DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 DISTRICT II
811 South First St., Artesia, NM 88210 DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410
DISTRICT IV
2040 S. Pacheco, Santa Fe, NM 87505

BURLINGTON RESOURCES OIL & GAS COMPANY

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 Revised August 1999 APPROVAL PROCESS:

APPLICATION FOR DOWNHOLE COMMINGLING

Address

PO BOX 4289, FARMINGTON, NM 87499

_ Administrative ___Hearing EXISTING WELLBORE

__X_ YES ___ NO

an Juan 28-6 Unit	105 × 35-	28N-06W	RIO ARRIBA
ase	Well No. Unit Ltr	r Sec - Twp - Rge Sp a	County cing Unit Lease Types: (check 1 or more)
GRID NO14538 Property	Code7462 API NO	30-039-07222 Fede	ralX , State , (and/or) Fee
The following facts are submitted in support of downhole commingling: 1. Pool Name and Pool Code	Upper Zone BLANCO MESAVFRDE – 72319	Intermediate Zone	Lower Zone BASIN DAKOTA - 71599
Top and Bottom of Pay Section (Perforations)	WILL BE SUPPLIED UPON COMPLETION	ORPHIVE	WILL BE SUPPLIED UPON COMPLETION
3. Type of production (Oil or Gas)	GAS	NO. 3 0 1533	GAS
4. Method of Production (Flowing or Artificial Lift)	FLOWING		FLOWING
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	a. ^(Current) 721 psi (see attachment)	a. (Current)	a. (Current) 956 psi (see attachment)
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	b. ^(Oriiginal) 1268 psi (see attachment)	b. ^(Oriiginal)	b. ^(Oriiginal) 3167 psi (see attachment)
6. Oil Gravity (EAPI) or Gas BTU Content	BTU 1223		BTU 1071
7. Producing or Shut-In?	SHUT-IN		SHUT-IN
Production Marginal? (yes or no) * If Shut-In, give date and oil/gas/ water rates of last production	Date: N/A Rates:	Date: N/A 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 date andoil/gas/water rates of recent test (within 60 days)	Date: N/A Rates:	Date: N/A 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: % WILL BE SUPPLIED UPON COMPLETION	Oil: Gas: % WILL BE SUPPLIED UPON COMPLETION
If allocation formula is based submit attachments with supp			
 Are all working, overriding, and If not, have all working, overri 	d royalty interests identical in a iding, and royalty interests bee	n notified by certified mail?	Yes X No
	ed, and will the allocation form	ula be reliableX_ Yes	NO (II NO, attach explanation
2. Are all produced fluids from all			
3. Will the value of production be			
 If this well is on, or communiti United States Bureau of Land 			
5. NMOCD Reference Cases for R	tule 303(D) Exceptions:	ORDER NO(S). R-10696 atta	ched
* Production curve fo * For zones with no p	r each zone for at least one year production history, estimated proceedings method or formula	s spacing unit and acreage dediar. (If not available, attach exproduction rates and supporting of interests for uncommon interesquired to support commingling.	data.
I hereby certify that the information		to the best of my knowledge an	d belief.
SIGNATURE Wayne F	litchin m	E PRODUCTION ENGINEER	DATE: 11/29/99
TYPE OR PRINT NAME B. WAYN	NE FLETCHER .	TELEPHONE NO. 505-326-9700	

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-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

API Number		² Pool Code		³ Pool Name					
30-03 9- 07	222	72319/71599 Blanco Mesaverde/ Basin Dakota			a				
* Property Code				³ Pr	operty N	ume			· Well Number
7462			5	3an Ju	an 2	8-6 Unit			105
'OGRID No.				'01	perator N	*ine			' Elevation
14538	Ві	irling	ton Re	sourc	es O	il & Gas	Company	6	336' GR
¹⁰ Surface Location									
UL or lot no. Section	Township	Range	Lot Idn	Feet from	the	North/South line	Feet from the	East/West line	County

