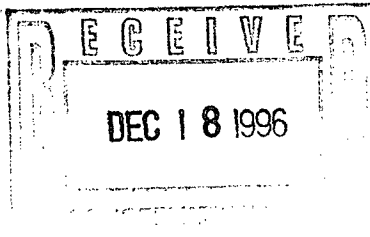


**BURLINGTON
RESOURCES**

SAN JUAN DIVISION

DHC 11/8/97
1427



December 9, 1996

Mr. William LeMay
New Mexico Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

Re: San Juan 28-6 Unit #128M
1310'FSL, 1620'FEL Section 17, T-28-N, R-06-W, Rio Arriba County, NM
API #30-039-not assigned

Dear Mr. LeMay:

This is a request for administrative approval for downhole commingling the Blanco Mesa Verde and Basin Dakota pools in the subject well. This is a new drill Mesa Verde/Dakota well for the 1997 Program.

To comply with the New Mexico Oil Conservation Division rules, Burlington Resources Oil & Gas Company is submitting the following for your approval of this commingling:

1. Form C107A - Application for Downhole Commingling;
2. C-102 plat for each zone showing its spacing unit and acreage dedication;
3. No production curve attached, as this is a new drill;
4. Notification list of offset operators - Burlington is the operator of the unit;
5. Shut in wellhead pressure and calculated down hole pressure of surrounding wells;
6. Nine-section plats for the Mesa Verde and Dakota.

Notification of Mesa Verde and Dakota interest owners is covered under Order R-10696 dated November 12, 1996.

As we discussed, we would like to amend our allocation method to a method approved by the District Office of the New Mexico Oil Conservation Division. This will afford us greater flexibility in determining the most accurate allocation formula.

Please let me know if you require additional data.

Sincerely,

A handwritten signature in cursive script, appearing to read "Peggy Bradfield". The signature is written in dark ink and is positioned above the printed name.

Peggy Bradfield
Regulatory/Compliance Administrator

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

Operator

PO BOX 4289 FARMINGTON, NM 87499

Address

SAN JUAN 28 - 6 UNIT

Lease

128M

Well No.

O-17-28N-6W

Unit Ltr. - Sec - Twp - Rge

RIO ARRIBA

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 014538 Property Code 7462 API NO. 30-039- 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. 531 psi (see attachment) (Original) b. 1263 psi (see attachment)	a. b.	a. 1037 psi (see attachment) b. 3283 psi (see attachment)
6. Oil Gravity ($^{\circ}$ API) or Gas BTU Content	BTU 1190		BTU 1013
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 rates 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 ☐ No

15. NMOC Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). Case #11628

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  TITLE Regulatory Administrator DATE 11-18-96

TYPE OR PRINT NAME Peggy Bradfield TELEPHONE NO. (505) 326-9700

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer 00, Artesia, NM 88211-0719
District III
1000 N. Hruska 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

AFT Number 30-039-		Pool Code 72319/71599		Pool Name Blanco Mesaverde/Basin Dakota	
Property Code 7462		Property Name San Juan 28-6 Unit			Well Number 128M
OGRID No. 14538		Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY			Elevation 6637'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
0	17	28 N	6 W		1310	South	1620	East	R.A.

11 Bottom Hole Location If Different From Surface

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

12 Dedicated Acres E/320 E/320	13 Joint or Infill	14 Consolidation Code	15 Order No.
--------------------------------------	--------------------	-----------------------	--------------

