

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 87505-8429

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

Jicarilla K 15 I-1-T25N-R5W Rio Arriba
Lease Well No Unit Ltr Sec Twp Rge County

OGRID NO. 005073 Property State 18023 API NO. 30-039-20393 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	So. Blanco Pictured Cliffs 72439	Blanco Mesaverde 72319	Basin Dakota 71599
2. TOP and Bottom of Pay Section (Perforations)	3196'-3206'	5290'-5549'	7394'-7584'
3. Type of production (Oil or Gas)	Gas	Gas	Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing	Flowing	Flowing
5. Bottom hole Pressure	a. (Current) 273 psia	a. 754 psia	a. 531 psia
Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	b. (Original) 1087 psia	b. 1093 psia	b. 2784 psia
6. Oil Gravity (*API) or Gas BTU Content	1262 BTU	1250 BTU	1280 BTU
7. Producing or Shut-In?	Producing	To be Completed	Producing
Production Marginal? (yes or no)	Yes	Yes	Yes
• If Shut-In give date and oil/gas/water rates of last production Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data. • If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date Rates Mid-Year Average Producing Rates -- See attached Table	Date Rates Incremental Production by Subtraction --- Use attached Table	Date Rates Mid-Year Average Producing Rates -- See attached Table
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? ☒ 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. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). _____

16. ATTACHMENTS

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

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

SIGNATURE Jerry W. Hoover TITLE Sr. Conservation Coord. DATE 6/19/97

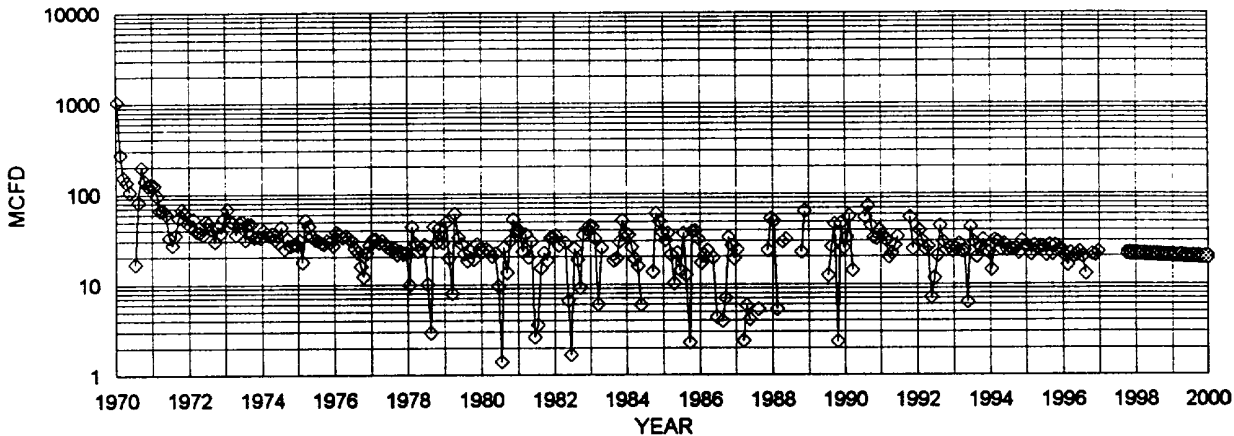
TYPE OR PRINT NAME Jerry W. Hoover TELEPHONE NO. (915) 686-6548

