

DATE IN 7/14/99	SUSPENSE 8/3/99	ENGINEER DC	LOGGED BY	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



2417

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 PQ Box 4289, Farmington, NM 87499
Operator Address
Jicarilla 153 22 M, Sec 25, 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 16579 API NO. 30-039-2298600 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		W.Lindrith Gallup Dakota - 39189
2. Top and Bottom of Pay Section (Perforations)	5040' – 5410'		7276' – 7530'
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. 250 psia @ 5225'	a.	a. 561 psia @ 7403'
	(Original) b. 1582 psia @ 5225'	b.	b. 1775 psia @ 7403'
6. Oil Gravity (EAPI) or Gas BTU Content	1236 BTU		1262 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:
	Date: 05/31/99 Rates: 101 MCFD 0.3 BOD, 0 BWD	Date: Rates:	Date: 05/31/99 Rates: 133 MCFD, 0.4 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 07-12-99

TYPE OR PRINT NAME Timothy J. Friesenhahn TELEPHONE NO. (505) 326-9700

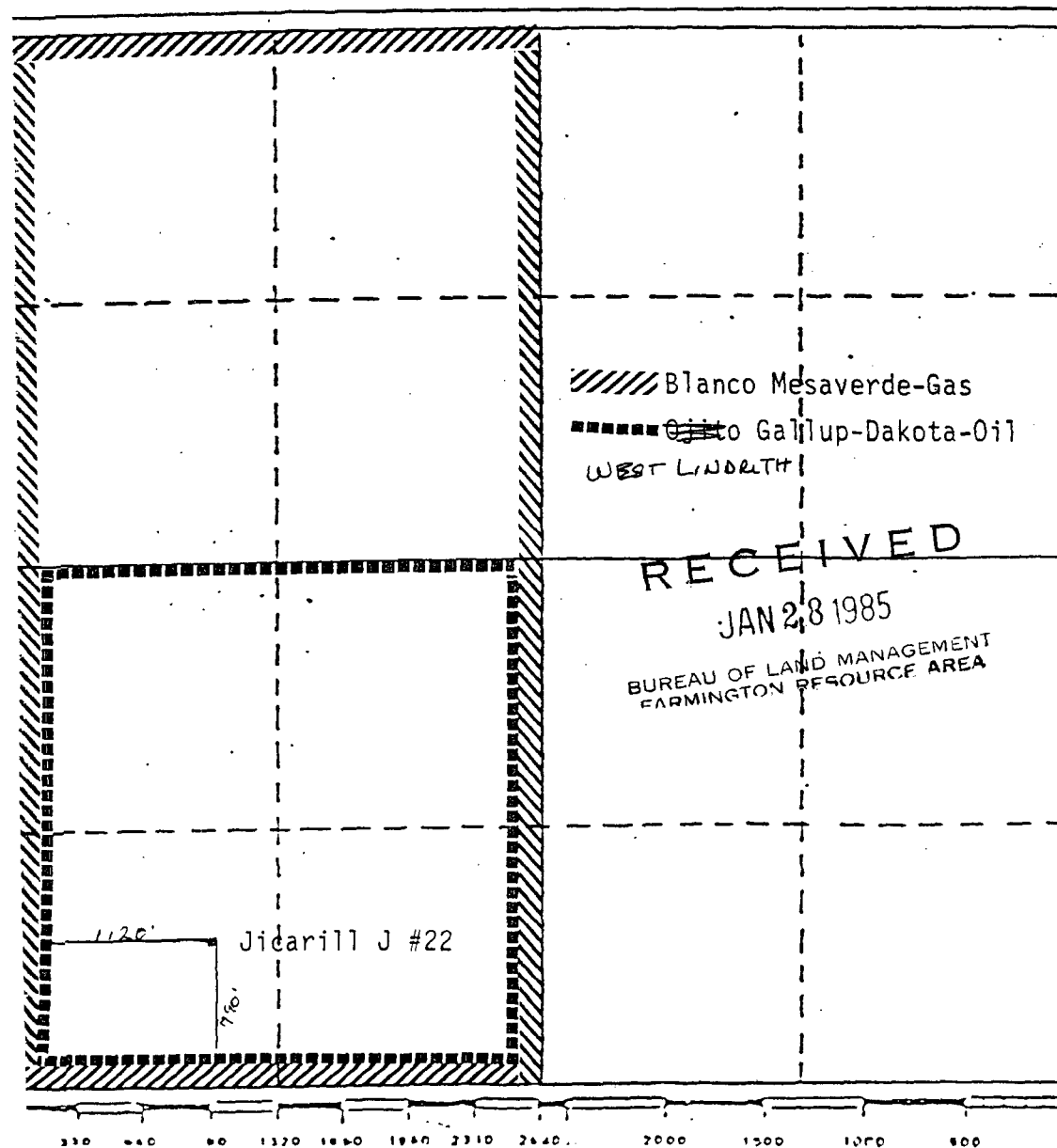
Operator Union Texas Petroleum Corporation		Lease Jicarilla J #22		Well No. 22	
Well Letter M	Section 25	Township 26N	Range 5W	County Rio Arriba	
Actual Footage Location of Well:					
790 feet from the South line and		1120 feet from the West line			
Ground Level Elev. 5664	Producing Formation Mesaverde Gallup-Dakota	Pool Blanco Ajo to WEST LINDRITH	Dedicated Acreage: W/2 320.00 SW/4 160.00		

