

ABOVE THIS LINE FOR DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Engineering Bureau -  
 2040 South Pacheco, Santa Fe, NM 87505



2064

**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]

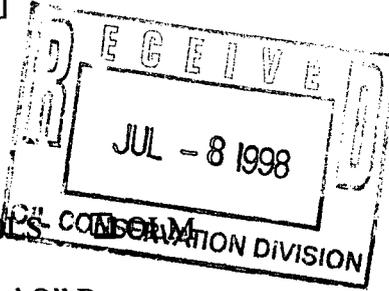
[1] **TYPE OF APPLICATION - Check Those Which Apply for [A]**

- [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

- [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 [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 87505-6429

Form 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 San Juan 27-4 Unit Address 41M E 07-27N-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. 559 psi (see attachment)	a.	a. 1085 psi (see attachment)
	(Original) b. 1378 psi (see attachment)	b.	b. 3151 psi (see attachment)
6. Oil Gravity (API) or Gas BTU Content	BTU 1187		BTU 1102
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 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) Reference Order 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 Sean Woolverton TITLE: Reservoir Engineer DATE: 06-29-98

TYPE 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 C-102  
 Revised February 21, 1994

Instructions on back  
 Submit to Appropriate District Office  
 State Lease - 4 Copies  
 Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number		2 Pool Code		3 Pool Name	
4 Property Code		5 Property Name <b>SAN JUAN 27-4 UNIT</b>			6 Well Number <b># 41M</b>
7 OGRID No.		8 Operator Name <b>BURLINGTON RESOURCES OIL &amp; GAS COMPANY</b>			9 Elevation <b>6993</b>

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
<b>E</b>	<b>7</b>	<b>27 N</b>	<b>4 W</b>		<b>1990</b>	<b>NORTH</b>	<b>870</b>	<b>WEST</b>	<b>RIO ARRIBA</b>

11 Bottom Hole Location If Different From Surface

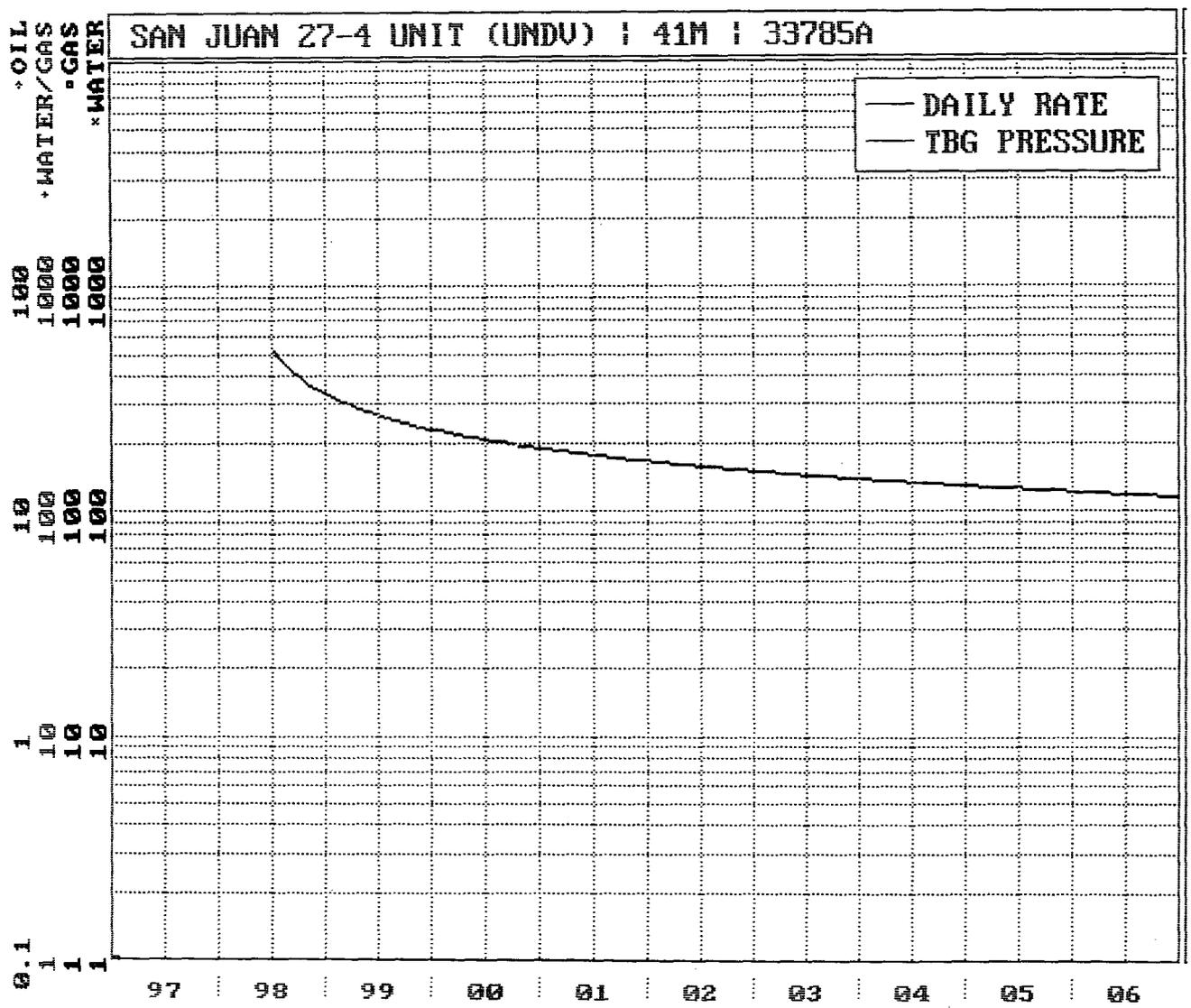
7 UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.

