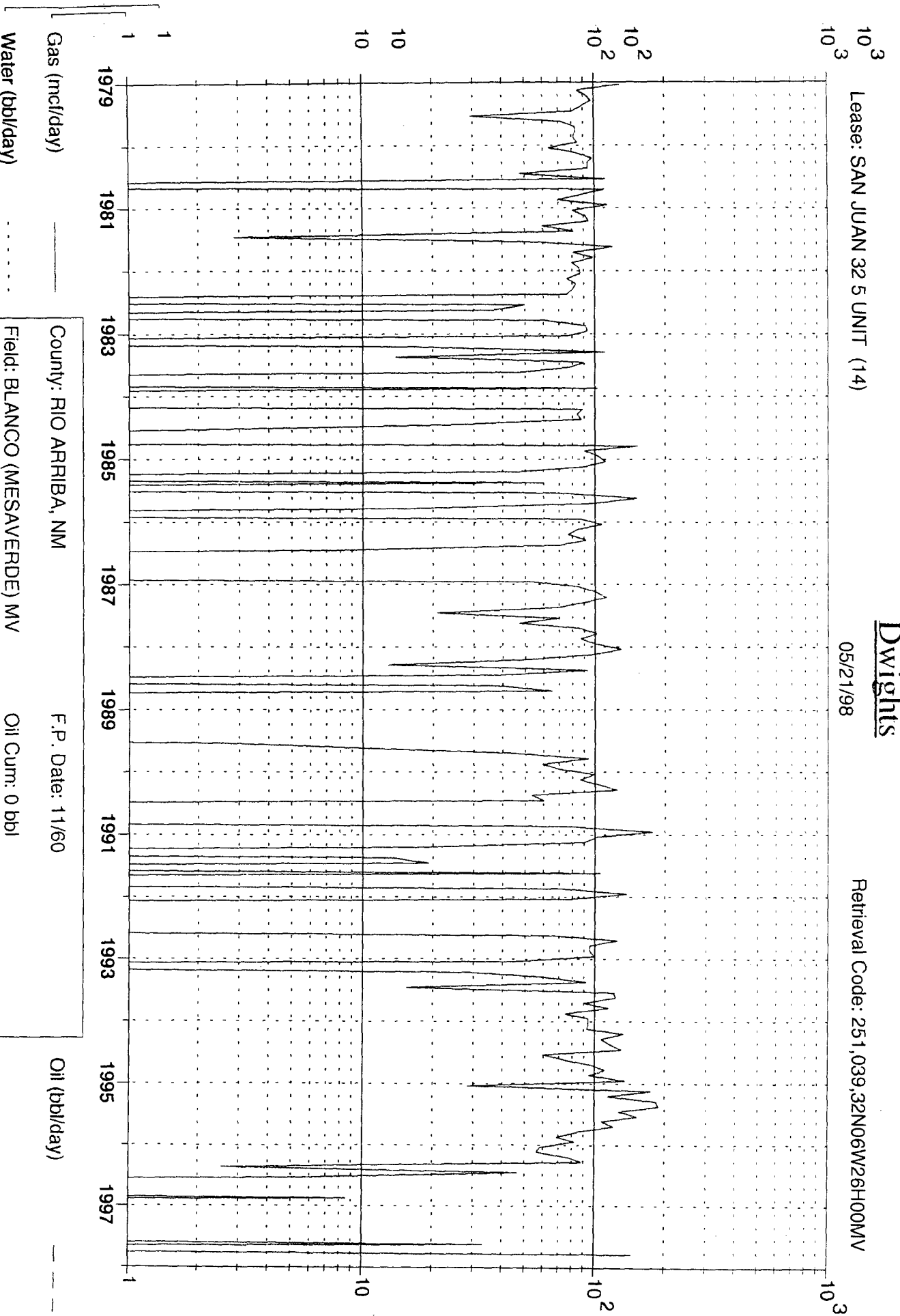
Location: 26C 32N 6W

Dwights

Lease: SAN JUAN 32 5 UNIT (14)

05/21/98

Retrieval Code: 251,039,32N06W26H00MV



County: RIO ARRIBA, NM

Field: BLANCO (MESAVERDE) MV

Reservoir: MESAVERDE

Operator: BURLINGTON RES O&G CO

F.P. Date: 11/60

Oil Cum: 0 bbl

Gas Cum: 1563 mmcf

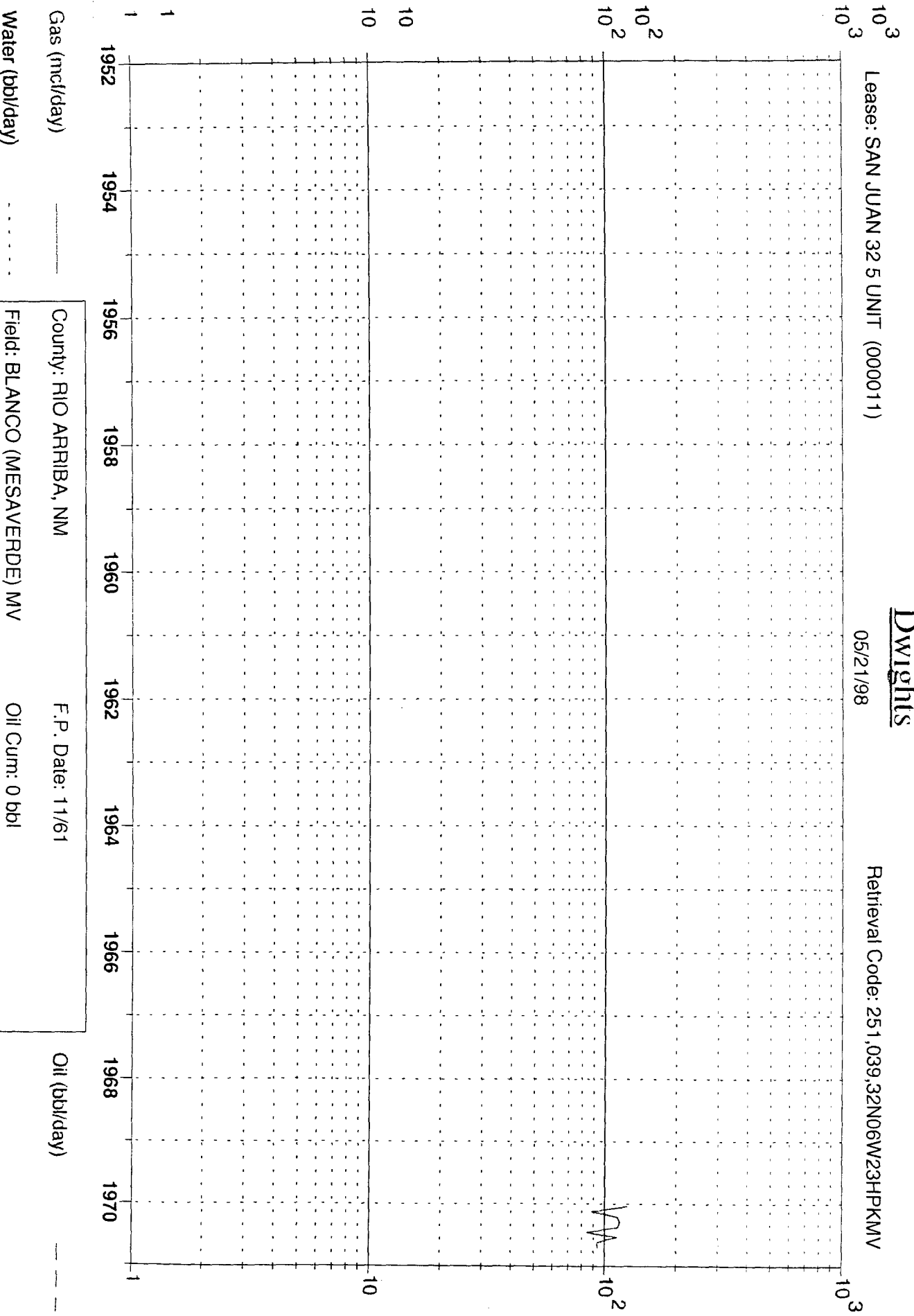
Location: 26H 32N 6W

Dwights

Lease: SAN JUAN 32 5 UNIT (000011)

