

## 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 &amp; Gas Company

PO Box 4289, Farmington, NM 87499

Operator

Address

San Juan 27-4 Unit

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)  (Original) b. 1378 psi (see attachment)	a.  b.	a. 1085 psi (see attachment)  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  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:
	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. NMOC 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: 06-29-98TYPE 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 C-10  
Revised February 21, 1995  
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			6 Well Number
		SAN JUAN 27-4 UNIT			# 41M
7 OGRID No.		8 Operator Name			9 Elevation
		BURLINGTON RESOURCES OIL & GAS COMPANY			6993

10 Surface Location

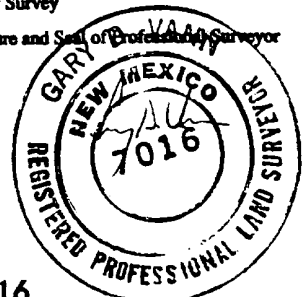
UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	7	27 N	4 W		1990	NORTH	870	WEST	RIO ARRIB.

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

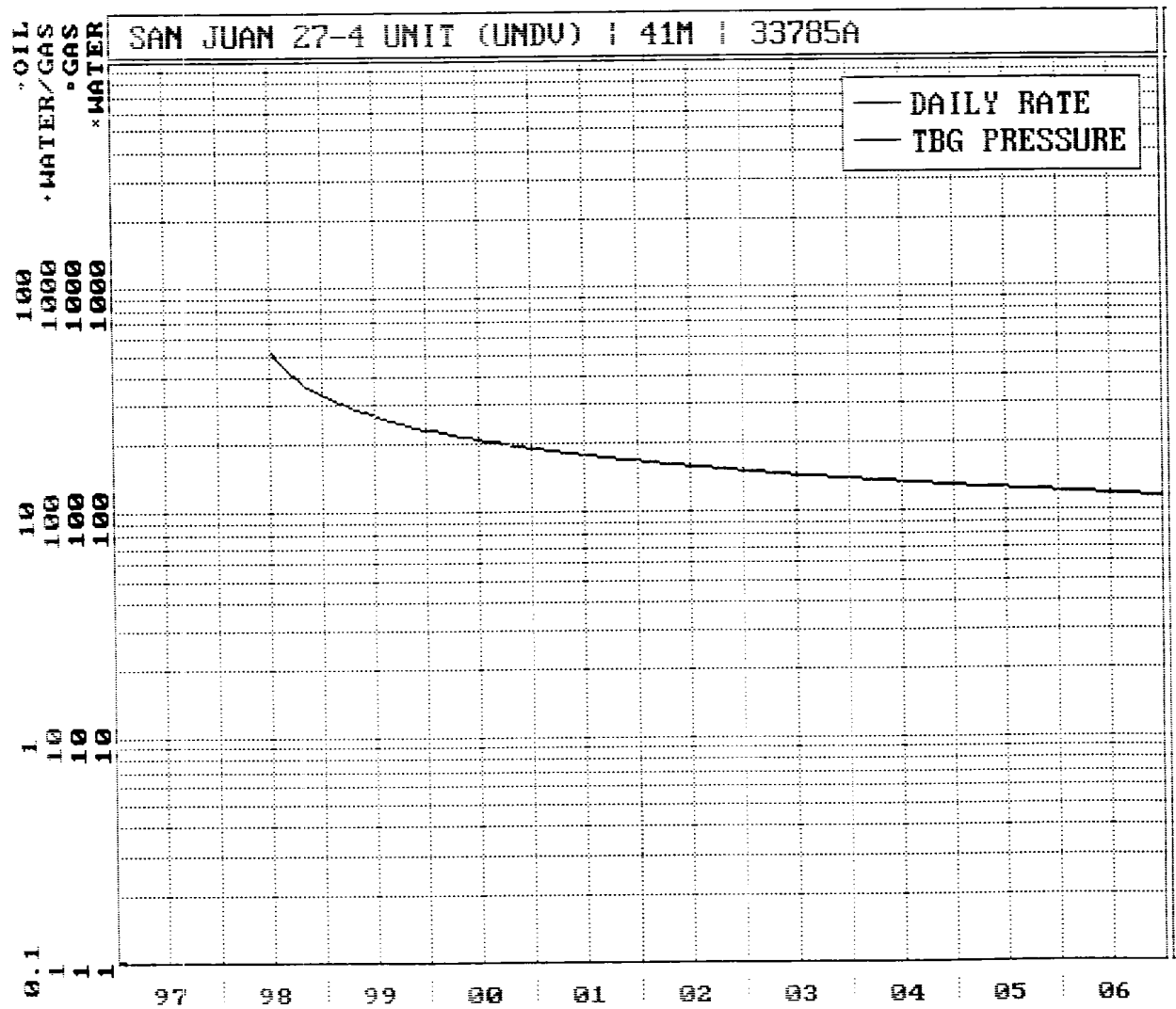
12 Dedicated Acres	13 Joint or in/for	14 Consolidation Code	15 Order No.