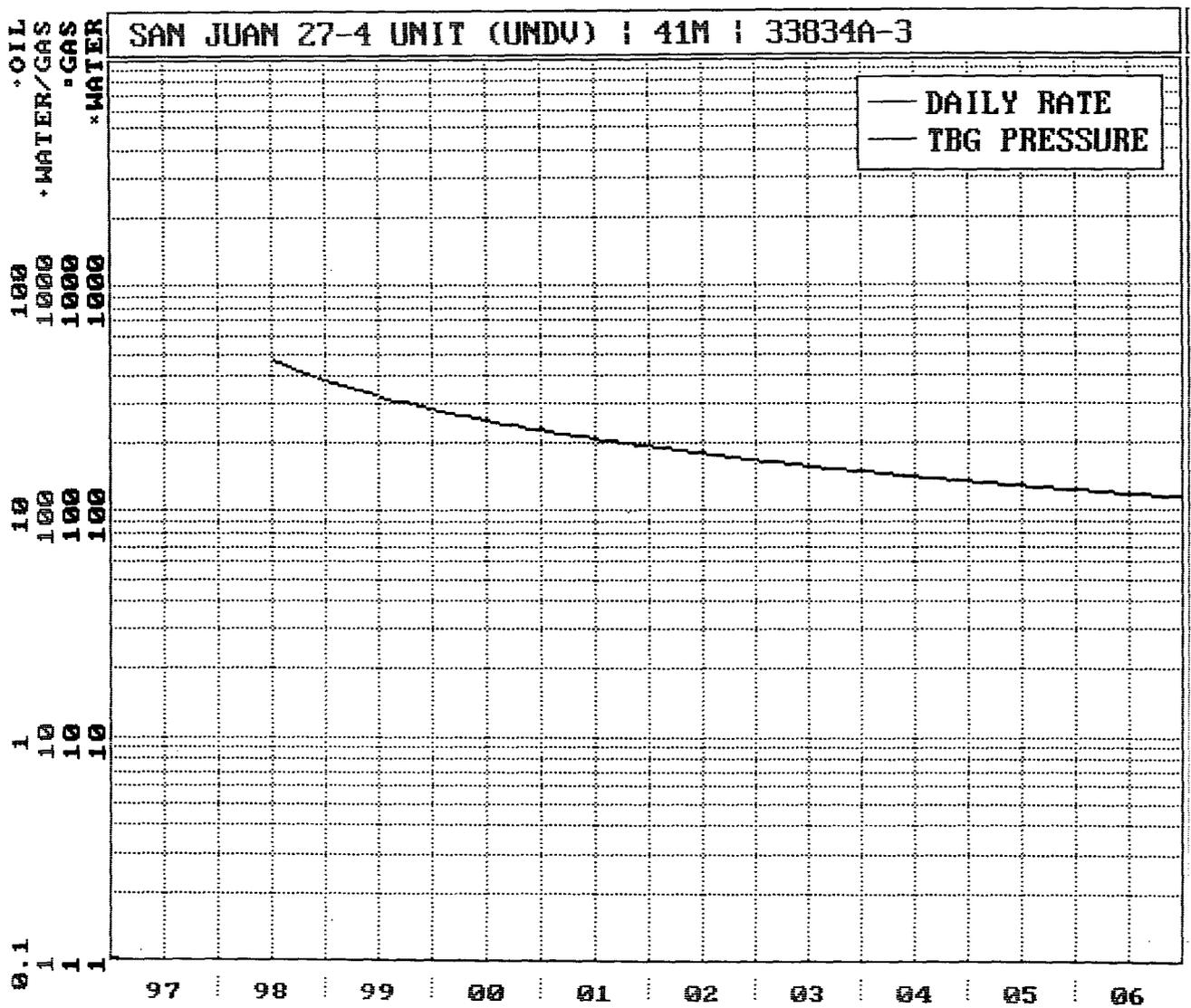
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTEREST HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

