DATE IN 10/21/97 SUSPENSE 10/97 ENGINEER DC LOGGED W TYPE DH	C
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ABOVE THIS LINE FOR DIVISION USE ONLY

### NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

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<b>ADMINISTRATIVE</b>	APPL	<b>ICATION</b>	COVERSHEET
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THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

	THIS COVERSHE	ET IS MANUATURE FOR ALL ADMINISTRATIVE AFFECTIONS TO SECURITIONS TO SECURITION OF SECU
Applic	(PC-Pa	[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] [PLC-Pool/Lease Commingling] [PLC-Pool/Lease Commingling] [SUB-Sait Water Disposal] [PMX-Pressure Maintenance Expansion] [SWD-Sait Water Disposal] [IPI-Injection Pressure Increase] [SIGNATION OF THE PROPOSAL OF THE PR
[1]	TYPE OF A	PPLICATION - Check Those Which Apply for [A]  Location - Spacing Unit - Directional Drilling  NSL NSP DD DSD 0CT 2   1997
	Check [B]	Cone Only for [B] and [C]  Commingling - Storage - Measurement  DHC CTB PC COLS COLM
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  ☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR
[2]	NOTIFICAT	TION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply ☐ Working, Royalty or Overriding Royalty Interest Owners
	[B]	☐ Offset Operators, Leaseholders or Surface Owner
	[C]	☐ Application is One Which Requires Published Legal Notice
	[D]	Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
	[E]	☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
	[F]	☐ Waivers are Attached
[3]	INFORMAT	TION / DATA SUBMITTED IS COMPLETE - Statement of Understanding
I here	by certify that l	, or personnel under my supervision, have read and complied with all applicable Rul

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

_			
	Note: Statement must be compl	leted by an individual with supervisory capacity.	
Peggy Bradfield	Helhuld	Regulatory/Compliance Administrator	10-20-97
Print or Type Name	Signature	Title	_ Date

## BURLINGTON RESOURCES

SAN JUAN DIVISION

October 20, 1997

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

Re:

San Juan 28-6 Unit #150M

870'FNL, 1110'FWL Section 35, T-28-N, R-06-W, Rio Arriba County, NM

API #30-039-25733

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 1998 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;
- C-102 plat for each zone showing its spacing unit and acreage dedication;
- 3. Anticipated production curve for the Mesa Verde and Dakota for at least year;
- 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.

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,

Peggy Bradfield

Regulatory/Compliance Administrator

Xc:

