

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 87505-6429Form C-107-A
New 3-12-96

APPROVAL PROCESS :

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☒ YES ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING

BURLINGTON RESOURCES OIL & GAS COMPANY

PO Box 4289, Farmington, NM 87499

Operator

Address

Jicarilla 150

1

L, Sec. 1, T26N, R05W

Rio Arriba

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 16344 API NO. 30-039-06669 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 Mesa Verde-72319		Basin Dakota-71599
2. Top and Bottom of Pay Section (Perforations)	5116'-5650'		7660'-7858'
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	(Current) a. 534 psia @ 5383' (Original) b. 1153 psia @ 5383'	a. b.	a. 570 psia @ 7759' b. 3114 psia @ 7759'
6. Oil Gravity (°API) or Gas BTU Content	1171 Btu		1167 Btu
7. Producing or Shut-In?	Producing		Producing
Production Marginal? (yes or no)	Yes		Yes
* If Shut-In 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, give data and oil/gas/water of recent test (within 60 days)	Date: 9/24/98 Rates: 8 MCFD, 0 BOD, 0 BWD	Date: Rates:	Date: 9/24/98 Rates: 172 MCFD, 0 BOD, 0 BWD
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: Gas: Will supply after commingling	Oil: Gas: Will supply after commingling	Oil: Gas: Will supply after commingling

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 ☐ No11. 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 ☐ No13. 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 Kevin L. Midkiff TITLE Operations Engineer DATE 10-28-98TYPE OR PRINT NAME Kevin L. Midkiff TELEPHONE NO. (505) 326-9700

NE. MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

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

Revised Acreage Plat

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

Operator Southern Union Production Company			Lease Jicarilla "Q" 150		Well No. 1
Unit Letter L	Section 1	Township 26 North	Range 5 West	County Rio Arriba	
Actual Footage Location of Well: 1665 feet from the South line and 890 feet from the West line					
Ground Level Elev. 6734 ft.	Producing Formation Dakota Mesaverde		Pool Basin Dakota Blanco Mesaverde	Dedicated Acreage: W/2 319.88 Acres	

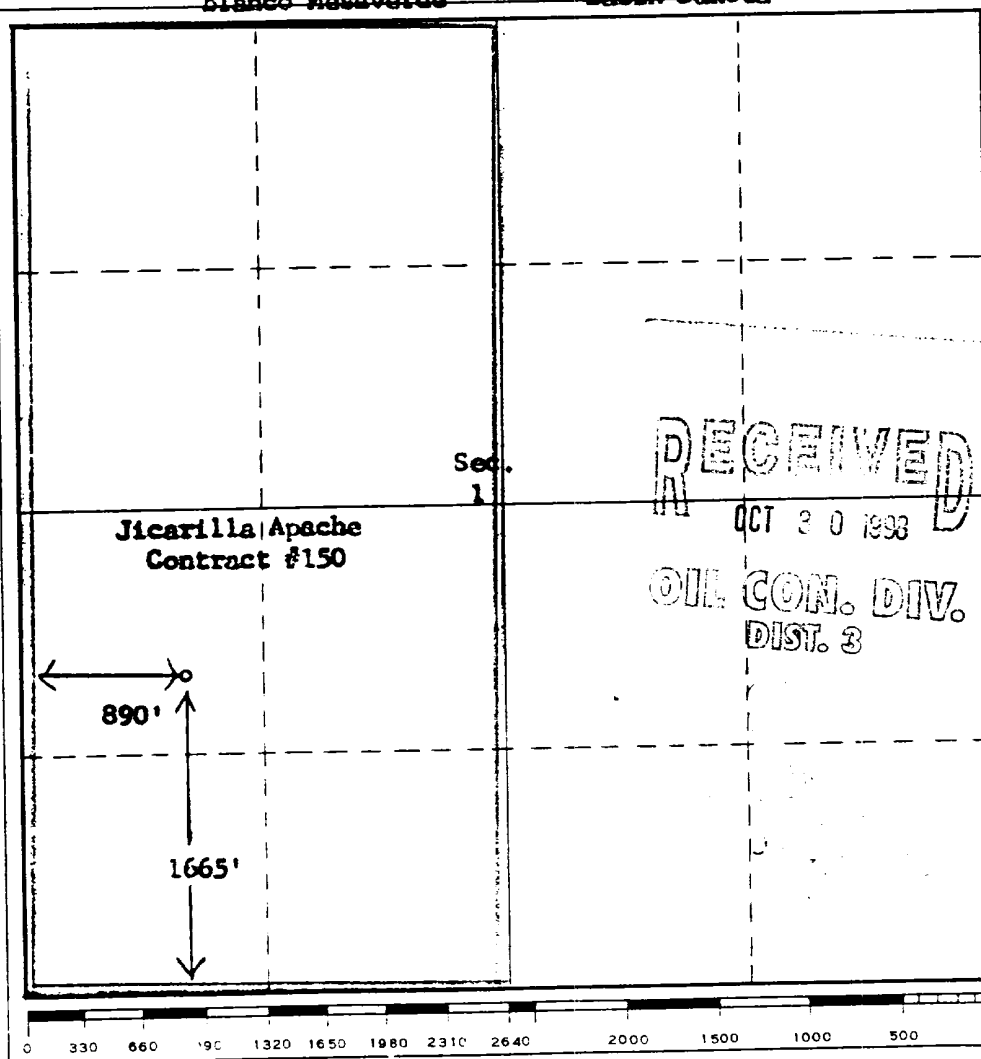
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is 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.

