

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

DISTRICT II  
811 South First St. Artesia NM 88210-2835

DISTRICT III  
1000 Rio Brazos Rd. Aztec, NM 87410-1693

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

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

APPROVAL PROCESS:

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☒ YES ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Conoco Inc.

10 Desta Dr. Ste 100W, Midland, Tx. 79705-4500

Operator

Address

Marron WN FED COM

1

Section 27, T-27-N, R-8-W

Rio Arriba

Lease

Well No

Unit Ltr Sec Twp Rge

County

OGRID NO. 005073 Property Code 013684 API NO. 30-045-22518 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	Otero Chacra 82329		Blanco Mesaverde 72319
2. TOP and Bottom of Pay Section (Perforations)	3671-3747'		4924-5146'
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: Gas & Oil - Flowing All Gas Zones: Estimated Current Measured Current Estimated Or Measured Original	a (Current) 475 b (Original) 660	<div>RECEIVED FEB 25 1998 OIL CON. DIV. DIST. 3</div>	a 550 b 1140
6. Oil Gravity ("API) or Gas BT Content	1237		1302
7. Producing or Shut-In?	Producing		Producing
Production Marginal? (yes or no)	Yes		Yes
• If Shut-In give date and oil/gas/water rates of last production Note: For new zones with no production history applicant shall be required to attach production estimates and supporting data.	Date Rates	Date Rates	Date Rates
• If Producing, date and oil/gas/water rates of recent test (within 60 days)	Date Rates	Date Rates	Est 3/98 40 MCFD, .2 BOPD, 0 BOPD
8. Fixed Percentage Allocation Formula - % for each zone	Oil 0 % Gas 9 %	Oil % Gas %	Oil 100 % Gas 91

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

10. Are all working, overriding, and royalty interests identical in all commingled zones? ☒ Yes ☐ No  
If not, have all working, overriding, and royalty interests been notified by certified mail? ☐ Yes ☒ No  
Have all offset operators been given written notice of the proposed downhole commingling? ☒ Yes ☐ No

11. Will cross-flow occur? ☒ Yes ☐ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. ☒ Yes ☐ No (If No, attach explanation)