05/21/98

Retrieval Code: 251,039,32N06W23HPKMV



County: RIO ARriba, NM

F.P. Date: 11/61

Field: BLANCO (MESAVERDE) MV

Oil Cum: 0 bbl

Reservoir: MESAVERDE

Gas Cum: 546.8 mmcf

Operator: EL PASO NATURAL GAS CO

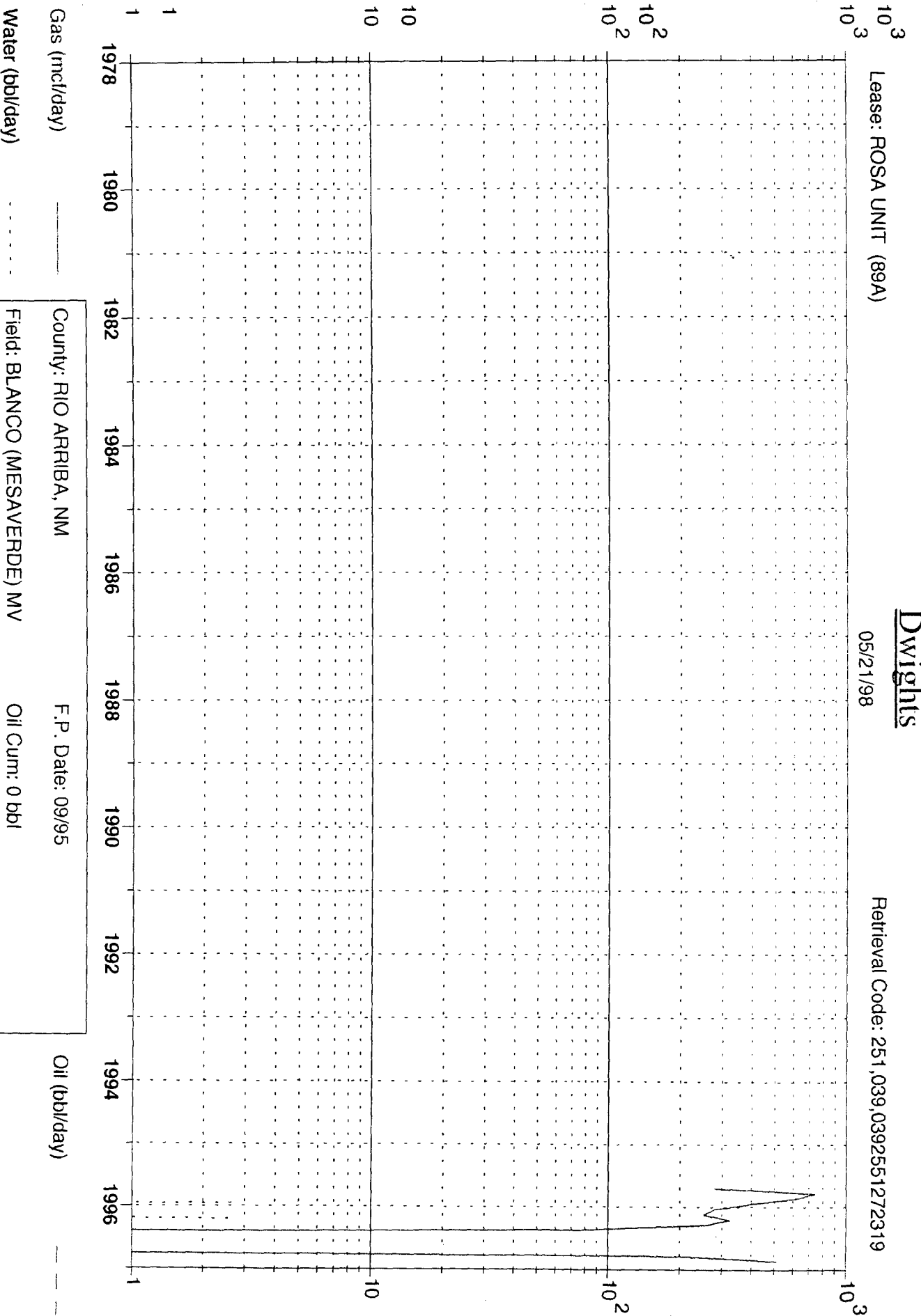
Location: 23H 32N 6W

Dwights

Lease: ROSA UNIT (89A)

05/21/98

Retrieval Code: 251,039,0392551272319



County: RIO ARRIBA, NM

Field: BLANCO (MESAVERDE) MV

Reservoir: MESAVERDE

Operator: WILLIAMS PRODUCTION CO

F.P. Date: 09/95

Oil Cum: 0 bbl

Gas Cum: 119.0 mmcf

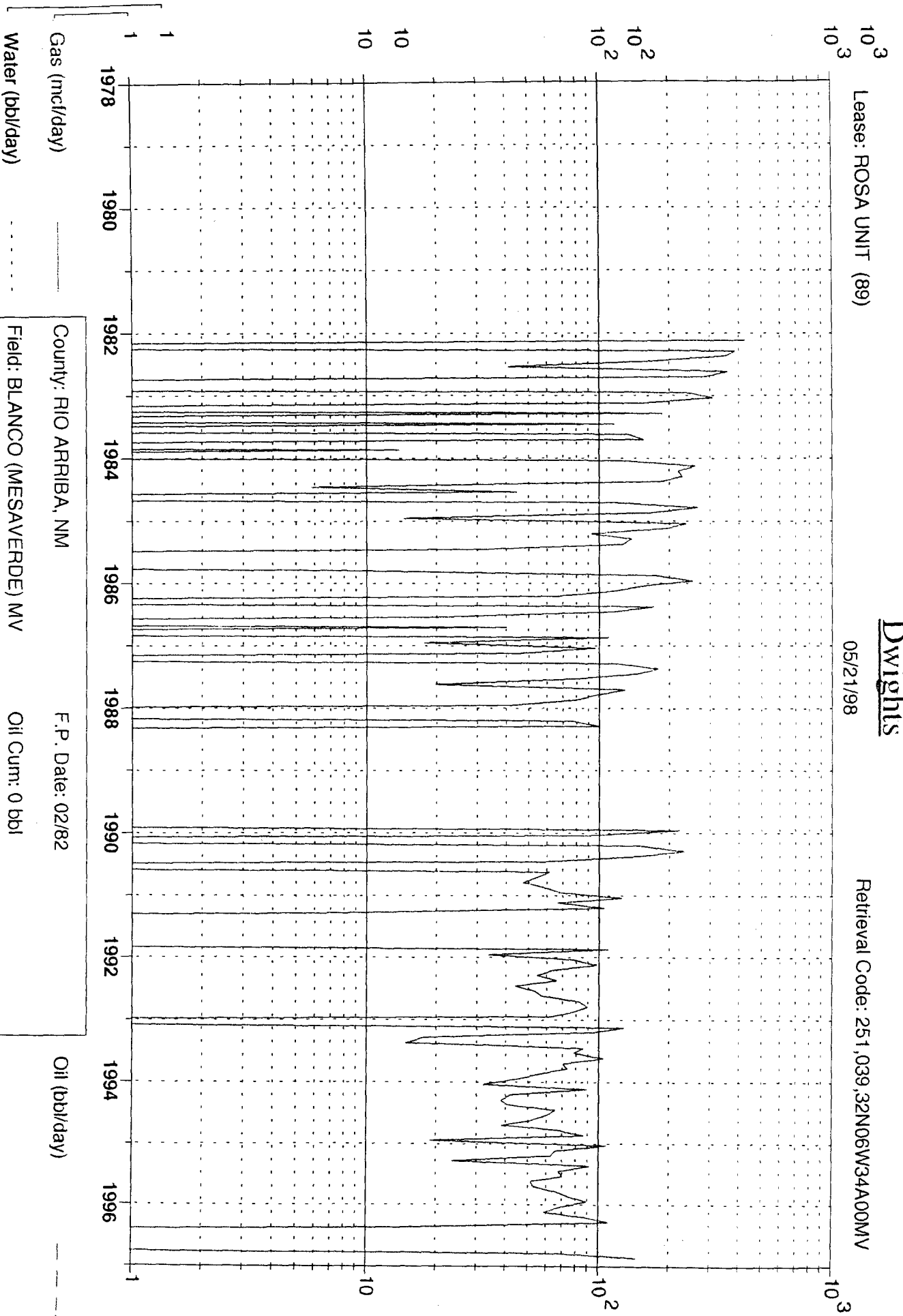
Location: 34O 32N 6W

Dwights

Lease: ROSA UNIT (89)

05/21/98

Retrieval Code: 251,039,32N06W34A00MV



Gas (mcf/day)

Water (bbl/day)

