

DATE IN 3/23/99	SUSPENSE 4/12/99	ENGINEER DC	LOGGED BY RV	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



2014

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

MAR 23 1999
 OIL CONSERVATION DIVISION

[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

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	50	K 19-27N-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.	30-039-20155	Federal	x
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	(Current) a. 547 psi (see attachment)	a.	a. 1078 psi (see attachment)
Oil Zones - Artificial Lift: Estimated Current	(Original) b. 1323 psi (see attachment)	b.	b. 3193 psi (see attachment)
Gas & Oil - Flowing: Measured Current			
All Gas Zones: Estimated or Measured Original			
6. Oil Gravity (API) or Gas BTU Content	BTU 1196		BTU 1234
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	Date: n/a Rates:	Date: Rates:	Date: n/a Rates:
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data			
* If Producing, give data and oil/gas/water rates 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 ☐ 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

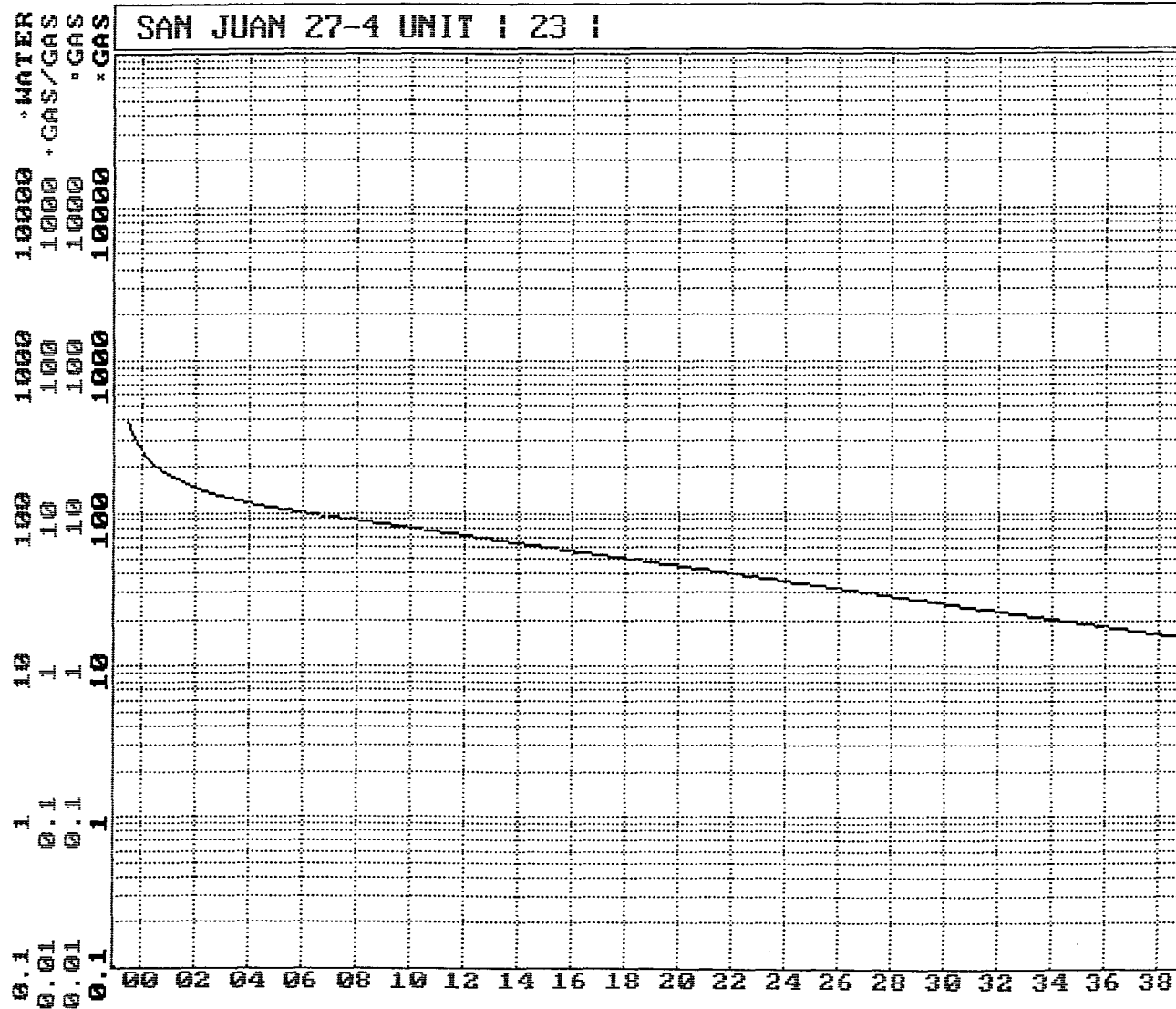
TELEPHONE NO.: (505) 326-9700

<div>16</div> <div>Original plat from David O. Vilven 9-26-68</div>		<div>17 OPERATOR CERTIFICATION</div> <div>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</div> <div>Signature</div> <div>Peggy Bradfield</div> <div>Printed Name</div> <div>Regulatory Administrator</div> <div>Title</div> <div>Date</div>
<div>1575'</div> <div>1520'</div>		<div>18 SURVEYOR CERTIFICATION</div> <div>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by or under my supervision, and that the same is true and correct to the best of my belief.</div> <div>Date of Survey</div> <div>Signature and Seal of Professional Surveyer:</div> <div>Certificate Number</div>

