

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 87410-1893

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

Conoco Inc.

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

Operator

Address

Jicarilla K

Lease

Well No 10

Unit Ltr Sec Twp Rge

D-1-T25N-R5W

Rio Arriba

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 005073 Property Code 18023 API NO. 30-039-20260 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)	3214'-3284'	4120'-5590'	7414'-7610'
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)	a.	a.
Oil Zones - Artificial Lift: Estimated Current	268 psia	756 psia	628 psia
Gas & Oil - Flowing: Measured Current	b. (Original)	b.	b.
All Gas Zones: Estimated Or Measured Original	1089 psia	1096 psia	2786 psia
6. Oil Gravity (*API) or Gas BTU Content	1274 BTU	1250 BTU	1277 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	Date Rates Incremental Production by Subtraction --- Use attached Table	Date Rates
	Date Rates Mid-Year Average Producing Rates -- See attached Table	Date Rates	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. NMOC Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). _____

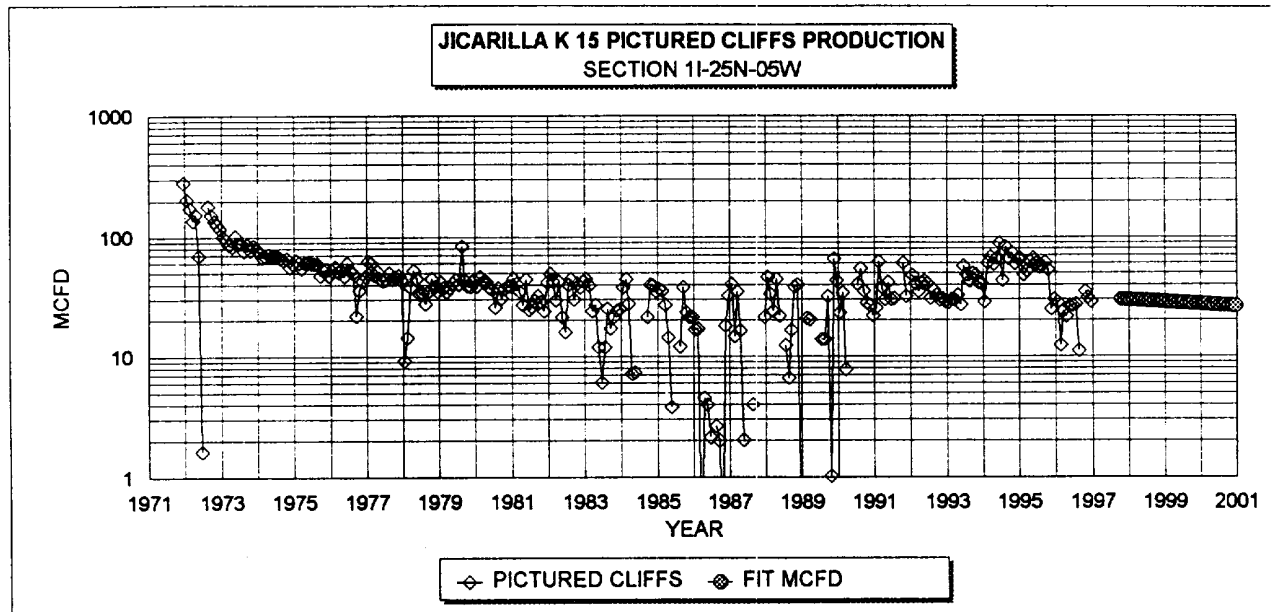
16. ATTACHMENTS

- * 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 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 _____ TITLE Sr. Conservation Coord. DATE 6/19/97

