

## DISTRICT I

P.O. Box 1880, 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

## APPLICATION FOR DOWNHOLE COMMINGLING

## EXISTING WELLBORE

☒ YES ☐ NO

Burlington Resources Oil &amp; Gas Company

PO Box 4289, Farmington, NM 87499

Operator

Address

SAN JUAN 28-5 UNIT

78

M-25-28N-05W

Rio Arriba

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14568 Property Code 7460 API NO. 30-039-20105 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)	5582-6126'		8054-8248'
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. 912 psi  (Original) b. 1292 psi		a. 1078 psi  b. 3281 psi
6. Oil Gravity (°API) or Gas BTU Content	BTU 1121		BTU 1080
7. Producing or Shut-In?	not yet producing		producing
Production Marginal? (yes or no)	no		yes
* If Shut-In and oil/gas/water rates of last production  <small>Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.</small>	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: 8/97 Rates: 50 MCFD
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. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). R-10695

## 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 Jennifer L. Dobson TITLE Production Engineer DATE 10/24/97TYPE OR PRINT NAME Jennifer L. Dobson TELEPHONE NO. (505) 599-4026

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

District II  
PO Drawer 00, Artesia, NM 88211-0719

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  
Revised February 21  
Instructions on  
Submit to Appropriate District  
State Lease - 4  
Fee Lease - 3

☐ AMENDED REF

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-20105		Pool Code 72319/71599	Pool Name Blanco Mesaverde/Basin Dakota
Property Code 7460	Property Name SAN JUAN 28-5 UNIT		Well Number 78
GRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		Elevation 6907'