County: RIO ARRIBA, NM

Field: BLANCO (MESAVERDE) MV

Reservoir: MESAVERDE

Operator: WILLIAMS PRODUCTION CO

F.P. Date: 02/82

Oil Cum: 0 bbl

Gas Cum: 408.3 mmcf

Location: 34A 32N 6W

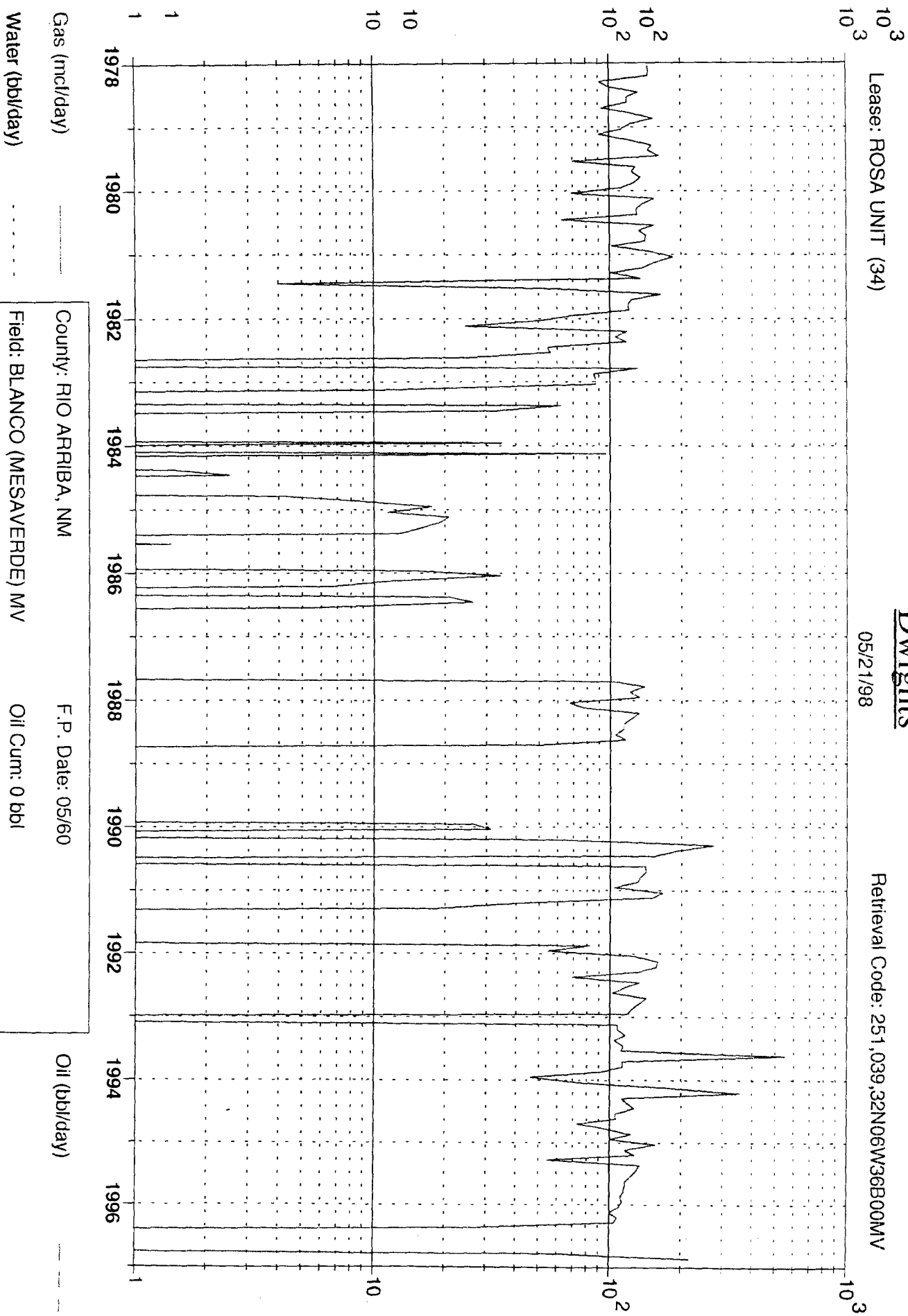
Oil (bbl/day)

Dwights

Lease: ROSA UNIT (34)

05/21/98

Retrieval Code: 251,039,32N06W36B00MV



Gas (mcf/day)

Water (bbl/day)

County: RIO ARriba, NM

Field: BLANCO (MESAVERDE) MV

Reservoir: MESAVERDE

Operator: WILLIAMS PRODUCTION CO

F.P. Date: 05/60

Oil Cum: 0 bbl

Gas Cum: 1659 mmcf

Location: 36B 32N 6W

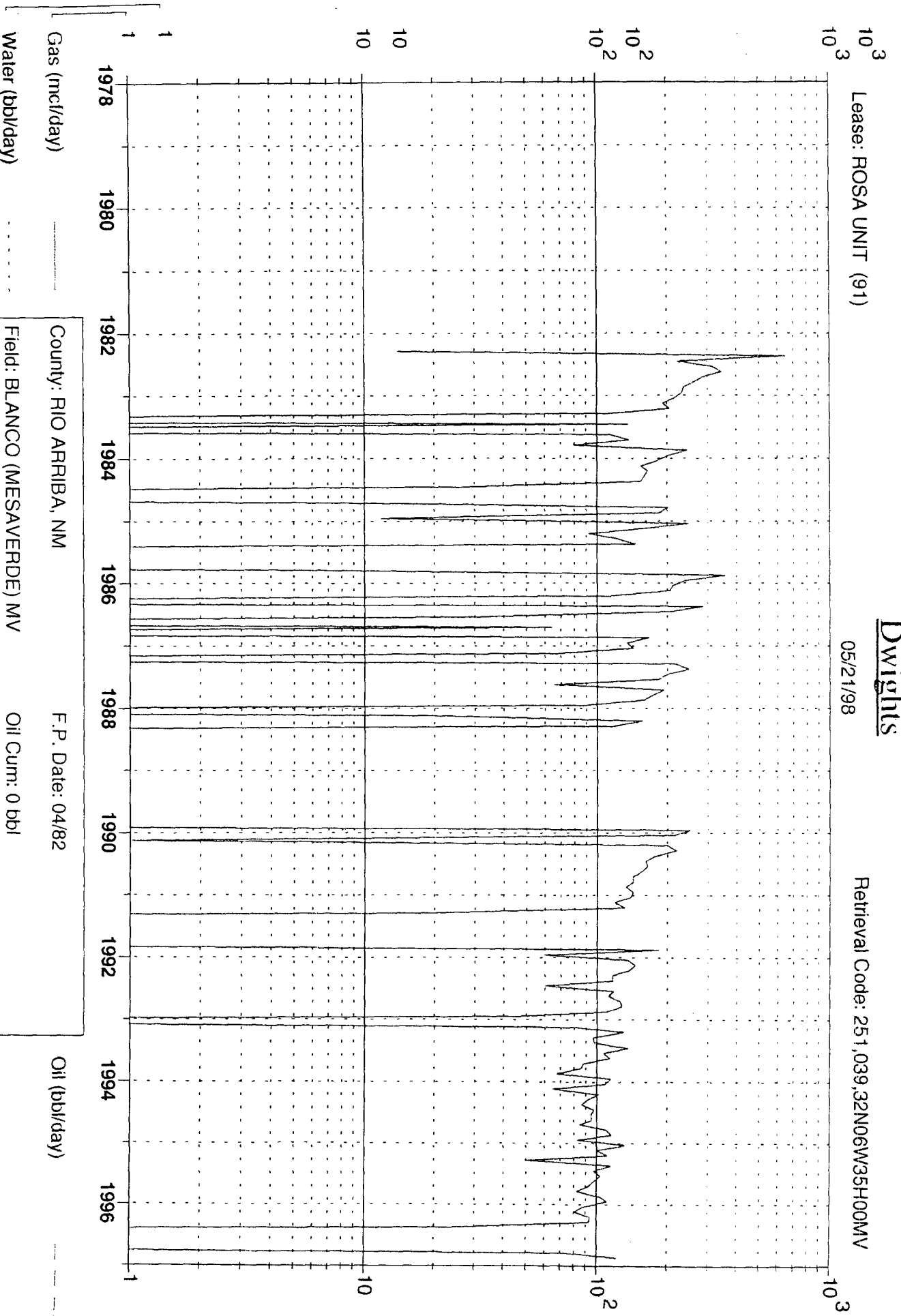
Oil (bbl/day)

Dwights

Lease: ROSA UNIT (91)

