

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

San Juan 27-4 Unit

102M

D 33-27N-04W

Rio Arriba

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7452 API NO. 30-039-not assigned 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		Basin Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	will be supplied upon completion		will be supplied upon completion
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. 678 psi (see attachment) (Original) b. 1409 psi (see attachment)		a. 1107 psi (see attachment) b. 3004 psi (see attachment)
6. Oil Gravity (API) or Gas BTU Content	BTU 1195		BTU 1215
7. Producing or Shut-In?	shut in		shut in
Production Marginal? (yes or no)	no		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: n/a Rates:	Date: Rates:	Date: n/a Rates:
* If Producing, give data and oil/gas/water of recent test (within 60 days)	Date: n/a Rates:	Date: Rates:	Date: n/a Rates:
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: % Gas: % will be supplied upon completion	Oil: % Gas: %	Oil: % Gas: % will be supplied upon completion

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 ☐ No15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S).

16. ATTACHMENTS:

- * Certificate 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 Sean Woolverton TITLE: Reservoir Engineer DATE: 06-29-98TYPE OR PRINT NAME Sean Woolverton TELEPHONE NO. (505) 326-9700

District I
PO Box 1980, Hobbs NM 88241-1980
District II
PO Drawer KK, Artesia, NM 87211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form
Revised February 2

Instructions:
Submit to Appropriate District
State Lease - 4
Fee Lease - 3

☐ AMENDED RI

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-	¹ Pool Code 72319/71599	¹ Pool Name Blanco Mesaverde/Basin Dakota
¹ Property Code 7452	¹ Property Name SAN JUAN 27-4 UNIT	¹ Well Number # 1021
¹ OGRID No. 14538	¹ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	¹ Elevation 7185

¹⁰ Surface Location

UL or Lot No. D	Section 33	Township 27 N	Range 4 W	Lot Idn	Feet from the 840	North/South line NORTH	Feet from the 1110	East/West line WEST	County RIO AR
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¹¹ Bottom Hole Location If Different From Surface

¹ 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 MV-W/320 DK-N/320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTEREST HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