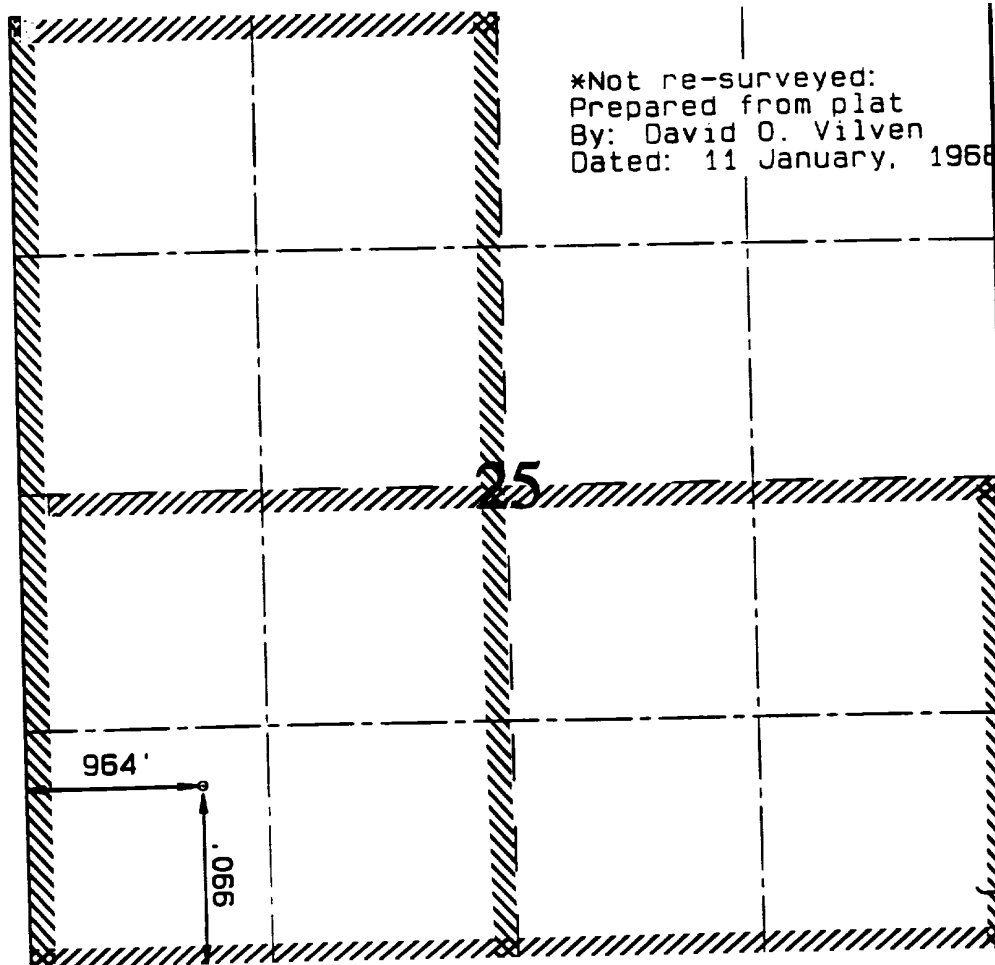
10 Surface Location

UL or lot no. M	Section 25	Township 28N	Range 5W	Lot Idn	Feet from the 990	North/South line South	Feet from the 964	East/West line West	Cont RI ARR
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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	Cont
12 Regulatory Agency MV-S/544.48 DK-W/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



17 OPERATOR CERTIFICATION  
I hereby certify that the information contained  
true and complete to the best of my knowledge.

Signature  
Peggy Bradfield  
Printed Name  
Regulatory Administrator  
Title  
Date

18 SURVEYOR CERTIFICATION  
I hereby certify that the well location shown  
was plotted from field notes of actual surveys  
or under my supervision and that the same are  
correct to the best of my belief.

OCTOBER 29, 1997  
Date of Survey  
Signature and Seal of Surveyor

NEALE C. EDWARDS  
NEW MEXICO  
6857  
Professional Surveyor  
Certificate Number



