

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 DIVISION2040 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

54

A 32-27N-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. 30-039-20141

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. 595 psi (see attachment) (Original) b. 1436 psi (see attachment)	a. b. RECEIVED MAR 2 4 1999 OIL CON. DIV. DIST. 3	a. 1113 psi (see attachment) b. 3024 psi (see attachment)
6. Oil Gravity (API) or Gas BTU Content	BTU 1181		BTU 1236
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 communized 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). _____ attached

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

Wayne Fletcher

TITLE: Production Engineer

DATE: 03-08-99

TYPE OR PRINT NAME: Wayne Fletcher

TELEPHONE NO.: (505) 326-9700

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, 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 C
Revised February 21,
Instructions on
Submit to Appropriate District C
State Lease - 4 C
Fee Lease - 3 C

☐ AMENDED REP

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-20141		Pool Code 72319/71599	Pool Name Blanco Mesaverde/Basin Dakota
Property Code 7452	Property Name San Juan 27-4 Unit		Well Number 54
GRID No. 14538	Operator Name Burlington Resources Oil & Gas Company		Elevation 7143 GR

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	32	27N	4W		810	North	910	East	RA

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Area MV-E/320 DK-E/320	Joint or Infill	Consolidation Code	Order No.
--	-----------------	--------------------	-----------

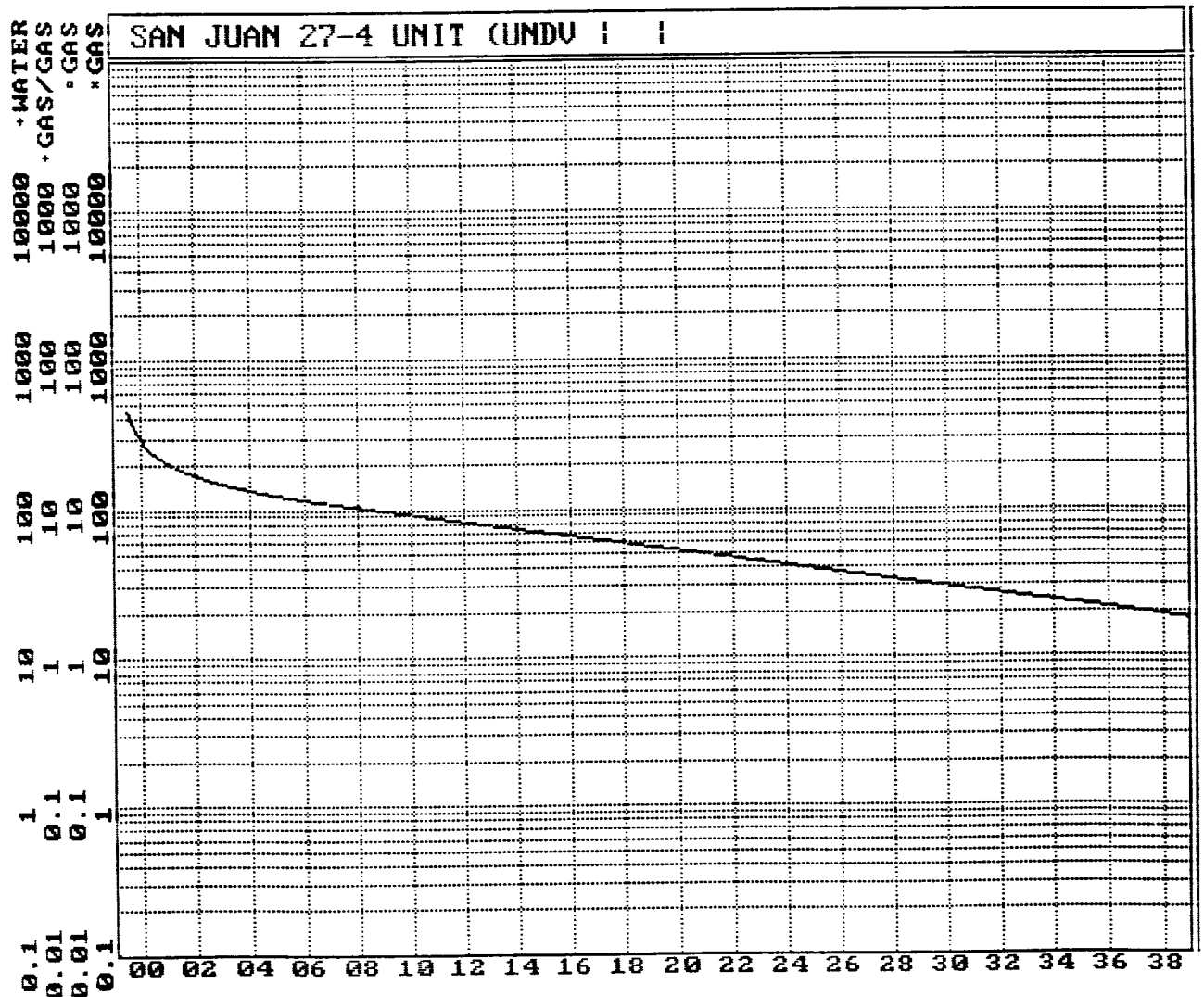
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16 Original plat from David O. Villen 7-24-68	17 OPERATOR CERTIFICATE I hereby certify that the information contained here is true and complete to the best of my knowledge and Signature Peggy Bradfield Printed Name Regulatory Administrator Title Date	18 SURVEYOR CERTIFICATE I hereby certify that the well location shown on this was plotted from field notes of actual surveys made or under my supervision, and that the same is true correct to the best of my belief. Date of Survey Signature and Seal of Professional Surveyor: Certificate Number		
			RECEIVED MAR 24 1999 OIL CON. DIV. DIST. 3	