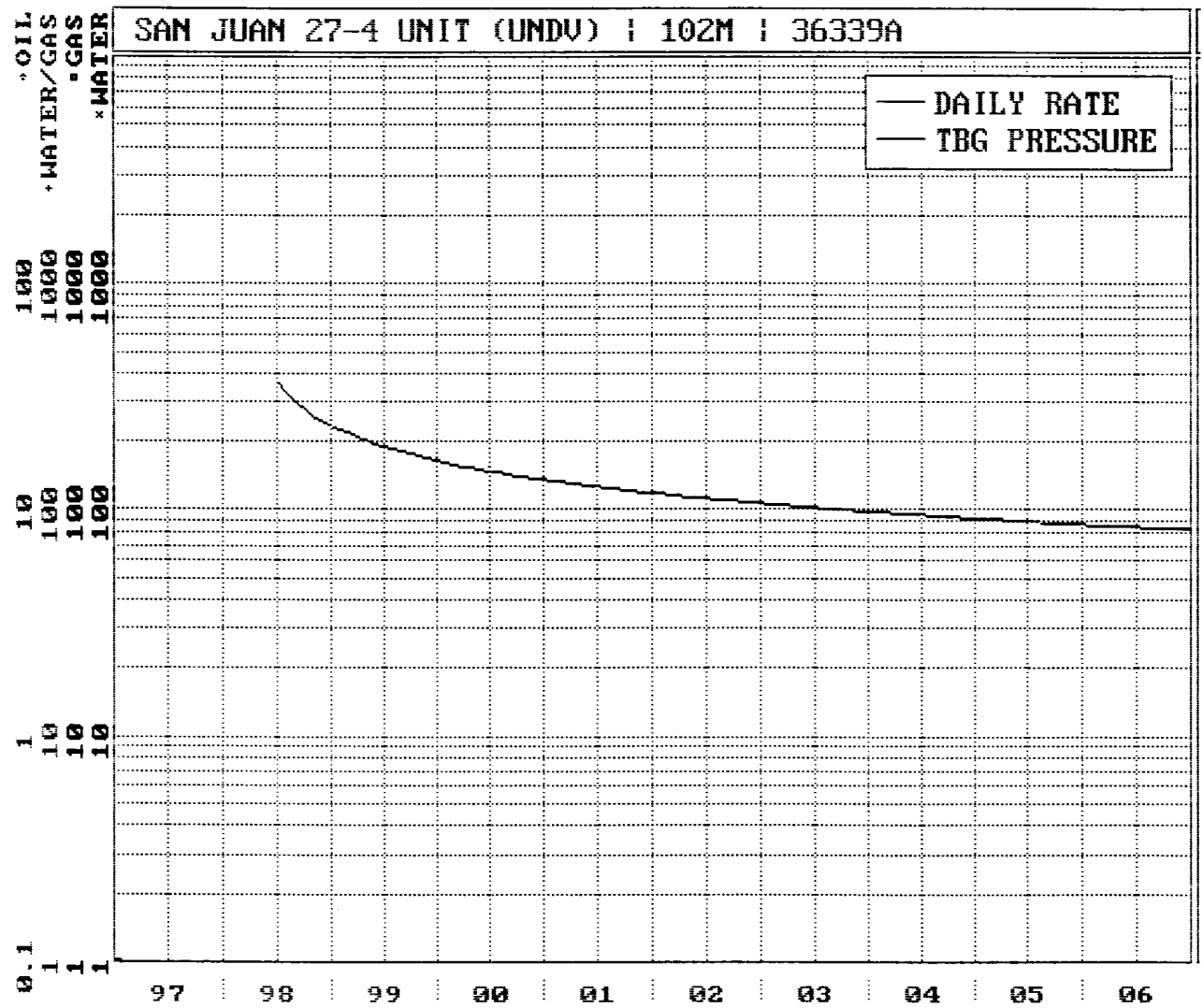
	¹⁶ OPERATOR CERTIFICATE I hereby certify that the information contained true and complete to the best of my knowledge Signature Peggy Bradfield Printed Name Regulatory Administrator Title Date
	¹⁷ SURVEYOR CERTIFICATE I hereby certify that the well location shown on was plotted from field notes of actual surveys made or under my supervision, and that the same is correct to the best of my belief. February 23, 1998 Date of Survey Signature and Seal of Professional Surveyor
	7016 Certificate Number
	RECEIVED JUL 8 1998 OIL CON. DIV. DIST. 3

