

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 87505-6429

APPLICATION FOR DOWNHOLE COMMINGLING

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

APPROVAL PROCESS :

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☐ YES ☒ NO

Burlington Resources Oil & Gas Company

PO Box 4289, Farmington, NM 87499

Operator

Address

San Juan 27-4 Unit

14M

F 18-27N-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. 612 psi (see attachment) (Original) b. 1340 psi (see attachment)	a. b.	a. 921 psi (see attachment) b. 3101 psi (see attachment)
6. Oil Gravity (API) or Gas BTU Content	BTU 1167		BTU 1054
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 ☐ 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 Sean Woolverton TITLE: Reservoir Engineer DATE: 06-29-98

TYPE OR PRINT NAME Sean Woolverton TELEPHONE NO. (505) 326-9700

District I
PO Box 1990, Hobbs, NM 88241-1990

District II
PO Drawer 00, Artesia, NM 88211-0719

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 21,
Instructions of
Submit to Appropriate District
State Lease - 4
Fee Lease - 3

☐ AMENDED REF

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-		Pool Code 72319/71599	Pool Name Blanco Mesaverde/Basin Dakota
Property Code 7452	Property Name SAN JUAN 27-4 UNIT		Well Number 14M
GRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		Elevation 6714'

10 Surface Location

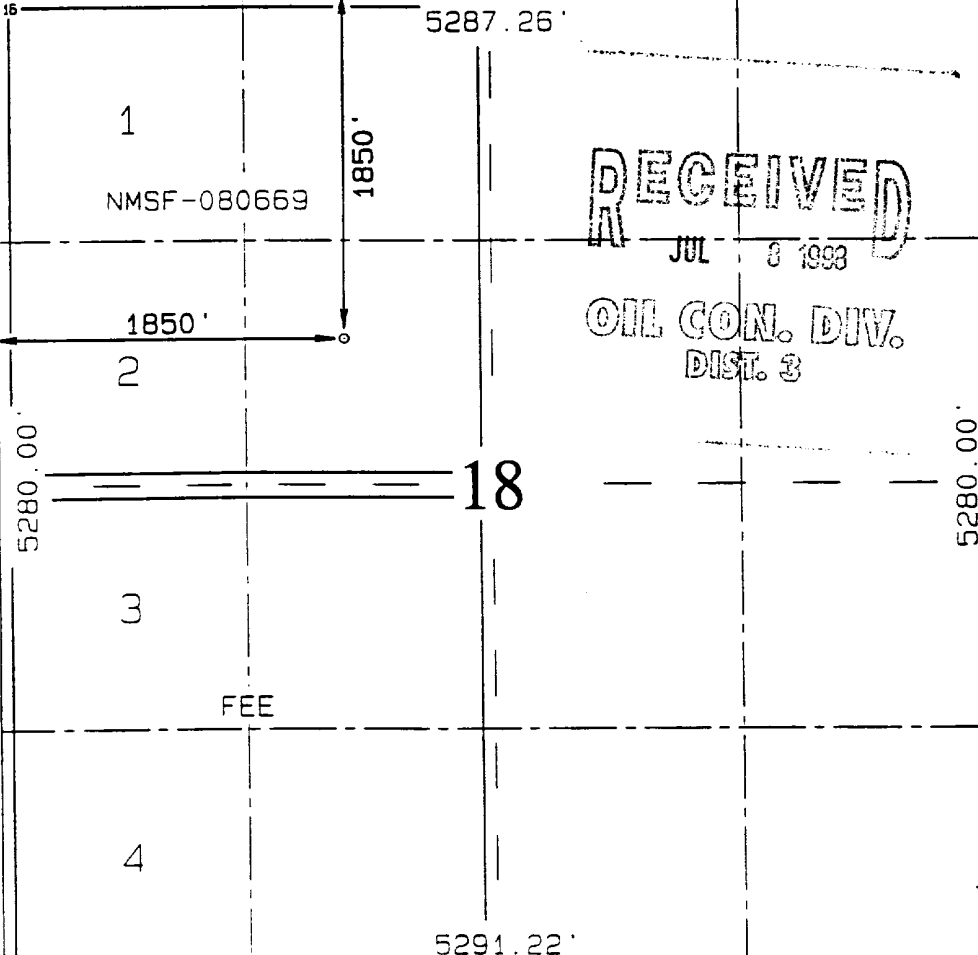
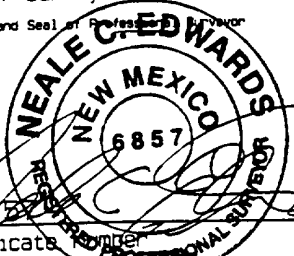
UL or lot no. F	Section 18	Township 27N	Range 4W	Lot 10n	Feet from the 1850	North/South line NORTH	Feet from the 1850	East/West line WEST	Count RI ARRI
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11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 10n	Feet from the	North/South line	Feet from the	East/West line	Count
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12 Dedicated Acres MV-W/321.12, DK-W/321.12	13 Joint or Infill	14 Consolidation Code	15 Order No.
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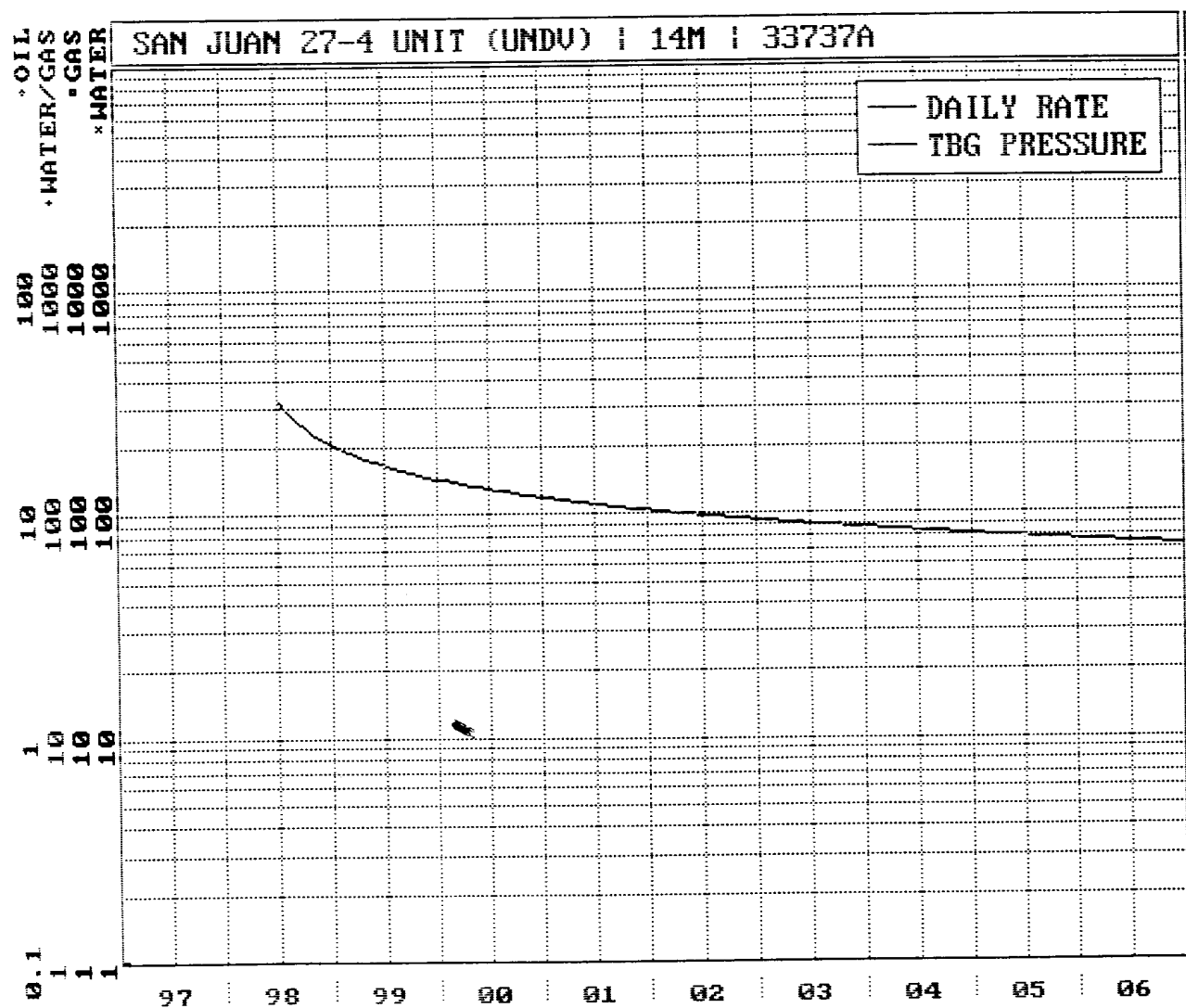
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	17 OPERATOR CERTIFICATE I hereby certify that the information contained hereon is true and complete to the best of my knowledge and belief. Signature Peggy Bradfield Printed Name Regulatory Administrator Title Date
	18 SURVEYOR CERTIFICATE I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made or under my supervision and that the same is true and correct to the best of my belief. FEBRUARY 10, 1998 Date of Survey Signature and Seal of Professional Surveyor 