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to work interest and royalty).
- 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.) Union Texas Exploration

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 Divis



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

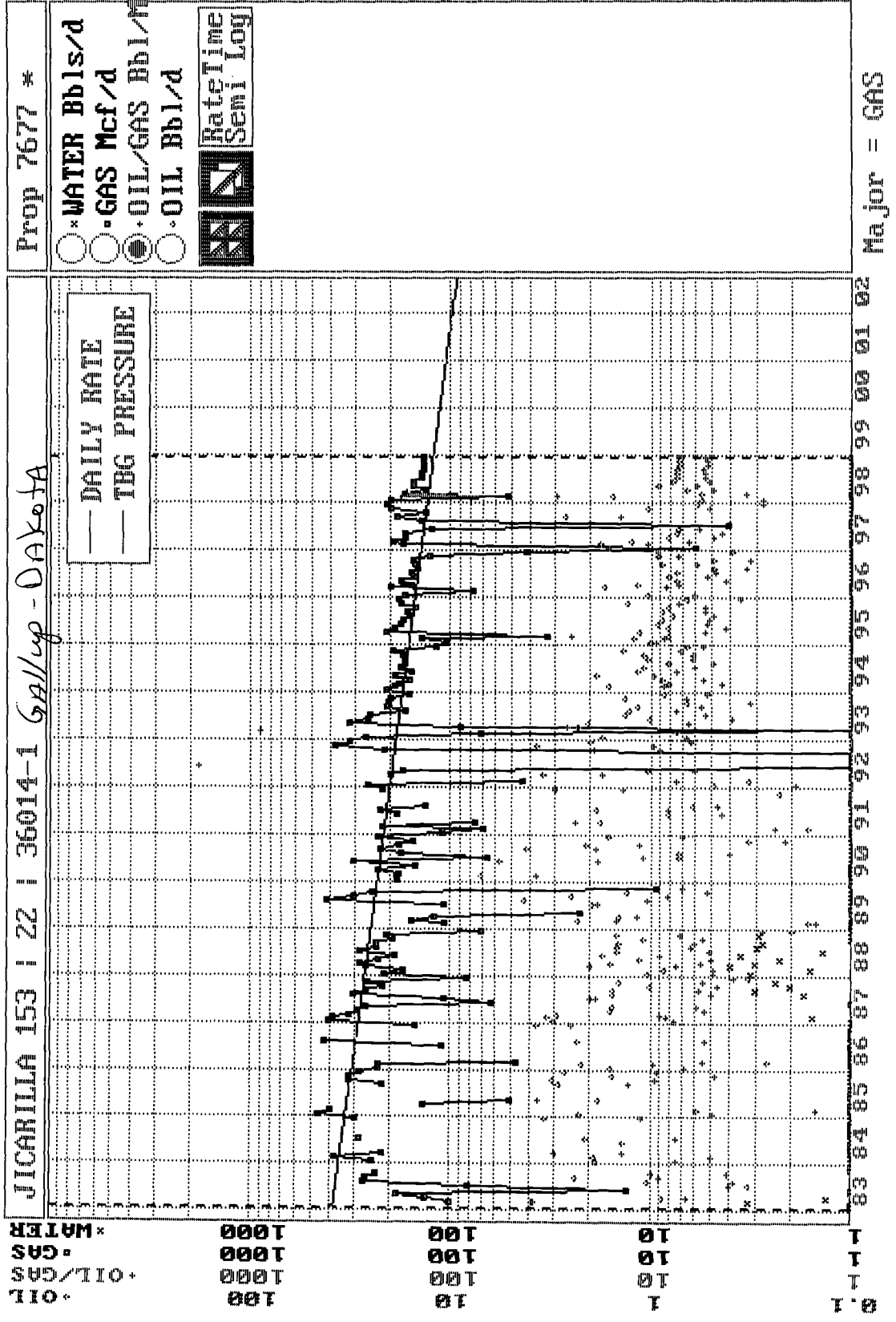
I hereby certify that the well location shown on this plat was plotted from field notes and/or survey made by me under my supervision, and that the same is true and correct to the best of my knowledge and belief.