(R) - GLO Record

San Juan 27-4 Unit #102M

Expected Production Curve

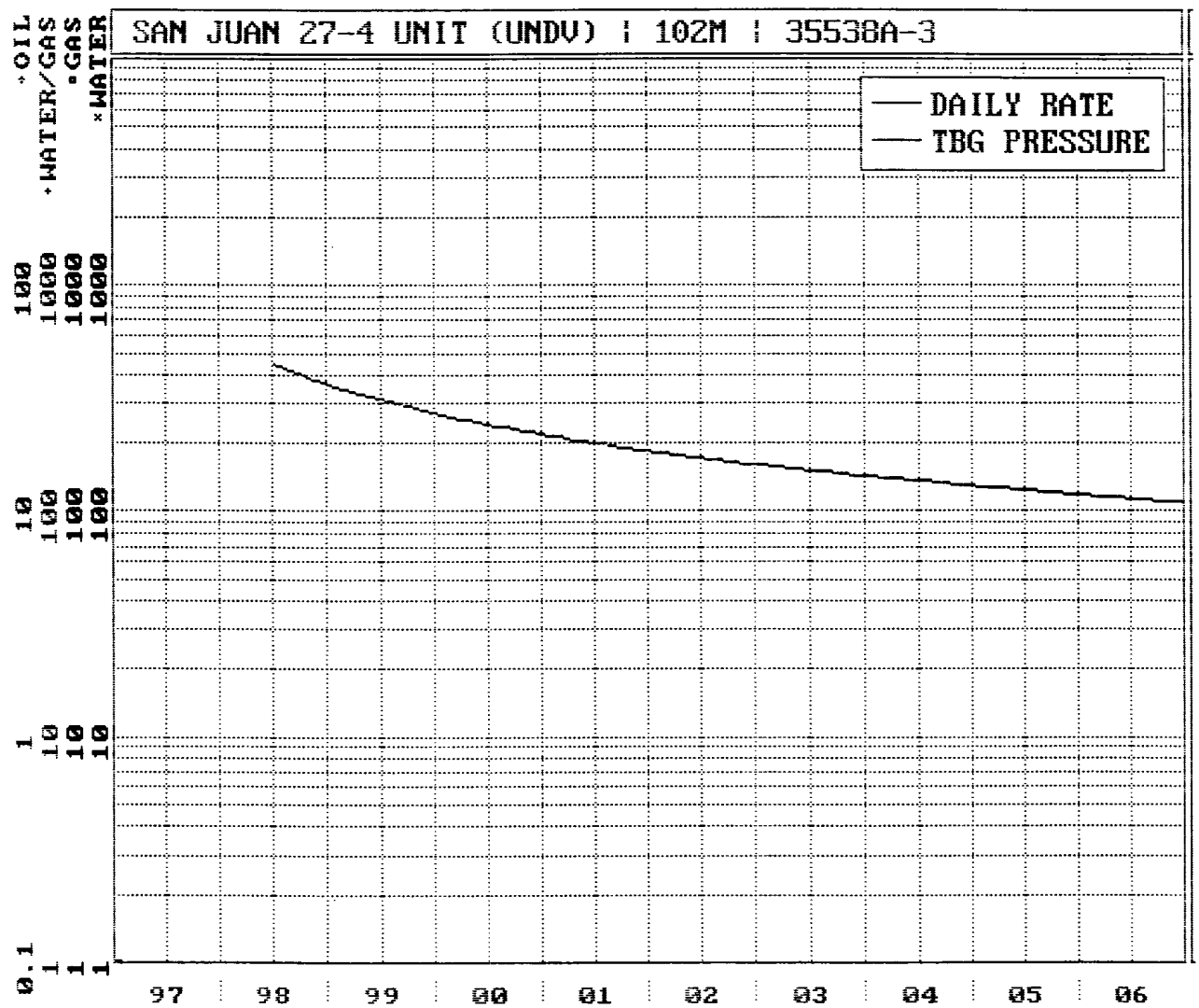
Blanco Mesaverde



San Juan 27-4 Unit #102M

Expected Production Curve

Basin Dakota



SJ 27-4 Unit #102M

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	0.7	GAS GRAVITY	0.714
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.23	%N2	0.29
%CO2	0.83	%CO2	0.91
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	2.375
DEPTH (FT)	6387	DEPTH (FT)	8163
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	574	SURFACE PRESSURE (PSIA)	892
BOTTOMHOLE PRESSURE (PSIA)	678.4	BOTTOMHOLE PRESSURE (PSIA)	1106.6
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.7	GAS GRAVITY	0.714
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.23	%N2	0.29
%CO2	0.83	%CO2	0.91
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	2.375
DEPTH (FT)	6387	DEPTH (FT)	8163
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1170	SURFACE PRESSURE (PSIA)	2372
BOTTOMHOLE PRESSURE (PSIA)	1409.1	BOTTOMHOLE PRESSURE (PSIA)	3004.0

Page No.: 1
Print Time: Wed Jan 14 16:08:51 1998
Property ID: 1646
Property Name: SAN JUAN 27-4 UNIT | 54 | 51794A-1
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San Juan 27-4 Unit # 102M

Dakota Offset

10/16/68	2372.0	-original
06/13/69	1405.0	
06/24/70	1040.0	
05/18/71	921.0	
06/13/72	812.0	
07/06/77	822.0	
05/01/79	821.0	
06/01/81	723.0	
05/20/85	972.0	
04/22/90	983.0	
06/15/93	892.0	- Current