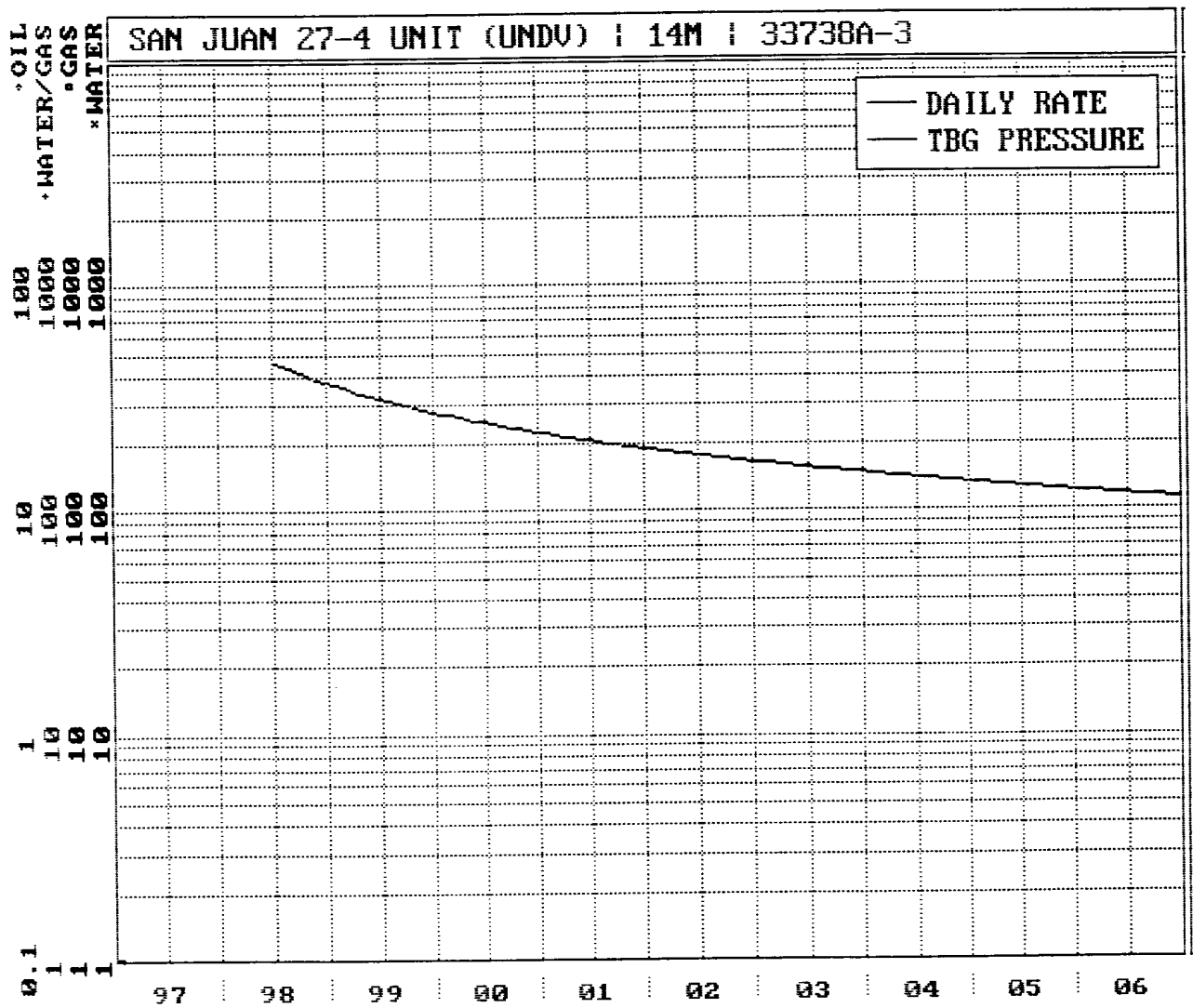
San Juan 27-4 Unit #14M

Expected Production Curve

Blanco Mesaverde



San Juan 27-4 Unit #14M
Expected Production Curve
Basin Dakota



SJ 27-4 Unit #14M
 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	0.685	GAS GRAVITY	0.62
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.53	%N2	0.36
%CO2	0.84	%CO2	1.48
%H2S	0	%H2S	0
DIAMETER (IN)	1.25	DIAMETER (IN)	2.375
DEPTH (FT)	5701	DEPTH (FT)	7963
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)	530	SURFACE PRESSURE (PSIA)	774
BOTTOMHOLE PRESSURE (PSIA)	612.1	BOTTOMHOLE PRESSURE (PSIA)	920.8
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.685	GAS GRAVITY	0.62
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.53	%N2	0.36
%CO2	0.84	%CO2	1.48
%H2S	0	%H2S	0
DIAMETER (IN)	1.25	DIAMETER (IN)	2.375
DEPTH (FT)	5701	DEPTH (FT)	7963
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)	1142	SURFACE PRESSURE (PSIA)	2569
BOTTOMHOLE PRESSURE (PSIA)	1339.8	BOTTOMHOLE PRESSURE (PSIA)	3100.5

Page No.: 2
Print Time: Fri Jan 16 10:58:57 1998
Property ID: 1631
Property Name: SAN JUAN 27-4 UNIT | 41 | 51788A-1
Table Name: K:\ARIES\RR98PDP\TEST.DBF

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San Juan 27-4 #14m
Dakota Offset

09/19/68	2569.0	- original
05/29/69	2359.0	
06/09/70	1235.0	
05/03/71	1390.0	
02/09/72	1484.0	
05/16/73	1204.0	
06/23/75	967.0	
07/06/77	843.0	
05/05/80	899.0	
05/21/81	931.0	
09/22/83	1007.0	
06/06/85	941.0	
05/19/88	1235.0	
05/30/90	924.0	
07/28/92	774.0	- current

