

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 28-5 Unit

83M

16-28N-05W

Rio Arriba

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7460 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. 808 psi (see attachment) (Original) b. 1196 psi (see attachment)	a. b.	a. 979 psi (see attachment) b. 3114 psi (see attachment)
6. Oil Gravity (API) or Gas BTU Content	BTU 1186		BTU 1030
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 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 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. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). ☐ Reference Order ☐ R-10695 ☐ 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: 06-08-98TYPE OR PRINT NAME Sean Woolverton TELEPHONE NO. (505) 326-9700

District I
PO Box 1980, Hobos, NM 88241-1980

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-
Revised February 21, 1998

District II
PO Drawer 60, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Submit to Appropriate District Of
State Lease - 4 Co.
Fee Lease - 3 Co.

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
PO Box 2088, Santa Fe, NM 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-		Pool Code 72319/71599	Pool Name Blanco Mesaverde/Basin Dakota
Property Code 7460	Property Name SAN JUAN 28-5 UNIT		Well Number 93M
CGRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		Elevation 6545'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot 10n	Feet from line	North/South line	Feet from line	East/West line	County
C	16	28N	5W		790	NORTH	1815	WEST	RIO ARRIE

11 Bottom Hole Location If Different From Surface

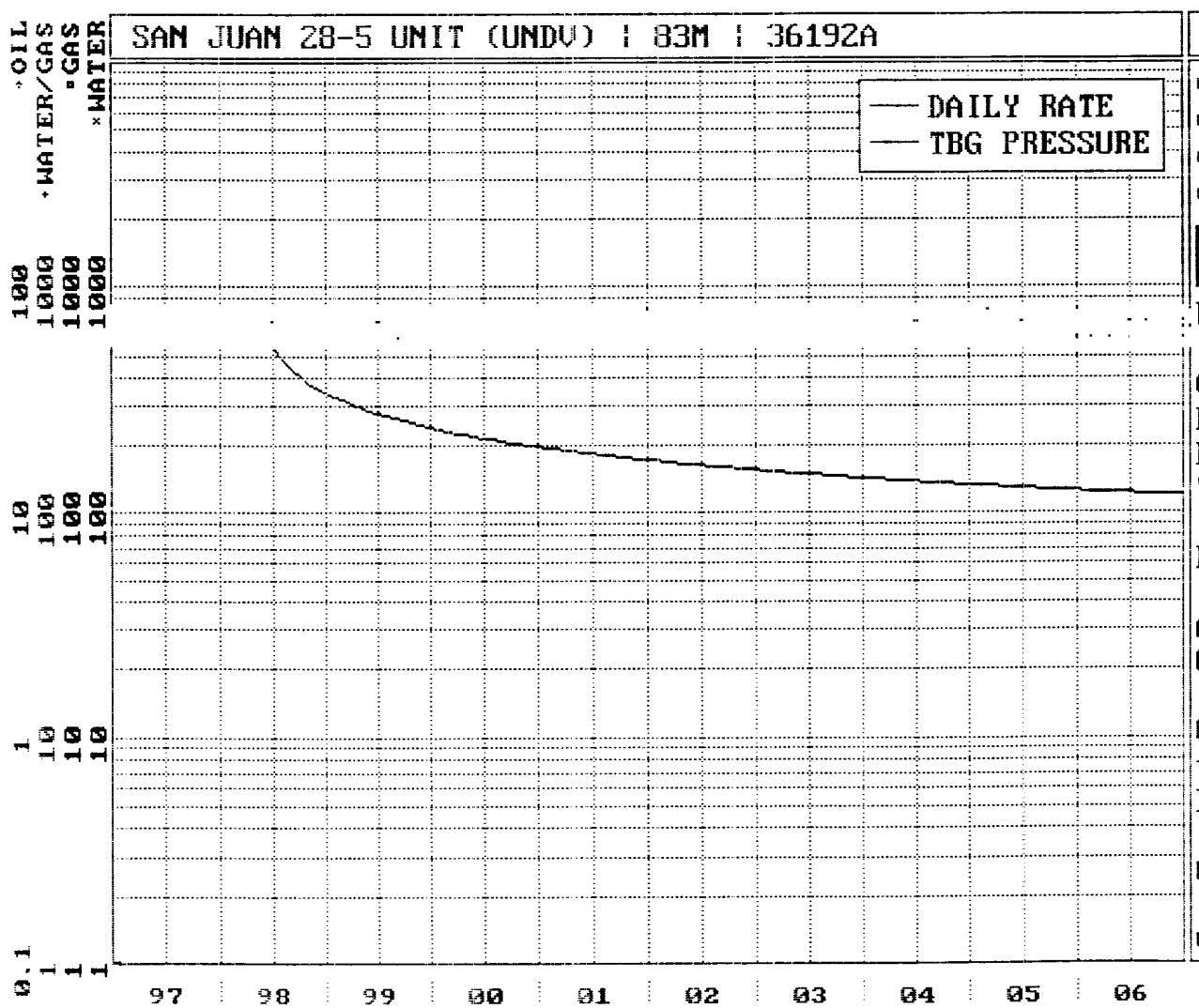
UL or lot no.	Section	Township	Range	Lot 10n	Feet from line	North/South line	Feet from line	East/West line	County

