

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

70M

E 04-27N-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: Gas & Oil - Flowing: All Gas Zones: Estimated or Measured Original	(Current) a. 614 psi (see attachment) (Original) b. 1415 psi (see attachment)		a. 1118 psi (see attachment) b. 3182 psi (see attachment)
6. Oil Gravity (API) or Gas BTU Content	BTU 1182		BTU 1015
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: 06-29-98TYPE 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-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 SAN JUAN 27-4 UNIT				6 Well Number # 70M	
7 OGRID No.		8 Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY				9 Elevation 7250	

10 Surface Location

UL or Lot No. E	Section 4	Township 27 N	Range 4 W	Lot Idn	Feet from the 1925	North/South line NORTH	Feet from the 1040	East/West line WEST	County RIO ARriba
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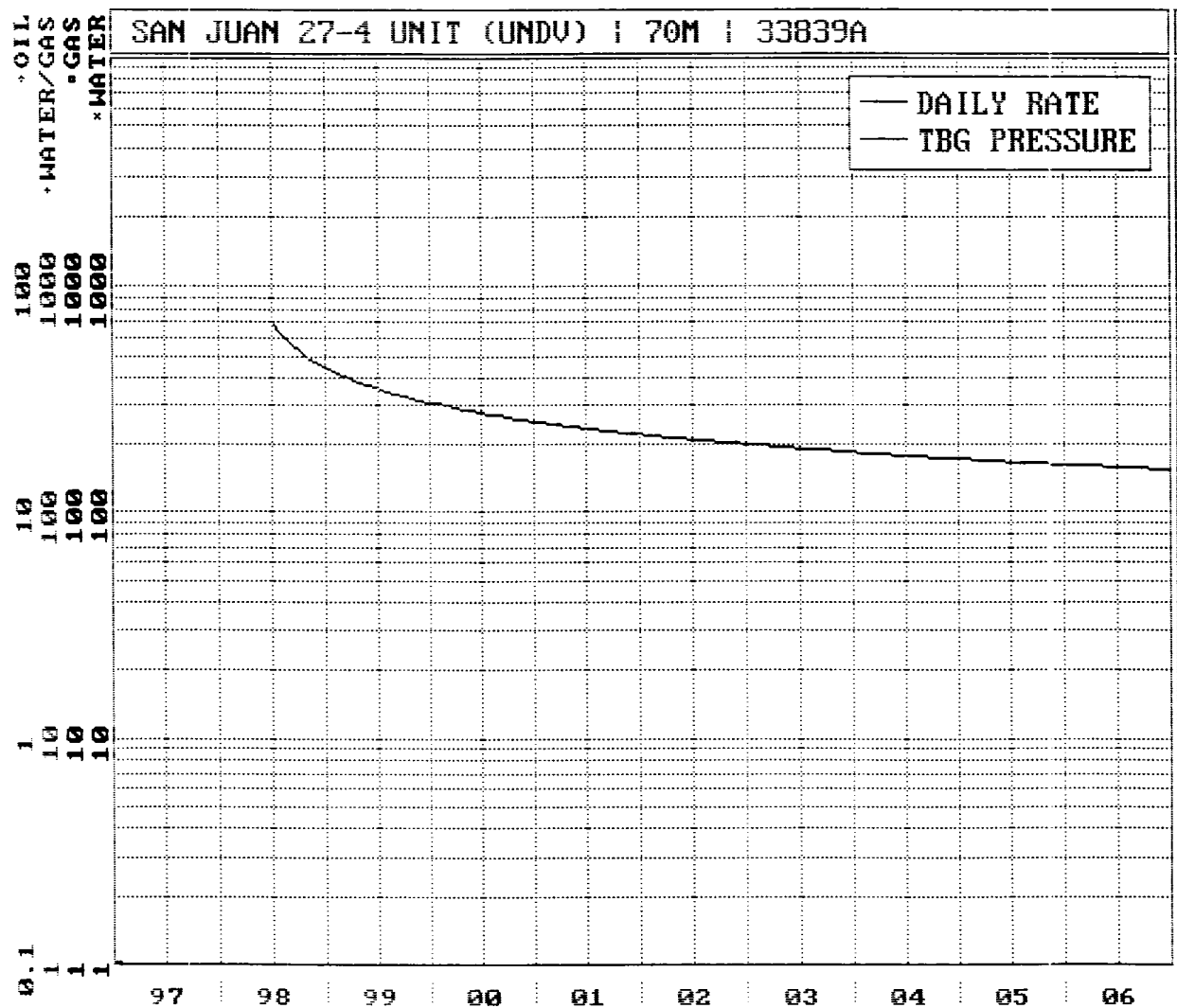
11 Bottom Hole Location If Different From Surface

