

DISTRICT I

1625 N. French Dr., Hobbs, NM 88240

DISTRICT II

811 South First St., Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410

DISTRICT IV

2040 S. Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department
OIL CONSERVATION DIVISION2040 S. Pacheco
Santa Fe, New Mexico 87505-6429

APPLICATION FOR DOWNHOLE COMMINGLING

Form C-107-A
Revised March 17, 1999

APPROVAL PROCESS:

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☒ YES ☐ NOBURLINGTON RESOURCES OIL & GAS COMPANY
OperatorPO Box 4289, Farmington, NM 87499
Address

Jicarilla 153

Lease

25

Well No.

A, Sec 36, T26N, R5W

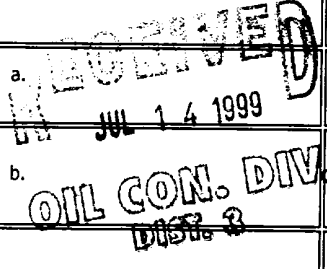
Unit Ltr. - Sec - Twp - Rge

Rio Arriba

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 16579 API NO. 30-039-2242100 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		Lindrith Gallup Dakota, West 39189
2. Top and Bottom of Pay Section (Perforations)	4841' - 5362'		7325' - 7497'
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	(Current) a. 249 psia @ 5102' (Original) b. 1569 psia @ 5102'	 a. b.	a. 564 psia @ 7411' b. 1790 psia @ 7411'
6. Oil Gravity (EAPI) or Gas BTU Content	1173 BTU		1217 BTU
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, give date and oil/gas/water rates of recent test (within 60 days)	Date: 04/30/99 Rates: 7 MCFD 0 BOD, 0 BWD	Date: Rates:	Date: 05/31/99 Rates: 125 MCFD, 0.5 BOD, 0 BWD
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: Gas: Will supply for commingling	Oil: % Gas: %	Oil: Gas: Will supply for 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 ☐ 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 other? ☒ 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.

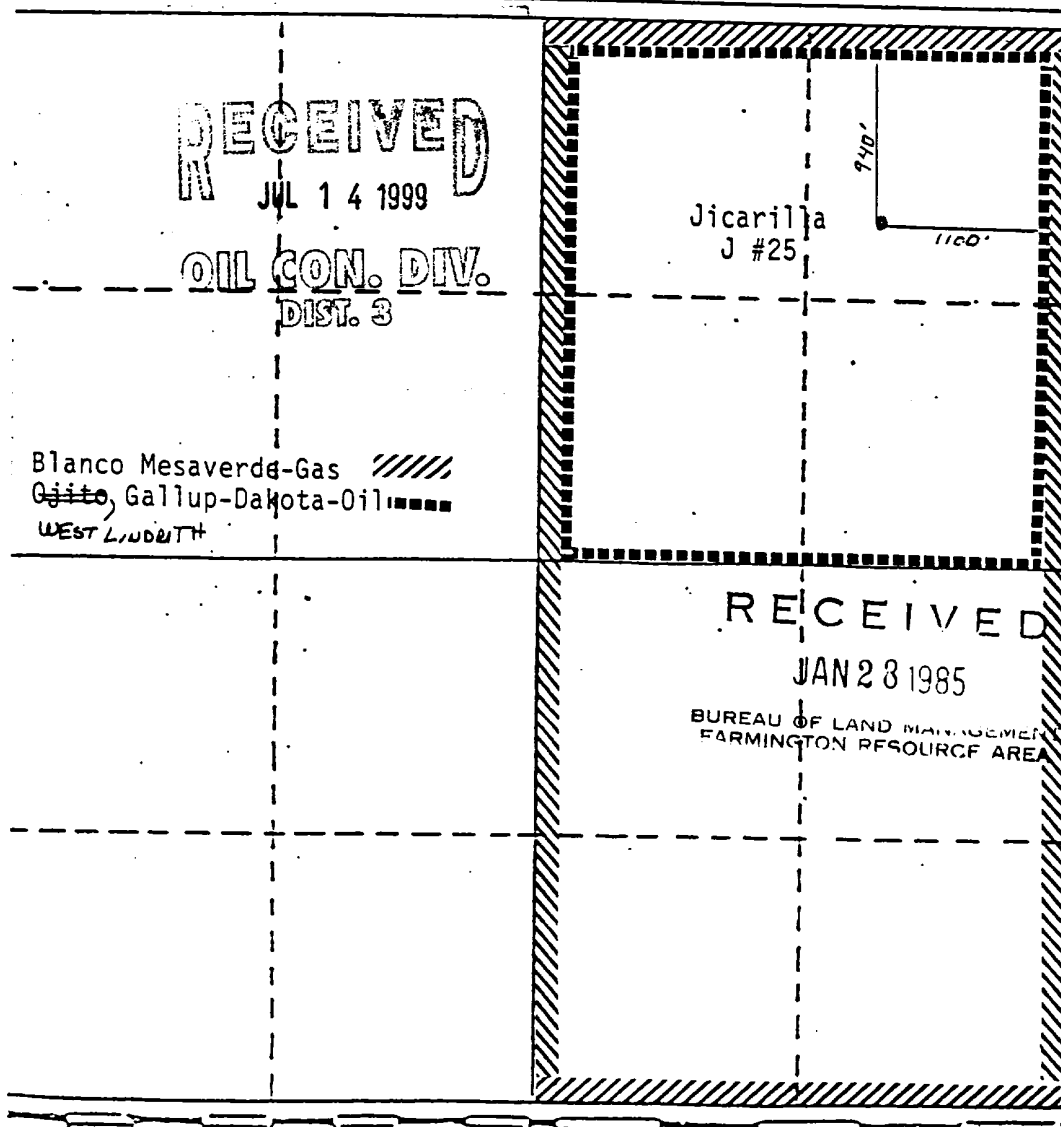
SIGNATURE Timothy J. Friesenhahn TITLE Operations Engineer DATE 07-06-99TYPE OR PRINT NAME Timothy J. Friesenhahn TELEPHONE NO. (505) 326-9700