Dedicated Acres MV-N/320 DK-W/320	Joint or Infill	Consolidation Code	Order No.
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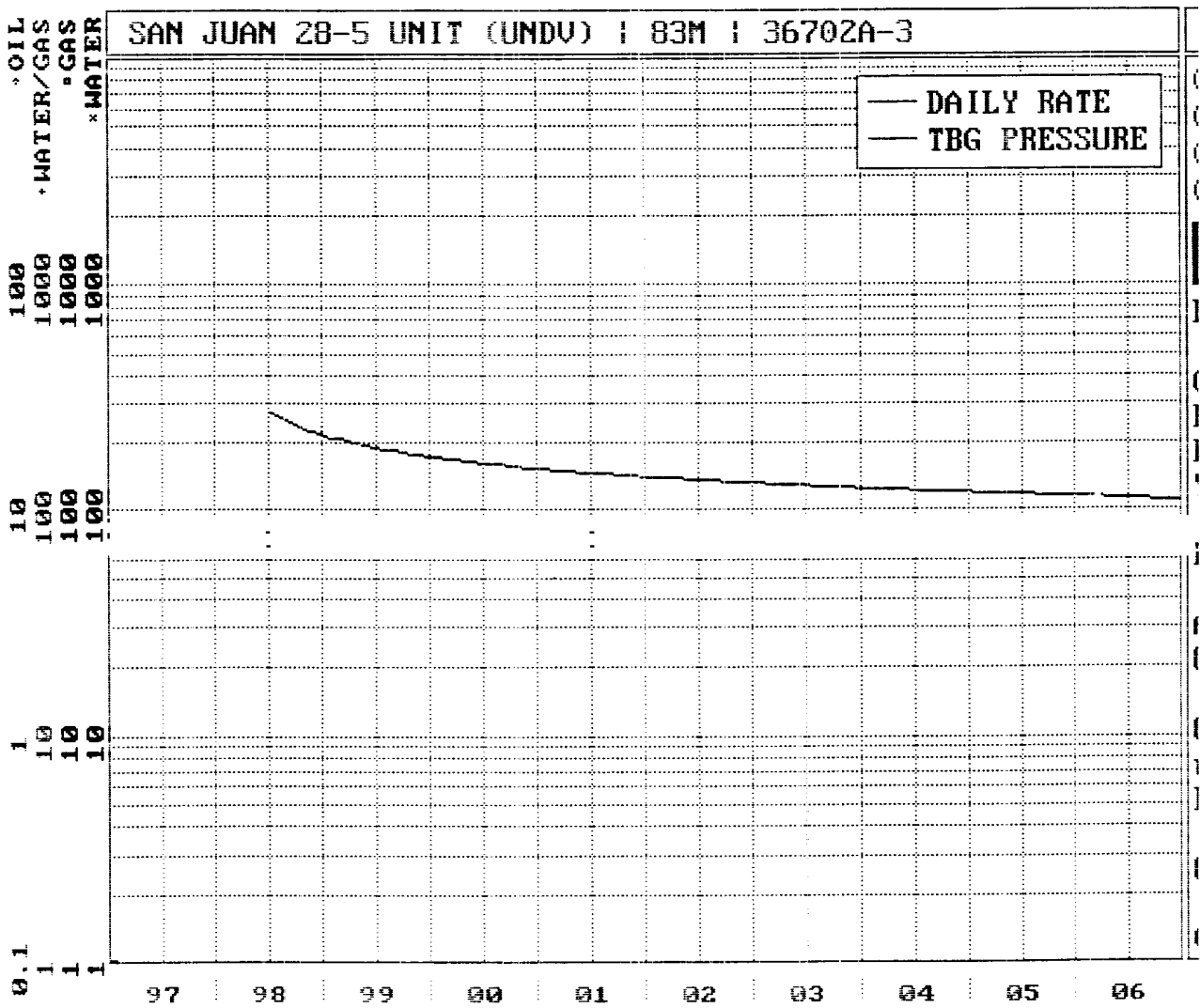
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