Blanco Mesaverde Basin Dakota



CERTIFICATION

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

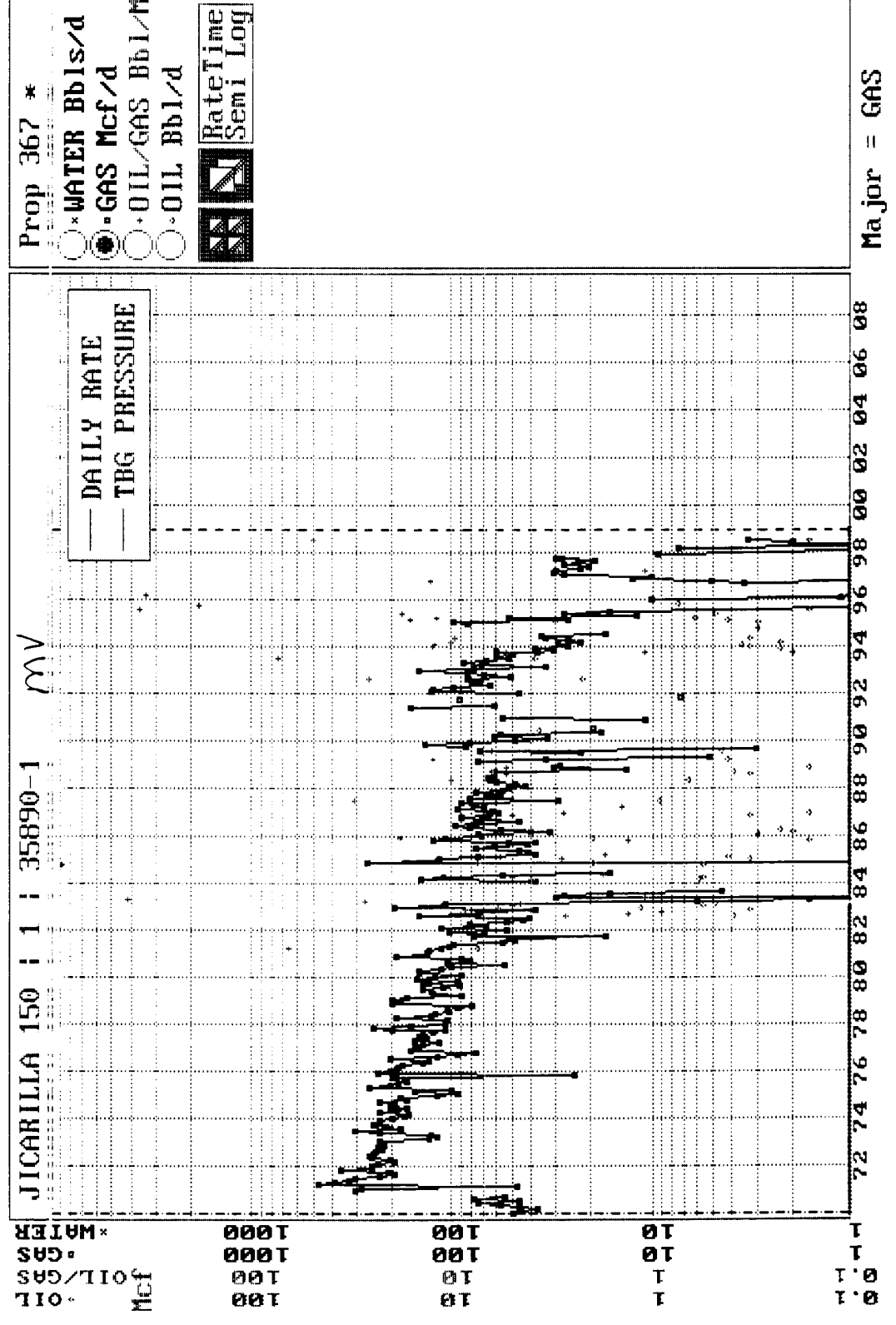
Original signed by
GILBERT D. NOLAND, JR.