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	Lot 1	5298'(R)	7	5280'(R)	<b>17 OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein true and complete to the best of my knowledge and belief.  Signature _____ Printed Name _____ Title _____ Date _____	
	Lot 2	2602'4"				<b>18 SURVEYOR CERTIFICATION</b> 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.  Date of Survey <b>April 21, 1998</b> Signature and Seal of Professional Surveyor  7016 Certificate Number
	Lot 3	2783'9"				
	Lot 4	5287'(R)				

(R) - GLO Record

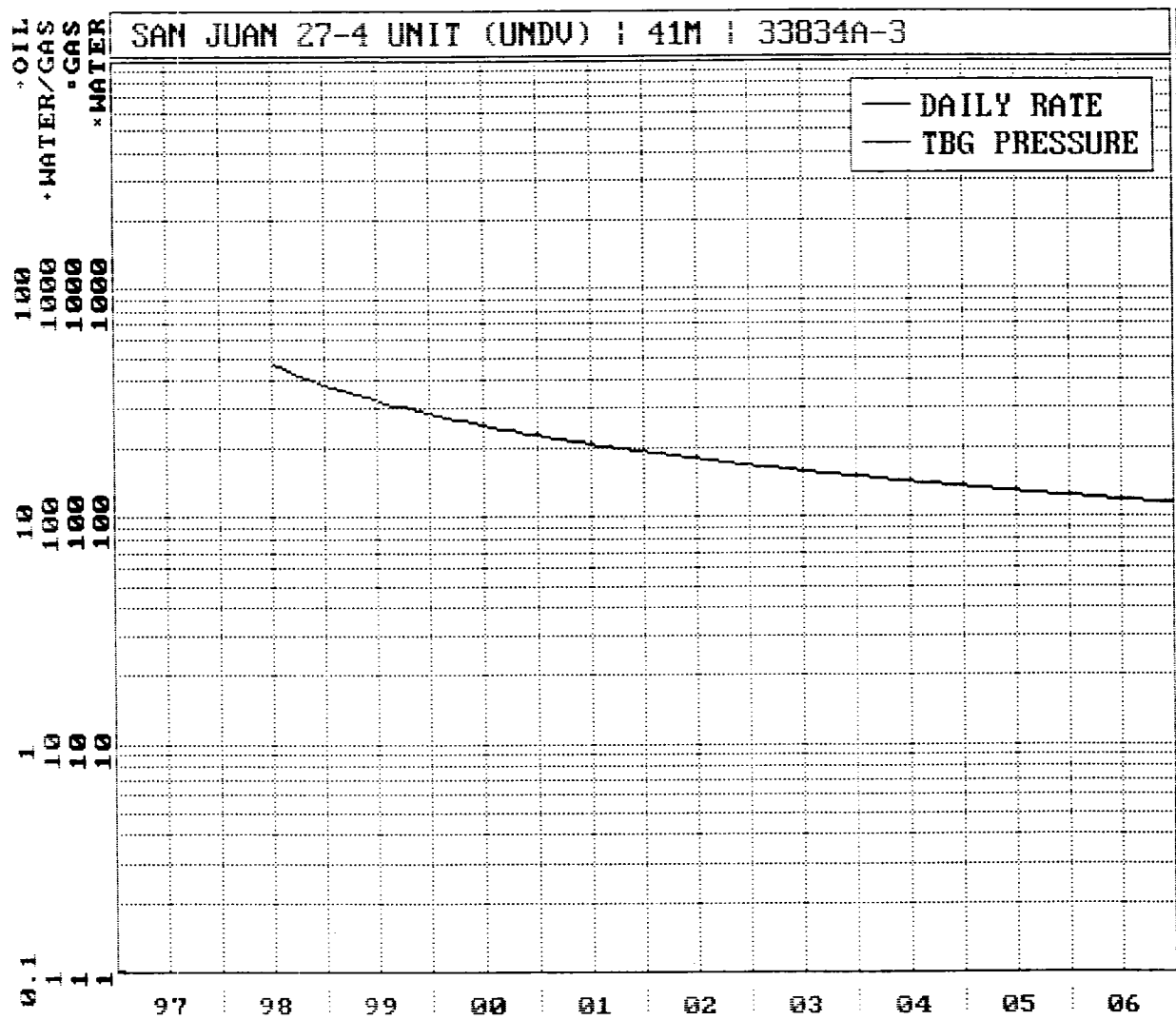
San Juan 27-4 Unit #41M  
Expected Production Curve  
Blanco Mesaverde



