

ABOVE THIS LINE FOR DIVISION USE ONLY

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

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] TYPE OF APPLICATION - Check Those Which Apply for [A] [1] Location - Spacing Unit - Directional Drilling [A] NSL NSP DD SD JAN 1 4 2001 Check One Only for [B] and [C] OR CONSERVATION DR Commingling - Storage - Measurement [B] DHC PLC PC OLS CTB OLM [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD IPI EOR PPR [2] **NOTIFICATION REQUIRED TO: -** Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners [A] [B] Offset Operators, Leaseholders or Surface Owner [C] Application is One Which Requires Published Legal Notice DI X 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] **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.

Note: Statement must be completed by an individual with supervisory capacity.

Regulatory/Compliance Administrator

Print or Type Name

Peggy Cole

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DISTRICT I obbs, NM 88240 **DISTRICT II** sia. NM 88210 DISTRICT III Rd. Aztec. NM 87410 1000 F o Bra DISTRICT IV nta Fe, NM 87505 40 S. Pa

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

Form C-107-A vised August 1999 Rev

APPROVAL PROCESS: Administrative Hearing

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

EXISTING WELLBORE _X_YES __NO

APPLICATION FOR DOWNHOLE COMMINGLING

BURLINGTON RESOURCES OIL & GAS COMPANY			PO BOX 4289, FARMINGTON, NM 87499				
Operator		Addre	SS				
SAN JUAN 27-5 UNIT	20 Well No.		A 35-27N-05W Unit Ltr Sec - Twp - Rae		RIO ARRIBA		
	Wei 140.	Offit Lu	Sec - Twp - nge	Sc	,	es: (check 1 or more)	
OGRID NO14538 Property	Code7454	_ API NO30)-039-06844			, (and/or) Fee	
The following facts are submitted in support of downhole commingling: 1. Pool Name and Pool Code	Upper Zone Tapacitos PICTURED 85920		Interme	diate C		Lower Zone SAVERDE – 72319	
2. Top and Bottom of Pay Section (Perforations)	3448'-3468'				5418'-5738'	······	
3. Type of production (Oil or Gas)	GAS				GAS	<u>in in an da yan di di ana di 1977 na a</u> ni	
4. Method of Production (Flowing or Artificial Lift)	FLOWING			FLOWING			
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	a. ^(Current) 395 psi (see attachme	nt)			a. ^(Current) 585 psi (see a	ttachment)	
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	b. ^(Oriiginal) 1053 psi (see attachm	ent)			b. ^(Oriiginal) 1304 psi (see	attachment)	
6. Oil Gravity (EAPI) or Gas BTU Content	BTU 1212				BTU 1239		

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.

Date: N/A

Date: N/A

WILL BE SUPPLIED UPON COMPLETION

Rates

Oil:

Rates

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? _Yes _X_No _Yes _X_No

11. Will cross-flow occur? _X_Yes No If yes, are fluids compatible, will the formations not be damaged, will any crossflowed production be recovered, and will the allocation formula be reliable. _X_Yes ___ No (If No, attach explanation)

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)

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

ORDER NO(S). R-10694 15. NMOCD Reference Cases for Rule 303(D) Exceptions:

7. Producing or Shut-In?

Production Marginal? (yes or no)

If Shut-In, give date and oil/gas/ vater rates of last production

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)

Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)

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 working, overriding, and royalty interests for uncommon interest cases.
* Any additional statements, data, or documents required to support commingling.

Producing

Date: N/A

Date: N/A

Gas

WILL BE SUPPLIED UPON COMPLETION

Rates

Oil

Rates

NO

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

TITLE **PRODUCTION ENGINEER** DATE: 1/12/00

TYPE OR PRINT NAME SCOTT DOBSON

TELEPHONE NO. 505-326-9700

Producing

YES

Rates

Date: N/A

Date: N/A

WILL BE SUPPLIED UPON COMPLETION

Rates

Oil:



San Juan 27-5 Unit #20 Expected Production Pictured Cliffs Formation

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San Juan 27-5 Unit #20 Expected Production Mesaverde Formation

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San Juan 27-5 Unit #20 Bottom Hole Pressures Flowing and Static BHP Cullender and Smith Method Version 1.0 3/13/94

Pictured Cliffs	Mesaverde			
<u>PC-Current</u>	<u>MV-Current</u>			
GAS GRAVITY0.69COND. OR MISC. (C/M)C%N20.52%CO20.19%H2S0DIAMETER (IN)1.66DEPTH (FT)3441SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)137FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)363BOTTOMHOLE PRESSURE (PSIA)395.2	GAS GRAVITY0.713COND. OR MISC. (C/M)C%N20.18%CO20.77%H2S0DIAMETER (IN)2.375DEPTH (FT)5627SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)198FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)509BOTTOMHOLE PRESSURE (PSIA)584.8			
PC-Original	<u>MV-Original</u>			
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Page No.: 1 Print Time: Thu Dec 30 13:36:11 1999 Property ID: 1425 Property Name: SAN JUAN 27-5 UNIT | 28 | 53358A Table Name: R:\RESERVES\GDPNOS\TEST.DBF

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San Juan 27-5 Unit #20

Pictured Cliffs Offset

Page No.: 2 Print Time: Thu Dec 30 13:36:12 1999 Property ID: 1426 Property Name: SAN JUAN 27-5 UNIT | 28 | 53358B Table Name: R:\RESERVES\GDPNOS\TEST.DBF