PREPARED BY: PDB

JICARILLA K 10 DAKOTA/PICTURED CLIFFS COMMINGLED PRODUCTION FOR SUBTRACTION METHOD

YEAR	PC MID-YEAR MCFD	DAKOTA MID-YEAR MCFD	DAKOTA MID-YEAR BOPD	TOTAL MID-YEAR AVG. MCFD	TOTAL MID-YEAR AVG. BOPD
1997	21.3	80	0.5	102	0.5
1998	20.8	78	0.5	98	0.5
1999	20	75	0.5	95	0.5
2000	19	72	0.5	91	0.5
2001	18	69	0.5	88	0.5
2002	18	67	0.4	84	0.4
2003	17	64	0.4	81	0.4
2004	16	61	0.4	78	0.4
2005	16	59	0.4	75	0.4
2006	15	57	0.4	72	0.4
2007	14	54	0.4	69	0.4
2008	14	52	0.3	66	0.3
2009	13	50	0.3	63	0.3
2010	13	48	0.3	61	0.3
2011	12	46	0.3	58	0.3
2012	12	44	0.3	56	0.3
2013	11	43	0.3	54	0.3
2014	11	41	0.3	52	0.3
2015	10	39	0.3	50	0.3
2016	10	38	0.3	48	0.3
2017	10	36	0.2	46	0.2
2018	9	35	0.2	44	0.2
2019	9	33	0.2	42	0.2
2020	8	32	0.2	40	0.2
2021	8	31	0.2	39	0.2
2022	8	29	0.2	37	0.2
2023	7	28	0.2	36	0.2
2024	7	27	0.2	34	0.2
2025	7	26	0.2	33	0.2
2026	7	25	0.2	32	0.2
2027	6	24	0.2	30	0.2
2028	6	23	0.2	29	0.2
2029	6	22	0.1	28	0.1
2030	6	21	0.1	27	0.1
2031	5	20	0.1	26	0.1

JICARILLA K 10 PICTURED CLIFFS PRODUCTION
 SECTION 1D-25N-05W

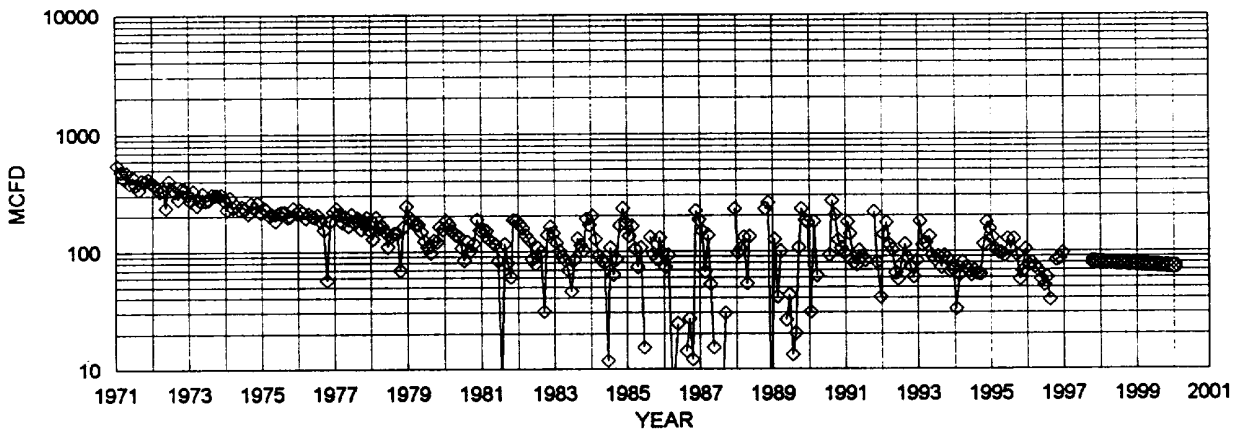


◇ PICTURED CLIFFS ◆ FIT MCFD

PICTURED CLIFFS HISTORICAL DA 1ST PROD: 01/70
 OIL CUM: 0.22 MBO
 GAS CUM: 322.0 MMCF
 OIL YIELD: 0.0007 BBL/MCF

PICTURED CLIFFS PROJECTED DATA
 10/1/97 Q1: 21 MCFD
 DECLINE RATE: 4.0% (EXPONENTIAL)

JICARILLA K 10 DAKOTA PRODUCTION
 SECTION 1D-25N-5W



◇ DAKOTA MCFD ◆ FIT MCFD

DAKOTA HISTORICAL DATA 1ST PROD: 01/70
 OIL CUM: 10.5 MBO
 GAS CUM: 1566.7 MMCF
 OIL YIELD: 0.0067 BBL/MCF

DAKOTA PROJECTED DATA
 10/1/97 Q1: 81 MCFD
 DECLINE RATE: 4.0% (EXPONENTIAL)