San Juan 27-4 Unit #50

Expected Production Curve

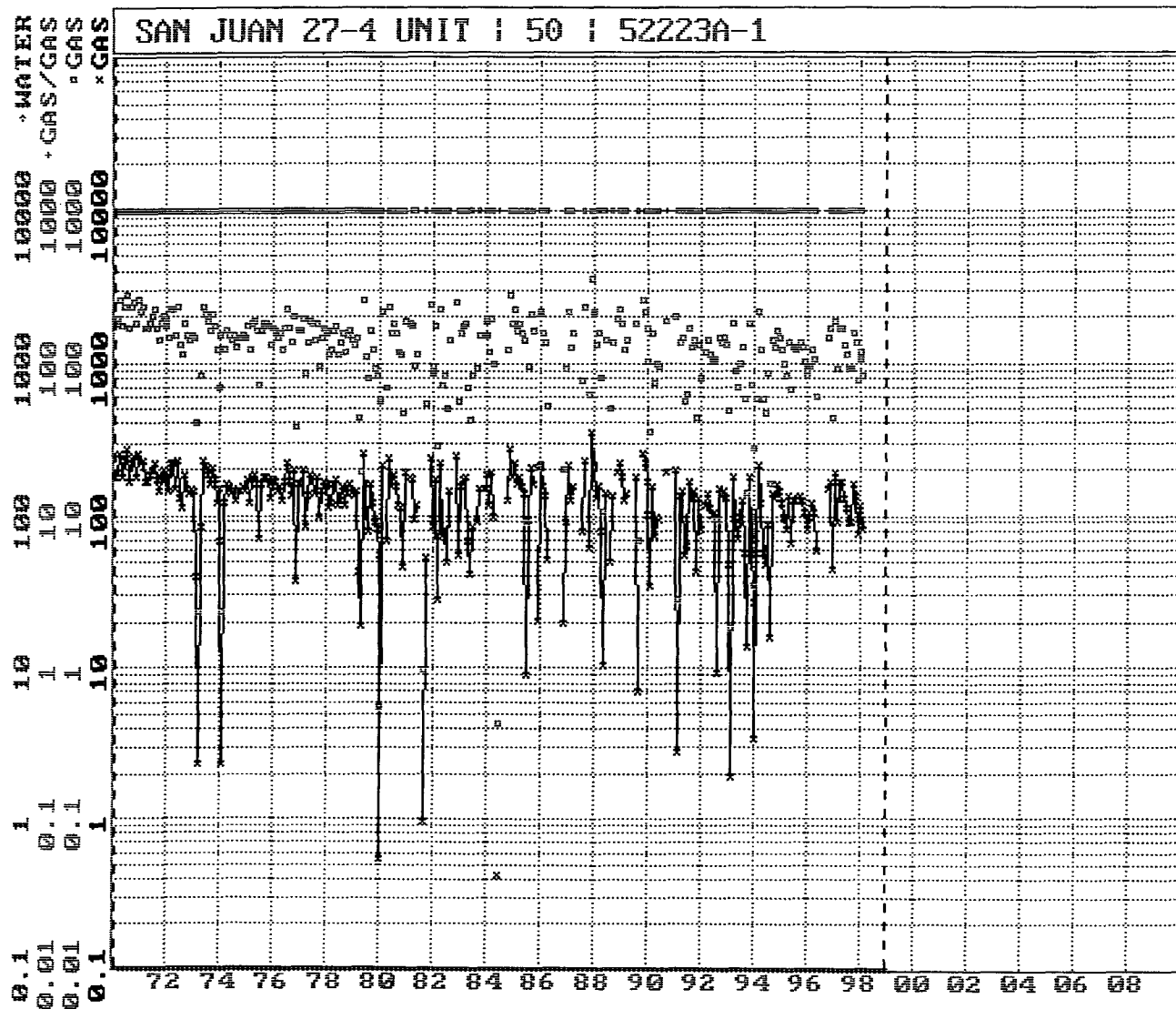
Mesaverde Formation



San Juan 27-4 Unit #50

Actual Production

Dakota Formation



San Juan 27-4 Unit #50

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 0.701	GAS GRAVITY 0.728
COND. OR MISC. (C/M) C	COND. OR MISC. (C/M) C
%N2 0.19	%N2 0.16
%CO2 0.89	%CO2 1.03
%H2S 0	%H2S 0
DIAMETER (IN) 2	DIAMETER (IN) 2.375
DEPTH (FT) 5710	DEPTH (FT) 8682
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) 472	SURFACE PRESSURE (PSIA) 853
BOTTOMHOLE PRESSURE (PSIA) 546.6	BOTTOMHOLE PRESSURE (PSIA) 1077.7
<u>MV-Original</u>	<u>DK-Original</u>
GAS GRAVITY 0.701	GAS GRAVITY 0.728
COND. OR MISC. (C/M) C	COND. OR MISC. (C/M) C
%N2 0.19	%N2 0.16
%CO2 0.89	%CO2 1.03
%H2S 0	%H2S 0
DIAMETER (IN) 2	DIAMETER (IN) 2.375
DEPTH (FT) 5710	DEPTH (FT) 8682
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) 1122	SURFACE PRESSURE (PSIA) 2470