• OIL  
• WATER/GAS  
• GAS  
• WATER

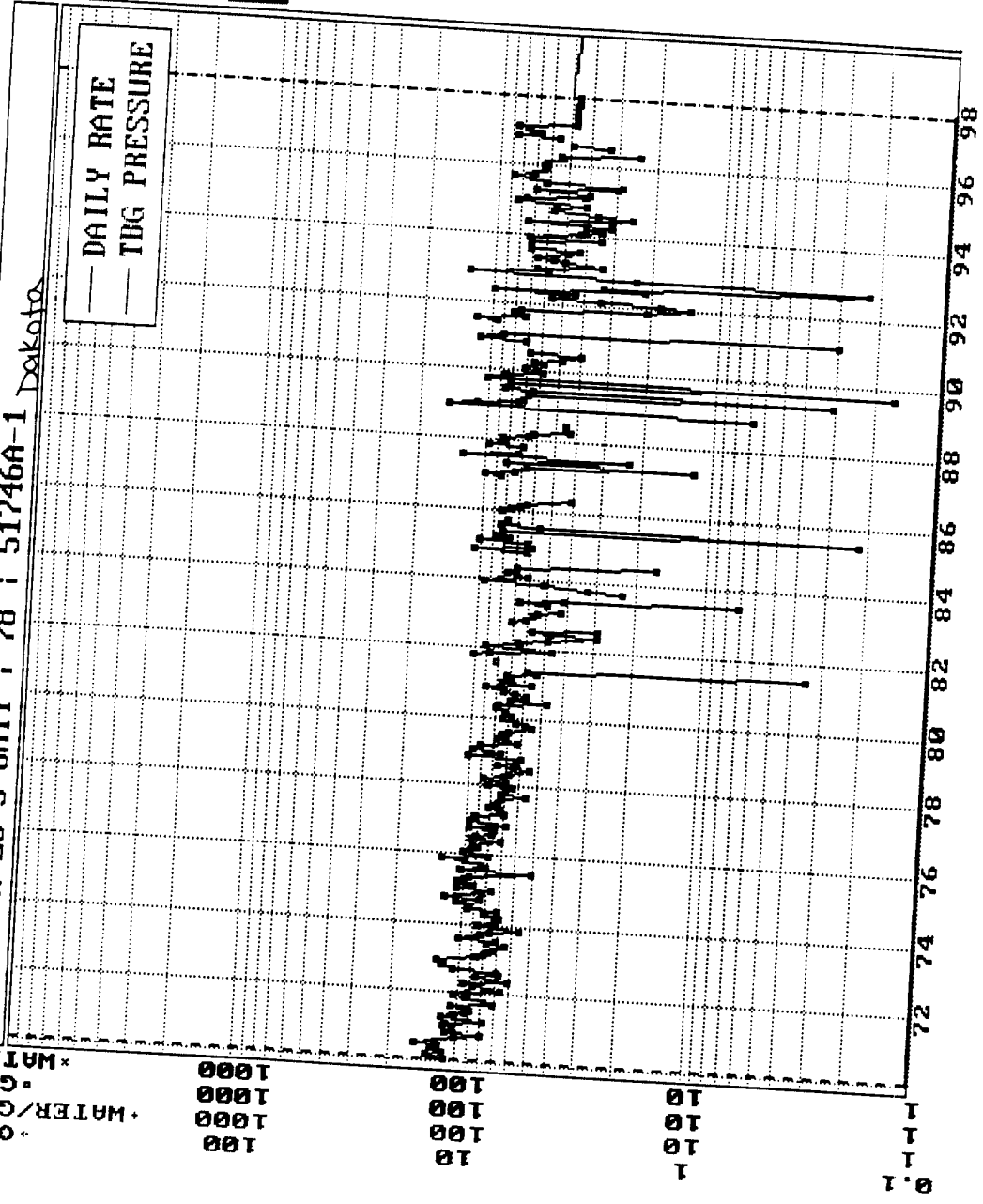
SAN JUAN 28-5 UNIT : 78 : 51746A-1

Dakota

— DAILY RATE  
— TBG PRESSURE

Prop 1799 \*

- • WATER Bbls/d
- • GAS Mcf/d
- • WATER/GAS
- • OIL Bbl/d
-  RateTime
-  Semi Log