12 UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
13 Dedicated Acres		14 Joint or Infill		15 Consolidation Code		16 Order No.			

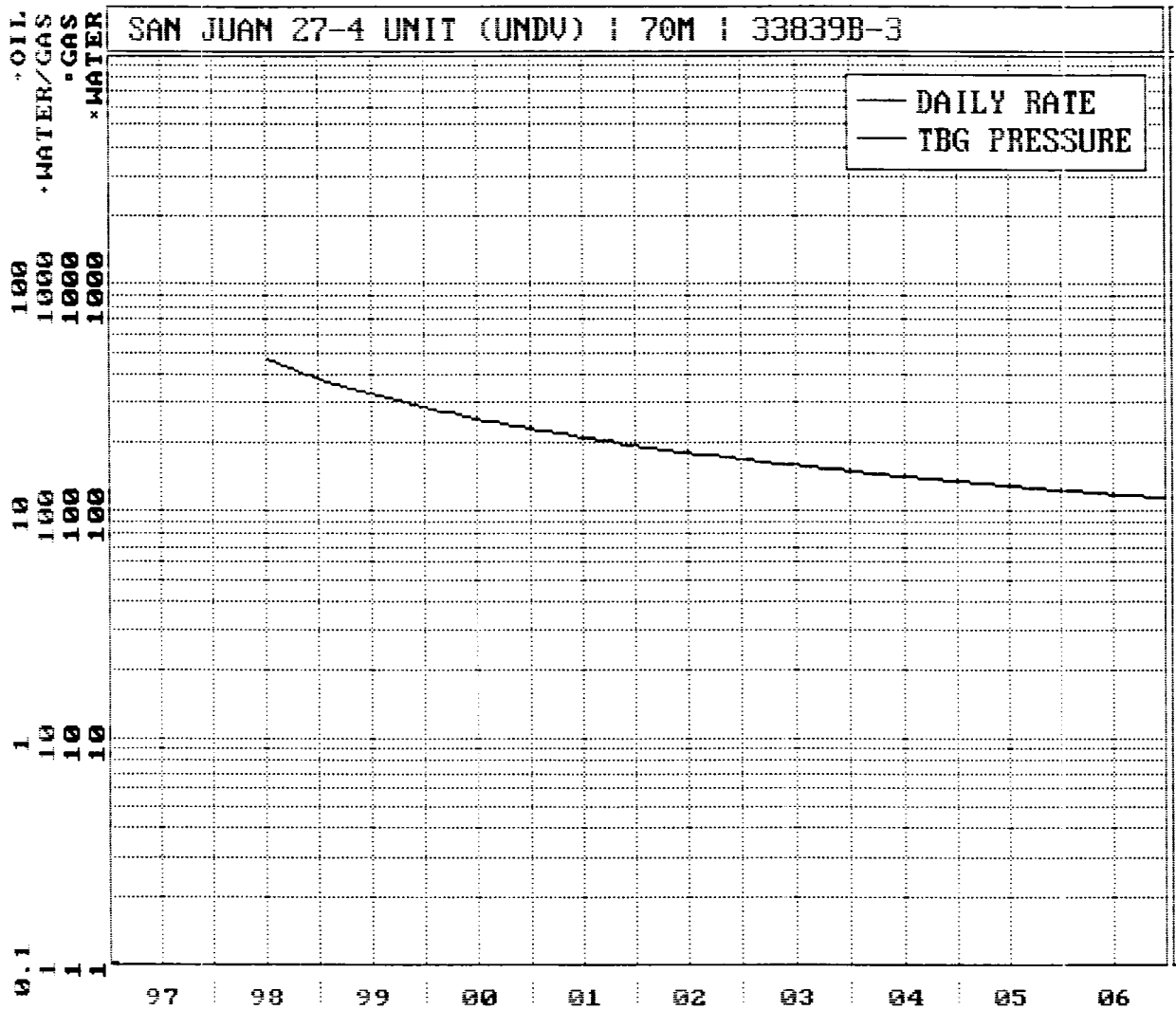
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTEREST HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