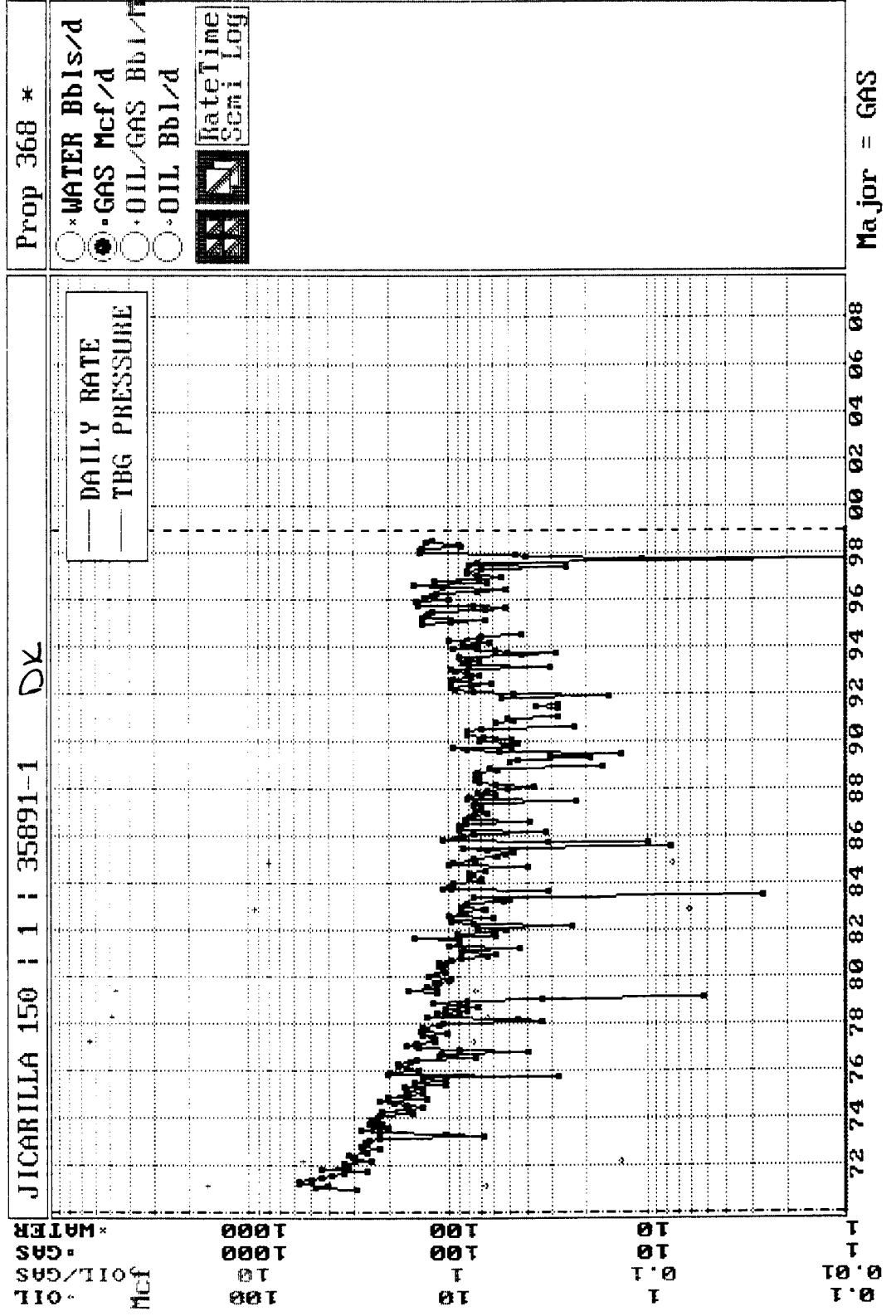
Name
Gilbert D. Noland, Jr.
Position
Drilling Superintendent
Company
Southern Union Production
Date
December 9, 1970