Prop 32 \*

- ☐ \*WATER Bbls/d
- ☒ \*GAS Mcf/d
- ☐ \*WATER/GAS
- ☐ \*OIL Bbl/d

RateTime  
Semi Log

SAN JUAN 28-5 UNIT : 78 : 51746B Projected Mesavende Prod

DAILY RATE  
TBG PRESSURE

\*OIL  
\*WATER/GAS  
\*GAS  
\*WATER

100  
1000  
1000  
1000

10  
100  
100  
100

1  
10  
10  
10

0.1  
1  
1  
1

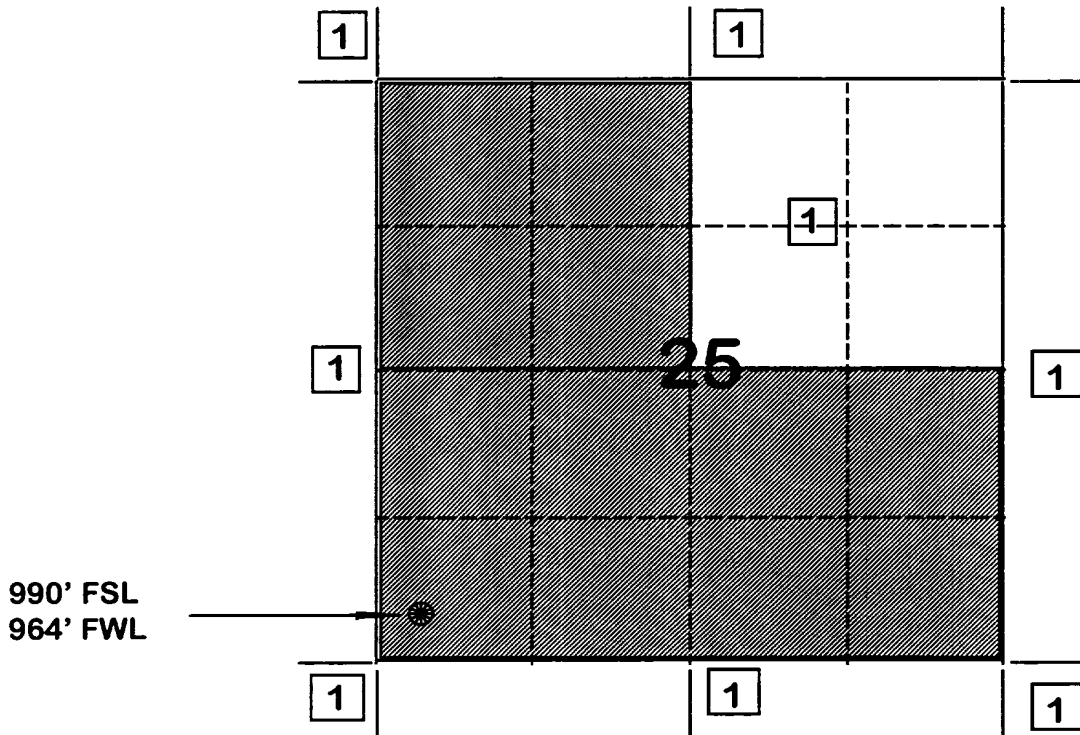
97 98 99 00 01 02 03 04 05 06

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

**San Juan 28-5 Unit #78  
OFFSET OPERATOR \ OWNER PLAT**

**Mesaverde (S/2) / Dakota (W/2) Formations Commingle Well**

**Township 28 North, Range 5 West**



**1) Burlington Resources Oil and Gas Co.**

Page No.: 1

Print Time: Tue Oct 14 09:53:47 1997

Property ID: 33

Property Name: SAN JUAN 28-5 UNIT | 78 | 51746A-1

Table Name: Q:\ARIES\FD98AR38\TEST.DBF

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

08/14/68	0	2710.0
11/27/68	28000	2721.0
05/29/69	57104	1084.0
06/09/70	109445	957.0
05/03/71	146396	1124.0
05/30/72	178320	1192.0
06/23/75	276532	984.0
07/06/77	343877	1014.0
05/01/79	393573	972.0
05/01/81	443222	968.0
06/05/85	517399	1054.0
07/31/90	614028	1023.0
12/02/92	655155	1235.0
10/14/97	748591	900.0

Page No.: 1

Print Time: Tue Oct 14 08:20:01 1997

Property ID: 3955

Property Name: SAN JUAN 28-5 UNIT | 43 | 50458A-1

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

--DATE-- ---CUM\_GAS-- M SIWHP  
: : :Mcf: :Psi:

04/29/61	0	1114.0
07/07/61	0	1113.0
12/19/61	30000	861.0
07/31/62	49000	852.0
01/07/63	62000	826.0
01/02/64	110000	814.0
01/26/65	170000	812.0
10/28/66	242000	764.0
10/31/67	278000	738.0
08/14/68	311000	680.0
06/09/70	367462	752.0
05/03/71	401521	672.0
05/30/72	432182	698.0
08/07/74	498912	692.0
06/25/76	560577	669.0
08/02/78	626384	695.0
07/01/80	676278	708.0
04/21/86	756492	791.0
05/20/91	839220	779.0
06/28/91	840811	791.0

**San Juan 28-5 #78**  
**Bottom Hole Pressures**  
**Flowing and Static BHP**  
**Cullender and Smith Method**  
Version 1.0 3/13/94

Mesa Verde		Dakota	
<u>MV - Current</u>		<u>DK-Current</u>	
GAS GRAVITY	0.646	GAS GRAVITY	0.621
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.21	%N2	0.25
%CO2	1.27	%CO2	1.49
%H2S	0	%H2S	0
DIAMETER (IN)	1.995	DIAMETER (IN)	1.995
DEPTH (FT)	5854	DEPTH (FT)	8151
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150	BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	791	SURFACE PRESSURE (PSIA)	900
BOTTOMHOLE PRESSURE (PSIA)	911.5	BOTTOMHOLE PRESSURE (PSIA)	1077.9
The Mesa Verde Pressures are from the San Juan 27-5 #91 which is an offset MV producer.			
<u>MV - Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.646	GAS GRAVITY	0.621
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.21	%N2	0.25
%CO2	1.27	%CO2	1.49
%H2S	0	%H2S	0
DIAMETER (IN)	1.995	DIAMETER (IN)	1.995
DEPTH (FT)	5854	DEPTH (FT)	8151
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150	BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1114	SURFACE PRESSURE (PSIA)	2710
BOTTOMHOLE PRESSURE (PSIA)	1291.7	BOTTOMHOLE PRESSURE (PSIA)	3281.4
The Mesa Verde Pressures are from the San Juan 27-5 #91 which is an offset MV producer.			