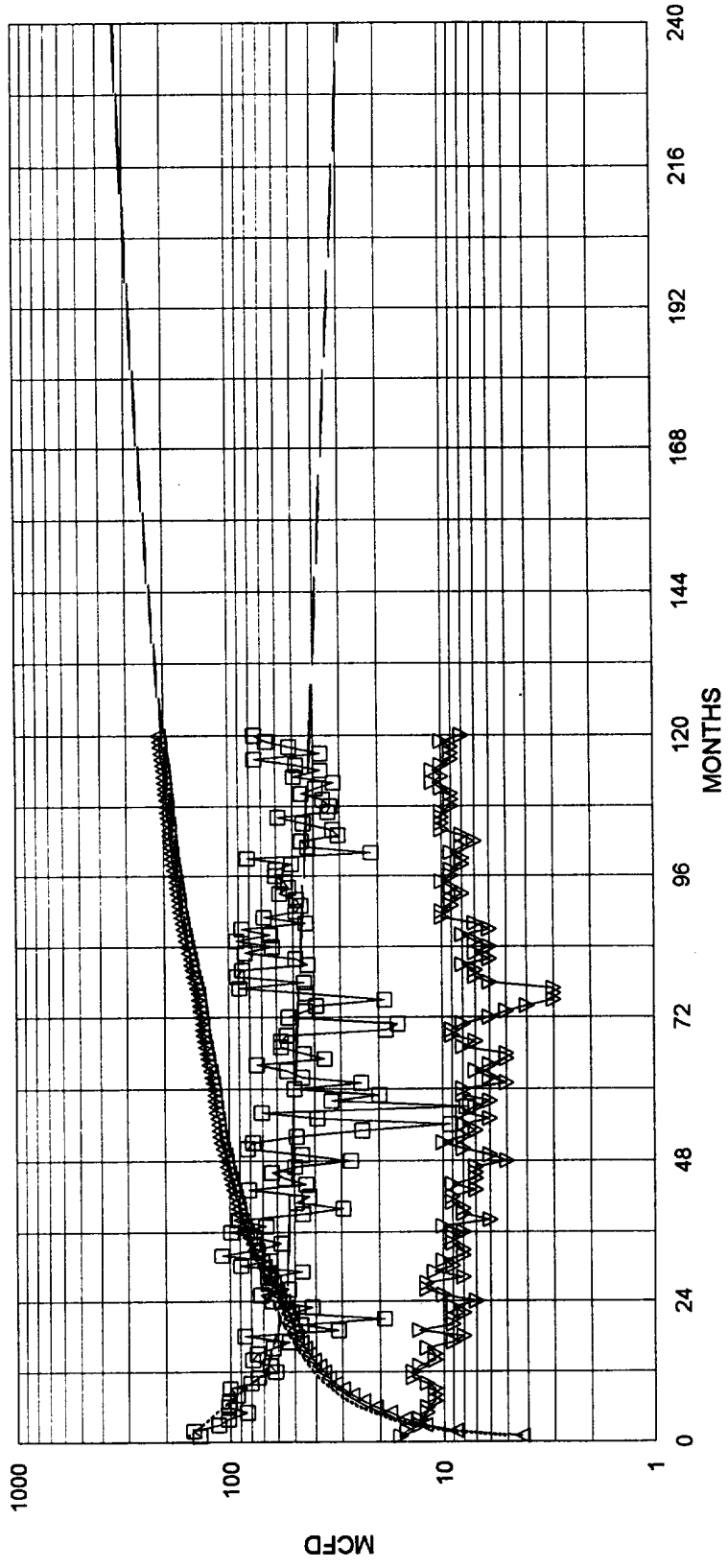
FIXED COMMINGLE ALLOCATION FACTORS:

	GAS	OIL
PIC. CLIFFS	21%	3%
DAKOTA	79%	97%

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

NOTE: ALL PRODUCTION DATA FROM DWIGHTS ENERGYDATA

NORMALIZED MESAVERDE PRODUCTION
17 WELLS SINCE 1982; OFFSET TO JIC. K LEASE (25N-5W)