Union Texas Petroleum Corporation			Lease Jicarilla #25		Well No. 25
Well Letter A	Section 36	Township 26 N	Range 5 W	County Rio Arriba	
Civil Footage Location of Well: 940 feet from the North line and 1100 feet from the East line					
Sound Level Elev. 6663	Producing Formation Mesaverde Dakota	Pool Blanco	Dedicated Acreage: E/2 320.00 NE/4 160.00		

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 well 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 of this form if necessary.) Union Texas Exploration

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 Director.



CERTIFICATION

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

Rudy D. Motto
Name

Rudy D. Motto

Position
Area Operations Manager

Company
Union Texas Petroleum

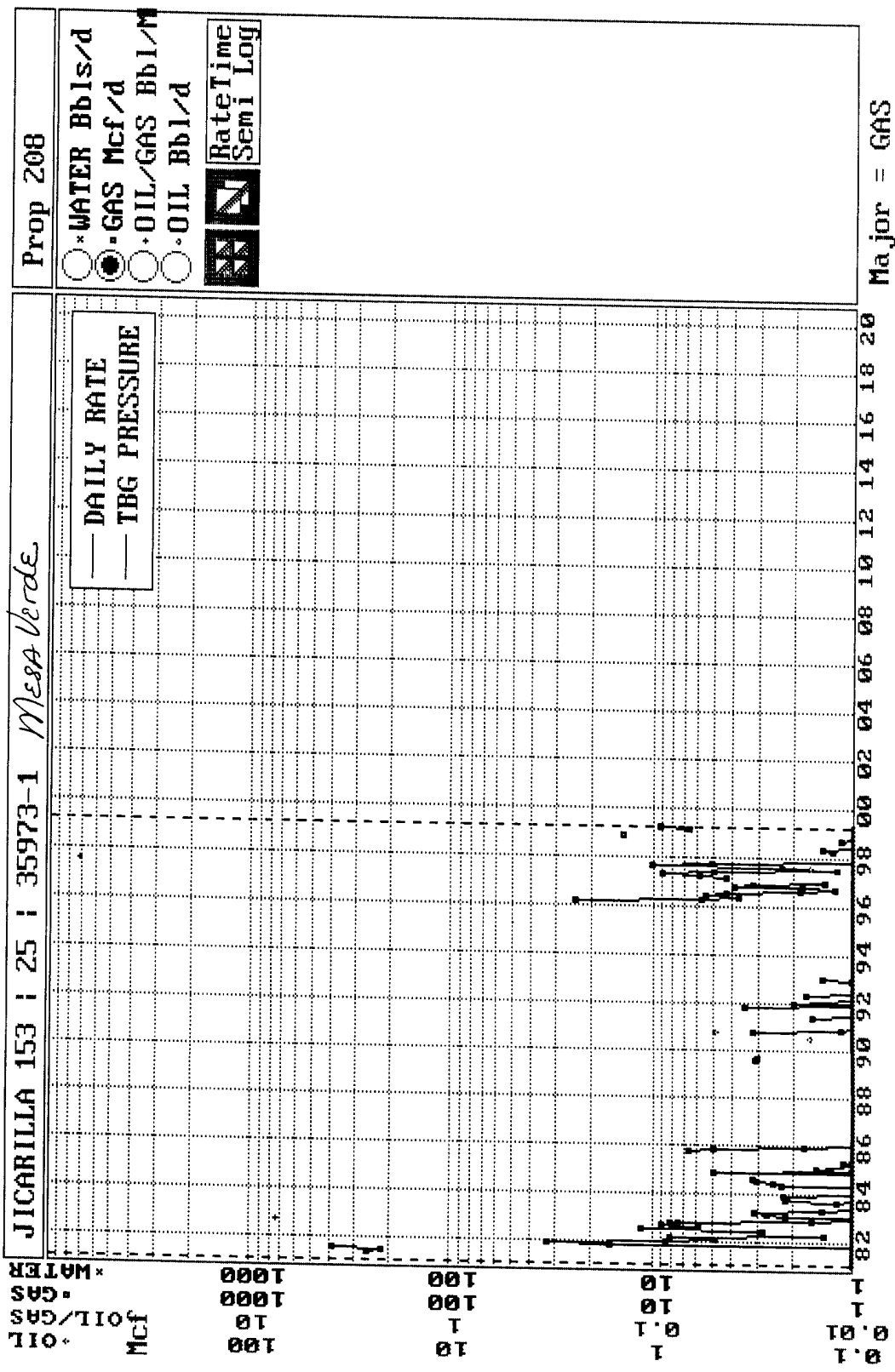
Date
January 25, 1985

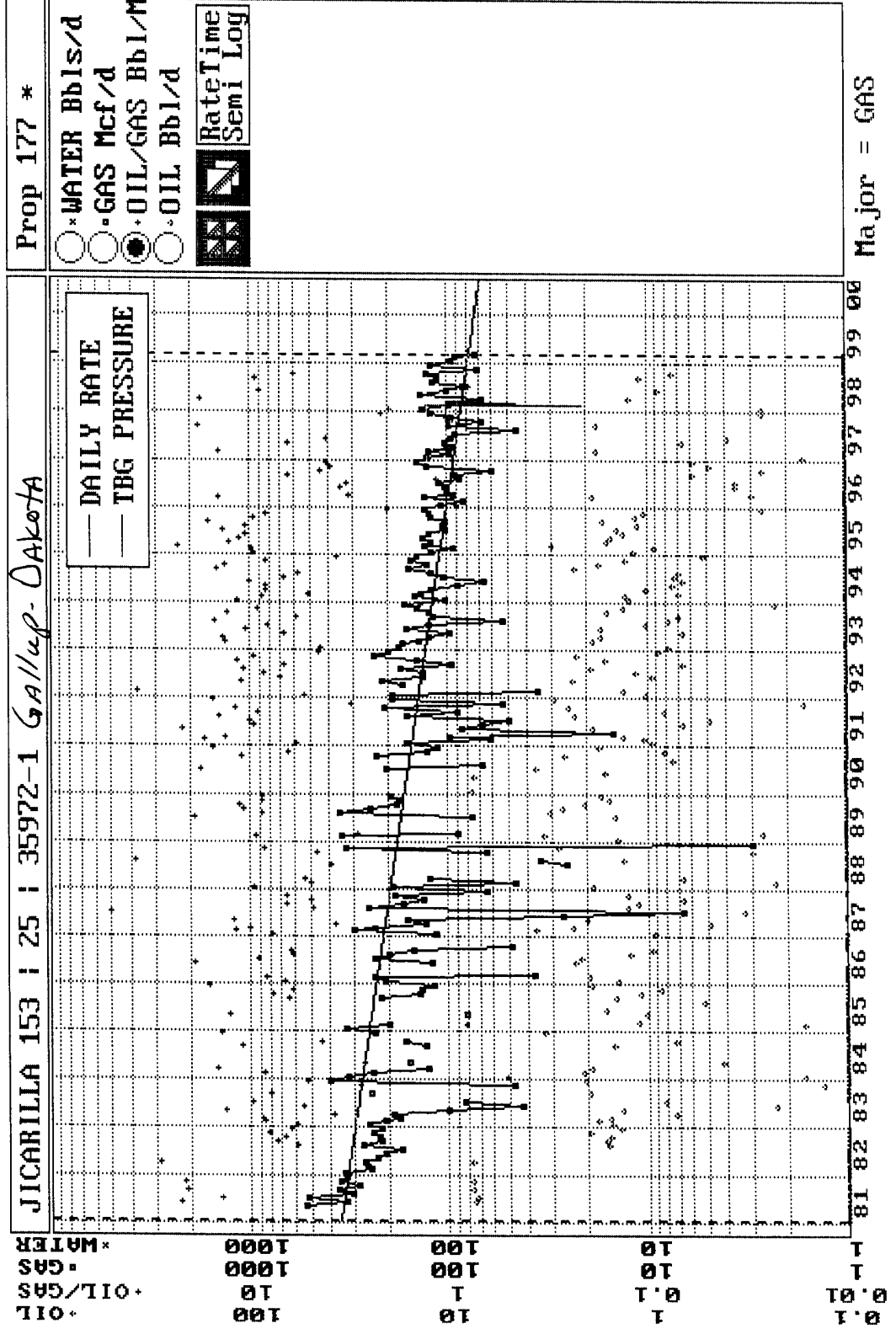
I hereby certify that the well is shown on this plat was planned from notes of a survey made by me or under my supervision, and that the information is correct to the best of my knowledge and belief.

