

OIL CONSERVATION DIVISION

2040 S. Pacheco
Santa Fe, New Mexico 87505-6429

APPROVAL PROCESS:

☒ Administrative ☐ Hearing

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

☒ YES ☐ NO

Amoco Production Company

PO Box 800 Denver, CO 80201

Operator
Mudge Com B

#2

Address
E 1431N-11W

San Juan

Lease Well No. Unit Ltr. - Sec Twp - Rge County

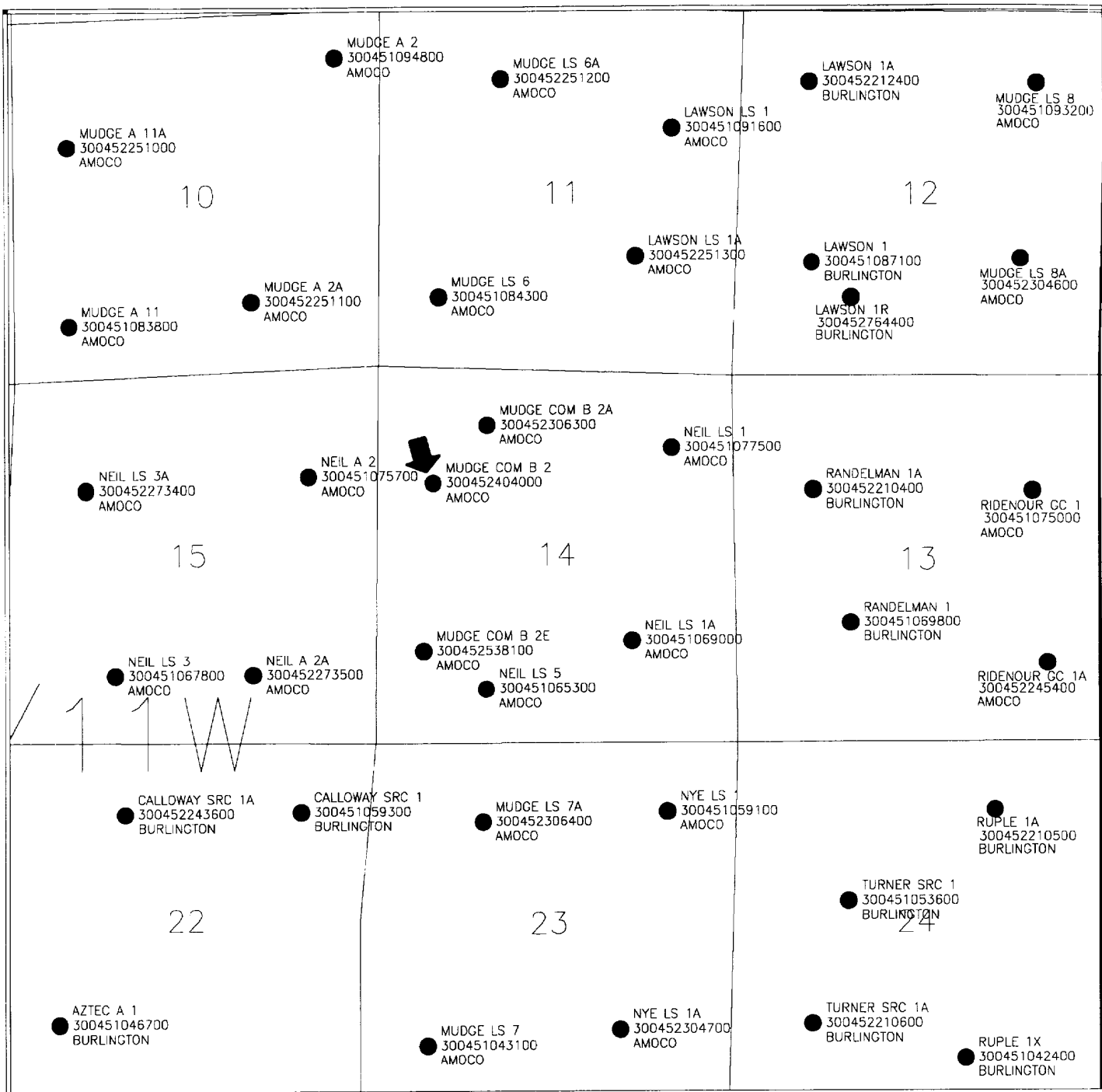
OGRID NO. 000778 Property Code 000908 API NO. 300452404000 Spacing Unit Lease Types: (check 1 or more)
Federal ☒ State ☐ (and/or) Fee ☐

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)	4265'-5255' (est.)		7110'-7285'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	a. (Current) 570 psi (est) b. (Original) 1200 psi (est)	a. b.	a. 1118 psi b. 2226 psi
6. Oil Gravity (* API) or Gas BTU Content	1235 btu (est)		1122 btu
7. Producing or Shut-In?	Will be Producing		Producing
Production Marginal? (yes or no) • If Shut-In, give data 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)	No Date: Rates:	 Date: Rates:	Yes Date: Rates:
8. Fixed Percentage Allocation Formula -% for each zone	Oil: 28 % Gas %	Oil: % Gas %	Oil: 72 % 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. SEE ATTACHED
10. Are all working, overriding, and royalty interests identical in all commingled zones? ☒ Yes ☐ No
If not, have all working, overriding, and royalty interests been notified by certified mail? ☐ Yes ☐ No
Have all offset operators been given written notice of the proposed downhole commingling? ☒ Yes ☐ No
11. Will cross-flow occur? ☐ Yes ☒ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. ☐ Yes ☐ No (If No, attach explanation)
12. Are all produced fluids from all commingled zones compatible with each other? ☒ Yes ☐ No
13. Will the value of production be decreased by commingling? ☐ Yes ☒ No (If Yes, attach explanation)
14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. ☒ Yes ☐ No SF-078051 COM AGREEMENT SRM-1529
15. NMOCED 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 Pamela W. Staley TITLE Regulatory Affairs Engineer DATE Nov 18, 1998
TYPE OR PRINT NAME Pamela W. Staley TELEPHONE NO. (303) 830-5344



AMOCO PRODUCTION COMPANY		
WU/LS COM B 2 - RECOMPLETION MESAVERDE 3 SECTION PLAT 14-133N-211W		
42		10/2/98
Scale: 1/2500'		

LEGEND	
●	ACTIVE MESAVERDE WELLS
●	INACTIVE MESAVERDE WELLS
●	RECOMPLETION CANDIDATE

311 South First., Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, New Mexico 87505

Revised October 18, 199
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

RECEIVED
BLM

93 OCT -7 AM 10:01

WELL LOCATION AND ACREAGE DEDICATION PLAT, NM

API Number 3004524040		Pool Code 72319	Pool Name Blanco Mesaverde	
Property Code 000908	Property Name Mudge Com B			Well Number #2
OGRID No. 000778	Operator Name AMOCO PRODUCTION COMPANY			Elevation 6048 GL

Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
UNIT E	14	31N	11W		1660	NORTH	810	WEST	San Juan

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West Line	County

Dedicated Acreage: 320.00	Joint or Infill	Consolidation Code	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

	OPERATOR CERTIFICATION	
	I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief	
	Signature Gail M. Jefferson	
	Printed Name Sr. Admin. Staff Asst.	
	Position	
	Date 10/06/1998	
	SURVEY 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 knowledge and belief.	
	August 16, 1979	
Date of Survey		
Signature & Seal of Professional Surveyor		
Fred B. Kerr, Jr.		
Certificate No. 3950		

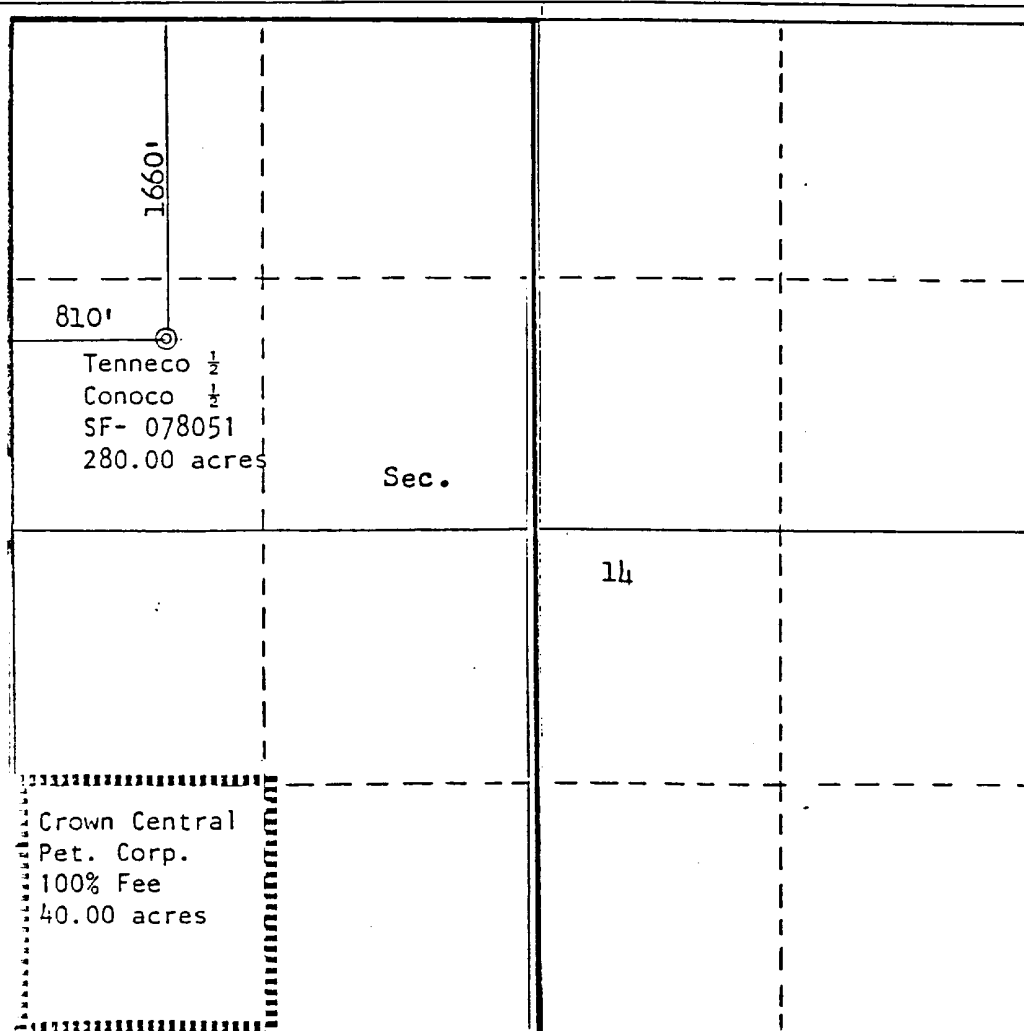
Operator TENNECO OIL COMPANY			Lease MUDGE COM "B"		Well No. 2
Unit Letter E	Section 14	Township 31N	Range 11W	County San Juan	
Actual Footage Location of Well:					
1660 feet from the North line and		810 feet from the West line			
Ground Level Elev. 6048	Producing Formation Dakota	Pool Basin Dakota	Dedicated Acreage: 320.00 Ac		

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 worki interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been conso dated by communitization, unitization, force-pooling, etc?