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

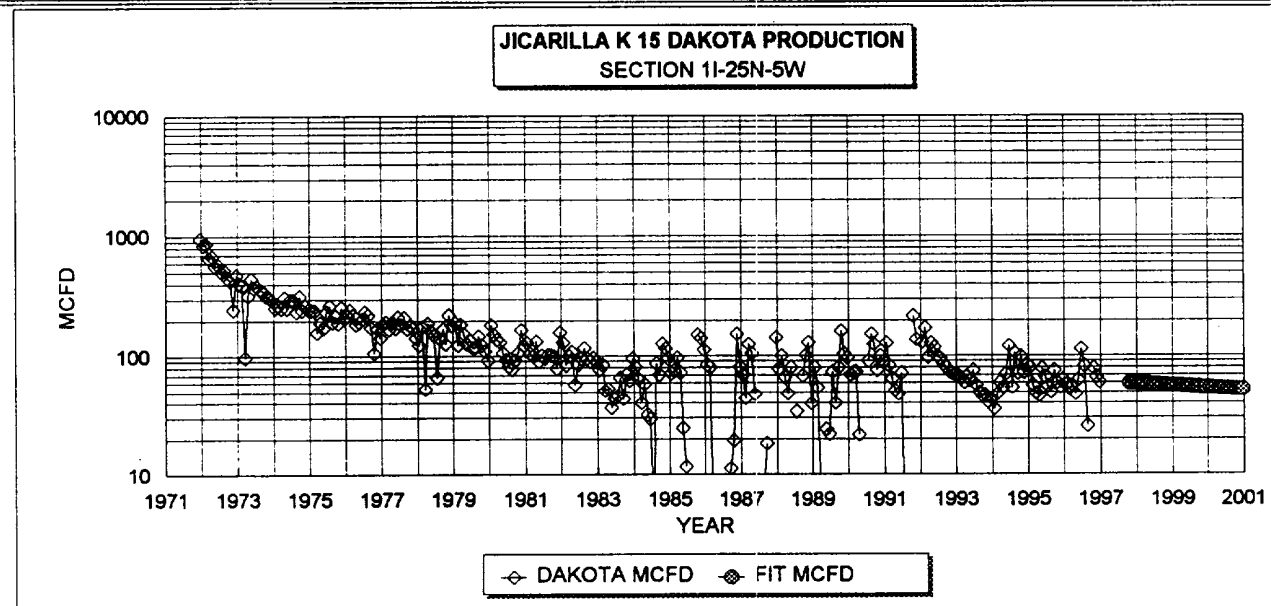


PICTURED CLIFFS HISTORICAL DATA 1ST PROD: 12/71

OIL CUM: 0.00 MBO
GAS CUM: 375.4 MMCF
OIL YIELD: 0.0000 BBL/MCF

PICTURED CLIFFS PROJECTED DATA

10/1/97 Q1: 30 MCFD
DECLINE RATE: 4.0% (EXPONENTIAL)



DAKOTA HISTORICAL DATA 1ST PROD: 12/71

OIL CUM: 13.2 MBO
GAS CUM: 1220.7 MMCF
OIL YIELD: 0.0108 BBL/MCF

DAKOTA PROJECTED DATA

10/1/97 Q1: 60 MCFD
DECLINE RATE: 4.0% (EXPONENTIAL)