5277.36 790' 1815' NMSF-079250 NMSF-079250 16 5280.00 5290.56 NMSF-080515 RECEIVED OIL CON. DIV.	17 OPERATOR CERTIFICATION I hereby certify that the information contained hereon is true and complete to the best of my knowledge and belief.
	Signature <u>Peggy Bradfield</u> Printed Name Regulatory Administrator 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 on or under my supervision and that the same is true and correct to the best of my belief.	NEALE C. EDWARDS NEW MEXICO 6857 Professional Surveyor

San Juan 28-5 Unit #83M
Expected Production Curve
Blanco Mesaverde



San Juan 28-5 Unit #83M
Expected Production Curve
Basin Dakota



SJ 28-5 Unit #83M
 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	0.696	GAS GRAVITY	0.604
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.18	%N2	0.12
%CO2	0.97	%CO2	1.64
%H2S	0	%H2S	0
DIAMETER (IN)	2	DIAMETER (IN)	1.5
DEPTH (FT)	5838	DEPTH (FT)	7911
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)	692	SURFACE PRESSURE (PSIA)	827
BOTTOMHOLE PRESSURE (PSIA)	808.0	BOTTOMHOLE PRESSURE (PSIA)	978.6
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.696	GAS GRAVITY	0.604
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.18	%N2	0.12
%CO2	0.97	%CO2	1.64
%H2S	0	%H2S	0
DIAMETER (IN)	2	DIAMETER (IN)	1.5
DEPTH (FT)	5838	DEPTH (FT)	7911
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)	1015	SURFACE PRESSURE (PSIA)	2600
BOTTOMHOLE PRESSURE (PSIA)	1195.9	BOTTOMHOLE PRESSURE (PSIA)	3114.0

Page No.: 1
Print Time: Thu Feb 19 16:05:34 1998
Property ID: 10505
Property Name: SAN JUAN 28-5 UNIT | 16 | 49934A-1
Table Name: K:\ARIES\RR98PDP\TEST.DBF

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

10/01/57	1015.0	-original
10/17/57	1014.0	
11/06/58	825.0	
12/22/59	684.0	
09/22/60	620.0	
08/13/61	669.0	
03/21/62	627.0	
08/26/63	607.0	
01/24/64	656.0	
01/26/65	565.0	
08/01/66	569.0	
08/04/67	586.0	
05/10/68	589.0	
06/19/70	544.0	
04/27/71	527.0	
05/15/72	458.0	
05/09/74	398.0	
01/12/76	456.0	
11/12/76	456.0	
05/20/91	680.0	
07/17/91	692.0	-current