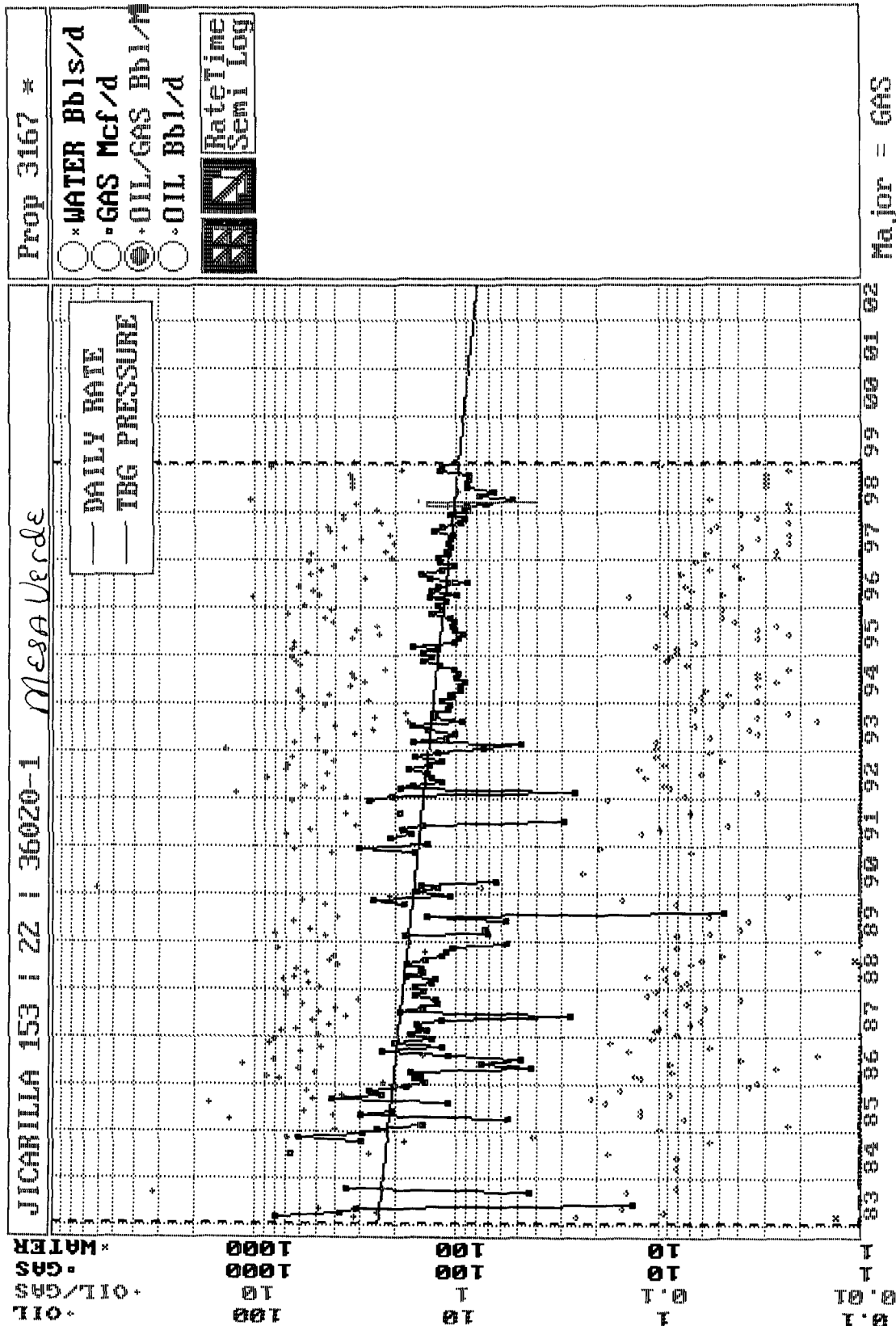
Date Surveyed

Registered Professional Engineer and/or Land Surveyor

Certificate No.