☒ Yes ☐ No If answer is "yes," type of consolidation Communitization

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side 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 Commi sion.



CERTIFICATION

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

Name

Position

Staff Production Analyst

Company

Tenneco Oil Company

Date

11/21/79

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 16, 1979

Registered Professional Engineer and/or Land Surveyor

Fred B. Kerr Jr.

Certificate No.

3950

MudgeComB 2A

DK	0.08	PC	0.04
MV	0.07	FT	0.04
		CK	0.04

WELL NAME: MUDGE COM B #2

FORMATION: DK

SURFACE PRESS: 542.2

PERFS TOP: 7110 (7110 + 7285) / 2 = 7198 Mid Perf

BOTTOM: 7285 7198 x 0.08 = 575.8

TOP BOTTOM 576 + 542.2 = 1118 Bottom Hole Pressure

Initial Bottom Hole Pressure

DEHLI-MUDGE #3 IBHP= 2228

WELL NAME: MUDGE LS 6

FORMATION: MV

SURFACE PRESS: 128

PERFS TOP: 4419 (4419 + 5242) / 2 = 4831 Mid Perf

BOTTOM: 5242 4831 x 0.07 = 338

TOP BOTTOM 338 + 128 = 466 Bottom Hole Pressure

Initial Bottom Hole Pressure 1229

WELL NAME: NEIL A #2

FORMATION: MV

SURFACE PRESS: 340

PERFS TOP: 4388 (4388 + 5126) / 2 = 4757 Mid Perf

BOTTOM: 5126 4757 x 0.07 = 333

TOP BOTTOM 333 + 340.1 = 673 Bottom Hole Pressure

Initial Bottom Hole Pressure= 1170

WELL NAME: MUDGE COM B #2

FORMATION: MV

Initial Bottom Hole Pressure: (1229 + 1170) / 2 = 1200 est.

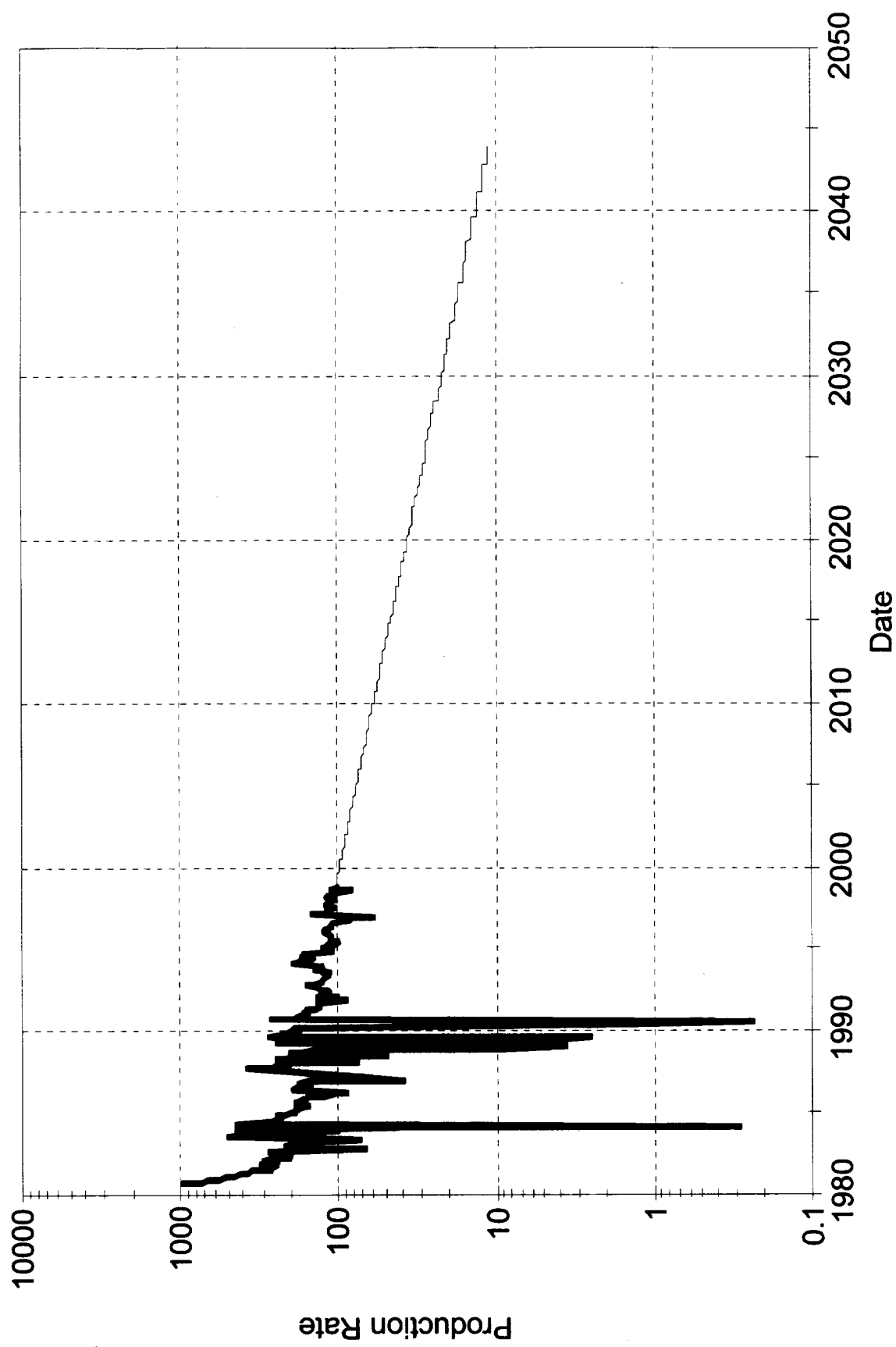
Bottom Hole Pressure: (466 + 673) / 2 = 570 est.

MUDGE LS #6/NEIL A #2 bbls (101 + 0) / 2 = 51 est.

ALLOCATION

FM	BBL	%	GAS	%
DK	127	72%		0%
MV	51	28%		0%

User1
MUDGE COM B#2,602DKOT



— Prod Stream Gas (mscfd) — Operations Forecast (mscfd)

Date	MCFD	
1/31/98	102.16	
2/28/98	120	
3/31/98	117.74	
4/30/98	112.87	
5/31/98	107.81	
6/30/98	104.47	
7/31/98	106.39	
8/31/98	79	
9/30/98	115	
10/31/98	99	
11/1/98	104	Forecast
12/1/98	104	
1/1/99	103	
2/1/99	103	
3/1/99	102	
4/1/99	102	
5/1/99	102	
6/1/99	101	
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6/1/11	55
7/1/11	55
8/1/11	55

Date	MCFD	
1/31/98	6.55	
2/28/98	31	
3/31/98	13.9	
4/30/98	12.6	
5/31/98	24.97	
6/30/98	31.87	
7/31/98	36.77	
8/31/98	32.77	
9/30/98	30	
10/31/98	45	
11/1/98	30.63	Forecast
12/1/98	30.32	
1/1/99	30.02	
2/1/99	29.72	
3/1/99	29.43	
4/1/99	29.13	
5/1/99	28.84	
6/1/99	28.56	
7/1/99	28.27	
8/1/99	27.99	
9/1/99	27.71	
10/1/99	27.44	
11/1/99	27.16	
12/1/99	26.89	
1/1/00	26.62	
2/1/00	26.36	
3/1/00	26.1	
4/1/00	25.84	
5/1/00	25.58	
6/1/00	25.33	
7/1/00	25.07	
8/1/00	24.82	
9/1/00	24.58	
10/1/00	24.33	
11/1/00	24.09	
12/1/00	23.85	
1/1/01	23.61	
2/1/01	23.38	
3/1/01	23.14	
4/1/01	22.91	
5/1/01	22.69	
6/1/01	22.46	
7/1/01	22.24	
8/1/01	22.02	
9/1/01	21.8	
10/1/01	21.58	
11/1/01	21.36	
12/1/01	21.15	
1/1/02	20.94	
2/1/02	20.73	
3/1/02	20.53	
4/1/02	20.32	

5/1/02	20.12	
6/1/02	19.92	
7/1/02	19.72	
8/1/02	19.52	
9/1/02	19.33	
10/1/02	19.14	
11/1/02	18.95	
12/1/02	18.76	
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5/1/03	17.84	
6/1/03	17.67	
7/1/03	17.49	
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9/1/03	17.14	
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11/1/03	16.8	
12/1/03	16.64	
1/1/04	16.47	
2/1/04	16.31	
3/1/04	16.14	
4/1/04	15.98	
5/1/04	15.82	
6/1/04	15.67	
7/1/04	15.51	
8/1/04	15.36	
9/1/04	15.2	
10/1/04	15.05	
11/1/04	14.9	
12/1/04	14.75	
1/1/05	14.61	
2/1/05	14.46	
3/1/05	14.32	
4/1/05	14.18	
5/1/05	14.03	
6/1/05	13.89	
7/1/05	13.76	
8/1/05	13.62	
9/1/05	13.48	
10/1/05	13.35	
11/1/05	13.22	
12/1/05	13.09	
1/1/06	12.96	
2/1/06	12.83	
3/1/06	12.7	
4/1/06	12.57	
5/1/06	12.45	
6/1/06	12.32	
7/1/06	12.2	
8/1/06	12.08	
9/1/06	11.96	