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 17, 1954
Registered Professional Engineer and/or Land Surveyor

Certificate No.





Page No.: 1

Print Time: Tue Oct 06 07:13:57 1998 *Mesa Verde*

Property ID: 367

Property Name: JICARILLA 150 | 1 | 35890-1

Table Name: S:\ARIES\KLMWORK\TEST.DBF

--DATE--	---CUM GAS--	M SIWHP
	Mcf	Psi

09/02/54	0	<u>986.0</u>	Initial
10/23/70	195660	946.0	
09/26/71	280121	709.0	
04/17/72	332388	554.0	
05/17/73	416327	591.0	
06/02/74	501279	496.0	
05/03/76	623253	444.0	
05/18/78	723831	458.0	
07/25/80	822458	505.0	
04/09/82	880912	405.0	
05/02/84	921297	564.0	
04/23/86	965676	567.0	
11/29/89	1039621	603.0	
05/01/91	1056352	671.0	
05/15/91	1056357	659.0	
06/01/93	1105113	472.0	

08/31/98	1139050	456	Based on Pressure vs. Cum Gas Curve
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Page No.: 2

Print Time: Tue Oct 06 07:13:57 1998 **Dakota**

Property ID: 368

Property Name: JICARILLA 150 | 1 | 35891-1

Table Name: S:\ARIES\KLMWORK\TEST.DEF

<u>--DATE--</u>	<u>---CUM GAS---</u>	<u>M SIWHP</u>
	<u>Mcf</u>	<u>Psi</u>

10/15/70	0	<u>2507.0</u>	Initial
10/25/71	139024	<u>1275.0</u>	
03/17/72	190095	1164.0	
05/17/73	293069	1232.0	
05/03/75	433624	1041.0	
04/17/77	527082	920.0	
06/01/79	604068	939.0	
09/25/81	686093	689.0	
04/17/83	729354	866.0	
07/03/85	782737	671.0	
01/13/88	843403	632.0	
09/03/92	929041	522.0	

08/31/98	1103807	475	Based on Pressure vs. Cum Gas Curve
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Jicarilla 150 #1
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method

