

DATE IN 7/14/99	SUSPENSE 8/3/99	ENGINEER DC	LOGGED BY MV	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

2040 South Pacheco, Santa Fe, NM 87505



2414

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATION FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

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] or [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 - Certification

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 (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Print or Type Name

Signature

Title

Date

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 DIVISION

2040 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 ☐ NO

BURLINGTON RESOURCES OIL & GAS COMPANY

PO Box 4289, Farmington, NM 87499

Operator

Address

Jicarilla 150

5M

F, Sec 12, T26N, R5W

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. 30-039-2301800 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)	5578' - 6188'		8148' - 8336'
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. 357 psia @ 5883' (Original) b. 2720 psia @ 5883'	a. b.	a. 454 psia @ 8242' b. 2169 psia @ 8242'
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: 05/31/99 Rates: 174 MCFD 0.3 BOD, 0 BWD	Date: Rates:	Date: 05/31/99 Rates: 115 MCFD, 0.3 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 ☐ 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 Timothy J. Friesenhahn TITLE Operations Engineer DATE 07-02-99TYPE OR PRINT NAME Timothy J. Friesenhahn TELEPHONE NO. (505) 326-9700

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Supersedes
Effective 1

All distances must be from the outer bear circles of the Section.

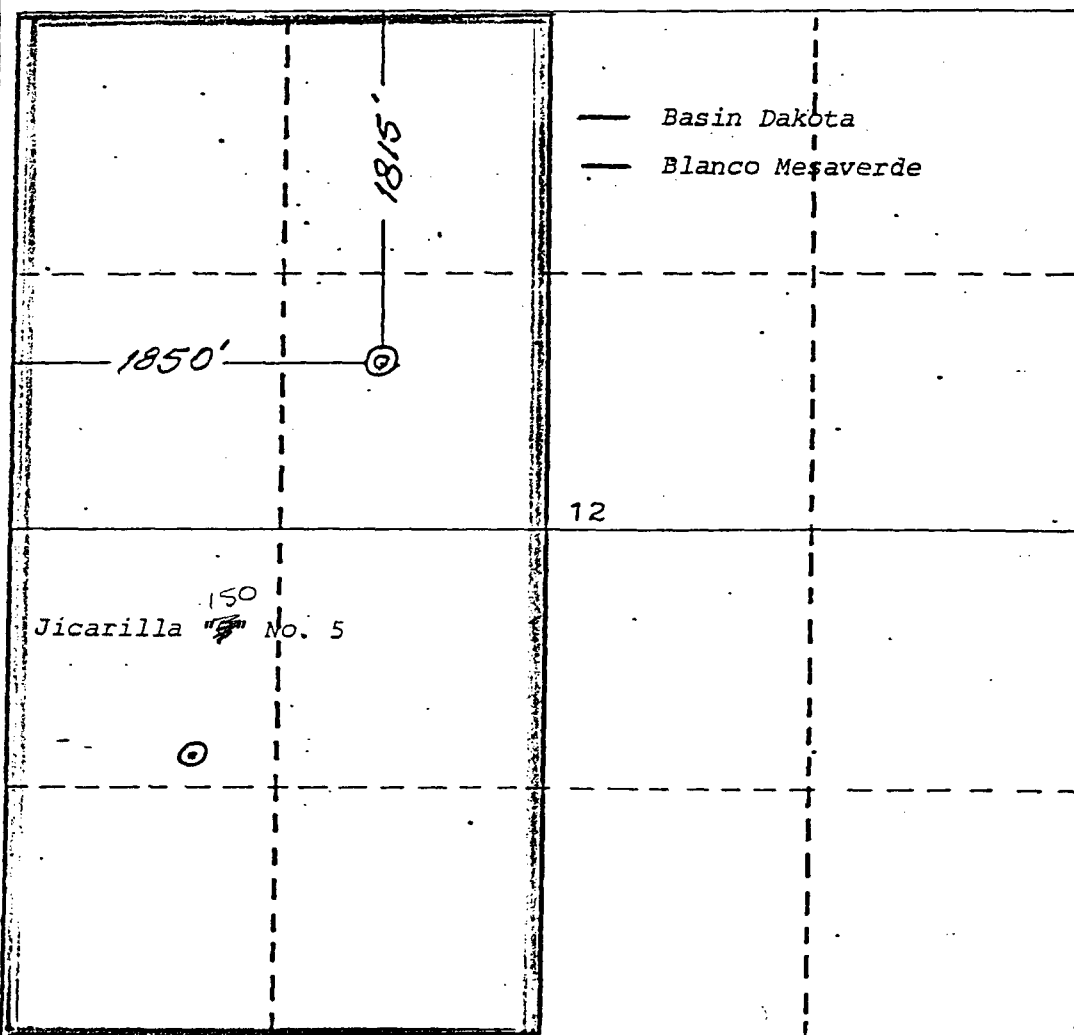
Operator SUPRON ENERGY CORPORATION			Lease JICARILLA 150		Well No. 5E
Unit Letter F	Section 12	Township 26 NORTH	Range 5 WEST	County RIO ARriba	
Actual Footage Location of Well: 1815 feet from the NORTH line and 1850 feet from the WEST line					
Ground Level Elev. 7263	Producing Formation DAKOTA MESAVERDE		Pool BASIN BLANCO		Dedicated Acreage: W/2 320.00