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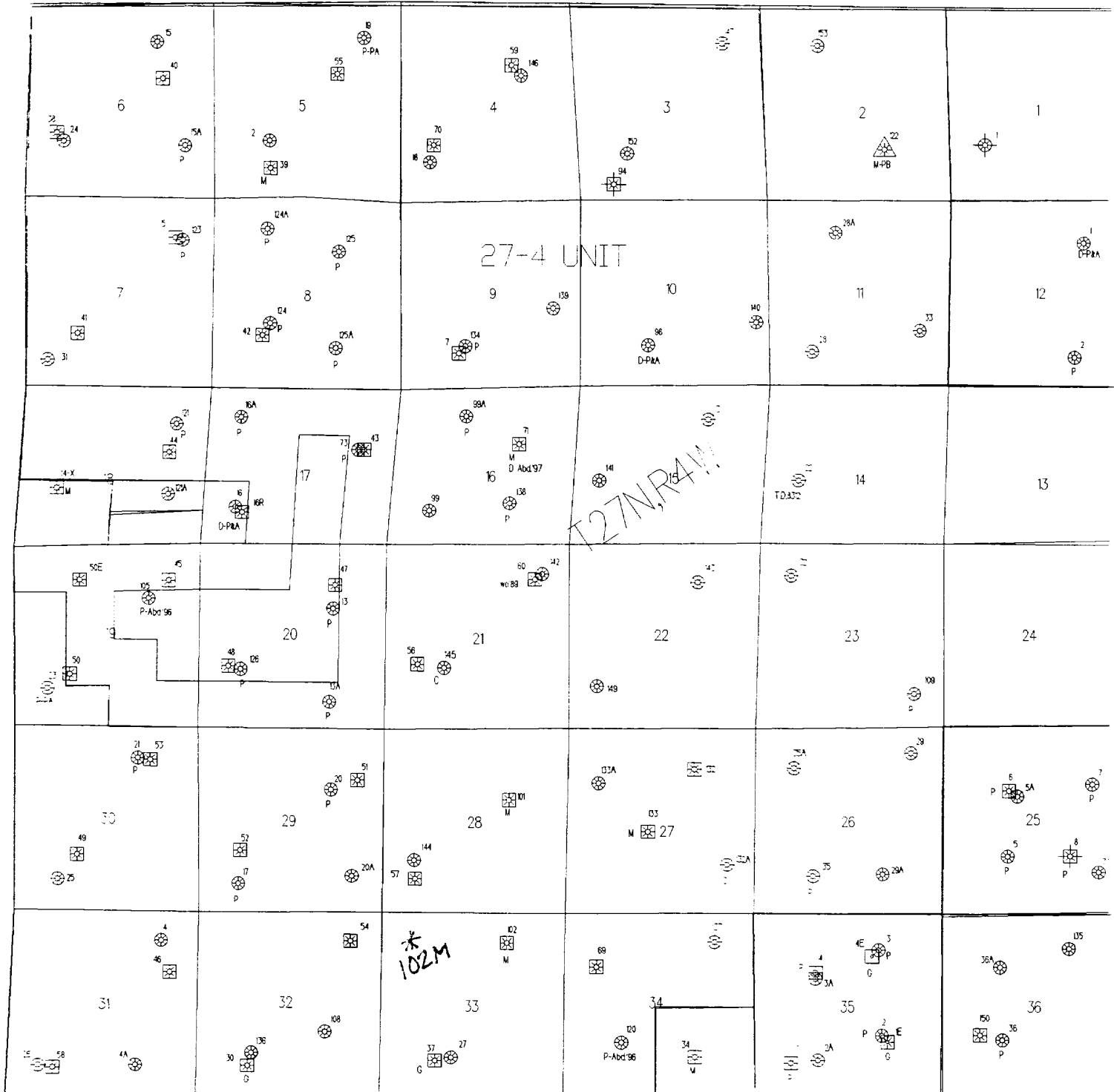
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San Juan 27-4 Unit #102M