Bureau of Land Management - Farmington

NMOCD - Aztec

#### DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

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

#### New 3-12-96

## DISTRICT II

2040 S. Pacheco Santa Fe, New Mexico 87505-6429 APPROVAL PROCESS:

811 South First St., Artesia, NM 88210-2835 <u>DISTRICT III</u>

1000 Rio Brazos Rd, Aztec, NM 87410-1693

#### APPLICATION FOR DOWNHOLE COMMINGLING

\_X\_ Administrative \_\_\_Hearing EXISTING WELLBORE

\_\_YES \_xNO

						rmingto	on, NM 87499
San Juan 28-6 Unit	150 <b>M</b>		-28N-6W				Arriba
Lease	Well No.	Unit L	tr Sec - Twp - F	Rge	Spacing Uni	_	ounty es: (check 1 or more)
OGRID NO14538 Property 0	ode7462	_ API NO30-	-039-25733	Federal _	_X, St	ate	, (and/or) Fee
The following facts are submitted in support of downhole commingling:	ZONE Zasak	New Texts (New York (New Y	Int	ermediate Zone	1942 1942 1943		Zone Zone
1. Pool Name and Pool Code	Blanco Mesaverde	e - 72319				Dasin Da	akota - 71599
Top and Bottom of Pay Section (Perforations)	will be supplied up completion	pon				will be se completi	upplied upon ion
Type of production     (Oil or Gas)	gas				1	gas	
Method of Production     (Flowing or Artificial Lift)	flowing					flowing	
5. Bottomhole Pressure Oil Zones - Artificial Lift:	(Current) a. 723psi (see att	achment)	a.			a. 1133	psi (see attachment)
Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. 1273 psi (see a	nttachment)	b.			b. 3252	psi (see attachment)
6. Oil Gravity (°API) or Gas BTU Content	BTU 1223					BTU 112	24
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	Date: n/a Rates:		Date: Rates:			Date: n/a Rates:	
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 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:		Oil: %	Gas: %			Gas: %
9. If allocation formula is based submit attachments with supp 10. Are all working, overriding, and If not, have all working, overrid Have all offset operators been 11. Will cross-flow occur?xY production be recovered, and	d royalty interests ling, and royalty in given written notic	identical in all iterests been ce of the prop	commingled notified by ce osed downho	d zones? ertified ma ole commin	il? igling?	Yes Yes _x_Yes	_x_No _x_No No
12. Are all produced fluids from all					_x_ Yes _	-	
13. Will the value of production be					s, attach e	. •	. • •
14. If this well is on, or communit Bureau of Land Management ha					oner of P s No	ublic Lar	nds or the United States
15. NMOCD Reference Cases for R	ule 303(D) Excepti	ions: ORDER	NO(S)	R-1069	)6		
16. ATTACHMENTS:  * C-102 for each zone  * Production curve for  * For zones with no pr  * Data to support allor  * Notification list of all  * Any additional states	to be commingled each zone for at in oduction history, e cation method or for loffset operators. orking, overriding, ments, data, or do	showing its s east one year estimated pro- ormula. and royalty in cuments requi	pacing unit a . (If not avail duction rates sterests for u ired to suppo	ind acreagiable, atta and suppo incommon ort commin	e dedicat ch explan orting dat interest c gling.	ion. ation.) a. :ases.	
I hereby certify that the inform	nation above is	true and co	mplete to ti	he best o	f my kno	wledge	and belief.
SIGNATURE Jan Wa	herter .	TITLEProc	duction Eng	gineer	DA	TE1	0/17/97
TYPE OR PRINT NAME Sea	n C. Woolverton	TFI F	PHONE NO	(505)	326-0	700	

District I PO Box 1910, Hobbs. NM 88241-1989 District II PO Drawer OD. Artesia, NM 88211-0719 District III 1000 Rio Brazza Rd., Azzez, NM 87410 District IV

# State of New Mexico Energy, Minerals & Natural Memorrem Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-10 Revised February 21, 199 Instructions on bac

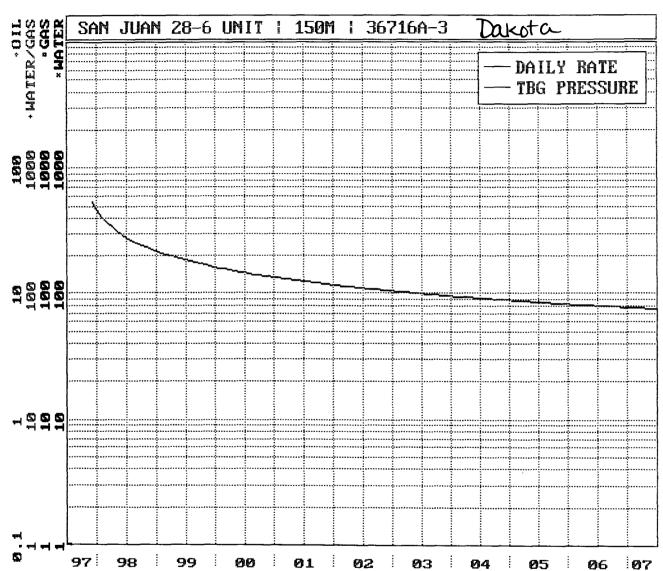
Submit to Appropriate District Offic State Lease - 4 Copic

