NHC 3/6/97 11/03

BURLINGTON RESOURCES	V	<u>স</u> এ হা		
SAN JUAN DIVISION	Ţ	FEB I	4 1997	
February 13, 1997				have the second s
SENT FEDERAL EXPRESS		ONSERVA	TION DIV	ISION

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

Re: San Juan 28-6 Unit #207M 1450'FNL, 1575'FWL Section 10, T-28-N, R-6-W, Rio Arriba County, NM API #30-039-25612

Dear Mr. LeMay:

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

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. Expected production curves;
- 4. Notification list of offset operators;
- 5. Shut in wellhead pressure and calculated down hole pressure;
- 6. Nine-section plats for the Mesa Verde and Dakota.

Notification of Mesa Verde and Dakota interest owners is covered under Reference Order #R-10696 issued November 7, 1996 attached.

We will consult with the Supervisor of the Aztec District Office of the New Mexico Oil Conservation Division to establish an allocation formula.

Please let me know if you require additional data.

Sincerely,

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Peggy Bradfield Regulatory/Compliance Administrator

encs.

DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980 DISTRICT II 811 South First St., Artesia, NM 88210-2835 DISTRICT III

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## 1000 Rio Brazos Rd, Aztec, NM 87410-1693

## State of New Mexico Energy, Minerals and Natural Resources Department **OIL CONSERVATION DIVISION**

Form C-107-A New 3-12-96 **APPROVAL PROCESS** : \_\_X Administrative \_\_\_\_Hearing **EXISTING WELLBORE** \_\_\_ YES \_\_X NO

## 2040 S. Pacheco Santa Fe, New Mexico 87505-6429

**APPLICATION FOR DOWNHOLE COMMINGLING** 

<sup>Operator</sup> Burlington Resources Oil & Gas Company		PO Box 4289, Farming	ton, NM 87499
Lease San Juan 28-6 Unit	Well No. 207M	Unit Ltr Sec - Twp - Rge D 10-27-6	County Rio Arriba
			Spacing Unit Lease Types: (check 1 or more)

OGRID NO. \_\_014538\_

Property Code

\_7462\_\_\_API NO. \_\_\_30-039-25612\_\_ Federal \_\_x\_\_, 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	Mesa Verde - 72319		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	(Current) a. 666 psi (see attachment)	а.	a. 599 psi (see attachment)	
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. 1275 psi (see attachment)	b.	b. 3211 psi (see attachment)	
6. Oil Gravity (°API) or Gas BTU Content	BTU 1198		BTU 1054	
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? If not, have all working, overriding, and royalty interests been notified by certified mail? Have all offset operators been given written notice of the proposed downhole commingling? \_\_\_\_Yes \_x\_\_No \_\_\_Yes \_x\_\_No \_\_x\_Yes \_\_\_No
- Will cross-flow occur?
   \_x\_\_ 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.
   \_\_\_ X\_\_ Yes
   \_\_\_ No
   (If No, attach explanation)

   11. Will cross-flow occur?

12. Are all produced fluids from all commingled zones compatible with each other? x\_\_\_Yes\_ No

- 13. Will the value of production be decreased by commingling? \_\_\_ Yes \_x\_\_ 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. \_X\_Yes \_\_\_\_ No

15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). ... Reference Order # R-10696 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 5 a.S.T.	TITLE _Production Engineer DATE02-13-97	
TYPE OR PRINT NAMEJames A. Smith	TELEPHONE NO. (505) _327-9700	

PO Hos 1980, Hubbs, NM 88241-1989 District II PC Drawer DD, Artesia, NM 88211-0719 District III 1009 Kio Hrazus Rd., Aztec, NM 87410 District IV PO Bus 2008, Santa Fc, NM 87504-2088 State of New Mexico Energy, Marris & Netural 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

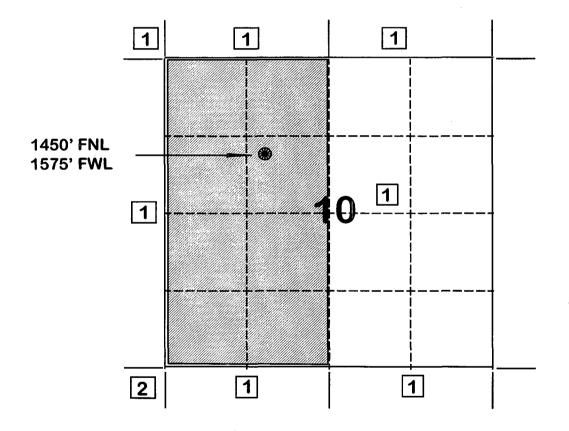
#### WELL LOCATION AND ACREAGE DEDICATION PLAT ' Pool Name API Number <sup>1</sup> Poel Code 30-039- 25612 72319/71599 Blanco Mesaverde/Basin Dakota \* Property Code \* Property Name . Well Number San Juan 28-6 Unit 207M 7462 Operator Name 6239' OCRID No. BURLINGTON RESOURCES OIL & GAS COMPANY 14538 <sup>10</sup> Surface Location Range Feet from the North/South Line Feet from the UL or lot no. Section Township Lot Ida East/West tipe County 10 27-N 6-W 1450 North 1575 West R.A. F <sup>11</sup> Bottom Hole Location If Different From Surface Lot Ida Fort from the North/South line Feet from the East/West line UL or lot as. Section Townshie Range County " Joint or (afill | " Constidution Code | " Order No. W/320 W/320 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 <sup>17</sup> OPERATOR CERTIFICATION 5227.20 I have certify that the info hadried gaanin 1575 Peggy Bradfield Printed Name Regulatory Administrator FEE This 11-25-96 Dete **III** MO: <u>G</u> <sup>18</sup>SURVEYOR CERTIFICATION ط لنمي م DIV Jo a deid parts of 0 ni an DIST n. and that the n 5 nt of my ballet. .. 10/15/96 Date of Surve C. E0. SF-079**3**63 885 5252.28'

