

DATE IN 2/6/98	SUSPENSE 2/26/98	ENGINEER DC	LOGGED BY KV	TYPE 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

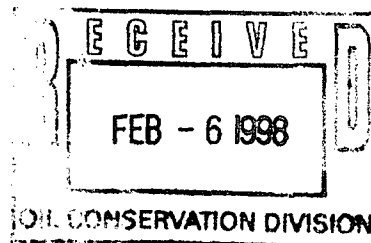
Check One Only for [B] and [C]

[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 understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

Kay Maddox
Print or Type Name

Kay Maddox
Signature

Regulatory Agent
Title

Feb 3, 1998
Date

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

Operator
Conoco Inc.

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

Lease
Jicarilla A

Well No
11

Section 14, T-26-N, R-4-W, J

County
Rio Arriba

OGRID NO. 005073

Property Code

18018

API NO.

30-039-20122

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	Wildhorse Gallup 87360	Basin Dakota 71599
2. TOP and Bottom of Pay Section (Perforations)	5954-6086'	7510-7526'	7982-8176'
3. Type of production (Oil or Gas)	Gas	Gas	Gas
4. Method of Production (Flowing or Artificial Lift)	To Flow	Flowing	Flowing
5. Bottomhole Pressure	a. (Current)	a.	a.
Oil Zones - Artificial Lift: Estimated Current	583	327	619
Gas & Oil - Flowing: Measured Current	b.(Original)	b.	b.
All Gas Zones: Estimated Or Measured Original	1411	2132	3152
6. Oil Gravity (°API) or Gas BT Content	1203	1315	1315
7. Producing or Shut-In?	To Be Completed	Producing	Producing
Production Marginal? (yes or no)	Yes	Yes	Yes
• If Shut-In give date and oil/gas/water rates of last production	Date Rates	Date Rates	Date Rates
Note For new zones with no production history applicant shall be required to attach production estimates and supporting data			
• If Producing, date and oil/gas/water rates of recent test (within 60 days)	Date Rates	Date Rates	Date Rates
	Production Alloc. By Subtraction - See Attached Table	Est 7/98 67 MCFD, 0.4 BOPD, 0 BOPD	Est 7/98 98 MCFD, 1.9 BOPD, 0 BWPD
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