DATE: October 17, 1997  
NAME: SAN JUAN 28-5 UNIT 78  
FORM: MESAVERDE  
LOCATION  
UNIT: M  
SEC: 25  
TWN: 28N  
RNG: 5W

<div>8/62 • San Juan 28-5 Unit 55 124/1018 (97) 0/3</div> <div>[23] • San Juan 28-5 Unit 49 44/617 (97) 0/1</div>	<div>5/59 • San Juan 28-5 Unit 37 36/578 (97) 0/0</div> <div>[24] • San Juan 28-5 Unit 39 195/612 (97) 1/0</div>	<div>9/61 • San Juan 28-4 Unit 28 51/409 (97) 0/0</div> <div>[19] • San Juan 28-4 Unit 27 41/650 (97) 0/0</div>
<div>11/60 • San Juan 28-5 Unit NP 3 254/687 (97) 1/0</div> <div>4/59 • San Juan 28-5 Unit 36 135/858 (97) [26] 0/0</div>	<div>8/98 • San Juan 28-5 Unit 78 58/738 (97) 0/0</div> <div>11/60 • San Juan 28-5 Unit 46 156/610 (97) [25] 1/0</div> <div>8/97 • San Juan 28-5 Unit 94 403/2 (97) 0/0</div>	<div>8/58 • San Juan 28-4 Unit 16 3/542 (99) 0/0</div> <div>[30] • San Juan 28-4 Unit 20 112/1072 (97) 0/3</div>
<div>6/60 • San Juan 28-5 Unit 21 51/1211 (97) 0/0</div> <div>7/67 • San Juan 28-5 Unit 53 266/966 (97) 1/0</div>	<div>7/97 • San Juan 28-5 Unit 45M 465/21 (97) 0/0</div> <div>11/60 • San Juan 28-5 Unit 47 320/1413 (97) 2/5</div>	<div>4/57 • San Juan 28-4 Unit 11 100/1547 (97) [31] 0/0</div> <div>9/58 • San Juan 28-4 Unit 18 288/1536 (97) 0/5</div>

T  
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LEGEND  
COMPLETION DATE  
WELL NAME  
MCF/D-CUM(MMF)  
BOP/D-CUM(MBO)

R-4-W

R-5-W

DATE: October 24, 1997  
NAME: SAN JUAN 28-5 UNIT 78  
FORM: DAKOTA

LOCATION  
UNIT: M  
SEC: 25  
TWN: 28N  
RNG: 5W

LEGEND  
COMPLETION DATE  
WELL NAME  
MCF/D-CUM(MMF)  
BOP/D-CUM(MBO)