Date Surveyed

Registered Professional Engineer and/or Land Surveyor

Certificate No.





Page No.: 2

Print Time: Mon May 10 09:09:48 1999

Offset well for Jicarilla 153 #25

Property ID: 174

Property Name: JICARILLA 153 | 12 | 35954-1 DK

Table Name: S:\JSMITH\ARIES\99WORK\TEST.DBF

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

08/08/68	0	1427.0	ORIGINAL
06/24/70	232872	1003.0	
04/17/71	339036	1021.0	
04/17/72	451369	853.0	
06/02/73	547004	986.0	
05/02/75	714030	851.0	
05/02/77	862687	616.0	
07/01/79	992237	644.0	
05/31/81	1090557	516.0	
06/08/83	1154841	494.0	
11/05/85	1226500	629.0	
05/18/88	1296271	569.0	
10/11/90	1325257	703.0	
03/29/92	1345851	576.0	
3/31/99	1524223	466	CURRENT

BASED ON Cum GAS vs PRESSURE CURVE

Page No.: 1

Print Time: Mon May 10 09:46:42 1999

Property ID: 176

Property Name: JICARILLA 153 | 22 | 36020-1 *Mesa Verde*

Table Name: S:\JSMITH\ARIES\99WORK\TEST.DBF

Offset well for Jicarilla 153#25

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

10/26/82	0	1337.0
04/24/83	35674	862.0
07/24/84	78264	889.0
05/28/85	137813	749.0
04/01/86	200480	794.0
11/29/89	360122	758.0
05/15/91	414667	609.0
05/29/91	414667	621.0
08/31/93	513862	560.0

Original

3/31/99	741973	219
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CURRENT

BASED ON PRESSURE vs GAS Cum CURVE

Jicarilla 153 #25
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 3/13/94

Mesaverde		Gallup/Dakota	
<u>MV-Current</u>		<u>GL/DK-Original</u>	
GAS GRAVITY	0.706	GAS GRAVITY	0.713
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.84	%N2	0.52
%CO2	0.15	%CO2	0.74
%H2S	0	%H2S	0
DIAMETER (IN)	4.09	DIAMETER (IN)	4.09
DEPTH (FT)	5102	DEPTH (FT)	7411
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	127	BOTTOMHOLE TEMPERATURE (DEG F)	158
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	219	SURFACE PRESSURE (PSIA)	466
BOTTOMHOLE PRESSURE (PSIA)	248.8	BOTTOMHOLE PRESSURE (PSIA)	563.9
<u>MV-Original</u>		<u>GL/DK-Original</u>	
GAS GRAVITY	0.706	GAS GRAVITY	0.713
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.84	%N2	0.52
%CO2	0.15	%CO2	0.74
%H2S	0	%H2S	0
DIAMETER (IN)	4.09	DIAMETER (IN)	4.09
DEPTH (FT)	5102	DEPTH (FT)	7411
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	127	BOTTOMHOLE TEMPERATURE (DEG F)	158
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1337	SURFACE PRESSURE (PSIA)	1427
BOTTOMHOLE PRESSURE (PSIA)	1568.8	BOTTOMHOLE PRESSURE (PSIA)	1789.9