12. Are all produced fluids from all commingled zones compatible with each others ☒ Yes ☐ No

13. Will the value of production be decreased by commingling? ☐ Yes ☒ No (If Yes, attach explanation)

14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. ☒ Yes ☐ No

15. NMOC Reference Cases for Rule 303(D) Exceptions: ORDER NO(S) \_\_\_\_\_

16. ATTACHMENTS

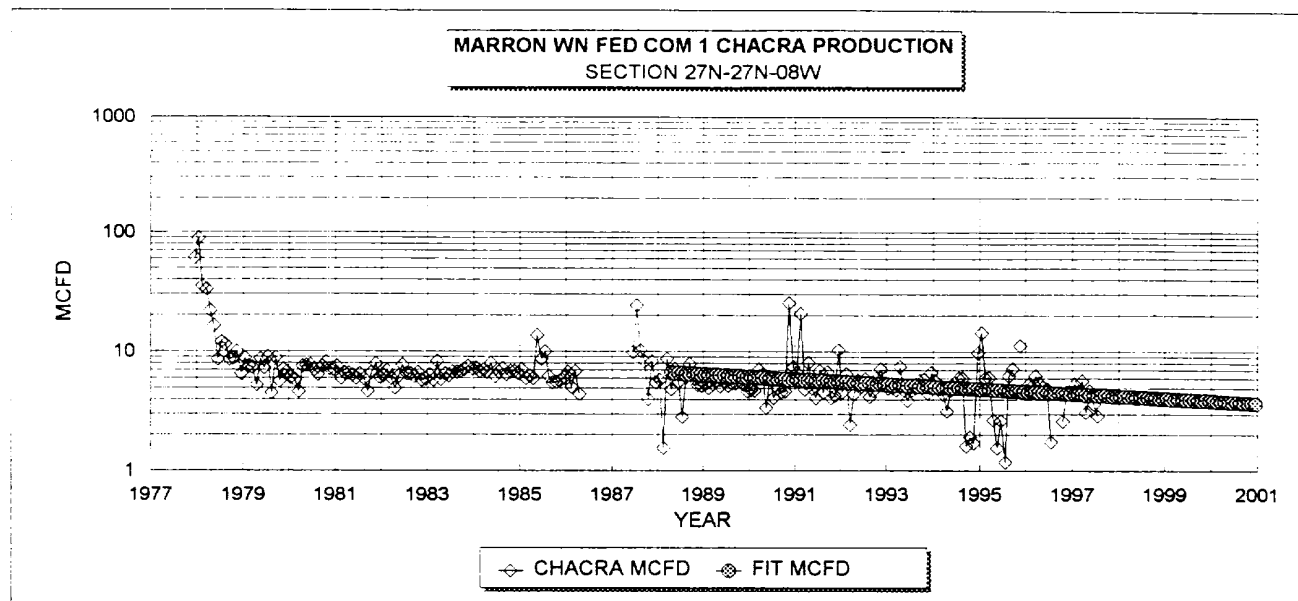
- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production curve for each zone for at least one year. (If not available, attach explanation.)