05/21/98

Retrieval Code: 251,039,32N06W35H00MV



County: RIO ARriba, NM

F.P. Date: 04/82

Field: BLANCO (MESAVERDE) MV

Oil Cum: 0 bbl

Reservoir: MESAVERDE

Gas Cum: 558.4 mmcf

Operator: WILLIAMS PRODUCTION CO

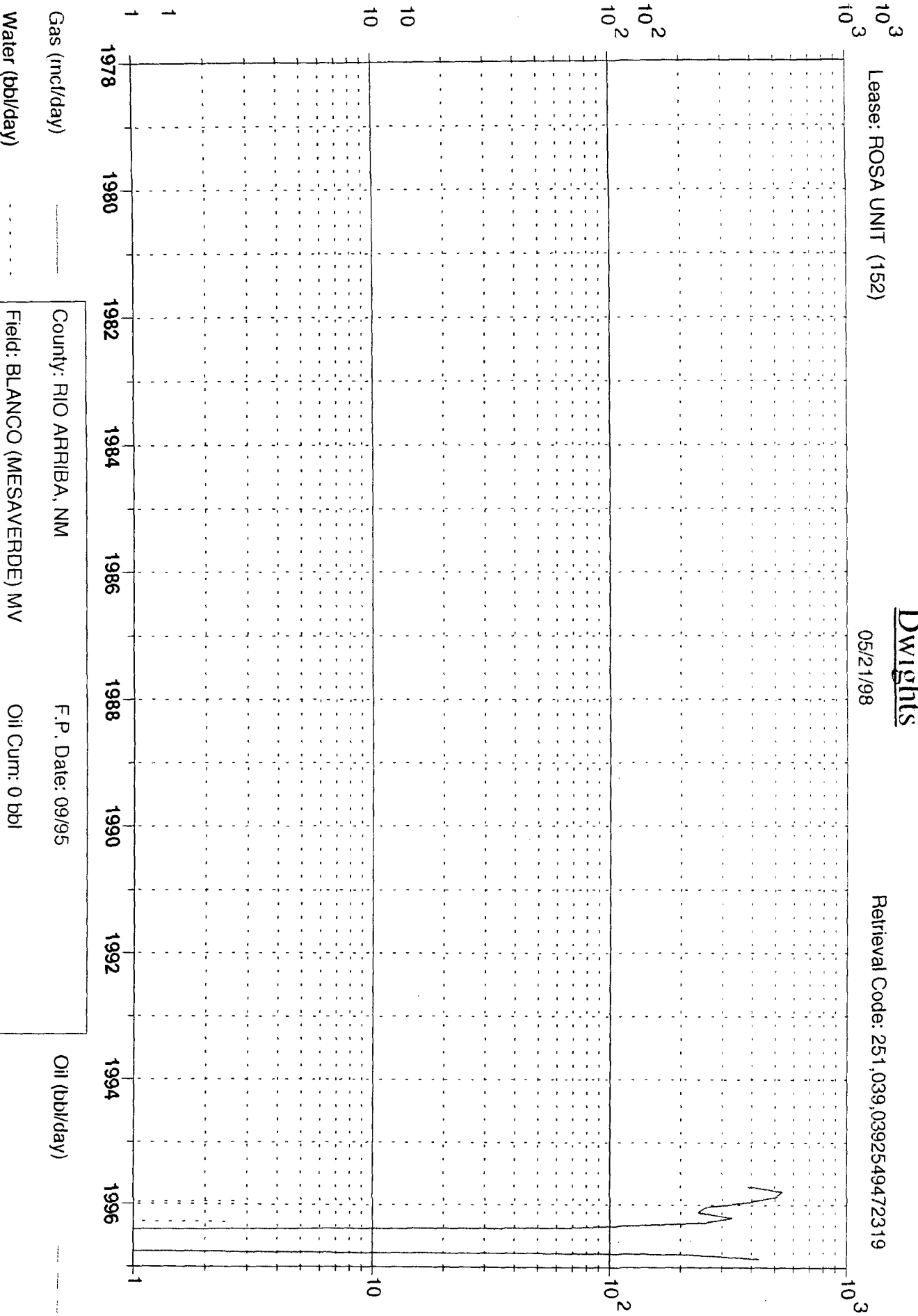
Location: 35H 32N 6W

Dwights

Lease: ROSA UNIT (152)

05/21/98

Retrieval Code: 251.039,0392549472319



County: RIO ARriba, NM

F.P. Date: 09/95

Field: BLANCO (MESAVERDE) MV

Oil Cum: 0 bbl

Reservoir: MESAVERDE

Gas Cum: 109.0 mmcf

Operator: WILLIAMS PRODUCTION CO

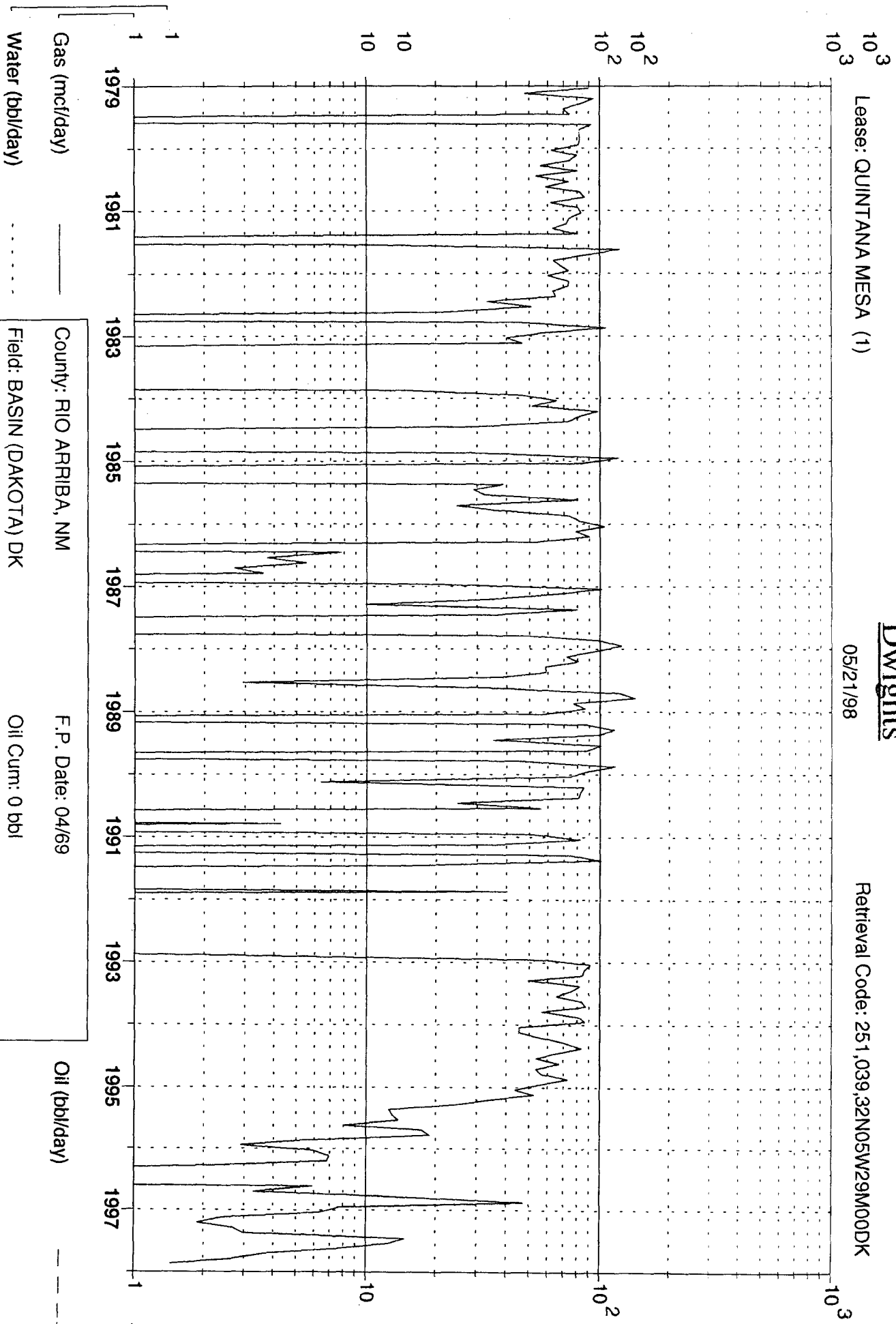
Location: 36E 32N 6W

Dwights

Lease: QUINTANA MESA (1)

05/21/98

Retrieval Code: 251,039,32N05W29M00DK



Gas (mcf/day)

Water (bbl/day)