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 work 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.

Rudy D. Motto
Name

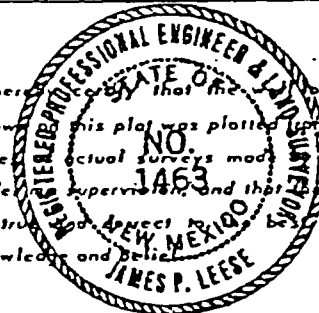
Rudy D. Motto
Position

Area Superintendent
Company

Supron Energy Corporation
Date

March 25, 1982

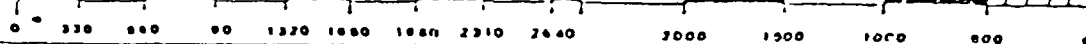
I hereby certify that the information shown on this plat was plotted from notes of actual surveys made under supervision, and that the same is true to the best of my knowledge and belief.

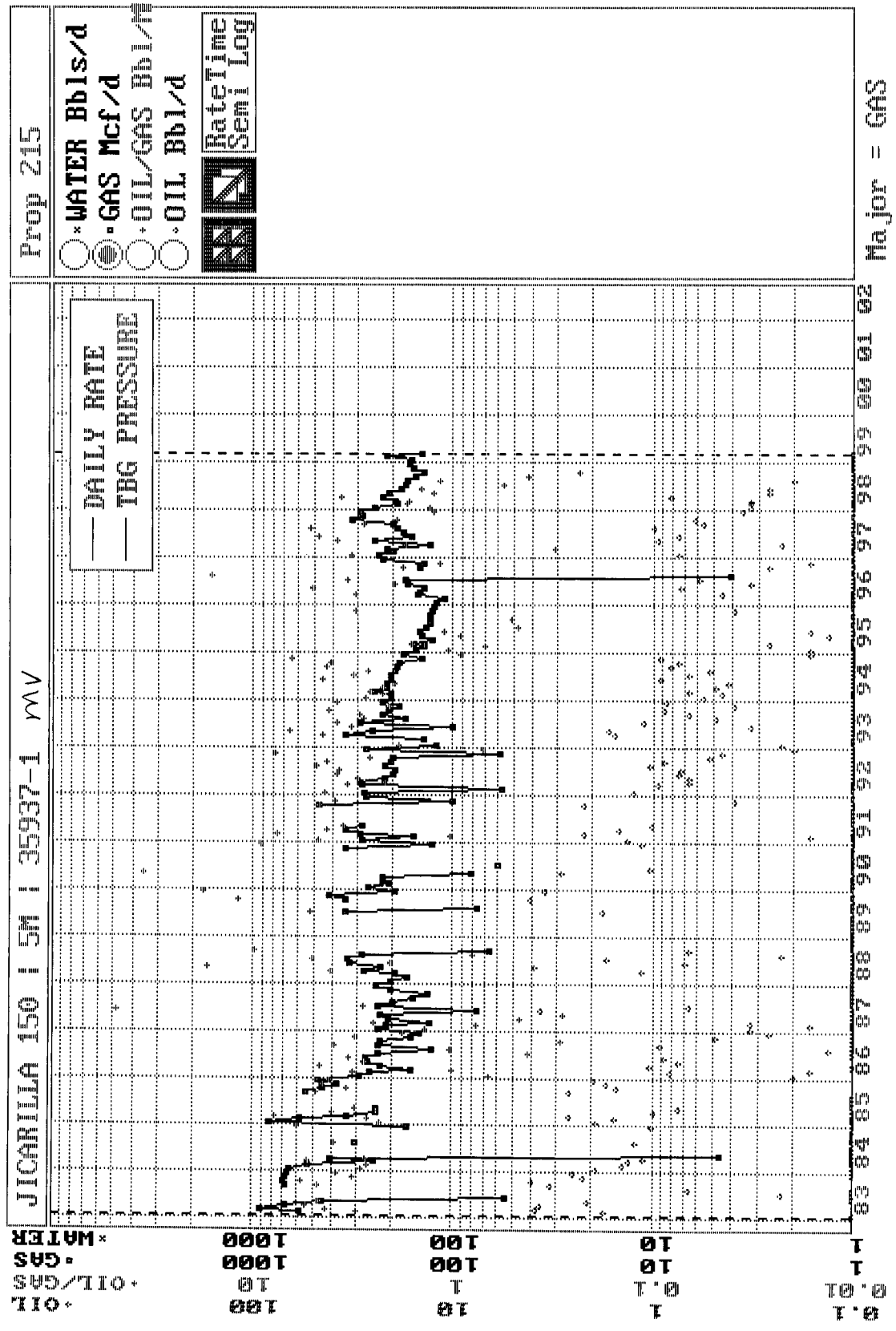


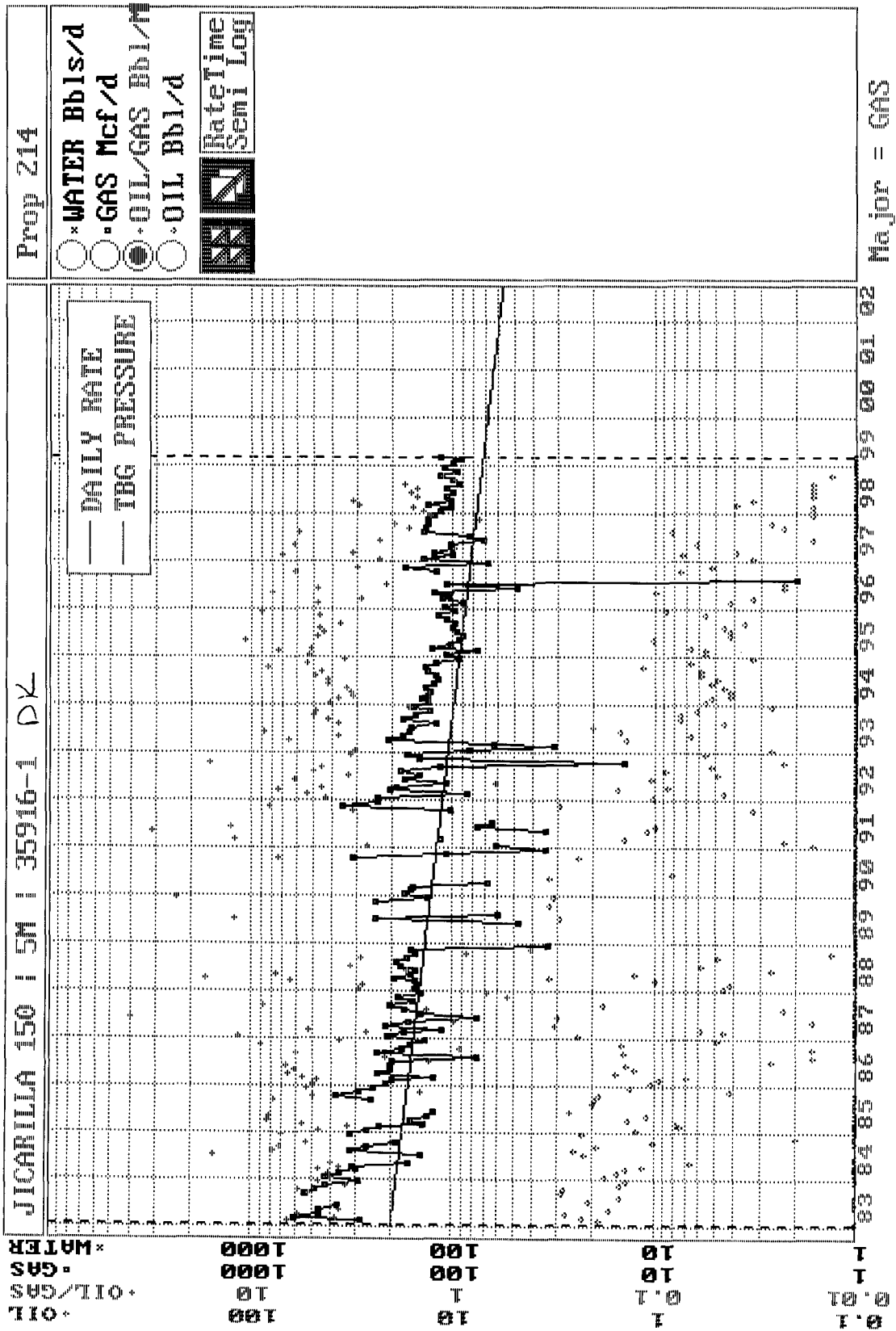
Date Surveyed
March 24, 1982

Registered Professional Engineer and/or Land Surveyor
James P. Leese

Certificate No.
1463







Page No.: 1
Print Time: Thu Jun 10 14:31:28 1999
Property ID: 1034
Property Name: JICARILLA 150 | 5M | 35916-1 *Dakota*
Table Name: K:\ARIES\RR99PDP\TEST.DBF

<u>--DATE--</u>	<u>---CUM_GAS--</u>	<u>M SIWHP</u>
	<u>Mcf</u>	<u>Psi</u>

09/24/82	0	853.0
04/03/83	41216	1713.0
05/02/84	168066	1047.0
05/29/85	234694	1000.0