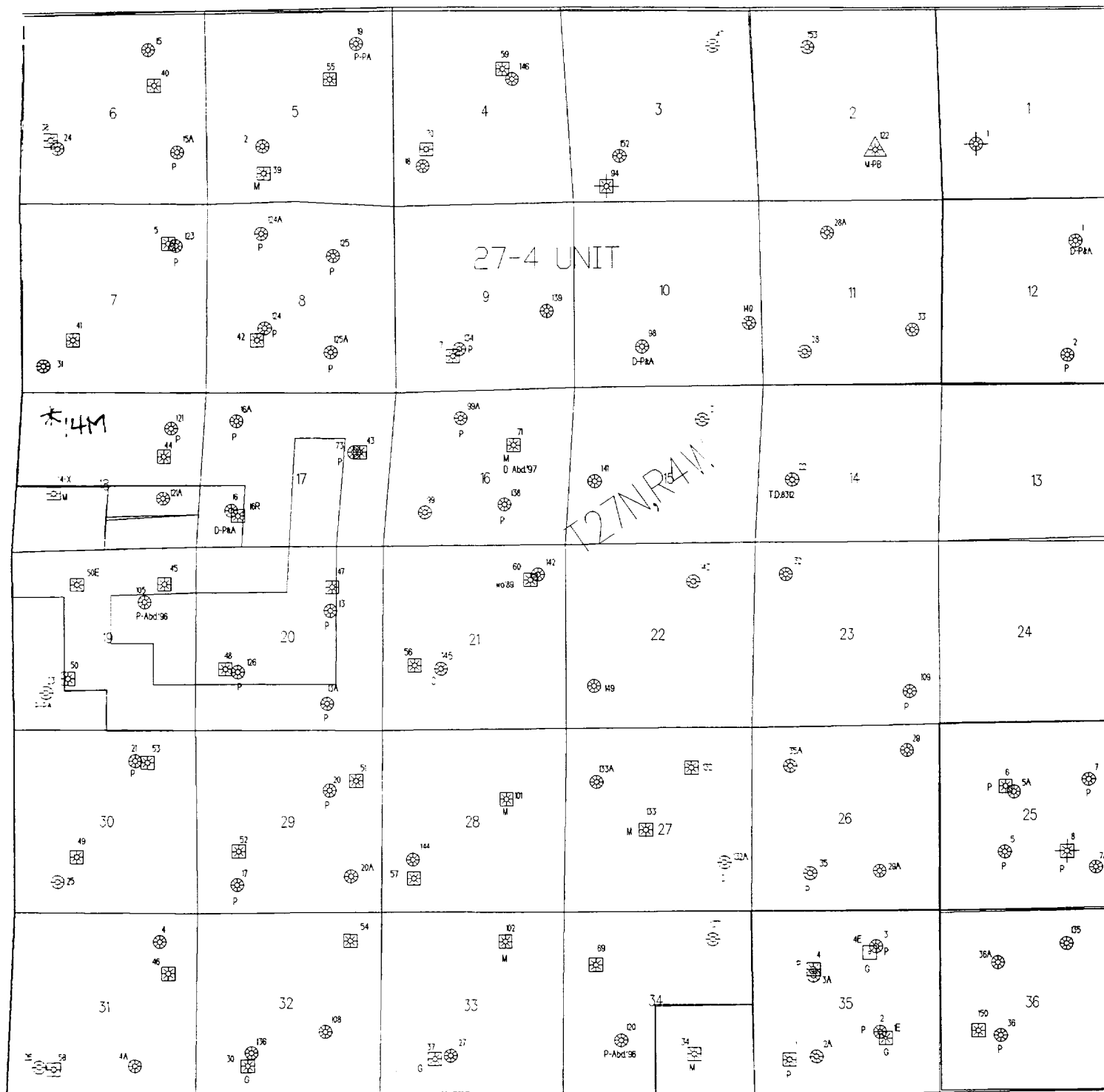
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San Juan 27-4 #14M
Mesaverde Offset