## BURLINGTON RESOURCES OIL AND GAS COMPANY

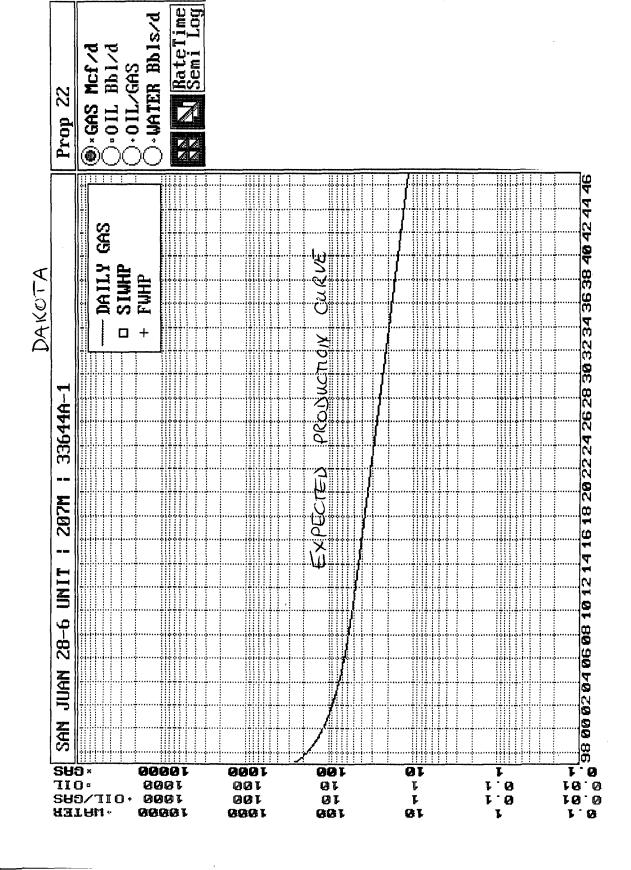
## San Juan 28-6 Unit #207M OFFSET OPERATOR \ OWNER PLAT

## Mesaverde / Dakota Formations Commingle Well

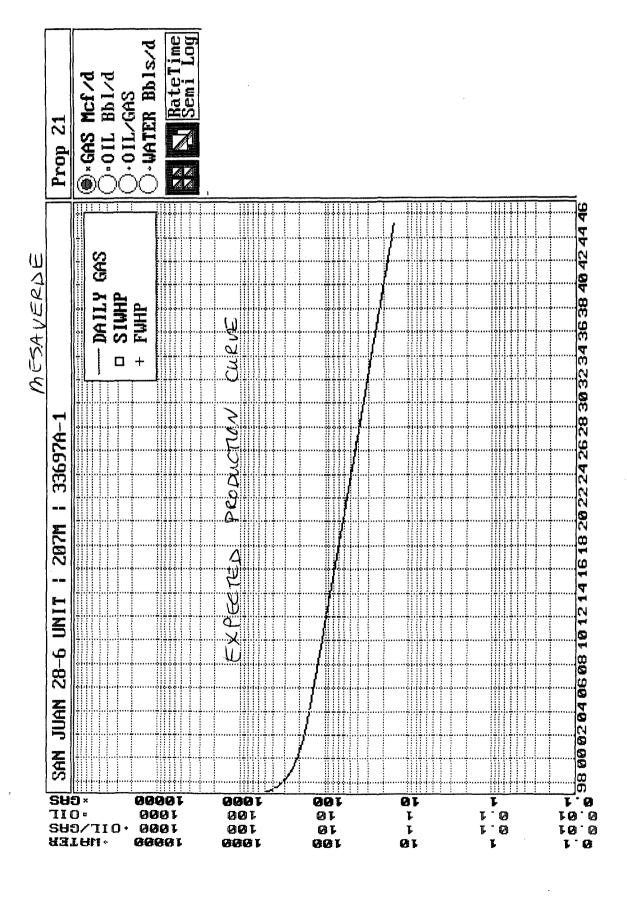
Township 27 North, Range 6 West



- 1) Burlington Resources Oil and Gas Company Successor to Meridian Oil Inc.
- 2) UNOCAL Corp. 1004 North Big Spring, Suite 300 Midland, TX 79702