BLM Record	16	5298'(R)	7	5280'(R)	<b>17 OPERATOR CERTIFICATION</b>		
	Lot 1	<i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>			Signature _____		
	Lot 2	Printed Name _____			Title _____		
	Lot 3	Date _____			<b>18 SURVEYOR CERTIFICATION</b>		
2602'4"	1990'	870'	NMSF - 080673	7	5287'(R)	<i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i>	
2783'9"						<b>April 21, 1998</b>	
						Date of Survey	
						Signature and Seal of Professional Surveyor	
							
						7016 Certificate Number	

San Juan 27-4 Unit #41M  
 Expected Production Curve  
 Blanco Mesaverde



San Juan 27-4 Unit #41M  
 Expected Production Curve  
 Basin Dakota



**SJ 27-4 Unit #41M**  
 Bottom Hole Pressures  
 Flowing and Static BHP  
 Cullender and Smith Method  
 Version 1.0 3/13/94

<b>Mesaverde</b>		<b>Dakota</b>	
<u>MV-Current</u>		<u>DK-Current</u>	
GAS GRAVITY	0.699	GAS GRAVITY	0.644
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.46	%N2	0.16
%CO2	0.96	%CO2	1.18
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	2
DEPTH (FT)	6345	DEPTH (FT)	8312
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)	475	SURFACE PRESSURE (PSIA)	895
BOTTOMHOLE PRESSURE (PSIA)	558.9	BOTTOMHOLE PRESSURE (PSIA)	1085.4
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.699	GAS GRAVITY	0.644
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.46	%N2	0.16
%CO2	0.96	%CO2	1.18
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	2
DEPTH (FT)	6345	DEPTH (FT)	8312
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)	1147	SURFACE PRESSURE (PSIA)	2562
BOTTOMHOLE PRESSURE (PSIA)	1377.7	BOTTOMHOLE PRESSURE (PSIA)	3151.1

Page No.: 1

Print Time: Fri Jan 16 15:06:02 1998

Property ID: 3756

Property Name: SAN JUAN 27-4 UNIT | 123 | 53332A-1

Table Name: K:\ARIES\RR98PDP\TEST.DBF

--DATE-- M SIWHP  
■■■■■■■■■■ ■■■■Psi■■■

08/24/77	1147.0	-original
01/10/78	649.0	
11/10/78	539.0	
10/03/79	464.0	
06/04/80	432.0	
11/01/82	509.0	
06/21/84	472.0	
11/06/86	408.0	
08/07/89	668.0	
03/18/91	504.0	
06/07/91	516.0	
05/31/93	475.0	-current