<p>10/79  San Juan 28-5 Unit 103  29/229 (97)  0/0</p> <p>[23]</p> <p>5/71  San Juan 28-5 Unit 86  100/1238 (97)  1/3</p> <p>INA  7/79  San Juan 28-5 Unit 98  1/229 (92)  0/0</p> <p>[24]</p> <p>INA  7/73  San Juan 28-5 Unit 92  4/187 (92)  0/0</p> <p>[19]</p>	<p>7/69  San Juan 28-5 Unit 80  42/1122 (97)  0/4</p> <p>[26]</p> <p>58/69  San Juan 28-5 Unit 81  56/565 (97)  0/0</p> <p>7/97  San Juan 28-5 Unit 45M  22/17 (97)  0/0</p> <p>[36]</p> <p>8/67  San Juan 28-5 Unit 72  232/2731 (97)  1/11</p> <p>6/67  San Juan 28-5 Unit 73  149/1363 (97)  0/5</p> <p>[35]</p> <p>7/97  San Juan 28-5 Unit 74  181/2096 (97)  1/7</p> <p>[36]</p> <p>8/67  San Juan 28-5 Unit 74  181/2096 (97)  1/7</p> <p>[36]</p>	<p>7/69  San Juan 28-5 Unit 80  42/1122 (97)  0/4</p> <p>[26]</p> <p>58/69  San Juan 28-5 Unit 81  56/565 (97)  0/0</p> <p>7/97  San Juan 28-5 Unit 45M  22/17 (97)  0/0</p> <p>[36]</p> <p>8/67  San Juan 28-5 Unit 72  232/2731 (97)  1/11</p> <p>6/67  San Juan 28-5 Unit 73  149/1363 (97)  0/5</p> <p>[35]</p> <p>7/97  San Juan 28-5 Unit 74  181/2096 (97)  1/7</p> <p>[36]</p>	<p>5/72  San Juan 28-4 Unit 34  95/1058 (97)  0/0</p> <p>[30]</p> <p>7/78  San Juan 28-5 Unit 94  33/336 (97)  0/0</p> <p>[25]</p> <p>8/68  San Juan 28-5 Unit 78  58/738 (97)  0/0</p> <p>[25]</p> <p>7/97  San Juan 28-5 Unit 45M  22/17 (97)  0/0</p> <p>[36]</p> <p>8/67  San Juan 28-5 Unit 74  181/2096 (97)  1/7</p> <p>[36]</p>	<p>5/72  San Juan 28-4 Unit 34  95/1058 (97)  0/0</p> <p>[30]</p> <p>7/78  San Juan 28-5 Unit 94  33/336 (97)  0/0</p> <p>[25]</p> <p>8/68  San Juan 28-5 Unit 78  58/738 (97)  0/0</p> <p>[25]</p> <p>7/97  San Juan 28-5 Unit 45M  22/17 (97)  0/0</p> <p>[36]</p> <p>8/67  San Juan 28-5 Unit 74  181/2096 (97)  1/7</p> <p>[36]</p>	<p>5/72  San Juan 28-4 Unit 34  95/1058 (97)  0/0</p> <p>[30]</p> <p>7/78  San Juan 28-5 Unit 94  33/336 (97)  0/0</p> <p>[25]</p> <p>8/68  San Juan 28-5 Unit 78  58/738 (97)  0/0</p> <p>[25]</p> <p>7/97  San Juan 28-5 Unit 45M  22/17 (97)  0/0</p> <p>[36]</p> <p>8/67  San Juan 28-5 Unit 74  181/2096 (97)  1/7</p> <p>[36]</p>	<p>INA  11/67  San Juan 28-4 Unit 30  60/2833 (96)  0/3</p> <p>[31]</p> <p>10/67  San Juan 28-4 Unit 29  31/704 (97)  0/0</p> <p>[31]</p>	<p>INA  11/67  San Juan 28-4 Unit 30  60/2833 (96)  0/3</p> <p>[31]</p> <p>10/67  San Juan 28-4 Unit 29  31/704 (97)  0/0</p> <p>[31]</p>	<p>INA  11/67  San Juan 28-4 Unit 30  60/2833 (96)  0/3</p> <p>[31]</p> <p>10/67  San Juan 28-4 Unit 29  31/704 (97)  0/0</p> <p>[31]</p>
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R-4-W

R-5-W

**STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION**

**IN THE MATTER OF THE HEARING CALLED  
BY THE OIL CONSERVATION DIVISION FOR  
THE PURPOSE OF CONSIDERING:**

**CASE NO. 11627  
ORDER NO. R-10695**

**APPLICATION OF BURLINGTON RESOURCES  
OIL & GAS COMPANY FOR THE ESTABLISHMENT  
OF A DOWNHOLE COMMINGLING "REFERENCE  
CASE" FOR ITS SAN JUAN 28-5 UNIT PURSUANT  
TO DIVISION RULE 303.E. AND THE ADOPTION  
OF SPECIAL ADMINISTRATIVE RULES THEREFOR,  
SAN JUAN COUNTY, NEW MEXICO.**

**ORDER OF THE DIVISION**

**BY THE DIVISION:**

This cause came on for hearing at 8:15 a.m. on October 17 and November 7, 1996, at Santa Fe, New Mexico, before Examiners David R. Catanach and Michael E. Stogner, respectively.

NOW, on this 12th day of November, 1996, the Division Director, having considered the testimony, the record and the recommendations of the Examiner, and being fully advised in the premises,

**FINDS THAT:**

(1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) The applicant, Burlington Resources Oil & Gas Company (Burlington), pursuant to the provisions of Division Rule 303.E., seeks to establish a downhole commingling "reference case" to provide exceptions for (a) marginal economic criteria, (b) pressure criteria, (c) allocation formulas and (d) modification of notification rules on a unit-wide basis for downhole commingling of Dakota, Mesaverde, Fruitland Coal and Pictured Cliffs gas production within existing or future drilled wells within the San Juan 28-5 Unit, San Juan County, New Mexico.