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#### FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD VERSION 1.0 3/13/94

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GAS GRAVITY	0.614
COND. OR MISC. (C/M)	<u> </u>
%N2	0.15
%CO2	1.2
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	7458
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	2700
BOTTOMHOLE PRESSURE (PSIA)	3210.9

SAN JUAN 28-6 UNIT #206 DAKOTA -ORIGINAL

#### BHPDKCUR.XLS

#### FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD VERSION 1.0 3/13/94

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GAS GRAVITY	0.614
COND. OR MISC. (C/M)	C
%N2	0.15
%CO2	1.2
%H2S	
DIAMETER (IN)	1.5
DEPTH (FT)	7458
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	513
BOTTOMHOLE PRESSURE (PSIA)	599.4

#### SAN JUAN 28-6 UNIT #206 DAKOTA - CURRENT

Page No.: 1 Print Time: Tue Jan 28 13:25:42 1997 Property ID: 1892 Property Name: SAN JUAN 28-6 UNIT | 206 | 44080A-1 SJ\_Z8-L #Z07m Table Name: K:\ARIES\RR97PDP\TEST.DBF Jakota Offset

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#### FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD VERSION 1.0 3/13/94

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GAS GRAVITY	0.702
COND. OR MISC. (C/M)	C
%N2	0.29
%CO2	0.8
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	5364
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	
SURFACE PRESSURE (PSIA)	1095
BOTTOMHOLE PRESSURE (PSIA)	1274.5

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SAN JUAN 28-6 UNIT #24 MESAVERDE -ORIGINAL

#### FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD VERSION 1.0 3/13/94

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GAS GRAVITY	0.702
COND. OR MISC. (C/M)	<u> </u>
%N2	0.29
%CO2	0.8
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	5364
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	580
BOTTOMHOLE PRESSURE (PSIA)	666.3

SAN JUAN 28-6 UNIT #24 MESAVERDE -ORIGINAL

Page No.: 1 Print Time: Tue Jan 28 13:25:07 1997 Property ID: 3994 Property Name: SAN JUAN 28-6 UNIT | 24 | 49372A-1 Table Name: K:\ARIES\RR97PDP\TEST.DBF Mesaverde offset

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06/04/62	289000	654.0
08/02/63	330000	645.0
04/22/64	355000	635.0
05/03/65	388000	619.0
06/07/66	421000	634.0
05/25/67	448000	611.0
05/27/68	477000	605.0
07/28/70	540011	536.0
06/22/71	570514	496.0
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### 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. 11628 ORDER NO. R-10696

APPLICATION OF BURLINGTON RESOURCES OIL & GAS COMPANY FOR THE ESTABLISHMENT OF A DOWNHOLE COMMINGLING "REFERENCE CASE" FOR ITS SAN JUAN 28-6 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 28-6 Unit, San Juan County, New Mexico.

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

a

"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 28-6 Unit which encompasses some 27,735 acres in Townships 27 and 28 North, Range 6 West, NMPM. San Juan County, New Mexico.

(5) Within the San Juan 28-6 Unit, the applicant currently operates ninety (90) Basin-Dakota Gas Pool wells, one hundred twenty-six (126) Blanco-Mesaverde Gas Pool wells, fifty-one (51) South Blanco-Pictured Cliffs Gas Pool wells, and fifty-eight (58) 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 28-6 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 28-6 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 28-6 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 28-6 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 28-6 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 449 MMCFG and 186 MMCFG, respectively;
- c) the average initial producing rate for a newly drilled or recompleted Dakota and Pictured Cliffs gas well is approximately 254 MCFGD and 216 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 28-6 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 28-6 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 was approximately 3,172 psi and 1,173 psi, respectively; and,
- b) the average current shut-in bottomhole pressure within the Dakota and Pictured Cliffs formations is approximately 980 psi and 393 psi, respectively.

(10) There is sufficient pressure data available within the San Juan 28-6 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 28-6 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 28-6 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 28-6 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 28-6 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 28-6 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 28-6 Unit Area will benefit working, royalty, and overriding royalty interest owners. In addition, the downhole commingling of wells within the San Juan 28-6 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 28-6 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 28-6 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 28-6 Unit, San Juan County, New Mexico, is hereby approved. CASE NO. 11628 Order No. R-10696 Page -6-

(2) Upon filing of Division Form No. C-107-A's for wells subsequently downhole commingled within the San Juan 28-6 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 28-6 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 28-6 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

M J. LeMAY

SEAL