Fee Lones - 3 Copie

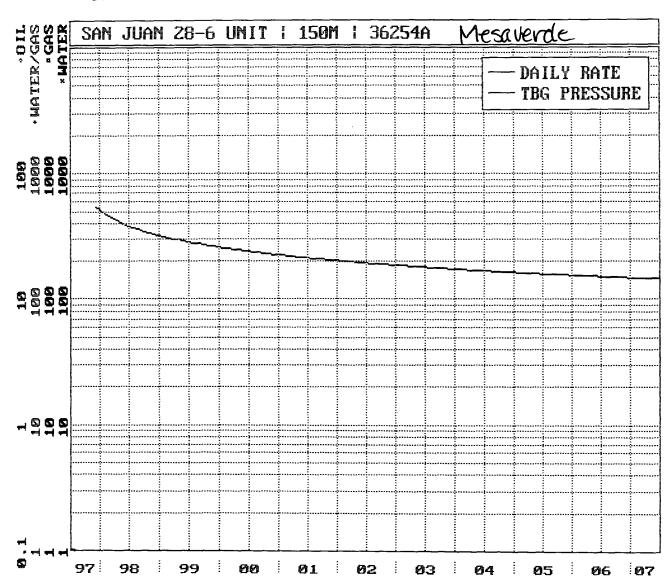
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# EXPECTED PRODUCTION CURVE



# EXPECTED PRODUCTION CURVE

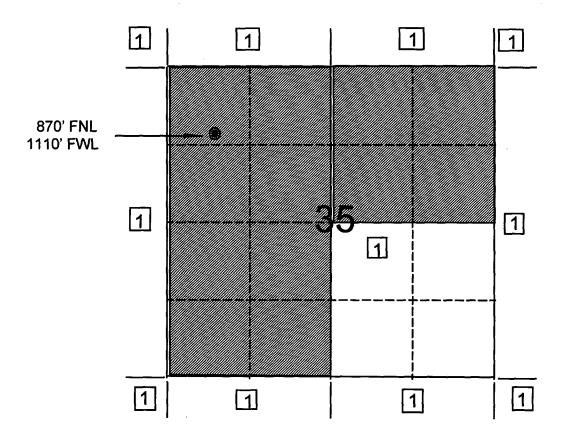


#### **BURLINGTON RESOURCES OIL AND GAS COMPANY**

### San Juan 28-6 Unit #150M OFFSET OPERATOR \ OWNER PLAT

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

Township 28 North, Range 6 West



1) Burlington Resources Oil and Gas Company

#### San Juan 28-6 Unit #150M

Bottom Hole Pressures Flowing and Static BHP Cullender and Smith Method Version 1.0 3/13/94

Mesaverde	Dakota				
<u>MV-Current</u>	DK-Current				
GAS GRAVITY COND. OR MISC. (C/M)  %N2  %CO2  %H2S  DIAMETER (IN)  DEPTH (FT)  SURFACE TEMPERATURE (DEG F)  BOTTOMHOLE TEMPERATURE (DEG F)  SURFACE PRESSURE (PSIA)  BOTTOMHOLE PRESSURE (PSIA)  0.719  C.  0.44  0.44  0.74  1.25  60  60  60  60  60  60  60  60  60  6	GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA)	0.657 C 0.17 1.07 0 1.5 7793 60 198 0 940			
MV-Original	DK-Original	·			
GAS GRAVITY COND. OR MISC. (C/M)  %N2  %CO2  %H2S  DIAMETER (IN)  DEPTH (FT)  SURFACE TEMPERATURE (DEG F)  BOTTOMHOLE TEMPERATURE (DEG F)  SURFACE PRESSURE (PSIA)  DOTES	GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA)	0.657 C 0.17 1.07 0 1.5 7793 60 198 0 2667			

Page No.: 5
Print Time: Wed Oct 08 11:47:51 1997

Property ID: 1832
Property Name: SAN JUAN 28-6 UNIT | 113 | 50754A-1
Table Name: K:\ARIES\RR98PDP\TEST.DBF

Table	Name: K:\ARII	ES\RR98PDP\	TEST.DBF	
	CUM_GAS	Psi	•	San Juan 286 Unit #150 M
10/07/63	0	2667.0 <b>-0</b>	riainal	Dakota Offset
10/30/63	0	2666.0	•	nceset
10/01/64	93000	1351.0		Dakota Ulise
09/08/65	178000	1182.0		
04/12/66	247000	1035.0		
03/22/67	319000	1250.0		
04/01/68	382000	1092.0		
08/19/69	494101	867.0		
05/25/70	542382	991.0		
05/04/71	608545	1015.0		
05/22/72	677963	933.0		
08/21/73	757073	911.0		
06/24/75	866668	992.0		
08/08/77	1008401	825.0		
04/24/79	1106719	890.0		
09/29/81	1226002	954.0		
09/22/83	1283949	976.0		
11/07/85	1344595	1004.0		
01/07/86	1361852	920.0		
10/15/88	1431430	1052.0		
06/08/90	1505898	1002.0	urront	
03/29/92	1576332	940.0-	current	