(3) Division Rule No. 303.E., amended by Order No. R-10470-A, currently states:

"If sufficient data exists on a lease, pool, formation, geographic area, etc., so as to render it unnecessary to repeatedly provide such data on Form C-107-A, an operator may except any of the various criteria required under Paragraph 303.D. of this rule by establishing a "reference case". The Division, upon its own motion, or by application from an operator, may establish "reference cases" either administratively or by hearing. Upon Division approval of such "reference cases" for specific criteria, subsequent applications to downhole commingle (Form C-107-A) will be required only to cite the Division order number which established such exceptions and shall not be required to submit data for those criteria."

(4) The applicant is the current operator of the San Juan 28-5 Unit which encompasses some 17,399 acres in Township 28 North, Range 5 West, NMPM, San Juan County, New Mexico.

(5) Within the San Juan 28-5 Unit, the applicant currently operates sixty-seven (67) Basin-Dakota Gas Pool wells, seventy-one (71) Blanco-Mesaverde Gas Pool wells, sixteen (16) Gobernador-Pictured Cliffs, Oso-Pictured Cliffs and Tapacito-Pictured Cliffs Gas Pool wells, and nineteen (19) Basin-Fruitland Coal Gas Pool wells.

(6) According to its evidence and testimony, Burlington seeks to:

- a) establish a "reference case" for marginal economic criteria in the Dakota and Pictured Cliffs formations. whereby these formations and/or pools may be identified as "marginal" on Form C-107-A's subsequently filed for wells within the San Juan 28-5 Unit. The applicant further proposes that the data provided in the immediate case serve as supplemental data or confirmation that these formations and/or pools should be classified as "marginal";
- b) establish a "reference case" for pressure criteria in the Dakota and Pictured Cliffs formations whereby the Division may utilize data provided in the immediate case to verify the pressure data provided on Form C-107-A's subsequently filed for wells within the San Juan 28-5 Unit;

- c) establish a "reference case" whereby the Division utilizes the data presented in the immediate case to endorse or approve certain methods of allocating production whereby the applicant need not submit additional data or justification when proposing a certain method of allocating production on Form C-107-A's subsequently filed for wells within the San Juan 28-5 Unit; and,
- d) establish a "reference case" or an administrative procedure for authorizing the downhole commingling of existing or future drilled wells within the San Juan 28-5 Unit without additional notice to each affected interest owner as required by Division Rule No. 303.D.

(7) In support of its request to except marginal economic criteria, the applicant presented geologic and engineering evidence and testimony which indicates that within the San Juan 28-5 Unit:

- a) the structure and thickness of the Dakota and Pictured Cliffs formations are very consistent;
- b) the average recoverable Dakota and Pictured Cliffs gas reserves underlying an undeveloped drill block are approximately 1,258 MMCFG and 77 MMCFG, respectively;
- c) the average initial producing rate for a newly drilled or recompleted Dakota and Pictured Cliffs gas well is approximately 276 MCFGD and 136 MCFGD, respectively; and,
- d) the estimated ultimate gas recoveries and initial producing rates from the Dakota and Pictured Cliffs formations are insufficient to justify drilling stand alone wells and/or dually completed wells to recover such gas reserves.

(8) The evidence and testimony presented by the applicant indicates that the Dakota and Pictured Cliffs formations within the San Juan 28-5 Unit should be properly classified as "marginal".

(9) In support of its request to except pressure criteria within the Dakota and Pictured Cliffs formations within the San Juan 28-5 Unit, the applicant presented engineering evidence and testimony which indicates that:

- a) the average shut-in bottomhole pressure within the Dakota and Pictured Cliffs formations at the time of initial development were approximately 3,149 psi and 1,143 psi, respectively; and,
- b) the average current shut-in bottomhole pressure within the Dakota and Pictured Cliffs formations are approximately 1,059 psi and 714 psi, respectively.