Cumulative Monthly Well Report

December 1998 -- June 1999

Select By : Completions
Sort By :

Page No : 1
Report Number : R_290
Last Update :
Print Date : 06/23/1999, 9:45:09

Completion		Date	Cur Oil	Cum Oil	Cur Gas	Cum Gas	Cur Wat	Cum Wat
JICARILLA 153	25 MV	12/31/1998	0.00	0.00	0.00	185.23	0.00	0.00
		01/31/1999	0.00	0.00	0.00	185.23	0.00	0.00
		02/28/1999	0.00	0.00	199.99	385.22	0.00	0.00
		03/31/1999	0.00	0.00	278.42	663.64	0.00	0.00
		04/30/1999	0.00	0.00	206.86	870.50	0.00	0.00
		05/31/1999	0.00	0.00	0.00	870.50	0.00	0.00
		06/30/1999	0.00	0.00	0.00	870.50	0.00	0.00
		12/31/1998	0.00	20.04	3,655.79	6,645.38	30.17	50.21
		01/31/1999	5.01	25.05	2,906.79	9,552.17	0.00	50.21
		02/28/1999	1.67	26.72	2,736.20	12,288.37	0.00	50.21
JICARILLA 153	25 DK	03/31/1999	0.00	26.72	2,168.57	14,456.94	0.00	50.21
		04/30/1999	8.35	35.07	2,814.63	17,271.57	0.00	50.21
		05/31/1999	15.86	50.93	3,866.56	21,138.13	0.00	50.21
		06/30/1999	0.00	50.93	0.00	21,138.13	0.00	50.21

FARMINGTON

ANNUAL PRODUCTION FOR 35972

PHS020M1

JICARILLA 153 25

LINDRITH GALLUP DAKOTA, WEST FIELD

GALLUP DAKOTA ZONE

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

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

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

PC DATE

BBLs

PC DATE

MCF

DATE

BBLs

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=====
YEAR      OIL      OIL CUM      GAS      GAS CUM      WATER      WATER CUM
1991      460      5109      38017     544185              188
1992      431      5540      52864     597049              188
1993      377      5917      49005     646054              188
1994      393      6310      45140     691194              188
1995      493      6803      43316     734510              188
1996      153      6956      37911     772421              188
1997      163      7119      35744     808165              188
1998      132      7251      34482     842647              188
=====
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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

FARMINGTON

1998 MONTHLY PRODUCTION FOR 35972

PHS030M1

JICARILLA 153 25

LINDRITH GALLUP DAKOTA, WEST FIELD

GALLUP DAKOTA ZONE

DAYS =====					OIL =====		=====		GAS =====						
MO	T	S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	WATER	PROD	C	
1	2	F	31	02	8		01	4053	31	1212	15.025				
2	2	S	25	02			01	3039	25	1223	15.025				
3	2	F	29	02	2		01	2407	29	1223	15.025				
4	2	F	27	02	37		01	2078	27	1223	15.025				
5	2	F	31	02			01	4142	31	1223	15.025				
6	2	F	30	02	27		01	3050	30	1223	15.025				
7	2	F	31	02	2		01	2542	31	1223	15.025				
8	2	F	31	02		42.5	01	3637	31	1223	15.025				
9	2	F	30	02	33		01	3492	30	1223	15.025				
10	2	F	31	02	23		01	3895	31	1223	15.025				
11	2	F					01	2147		1223	15.025				
12															