- For zones with no production history, estimated production rates and supporting data.
- Data to support allocation method or formula.
- Notification list of all offset operators.
- Notification of working, overriding and royalty interests for uncommon interest cases.
- Any additional statements, data, or documents required to support commingling.

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

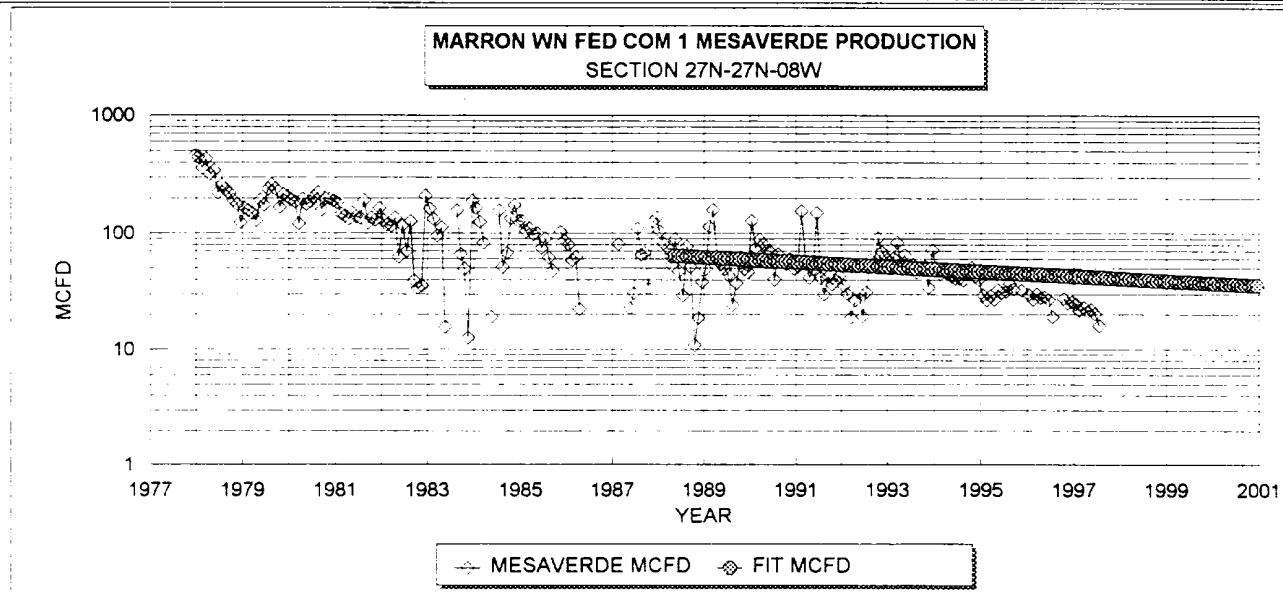
SIGNATURE Kay Maddox TITLE Regulatory Agent DATE February 20, 1998