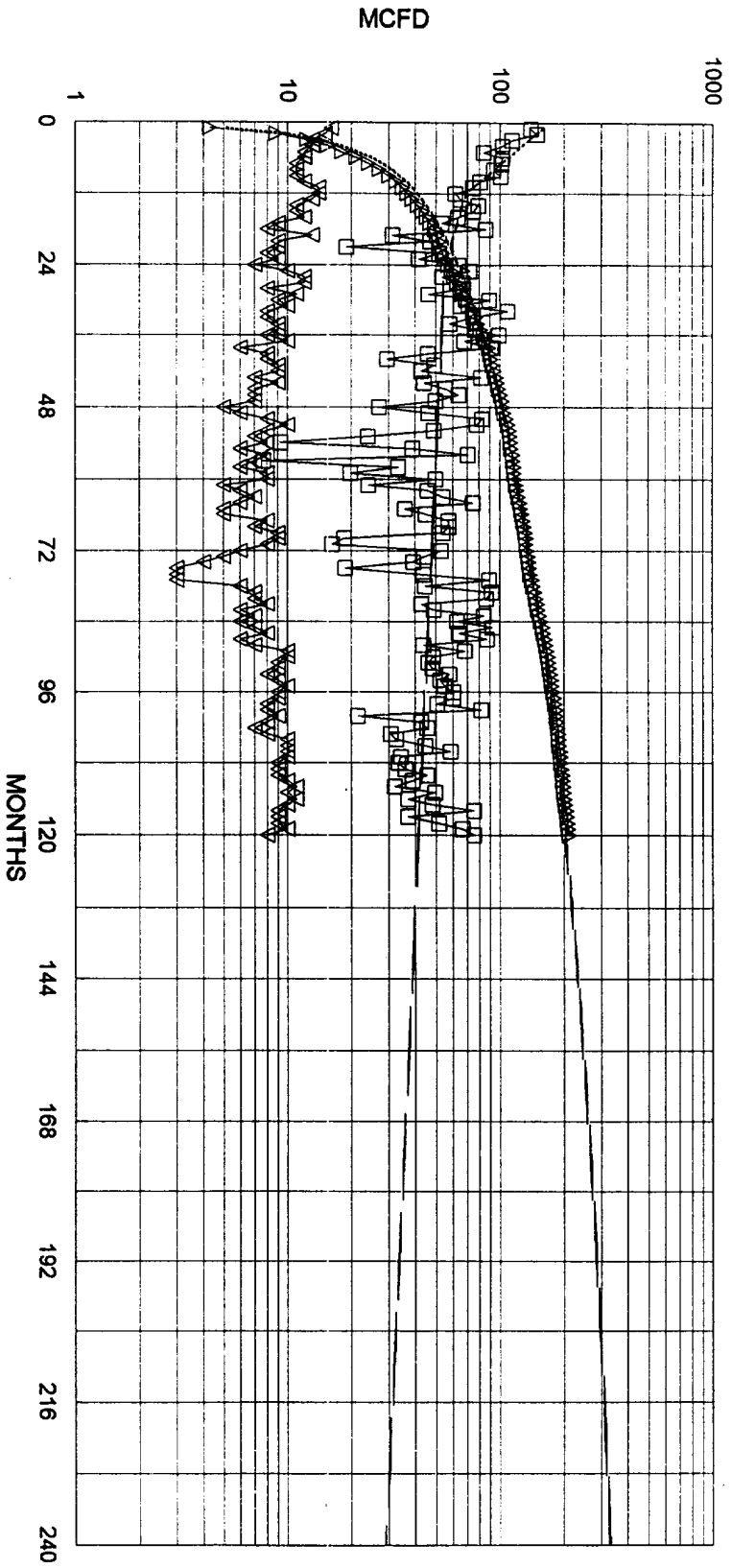
FIXED COMMINGLE ALLOCATION FACTORS:

	GAS	OIL
PIC CLIFFS	33%	0%
DAKOTA	67%	100%

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

NOTE: ALL PRODUCTION DATA FROM DWIGHTS ENERGY DATA

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

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form 17-102
Supersedes C-126
Effective 1-1-61