PF6 - RETURNS TO ANNUAL DISPLAY
 PF10 - HELP INFORMATION

PF3 - TRANSFER TO UPDATE
 PF9 - DISPLAY MONTHLY INJECTION
 PRS 01/06/99

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

FARMINGTON

ANNUAL PRODUCTION FOR 35973

PHS020M1

JICARILLA 153 25

BLANCO MESAVERDE (PRORATED GAS FIELD MESAVERDE ZONE

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

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

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

PC DATE

BBLs

PC DATE

MCF

DATE

BBLs

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=====
YEAR      OIL      OIL CUM      GAS      GAS CUM      WATER      WATER CUM
1991                      22      278      32498
1992                      22      123      32621
1993          1      23      43      32664
1994                      23      32664
1995                      23      32664
1996                      23      1744      34408
1997          5      28      1333      35741
1998                      28      586      36327
=====

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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

FARMINGTON

1998 MONTHLY PRODUCTION FOR 35973

PHS030M1

JICARILLA 153 25

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	17	31	1210	15.025			
2	2	S	25	02			01		25		15.025			
3	2	F	29	02			01	39	29	1210	15.025			
4	2	F	25	02			01	43	25	1210	15.025			
5	2	F	31	02			01	11	31	1210	15.025			
6	2	F	30	02			01	13	30	1210	15.025			
7	2	F	31	02			01	1	31	1210	15.025			
8	2	F	31	02			01	35	31	1210	15.025			
9	2	F	30	02			01		30		15.025			
10	2	F	31	02			01		31		15.025			
11	2	F					01	427		1210	15.025			
12														