Version 1.0 3/13/94

Mesaverde		Dakota	
<u>MV-Current</u>		<u>DK-Current</u>	
GAS GRAVITY	0.688	GAS GRAVITY	0.687
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.47	%N2	0.61
%CO2	0.9	%CO2	0.89
%H2S	0	%H2S	0
DIAMETER (IN)	4.408	DIAMETER (IN)	4.408
DEPTH (FT)	5383	DEPTH (FT)	7759
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	159	BOTTOMHOLE TEMPERATURE (DEG F)	202
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	468	SURFACE PRESSURE (PSIA)	475
BOTTOMHOLE PRESSURE (PSIA)	534.2	BOTTOMHOLE PRESSURE (PSIA)	570.3
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.688	GAS GRAVITY	0.687
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.47	%N2	0.61
%CO2	0.9	%CO2	0.89
%H2S	0	%H2S	0
DIAMETER (IN)	4.408	DIAMETER (IN)	4.408
DEPTH (FT)	5383	DEPTH (FT)	7759
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	159	BOTTOMHOLE TEMPERATURE (DEG F)	202
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	998	SURFACE PRESSURE (PSIA)	2519
BOTTOMHOLE PRESSURE (PSIA)	1153.3	BOTTOMHOLE PRESSURE (PSIA)	3114.3

FARMINGTON

ANNUAL PRODUCTION FOR 35890

PHS020M1

JICARILLA 150 1

BLANCO MESAVERDE (PRORATED GAS FIELD MESAVERDE ZONE

===== OIL CUM =====

===== GAS CUM =====

===== WATER CUM =====

PC DATE BBLs

PC DATE

MCF

DATE

BBLs

02 6912

01 6912

180788

YEAR	OIL	OIL CUM	GAS	GAS CUM	WATER	WATER CUM
1990	112	790	9275	1051372		53
1991		790	9899	1061271		53
1992	67	857	31984	1093255		53
1993	132	989	20248	1113503		53
1994	47	1036	8368	1121871		53
1995	86	1122	7129	1129000		53
1996	5	1127	1313	1130313		53
1997	1	1128	8210	1138523		53
1998	5	1133	527	1139050		53

POSITION CURSOR BY YEAR AND PRESS ENTER TO DISPLAY MONTHLY PRODUCTION

ENTER - CONTINUES ANNUAL DISPLAY

PF3 - TRANSFER TO UPDATE

PF6 - RETURN TO WELL-INFO DISPLAY

PF9 - ANNUAL INJECTION DISPLAY

PF10 - HELP INFORMATION

00/00/00 00:00:00:0 D03 10/26/84

FARMINGTON
JICARILLA 150

1

1998 MONTHLY PRODUCTION FOR 35890

PHS030M1

BLANCO MESAVERDE (PRORATED GAS FIELD

MESAVERDE ZONE

DAYS =====					OIL =====			=====			GAS =====			
MO	T	S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	WATER	PROD	C
1	2	F	31	02			01	18	31	1196	15.025			
2	2	F	28	02			01		28		15.025			
3	2	F	31	02			01	227	31	1171	15.025			
4	2	F	30	02		42.5	01	2	30	1171	15.025			
5	2	F	31	02			01	62	31	1171	15.025			
6	2	F	30	02			01	61	30	1171	15.025			
7	2	F	26	02		5	01	101	26	1171	15.025			
8	2	F	31	02			01	56	31	1171	15.025			
9														
10														
11														
12														

PF6 - RETURNS TO ANNUAL DISPLAY
PF10 - HELP INFORMATION

PF3 - TRANSFER TO UPDATE
PF9 - DISPLAY MONTHLY INJECTION
PRS 10/03/98

00/00/00 00:00:00:0

FARMINGTON

ANNUAL PRODUCTION FOR 35891

PHS020M1

JICARILLA 150 1

BASIN DAKOTA (PRORATED GAS) FIELD

DAKOTA ZONE

===== OIL CUM =====

===== GAS CUM =====

===== WATER CUM =====

PC DATE BBLs

PC DATE

MCF

DATE

BBLs

02 6912

01 6912

YEAR	OIL	OIL CUM	GAS	GAS CUM	WATER	WATER CUM
1990		934	20758	901052		25
1991		934	5814	906866		25
1992		934	29725	936591		25
1993		934	24770	961361		25
1994		934	19611	980972		25
1995		934	39922	1020894		25
1996		934	35438	1056332		25
1997		934	17765	1074097		25
1998		934	29710	1103807		25