All distances must be from the outer boundaries of the Section

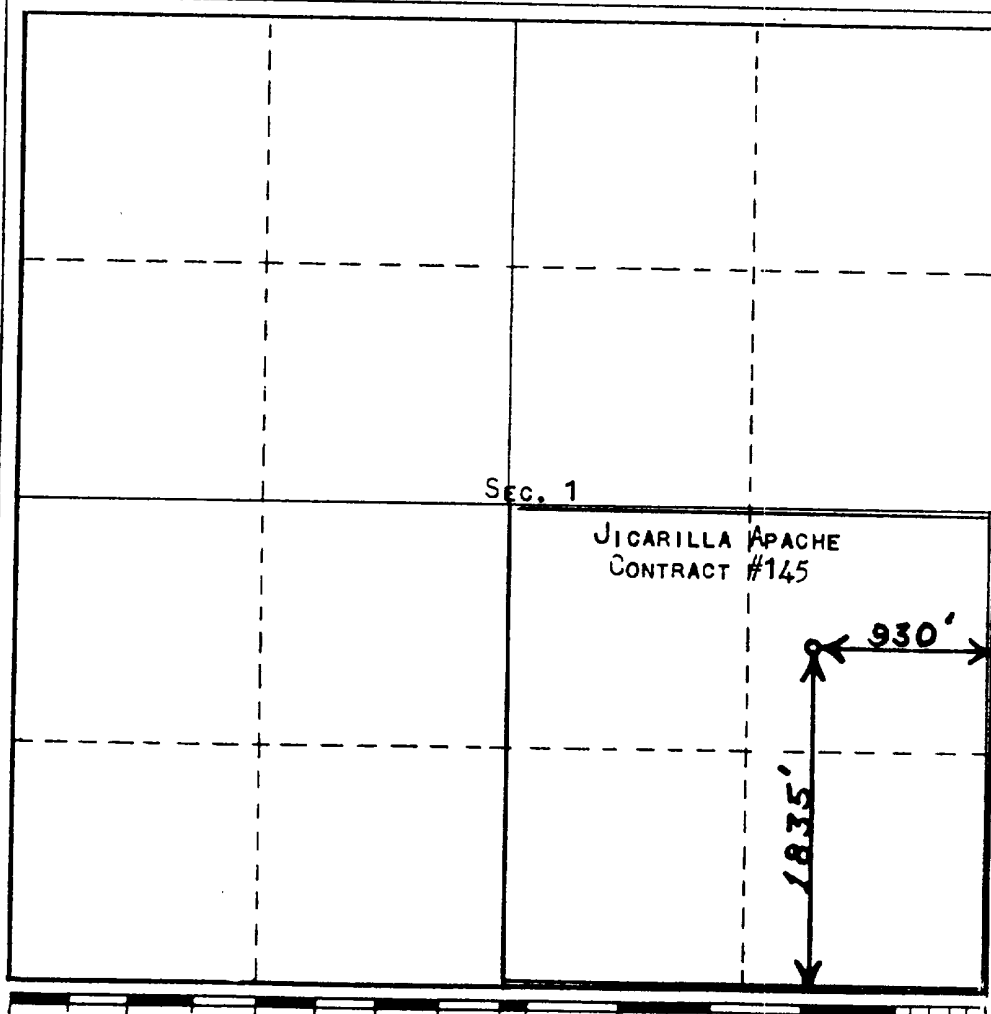
Operator SOUTHERN UNION PRODUCTION COMPANY				Lease JICARILLA "K"		Well No. 15
Unit Letter I	Section 1	Township 25 NORTH	Range 5 WEST	County RIO ARriba		
Actual Footage Location of Well: 1835 feet from the SOUTH line and 930 feet from the EAST line						
Ground Level Elev. 6804.0	Producing Formation PICTURED CLIFFS		Pool SOUTH BLANCO PICTURED CLIFFS		Dedicated Acreage: 160 Acres	

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

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

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

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



CERTIFICATION

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

Gilbert D. Noland, Jr.

Name
GILBERT D. NOLAND, JR.

Position
DRILLING SUPERINTENDENT

Company
SOUTHERN UNION PRODUCTION

Date
NOVEMBER 19, 1971

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.

JUNE 18, 1971

Date Surveyed

Registered Professional Engineer and/or Land Surveyor

JAMES P. LEESE

Certificate No.

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACERAGE DEDICATION PLAT**

All distances must be from the outer boundaries of the Section

Operator SOUTHERN UNION PRODUCTION COMPANY Lease JICARILLA "K" Well No. 15
 Section 1 Township 25 NORTH Range 5 WEST County RIO ARriba
 Actual Footage Location of Well:
1835 feet from the SOUTH line 930 feet from the EAST line
 Gross Acreage 6804.0 DAKOTA BASIN DAKOTA Dedicated Acreage E/2, 319.91 Acres

Outline the acreage dedication to the subject well by color or pencil or black ink markings on the plat below.

2. If more than one lease is dedicated to the well, outline each lease and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

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

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, forced-pooling, or otherwise) or until a non standard unit, eliminating such interests, has been approved by the Commission.

CERTIFICATION

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

Original signed by
Name GILBERT D. NOLAND, JR.