County: RIO ARRIBA, NM

Field: BASIN (DAKOTA) DK

Reservoir: DAKOTA

Operator: BURLINGTON RES O&G CO

F.P. Date: 04/69

Oil Cum: 0 bbl

Gas Cum: 646.7 mmcf

Location: 29M 32N 5W

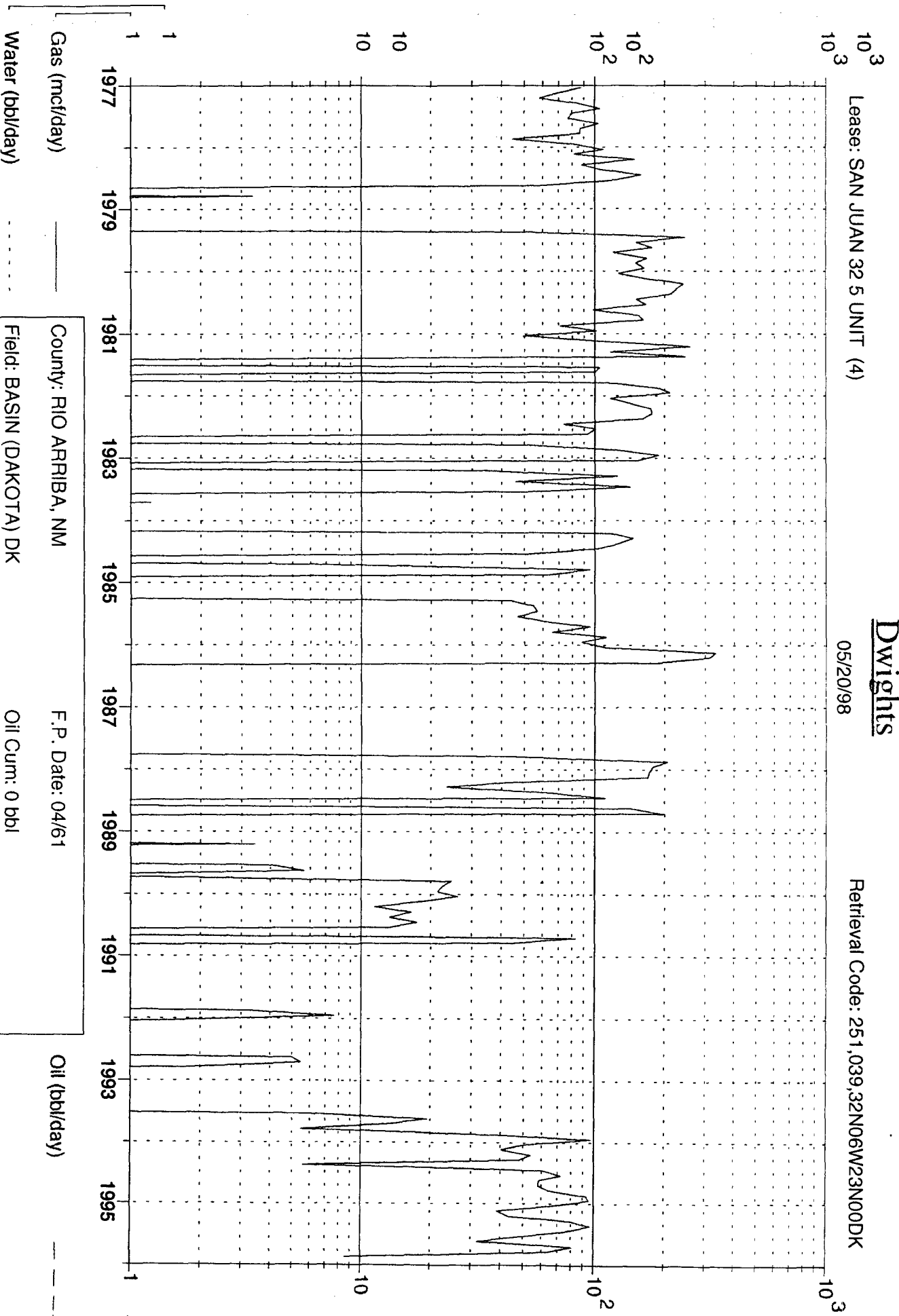
Oil (bbl/day)

Dwights

Lease: SAN JUAN 32 5 UNIT (4)

05/20/98

Retrieval Code: 251,039,32N06W23N00DK



County: RIO ARriba, NM

F.P. Date: 04/61

Field: BASIN (DAKOTA) DK

Oil Cum: 0 bbl

Reservoir: DAKOTA

Gas Cum: 1759 mmcf

Operator: BURLINGTON RES O&G CO

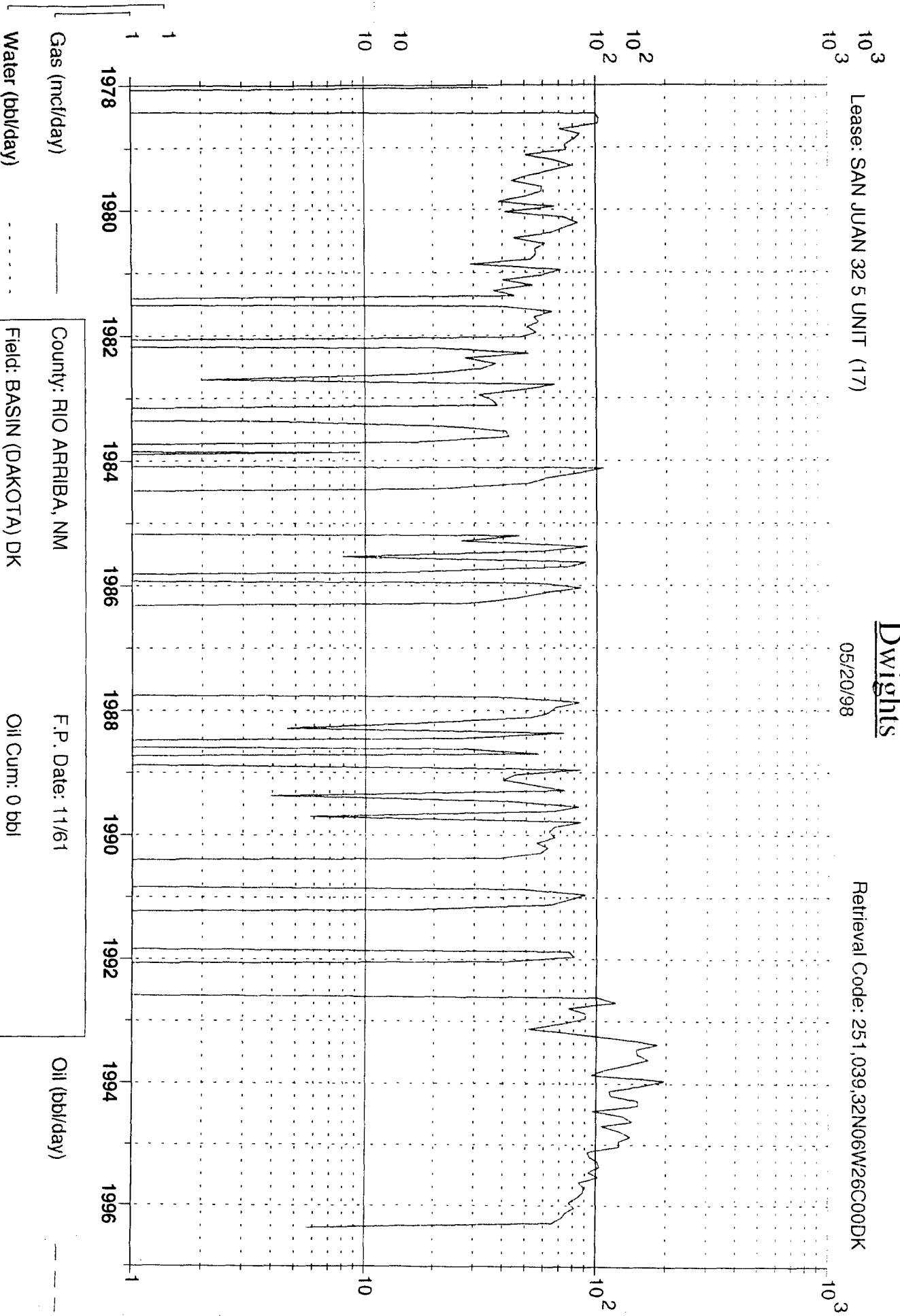
Location: 23N 32N 6W

Dwights

Lease: SAN JUAN 32 5 UNIT (17)