Page No.: 3

--DATE-- ---CUM GAS-- M SIWHP

Print Time: Wed Oct 08 11:47:50 1997

Property ID: 4086

Property Name: SAN JUAN 28-6 UNIT | 88 | 50188A-1 Table Name: K:\ARIES\RR98PDP\TEST.DBF

San Juan 28-6 Unit #150M Mesaverde Offset

	Mcf	Psi
07/20/50	0	1077 o = prining!
07/30/58	0	1077.0 - original
10/13/58	0	1080.0
06/14/59	39000	977.0
06/14/60	145000	
06/13/61	186000	748.0
05/29/62	254000	735.0
05/09/63	335000	709.0
05/20/64	414000	645.0
09/08/65	490000	620.0
04/12/66	518000	669.0
03/22/67	557000	656.0
10/10/68	625000	655.0
12/22/69	688638	591.0
05/25/70	716362	564.0
05/04/71	785483	516.0
05/22/72	847033	501.0
08/21/73	934555	368.0
07/31/74	990464	432.0
07/12/76	1106479	408.0
05/15/78	1169837	492.0
04/18/80	1241758	
04/07/86		
09/18/89		
09/04/91	1481817	632 0
10/21/91	1485207	620.0 - Current

# San Juan 28-6 Unit #150M Blanco Mesaverde / Basin Dakota 28N-06W-35D

Mil (c)	NM 403	NM 305 NM 305 STR 200	NJ 306	AN THE 400 SEA AN THE	TD _ 120 NM 305
NM 403 ⊕ 2A 7 984 ⊠ \$€12	Nw 403 8 ⊕ <sup>CD</sup> Λ	55 MM U8 9	5 NW 305 ₩ 10	NM 305 402 56Λ NM 305 136 136 138 138 138 138 138 138 138 138 138 138	TD\20
S.J. 28-6 Unit	S.J. 28-6 Unit	NM 158 S.J. 28-6 Unit	S.J. 28-6 Unit NM 6832 22	S.J. 28-6 1 hut	S.J. 28-6 Unit
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S.J. 28-6 Unit NM 908 NM 6833 ,22	S.J. 28-6 Unit NM 6833 ,22	S.J. 28-6 Unit NM 6833 ,22	S.J. 28-6 Unit NM 6833 ,22	S.J. 28-6 Uml NM 6616 NM 2308 NM 6616	S.J. 28-6 Unit NM 6756 NM 6551
50A SS N5	**************************************	∞ <b>⊕</b>	® <sub>8</sub> ⊠	58 ⊕ <sup>76</sup> A 138 <del>∑</del> 38	99M 65 539
19	20	<sub>21</sub> 28-6	UNIT 22		<u>M</u>
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30	51 66 147M 153 1470 1470 1470 1470 1470 1470 1470 1470	55 NN 6594	8	26	25
NN 4552 (RASN) 275 (RASN) 52	NM 1022222 (TENNECO) 14 (TENNECO) 74	NM 028  NM 028  (TENNECO)  16 SS	NM 10218 (TENNECO)	S.J. 28-6 Uml NM 6593 22  15011 P	S.J. 28-6 L/MI NM 6603 NM 6603 91 NM 6700
31 7	32 NM 1022422 (TENNECO) 82 3 102	33 NM 1022422 (TENNECO) #5 ∰ 33	34 NM 1022422	35 S8 NM 6587	NM 6602 22 NM 6610
S.J. 28-6 Unit	S.J. 28-6 Unit	S.J. 28-6 Utvl	S.J. 28-6 Unit	S.J. 28-6 Unil	6623 P S.J. 28-6 Unit

# 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:

- 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:

- 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.