Position DRILLING SUPERINTENDENT

Company SOUTHERN UNION PRODUCTION

Date JUNE 23, 1971

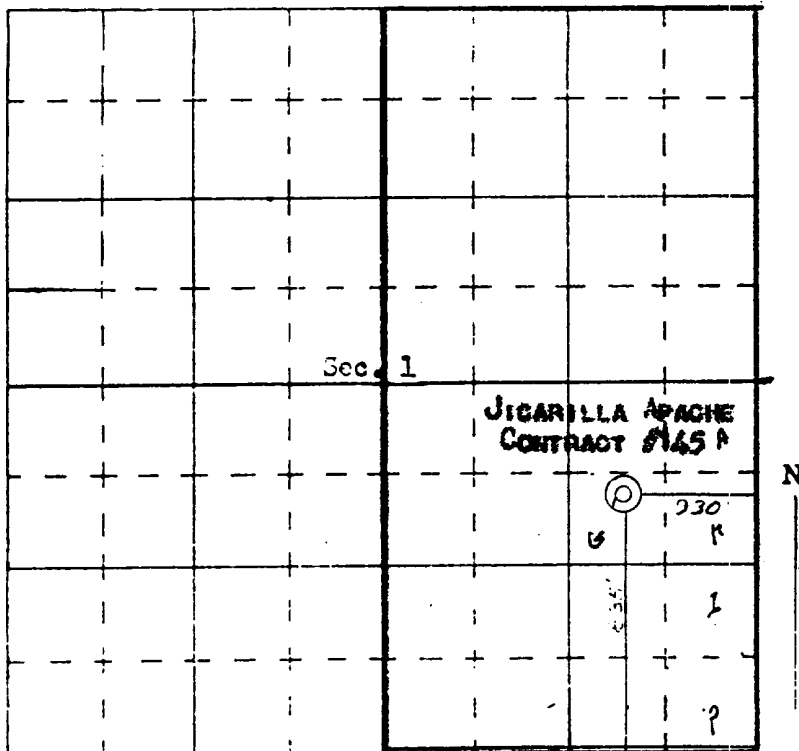
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

