DANEI	10/7/97	SUSPENSE 7/97	ENGINEER D	LOGGED W	TYPE 5 #C	
	NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau -					
	ADMINISTRATIVE APPLICATION COVERSHEET THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS					
Applic	[PC-P	[NSP-Non-Standard [DD-Direction with the comming of the comming	d Proration Unit] (NSL- nal Drilling] (SD-Simulta (CTB-Lease Commingli OLS - Off-Lease Storage) pansion] (PMX-Pressure or Disposal) (IPI-Injectio Recovery Certification)	neous Dedication] ng] [PLC-Pool/Lease ([OLM-Off-Lease Meas Maintenance Expansion n Pressure Increase]	Commingling) urement) n)	
(13	TWDE OF A	DDI ICATION C	hook Thogo Which Ann	ly for [A]	ELVED	
[1]	[A]		heck Those Which App g Unit - Directional Dri SP 🔲 DD 🔲 S	lling	- 7 1997	
	Check [B]	k One Only for [B] a Commingling - St PHC	orage - Measurement	c ols oc	DLM	
	[C]	Injection - Dispos □ WFX □ PM	al - Pressure Increase -		ry PPR	
[2]	NOTIFICATION [A]		TO: - Check Those Walty or Overriding Roya		s Not Apply	
	[B]	☐ Offset Operato	rs, Leaseholders or Sur	face Owner		
	[C]	☐ Application is	One Which Requires Pr	ublished Legal Notice		
	[D]	Notification and U.S. Bureau of Land	nd/or Concurrent Appro d Management - Commissioner of Po	val by BLM or SLO ablic Lands, State Land Office		
	[E]	For all of the a	bove, Proof of Notifica	tion or Publication is A	Attached, and/or,	
	[F]	☐ Waivers are At	ttached			
[3]	INFORMA	TION / DATA SUE	BMITTED IS COMPL	ETE - Statement of U	Inderstanding	
Regu appro RI, C	ulations of the Coval is accurate DRRI) is commo	Dil Conservation Div and complete to the	rision. Further, I assert best of my knowledge t any omission of data,	that the attached appl and where applicable,	th all applicable Rules and ication for administrative verify that all interest (Wation is cause to have the	
		Note: Statemen	t must be completed by an individual	with supervisory capacity.		
Peggy	Bradfield		? Regu	llatory/Compliance Administrato	, /o-3-9	

Title

Signature

Date

BURLINGTON RESOURCES

SAN JUAN DIVISION

October 3, 1997

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

Re:

San Juan 28-6 Unit #134M

2550'FNL, 480'FWL Section 5, T-27-N, R-06-W, Rio Arriba County, NM

API #30-039-not yet 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 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;
- 2. 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.

Spadnied

Sincerely,

Peggy Bradfield

Regulatory/Compliance Administrator

Xc:

Bureau of Land Management - Farmington

NMOCD - Aztec

<u>DISTRICT I</u>

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

APPLICATION FOR DOWNHOLE COMMINGLING

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

APPROVAL PROCESS:

X Administrative ___Hearing

EXISTING WELLBORE

· · · · · · · · · · · · · · · · · · ·						YES _xNO	
Burlington Resources Oil &	Gas Company	PO Box 4289, Farmington, NM 87499					
Operator		Addre	98				
SAN JUAN 28-6 UNIT	134M	E 5-27N-6W		Rio Arriba			
Lease	Well No.	Unit L	Unit Ltr Sec - Twp - Rge		County		
				Spacing Unit Lease Types: (check 1 or more)			
OGRID NO14538 Property	Code7462 #	API NO30-	039-not assigned	_Federal _	_X , State	, (and/or) Fee	
The following facts are submitted in support of downhole commingling:	Upper Zone	ani P	Intermedi Zone	ile	June 1500 And	Welf was a second of the control of	
1. Pool Name and Pool Code	Blanco Mesaverde -	72319			Basin Dakota -	71599	
2. Top and Bottom of Pay Section (Perforations)	will be supplied upo completion	n			will be supplied completion	upon	
3. Type of production (Oil or Gas)	gas				gas		
4. Method of Production (Flowing or Artificial Lift)	flowing				flowing		
5. Bottomhole Pressure	(Current) a. 827 psi (see attac	chment)	a.		a. 1058 psi (se	e attachment)	