Kay Maddox

TITLE Regulatory Agent

DATE

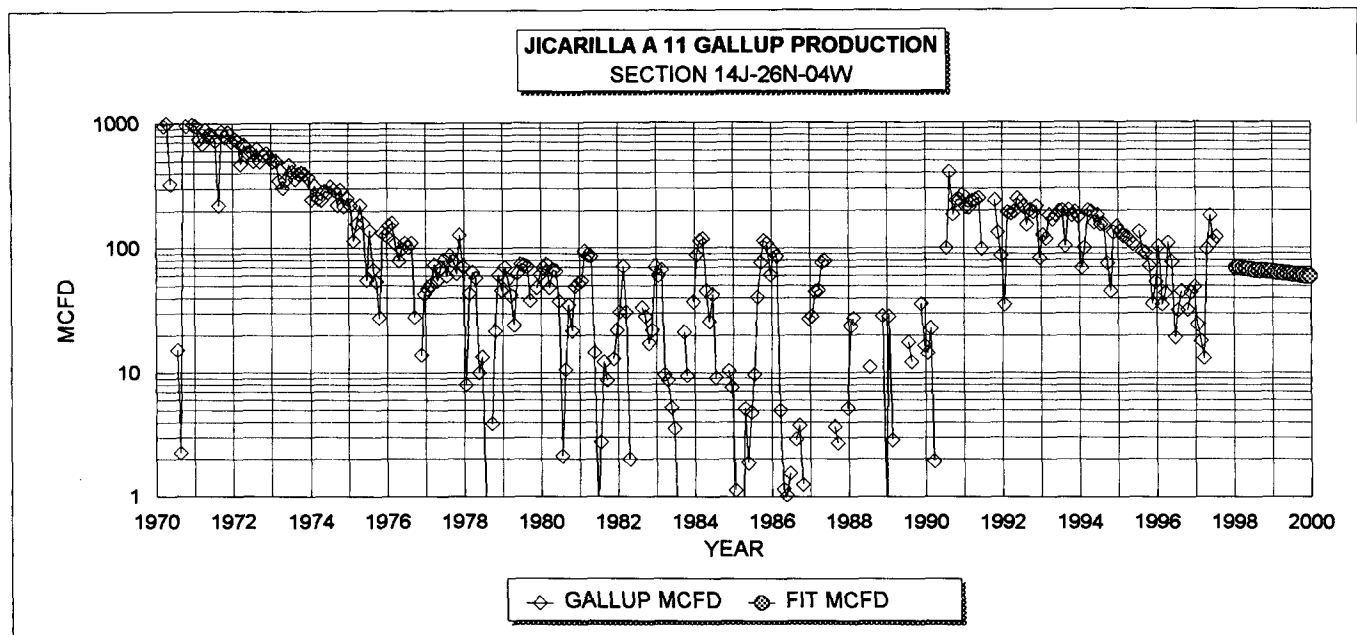
Feb 3, 1998

TYPE OR PRINT NAME Kay Maddox

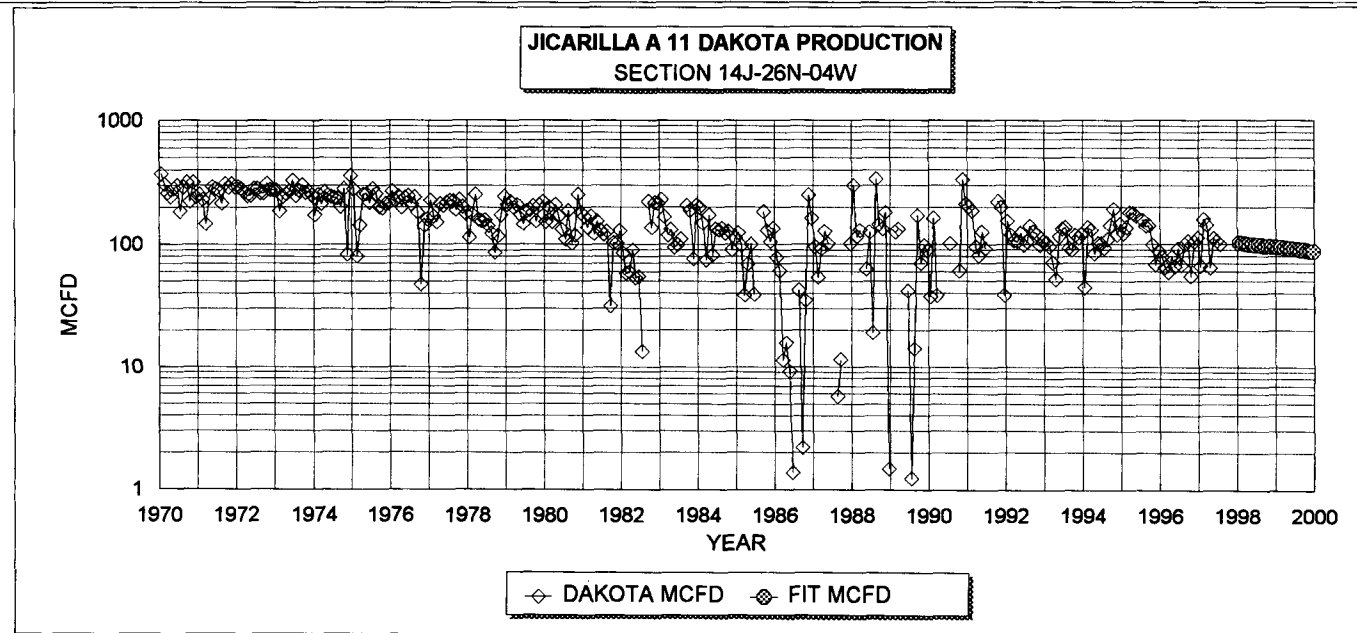
TELEPHONE NO.

(915)

686-5798



GALLUP HISTORICAL DATA:		1ST PROD: 12/68	PROJECTED DATA	
OIL CUM:	12.65	MBO	7/1/98 Q1:	67 MCFD
GAS CUM:	1833.0	MMCF	DECLINE RATE:	8.0% (EXPONENTIAL)
OIL YIELD:	0.0069	BBL/MCF		



DAKOTA HISTORICAL DATA		1ST PROD: 12/68	DAKOTA PROJECTED DATA	
OIL CUM:	33.7	MBO	7/1/98 Q1:	98 MCFD
GAS CUM:	1658.0	MMCF	DECLINE RATE:	8.0% (EXPONENTIAL)
OIL YIELD:	0.0203	BBL/MCF		