18 June, 1971

James A. Little
Registered Professional Engineer
and/or Land Surveyor

JAMES A. LITTLE
1463

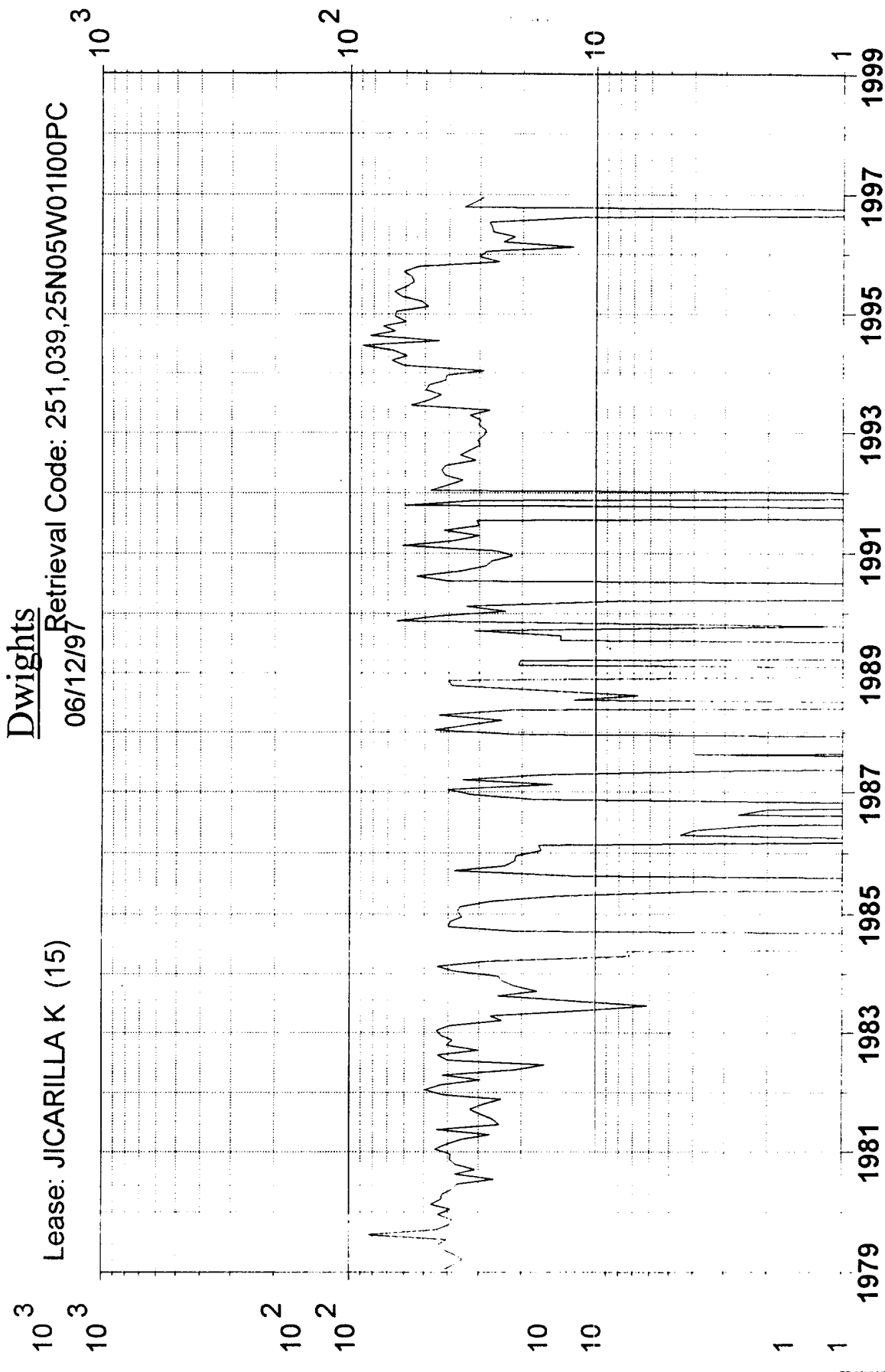
Certificate No. _____



SCALE—4 INCHES EQUALS 1 MILE

Dwights

Lease: JICARILLA K (15)
Retrieval Code: 251,039,25N05W01I00PC
06/12/97



Gas (mcf/day)	County: RIO ARRIBA, NM	F.P. Date: 12/71
Oil (bbl/day)	Field: BLANCO SOUTH (PICTU	Oil Cum: 0 bbl
	Reservoir: PICTURE CLIFFS	Gas Cum: 375.4 mmcf
	Operator: CONOCO INC	Location: 1I 25N 5W

Water (bbl/day)