RECEIVED
JAN 28 1985
BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA





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

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

10/26/82	0	1337.0	<i>ORIGINAL</i>
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	

<i>3/31/99</i>	<i>741973</i>	<i>219</i>	<i>CURRENT</i>
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BASED ON PRESSURE VS GAS CUM CURVE

Page No.: 2

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

Property ID: 174

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

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

Offset Well for JICARILLA 153#22

---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 Gum GAS i's PRESSURE CURVE

Jicarilla 153 #22
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	0.725	GAS GRAVITY	0.707
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.34	%N2	0.50
%CO2	0.46	%CO2	0.85
%H2S	0	%H2S	0
DIAMETER (IN)	6.969	DIAMETER (IN)	4.95
DEPTH (FT)	5225	DEPTH (FT)	7403
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	138	BOTTOMHOLE TEMPERATURE (DEG F)	170
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	219	SURFACE PRESSURE (PSIA)	466
BOTTOMHOLE PRESSURE (PSIA)	250.1	BOTTOMHOLE PRESSURE (PSIA)	561.3
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.725	GAS GRAVITY	0.707
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.34	%N2	0.50
%CO2	0.46	%CO2	0.85
%H2S	0	%H2S	0
DIAMETER (IN)	6.969	DIAMETER (IN)	4.95
DEPTH (FT)	5225	DEPTH (FT)	7403
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	138	BOTTOMHOLE TEMPERATURE (DEG F)	170
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1337	SURFACE PRESSURE (PSIA)	1427
BOTTOMHOLE PRESSURE (PSIA)	1581.5	BOTTOMHOLE PRESSURE (PSIA)	1775.2

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, 9:44:15

Completion	Date	Cur Oil	Cum Oil	Cur Gas	Cum Gas	Cur Wat	Cum Wat
JICARILLA 153	12/31/1998	30.06	43.54	3,630.30	5,857.74	0.00	0.00
Mesa Verde	01/31/1999	10.03	53.57	3,092.07	8,949.81	0.00	0.00
	02/28/1999	13.37	66.94	3,052.86	12,002.67	0.00	0.00
	03/31/1999	0.00	66.94	3,139.13	15,141.80	23.46	23.46
	04/30/1999	10.05	76.99	3,150.90	18,292.70	0.00	23.46
	05/31/1999	10.06	87.04	3,129.33	21,422.03	0.00	23.46
	06/30/1999	0.00	87.04	0.00	21,422.03	0.00	23.46
Dakota	12/31/1998	25.02	31.69	3,083.22	6,791.98	0.00	0.00
	01/31/1999	1.57	33.27	3,401.56	10,193.54	31.79	31.79
	02/28/1999	13.35	46.61	4,237.50	14,431.04	0.00	31.79
	03/31/1999	15.03	61.64	4,339.81	18,770.85	0.00	31.79
	04/30/1999	0.78	62.41	3,355.80	22,126.65	20.08	51.87
	05/31/1999	12.65	75.06	4,121.19	26,247.84	0.00	51.87
	06/30/1999	0.00	75.06	0.00	26,247.84	0.00	51.87

FARMINGTON

ANNUAL PRODUCTION FOR 36020

PHS020M1

JICARILLA 153 22

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	179	2810	42159	528477		261
1994	182	2992	40364	568841		261
1995	208	3200	42954	611795		261
1996	213	3413	44362	656157		261
1997	132	3545	40572	696729		261
1998	98	3643	32330	729059	- 3707 (Dep 11/30)	261
		<u>60</u> 3703	Cum 3/31	<u>16621</u> 741,973		