— FIT MCFD □ NORMALIZED MCFD ▲ NORM CUM MMCF
▽ WELLS ON PRODUCTION — FIT CUM MMCF

NORMALIZED AVG:	
423 MMCF EUR	172 MCFD IP
331 MMCF IN 20 YRS	60.0% DECLINE, 1ST 12 MONTHS
20 MCFD E.L.	20.0% DECLINE, NEXT 12 MONTHS
0.05 BBL/MCF OIL	3.5% FINAL DECLINE

WELL LOCATION AND DEDICATION STATEMENT

SEE INSTRUCTIONS ON REVERSE SIDE OF THIS FORM

Operator SOUTHERN UNION PRODUCTION COMPANY		Lease 1100000		Well No. 10
Unit Letter B	Section 25	Township NORTH	Range 1190	County RED WING
Actual Location of Well: 790 feet from the NORTH line and 1190 feet from the WEST line				
Ground Level Elev. 6690.10	Production Formation Dakota	Pool Southern Union Dakota	Dedicated Acreage 160 P.O. Acres	

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

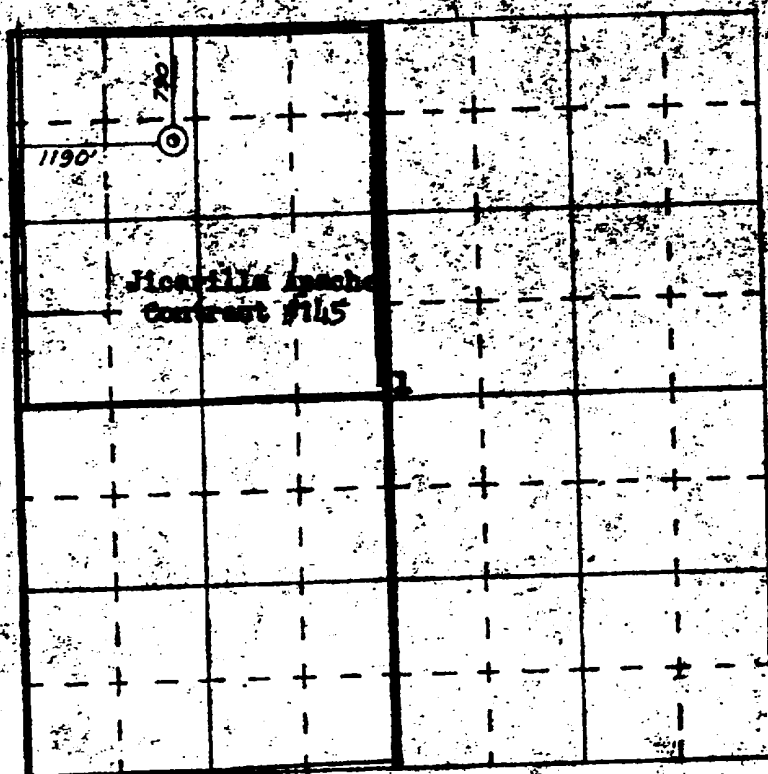
() Yes () No If answer is "yes" type of consolidation _____