BOTTOMHOLE PRESSURE (PSIA) 1323.2	BOTTOMHOLE PRESSURE (PSIA) 3193.3

Page No.: 1
Print Time: Tue Mar 02 13:33:08 1999
Property ID: 1228
Property Name: SAN JUAN 27-4 UNIT | 23 | 53316B-1
Table Name: Q:\PUBLIC\GENTITY\GDPNOS\TEST.DBF

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

11/16/59	0	1122.0
11/23/59	0	1109.0
10/06/60	26000	785.0
12/20/61	61000	650.0
08/06/62	73000	633.0
04/19/63	84000	630.0
10/22/64	105000	619.0
10/25/65	119000	561.0
04/19/66	126000	554.0
05/16/67	139000	550.0
05/02/68	149000	552.0
08/28/70	177163	502.0
04/08/71	185550	452.0
08/09/72	200982	448.0
12/06/83	311445	294.0
04/21/86	330787	394.0
09/08/89	350765	362.0
09/17/91	359451	460.0
10/01/91	359788	472.0

San Juan 27-4 Unit #50

Mesaverde Offset

Page No.: 1
 Print Time: Tue Mar 02 13:32:53 1999
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 Property Name: SAN JUAN 27-4 UNIT | 50 | 52223A-1
 Table Name: Q:\PUBLIC\GENTITY\GDPNOS\TEST.DBF