FIXED COMMINGLE ALLOCATION FACTORS:		
	GAS	OIL
CHACRA	40%	19%
DAKOTA	60%	81%

GAS ALLOCATION BASED ON PROJECTED 1997 RATES
OIL ALLOCATION BASED ON WEIGHTED CUM OIL YIELDS
NOTE: ALL PRODUCTION DATA FROM DWIGHTS ENERGYDATA

JICARILLA A 11: GALLUP AND DAKOTA FORECAST FOR SUBTRACTION COMMINGLE WITH MESAVERDE
14J-26N-04W

(6-12/97 AVG)

YEAR	GALLUP MCFD	DAKOTA MCFD	TOTAL MCFD
1998	65	95	160
1998	61	90	152
1999	56	83	140
2000	52	77	128
2001	48	70	118
2002	44	65	109
2003	40	60	100
2004	37	55	92
2005	34	50	85
2006	31	46	78
2007	29	43	72
2008	27	39	66
2009	25	36	61
2010	23	33	56
2011	21	31	51
2012	19	28	47
2013	18	26	43
2014	16	24	40
2015	15	22	37
2016	14	20	34
2017	13	19	31
2018	12	17	29
2019	11	16	26
2020	10	14	24
2021	9	13	22
2022	8	12	21
2023	8	11	19
2024	7	10	17
2025	6	10	16
2026	6	9	15
2027	5	8	14
2028	5	7	12
2029	5	7	11
2030	4	6	11

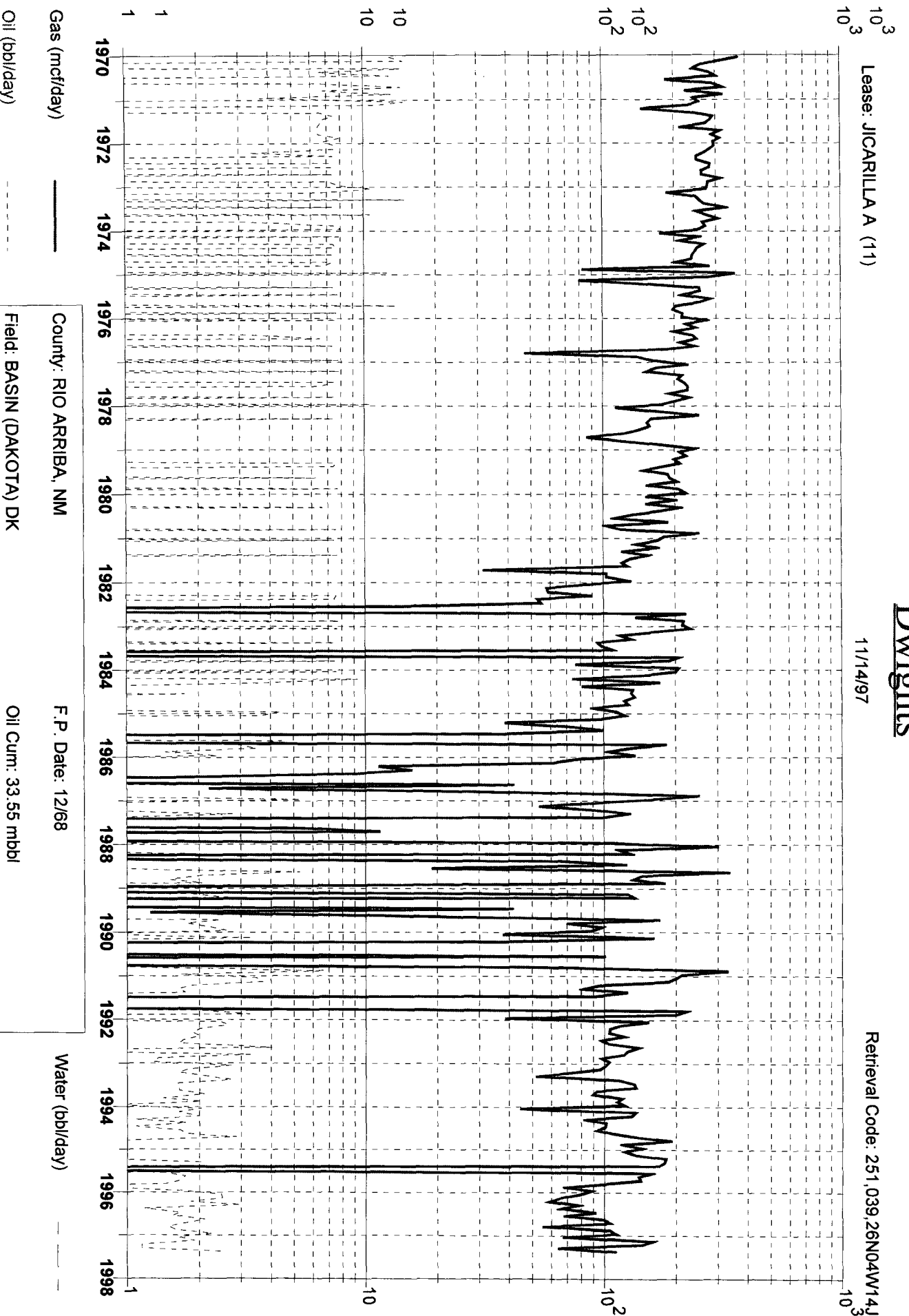
GALLUP OIL; BOPD	DAKOTA OIL; BOPD	TOTAL OIL; BOPD
0.4	1.9	2.4
0.0	1.8	1.8
0.0	1.7	1.7
0.0	1.6	1.6
0.0	1.4	1.4
0.0	1.3	1.3
0.0	1.2	1.2
0.0	1.1	1.1
0.0	1.0	1.0
0.0	0.9	0.9
0.0	0.9	0.9
0.0	0.8	0.8
0.0	0.7	0.7
0.0	0.7	0.7
0.0	0.6	0.6
0.0	0.6	0.6
0.0	0.5	0.5
0.0	0.5	0.5
0.0	0.4	0.4
0.0	0.4	0.4
0.0	0.4	0.4
0.0	0.3	0.3
0.0	0.3	0.3
0.0	0.3	0.3
0.0	0.2	0.2
0.0	0.2	0.2
0.0	0.2	0.2
0.0	0.2	0.2
0.0	0.2	0.2
0.0	0.2	0.2
0.0	0.1	0.1
0.0	0.1	0.1