San Juan 27-4 Unit #54

Expected Production Curve

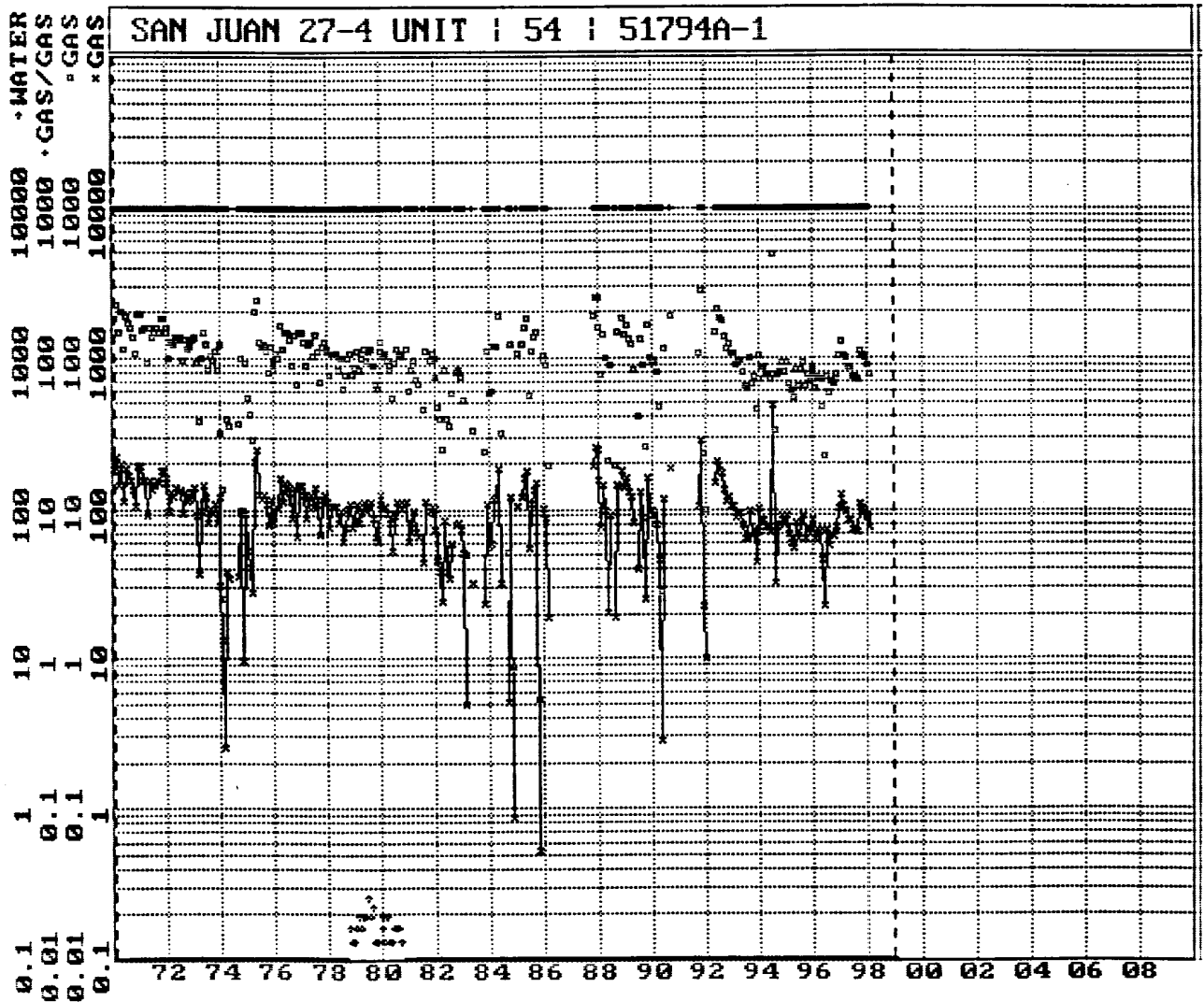
Mesaverde Formation



San Juan 27-4 Unit #54

Actual Production

Dakota Formation



San Juan 27-4 Unit #54

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	0.695	GAS GRAVITY	0.728
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.5	%N2	0.22
%CO2	0.89	%CO2	0.94
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	2.375
DEPTH (FT)	6557	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)	503	SURFACE PRESSURE (PSIA)	892
BOTTOMHOLE PRESSURE (PSIA)	594.9	BOTTOMHOLE PRESSURE (PSIA)	1112.7
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.695	GAS GRAVITY	0.728
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.5	%N2	0.22
%CO2	0.89	%CO2	0.94
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	2.375
DEPTH (FT)	6557	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)	1188	SURFACE PRESSURE (PSIA)	2372