Oil Zones - Artificial Lift: Estimated Current						
Gas & Oil - Flowing: Measured Current	(Original) b. 1250 psi (see attachment)	b.	b. 2500 psi (see attachment)			
All Gas Zones: Estimated or Measured Original	b. 1200 por (000 detablished)					
6. Oil Gravity (°API) or Gas BTU Content	BTU 1183		BTU 1101			
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:			
0.5110	Oil: Gas:	Oil: Gas:	Oil: Gas:			
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		will be supplied upon completion			
 10. Are all working, overriding, and if not, have all working, overriding, and if not, have all working, overriding, and if not, have all offset operators been 11. Will cross-flow occur? _x_ production be recovered, and 12. Are all produced fluids from all 13. Will the value of production be 14. If this well is on, or communitize Land Management has been no 15. NMOCD Reference Cases for R 16. ATTACHMENTS: 	d royalty interests identical in all ding, and royalty interests been given written notice of the property of the allocation formula be recommingled zones compatible decreased by commingling?	I commingled zones? notified by certified mail? osed downhole commingling? compatible, will the formations liablexYesNo (If N with each other?x_YesYes _X_No (If Yes, attach either the Commissioner of Pub onX_YesNo R-10696	_x_YesNo not be damaged, will any cross-flowed lo, attach explanation) No explanation) lic Lands or the United States Bureau o			
* 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 Sean Wo	objection_TITLE_Pro	duction EngineerDA	ATE10/02/97			
TYPE OR PRINT NAME Sea	n C. Woolverton TELE	PHONE NO. <u>(505)</u> <u>326-9</u>	700			

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

District II PO Drawer DD. Artesia, NM 88211-0719

District III 1000 Rio Brazos Rd., Aztec. NM 87410

District IV PO Box 2088, Santa Fe, NM 87504-2088

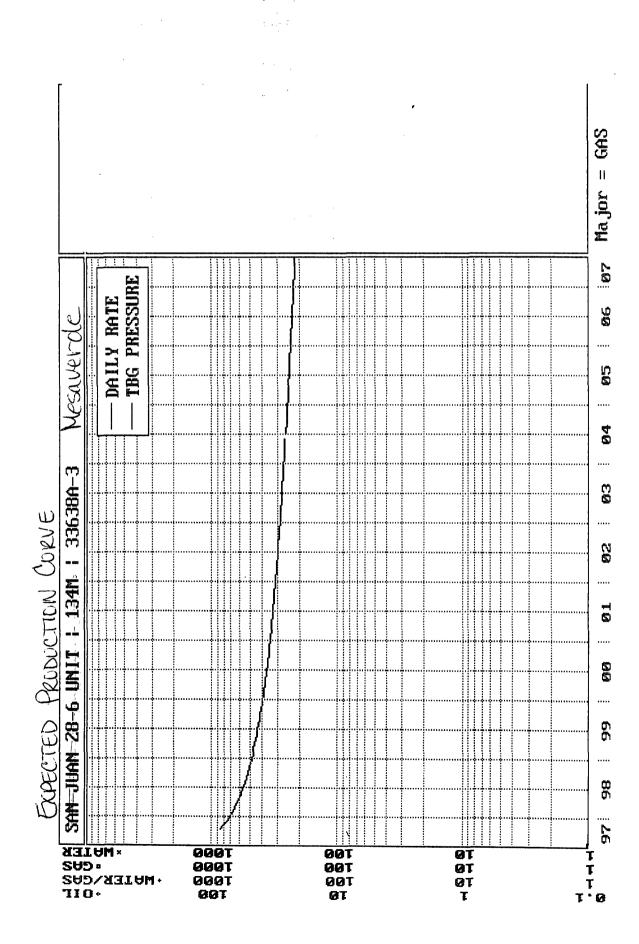
State of New Mexico Energy, Minerals & Natural Resources Department