Dwights

Lease: JICARILLA A (11)

11/14/97

Retrieval Code: 251,039,26N04W14,00DK



County: RIO ARRIBA, NM

Field: BASIN (DAKOTA) DK

Reservoir: DAKOTA

Operator: CONOCO INC

F.P. Date: 12/68

Oil Cum: 33.55 mbbl

Gas Cum: 1652 mmcf

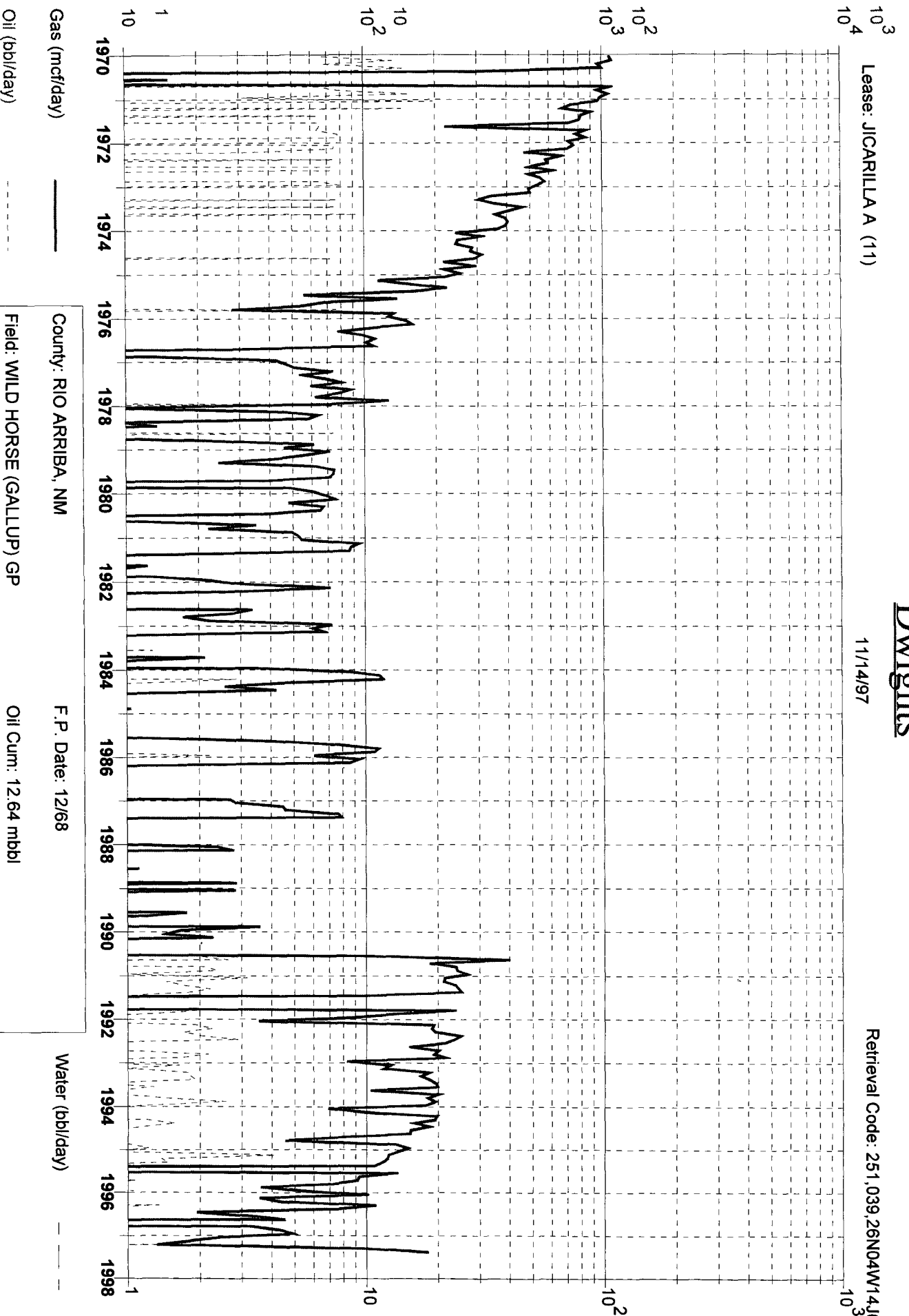
Location: 14J 26N 4W

Dwights

Lease: JICARILLA A (11)

11/14/97

Retrieval Code: 251,039,26N04W/14J00GP



Gas (mcf/day)

Oil (bbl/day)

County: RIO ARRIBA, NM

Field: WILD HORSE (GALLUP) GP

Reservoir: GALLUP

Operator: CONOCO INC

F.P. Date: 12/68

Oil Cum: 12.64 mbbl

Gas Cum: 1826 mmcf

Location: 14J 26N 4W

Water (bbl/day)