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 36020

PHS030M1

JICARILLA 153 22

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	7		01	2792	31	1219	15.025			
2	2	F	28	02	3		01	2725	28	1241	15.025			
3	2	F	31	02	7		01	2234	31	1241	15.025			
4	2	F	24	02	17		01	1619	24	1241	15.025			
5	2	F	31	02			01	2395	31	1241	15.025			
6	2	F	30	02	2		01	2015	30	1241	15.025			
7	2	F	31	02	17		01	3415	31	1241	15.025			
8	2	F	31	02	19		01	3925	31	1241	15.025			
9	2	F	30	02	17		01	3960	30	1241	15.025			
10	2	F	31	02	9		01	3543	31	1241	15.025			
11	2	F					01	3707		1241	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 36014

PHS020M1

JICARILLA 153 22

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
1993      445      4790      67202     625728
1994      381      5171      64021     689749
1995      344      5515      57056     746805
1996      288      5803      52500     799305
1997      298      6101      52437     851742
1998      221      6322      45460     897202 - 2103 (11/98) (Used well Rpt #4)
                                     68
                                     Cum 3/31
                                     + 17292
                                     912,311
=====

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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 36014

PHS030M1

JICARILLA 153 22

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	17		01	6128	31	1194	15.025				
2	2	F	19	02	47		01	1574	19	1194	15.025				
3	2	F	31	02	17		01	5142	31	1194	15.025				
4	2	F	26	02	20		01	4095	26	1200	15.025				
5	2	F	31	02	28		01	4763	31	1200	15.025				
6	2	F	30	02	24		01	4664	30	1200	15.025				
7	2	F	31	02	12		01	4569	31	1200	15.025				
8	2	F	31	02	18		01	4188	31	1200	15.025				
9	2	F	30	02	13		01	4005	30	1200	15.025				
10	2	F	31	02	25		01	4149	31	1200	15.025				
11	2	S					01	2183		1200	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

