	7/98	SUSPENSE 2/16/98	Engineer D		TYPE DH-C					
	1.		ABOVE THIS LINE FOR DIVISION USE ONI	Y						
	NEW MEXICO OIL CONSERVATION DIVISION									
	- Engineering Bureau -									
	·····	ADMINISTRAT	IVE APPLICATIO	N COVERSHEE	<b>T</b>					
THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS										
Applica	Application Acronyms: [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]									
[1]	TVPF OF	APPLICATION - Ch	eck Those Which Appl	v for [A] a E E E						
[1]	[A]		Unit - Directional Dril	ling	2 7 1998					
	Chec [B]	ck One Only for [B] and Commingling - Sto DHC CT	orage - Measurement		ATION DIVISION					
	[C]	Injection - Dispose	I - Pressure Increase - I X ISWD II							
[2]	NOTIFICA [A]		TO: - Check Those Will ty or Overriding Royal		s Not A <b>pply</b>					
	<b>[B]</b>	Offset Operator	s, Leaseholders or Surf	ace Owner						
	[C]	Application is (	One Which Requires Pu	blished Legal Notice						
	[D]		I/or Concurrent Approv Management - Commissioner of Pul							
	[E]	G For all of the at	ove, Proof of Notificat	ion or Publication is A	ttached, and/or,					
	<b>[F]</b>	U Waivers are Att	ached							

## [3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

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.

Stalfull Peggy Bradfield Signature Print or Type Name

Regulatory/Compliance Administrator

1/26/98

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

\_14538\_

# 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** 

**APPLICATION FOR DOWNHOLE COMMINGLING** 

•				
	_	YES	x_	NO

<b>Burlington Resources Oil &amp; Ga</b>	is Company	PO Box 4289, Farmington, NM 87499		
Operator		Address		
San Juan 28-6 Unit	161M	l 12-27N-06W	Rio Arriba	
Lease	Well No.	Unit Ltr Sec - Twp - Rge	County	

\_\_\_7462\_ API NO. \_\_30-039-25768\_\_

OGRID NO.

\_ Property Code \_\_

Federal х

, State

Spacing Unit Lease Types: (check 1 or more) , (and/or) Fee

The following facts are submitted in support of downhole commingling.	Upper Zore	intermediate Zone	Lower Zons
1. Pool Name and Pool Code	Blanco Mesaverde - 72319		Basin 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. 690 psi (see attachment)	а.	a. 1069 psi (see attachment)
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. 1257 psi (see attachment)	Ь.	b. 3244 psi (see attachment)
6. Oil Gravity (□API) or Gas BTU Content	BTU 1215		BTU 1071
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

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. 9.

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

Vill 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. Λ 1

SIGNATURE Jean Workerton	TITLE: Production EngineerDATE: 1/26/98
TYPE OR PRINT NAME <u>Sean Woolverton</u>	TELEPHONE NO. ( 505 ) 326-9700

District 4 PO Box 1980, Hobbs, NM 58241-1980 District 41 PO Drawer OD, Artexis, NM 58211-0719 District 411 1009 Nio Brasss &d., Axes, NM 57410 District 4V

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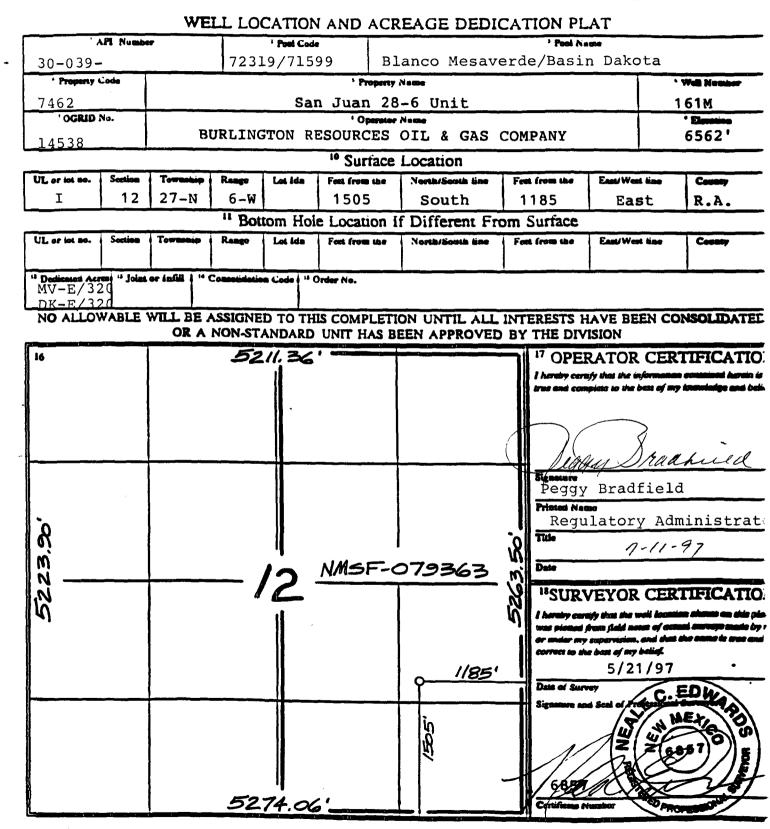
PO Box 2088. Santa Fe. NM 87504-2088