07/20/61	1142.0	-original
08/16/61	1132.0	
12/12/62	813.0	
04/19/63	801.0	
04/29/64	708.0	
07/29/65	655.0	
08/01/66	688.0	
08/04/67	627.0	
05/10/68	642.0	
10/07/70	579.0	
07/22/71	534.0	
06/06/72	522.0	
06/04/74	462.0	
06/25/76	479.0	
08/02/78	482.0	
06/04/80	442.0	
04/30/82	492.0	
05/03/84	540.0	
10/21/86	524.0	
09/04/89	690.0	
02/21/91	542.0	
04/11/91	554.0	
05/03/93	530.0	- current

San Juan 27-4 Unit #14M
Blanco Mesaverde/ Basin Dakota
27N-4W-18D



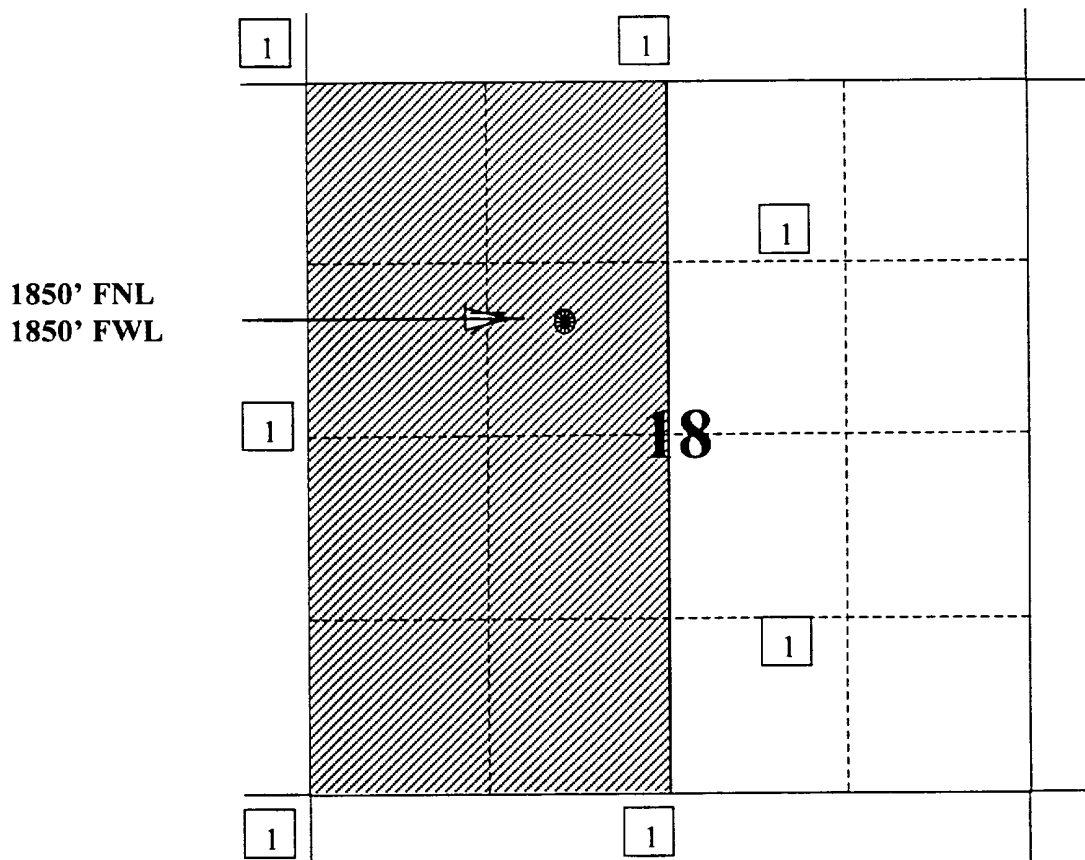
BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 27-4 Unit #14M

OFFSET OPERATOR/OWNER PLAT

Mesaverde / Dakota Formations Commingle Well

Township 27 North, Range 4 West



1) Burlington Resources