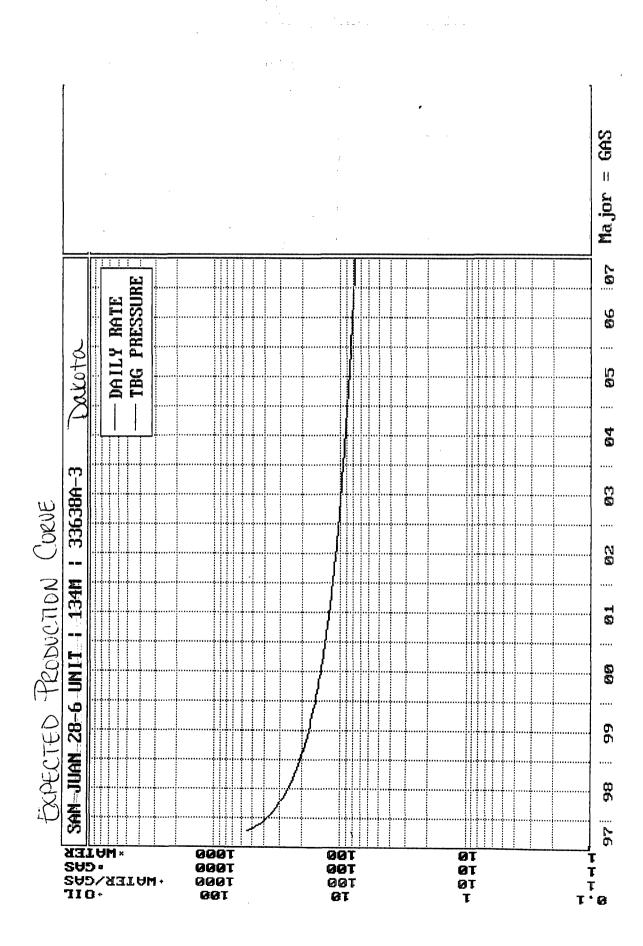
OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Form C-1 Revised February 21, 19 Instructions on ba Submit to Appropriate District Offi State Lease - 4 Copi Fee Lease - 3 Copi

AMENDED REPOR

• /	API Numbe	<u> </u>	MCLL	²Pool Coo		CREAGE DEDI	LGAT	³Pool Nam		 -	<u> </u>
¹Property	Code				³Property SAN JUAN 2						ll Number 134M
'OGRID	No.	*Operator Name BURLINGTON RESOURCES OIL					CO	MPANY			*Elevation 6691
					¹⁰ Surface	Location					
UL or lot no.	Section 5	Township 27	Range 6	Lat Idn	Feet from the 2550	North/South line North	1	t from the	East/West WES		County RIO ARRIBA
	Castina		Bottom	Hole L	ocation I					11	Country
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Fee	t from the	East/West	line	County
² Dedicated Acres	13 Joint C	r Infill 14	Consolidation	Code ¹⁵ On	der No.	L				, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
NO ALLOW	NABLE W	ILL BE	ASSIGNE	D TO TH	IS COMPLETI	ON UNTIL ALL EEN APPROVED	INTE	RESTS +	AVE BEE	N CON	SOLIDATEC
325.54 84 2550 .	NMSF	-07905	3	192.88 	2	1	5266.80	Signatur Printed Title Date 18 SURV I hereby corwas plotted or under my	PEYOR C	ERTI ell location of the state	FICATION contained herein nowledge and belie FICATION on shown on this, same is true and
NMNM-0	3583		· · · · · ·					Date of Signature and	Y 9, 1 Survey	997 C. E.	SWYADS "OUR



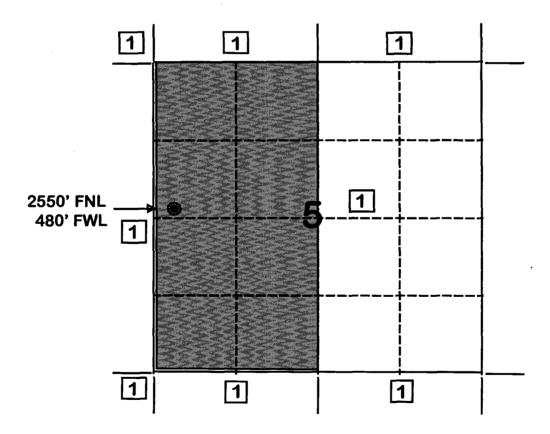


BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 28-6 Unit #134M OFFSET OPERATOR \ OWNER PLAT

Mesaverde / Dakota Formations Commingle Well

Township 27 North, Range 6 West



1) Burlington Resources Oil and Gas Company

SJ 28-6 Unit #134M

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

Mesaverde	Dakota	
<u>MV-Current</u>	<u>DK-Current</u>	
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) BOTTOMHOLE PRESSURE (PSIA) 826.5	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)	0.645 C 0.34 1.15 0 1.5 7613 60 198 0 887
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) D.23 0.23 0.84 84 84 85 0 0 1.25 1.2	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)	0.645 C 0.34 1.15 0 1.5 7613 60 198 0 2064