BOTTOMHOLE PRESSURE (PSIA)	1435.5	BOTTOMHOLE PRESSURE (PSIA)	3024.0

Page No.: 1
 Print Time: Tue Mar 02 16:05:23 1999
 Property ID: 1225
 Property Name: SAN JUAN 27-4 UNIT | 20A | 50224A-1
 Table Name: Q:\PUBLIC\GENTITY\GDPNOS\TEST.DBF

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

12/18/79	0	1188.0
12/08/80	21093	823.0
11/03/82	85797	651.0
11/03/86	147291	563.0
11/27/89	186941	493.0
03/17/90	192630	689.0
06/17/91	199979	491.0
07/01/91	199980	503.0

San Juan 27-4 Unit #54

Mesaverde Offset

Page No.: 1

Print Time: Tue Mar 02 16:05:13 1999

Property ID: 1267

Property Name: SAN JUAN 27-4 UNIT | 54 | 51794A-1

Table Name: Q:\PUBLIC\GENTITY\GDPNOS\TEST.DBF

--DATE-- ---CUM_GAS-- M SIWHP
Mcf Psi

10/16/68	0	2372.0
06/13/69	30546	1405.0
06/24/70	107646	1040.0
05/18/71	159044	921.0
06/13/72	216124	812.0
07/06/77	396984	822.0
05/01/79	461922	821.0
06/01/81	526538	723.0
05/20/85	605428	972.0
04/22/90	726234	983.0
06/15/93	801881	892.0