(10) There is sufficient pressure data available within the San Juan 28-5 Unit so as to except pressure criteria as proposed by the applicant.

(11) The applicant testified that various allocation methods will be utilized for downhole commingled wells within the San Juan 28-5 Unit depending on the circumstances. Some of the methods and circumstances are described as follows:

- a) the subtraction method will likely be utilized in those instances involving the Basin-Fruitland Coal Gas Pool and in those instances where a zone with a well established decline rate is commingled with a newly completed zone;
- b) a fixed allocation formula will be utilized in those instances where production history for both zones is available, or in those instances where newly completed zones are tested and stabilized flow rates obtained.

(12) The allocation methods proposed by the applicant are routinely utilized by industry and approved by the Division and therefore, the proposal to except allocation formulas should be approved.

(13) In support of its request to establish a "reference case" or administrative procedure for providing notice within the San Juan 28-5 Unit the applicant presented evidence and testimony which indicates that:

- a) the interest ownership between two zones within a given wellbore in the San Juan 28-5 Unit is generally not common;
- b) pursuant to Division Rule No. 303.D., applicant is currently required to notify all interest owners within the San Juan 28-5 Unit every time a Form C-107-A is submitted to the Division. There are a considerable number of such interest owners within the unit;

- c) providing notice to each interest owner within the San Juan 28-5 Unit of subsequent downhole comminglings is unnecessary and is an excessive burden on the applicant;
- d) the downhole commingling of wells within the San Juan 28-5 Unit Area will benefit working, royalty, and overriding royalty interest owners. In addition, the downhole commingling of wells within the San Juan 28-5 Unit should not violate the correlative rights of any interest owner;
- e) no interest owner appeared at the hearing in opposition to the establishment of a "reference case" or administrative procedure for notice.

(14) An administrative procedure should be established within the San Juan 28-5 Unit for obtaining approval for subsequent downhole commingled wells without notice to Unit interest owners, provided however that, all other provisions contained within Division Rule No. 303.C. are complied with.

(15) Approval of the proposed "reference cases" for marginal economic criteria, pressure criteria, allocation formulas and notice will lessen the burden on the applicant insofar as providing the data required pursuant to Division Rule No. 303.D. and Form C-107-A, will provide the applicant a streamlined method for obtaining downhole commingling approvals within the San Juan 28-5 Unit, and will not violate correlative rights.

**IT IS THEREFORE ORDERED THAT:**

(1) The application of Burlington Resources Oil & Gas Company to establish a "reference case" for (a) marginal economic criteria, (b) pressure criteria, (c) allocation formulas and (d) modification of notification rules on a unit-wide basis for downhole commingling of Dakota, Mesaverde, Fruitland Coal and Pictured Cliffs gas production within existing or future drilled wells within the San Juan 28-5 Unit, San Juan County, New Mexico, is hereby approved.

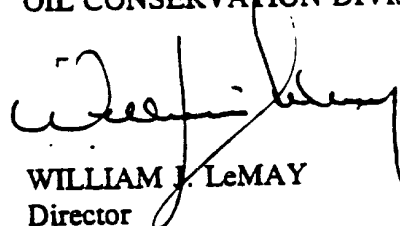
(2) Upon filing of Division Form No. C-107-A's for wells subsequently downhole commingled within the San Juan 28-5 Unit Area, the applicant shall not be required to submit supporting data to justify the classification of the Pictured Cliffs and Dakota formations as "marginal", supporting data to verify the Pictured Cliffs and Dakota pressure information provided, and support or justification for utilizing a given method or formula for allocation of production, provided however, in the event any of the data described above appearing on Form C-107-A appears to be beyond the data range provided in this case, the Division may require the submittal of additional supporting data.

(3) In order to obtain Division authorization to downhole commingle wells within the San Juan 28-5 Unit, the applicant shall file a Form C-107-A with the Santa Fe and Aztec Offices of the Division. Such application shall contain all the information required under Rule No. 303.C. of the Division Rules and Regulations, provided however that the applicant shall not be required to provide notice to all interest owners within the San Juan 28-5 Unit of such proposed commingling.

(4) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

  
WILLIAM J. LeMAY  
Director

S E A L