01/13/88	405075	889.0
11/02/90	508076	830.0
04/29/92	563174	850.0

Original

3/99 854812 313 Current Based on CumGas vs Pressure Curve

Page No.: 2
Print Time: Thu Jun 10 14:31:28 1999
Property ID: 3156
Property Name: JICARILLA 150 | 5M | 35937-1 MESA VERDE
Table Name: K:\ARIES\RR99PDP\TEST.DBF

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

09/17/82	0	2250.0
11/08/82	0	840.0
04/03/83	65978	664.0
05/02/84	221912	537.0
05/29/85	304286	540.0
04/23/86	389254	517.0
11/29/89	609974	597.0
05/15/91	704320	346.0
06/04/91	704299	358.0
04/29/93	824696	427.0

3/99 1,210,148 308 Current
Based on CumGas vs Pressure Curve

Jicarilla 150 #5M
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	<u>0.708</u>	GAS GRAVITY	<u>0.683</u>
COND. OR MISC. (C/M)	<u>M</u>	COND. OR MISC. (C/M)	<u>M</u>
%N2	<u>0.38</u>	%N2	<u>0.31</u>
%CO2	<u>1.04</u>	%CO2	<u>0.89</u>
%H2S	<u>0</u>	%H2S	<u>0</u>
DIAMETER (IN)	<u>12.715</u>	DIAMETER (IN)	<u>6.276</u>
DEPTH (FT)	<u>5883</u>	DEPTH (FT)	<u>8242</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>	SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>138</u>	BOTTOMHOLE TEMPERATURE (DEG F)	<u>170</u>
FLOWRATE (MCFPD)	<u>0</u>	FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>308</u>	SURFACE PRESSURE (PSIA)	<u>373</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>357.3</u>	BOTTOMHOLE PRESSURE (PSIA)	<u>453.8</u>
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	<u>0.708</u>	GAS GRAVITY	<u>0.683</u>
COND. OR MISC. (C/M)	<u>M</u>	COND. OR MISC. (C/M)	<u>M</u>
%N2	<u>0.38</u>	%N2	<u>0.31</u>
%CO2	<u>1.04</u>	%CO2	<u>0.89</u>
%H2S	<u>0</u>	%H2S	<u>0</u>
DIAMETER (IN)	<u>12.715</u>	DIAMETER (IN)	<u>6.276</u>
DEPTH (FT)	<u>5883</u>	DEPTH (FT)	<u>8242</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>	SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>138</u>	BOTTOMHOLE TEMPERATURE (DEG F)	<u>170</u>
FLOWRATE (MCFPD)	<u>0</u>	FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>2250</u>	SURFACE PRESSURE (PSIA)	<u>1713</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>2720.5</u>	BOTTOMHOLE PRESSURE (PSIA)	<u>2169.0</u>