				17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature _____ Printed Name _____ Title _____ Date _____	
18 SURVEYOR CERTIFICATION 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. February 26, 1998 Date of Survey _____ Signature and Seal of Professional Surveyor _____ 7016 Certificate Number _____					

San Juan 27-4 Unit #70M
Expected Production Curve
Blanco Mesaverde



San Juan 27-4 Unit #70M
Expected Production Curve
Basin Dakota



SJ 27-4 Unit #70M

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	0.693	GAS GRAVITY	0.598
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.14	%N2	0.36
%CO2	1.01	%CO2	1.71
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	1.5
DEPTH (FT)	6593	DEPTH (FT)	8586
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)	519	SURFACE PRESSURE (PSIA)	931
BOTTOMHOLE PRESSURE (PSIA)	614.4	BOTTOMHOLE PRESSURE (PSIA)	1117.5
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.693	GAS GRAVITY	0.598
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.14	%N2	0.36
%CO2	1.01	%CO2	1.71
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	1.5
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BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1171	SURFACE PRESSURE (PSIA)	2624
BOTTOMHOLE PRESSURE (PSIA)	1414.9	BOTTOMHOLE PRESSURE (PSIA)	3181.9

Page No.: 1
Print Time: Mon Jan 19 15:44:26 1998
Property ID: 1651
Property Name: SAN JUAN 27-4 UNIT | 59 | 45029A-1
Table Name: K:\ARIES\RR98PDP\TEST.DBF

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

SJ 27-4 Unit #70M
Dakota Offset

06/17/71	2624.0	-original
12/13/71	1867.0	
05/30/72	1612.0	
05/16/73	1454.0	
06/23/75	1182.0	
07/06/77	1042.0	
05/01/79	936.0	
05/01/81	998.0	
09/21/83	1051.0	
06/05/85	975.0	
05/18/88	1159.0	
05/30/90	1071.0	
07/28/92	931.0	-current

Page No.: 2
Print Time: Mon Jan 19 15:44:26 1998
Property ID: 3779
Property Name: SAN JUAN 27-4 UNIT | 146 | 44654A-1
Table Name: K:\ARIES\RR98PDP\TEST.DBF

--DATE-- M SIWHP
■■■■■■■■■■ ■■■Psi■■■

10/14/82	1171.0	- original
07/29/83	710.0	
06/20/84	815.0	
11/05/85	529.0	
04/21/86	585.0	
08/07/89	533.0	
02/18/91	541.0	
08/20/91	553.0	
05/03/93	519.0	-current