TYPE OR PRINT NAME Kay Maddox TELEPHONE NO. (915) 686-5798

✓



CHACRA HISTORICAL DATA:		1ST PROD: 12/77	CHACRA	PROJECTED DATA
OIL CUM:	0.00	MBO	3/1/98 Qi:	4.2 MCFD; RISKED ANTICIPATED RATE
GAS CUM:	49.0	MMCF	DECLINE RATE:	4.5% (EXPONENTIAL)
OIL YIELD:	0.0000	BBL/MCF		



MESAVERDE HISTORICAL DATA		1ST PROD: 12/77	MESAVERDE PROJECTED DATA
OIL CUM:	3.0	MBO	3/1/98 Qi: 40 MCFD; RISKED ANTICIPATED RATE
GAS CUM:	630.9	MMCF	DECLINE RATE: 4.5% (EXPONENTIAL)
OIL YIELD:	0.0047	BBL/MCF	

## FIXED COMMINGLE ALLOCATION FACTORS:

	GAS	OIL
MESAVERDE	91%	100.00%
CHACRA	9%	0%

GAS ALLOCATION BASED ON PROJECTED 1996 RATES

OIL ALLOCATION BASED ON WEIGHTED CUM OIL YIELDS

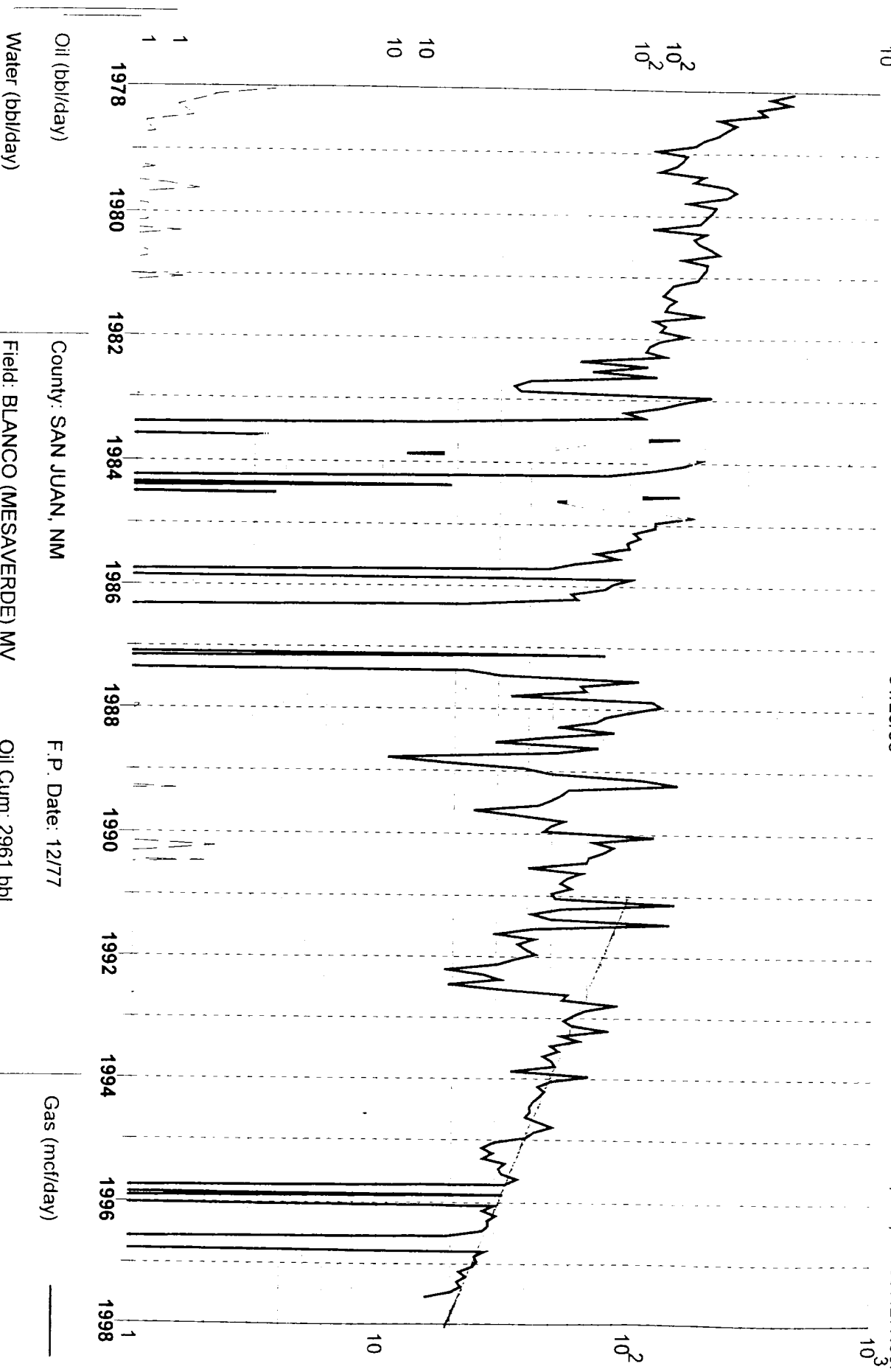
NOTE: ALL PRODUCTION DATA FROM DWIGHTS ENERGYDATA

# Dwights

Lease: MARRON WN FEDERAL COM (1)

01/29/98

Retrieval Code: 251,045,27N08W27N00MV



Oil (bbl/day)

Water (bbl/day)