San Juan 28-5 Unit #83m
Mesaverde Offset

Page No. : 1

Print Time: Thu Feb 19 16:04:38 1998

Property ID: 1805

Property Name: SAN JUAN 28-5 UNIT	84	52386A-1
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Table Name: K:\ARIES\RR98PDP\TEST.DBF

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--DATE-- M SIWHP
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San Juan 28-5 Unit #83m

04/23/71	2600.0	-original
09/27/71	1902.0	
05/15/72	1584.0	
04/24/73	1573.0	
04/15/75	1217.0	
06/15/77	1147.0	
06/05/79	1062.0	
05/05/81	1027.0	
11/02/83	1140.0	
09/26/85	977.0	
03/11/86	1228.0	
11/03/87	997.0	
08/02/88	1202.0	
10/04/88	1132.0	
04/10/90	974.0	
01/31/94	827.0	-current

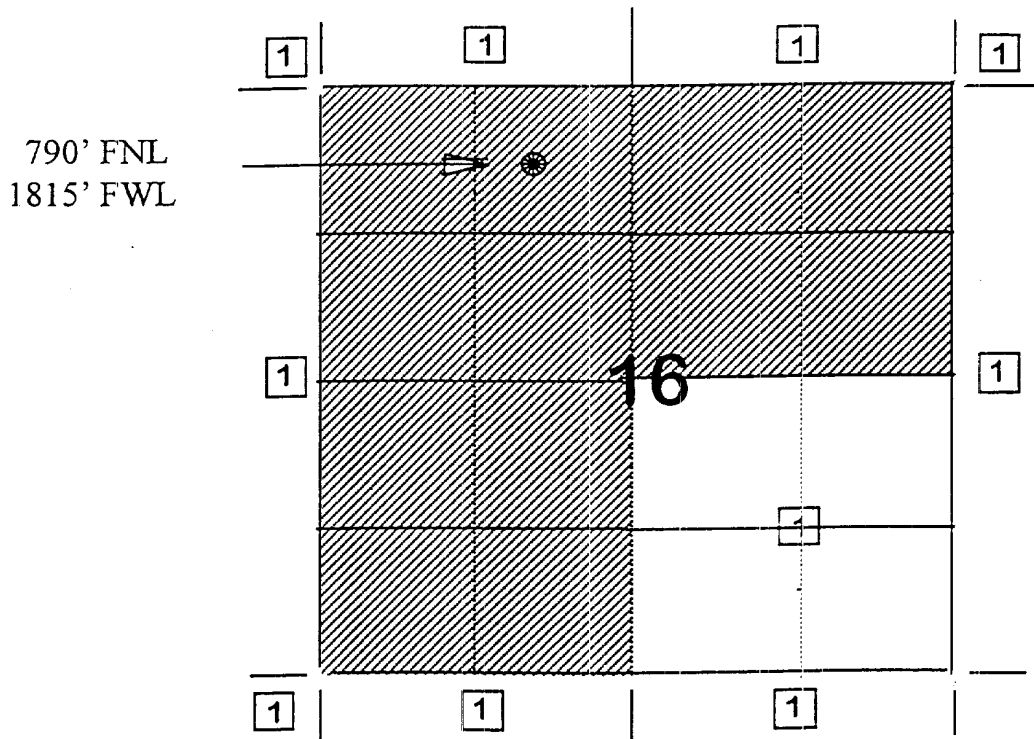
Dakota Offset

BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 28-5 Unit #83M
OFFSET OPERATOR \ OWNER PLAT

Mesaverde (N/2) / Dakota (W/2) Formations Commingle Well

Township 28 North, Range 5 West



1) Burlington Resources

San Juan 28-5 Unit #83M
Blanco Mesaverde / Basin Dakota
28N-05W-16