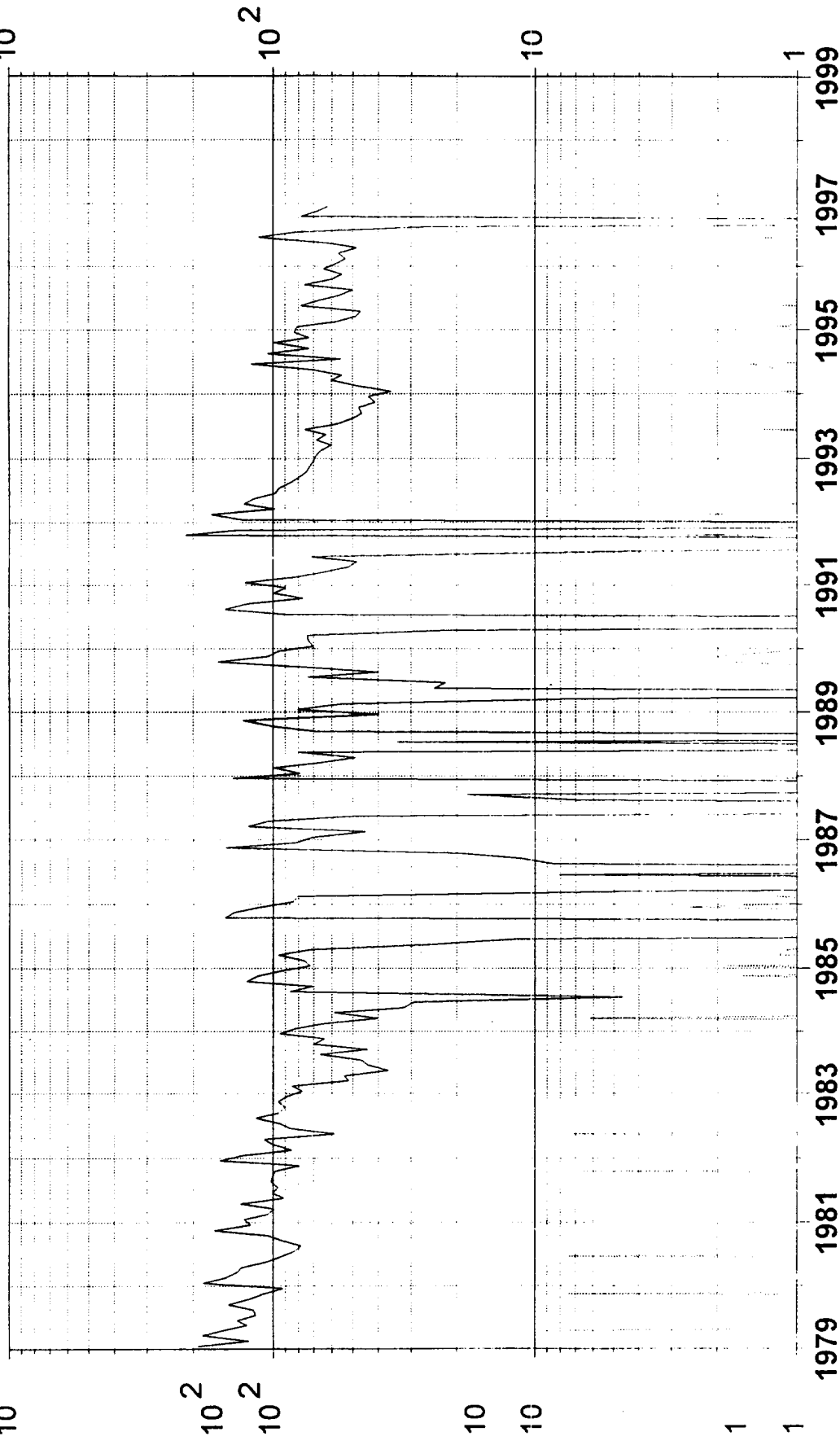
Dwights

Lease: JICARILLA K (15)

Retrieval Code: 251,039,25N05W01I00DK

06/12/97

10³
10³
10³
10²
10²
10²
10¹
10¹
10¹
10¹



Gas (mcf/day)

Oil (bbl/day)

Water (bbl/day)

F.P. Date: 12/71

County: RIO ARRIBA, NM

Field: BASIN (DAKOTA) DK

Oil Cum: 13.23 mbbl

Gas Cum: 1221 mmcf

Reservoir: DAKOTA

Location: 11 25N 5W

Operator: CONOCO INC

JICARILLA K #15
OFFSET OPERATORS

BURLINGTON RES. 35	BURLINGTON RES. UNION TEXAS PETR 36	BURLINGTON RES. CONOCO, INC. MCHUGH JEROME P 31
CONOCO, INC. 2	CONOCO, INC. 1	BURLINGTON RES. EL PASO EXPL. CO. T25N R4W 6
CONOCO, INC. 11	CONOCO, INC. 12	BURLINGTON RES. EL PASO EXPL. CO. 7

Township 25N — Range 5W

PREPARED BY: PDB

JICARILLA K 15 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	30	59	0.6	89	0.6
1998	29	58	0.6	87	0.6
1999	28	56	0.6	84	0.6
2000	27	53	0.6	80	0.6
2001	26	51	0.6	77	0.6
2002	25	49	0.5	74	0.5
2003	24	47	0.5	71	0.5
2004	23	45	0.5	68	0.5
2005	22	44	0.5	65	0.5
2006	21	42	0.5	63	0.5
2007	20	40	0.4	60	0.4
2008	19	39	0.4	58	0.4
2009	19	37	0.4	56	0.4
2010	18	36	0.4	53	0.4
2011	17	34	0.4	51	0.4
2012	16	33	0.4	49	0.4
2013	16	31	0.3	47	0.3
2014	15	30	0.3	45	0.3
2015	15	29	0.3	43	0.3
2016	14	28	0.3	42	0.3
2017	13	27	0.3	40	0.3
2018	13	26	0.3	38	0.3
2019	12	25	0.3	37	0.3
2020	12	24	0.3	35	0.3
2021	11	23	0.2	34	0.2
2022	11	22	0.2	33	0.2
2023	10	21	0.2	31	0.2
2024	10	20	0.2	30	0.2
2025	10	19	0.2	29	0.2
2026	9	18	0.2	28	0.2
2027	9	18	0.2	27	0.2
2028	9	17	0.2	26	0.2
2029	8	16	0.2	25	0.2
2030	8	16	0.2	24	0.2
2031	8	15	0.2	23	0.2