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Property ID: 10535
Property Name: SAN JUAN 28-6 UNIT | 3 | 48964A-1 San Juan 26-6 Unit
Table Name: K:\ARIES\RR98PDP\TEST.DBF

Table Name: K: \Ar	TES/KK90PDP/IESI.DBC	
DATECUM_GAS-	Psi	734M
11/13/53 07/07/55 08/24/56 10/30/57 11300 11/22/58 06/14/59 16500 06/14/60 18700 06/13/61 20400 05/29/62 22200 05/09/63 25000 05/26/64 27600 03/08/65 29800 03/22/67 04/01/68 05/25/70 40890 05/22/72 44535 11/03/82 08/20/91 09/29/91 06/20/95	938.0 90 886.0 90 849.0 90 855.0 90 848.0 90 882.0 90 841.0 90 808.0 90 784.0 90 793.0 90 787.0 90 688.0 91 747.0 92 748.0 93 748.0 94 748.0 95 748.0 96 748.0 97 748.0 98 696.0 98 696.0 98 696.0 98 696.0 98 696.0	Mesaverde Offset
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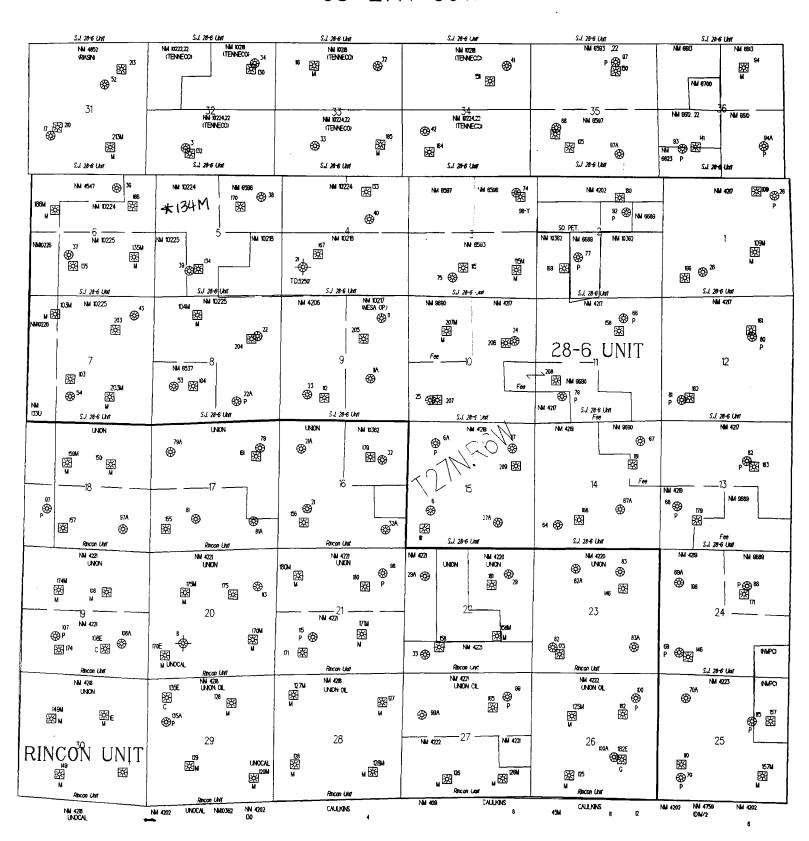
Property ID: 1848
Property Name: SAN JUAN 28-6 UNIT | 134 | 44074A-1

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San Juan 28-6 Unit

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08/21/73	43843	1709.0	7 Was Affect
07/31/74	143809	932.0	Dakota Offset
06/24/75	196237	632.0	•
07/29/76	249467	657.0	
08/01/77	293537	614.0	
05/08/79	358297	514.0	
09/29/81	425938	600.0	
09/22/83	469721	750.0	
11/07/85	508625	787.0	
07/08/88	555693	887.0	
09/29/90	604614	802.0	In
04/30/92	636073	887.0 - CL	irrent

San Juan 28–6 Unit #134 M Mesaverde / Dakota 05–27N–06W



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:

- 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.