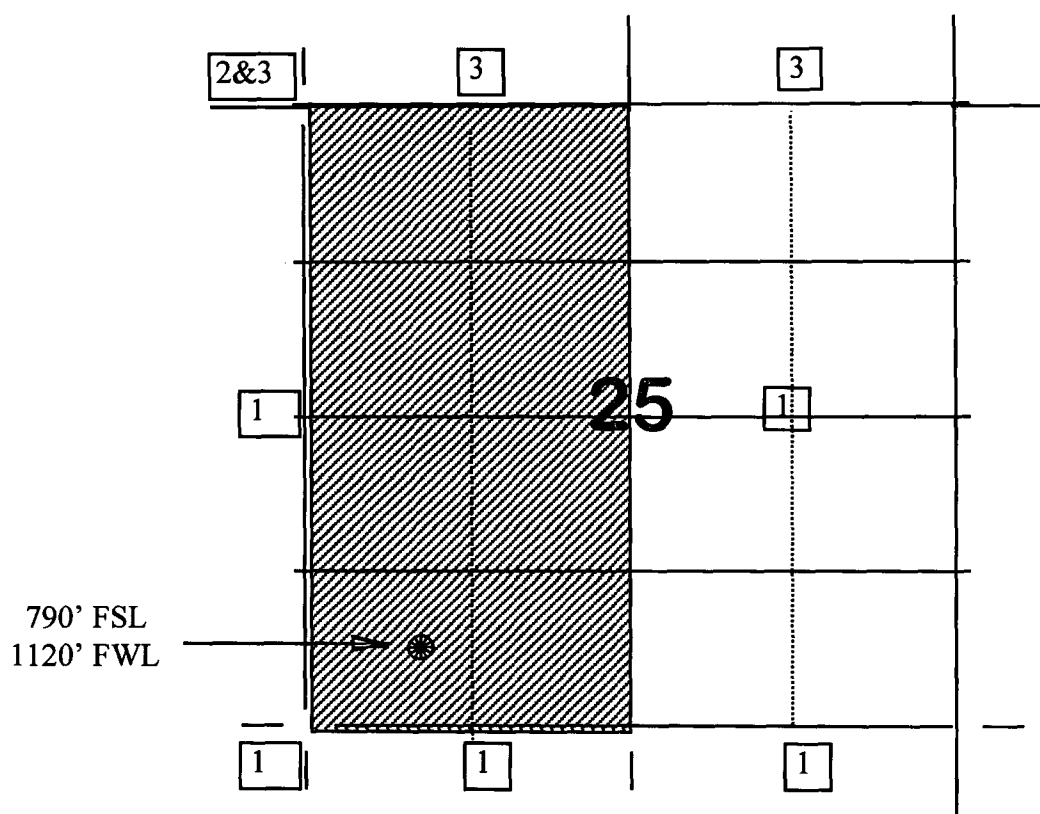
Jicarilla 153 #22

OFFSET OPERATOR/OWNER PLAT

Mesaverde (W/2) & Gallup-Dakota (SW/4) Formations

Commingle well

Township 26 North, Range 5 West

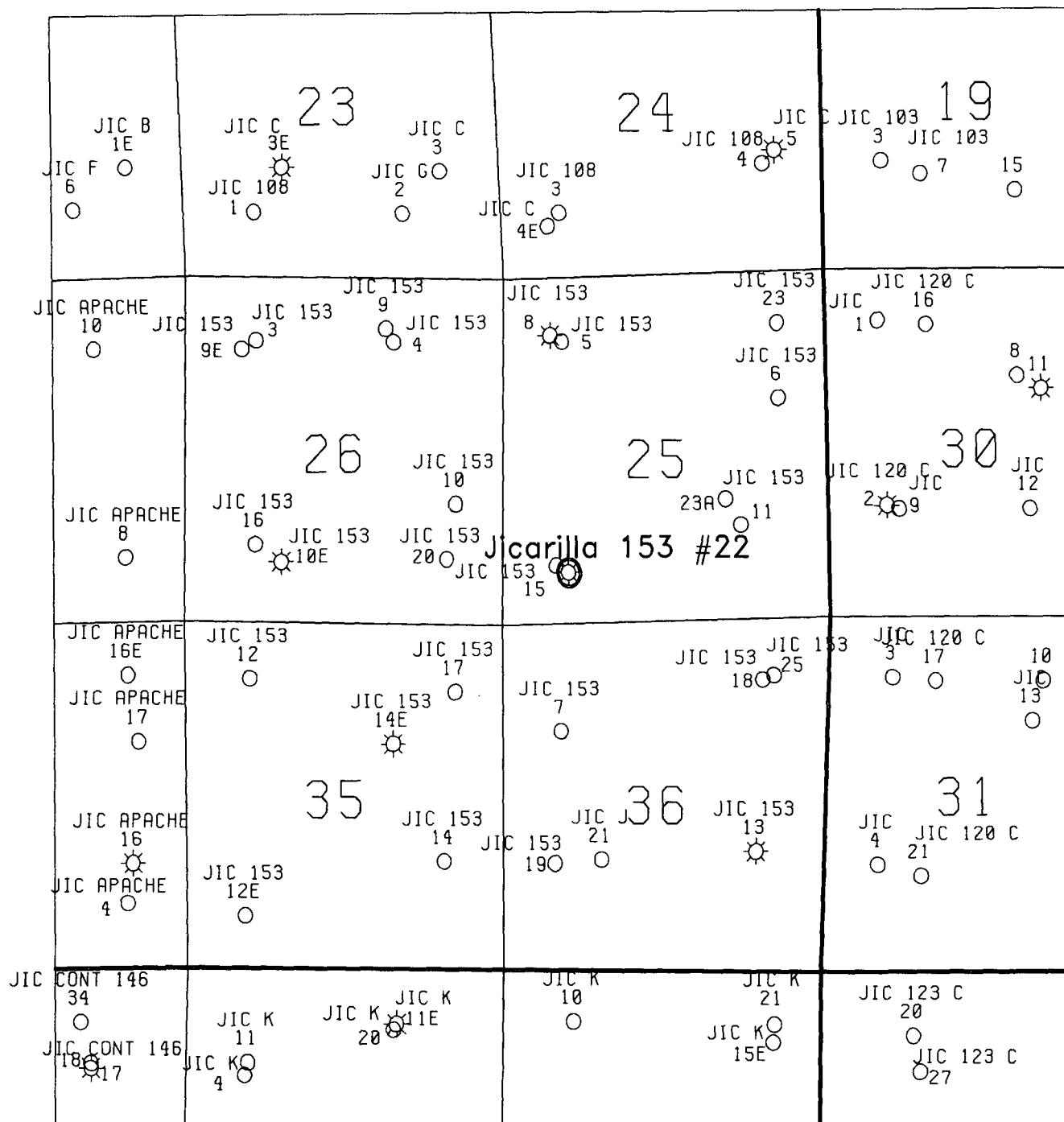


1) Burlington Resources

**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 153 #22
Sec 25, T26N, R5W
Mesa Verde/Dakota