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

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

Indicated Plotted Acreage

Dedicated Dakota Acreage



SCALE—4 INCHES EQUALS 1 MILE

CERTIFICATION

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

ORIGINAL SIGNED BY

Name **B. R. VANDERSLICE**

Position **Bill Vanderslice**

Company **Area Superintendent**

Date **Southern Union Production**

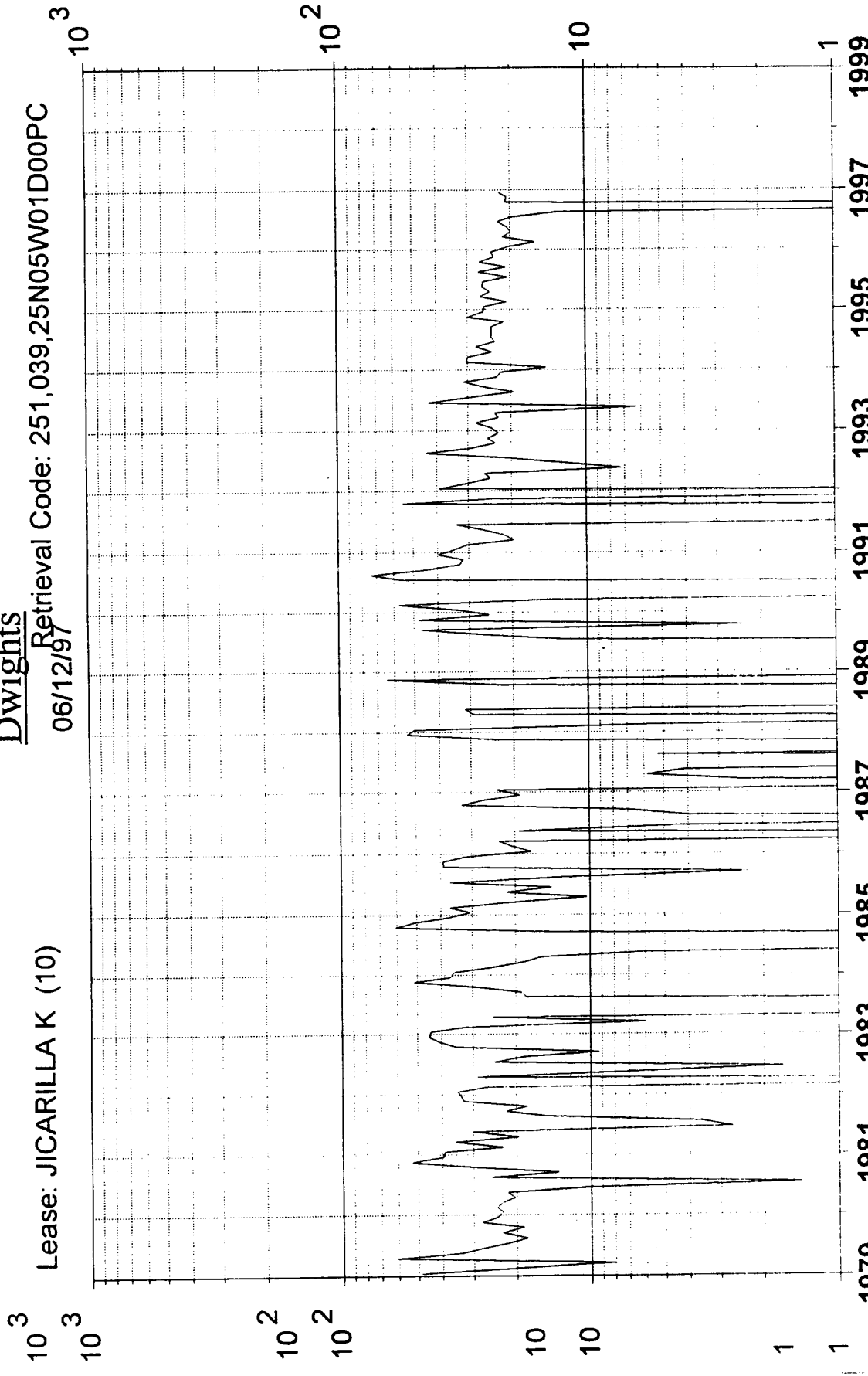
Date **August 8, 1969**

Dwights

Lease: JICARILLA K (10)

06/12/97

Retrieval Code: 251,039,25N05W01D00PC



Gas (mcf/day)

Oil (bbl/day).

Water (bbl/day)