SJ 27-4 Unit #70M
Mesaverde Offset

6 S.d. 27-4 Un.	5 S.d. 27-4 Un.	4 S.d. 27-4 Un.	3 S.d. 27-4 Un.	2 S.d. 27-4 Un.	1 S.d. 27-4 Un.
7 S.d. 27-4 Un.	8 S.d. 27-4 Un.	9 S.d. 27-4 Un.	10 S.d. 27-4 Un.	11 S.d. 27-4 Un.	12 S.d. 27-4 Un.
18 S.d. 27-4 Un.	17 S.d. 27-4 Un.	16 S.d. 27-4 Un.	15 S.d. 27-4 Un.	14 S.d. 27-4 Un.	13 S.d. 27-4 Un.
19 S.d. 27-4 Un.	20 S.d. 27-4 Un.	21 S.d. 27-4 Un.	22 S.d. 27-4 Un.	23 S.d. 27-4 Un.	24 S.d. 27-4 Un.
30 S.d. 27-4 Un.	29 S.d. 27-4 Un.	28 S.d. 27-4 Un.	27 S.d. 27-4 Un.	26 S.d. 27-4 Un.	25 S.d. 27-4 Un.
31 S.d. 27-4 Un.	32 S.d. 27-4 Un.	33 S.d. 27-4 Un.	34 S.d. 27-4 Un.	35 S.d. 27-4 Un.	36 S.d. 27-4 Un.

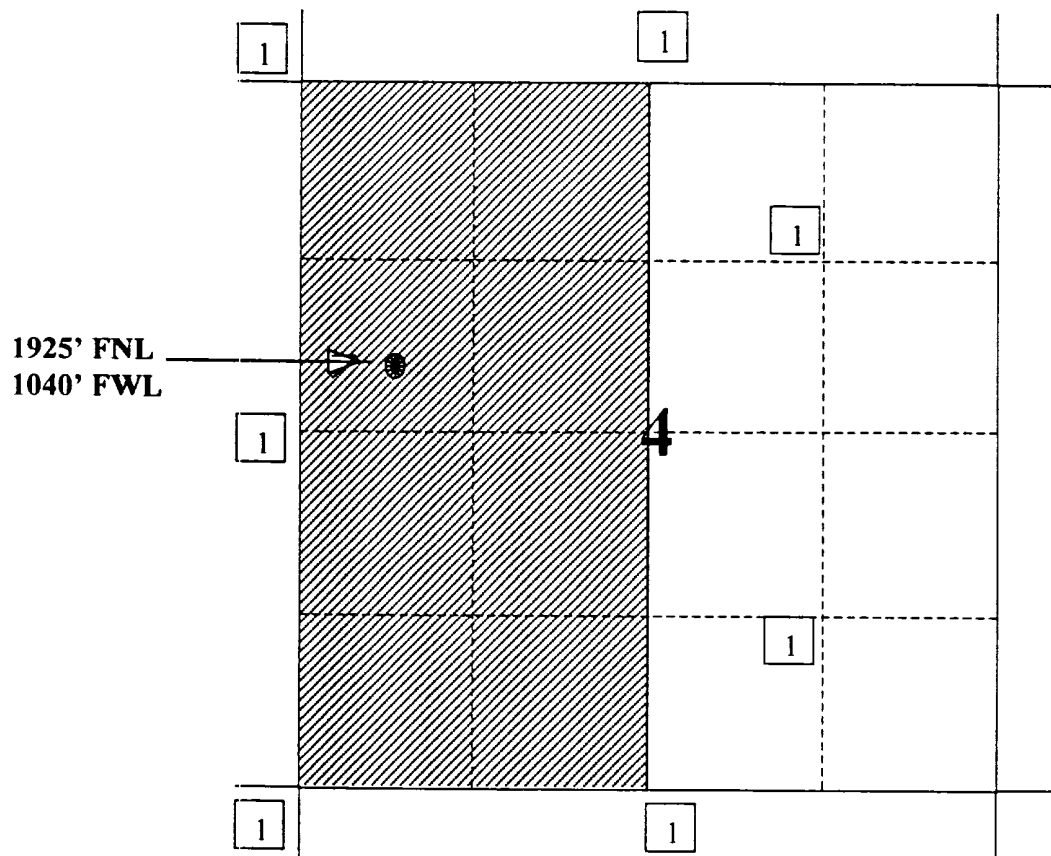
BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 27-4 Unit #70M

OFFSET OPERATOR/OWNER PLAT

Mesaverde / Dakota Formations Commingle Well

Township 27 North, Range 4 West



1) Burlington Resources