BURLINGTON	V
RESOURCES	

SAN JUAN DIVISION

February 13, 1997

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SENT FEDERAL EXPRESS

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

Re: San Juan 28-6 Unit #165M 1645'FSL, 990'FEL Section 30, T-28-N, R-6-W, Rio Arriba County, NM API #30-039-25612

ECE

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 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;
- Notification list of offset operators Burlington is the offset operator;
- 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, Stadfield

Peggy Bradfield Regulatory/Compliance Administrator

xc: Bureau of Land Management

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 CONSER	VATION DIVIS	SION

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 $DH \subset 3/1/97$

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 87505-6429

Form C-107-A New 3-12-96 **APPROVAL PROCESS** : _X_Administrative ____Hearing

EXISTING WELLBORE

DO Day 4290 Earminaton NM 97400

__ YES __X_ NO

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APPLICATION FOR DOWNHOLE COMMINGLING

Burlington Resources Oil &	•	PO Box 4209, Familiyton, NM 07499	
Operator		Address	
San Juan 28-6 Unit	165M	1 30-28-6	Rio Arriba
Lease	Well No.	Unit Ltr Sec - Twp - Rge	County Spacing Unit Lease Types: (check 1 or more)
OGRID NO14538 Property	Code7462 API_NO	30-039-25624Federalx	<, State, (and/or) Fee
The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	e Lower Zone
1. Pool Name and Pool Code	Blanco Mesaverde - 72319		Basin Dakota - 71599

2. Top and Bottom of Pay Section (Perforations)	completion		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. 759 psi (see attachment)	а.	a. 880 psi (see attachment)
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. 1280 psi (see attachment)	Ь.	b. 3236 psi (see attachment)
6. Oil Gravity ([°] API) or Gas BTU Content	BTU 1214		BTU 1078
7. Producing or Shut-In?	shut in		shut in
Production Marginal? (yes or no)	по		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: Rates:	Date: Rates:	Date: Rates:
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: 6as: % % 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 _x No
If not, have all working, overriding, and royalty interests been notified by certified mail?	YesxNo YesxNo
Have all offset operators been given written notice of the proposed downhole commingling?	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.

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• Property Code 7462				' Property i				· Well Number
7402				San Juan 'Operator i	28-6 Unit			<u>165M</u>
14538		BURLIN	GTON		OIL & GAS	COMPANY		6650'
			<u></u>	¹⁰ Surface	Location			
UL or lot by. Section	Township	Range	Lot Ids	Feet from the	North/South line	Feet (rom the	East West Li	ne County
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		¹¹ Botto	m Hole	e Location II	Different Fro	om Surface		
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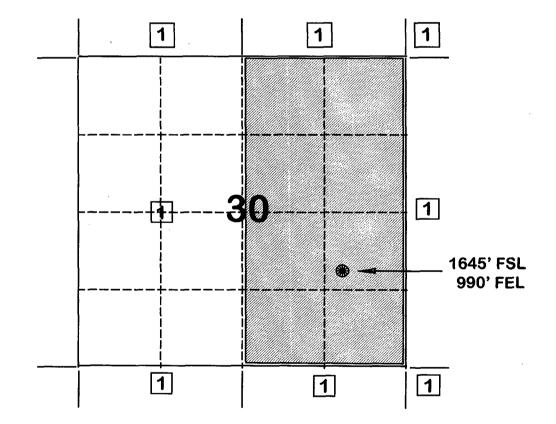
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BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 28-6 Unit #165M OFFSET OPERATOR \ OWNER PLAT

Mesaverde/Dakota Formations Commingle Well

Township 28 North, Range 6 West



1) Burlington Resources Oil and Gas Company

08/02/72	0	2688.0 ~ Driginal
10/19/72	30809	1828.0
09/04/73	156985	972.0
04/16/74	207691	933.0
05/05/75	291900	855.0
00/17/77	387671	877.0
00/17/77	387671	877.0
00/17/77	387671	877.0
10/17/77	428480	877.0
06/28/79	512595	807.0
07/13/81	611251	719.0
10/12/83	686234	839.0
06/27/85	791549	822.0
10/04/88	912004	712.0
05/29/90	954354	812.0
05/28/92	1009329	742.0€ Wrient

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

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GAS GRAVITY	0.627
COND. OR MISC. (C/M)	C
%N2	0.11
%CO2	1.13
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	7756
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	2688
BOTTOMHOLE PRESSURE (PSIA)	3235.6

SAN JUAN 27-5 UNIT #165 DAKOTA - ORIGINAL

BHPDKCUR.XLS

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

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GAS GRAVITY	0.627
COND. OR MISC. (C/M)	C
%N2	0.11
%CO2	1.13
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	7756
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	742
BOTTOMHOLE PRESSURE (PSIA)	880.0