County: RIO ARRIBA, NM

F.P. Date: N/A

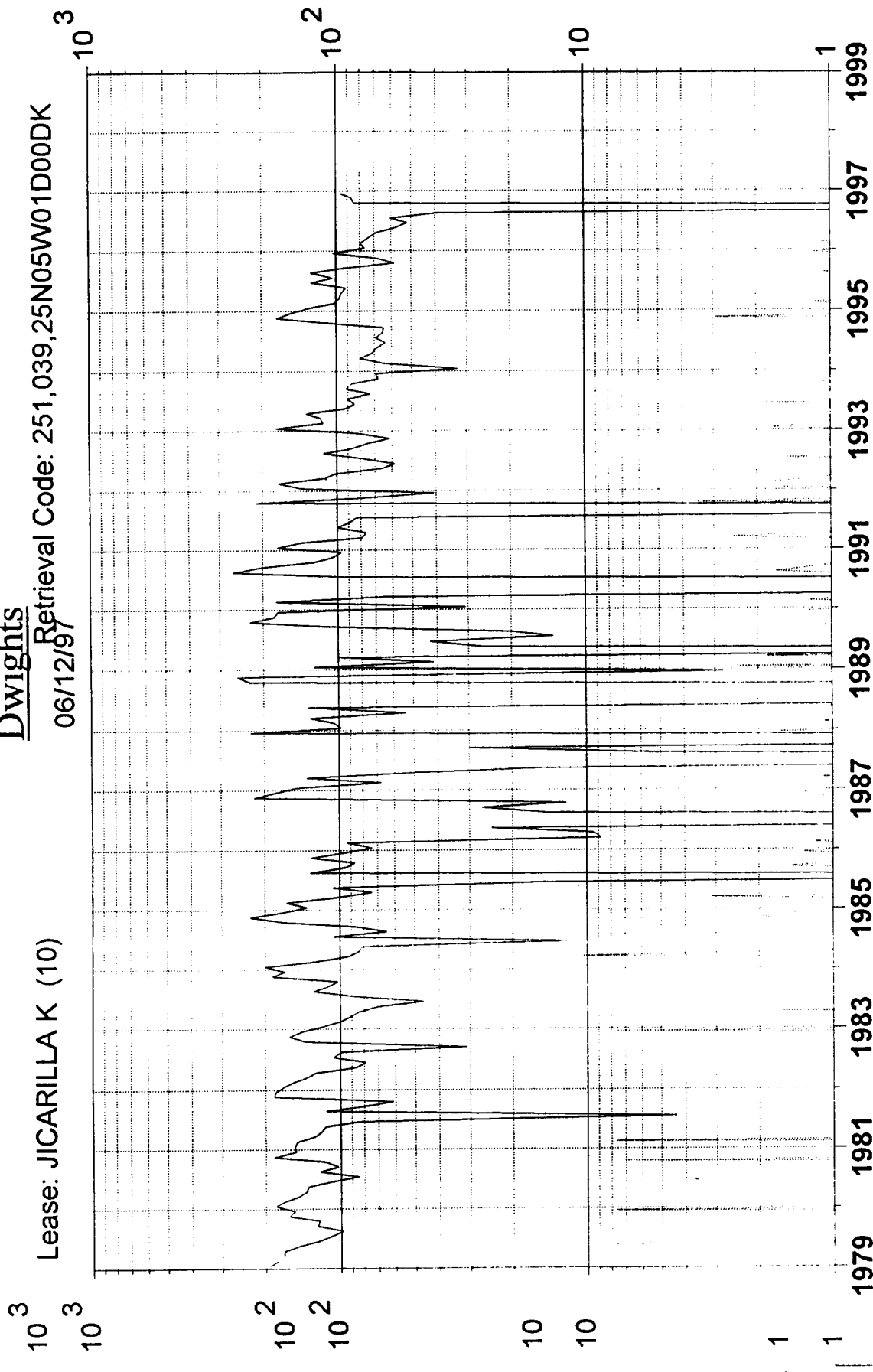
Field: BLANCO SOUTH (PICTU Oil Cum: 217 bbl

Reservoir: PICTURE CLIFFS Gas Cum: 322.0 mmcf

Operator: CONOCO INC Location: 1D 25N 5W

Dwights

Lease: JICARILLA K (10)
Retrieval Code: 251,039,25N05W01D00DK
06/12/97



County: RIO ARRIBA, NM	F.P. Date: 02/70
Field: BASIN (DAKOTA) DK	Oil Cum: 10.45 mbbl
Reservoir: DAKOTA	Gas Cum: 1567 mmcf
Operator: CONOCO INC	Location: 1D 25N 5W

Gas (mcf/day)

Oil (bbl/day)

Water (bbl/day)

JICARILLA K #10
OFFSET OPERATORS

BURLINGOTN RES.	BURLINGTON RES. UNION TEXAS PETR	
35	36	31
	T26N R5W	T26N R4W
CONOCO, INC.	CONOCO, INC.	
2	1	6
	T25N R5W	T25N R4W
CONOCO, INC.	CONOCO, INC.	
11	12	7

Township 25N — Range 5W