San Juan 27-4 Unit #54

Existing Dakota

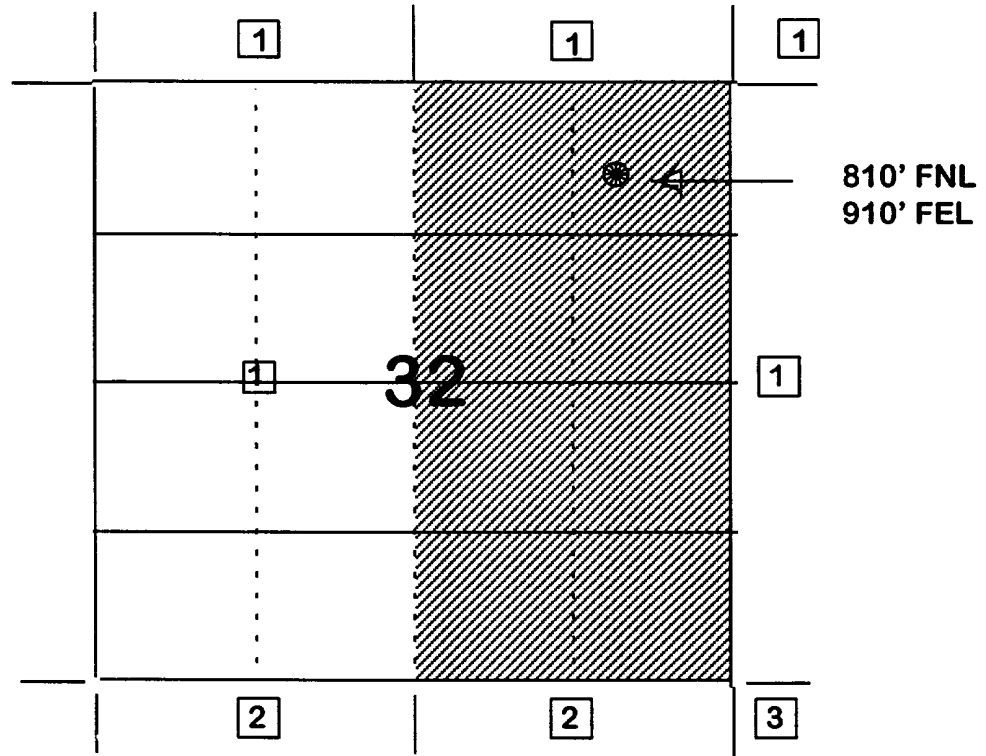
BURLINGTON RESOURCES OIL AND GAS COMPANY

**San Juan 27-4 Unit #54
OFFSET OPERATOR \ OWNER PLAT**

Mesaverde/Dakota Formations

Commingled well

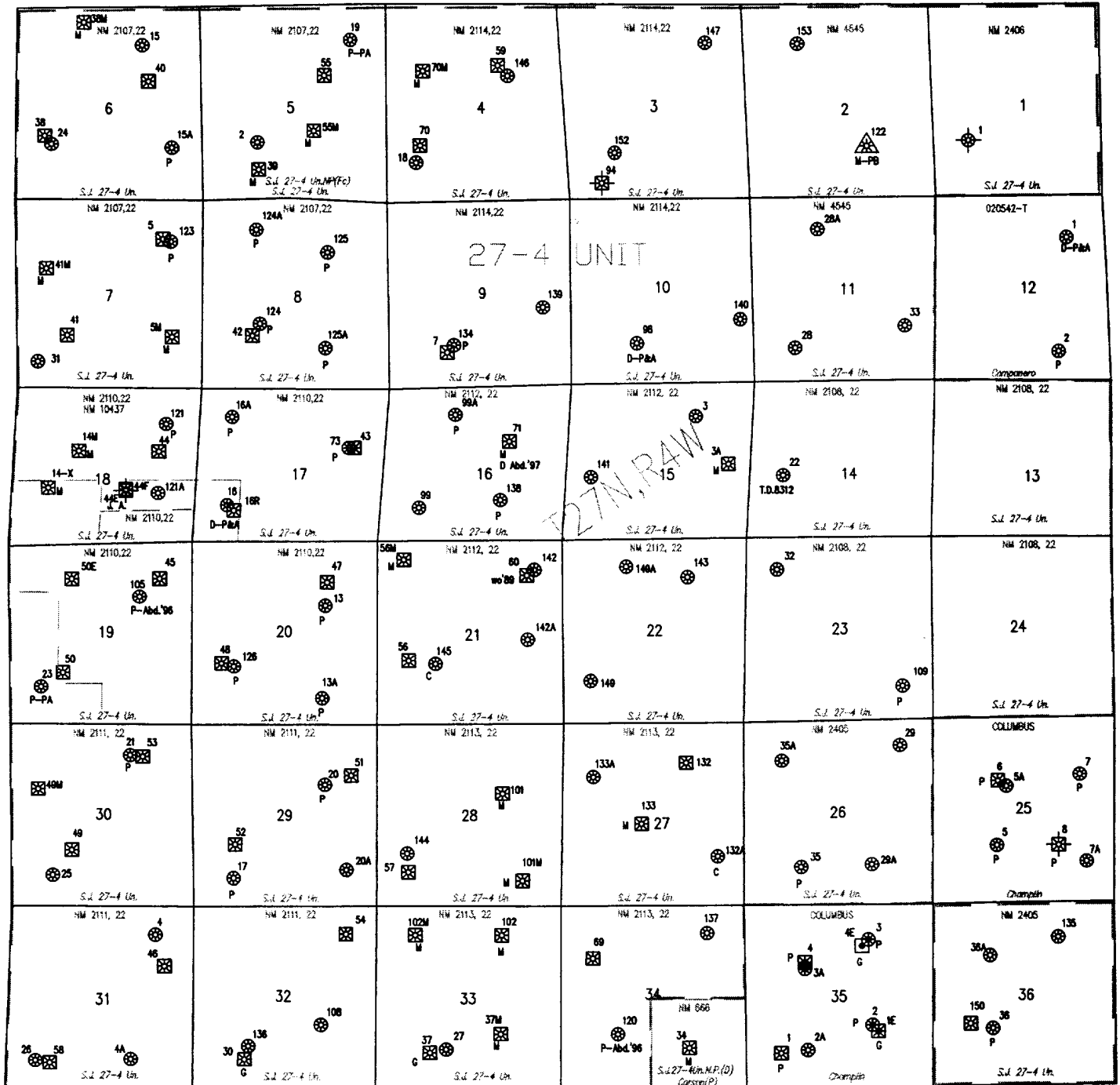
Township 27 North, Range 4 West



1) Burlington Resources
2) Greystone Resources, Inc.
PO Box 101831
Denver, Colorado 80250-1831

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

San Juan 27-4 Unit #54
Blanco Mesaverde / Basin Dakota
27N - 4W - 32



BURLINGTON
RESOURCES

SAN JUAN DIVISION
3535 East 30th Street: (87402-8801)
P.O. BOX 4289
Farmington, New Mexico 87499-4289

BURLINGTON
RESOURCES

SAN JUAN DIVISION
3535 East 30th Street: (87402-8801)
P.O. BOX 4289
Farmington, New Mexico 87499-4289

Cinco General Partnership
PO Box 451
Albuquerque, NM 87103-0451

x

Bedrock Limited Partners
PO Box 36480
Albuquerque, NM 87176

BURLINGTON
RESOURCES

SAN JUAN DIVISION
3535 East 30th Street: (87402-8801)
P.O. BOX 4289
Farmington, New Mexico 87499-4289

BURLINGTON
RESOURCES

SAN JUAN DIVISION
3535 East 30th Street: (87402-8801)
P.O. BOX 4289
Farmington, New Mexico 87499-4289

Tempe LTD Partnership
c/o F.E. & M. K. Harrington
652 Fearrington Post
Pittsboro, NC 27312

x

Harco LTD Partnership
PO Box 216
Roswell, NM 88202

BURLINGTON
RESOURCES

SAN JUAN DIVISION
3535 East 30th Street: (87402-8801)
P.O. BOX 4289
Farmington, New Mexico 87499-4289

BURLINGTON
RESOURCES

SAN JUAN DIVISION
3535 East 30th Street: (87402-8801)
P.O. BOX 4289
Farmington, New Mexico 87499-4289

James V. Harrington
PO Box 13535
Albuquerque, NM 87192

x

Mary Jone Chappell
PO Box 1865
Corrales, NM 87048