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

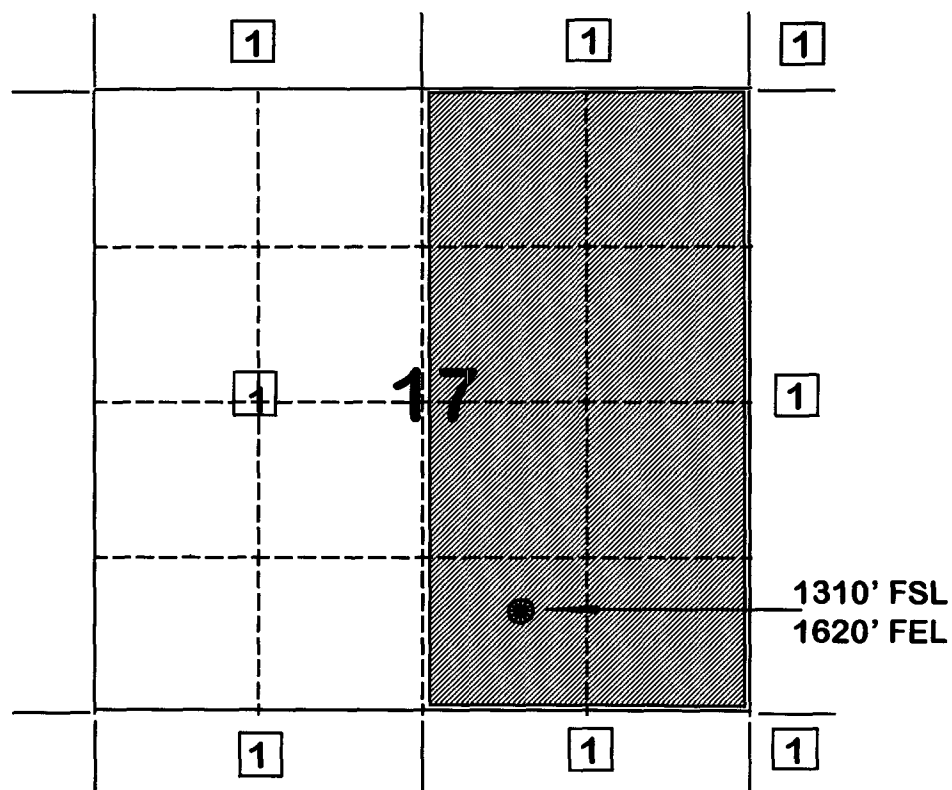
16	5274.72'		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature Peggy Bradfield Printed Name Regulatory Administrator Title Date 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 9-20-96 Date of Survey Signature and Title of Surveyor NEAL C. EDWARDS 8857 8857 Certificate Number
	SF-079192		
	1620'		
	5273.40'		

BURLINGTON RESOURCES OIL AND GAS COMPANY

**San Juan 28-6 Unit #128M
OFFSET OPERATOR \ OWNER PLAT**

Mesaverde/Dakota Formations Commingle Well

Township 28 North, Range 6 West



1) Burlington Resources Oil and Gas Company Successor to Meridian Oil Inc.

**FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD**

VERSION 1.0 3/13/94

GAS GRAVITY	0.696
COND. OR MISC. (C/M)	C
%N2	0.2
%CO2	0.88
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	5976
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	457
BOTTOMHOLE PRESSURE (PSIA)	530.8

SAN JUAN 28-6 #1 MESAVERDE - (CURRENT)

**FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD**

VERSION 1.0 3/13/94

GAS GRAVITY	0.696
COND. OR MISC. (C/M)	C
%N2	0.2
%CO2	0.88
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	5976
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1069
BOTTOMHOLE PRESSURE (PSIA)	1262.9

SAN JUAN 28-6 #1 MESAVERDE - (ORIGINAL)

Page No.: 4

Print Time: Thu Oct 03 11:41:42 1996

Property ID: 3976

Property Name: SAN JUAN 28-6 UNIT | 1 | : : 2205 CF: 2153 SIP:

Table Name: K:\ARIES\RR97PDP\TEST.DBF

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

09/01/53	0	1069.0	← original
12/30/57	145000	916.0	
10/29/58	255000	849.0	
08/22/59	323000	859.0	
09/06/60	420000	840.0	
10/05/61	495000	807.0	
04/23/62	548000	784.0	
02/22/63	586000	852.0	
07/17/64	682000	830.0	
02/25/65	728000	817.0	
01/04/66	788000	783.0	
01/23/67	884000	773.0	
07/12/68	1039000	703.0	
06/05/69	1131487	693.0	
08/10/70	1245370	1064.0	
12/02/70	1342708	652.0	
03/23/71	1412824	572.0	
08/08/72	1674795	528.0	
09/04/73	1934511	450.0	
00/10/74	1986574	427.0	
00/10/74	1986574	427.0	
00/10/74	1986574	427.0	
10/10/74	2155449	427.0	
07/29/76	2482463	418.0	
06/05/78	2774463	464.0	
05/01/80	3085472	407.0	
04/23/82	3320148	482.0	
06/22/84	3457019	524.0	
05/02/86	3571502	489.0	
09/25/89	3880878	512.0	
01/24/91	3971202	480.0	
06/03/91	3998421	492.0	
04/02/93	4165587	457.0	← Current