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

Form C-102
Supersedes C-128
Effective 1-1-65

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

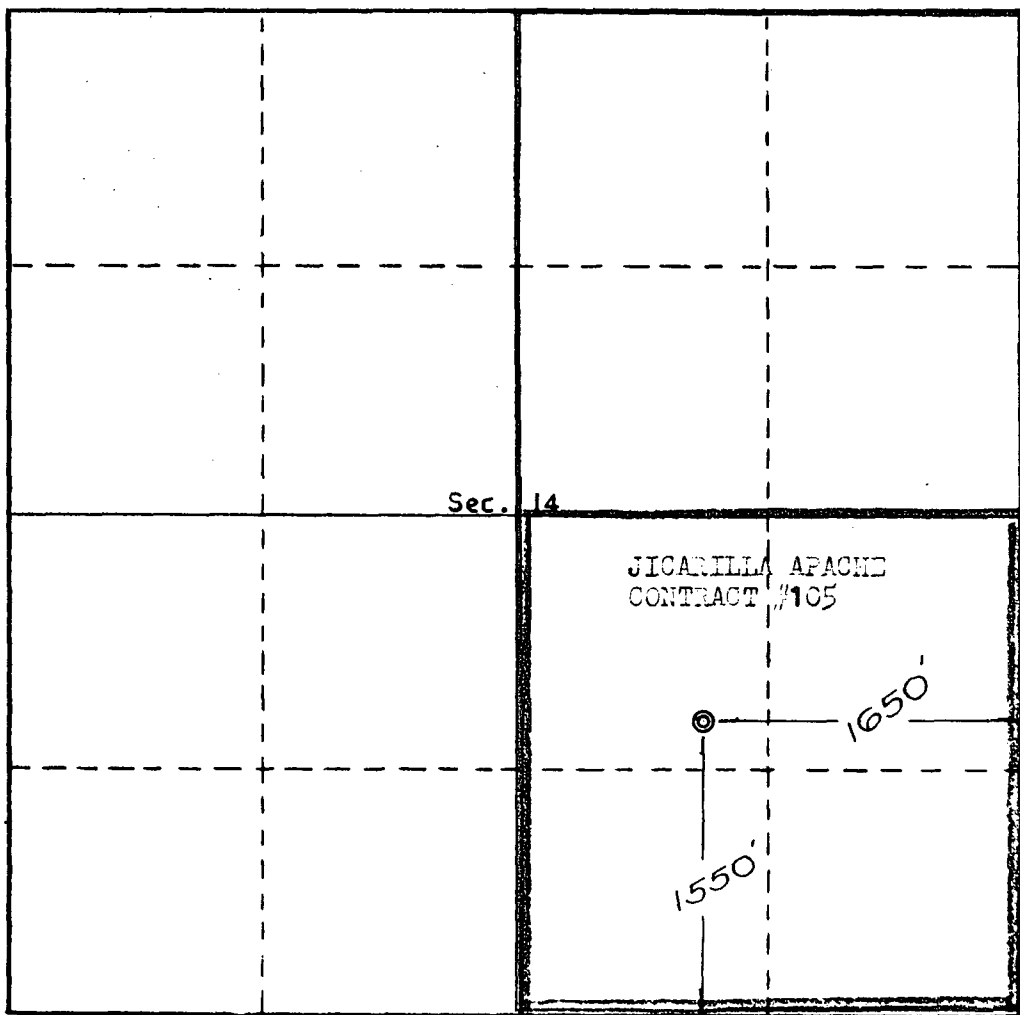
Operator SOUTHERN UNION PRODUCTION COMPANY			Lease JICARILLA		A		Well No. 11	
Unit Letter J	Section 14	Township 26 North	Range 4 West	County Rio Arriba				
Actual Footage Location of Well;								
1550		feet from the South		line and		1650		feet from the East
Ground Level Elev. 7134	Producing Formation Dakota		Pool Basin Dakota		Dedicated Acreage: 2/2 320			
	Pictured Cliffs		Tepicito Pictured Cliffs		SE/4 160		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. _____ Dedicated Dakota Acreage _____ Dedicated Pictured Cliffs Acreage



CERTIFICATION

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

B. R. Vanderslice
Name

B. R. Vanderslice

Position

Area Superintendent

Company

Southern Union Production Co.

Date

July 16, 1968

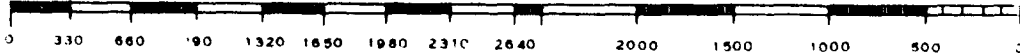
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

March 21, 1955

Registered Professional Engineer
and/or Land Surveyor

E. H. Eankerk
Certificate No. **3602**



District I
PO Box 1980, Hobbs, NM 88241-1980

State of New Mexico
Energy, Minerals & Natural Resources Department

Revised February 21, 1994
instructions on back

District II
PO Drawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

District III
1000 Rio Brazos Rd. Aztec, NM 87410

PO Box 2088

Santa Fe, NM 87504-2088

District IV
PO Box 2088, Santa Fe, NM 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-20122		2 Pool Code 72319	3 Pool Name Blanco Mesaverde
4 Property Code 18018	5 Property Name Jicarilla A		6 Well Number #11
7 OGRID No. 005073	8 Operator Name Conoco Inc., 10 Desta Drive, Ste. 100W, Midland, TX 79705-4500		9 Elevation 7134' GL

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	14	26N	4W		1550	South	1650	East	Rio Arriba

11 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

12 Dedicated Acres 320	13 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				17 OPERATOR CERTIFICATION	
				I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief	
				Signature 	
				Printed Name Kay Maddox Title Regulatory Agent Date Feb 3, '98	
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.					
Date of Survey					
Signature and Seal of Professional Surveyor.					
Certificate Number					

**Conoco, Inc.
Jicarilla A #11
Section 14, T-25-N, R-4-W, J
Rio Arriba County, New Mexico**

Re: Application for Downhole Commingling

Offset Operators:

Burlington Resources Oil & Gas
PO Box 4289
Farmington, New Mexico 87499

Amoco Production Co.
PO Box 800
Denver, Co. 80201

Chateau Oil & Gas Inc.
2515 McKinney Ave Ste 840
Dallas, TX 75201