San Juan 27-4 Unit #41M  

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MV Offset

Page No.: 1

Print Time: Fri Jan 16 15:04:54 1998

Property ID: 1640

Property Name: SAN JUAN 27-4 UNIT | 5 | 49505A-1

Table Name: K:\ARIES\RR98PDP\TEST.DBF

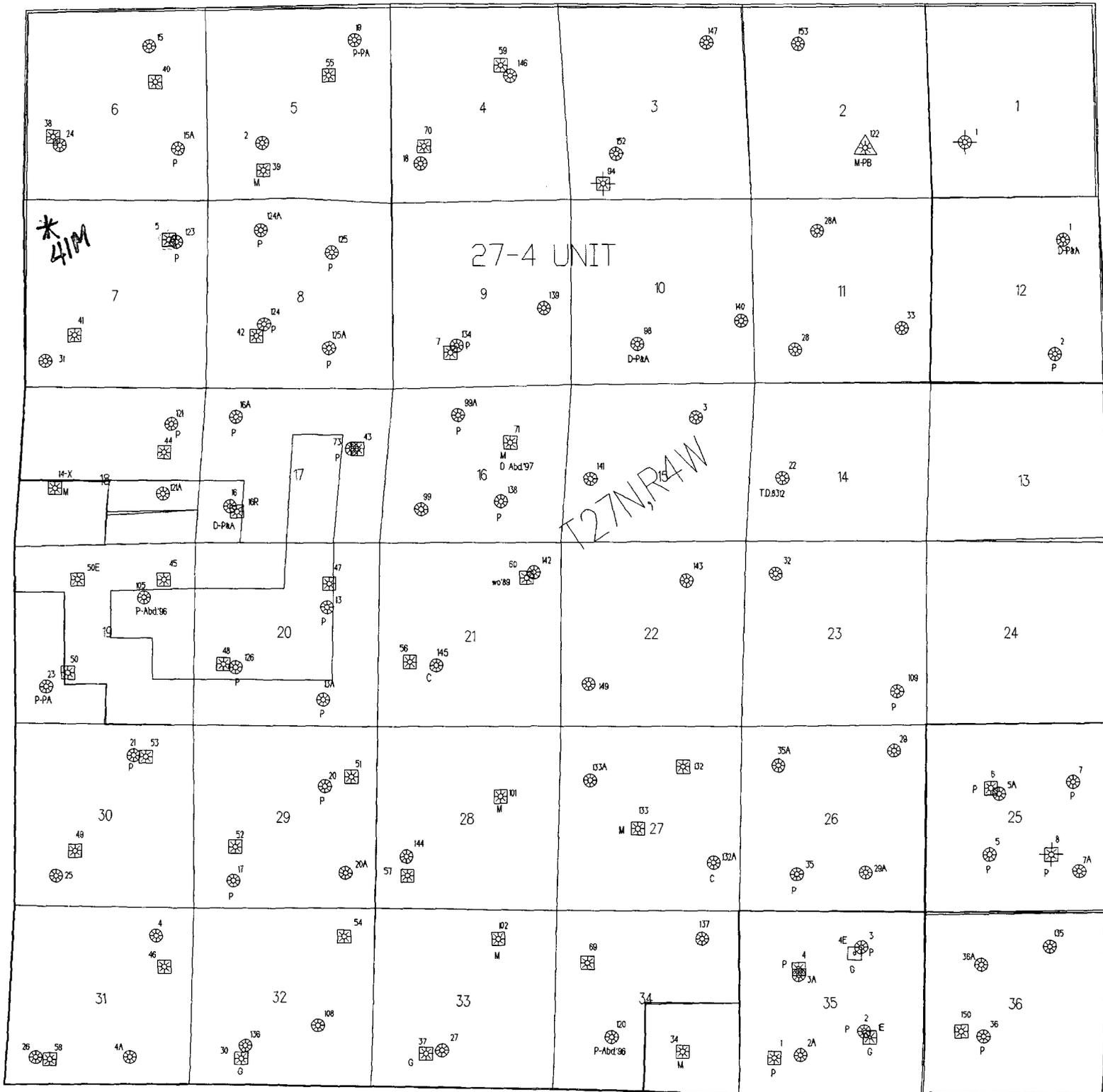
--DATE-- M SIWHP  
■■■■■■■■■■ ■■■Psi■■■

San Juan 27-4 Unit #41M

DK offset

09/14/55	2562.0	-original
06/14/59	1993.0	
09/22/60	1944.0	
06/13/61	1841.0	
07/31/62	1947.0	
01/07/63	1942.0	
01/02/64	1920.0	
01/26/65	1929.0	
08/01/66	1984.0	
08/04/67	1863.0	
05/10/68	1908.0	
06/09/70	1602.0	
05/03/71	1474.0	
05/30/72	1379.0	
06/23/75	1117.0	
07/06/77	1020.0	
10/03/79	690.0	
05/21/81	914.0	
06/06/85	895.0	-current