Mesa Verde Parent well
of
SS 28-6 # 128m

SAN JUAN 28-6 #128M

CURRENT DAKOTA PRESSURE
(BASED ON CURRENT AVERAGE OF OFFSET WELLS)

**FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD**

VERSION 1.0 3/13/94

GAS GRAVITY	0.694
COND. OR MISC. (C/M)	C
%N2	0.29
%CO2	1.21
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	7557
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	857
BOTTOMHOLE PRESSURE (PSIA)	1036.9

OFFSET DAKOTA WELLS - CURRENT PRESSURE

SAN JUAN 28-6 UNIT #128 DAKOTA-CURRENT	862
SAN JUAN 28-6 UNIT #126 DAKOTA-CURRENT	866
SAN JUAN 28-6 UNIT #127 DAKOTA-CURRENT	792
SAN JUAN 28-6 UNIT #144 DAKOTA-CURRENT	872
SAN JUAN 28-6 UNIT #145 DAKOTA-CURRENT	917
SAN JUAN 28-6 UNIT #159 DAKOTA-CURRENT	912
SAN JUAN 28-6 UNIT #212 DAKOTA-CURRENT	810
SAN JUAN 28-6 UNIT #211 DAKOTA-CURRENT	822
AVERAGE SURFACE PRESSURE	857

NOTE : SEE OFFSET WELL PLAT

**FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD**

VERSION 1.0 3/13/94

GAS GRAVITY	0.694
COND. OR MISC. (C/M)	C
%N2	0.29
%CO2	1.21
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	7557
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	2670
BOTTOMHOLE PRESSURE (PSIA)	3283.4

SAN JUAN 28-6 UNIT #128 DAKOTA-ORIGINAL

Page No.: 5
 Print Time: Thu Oct 03 11:41:44 1996
 Property ID: 1844
 Property Name: SAN JUAN 28-6 UNIT | 128 | : : 492 CF: 92 SIP:
 Table Name: K:\ARIES\RR97PDP\TEST.DBF

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

09/21/67	0	2670.0	← original
09/30/68	130000	1206.0	
09/09/69	197877	1095.0	
08/19/70	257806	1045.0	
03/23/71	288993	1006.0	
08/08/72	364053	674.0	
02/15/74	436863	645.0	
09/04/75	501613	592.0	
08/01/77	564172	816.0	
05/08/79	617660	793.0	
10/14/81	677871	923.0	
05/23/85	758154	898.0	
10/06/88	828074	1032.0	
05/29/90	876630	807.0	
07/01/92	923797	862.0	← current

Dakota Parent Well
 of
 28-6 #128m

Page No.: 4

Print Time: Mon Nov 04 13:55:17 1996

Property ID: 1842

Property Name: SAN JUAN 28-6 UNIT | 126 | 52204A-1

Table Name: K:\ARIES\RR97PDP\TEST.DBF

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

08/26/67	0	2687.0
09/07/67	0	2686.0
12/08/67	22000	1830.0
07/12/68	96000	1317.0
09/09/69	174000	1104.0
08/19/70	230018	1059.0
03/23/71	260311	1030.0
08/08/72	332132	762.0
09/04/75	467553	632.0
08/01/77	525349	812.0
05/08/79	572109	772.0
04/15/83	680632	777.0
05/23/85	740853	895.0
07/08/88	814628	1052.0
06/05/90	878588	882.0
07/01/92	934728	866.0 ← Current

Dakota Offset
of
28-6 #128M

Page No.: 5

Print Time: Mon Nov 04 13:55:17 1996

Property ID: 1843

Property Name: SAN JUAN 28-6 UNIT | 127 | 52206A-1

Table Name: K:\ARIES\RR97PDP\TEST.DBF

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

10/18/67	0	2763.0
10/10/68	133000	1223.0
08/19/69	214000	869.0
05/25/70	270744	783.0
05/04/71	338930	872.0
05/22/72	405914	712.0
08/21/73	483594	663.0
06/24/75	575477	876.0
08/01/77	661926	789.0
05/08/79	728390	892.0
10/14/81	803039	952.0
09/22/83	851828	1050.0
02/07/86	924710	874.0
10/06/88	971531	922.0
05/29/90	1021454	802.0
05/28/92	1066093	792.0