10/1/06	11.84	
11/1/06	11.72	
12/1/06	11.6	
1/1/07	11.49	
2/1/07	11.38	
3/1/07	11.26	
4/1/07	11.15	
5/1/07	11.04	
6/1/07	10.93	
7/1/07	10.82	
8/1/07	10.71	
9/1/07	10.61	
10/1/07	10.5	
11/1/07	10.4	
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1/1/08	10.19	
2/1/08	10.09	
3/1/08	9.99	
4/1/08	9.89	
5/1/08	9.79	
6/1/08	9.69	
7/1/08	9.6	
8/1/08	9.5	
9/1/08	9.41	
10/1/08	9.31	
11/1/08	9.22	
12/1/08	9.13	
1/1/09	9.04	
2/1/09	8.95	
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7/1/09	8.51	
8/1/09	8.43	
9/1/09	8.34	
10/1/09	8.26	
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1/1/10	8.01	
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5/1/10	7.7	
6/1/10	7.62	
7/1/10	7.55	
8/1/10	7.47	
9/1/10	7.4	
10/1/10	7.32	
11/1/10	7.25	
12/1/10	7.18	
1/1/11	7.11	
2/1/11	7.04	

WELLNAME	API	METER	RECDATE	AVG LINE P	AVG TUBING P	AVG CASING	GASVOL
MUDGE LS 006-MV	300451084300	70523	5/1/98	278	59.3	95.5	189
MUDGE LS 006-MV	300451084300	70523	5/2/98	280.1	61.1	90.8	254
MUDGE LS 006-MV	300451084300	70523	5/3/98	264.6	76	97.2	191
MUDGE LS 006-MV	300451084300	70523	5/4/98	282.6	65	90.2	279
MUDGE LS 006-MV	300451084300	70523	5/5/98	284.9	63.5	88.5	269
MUDGE LS 006-MV	300451084300	70523	5/6/98	266.7	61.5	87.4	270
MUDGE LS 006-MV	300451084300	70523	5/7/98	263.5	60.9	86.5	267
MUDGE LS 006-MV	300451084300	70523	5/8/98	269.5	60.6	86.6	261
MUDGE LS 006-MV	300451084300	70523	5/9/98	277.3	58.5	87.5	244
MUDGE LS 006-MV	300451084300	70523	5/10/98	268.4	64.3	89.1	242
MUDGE LS 006-MV	300451084300	70523	5/11/98	264.8	62.3	87.3	259
MUDGE LS 006-MV	300451084300	70523	5/12/98	261.3	63.9	85.7	262
MUDGE LS 006-MV	300451084300	70523	5/13/98	260	61.4	85.8	241
MUDGE LS 006-MV	300451084300	70523	5/14/98	264.3	62.2	85.3	244
MUDGE LS 006-MV	300451084300	70523	5/15/98	247.8	60.5	85.4	248
MUDGE LS 006-MV	300451084300	70523	5/16/98	247.7	60.1	85.3	243
MUDGE LS 006-MV	300451084300	70523	5/17/98	274.5	62.7	85.1	235
MUDGE LS 006-MV	300451084300	70523	5/18/98	286.9	64.8	85.8	237
MUDGE LS 006-MV	300451084300	70523	5/19/98	279.7	64.2	85.1	239
MUDGE LS 006-MV	300451084300	70523	5/20/98	291.2	63.4	86.3	241
MUDGE LS 006-MV	300451084300	70523	5/21/98	294	63.2	89.1	186
MUDGE LS 006-MV	300451084300	70523	5/22/98	284.5	103.5	108.9	0
MUDGE LS 006-MV	300451084300	70523	5/23/98	304	119.4	120.2	0
MUDGE LS 006-MV	300451084300	70523	5/24/98	292.2	127	127.7	0
MUDGE LS 006-MV	300451084300	70523	5/25/98	293.4	132.9	133.4	0
MUDGE LS 006-MV	300451084300	70523	5/26/98	298.6	118.9	131.3	174
MUDGE LS 006-MV	300451084300	70523	5/27/98	305.1	85.5	109	361
MUDGE LS 006-MV	300451084300	70523	5/28/98	306	76.3	102.5	310
MUDGE LS 006-MV	300451084300	70523	5/29/98	294.2	74.3	99.2	306
MUDGE LS 006-MV	300451084300	70523	5/30/98	291.5	73.1	95.9	301
MUDGE LS 006-MV	300451084300	70523	5/31/98	278.8	69.5	93.8	290
MUDGE LS 006-MV	300451084300	70523	6/1/98	276.7	68	92.8	282
MUDGE LS 006-MV	300451084300	70523	6/2/98	292.7	68.9	92.3	275
MUDGE LS 006-MV	300451084300	70523	6/3/98	288.5	65.3	92.2	259
MUDGE LS 006-MV	300451084300	70523	6/4/98	292	66.7	92.5	266
MUDGE LS 006-MV	300451084300	70523	6/5/98	298.7	68	91	269
MUDGE LS 006-MV	300451084300	70523	6/6/98	291.4	67.2	90.1	267
MUDGE LS 006-MV	300451084300	70523	6/7/98	284.1	67	89.5	269
MUDGE LS 006-MV	300451084300	70523	6/8/98	282.8	65.8	89	266
MUDGE LS 006-MV	300451084300	70523	6/9/98	296.7	65.9	89.1	258
MUDGE LS 006-MV	300451084300	70523	6/10/98	306.8	66.3	89.6	254
MUDGE LS 006-MV	300451084300	70523	6/11/98	300.5	66.4	89	258
MUDGE LS 006-MV	300451084300	70523	6/12/98	292.3	64.7	89.4	253
MUDGE LS 006-MV	300451084300	70523	6/13/98	297.5	64.6	89.2	250
MUDGE LS 006-MV	300451084300	70523	6/14/98	291.6	65.1	88.9	256
MUDGE LS 006-MV	300451084300	70523	6/15/98	298.1	64.4	89.5	249
MUDGE LS 006-MV	300451084300	70523	6/16/98	311.2	66.7	89.1	251
MUDGE LS 006-MV	300451084300	70523	6/17/98	322.2	67.2	89.7	248
MUDGE LS 006-MV	300451084300	70523	6/18/98	302.2	65.7	89	254
MUDGE LS 006-MV	300451084300	70523	6/19/98	287	64.1	88.6	253
MUDGE LS 006-MV	300451084300	70523	6/20/98	294.1	64.1	89.5	247
MUDGE LS 006-MV	300451084300	70523	6/21/98	317	68.6	88.5	256
MUDGE LS 006-MV	300451084300	70523	6/22/98	306.4	62.2	89.8	229
MUDGE LS 006-MV	300451084300	70523	6/23/98	318.8	68.9	89.7	256
MUDGE LS 006-MV	300451084300	70523	6/24/98	304.1	67	89	255
MUDGE LS 006-MV	300451084300	70523	6/25/98	308.9	66.5	88.6	244
MUDGE LS 006-MV	300451084300	70523	6/26/98	301.4	63.8	90	221
MUDGE LS 006-MV	300451084300	70523	6/27/98	307.6	68.1	88.5	239
MUDGE LS 006-MV	300451084300	70523	6/28/98	296	63.9	89.5	223
MUDGE LS 006-MV	300451084300	70523	6/29/98	301.2	66.7	89.8	232
MUDGE LS 006-MV	300451084300	70523	6/30/98	278.6	66.2	88.2	248
MUDGE LS 006-MV	300451084300	70523	7/1/98	291.5	64.1	88.9	226
MUDGE LS 006-MV	300451084300	70523	7/2/98	285.5	63.8	89.2	228
MUDGE LS 006-MV	300451084300	70523	7/3/98	278.1	64.9	88.7	238