# San Juan 27-4 Unit #41M Blanco Mesaverde/ Basin Dakota 27N-4W-07D



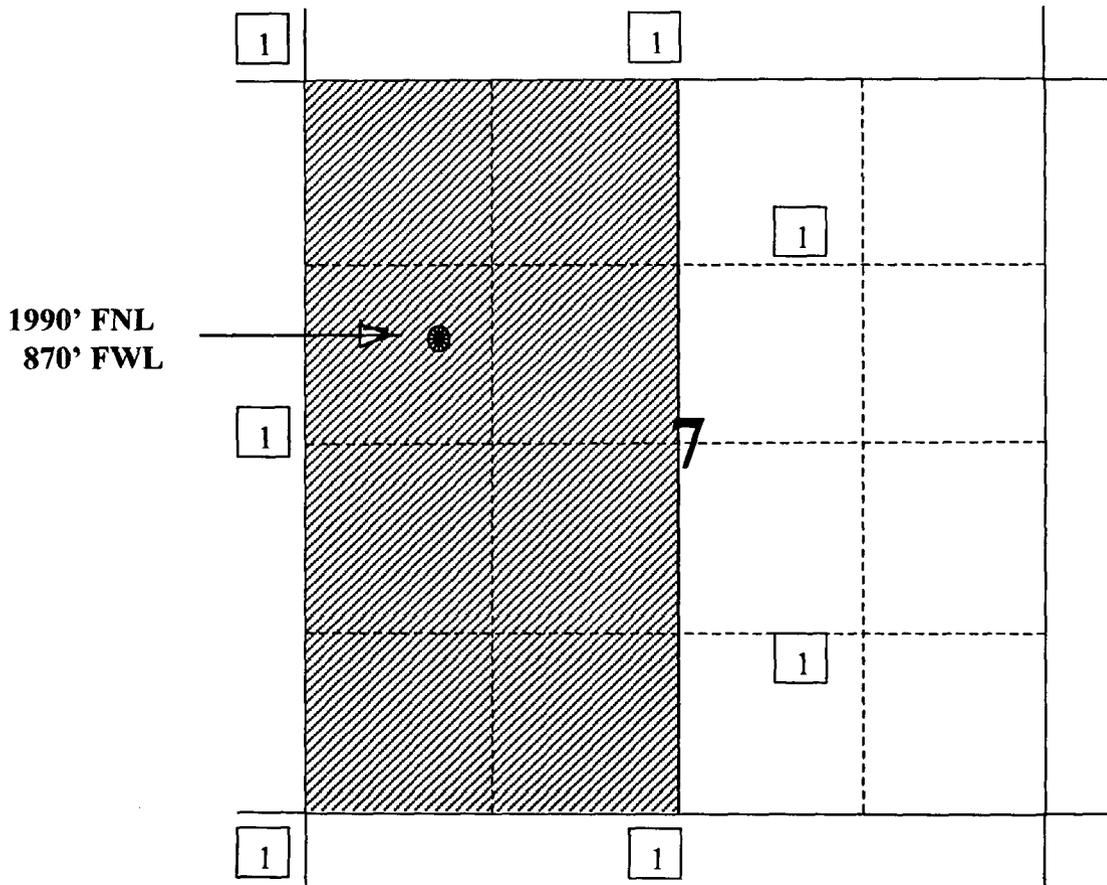
**BURLINGTON RESOURCES OIL AND GAS COMPANY**

**San Juan 27-4 Unit #41M**

**OFFSET OPERATOR/OWNER PLAT**

**Mesaverde / Dakota Formations Commingle Well**

**Township 27 North, Range 4 West**



1) Burlington Resources