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, 1:42:43

Completion	Date	Cur Oil	Cum Oil	Cur Gas	Cum Gas	Cur Wat	Cum Wat
JICARILLA 150	12/31/1998	6.68	11.68	3,298.93	8,109.58	0.00	0.00
DK	01/31/1999	6.68	18.36	3,028.35	11,137.93	0.00	0.00
	02/28/1999	12.52	30.88	2,772.48	13,910.41	0.00	0.00
	03/31/1999	9.18	40.06	3,441.08	17,351.49	0.00	0.00
	04/30/1999	8.35	48.40	2,705.81	20,057.30	0.00	0.00
	05/31/1999	8.35	56.75	3,580.30	23,637.60	0.00	0.00
	06/30/1999	0.00	56.75	0.00	23,637.60	0.00	0.00
MV	12/31/1998	0.00	98.67	4,948.89	8,004.08	0.00	0.00
	01/31/1999	14.19	112.85	4,850.85	12,854.93	0.00	0.00
	02/28/1999	20.03	132.88	6,412.57	19,267.50	0.00	0.00
	03/31/1999	11.68	144.56	4,278.32	23,545.82	0.00	0.00
	04/30/1999	12.52	157.08	5,386.13	28,931.95	0.00	0.00
	05/31/1999	9.18	166.26	5,392.99	34,324.94	0.00	0.00
	06/30/1999	0.00	166.26	0.00	34,324.94	0.00	0.00

Cumulative Monthly Well Report

May 1998 -- May 1999

Select By : Completions

Sort By :

Page No : 1

Report Number : R_290

Last Update :

Print Date : 05/13/1999, 10:44:49

Completion	Date	Cum Oil	Cur Oil	Cum Gas	Cur Gas	Cum Wat	Cur Wat
JICARILLA 150	10/31/1998	93.66	93.66	120.00	120.00	0.00	0.00
	11/30/1998	5.01	5.01	2,935.19	2,935.19	0.00	0.00
	12/31/1998	6.68	6.68	3,298.93	3,298.93	0.00	0.00
	01/31/1999	6.68	6.68	3,028.35	3,028.35	0.00	0.00
	02/28/1999	12.52	12.52	2,772.48	2,772.48	0.00	0.00
	03/31/1999	9.18	9.18	3,441.08	3,441.08	0.00	0.00
	04/30/1999	8.35	8.35	0.00	0.00	0.00	0.00
	05/31/1999	0.00	0.00	0.00	0.00	0.00	0.00
	11/30/1998	5.01	5.01	4,810.65	4,810.65	0.00	0.00
	12/31/1998	0.00	0.00	4,948.89	4,948.89	0.00	0.00
	01/31/1999	14.19	14.19	4,850.85	4,850.85	0.00	0.00
	02/28/1999	20.03	20.03	6,412.57	6,412.57	0.00	0.00
	03/31/1999	11.68	11.68	4,278.32	4,278.32	0.00	0.00
	04/30/1999	12.52	12.52	0.00	0.00	0.00	0.00
	05/31/1999	0.00	0.00	0.00	0.00	0.00	0.00

842271
15596
- 3055
854812

41187
142
4329

1189658
+25301
- 4811-608
1,210,148

3844
63
3907

FARMINGTON

ANNUAL PRODUCTION FOR 35937

PHS020M1

JICARILLA 150 5M

BLANCO MESAVERDE (PRORATED GAS FIELD MESAVERDE ZONE

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

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

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

PC DATE

BBLs

PC DATE

MCF

DATE

BBLs

```
=====
YEAR      OIL      OIL CUM      GAS      GAS CUM      WATER      WATER CUM
1993      249      3256      69579     875710
1994      224      3480      72963     948673
1995       41      3521      50590     999263
1996       79      3600      46711    1045974
1997      161      3761      81198    1127172
1998       83      3844      62486    1189658
=====
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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 35937

PHS030M1

JICARILLA 150 5M

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	10		01	7602	31	1201	15.025			
2	2	F	28	02	10		01	5815	28	1201	15.025			
3	2	F	31	02	10		01	5986	31	1201	15.025			
4	2	F	25	02	25		01	6825	25	1198	15.025			
5	2	F	31	02	8		01	6357	31	1198	15.025			
6	2	F	30	02	8		01	5507	30	1198	15.025			
7	2	F	31	02	3		01	5362	31	1198	15.025			
8	2	F	31	02	6		01	5150	31	1198	15.025			
9	2	F	30	02	2		01	4756	30	1198	15.025			
10	2	F	31	02	1		01	4315	31	1198	15.025			
11	2	F					01	4811		1198	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 02/03/99

FARMINGTON

ANNUAL PRODUCTION FOR 35916

PHS020M1

JICARILLA 150 5M

BASIN DAKOTA (PRORATED GAS) FIELD

DAKOTA ZONE

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

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

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

PC DATE

BBLs

PC DATE

MCF

DATE

BBLs