WELLNAME	API	METER	RECDATE	AVG LINE	PAVG TUBING P	PAVG CASING	GASVOL
MUDGE LS 006-MV	300451084300	70523	7/4/98	277.8	62.4	89.2	227
MUDGE LS 006-MV	300451084300	70523	7/5/98	283.2	61.5	89.7	217
MUDGE LS 006-MV	300451084300	70523	7/6/98	289.7	64.6	89.9	240
MUDGE LS 006-MV	300451084300	70523	7/7/98	283	65.1	89.7	250
MUDGE LS 006-MV	300451084300	70523	7/8/98	293.5	65.6	88.5	258
MUDGE LS 006-MV	300451084300	70523	7/9/98	287.2	62.5	89	246
MUDGE LS 006-MV	300451084300	70523	7/10/98	287.5	66.4	88.3	265
MUDGE LS 006-MV	300451084300	70523	7/11/98	294.4	60.4	89.3	227
MUDGE LS 006-MV	300451084300	70523	7/12/98	288.2	71.4	95.7	199
MUDGE LS 006-MV	300451084300	70523	7/13/98	283.3	97.8	103.1	72
MUDGE LS 006-MV	300451084300	70523	7/14/98	327.6	120.3	118.8	0
MUDGE LS 006-MV	300451084300	70523	7/15/98	288.9	128.2	126.9	0
MUDGE LS 006-MV	300451084300	70523	7/16/98	319.7	104.4	118.1	277
MUDGE LS 006-MV	300451084300	70523	7/17/98	320	83.6	101.6	335
MUDGE LS 006-MV	300451084300	70523	7/18/98	311.6	78.8	96.6	312
MUDGE LS 006-MV	300451084300	70523	7/19/98	308.1	76.1	94.1	299
MUDGE LS 006-MV	300451084300	70523	7/20/98	310.3	73.9	92.6	286
MUDGE LS 006-MV	300451084300	70523	7/21/98	314.9	71.8	92.6	271
MUDGE LS 006-MV	300451084300	70523	7/22/98	325.4	72.7	92.1	269
MUDGE LS 006-MV	300451084300	70523	7/23/98	320.9	82.3	98	148
MUDGE LS 006-MV	300451084300	70523	7/24/98	320.7	97	108.7	177
MUDGE LS 006-MV	300451084300	70523	7/25/98	314.7	72.3	97.4	279
MUDGE LS 006-MV	300451084300	70523	7/26/98	289.7	67.8	95.6	273
MUDGE LS 006-MV	300451084300	70523	7/27/98	266.5	64	94.2	266
MUDGE LS 006-MV	300451084300	70523	7/28/98	292.2	64.9	93.9	254
MUDGE LS 006-MV	300451084300	70523	7/29/98	271.9	67.4	91.9	281
MUDGE LS 006-MV	300451084300	70523	7/30/98	268	64.7	91.6	268
MUDGE LS 006-MV	300451084300	70523	7/31/98	261.1	67.5	88.5	291
MUDGE LS 006-MV	300451084300	70523	8/1/98	253.7	64.5	87.7	279
MUDGE LS 006-MV	300451084300	70523	8/2/98	279.6	66.6	87.5	271
MUDGE LS 006-MV	300451084300	70523	8/3/98	274.7	75.1	92.2	172
MUDGE LS 006-MV	300451084300	70523	8/4/98	208.7	108.4	112.6	0
MUDGE LS 006-MV	300451084300	70523	8/5/98	239.2	96.9	110.9	242
MUDGE LS 006-MV	300451084300	70523	8/6/98	258.5	86.7	104.4	228
MUDGE LS 006-MV	300451084300	70523	8/7/98	222.4	76.1	99	274
MUDGE LS 006-MV	300451084300	70523	8/8/98	222.2	77.1	98.2	193
MUDGE LS 006-MV	300451084300	70523	8/9/98	219.2	89.3	107	226
MUDGE LS 006-MV	300451084300	70523	8/10/98	236.5	68.3	92.8	329
MUDGE LS 006-MV	300451084300	70523	8/11/98	249.4	64.7	90.6	298
MUDGE LS 006-MV	300451084300	70523	8/12/98	222.3	81.5	99.5	192
MUDGE LS 006-MV	300451084300	70523	8/13/98	260.7	66.3	91.5	295
MUDGE LS 006-MV	300451084300	70523	8/14/98	258.1	65.4	89.3	294
MUDGE LS 006-MV	300451084300	70523	8/15/98	222.5	82.9	98.7	176
MUDGE LS 006-MV	300451084300	70523	8/16/98	214.2	62.3	90.1	304
MUDGE LS 006-MV	300451084300	70523	8/17/98	214.8	59.9	87.9	288
MUDGE LS 006-MV	300451084300	70523	8/18/98	237.8	61.4	86.9	279
MUDGE LS 006-MV	300451084300	70523	8/19/98	311.2	77.7	93	157
MUDGE LS 006-MV	300451084300	70523	8/20/98	311.9	92.8	105.6	144
MUDGE LS 006-MV	300451084300	70523	8/21/98	309.5	97.4	109.5	110
MUDGE LS 006-MV	300451084300	70523	8/22/98	303.3	89	107.8	225
MUDGE LS 006-MV	300451084300	70523	8/23/98	271.3	68.4	95.7	307
MUDGE LS 006-MV	300451084300	70523	8/24/98	257.3	65.7	91.9	300
MUDGE LS 006-MV	300451084300	70523	8/25/98	252.1	88.2	101.6	103
MUDGE LS 006-MV	300451084300	70523	8/26/98	243.8	91.4	108.1	213
MUDGE LS 006-MV	300451084300	70523	8/27/98	233	67.1	93.6	324
MUDGE LS 006-MV	300451084300	70523	8/28/98	255.4	63.7	91.3	285
MUDGE LS 006-MV	300451084300	70523	8/29/98	283.8	66.7	89.9	284
MUDGE LS 006-MV	300451084300	70523	8/30/98	277.4	64	89.2	272
MUDGE LS 006-MV	300451084300	70523	8/31/98	242.6	65.7	89.1	246
MUDGE LS 006-MV	300451084300	70523	9/1/98	204.1	75.9	97.2	219
MUDGE LS 006-MV	300451084300	70523	9/2/98	198.6	62.1	88.2	303
MUDGE LS 006-MV	300451084300	70523	9/3/98	194.5	81	99.1	60
MUDGE LS 006-MV	300451084300	70523	9/4/98	195.6	93.1	109.3	119
MUDGE LS 006-MV	300451084300	70523	9/5/98	194.6	88.3	106.5	202

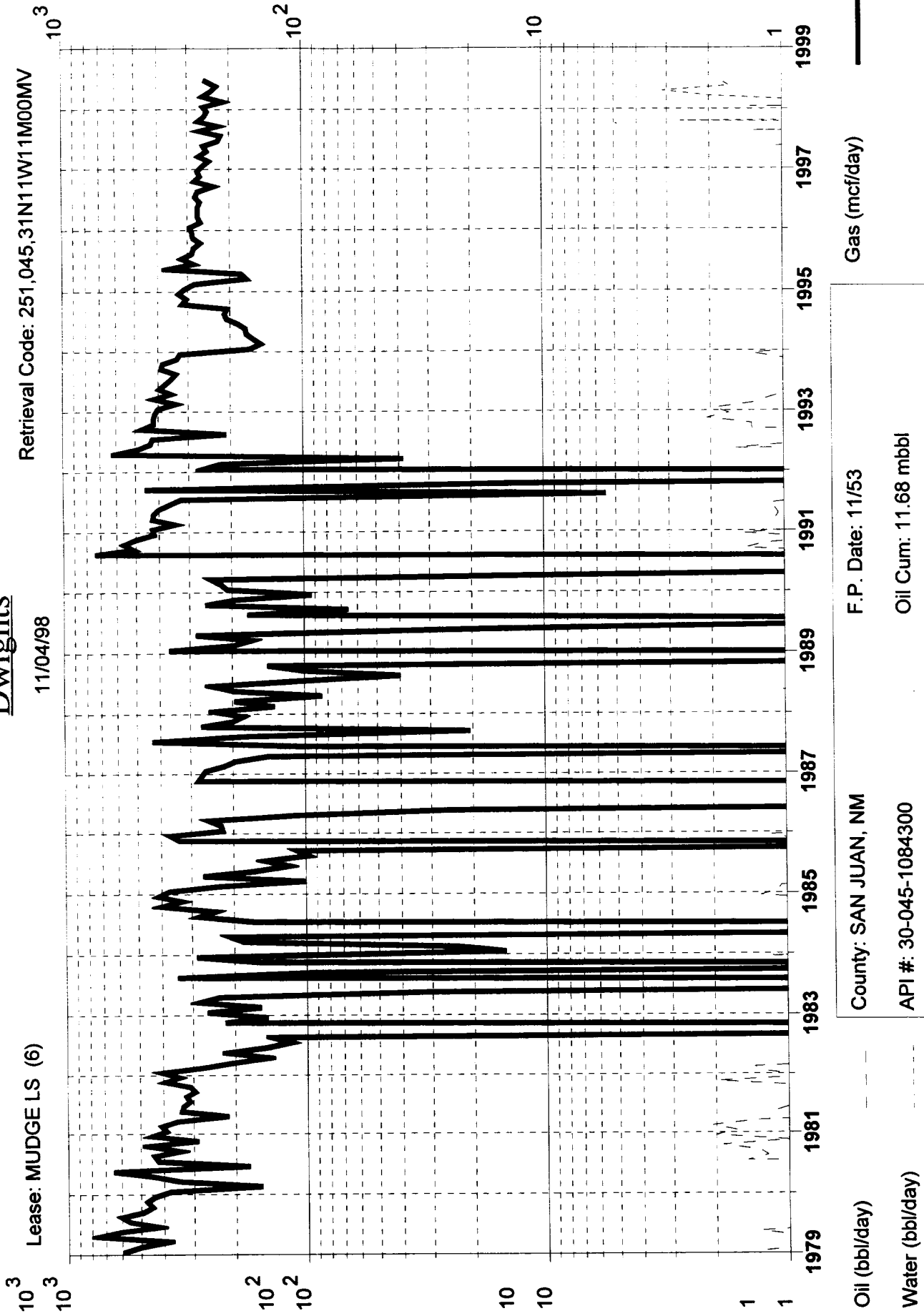
WELLNAME	API	METER	RECDATE	AVG LINE	PAVG TUBING P	PAVG CASING	GASVOL
MUDGE LS 006-MV	300451084300	70523	9/6/98	205.2	90.6	106.2	236
MUDGE LS 006-MV	300451084300	70523	9/7/98	192.9	70	96.9	239
MUDGE LS 006-MV	300451084300	70523	9/8/98	195.9	87.9	105	225
MUDGE LS 006-MV	300451084300	70523	9/9/98	197.6	64.3	94.6	302
MUDGE LS 006-MV	300451084300	70523	9/10/98	196.2	63	91.6	297
MUDGE LS 006-MV	300451084300	70523	9/11/98	192.6	61.4	90.1	290
MUDGE LS 006-MV	300451084300	70523	9/12/98	188.1	59.7	88.8	285
MUDGE LS 006-MV	300451084300	70523	9/13/98	184.8	79.5	95.7	141
MUDGE LS 006-MV	300451084300	70523	9/14/98	184.6	86.1	104.3	217
MUDGE LS 006-MV	300451084300	70523	9/15/98	184	64.2	90.8	320
MUDGE LS 006-MV	300451084300	70523	9/16/98	192.8	61	88.6	292
MUDGE LS 006-MV	300451084300	70523	9/17/98	208.3	62.1	87.7	285
MUDGE LS 006-MV	300451084300	70523	9/18/98	200.2	60.2	86.8	281
MUDGE LS 006-MV	300451084300	70523	9/19/98	200.6	59.4	86.2	277
MUDGE LS 006-MV	300451084300	70523	9/20/98	196.2	58.6	85.5	277
MUDGE LS 006-MV	300451084300	70523	9/21/98	198.1	57.6	85.5	270
MUDGE LS 006-MV	300451084300	70523	9/22/98	206.3	58.4	85.3	268
MUDGE LS 006-MV	300451084300	70523	9/23/98	204.2	62.1	86.7	252
MUDGE LS 006-MV	300451084300	70523	9/24/98	210.6	61.4	84.5	278
MUDGE LS 006-MV	300451084300	70523	9/25/98	207.2	60.6	83.5	277
MUDGE LS 006-MV	300451084300	70523	9/26/98	199.2	59.5	82.6	278
MUDGE LS 006-MV	300451084300	70523	9/27/98	216.6	59.4	83.1	261
MUDGE LS 006-MV	300451084300	70523	9/28/98	203.1	70.1	86	198
MUDGE LS 006-MV	300451084300	70523	9/29/98	196.4	86.6	97.9	182
MUDGE LS 006-MV	300451084300	70523	9/30/98	193.7	62.8	85.3	307
MUDGE LS 006-MV	300451084300	70523	10/1/98	187.7	63.1	88.2	194
MUDGE LS 006-MV	300451084300	70523	10/2/98	183.1	79.8	98.8	197
MUDGE LS 006-MV	300451084300	70523	10/3/98	178.6	69.8	93.8	233
MUDGE LS 006-MV	300451084300	70523	10/4/98	177.8	59.4	86.8	303
MUDGE LS 006-MV	300451084300	70523	10/5/98	176.1	72.6	94.6	135
MUDGE LS 006-MV	300451084300	70523	10/6/98	178	113.5	113.9	0
MUDGE LS 006-MV	300451084300	70523	10/7/98	182.5	93.6	110.4	246
MUDGE LS 006-MV	300451084300	70523	10/8/98	180	65	92.9	336
MUDGE LS 006-MV	300451084300	70523	10/9/98	182.2	60.2	89.9	303
MUDGE LS 006-MV	300451084300	70523	10/10/98	183.4	59	87.5	296
MUDGE LS 006-MV	300451084300	70523	10/11/98	179.5	56.6	86.2	286
MUDGE LS 006-MV	300451084300	70523	10/12/98	180.3	56.4	85.3	282
MUDGE LS 006-MV	300451084300	70523	10/13/98	181.3	56.1	84.6	279
MUDGE LS 006-MV	300451084300	70523	10/14/98	181.6	55.5	84.3	275
MUDGE LS 006-MV	300451084300	70523	10/15/98	183.3	62.6	91.9	133
MUDGE LS 006-MV	300451084300	70523	10/16/98	180	74.7	100	211
MUDGE LS 006-MV	300451084300	70523	10/17/98	179.5	56.6	89.3	288
MUDGE LS 006-MV	300451084300	70523	10/18/98	178.1	55.6	87	282
MUDGE LS 006-MV	300451084300	70523	10/19/98	181.6	57.1	85	285
MUDGE LS 006-MV	300451084300	70523	10/20/98	181.8	56.1	83.5	281
MUDGE LS 006-MV	300451084300	70523	10/21/98	180.7	55.5	82.5	281
MUDGE LS 006-MV	300451084300	70523	10/22/98	180.1	55.1	81.8	278
MUDGE LS 006-MV	300451084300	70523	10/23/98	182.8	55	81.6	271
MUDGE LS 006-MV	300451084300	70523	10/24/98	183.3	53.8	81.8	264
MUDGE LS 006-MV	300451084300	70523	10/25/98	182.8	59.6	83.7	215
MUDGE LS 006-MV	300451084300	70523	10/26/98	180	71.9	93.6	201
MUDGE LS 006-MV	300451084300	70523	10/27/98	184.4	58.9	83.9	294
MUDGE LS 006-MV	300451084300	70523	10/28/98	181.3	56.4	81	285
MUDGE LS 006-MV	300451084300	70523	10/29/98	180.7	54.9	80.8	271
MUDGE LS 006-MV	300451084300	70523	10/30/98	181.9	56.2	80.6	273
MUDGE LS 006-MV	300451084300	70523	10/31/98	180	55.4	79.6	274
MUDGE LS 006-MV	300451084300	70523	11/1/98	179.1	54.7	79.4	270