POSITION CURSOR BY YEAR AND PRESS ENTER TO DISPLAY MONTHLY PRODUCTION

ENTER - CONTINUES ANNUAL DISPLAY

PF3 - TRANSFER TO UPDATE

PF6 - RETURN TO WELL-INFO DISPLAY

PF9 - ANNUAL INJECTION DISPLAY

PF10 - HELP INFORMATION

00/00/00 00:00:00:0

D03 10/26/84

FARMINGTON
JICARILLA 150

1998 MONTHLY PRODUCTION FOR 35891

PHS030M1

BASIN DAKOTA (PRORATED GAS) FIELD

DAKOTA ZONE

DAYS =====			CIL =====			=====			GAS =====					
MO	T	S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	WATER	PROD	C
1	2	F					01	4319	31	1164	15.025			
2	2	F					01	4292	28	1164	15.025			
3	2	F					01	4176	31	1167	15.025			
4	2	F					01	2652	30	1167	15.025			
5	2	F					01	2704	31	1167	15.025			
6	2	F					01	4027	30	1167	15.025			
7	2	F					01	3742	26	1167	15.025			
8	2	F					01	3798	31	1167	15.025			
9														
10														
11														
12														

PF6 - RETURNS TO ANNUAL DISPLAY
PF10 - HELP INFORMATION

PF3 - TRANSFER TO UPDATE
PF9 - DISPLAY MONTHLY INJECTION
PRS 10/03/98

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BURLINGTON RESOURCES OIL AND GAS COMPANY