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><b>MV-Current</b></u>		<u><b>DK-Current</b></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><b>MV-Original</b></u>		<u><b>DK-Original</b></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
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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.....

San Juan 27-4 Unit #41M  
mv Offset

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

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

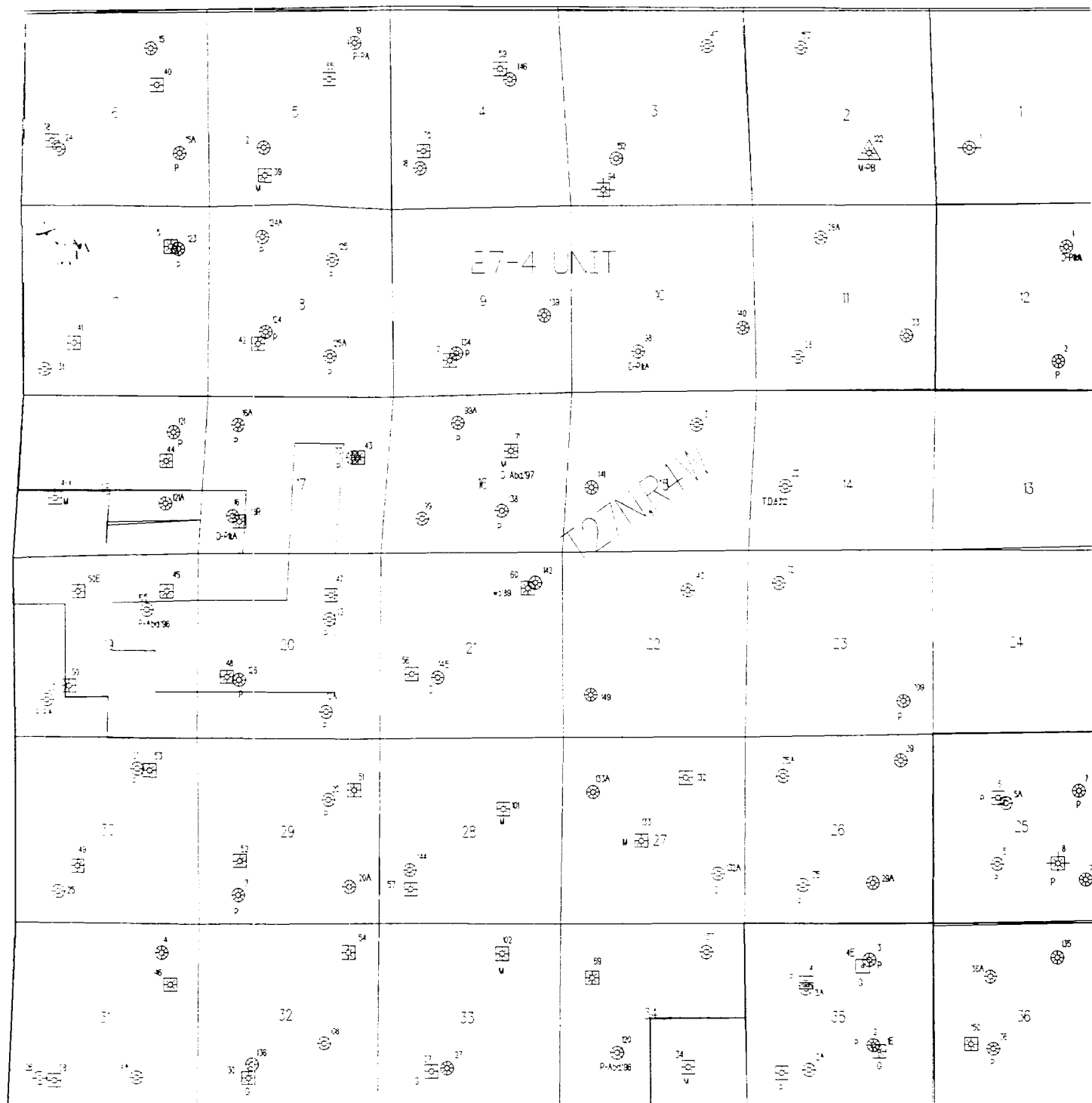
San Juan 27-4 Unit #41M

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

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





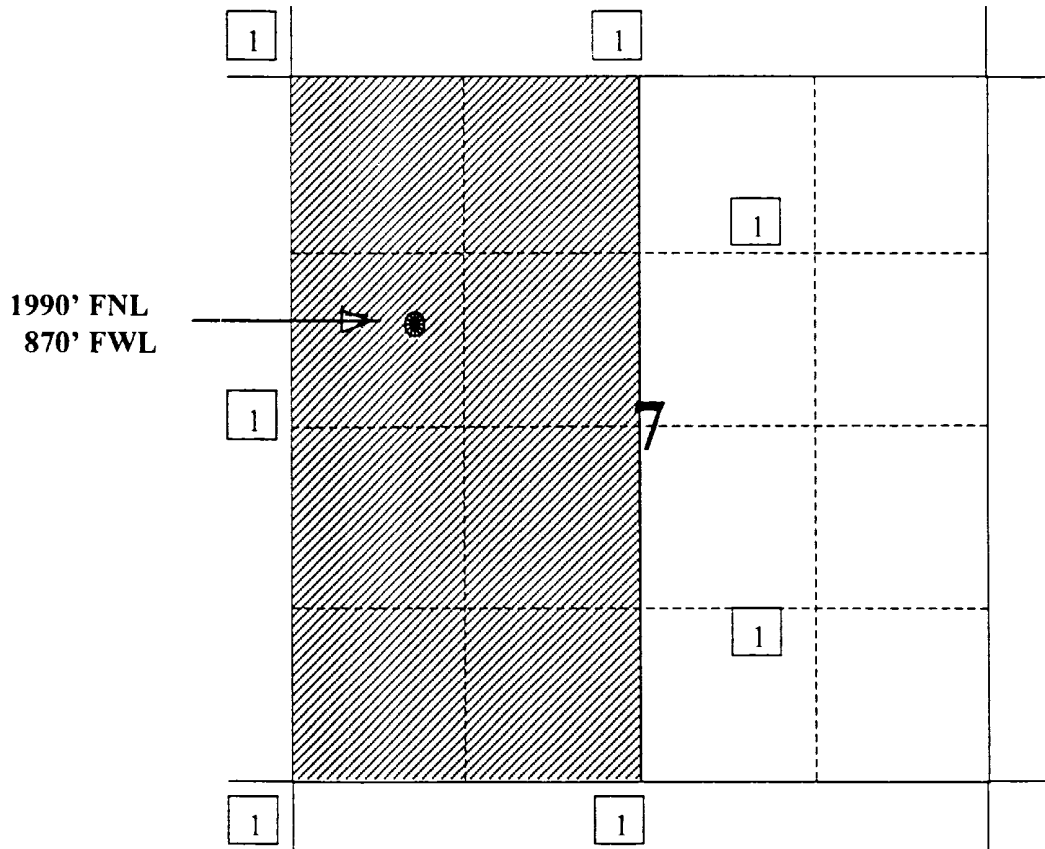
***BURLINGTON RESOURCES OIL AND GAS COMPANY***

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

**OFFSET OPERATOR/OWNER PLAT**

**Mesaverde / Dakota Formations Commingle Well**

**Township 27 North, Range 4 West**



1) Burlington Resources