SAN JUAN 27-5 UNIT #165 DAKOTA - CURRENT

Page No.: 1
 Print Time: Mon Jan 27 15:42:47 1997
 Property ID: 4010
 Property Name: SAN JUAN 28-6 UNIT | 35 | 49445A-1 55 28-4 #145m
 Table Name: K:\ARIES\RR97PDP\TEST.DBF
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04/24/57	137000	718.0
10/29/58	251000	590.0
08/22/59	298000	587.0
03/29/60	327000	621.0
10/13/61	405000	555.0
04/23/62	416000	621.0
02/22/63	450000	641.0
02/24/64	494000	603.0
02/25/65	539000	603.0
01/04/66	577000	599.0
01/23/67	619000	566.0
01/02/68	661000	556.0
08/19/70	766484	544.0
03/23/71	793824	505.0
08/08/72	858204	469.0
04/16/74	912433	509.0
06/08/76	983932	514.0
12/04/86	1213539	652.0 & Writer

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

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GAS GRAVITY	0.713
COND. OR MISC. (C/M)	<u> </u>
%N2	0.36
%CO2	0.79
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	5692
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	652
BOTTOMHOLE PRESSURE (PSIA)	759.0

SAN JUAN 27-5 UNIT #35 MESAVERDE - CURRENT

BHPMVORG.XLS

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

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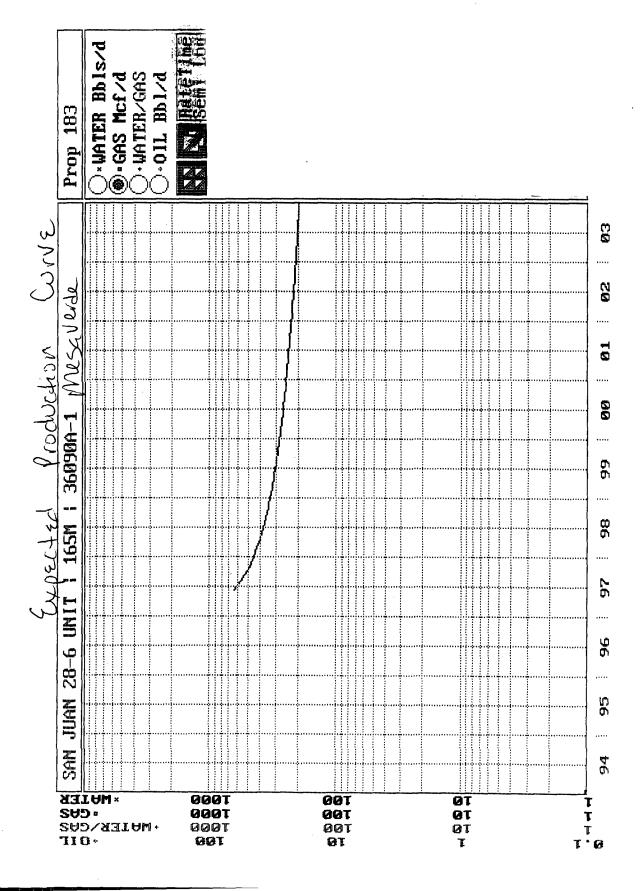
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GAS GRAVITY	0.713
COND. OR MISC. (C/M)	<u> </u>
%N2	0.36
%CO2	0.79
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	5692
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1086
BOTTOMHOLE PRESSURE (PSIA)	1280.2

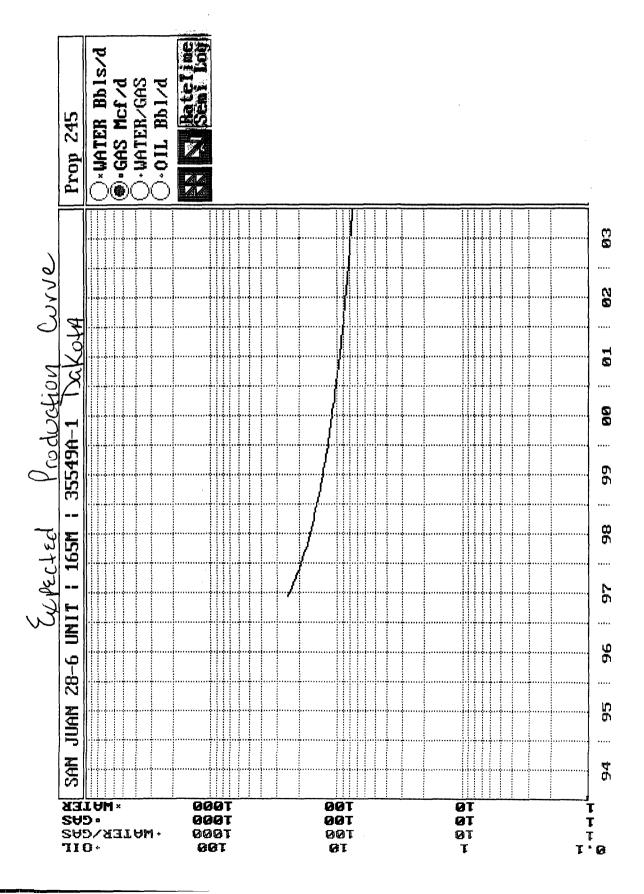
SAN JUAN 27-5 UNIT #35 MESAVERDE - ORIGINAL

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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:**

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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:

## CASE NO. 11628 Order No. R-10696 Page -2-

"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;

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- 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;

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- 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.

OIL CONSERVATION DIVISION WILLIAM J. LEMAY Director

STATE OF NEW MEXICO

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