County: SAN JUAN, NM

Field: BLANCO (MESAVERDE) MV

Reservoir: MESAVERDE

Operator: CONOCO INC

F.P. Date: 12/77

Oil Cum: 2961 bbl

Gas Cum: 630.9 mmcf

Location: 27N 27N 8W

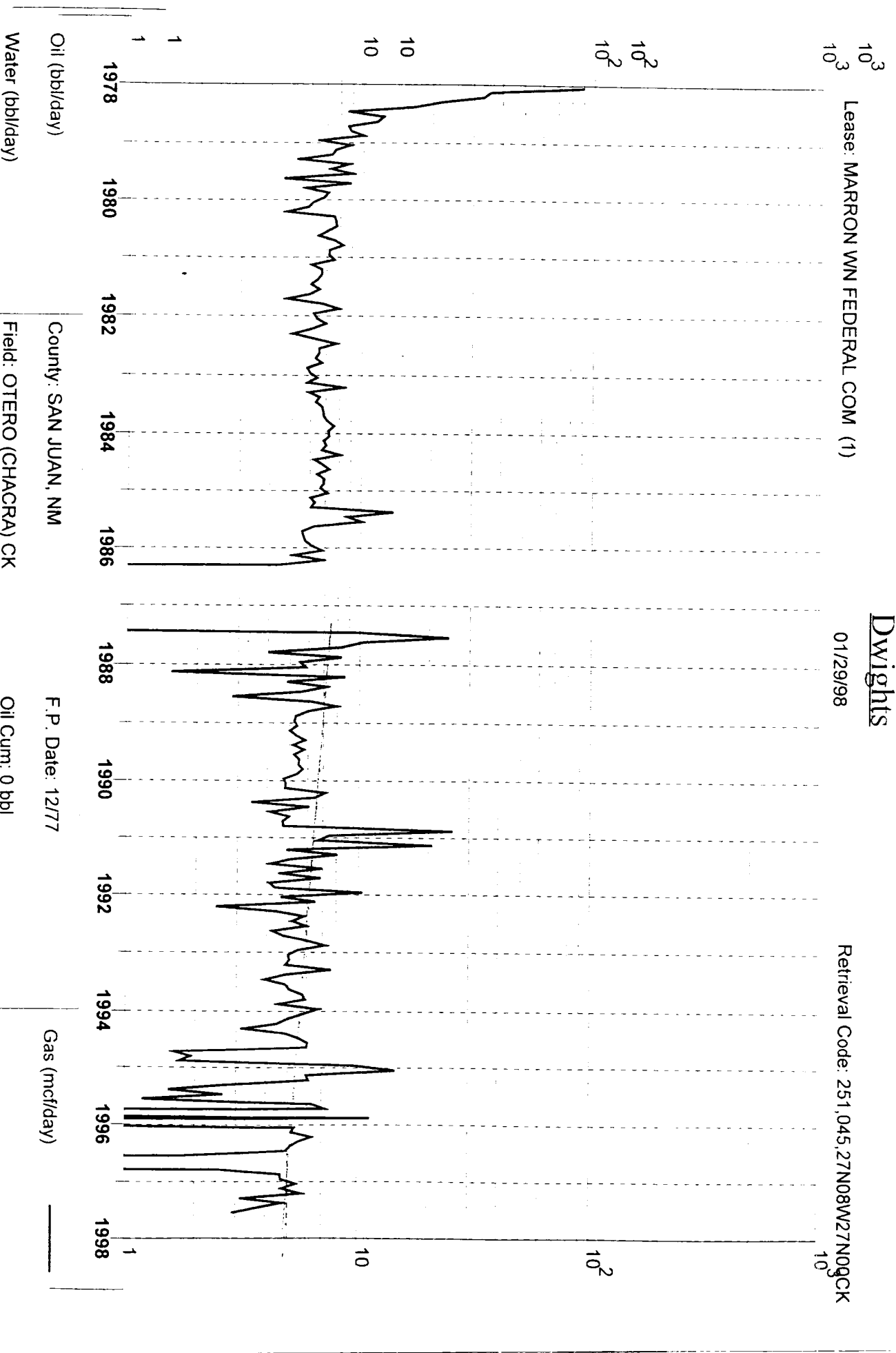
Gas (mcf/day)

# Dwights

01/29/98

Lease: MARRON WN FEDERAL COM (1)

Retrieval Code: 251,045,27N08W27N09CK



Oil (bbl/day)

Water (bbl/day)

County: SAN JUAN, NM

Field: OTERO (CHACRA) CK

Reservoir: CHACRA

Operator: CONOCO INC

F.P. Date: 12/77

Oil Cum: 0 bbl

Gas Cum: 49.01 mmcf

Location: 27N 27N 8W

Gas (mcf/day)

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION AT

Form C-102  
Supersedes C-123  
Effective 1-1-65

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

Operator <b>Atlantic Richfield Company</b>			Lessee <b>Marron WN Federal Com.</b>			Well No. <b>1</b>
Unit Letter <b>N</b>	Section <b>27</b>	Township <b>27 North</b>	Range <b>8 West</b>	County <b>San Juan</b>		
Actual Portage Location of Well: <b>1010</b> feet from the <b>South</b> line and <b>1490</b> feet from the <b>West</b> line						
Ground Level Elev. <b>6728</b>	Producing Formation <b>Mesaverde &amp; Chacra</b>		Pool <b>Blanco Mesaverde &amp; Largo Chacra</b>		Dedicated Acreage: <b>320 &amp; 160</b> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). **Both Federal Leases**
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? **\* Operating Agreement has been executed. Communitization Agmt. being prepared.**  
☐ Yes ☒ No\* If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