Dakota Offset of
28-6 #128m

← current

Page No.: 1
Print Time: Mon Nov 04 14:00:17 1996
Property ID: 1855
Property Name: SAN JUAN 28-6 UNIT | 144 | 52221A-1
Table Name: K:\ARIES\RR97PDP\TEST.DBF

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

10/23/68	0	2729.0
04/29/69	125000	1168.0
04/21/70	245718	969.0
05/10/71	333765	893.0
08/08/72	426970	616.0
09/04/73	501372	532.0
09/04/75	611439	490.0
08/01/77	684602	760.0
05/08/79	755461	802.0
10/14/81	838146	834.0
04/15/83	879624	862.0
05/23/85	937254	881.0
07/08/88	995716	1122.0
05/29/90	1064458	912.0
07/01/92	1120909	872.0

Dakota Offset of
55 28-6 #128m

← Current

Page No.: 2

Print Time: Mon Nov 04 14:00:17 1996

Property ID: 1856

Property Name: SAN JUAN 28-6 UNIT | 145 | 51760A-1

Table Name: K:\ARIES\RR97PDP\TEST.DBF

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

11/12/68	0	2702.0
11/13/68	0	2701.0
04/04/69	78019	1252.0
04/21/70	187835	1057.0
05/10/71	271776	918.0
08/08/72	359442	637.0
09/04/73	428822	622.0
05/05/75	516224	812.0
07/05/77	604996	953.0
06/28/79	683631	1010.0
07/13/81	761983	932.0
10/12/83	825186	1094.0
06/27/85	886683	944.0
10/04/88	952396	1062.0
05/29/90	994130	917.0 ← Current

Dakota Offset of
28-6 #128m

Page No. : 3

Print Time: Mon Nov 04 14:00:18 1996

Property ID: 1870

Property Name: SAN JUAN 28-6 UNIT | 159 | 52425A-1

Table Name: K:\ARIES\RR97PDP\TEST.DBF

```
--DATE--  ---CUM GAS--  M SIWHP
|||||  |||||McF|||||  |||Psi|||
```

07/27/71	0	2591.0
11/02/71	66368	1561.0
08/08/72	189821	901.0
09/04/73	303273	723.0
05/05/75	436261	635.0
00/17/77	549699	582.0
00/17/77	549699	582.0
00/17/77	549699	582.0
10/17/77	601435	582.0
06/28/79	697356	637.0
07/13/81	811315	608.0
10/12/83	905558	667.0
06/27/85	985282	650.0
10/04/88	1100326	687.0
05/08/90	1168678	852.0
05/28/92	1236762	912.0

Dakota Offset of
SJ 28-6 #128 m

← Current

Page No.: 6

Print Time: Mon Nov 04 14:00:19 1996

Property ID: 1898

Property Name: SAN JUAN 28-6 UNIT | 212 | 44093A-1

Table Name: K:\ARIES\RR97PDP\TEST.DBF

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

08/11/78	0	2573.0
11/06/78	103173	1472.0
02/13/79	153064	1051.0
06/28/79	190987	1240.0
06/20/80	332373	864.0
07/13/81	448200	922.0
10/12/83	591852	1132.0
06/27/85	712466	927.0
10/04/88	881091	952.0
04/09/90	977814	877.0
05/28/92	1087797	810.0 ← current

Dakota Offset of
SJ 28-6 #128 M

Page No.: 5
Print Time: Mon Nov 04 14:00:19 1996
Property ID: 1897
Property Name: SAN JUAN 28-6 UNIT | 211 | 44092A-1
Table Name: K:\ARIES\RR97PDP\TEST.DBF

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

06/15/78	0	2613.0
09/26/78	49843	1337.0
06/28/79	154387	822.0
06/20/80	235883	856.0
07/13/81	311825	800.0
10/12/83	421438	972.0
06/27/85	508566	882.0
10/04/88	636460	957.0
05/29/90	701731	897.0
07/01/92	792447	822.0 ← Current

Dakota Offset
of
28-6 # 128-m