05/20/98

Retrieval Code: 251,039,32N06W26C00DK



County: RIO ARriba, NM

F.P. Date: 11/61

Field: BASIN (DAKOTA) DK

Oil Cum: 0 bbl

Reservoir: DAKOTA

Gas Cum: 1972 mmcf

Operator: BURLINGTON RES O&G CO

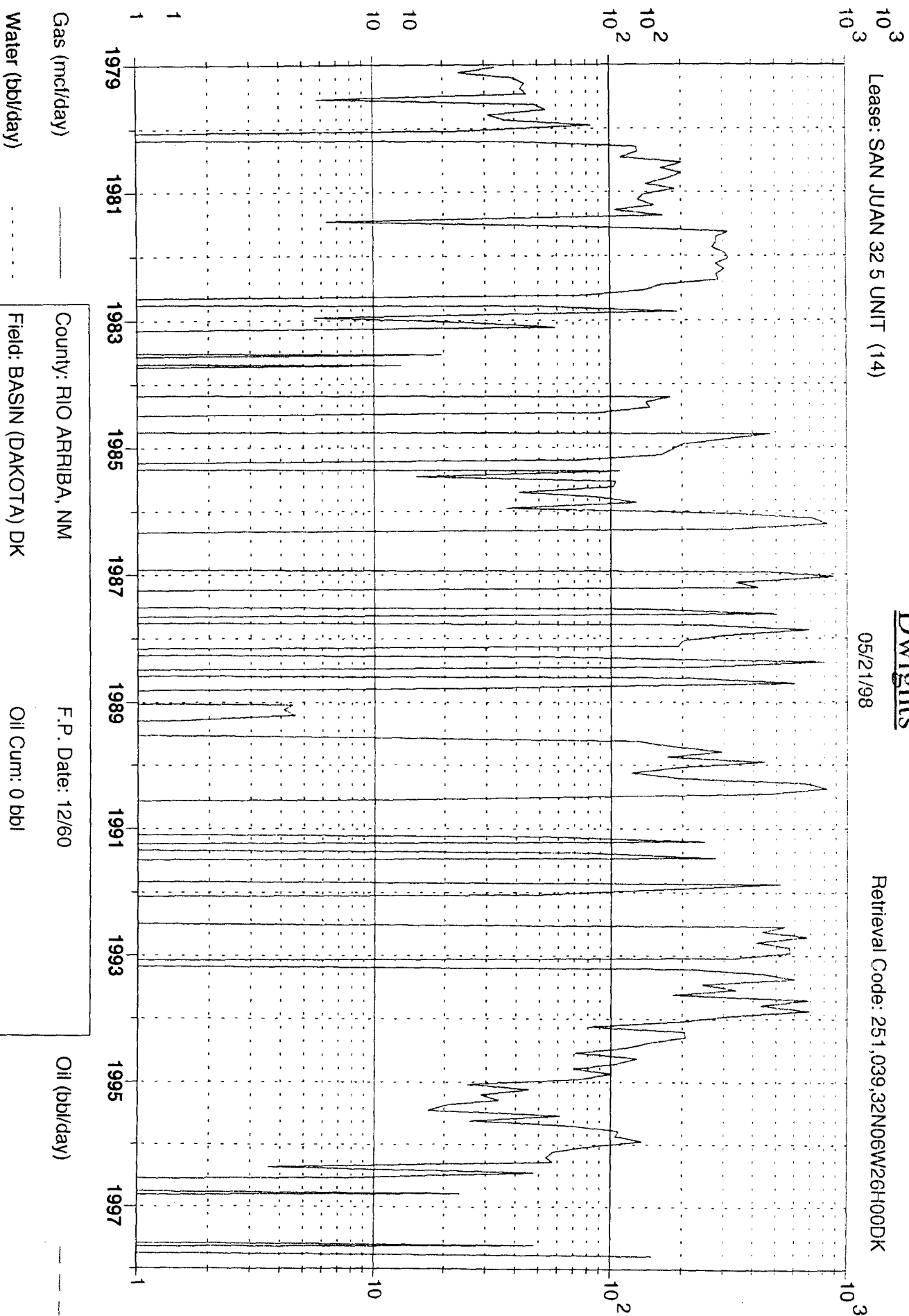
Location: 26C 32N 6W

Dwights

Lease: SAN JUAN 32 5 UNIT (14)

05/21/98

Retrieval Code: 251,039,32N06W26H00DK



Gas (mcf/day)

Water (bbl/day)

County: RIO ARriba, NM

Field: BASIN (DAKOTA) DK

Reservoir: DAKOTA

Operator: BURLINGTON RES O&G CO

F.P. Date: 12/60

Oil Cum: 0 bbl

Gas Cum: 2479 mmcf

Location: 26H 32N 6W

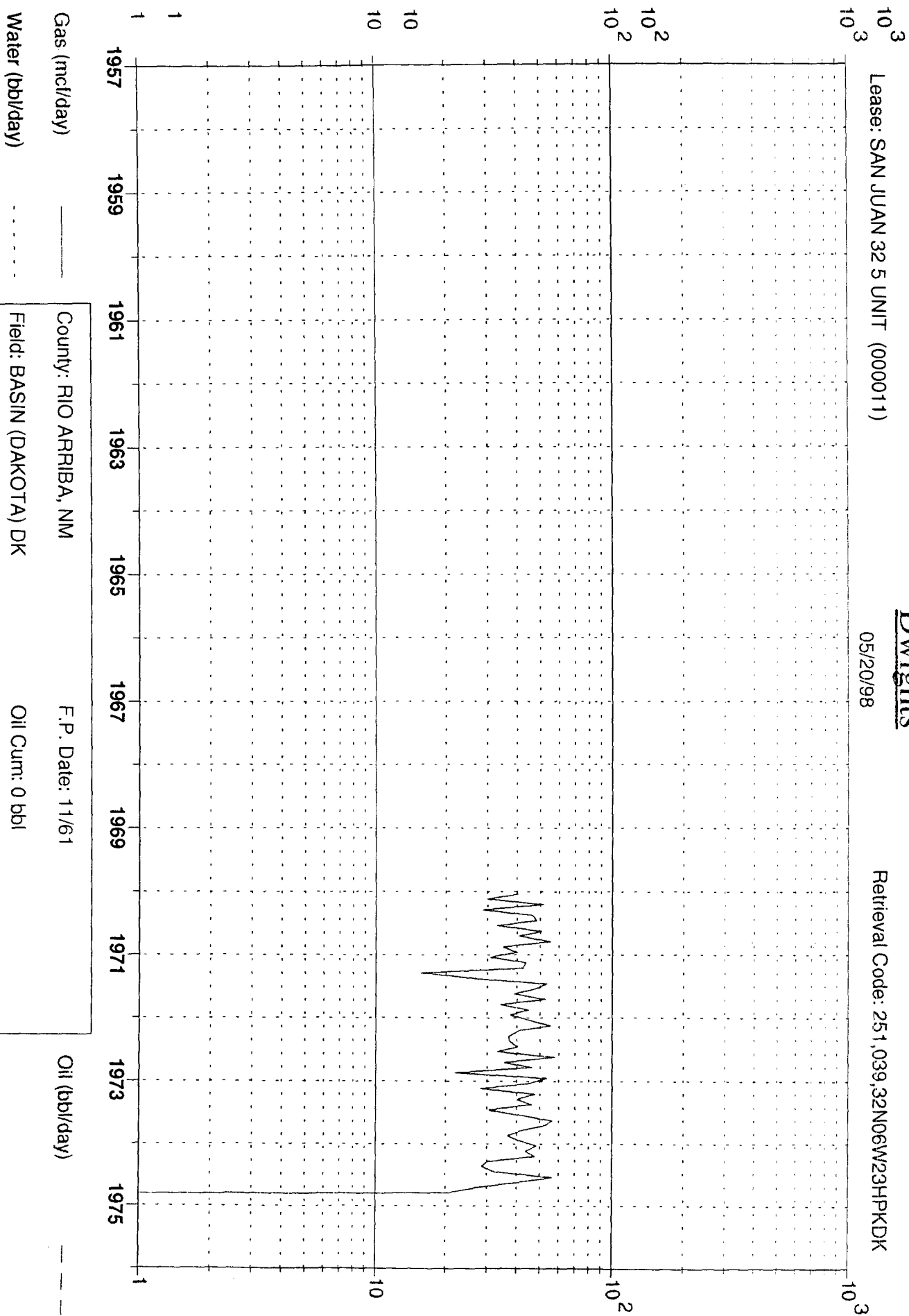
Oil (bbl/day)

Dwights

Lease: SAN JUAN 32 5 UNIT (000011)

05/20/98

Retrieval Code: 251,039,32N06W23HPKDK



Gas (mcf/day)

Water (bbl/day)