PF6 - RETURNS TO ANNUAL DISPLAY

PF3 - TRANSFER TO UPDATE

PF10 - HELP INFORMATION

PF9 - DISPLAY MONTHLY INJECTION

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

PRS 01/06/99

BURLINGTON RESOURCES OIL AND GAS COMPANY

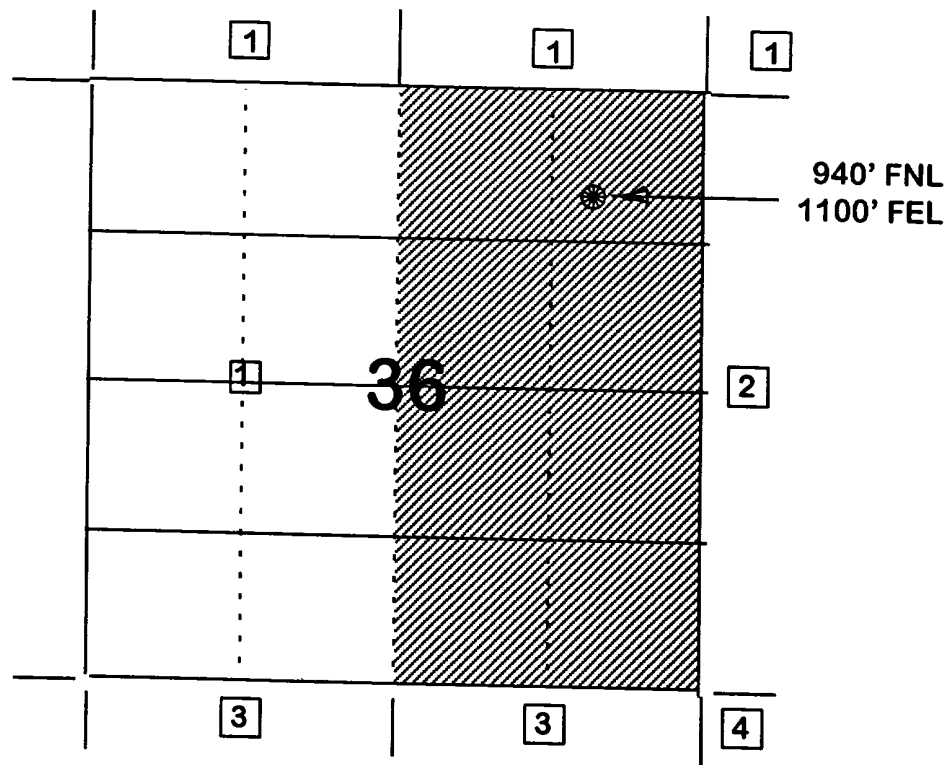
Jicarilla 153 #25

OFFSET OPERATOR \ OWNER PLAT

Mesaverde (E/2) & Gallup-Dakota (NE/4) Formations

Commingled well

Township 26 North, Range 5 West

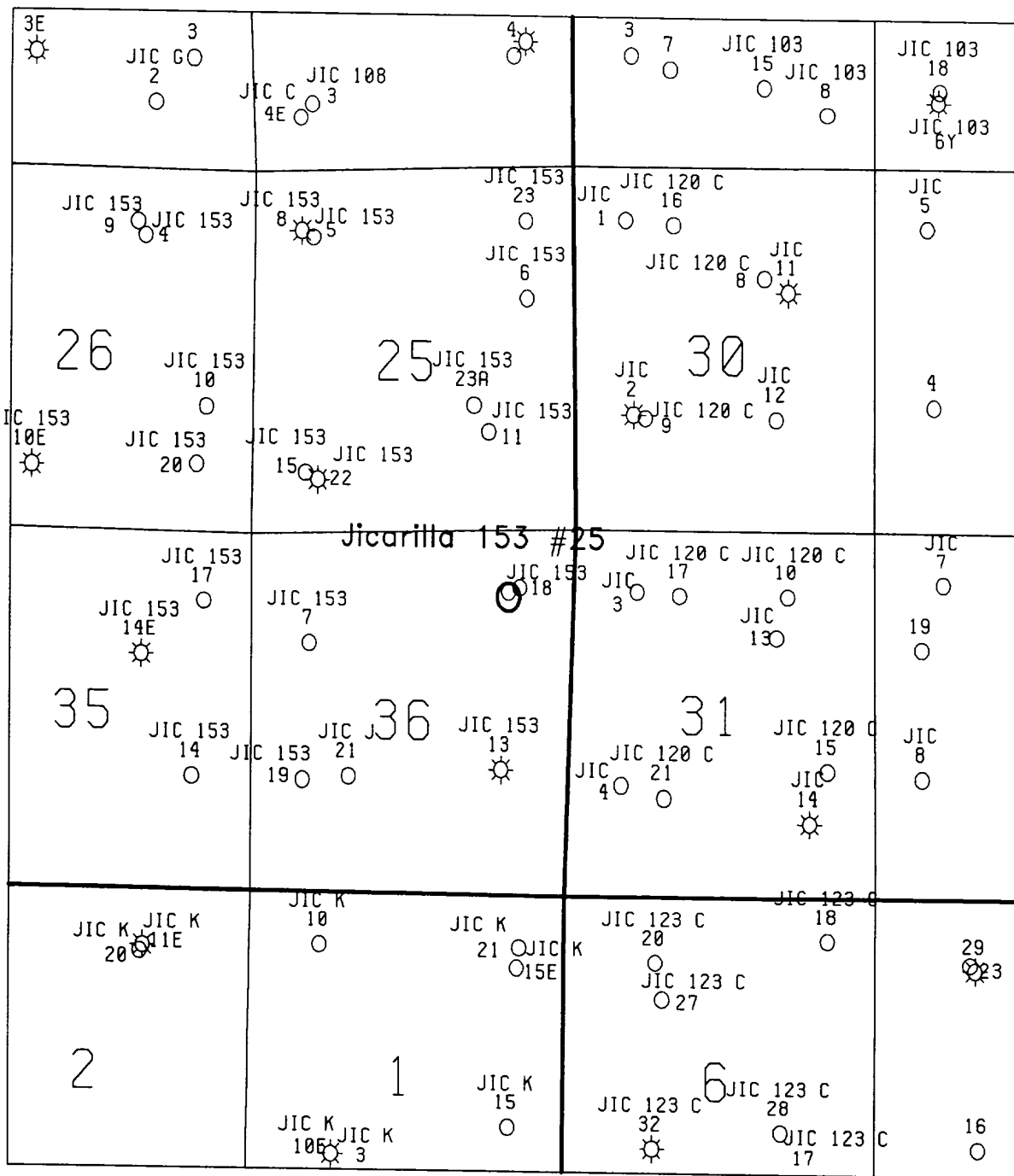


1) Burlington Resources

2) Energen Resources MAQ, Inc.
Attn: Rich Corcoran
2198 Bloomfield Highway
Farmington, NM 87401

3) Conoco Inc.
10 Desta Drive, Suite 100W
Midland, Texas

4) Beartooth Oil & Gas Company
P.O. Box 2564
Billings, MT 59103



Jicarilla 153 #25
Sec 36, T26N, R5W
Mesa Verde/Dakota