Dwights

11/04/98

Lease: MUDGE LS (6)

Retrieval Code: 251,045.31N11W11M00MV



F.P. Date: 11/53

County: SAN JUAN, NM

Oil Cum: 11.68 mbbl

API #: 30-045-1084300

Gas Cum: 7129 mmcf

Reservoir: MESAVERDE

Location: 11M 31N 11W

Operator: AMOCO PRODUCTION CO

WELLNAME	API	METER	RECDATE	AVG LINE P	AVG TUBING P	AVG CASING	GASVOL
NEIL A 002-MV	300451075700	70535	1/1/98	0	341.3	343.8	0
NEIL A 002-MV	300451075700	70535	1/2/98	0	341.7	344.1	0
NEIL A 002-MV	300451075700	70535	1/3/98	0	342.3	344.3	0
NEIL A 002-MV	300451075700	70535	1/4/98	0	342.5	344.8	0
NEIL A 002-MV	300451075700	70535	1/5/98	0	342.6	345.2	0
NEIL A 002-MV	300451075700	70535	1/6/98	0	342.3	345.3	0
NEIL A 002-MV	300451075700	70535	1/7/98	0	342.6	345.5	0
NEIL A 002-MV	300451075700	70535	1/8/98	245.4	343.1	346	0
NEIL A 002-MV	300451075700	70535	1/9/98	245.4	343.7	346.4	0
NEIL A 002-MV	300451075700	70535	1/10/98	245.4	344.1	346.5	0
NEIL A 002-MV	300451075700	70535	1/11/98	245.4	344.4	346.8	0
NEIL A 002-MV	300451075700	70535	1/12/98	245.4	344.9	347.3	0
NEIL A 002-MV	300451075700	70535	1/13/98	245.4	344.9	347.6	0
NEIL A 002-MV	300451075700	70535	1/14/98	245.4	345.4	347.8	0
NEIL A 002-MV	300451075700	70535	1/15/98	245.4	345.2	348	0
NEIL A 002-MV	300451075700	70535	1/16/98	245.4	346.1	348.4	0
NEIL A 002-MV	300451075700	70535	1/17/98	245.4	346	348.8	0
NEIL A 002-MV	300451075700	70535	1/18/98	245.4	346.5	349.1	0
NEIL A 002-MV	300451075700	70535	1/19/98	23	347	349.3	0
NEIL A 002-MV	300451075700	70535	1/20/98	329.6	340.1	344	45
NEIL A 002-MV	300451075700	70535	1/21/98	335.8	334.2	338.2	48
NEIL A 002-MV	300451075700	70535	1/22/98	327.3	329.8	335	64
NEIL A 002-MV	300451075700	70535	1/23/98	332.5	333.1	334.8	11
NEIL A 002-MV	300451075700	70535	1/24/98	321.9	332.3	335.4	5
NEIL A 002-MV	300451075700	70535	1/25/98	257.5	301.5	316.9	189
NEIL A 002-MV	300451075700	70535	1/26/98	252.3	251.9	277.6	220
NEIL A 002-MV	300451075700	70535	1/27/98	256.7	257.3	272.4	187
NEIL A 002-MV	300451075700	70535	1/28/98	250.7	251.1	261.3	154
NEIL A 002-MV	300451075700	70535	1/29/98	255.5	255.4	260.6	117
NEIL A 002-MV	300451075700	70535	1/30/98	262.3	261.8	266.6	99
NEIL A 002-MV	300451075700	70535	1/31/98	258.8	257.5	260.3	98
NEIL A 002-MV	300451075700	70535	2/1/98	256.7	255.1	258.4	87
NEIL A 002-MV	300451075700	70535	2/2/98	256.3	255.4	260.7	89
NEIL A 002-MV	300451075700	70535	2/3/98	255	254.2	258.5	86
NEIL A 002-MV	300451075700	70535	2/4/98	258.5	256.6	261.6	75
NEIL A 002-MV	300451075700	70535	2/5/98	258.7	256.4	261.3	105
NEIL A 002-MV	300451075700	70535	2/6/98	261.1	257.3	261.3	201
NEIL A 002-MV	300451075700	70535	2/7/98	263.7	266	267.3	384
NEIL A 002-MV	300451075700	70535	2/8/98	261.1	263.5	266.7	376
NEIL A 002-MV	300451075700	70535	2/9/98	255.7	268.2	270.9	218
NEIL A 002-MV	300451075700	70535	2/10/98	262.3	296.6	295.8	73
NEIL A 002-MV	300451075700	70535	2/11/98	261.6	299.2	300.4	57
NEIL A 002-MV	300451075700	70535	2/12/98	283.8	300.8	302.3	45
NEIL A 002-MV	300451075700	70535	2/13/98	273.9	288.6	292.8	65
NEIL A 002-MV	300451075700	70535	2/14/98	274.7	274.4	279.1	119
NEIL A 002-MV	300451075700	70535	2/15/98	269.3	269	274.1	127
NEIL A 002-MV	300451075700	70535	2/16/98	271	269.1	274	196
NEIL A 002-MV	300451075700	70535	2/17/98	279.2	280.6	285.3	100
NEIL A 002-MV	300451075700	70535	2/18/98	274.8	274.6	279.3	67
NEIL A 002-MV	300451075700	70535	2/19/98	269.9	269.3	274.3	83
NEIL A 002-MV	300451075700	70535	2/20/98	280.8	283.8	288.6	328
NEIL A 002-MV	300451075700	70535	2/21/98	280	282.8	287.7	308
NEIL A 002-MV	300451075700	70535	2/22/98	262.5	261.1	266.2	78
NEIL A 002-MV	300451075700	70535	2/23/98	260.1	258.8	263.8	71
NEIL A 002-MV	300451075700	70535	2/24/98	260.2	255.5	263.4	56
NEIL A 002-MV	300451075700	70535	2/25/98	251.4	266	271.5	43
NEIL A 002-MV	300451075700	70535	2/26/98	251.4	299.4	301.5	0
NEIL A 002-MV	300451075700	70535	2/27/98	258.1	304	306.1	0
NEIL A 002-MV	300451075700	70535	2/28/98	249.4	306.3	308.6	0
NEIL A 002-MV	300451075700	70535	3/1/98	242.7	307.8	310.2	0
NEIL A 002-MV	300451075700	70535	3/2/98	256	301.5	304.5	85
NEIL A 002-MV	300451075700	70535	3/3/98	273.1	278.5	281.4	89
NEIL A 002-MV	300451075700	70535	3/4/98	265.6	271.6	273.2	59
NEIL A 002-MV	300451075700	70535	3/5/98	268.3	273.1	275.6	66