County: RIO ARriba, NM

Field: BASIN (DAKOTA) DK

Reservoir: DAKOTA

Operator: EL PASO NATURAL GAS CO

F.P. Date: 11/61

Oil Cum: 0 bbl

Gas Cum: 298.0 mmcf

Location: 23H 32N 6W

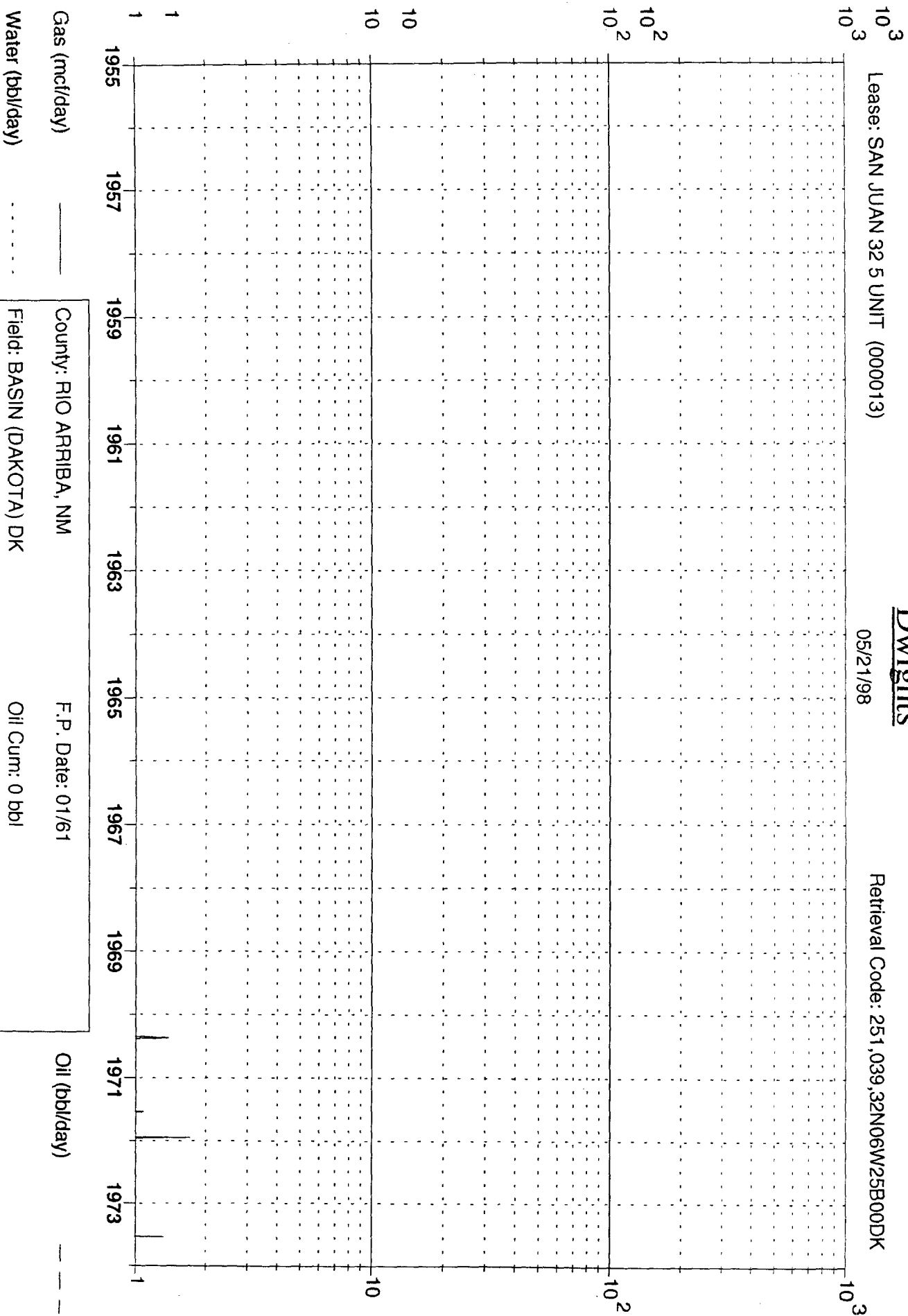
Oil (bbl/day)

Dwights

Lease: SAN JUAN 32.5 UNIT (000013)

05/21/98

Retrieval Code: 251,039,32N06W25B00DK



County: RIO ARriba, NM

F.P. Date: 01/61

Field: BASIN (DAKOTA) DK

Oil Cum: 0 bbl

Reservoir: DAKOTA

Gas Cum: 208.6 mmcf

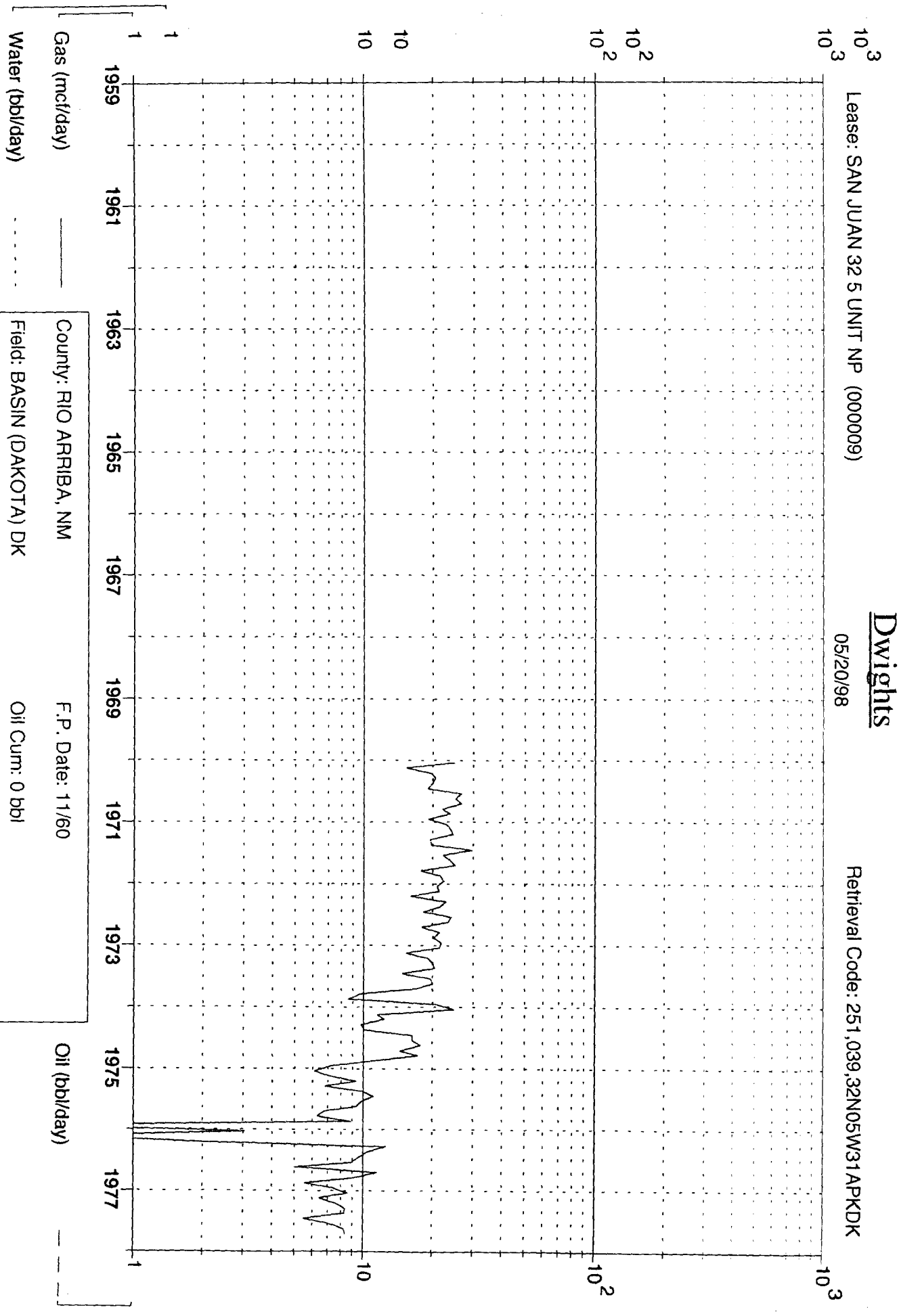
Operator: BURLINGTON RES O&G CO

Location: 25B 32N 6W

Lease: SAN JUAN 32 5 UNIT NP (0000009)

Dwights
05/20/98

Retrieval Code: 251,039,32N05W31APKDK



Gas (mcf/day)

Water (bbl/day)