N 35 28N 6W 1050' South 1680' West RA

11 Bottom Hole Location If Different From Surface

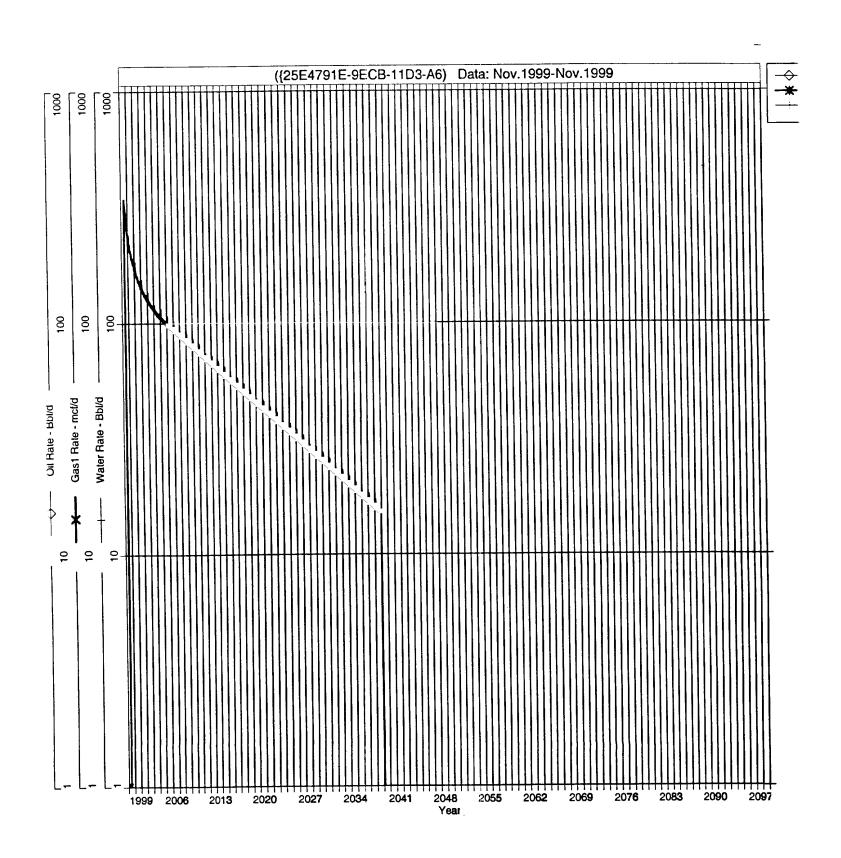
UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County

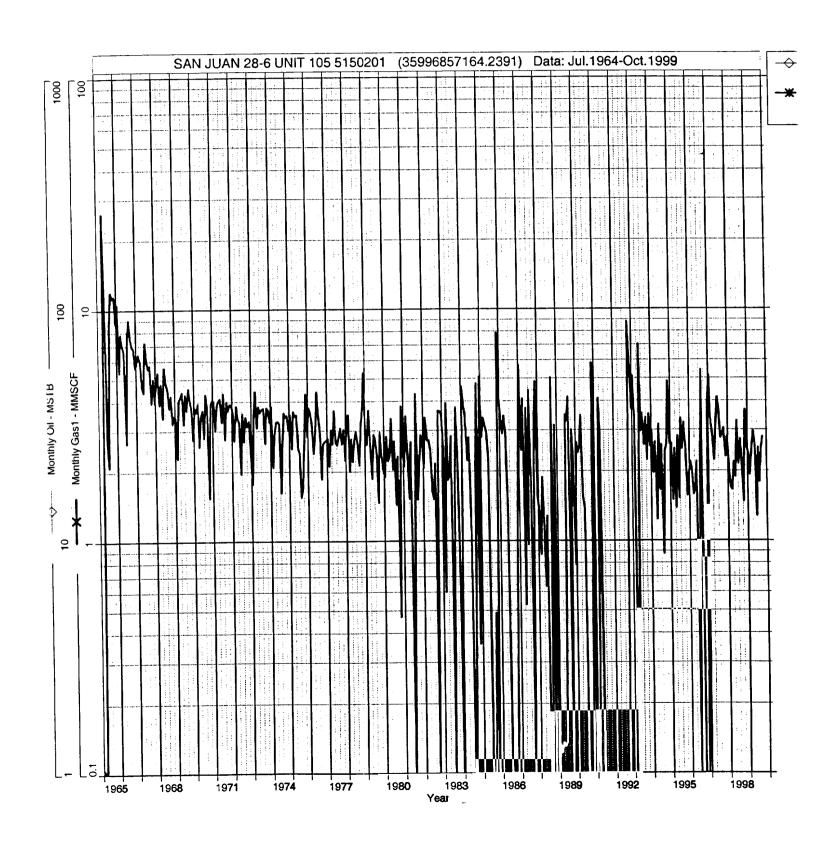
12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No.