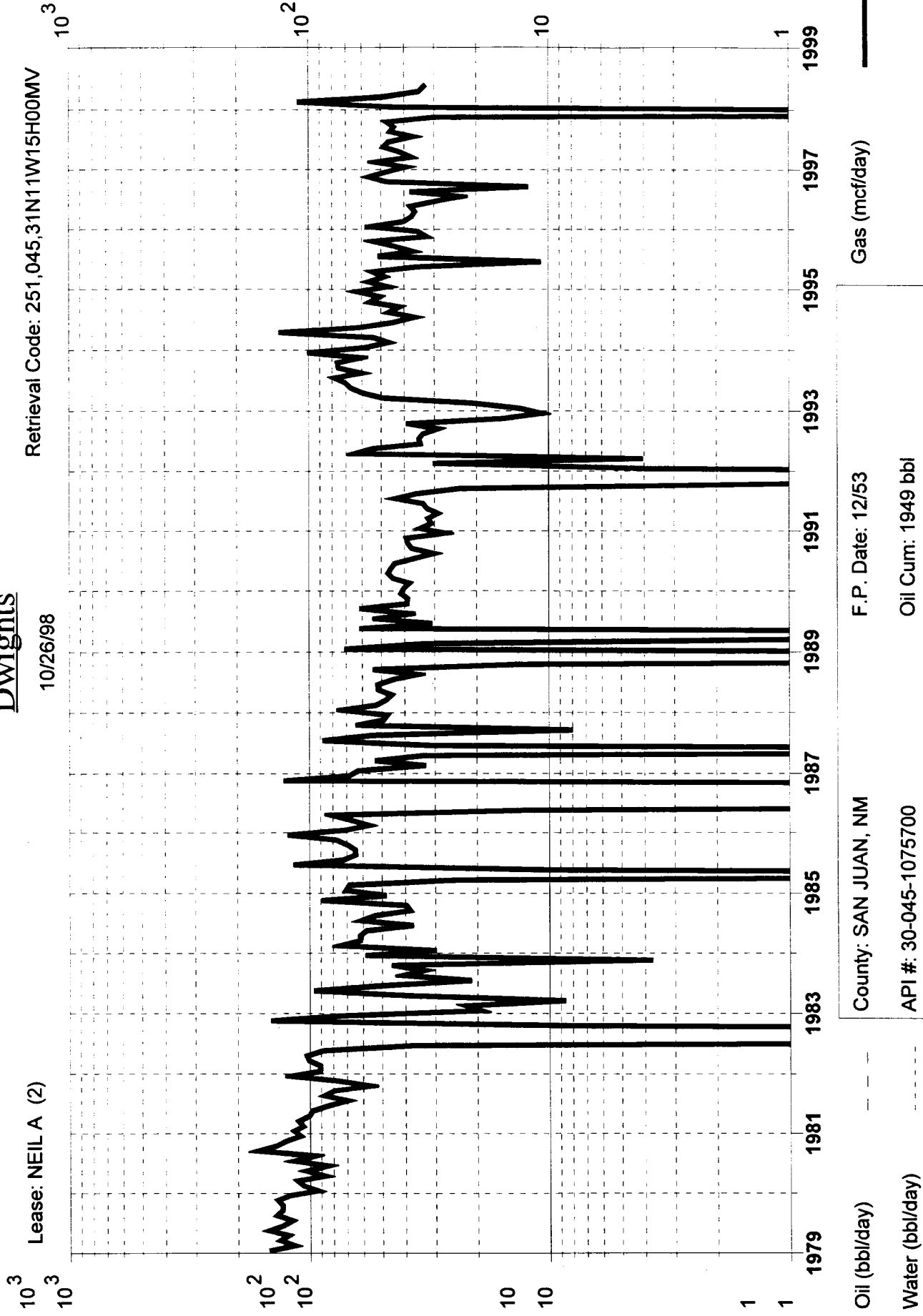
WELLNAME	API	METER	RECDATE	AVG_LINE	PAVG_TUBING	PAVG_CASING	GASVOL
NEIL A 002-MV	300451075700	70535	3/6/98	267.7	272	274.7	53
NEIL A 002-MV	300451075700	70535	3/7/98	264.4	268.2	271.1	66
NEIL A 002-MV	300451075700	70535	3/8/98	256.5	261	263.9	59
NEIL A 002-MV	300451075700	70535	3/9/98	257.1	261.3	264	55
NEIL A 002-MV	300451075700	70535	3/10/98	272	278.1	280.8	53
NEIL A 002-MV	300451075700	70535	3/11/98	266.7	269.7	272.6	29
NEIL A 002-MV	300451075700	70535	3/12/98	278.7	282.3	284.8	37
NEIL A 002-MV	300451075700	70535	3/13/98	285.3	301.1	303.1	29
NEIL A 002-MV	300451075700	70535	3/14/98	288.2	298.2	300.4	51
NEIL A 002-MV	300451075700	70535	3/15/98	286.7	291.1	293.2	53
NEIL A 002-MV	300451075700	70535	3/16/98	297	297.8	301.2	18
NEIL A 002-MV	300451075700	70535	3/17/98	296.3	299.3	303.4	41
NEIL A 002-MV	300451075700	70535	3/18/98	294.1	296.8	295.8	35
NEIL A 002-MV	300451075700	70535	3/19/98	291.1	292.3	294.8	60
NEIL A 002-MV	300451075700	70535	3/20/98	289.2	291.4	294.9	50
NEIL A 002-MV	300451075700	70535	3/21/98	289.1	291	295.2	49
NEIL A 002-MV	300451075700	70535	3/22/98	288.8	290.7	295.1	49
NEIL A 002-MV	300451075700	70535	3/23/98	287.2	289.6	293.6	47
NEIL A 002-MV	300451075700	70535	3/24/98	287	290.9	294.9	51
NEIL A 002-MV	300451075700	70535	3/25/98	280.3	283.6	287.5	49
NEIL A 002-MV	300451075700	70535	3/26/98	266.4	268.2	272.6	40
NEIL A 002-MV	300451075700	70535	3/27/98	268.1	268.7	273.5	51
NEIL A 002-MV	300451075700	70535	3/28/98	261.2	261.9	264.9	51
NEIL A 002-MV	300451075700	70535	3/29/98	254.7	254.4	259.6	48
NEIL A 002-MV	300451075700	70535	3/30/98	256.9	258.9	263.8	40
NEIL A 002-MV	300451075700	70535	3/31/98	270.3	271.6	276.2	43
NEIL A 002-MV	300451075700	70535	4/1/98	254.6	255.9	259.7	43
NEIL A 002-MV	300451075700	70535	4/2/98	256.9	257.2	262.1	43
NEIL A 002-MV	300451075700	70535	4/3/98	262.8	263.8	268.4	42
NEIL A 002-MV	300451075700	70535	4/4/98	267	268	272.1	42
NEIL A 002-MV	300451075700	70535	4/5/98	264	264.9	269	42
NEIL A 002-MV	300451075700	70535	4/6/98	267.2	274.7	278.6	27
NEIL A 002-MV	300451075700	70535	4/7/98	286.7	287.4	292	35
NEIL A 002-MV	300451075700	70535	4/8/98	283.7	286.1	290.7	38
NEIL A 002-MV	300451075700	70535	4/9/98	285.9	286.6	291	34
NEIL A 002-MV	300451075700	70535	4/10/98	286.4	289.8	294	31
NEIL A 002-MV	300451075700	70535	4/11/98	282	283.4	287.2	29
NEIL A 002-MV	300451075700	70535	4/12/98	283.2	283.6	288.3	31
NEIL A 002-MV	300451075700	70535	4/13/98	285.6	285.7	290.3	32
NEIL A 002-MV	300451075700	70535	4/14/98	287.9	291.6	296.5	39
NEIL A 002-MV	300451075700	70535	4/15/98	278.3	279.1	283.9	41
NEIL A 002-MV	300451075700	70535	4/16/98	278.9	279.5	284.5	36
NEIL A 002-MV	300451075700	70535	4/17/98	281.8	282.5	287.2	38
NEIL A 002-MV	300451075700	70535	4/18/98	272.8	273.5	277.9	39
NEIL A 002-MV	300451075700	70535	4/19/98	270.2	271	275.3	37
NEIL A 002-MV	300451075700	70535	4/20/98	274.3	275.4	279.5	32
NEIL A 002-MV	300451075700	70535	4/21/98	290.2	292.1	296	30
NEIL A 002-MV	300451075700	70535	4/22/98	289	290.5	294.5	37
NEIL A 002-MV	300451075700	70535	4/23/98	280	282.3	286	36
NEIL A 002-MV	300451075700	70535	4/24/98	279.2	281.4	285	36
NEIL A 002-MV	300451075700	70535	4/25/98	268.5	270.1	274	41
NEIL A 002-MV	300451075700	70535	4/26/98	256	256.7	258.4	40
NEIL A 002-MV	300451075700	70535	4/27/98	257.4	258.9	263	33
NEIL A 002-MV	300451075700	70535	4/28/98	261.1	263	265.4	38
NEIL A 002-MV	300451075700	70535	4/29/98	262	263.8	267.8	32
NEIL A 002-MV	300451075700	70535	4/30/98	293.5	297.2	300.7	24
NEIL A 002-MV	300451075700	70535	5/1/98	280.2	282.9	286.5	42

Dwights

Lease: NEIL A (2)

10/26/98

Retrieval Code: 251,045.31N11W15H00MV



F.P. Date: 12/53

County: SAN JUAN, NM

API #: 30-045-1075700

Oil (bbl/day)

Oil Cum: 1949 bbl

Water (bbl/day)