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

12/17/68	0	2470.0
09/02/69	83956	1094.0
08/28/70	143160	1115.0
04/08/71	195067	1039.0
08/09/72	283264	980.0
08/20/73	334530	1031.0
06/24/75	428192	1058.0
07/06/77	548242	832.0
11/01/79	661096	897.0
04/20/81	721462	801.0
09/21/83	800756	996.0
06/05/85	872120	874.0
04/21/86	910438	923.0
10/13/88	985334	928.0
04/22/90	1047949	884.0
07/28/92	1116789	853.0

San Juan 27-4 Unit #50

Existing Dakota

BURLINGTON
RESOURCES

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

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

x

Bedrock Limited Partners
PO Box 36480
Albuquerque, NM 87176

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

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Harco LTD Partnership
PO Box 216
Roswell, NM 88202

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James V. Harrington
PO Box 13535
Albuquerque, NM 87192

x

Mary Jone Chappell
PO Box 1865
Corrales, NM 87048

BURLINGTON RESOURCES OIL AND GAS COMPANY

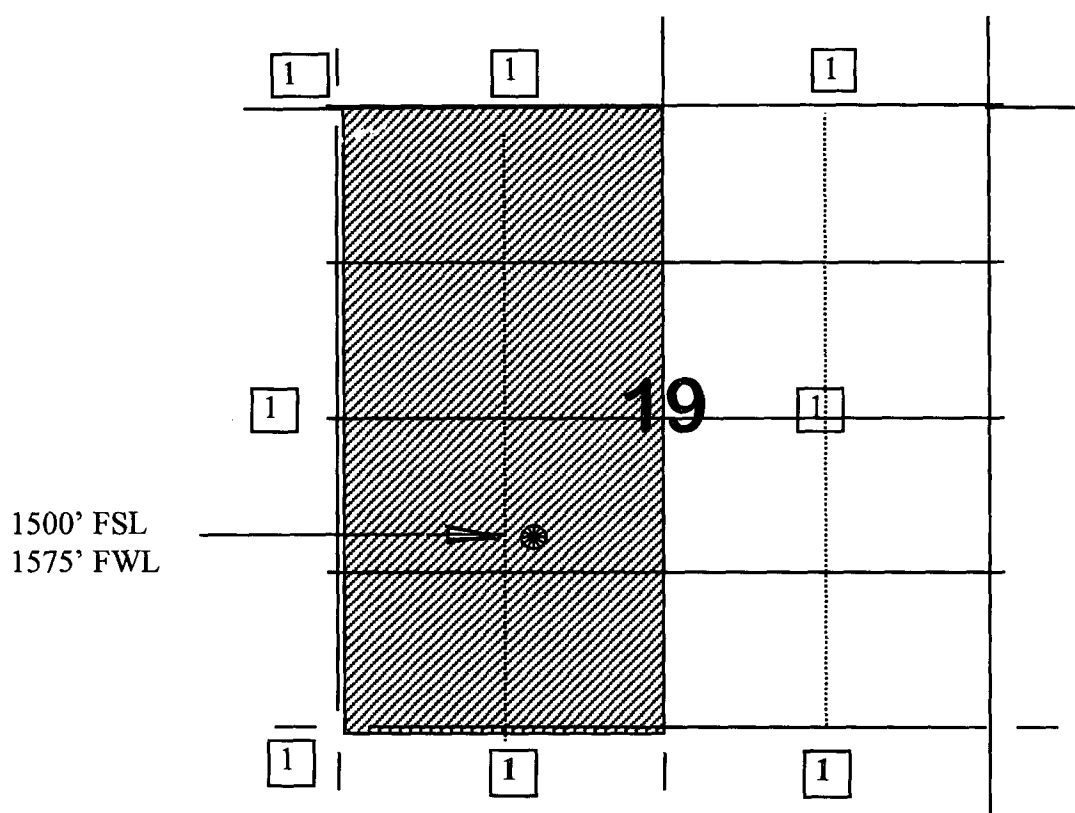
San Juan 27-4 Unit #50

OFFSET OPERATOR/OWNER PLAT

Mesaverde/Dakota Formations

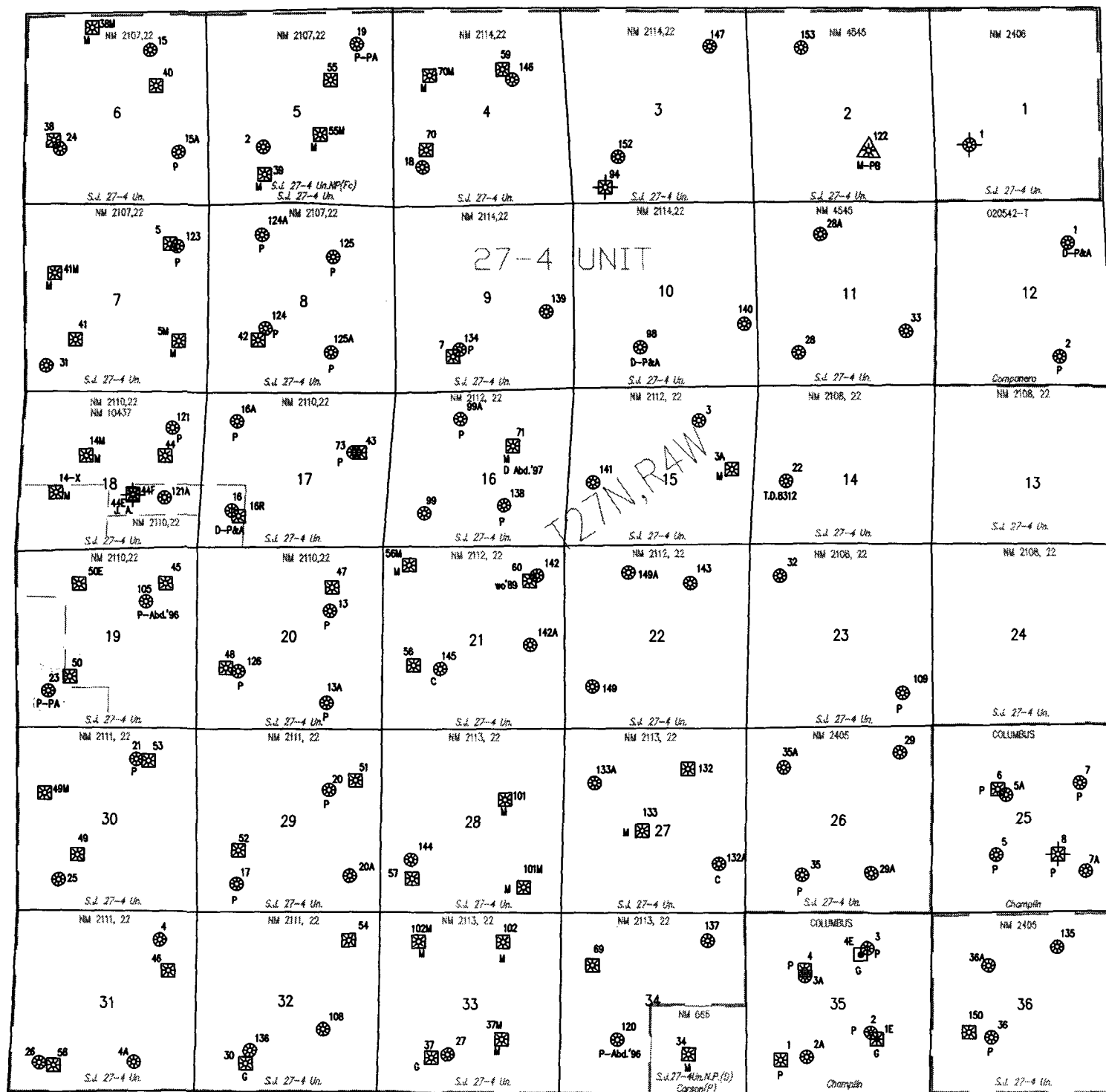
Commingled well

Township 27 North, Range 4 West



1) Burlington Resources

27N - 4W - 19



BURLINGTON
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