Atlantic Richfield Company Lse. No. SF - 078478 NW/4 Sec. 27		SEC 27	
Tox Partnership Lse No. NM - 03604 SW/4 Sec. 27		cc Jimmy Partner 5-4-77	

1490' 1010'

330 550 970 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600 6930 7260 7590 7920 8250 8580 8910 9240 9570 9900 10230 10560 10890 11220 11550 11880 12210 12540 12870 13200 13530 13860 14190 14520 14850 15180 15510 15840 16170 16500 16830 17160 17490 17820 18150 18480 18810 19140 19470 19800 20130 20460 20790 21120 21450 21780 22110 22440 22770 23100 23430 23760 24090 24420 24750 25080 25410 25740 26070 26400 26730 27060 27390 27720 28050 28380 28710 29040 29370 29700 30030 30360 30690 31020 31350 31680 32010 32340 32670 33000 33330 33660 33990 34320 34650 34980 35310 35640 35970 36300 36630 36960 37290 37620 37950 38280 38610 38940 39270 39600 39930 40260 40590 40920 41250 41580 41910 42240 42570 42900 43230 43560 43890 44220 44550 44880 45210 45540 45870 46200 46530 46860 47190 47520 47850 48180 48510 48840 49170 49500 49830 50160 50490 50820 51150 51480 51810 52140 52470 52800 53130 53460 53790 54120 54450 54780 55110 55440 55770 56100 56430 56760 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204600 204930 205260 205590 205920 206250 206580 206910 207240 207570 207900 208230 208560 208890 209220 209550 209880 210210 210540 210870 211200 211530 211860 212190 212520 212850 213180 213510 213840 214170 214500 214830 215160 215490 215820 216150 216480 216810 217140 217470 217800 218130 218460 218790 219120 219450 219780 220110 220440 220770 221100 221430 221760 222090 222420 222750 223080 223410 223740 224070 224400 224730 225060 225390 225720 226050 226380 226710 227040 227370 227700 228030 228360 228690 229020 229350 229680 230010 230340 230670 231000 231330 231660 231990 232320 232650 232980 233310 233640 233970 234300 234630 234960 235290 235620 235950 236280 236610 236940 237270 237600 237930 238260 238590 238920 239250 239580 239910 240240 240570 240900 241230 241560 241890 242220 242550 242880 243210 243540 243870 244200 244530 244860 245190 245520 245850 246180 246510 246840 247170 247500 247830 248160 248490 248820 249150 249480 249810 250140 250470 250800 251130 251460 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487740 488070 488400 488730 489060 489390 489720 490050 490380 490710 491040 491370 491700 492030 492360 492690 493020 493350 493680 494010 494340 494670 495000 495330 495660 495990 496320 496650 496980 497310 497640 497970 498300 498630 498960 499290 499620 499950 500280 500610 500940 501270 501600 501930 502260 502590 502920 503250 503580 503910 504240 504570 504900 505230 505560 505890 506220 506550 506880 507210 507540 507870 508200 508530 508860 509190 509520 509850 510180 510510 510840 511170 511500 511830 512160 512490 512820 513150 513480 513810 514140 514470 514800 515130 515460 515790 516120 516450 516780 517110 517440 517770 518100 518430 518760 519090 519420 519750 520080 520410 520740 521070 521400 521730 522060 522390 522720 523050 523380 523710 524040 524370 524700 525030 525360 525690 526020 526350 526680 527010 527340 527670 528000 528330 528660 528990 529320 529650 529980 530310 530640 530970 531300 531630 531960 532290 532620 532950 533280 533610 533940 534270 534600 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Conoco, Inc  
10 Desta Dr Suite 100W  
Midland, TX 79705

RE: Downhole Commingle C-107A Application  
Marron WN Federal COM #1  
Section 27, T-27-N, R-7-W  
API # 30-045-22518  
Rio Arriba County, NM

**OFFSET OPERATORS:**

Union Oil Of California  
PO Box 850  
Bloomfield, NM 87413