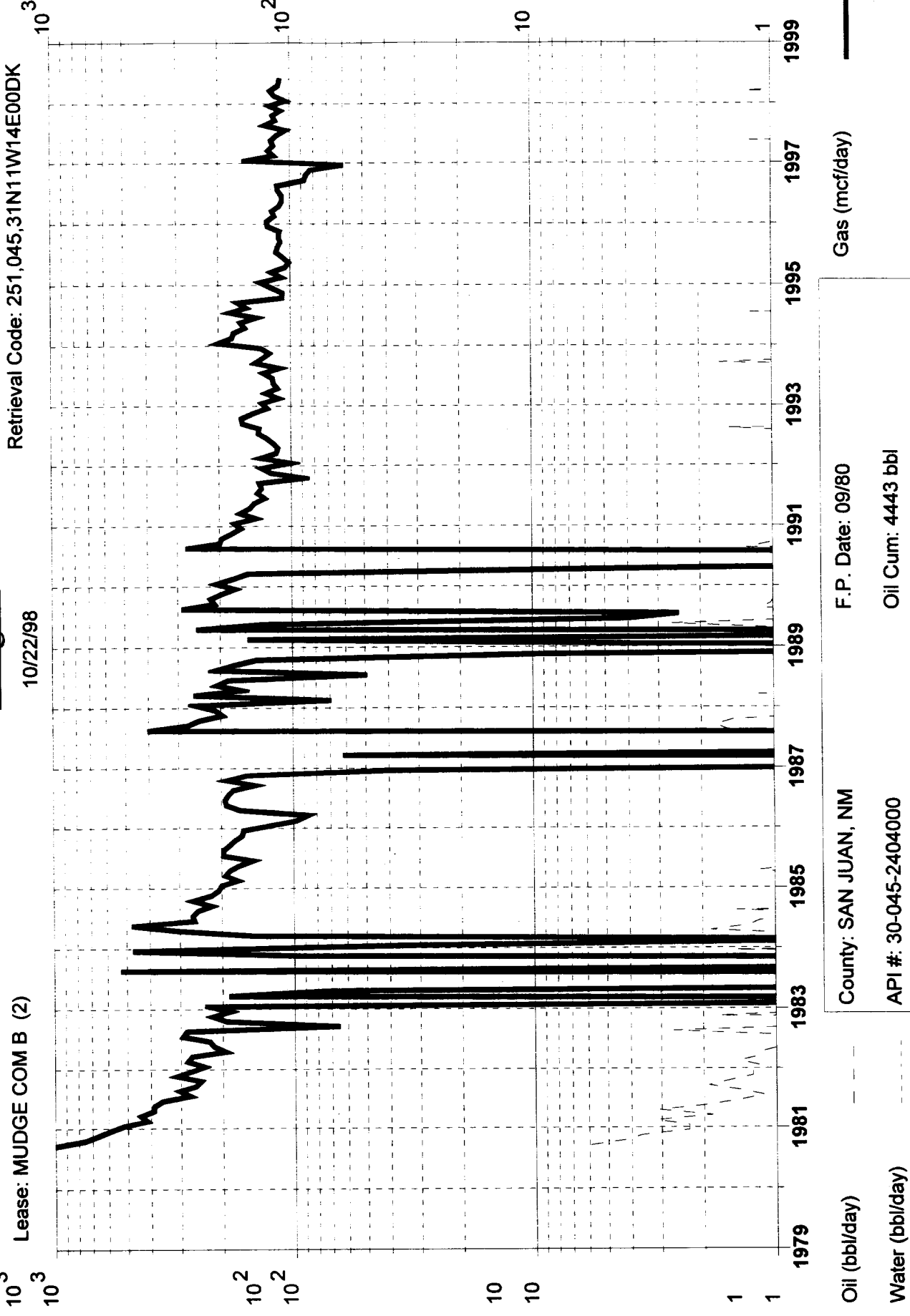
Reservoir: MESAVERDE

Gas Cum: 1898 mmcf

Operator: AMOCO PRODUCTION CO

Location: 15H 31N 11W

Dwights



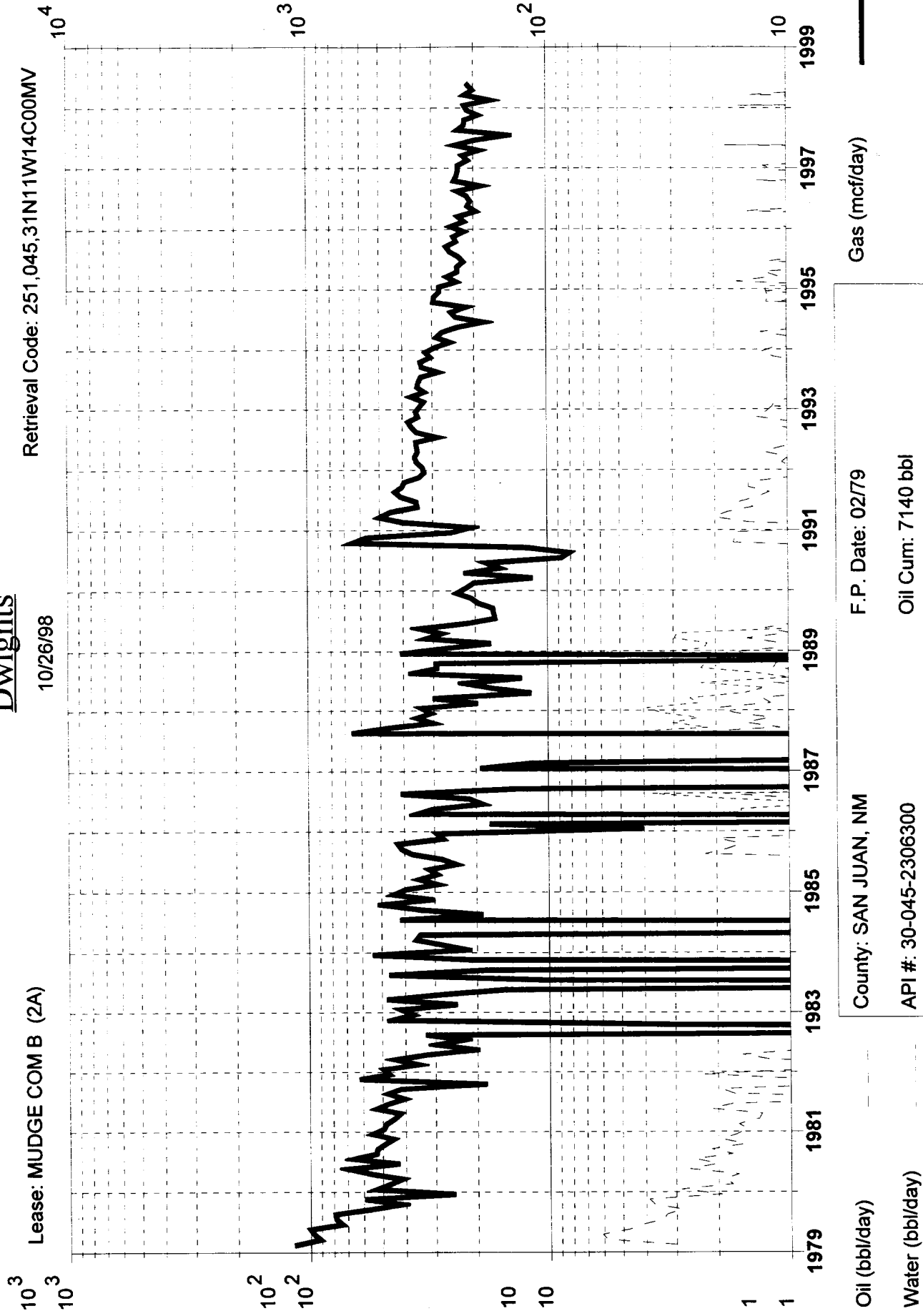
County: SAN JUAN, NM	F.P. Date: 09/80
API #: 30-045-2404000	Oil Cum: 4443 bbl
Reservoir: DAKOTA	Gas Cum: 1075 mmcf
Operator: AMOCO PRODUCTION CO	Location: 14E 31N 11W

Dwights

Lease: MUDGE COM B (2A)

Retrieval Code: 251,045.31N11W14C00MV

10/26/98



F.P. Date: 02/79

County: SAN JUAN, NM

Oil Cum: 7140 bbl

API #: 30-045-2306300

Gas Cum: 2167 mmcf

Reservoir: MESAVERDE

Location: 14C 31N 11W

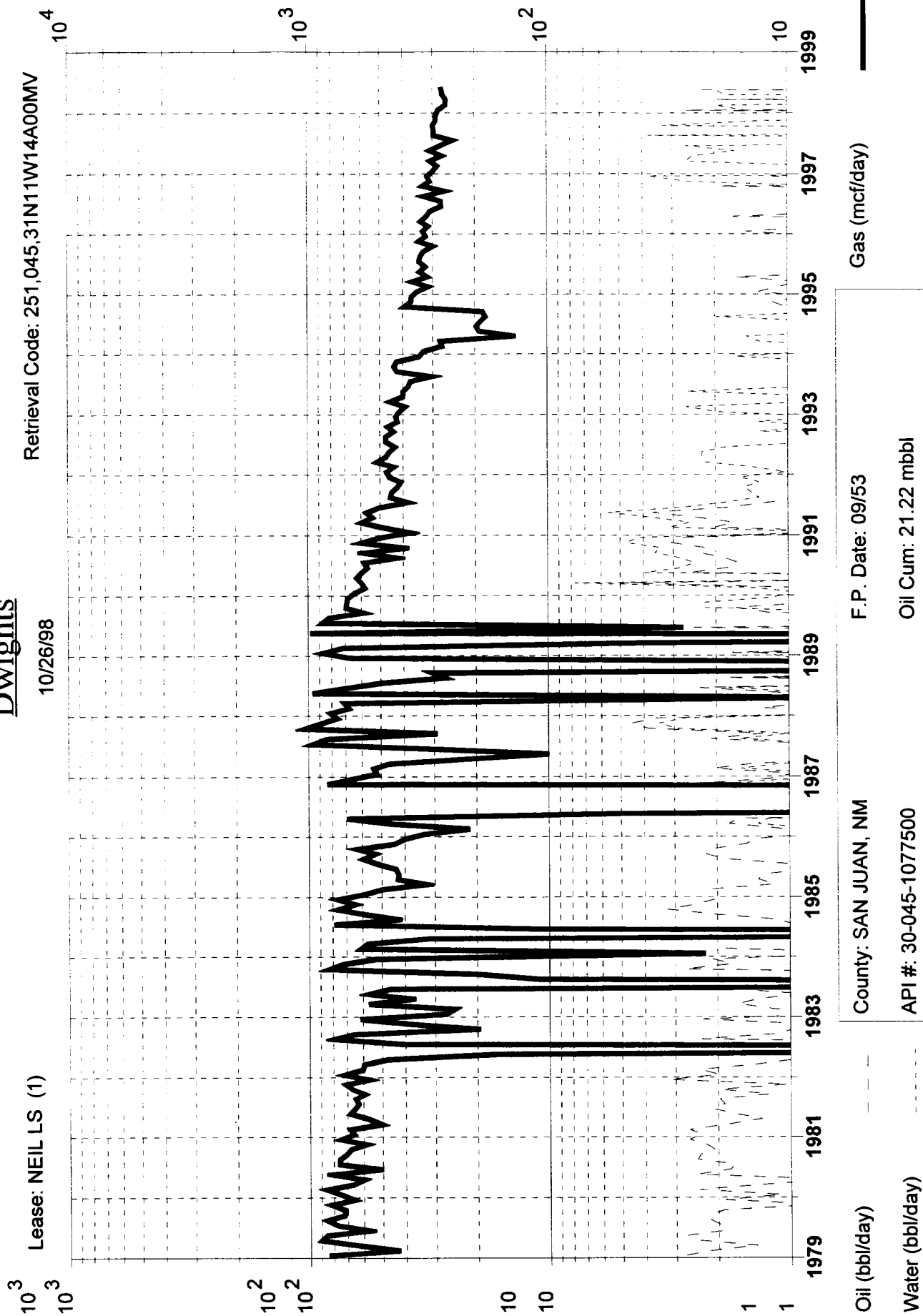
Operator: AMOCO PRODUCTION CO

Dwights

Lease: NEIL LS (1)