#### Siate of New Mexico Energy, Minerais & Natural Resources Departments

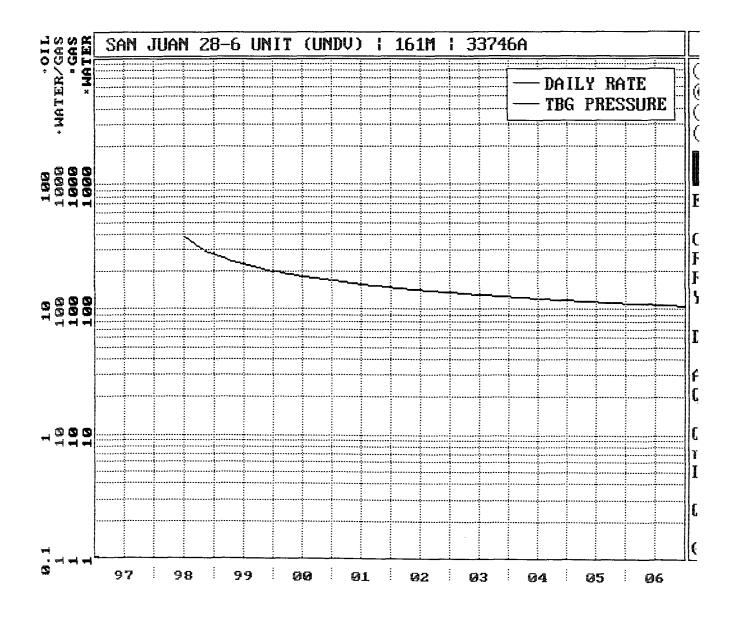
#### OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

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

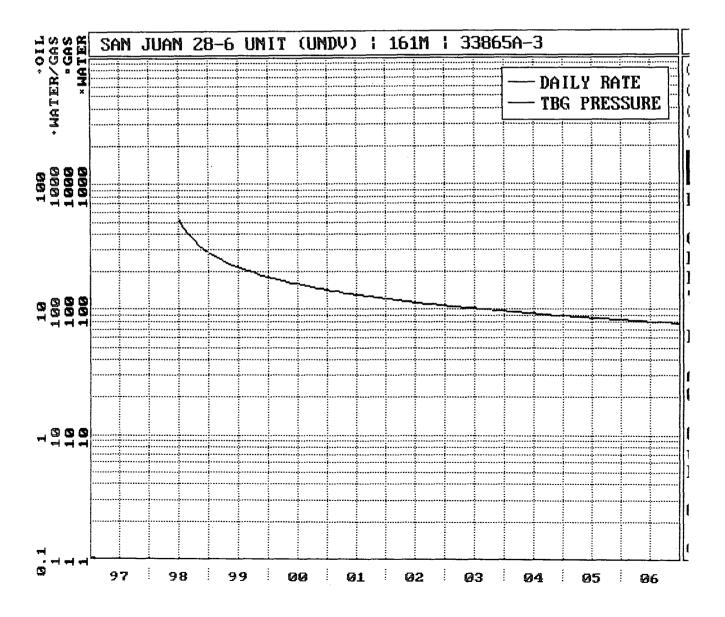
#### AMENDED REPOR



San Juan 28-6 Unit #161M Expected Production Curve Blanco Mesaverde



San Juan 28-6 Unit #161M Expected Production Curve Basin Dakota



### SJ 28-6 Unit #161M

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 GRAVITY0.712COND. OR MISC. (C/M)C%N20.31%CO20.73%H2S0DIAMETER (IN)2DEPTH (FT)5190SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)137FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)689.5	GAS GRAVITY0.627COND. OR MISC. (C/M)C%N20.2%CO21.32%H2S0DIAMETER (IN)1.5DEPTH (FT)7617SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)198FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)901BOTTOMHOLE PRESSURE (PSIA)1068.9		
<u>MV-Original</u>	<u>DK-Original</u>		
GAS GRAVITY0.712COND. OR MISC. (C/M)C%N20.31%CO20.73%H2S0DIAMETER (IN)2DEPTH (FT)5190SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)137FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)1080BOTTOMHOLE PRESSURE (PSIA)1257.3	GAS GRAVITY0.627COND. OR MISC. (C/M)C%N20.2%CO21.32%H2S0DIAMETER (IN)1.5DEPTH (FT)7617SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)198FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)2705BOTTOMHOLE PRESSURE (PSIA)3244.4		

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Page No.: 7 Print Time: Mon Jan 12 09:18:03 1998 Property ID: 1884 Property Name: SAN JUAN 28-6 UNIT | 182 | 44083A-1 Table Name: K:\ARIES\RR98PDP\TEST.DBF

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901.0-current 04/29/92

# BURLINGTON RESOURCES OIL AND GAS COMPANY

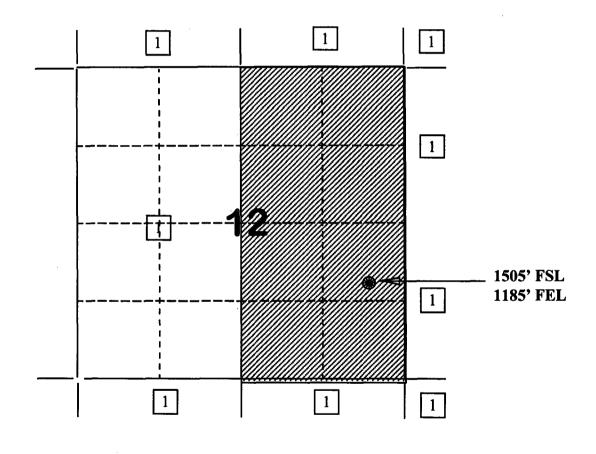
# San Juan 28-6 Unit #161M

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# **OFFSET OPERATOR/OWNER PLAT**

## Mesaverde / Dakota Formations Commingle Well

Township 27 North, Range 6 West



1) Burlington Resources

# San Juan 28-6 Unit #161M Blanco Mesaverde / Basin Dakota 27N-06W-12

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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:

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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: CASE NO. 11628 Order No. R-10696 Page -5-

- 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 weils 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.