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04/12/63	163000	781.0	
05/07/64	178000	762.0	
05/10/65	193000	755.0	
04/19/66	225000	637.0	
05/16/67	255000	571.0	
05/02/68	274000	608.0	
08/28/70	310451	612.0	
11/09/70	312556	629.0	
04/08/71	318185	606.0	
08/09/72	336882	578.0	
12/06/83	485355	561.0	
10/20/86	513366	513.0	
09/08/89	538192	510.0	
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San Juan 27-5 Unit #20

Mesaverde Offset

San Juan 27-5 Unit #20 Pictured Cliffs / Mesaverde 27N – 5W – 35A

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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. 11626 ORDER NO. R-10694

APPLICATION OF BURLINGTON RESOURCES OIL & GAS COMPANY FOR THE ESTABLISHMENT OF A DOWNHOLE COMMINGLING "REFERENCE CASE" FOR ITS SAN JUAN 27-5 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:

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(1) Due public notice having been given as required by law. the Division has jurisdiction of this cause and the subject maner thereof.

(2) The applicant. Burlington Resources Oil & Gas Company (Burlington). pursuant to the provisions of Division Rule 303.E. seeks to establish a downhole comminging "Efference 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 Dakora. Mesaverde. Fruitland Coal and Pictured Cliffs gas production within existing or future drilled wells within the San Juan 27-5 Unit. San Juan County, New Mexizo.

(3) Division Rule No. 303.E., amended by Order No. R-10470-A, currently states:

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> "If sufficient data exists on a lease, pool, formation, geographic area, erc., 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 commingie (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 27-5 Unit which encompasses some 23.043 acres in Township 27 North. Range 5 West. NMPM. San Juan County, New Mexico.

(5) Within the San Juan 27-5 Unit, the applicant currently operates one intudired and one (101) Basin-Dakota Gas Pooi weils, one intudired and five (105) Blanco-Messverde Gas Pooi weils, eighty-seven (87) South Blanco-Pictured Cliffs and Tapacito-Pictured Cliffs Gas Pooi weils, and four (4) Basin-Fruitiand Coal Gas Pooi weils.

- (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 27-5 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 27-5 Unit:

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CASE NO. 11626 Order No. R-10694 Page -3-

- 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 27-5 Unit: and.
- d) establish a "reference case" or an administrative procedure for authorizing the downhole comminging of existing or future drilled wells within the San Juan 27-5 Unix without additional nonce 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 27-5 Unit:

- a) the structure and thickness of the Dakora and Pictured Cliffs formations are very consistent:
- b) the average recoverable Dakora and Pictured Cliffs gas reserves underlying an undeveloped drill block are approximately 583 MMCFG and 426 MMCFG. respectively;
- c) the average initial producing rate for a newly drilled or recompleted Dakora and Pictures Cliffs gas well is approximately 393 MCFGD and 63 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 27-5 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 27-5 Unit. the applicant presented engineering evidence and testimony which indicates that:

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CASE NO. 11626 Order No. R-10694 Page ---

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- a) the average shut-in bonomiole pressure within the Dakota and Pictured Cliffs formations at the time of initial development were approximately 3.141 psi and 1.118 psi, respectively; and.
- b) the average current shut-in bottominole pressure within the Dakota and Pictureti Cliffs formations are approximately 1.032 pst and 441 psi, respectively.

(10) There is sufficient pressure data available within the San Juan 27-5 Unit so as to except pressure criteria as proposed by the applicant.

(11) The applicant testified that various allocation methods will be unlized for downhole commingied wells within the San Juan 27-5 Unit depending on the circumstances. Some of the methods and circumstances are described as follows:

- the subtraction method will likely be utilized in those instances involving the Hasin-Fruitand 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 27-5 Unit the applicant presented evidence and testimony which indicates that:

- a) the interest ownership between two zones within a given weilbore in the San Juan 27-5 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 27-5 Unit every time a Form C-107-A is submined to the Division. There is a considerable number of such interest owners within the unit:

CASE NO. 11625 Order No. R-10694 Page -5-

- c) providing notice to each interest owner within the San Juan 27-5 Unit of subsequent downhole commungings is unnecessary and is an excessive burden on the applicant;
- d) the downhole comminging of weils within the San Juan 27-5 Unit Area will benefit working, royaity, and overriding royaity interest owners. In addition, the downhole comminging of wells within the San Juan 27-5 Unit should not violate the correlative rights of any interest owner:
- e) no interest owner appeared at the hearing in opposition to the enablishment of a "reference case" or administrative procedure for notice.

(14) An administrative procedure should be established within the San Juan 27-5 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 downnote comminging approvals within the San Juan 27-5 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 downhold commingling of Dakota. Mesavercie. Fruitiand Coal and Pictured Cliffs gas production within existing or future drilled wells within the San Juan 27-5 Unit. San Juan County New Mexico. is hereby approved. CASE NO. 11626 Order No. R-10694 Page -6-

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(2) Upon filing of Division Form No. C-107-A's for weils subsequently downhole communited within the San Juan 27-5 Unit Area, the applicant shall not be required to submit supporting data to justify the classification of the Figures Cliffs and Dakota formations as "marginal". supporting data to verify the Figures 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 submittat of additional supporting data.

(3) In order to obtain Division authorization to downhole commungle wells within the San Juan 27-5 Unit, the applicant shall file a Form C-107-A with the Santa Feand 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 nonice to all interest owners within the: San Juan 27-5 Unit of such proposed commingling.

(4) Jurisdiction of this cause is retained for the entry of such further orders 25: the Division may deem necessary.

DONE at Sama Fe. New Mexico. on the day and year hereinabove designated.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION WILLIAM I LOMAY Director