County: RIO ARriba, NM

Field: BASIN (DAKOTA) DK

Reservoir: DAKOTA

Operator: EL PASO NATURAL GAS CO

F.P. Date: 11/60

Oil Cum: 0 bbl

Gas Cum: 151.0 mmmcf

Location: 31A 32N 5W

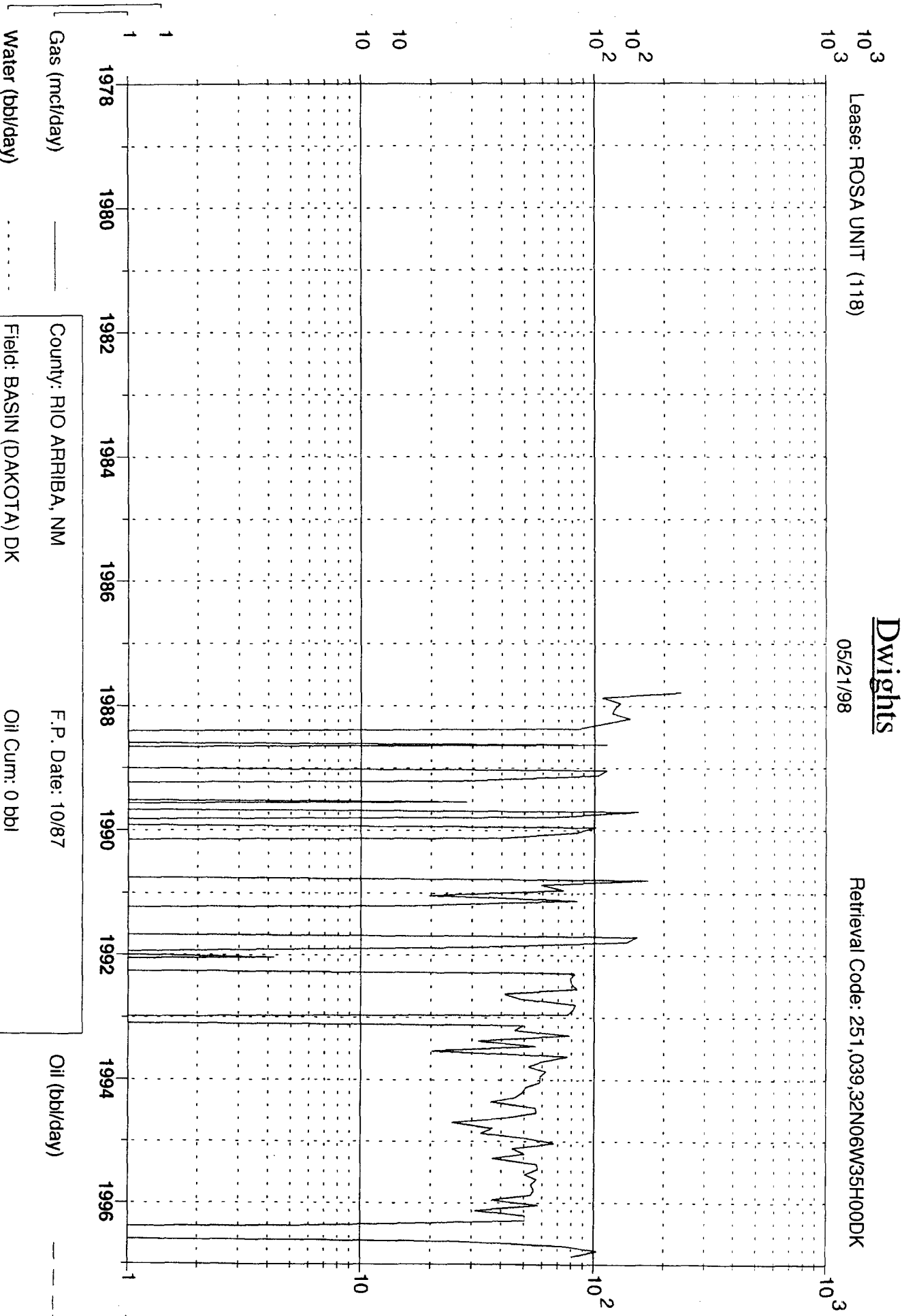
Oil (bbl/day)

Dwights

Lease: ROSA UNIT (118)

05/21/98

Retrieval Code: 251,039,32N06W35H00DK



Gas (mcf/day)

Water (bbl/day)

County: RIO ARriba, NM

Field: BASIN (DAKOTA) DK

Reservoir: DAKOTA

Operator: WILLIAMS PRODUCTION CO

F.P. Date: 10/87

Oil Cum: 0 bbl

Gas Cum: 167.8 mmcf

Location: 35H 32N 6W

Oil (bbl/day)

Lease: SAN JUAN 32 5 UNIT (0000005)

Dwights
05/21/98

Retrieval Code: 251,039,32N06W24MPADK

No Data or Data Out of Range for This Property

Gas (mcf/day) _____
Water (bbl/day)

Oil (bbl/day) _____

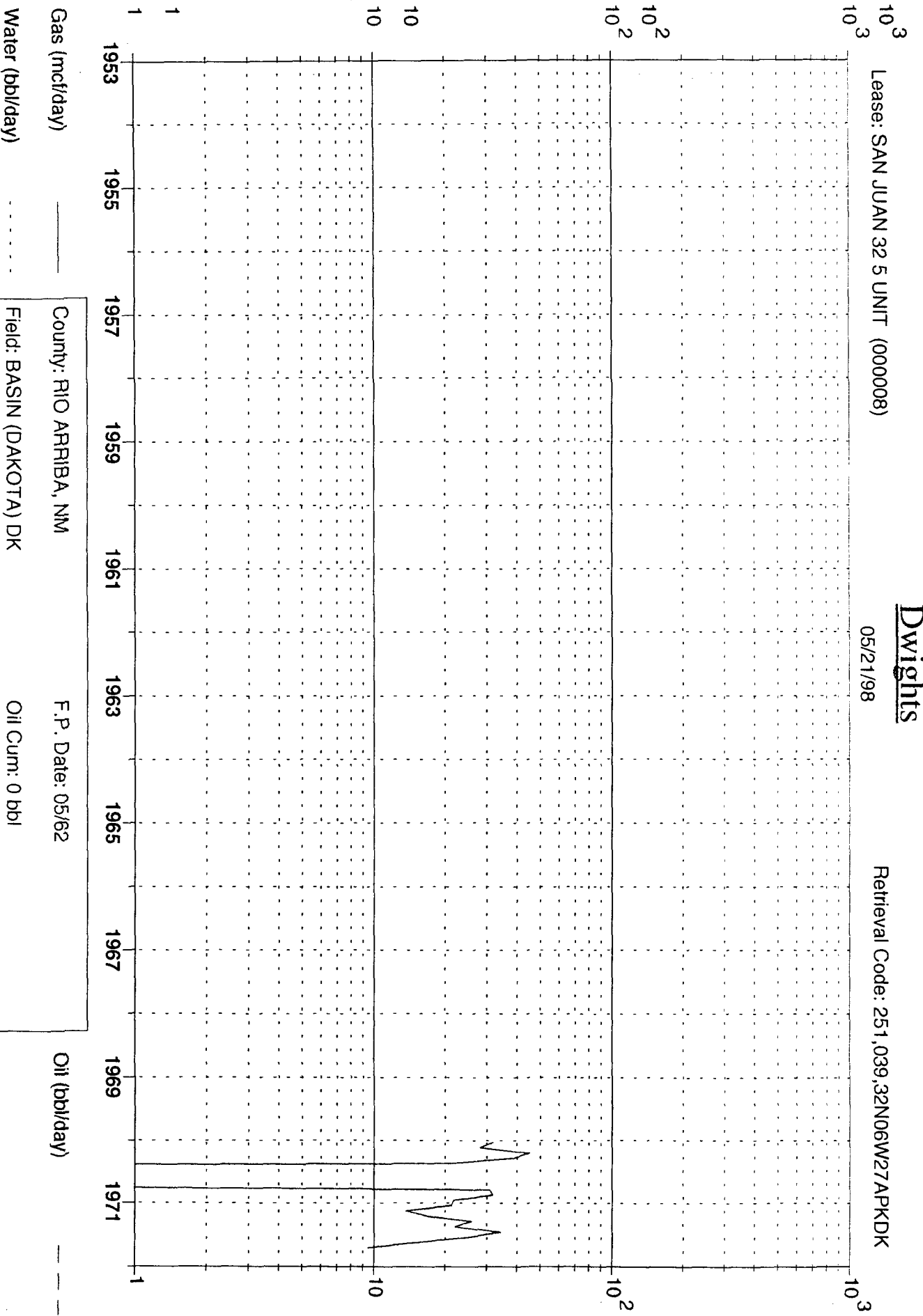
County: RIO ARriba, NM	F.P. Date: N/A
Field: BASIN (DAKOTA) DK	Oil Cum: 0 bbl
Reservoir: DAKOTA	Gas Cum: 1956 mmcf
Operator: EL PASO NATURAL GAS CO	Location: 24M 32N 6W

Dwights

Lease: SAN JUAN 32 5 UNIT (000008)

05/21/98

Retrieval Code: 251,039,32N06W27APKDK



County: RIO ARriba, NM

F.P. Date: 05/62

Field: BASIN (DAKOTA) DK

Oil Cum: 0 bbl

Reservoir: DAKOTA

Gas Cum: 159.1 mmmcf

Operator: EL PASO NATURAL GAS CO

Location: 27A 32N 6W

Lease: SAN JUAN 32 5 UNIT (000015)

Dwights
05/21/98

Retrieval Code: 251,039,32N06W27PPIDK

No Data or Data Out of Range for This Property

Gas (mcf/day) —
Water (bbl/day) - - - - -

Oil (bbl/day) — - - -

County: RIO ARriba, NM	F.P. Date: 05/63
Field: BASIN (DAKOTA) DK	Oil Cum: 0 bbl
Reservoir: DAKOTA	Gas Cum: 117.2 mmcf
Operator: EL PASO NATURAL GAS CO	Location: 27P 32N 6W