```
=====
YEAR      OIL      OIL CUM      GAS      GAS CUM      WATER      WATER CUM
1993      203      3512      50136     647190
1994      205      3717      46757     693947
1995      180      3897      37262     731209
1996      112      4009      32519     763728
1997      119      4128      42566     806294
1998       59      4187      35977     842271
=====
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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 35916

PHS030M1

JICARILLA 150 5M

BASIN DAKOTA (PRORATED GAS) FIELD

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	5		01	3522	31	1143	15.025				
2	2	F	28	02	5		01	3158	28	1143	15.025				
3	2	F	31	02	12		01	4057	31	1143	15.025				
4	2	F	28	02	10		01	3166	28	1166	15.025				
5	2	F	31	02	5		01	3298	31	1166	15.025				
6	2	F	30	02	5		01	3107	30	1166	15.025				
7	2	F	31	02	5		01	3267	31	1166	15.025				
8	2	F	31	02	5		01	2894	31	1166	15.025				
9	2	F	30	02	3		01	3051	30	1166	15.025				
10	2	F	31	02	4		01	3522	31	1166	15.025				
11	2	F					01	2935		1166	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 02/03/99

BURLINGTON RESOURCES OIL AND GAS COMPANY

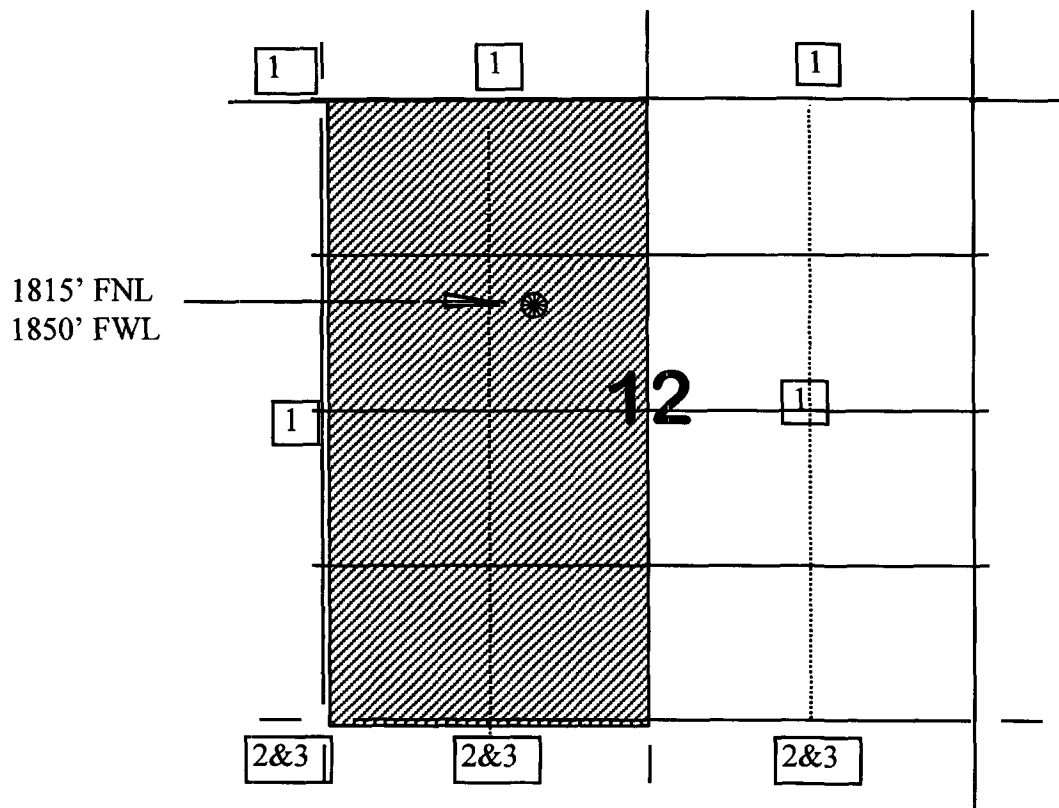
Jicarilla 150 #5M

OFFSET OPERATOR/OWNER PLAT

Mesaverde & Dakota Formations

Commingle well

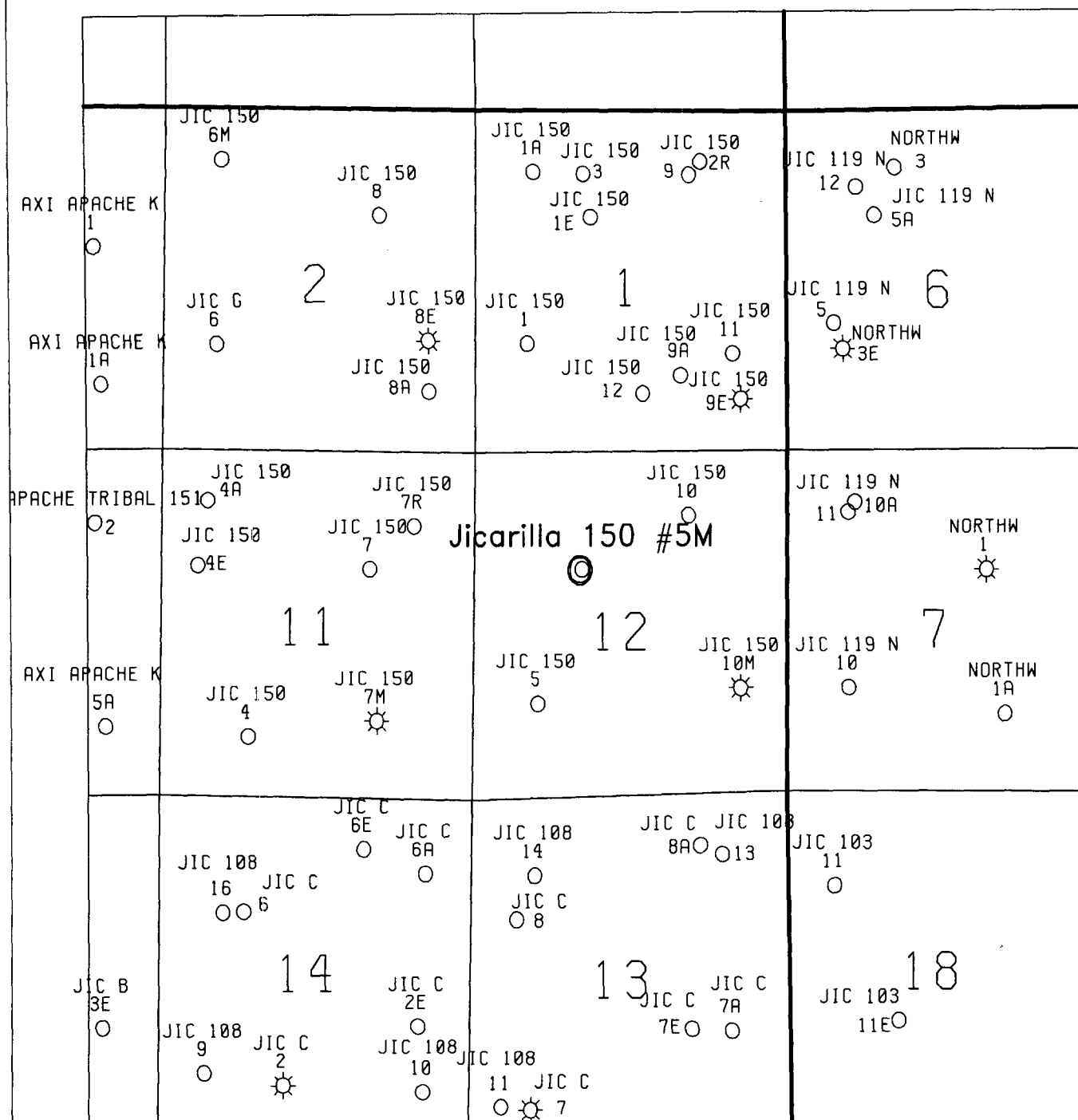
Township 26 North, Range 5 West



1) Burlington Resources

2) Amoco Production Company
C/O Don Duhrkopf
501 West Lake Park Blvd.
Houston, TX 77079-2696

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



Jicarilla 150 #5M
Sec 12, T26N, R5W
Mesa Verde/Dakota