DK-S/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

16		Original pla James C. Lee	t from se 6-9-64	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
			1 0 1000 1 0 0 1000 1 0 0 1000	Signature Peggy Cole Printed Name Regulatory Administrator Title Date
				18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey
1680	1450'		Section 1	Signature and Scal of Professional Surveyer: Certificate Number





San Juan 28-6 Unit #105

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

Mesaverde	Dakota		
MV-Current	DK-Current		
GAS GRAVITY COND. OR MISC. (C/M) %N2 0.87 %CO2 0.78 %H2S 0 DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 620 BOTTOMHOLE PRESSURE (PSIA) 720.7	GAS GRAVITY COND. OR MISC. (C/M) %N2 0.11 %CO2 1.23 %H2S 0 DIAMETER (IN) 2 DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 956.1		
MV-Original	DK-Original		
GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 0.78 %H2S 0 DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 1268.3	GAS GRAVITY COND. OR MISC. (C/M) %N2 %N2 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 3167.2		

Page No.: 3

Print Time: Fri Nov 19 15:11:12 1999

Property ID: 1940

Property Name: SAN JUAN 28-6 UNIT | 88 | 50188A Table Name: R:\RESERVES\GDPNOS\TEST.DBF

CUM GAS	
Mcf	Psi

	MCI	PSI
07/30/58	0	1077.0
10/13/58	0	1080.0
06/14/59	39000	977.0
06/14/60	145000	735.0
06/13/61	186000	748.0
05/29/62	25400 0	735.0
05/09/63	33500 0	709.0
05/20/64	414000	645.0
09/08/65	490000	620.0
04/12/66	518000	669.0
03/22/67	55700 0	65 6.0
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	99046 4	432.0
07/12/76	1106479	408.0
05/15/78	1169837	492.0 517.0
04/18/80	1241758 138205 4	595.0
04/07/86	1461979	612.0
09/18/89	1481817	632.0
09/04/91	1485207	620.0
10/21/91	1405207	020.0

San Juan 28-6 Unit #105

Mesaverde Offset

Page No.: 1

Print Time: Wed Nov 24 09:15:12 1999

Property ID: 7

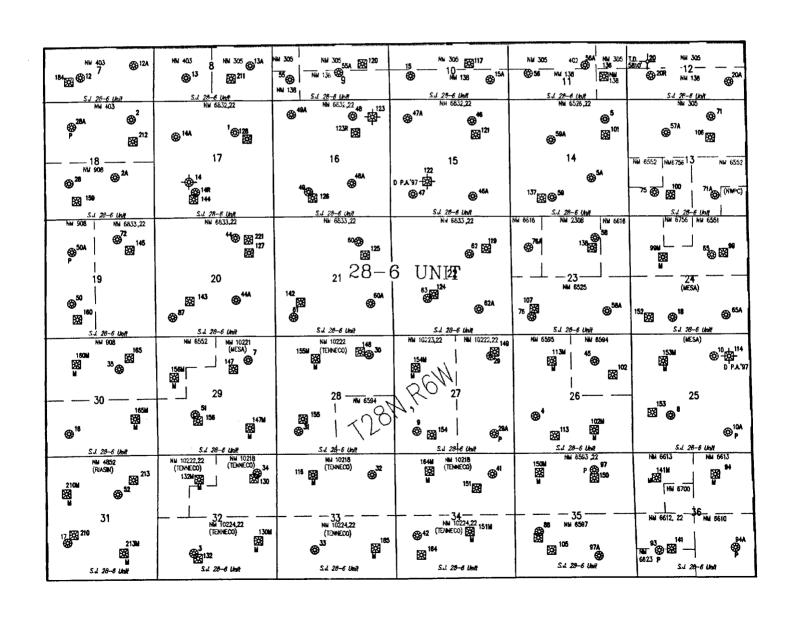
Property Name: SAN JUAN 28-6 UNIT | 105 | 51502A Table Name: C:\CMNG\TEST.DBF

CUM GAS	
 Mcf	:::TDG::::
 MCT	PSI

07/29/64	0	2661.0
10/18/65	74000	1424.0
10/05/66	15800 0	1047.0
05/25/67	20500 0	909.0
05/27/68	26400 0	798.0
08/18/69	3232 42	718.0
07/28/70	362497	682.0
06/22/71	402366	633.0
06/07/72	443619	657.0
09/04/75	5639 47	740.0
08/01/77	632460	720.0
05/08/79	6928 13	707.0
10/13/81	7580 49	790.0
09/19/83	81216 6	789.0
05/20/85	86015 5	717.0
10/08/88	93609 2	813.0

San Juan 28-6 Unit #105

Dakota Offset



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.