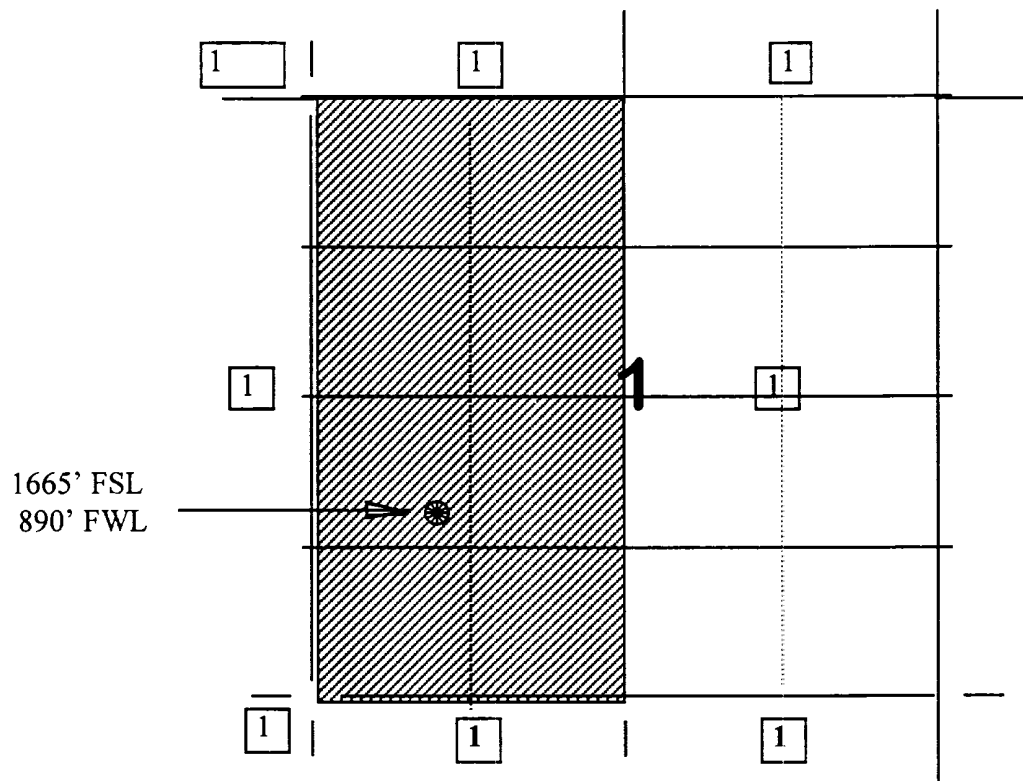
Jicarilla 150 #1

OFFSET OPERATOR/OWNER PLAT

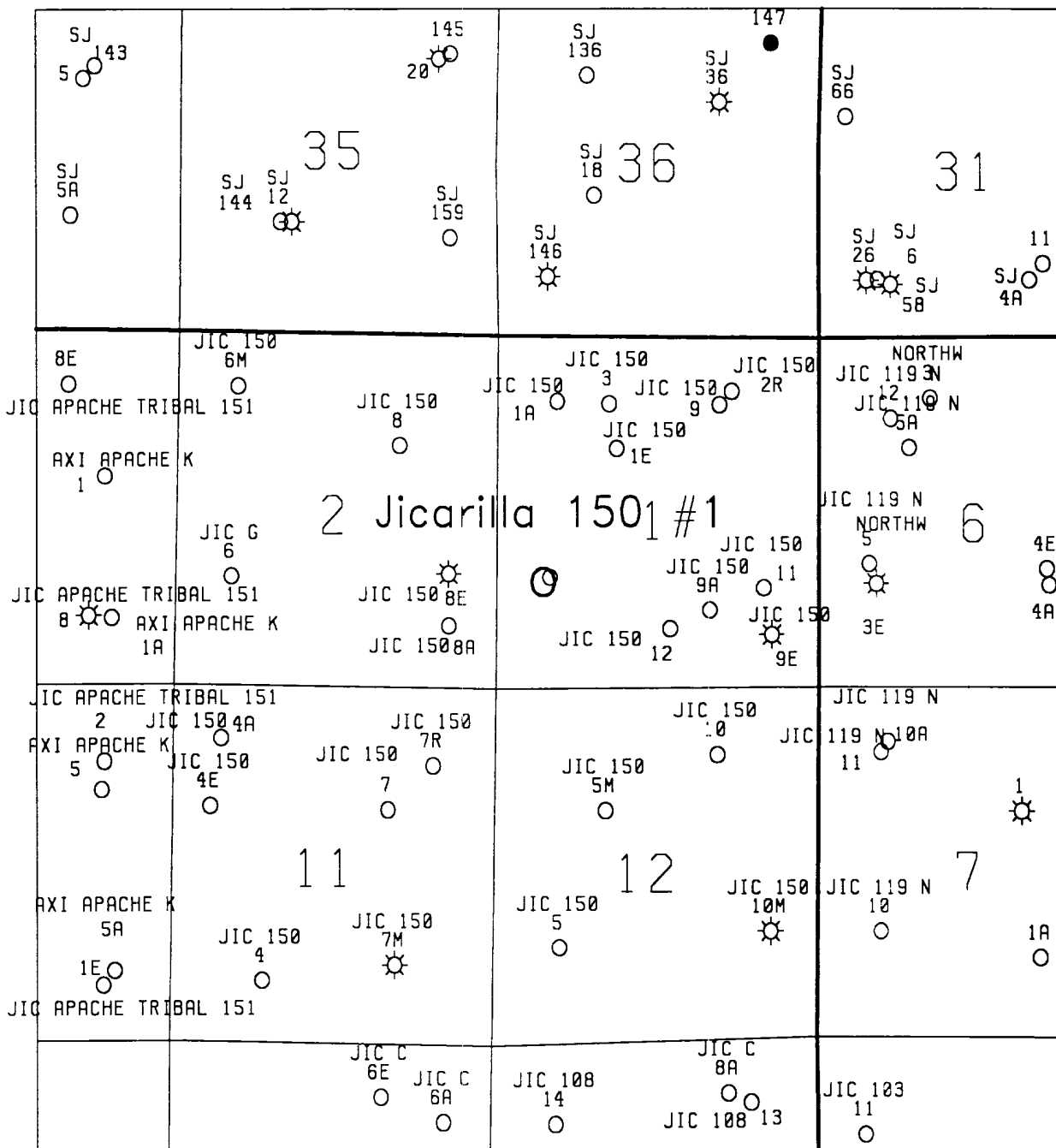
Mesaverde/Dakota Formations

Commingle well

Township 26 North, Range 5W West



1) Burlington Resources



Jicarilla 150 #1
Sec 1 T26N, R5W
Mesaverde/Dakota