Retrieval Code: 251,045,31N11W14A00MV

10/26/98



F.P. Date: 09/53

County: SAN JUAN, NM

Oil Cum: 21.22 mbbl

API #: 30-045-1077500

Gas Cum: 8418 mmcf

Reservoir: MESAVERDE

Location: 14A 31N 11W

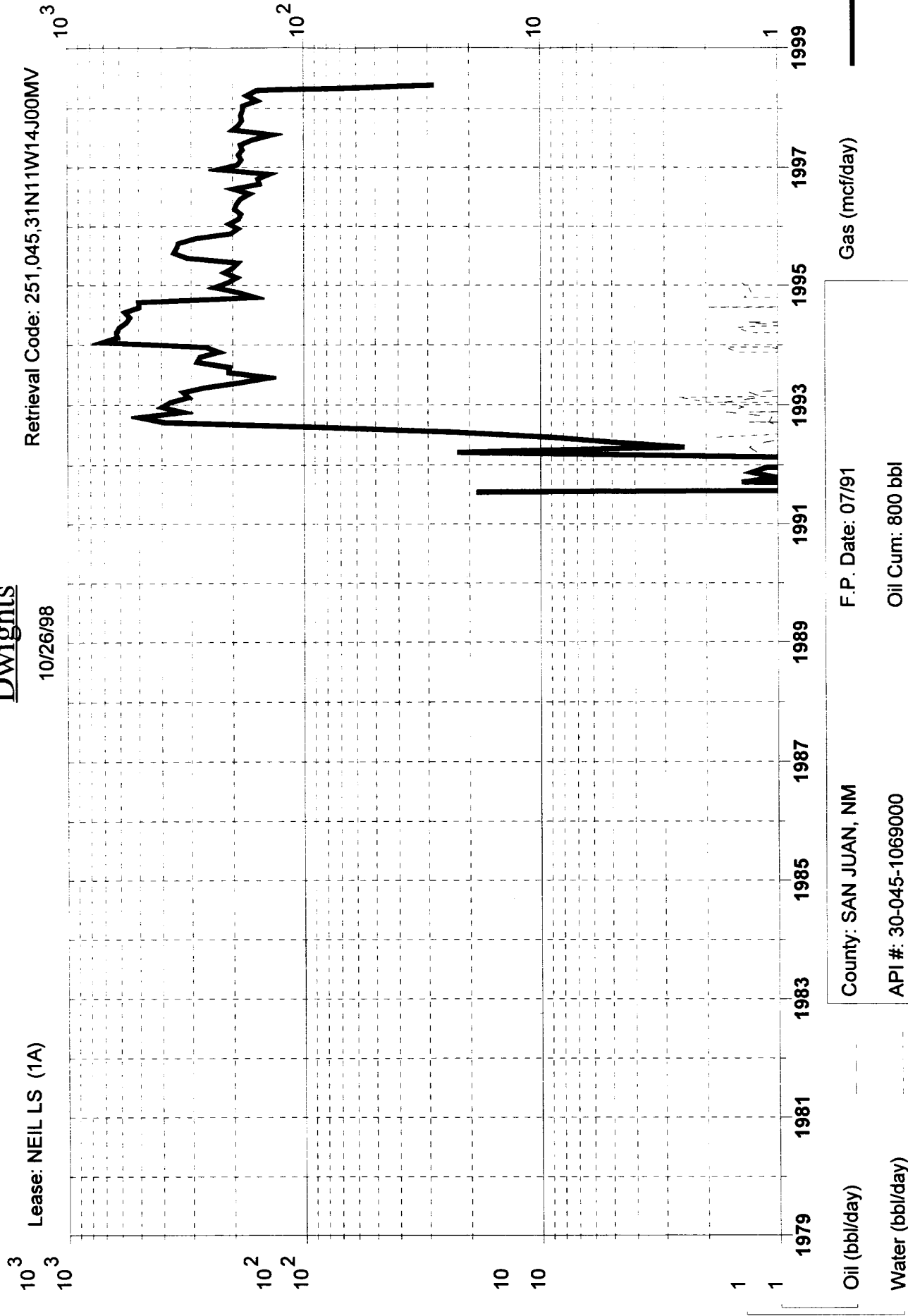
Operator: AMOCO PRODUCTION CO

Dwights

Lease: NEIL LS (1A)

10/26/98

Retrieval Code: 251,045,31N11W14J00MV



F.P. Date: 07/91

County: SAN JUAN, NM

Oil Cum: 800 bbl

API #: 30-045-1069000

Gas Cum: 568.7 mmcf

Reservoir: MESAVERDE

Location: 14J 31N 11W

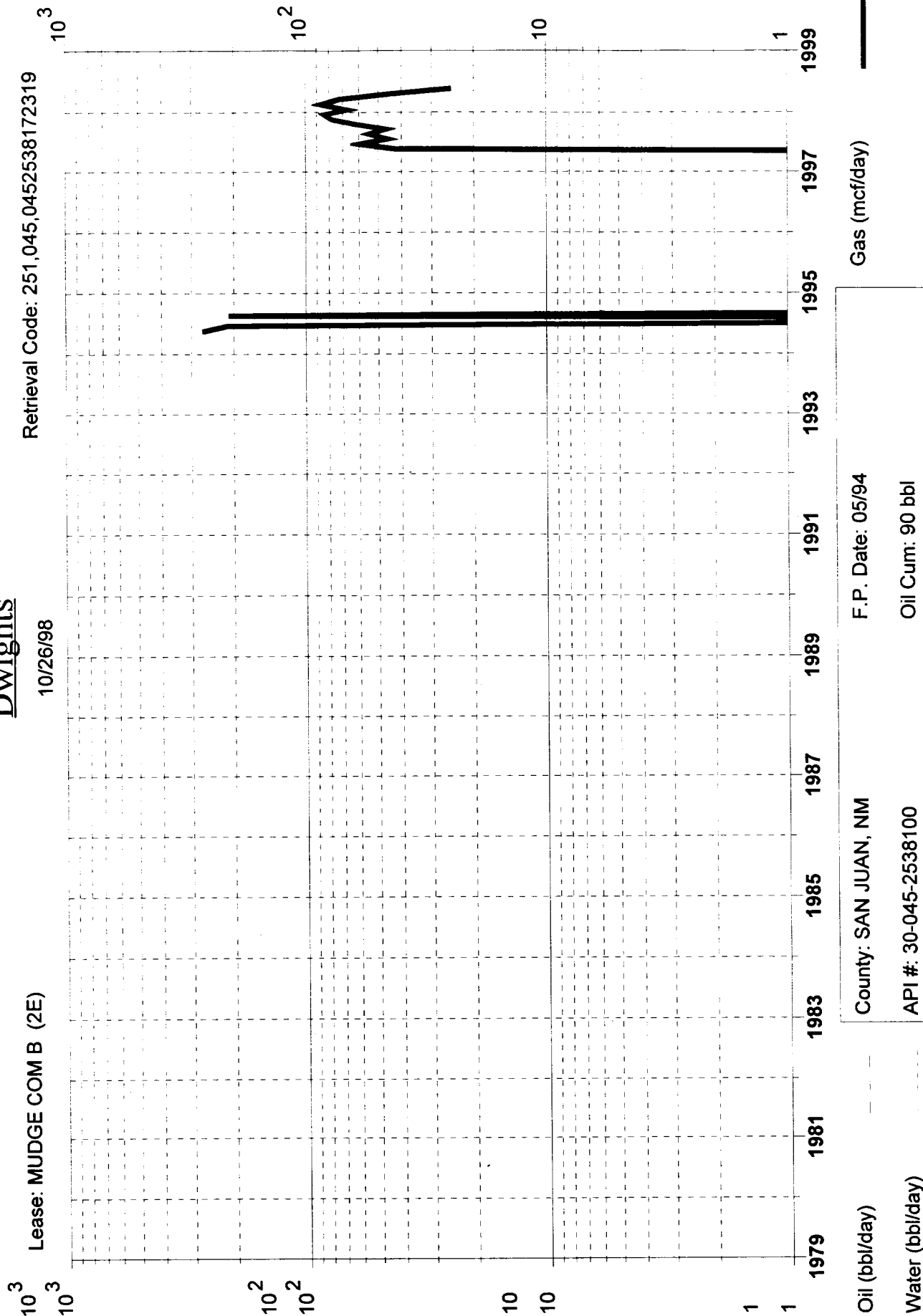
Operator: AMOCO PRODUCTION CO

Dwights

Lease: MUDGE COM B (2E)

Retrieval Code: 251,045,0452538172319

10/26/98



F.P. Date: 05/94

Oil Cum: 90 bbl

Gas Cum: 44.20 mmcf

Location: 14L 31N 11W

County: SAN JUAN, NM

API #: 30-045-2538100

Reservoir: MESAVERDE

Operator: AMOCO PRODUCTION CO