Mesaverde Offset

01/07/80	1170.0	- original
01/14/80	1171.0	
07/07/80	831.0	
11/05/81	691.0	
11/05/82	670.0	
05/18/84	724.0	
11/03/86	602.0	
09/11/89	603.0	
09/18/91	797.0	
11/18/91	785.0	
07/30/93	574.0	- current

San Juan 27-4 Unit =102M
Blanco Mesaverde/ Basin Dakota
27N-4W-33P



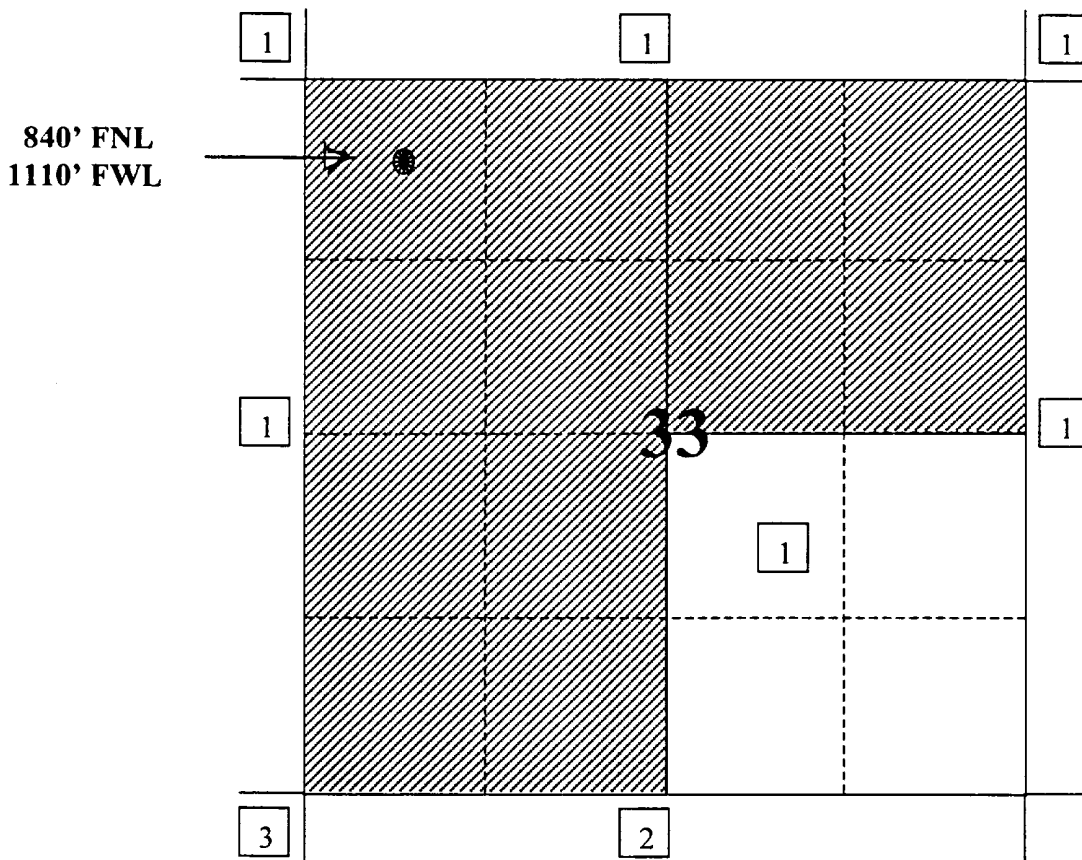
BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 27-4 Unit #102M

OFFSET OPERATOR/OWNER PLAT

Mesaverde (W/2) / Dakota (N/2) Formations Commingle Well

Township 27 North, Range 4 West



- 1) Burlington Resources
- 2) Amoco Production Company
Attn: Steve Trefz
P.O. Box 800
1670 Broadway
Denver, CO 80201
- 3) Chateau Oil & Gas, Inc.
5950 Berkshire Lane, Ste 275
Dallas, TX 75225