DATEN	3/31/99	SUSPENSE 4/20/99 ENGNEER	AC		THE DHC	
	ABOVE THIS LINE FOR DIVISION USE ONLY					
	7	EW MEXICO OIL CONSI - Engineering 2040 South Pacheco, Sa	Bureau -		2300	
	A	DMINISTRATIVE AP	PLICATI	DN COVERSH	EET	
THI	S COVERSHEET IS N	ANDATORY FOR ALL ADMINISTRATIVE WHICH REQUIRE PROCESSIN	APPLICATION FOR	EXCEPTIONS TO DIVISION	RULES AND REGULATIONS	
Appil	004- <b>29</b> ] [7]	[NSP-Non-Standard Proration [DD-Directional Drilling] ole Commingling] [CTB-Lea Commingling] [OLS - Off-L	[SD-Simuita ase Commingli ease Storage] [PMX-Pressur [IPI-Injectio	[OLM-Off-Lease M • Maintenance Expan	se Commingling] easurement] nsion] }	
[1]	TYPE OF AI [A]	PLICATION - Check Those Location - Spacing Unit - Dir NSL NSP DI	ectional Drillin		<b>B I 1999</b>	
	Check [B]	One Only for [B] or [C] Commingling - Storage - Me DHC CTB P			MORE FOR 201	
	[C]	Injection - Disposal - Pressur WFX PMX S		hanced Oil Recovery		
[2]	NOTIFICAT [A]	<b>ION REQUIRED TO:</b> - Cher <b>Working, Royalty or Over</b>		= =	Not A <b>ppiy</b>	
	[B]	Offset Operators, Leaseho	olders or Surfac	e Owner		
	[C]	Application is One Which	n Requires Publ	lished Legal Notice		
	[D]	Notification and/or Conci U.S. Bureau of Land Management	Irrent Approva	l by BLM or SLO lic Lands, State Land Office		
	[E]	G For all of the above, Proo	f of Notificatio	n or Publication is At	tached, and/or,	
	[F]	G Waivers are Attached				
[3]	INFORMA	TON / DATA SUBMITTED	IS COMPLET	<b>E</b> - Certification		

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules a Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrati approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, F ORRI) is common. <u>I understand that any omission of data</u> (including API numbers, pool codes, etc.), pertine information and any required notification is cause to have the application package returned with no action take

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

hadhul

Print or Type Name

#### **DISTRICT I**

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

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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**

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

Form C-107-A New 3-12-96 **APPROVAL PROCESS :** \_X\_ Administrative \_\_\_\_Hearing **EXISTING WELLBORE** \_x\_YES \_\_\_NO

### **APPLICATION FOR DOWNHOLE COMMINGLING**

<b>Burlington Resources Oil &amp; Ga</b>	s Company	PO Box 4289, Farmington, NM	87499
Operator		Address	
San Juan 27-5 Unit	163	18-27N-05W	Rio Arriba
Lease	Well No.	Unit Ltr Sec - Two - Roe	County

OGRID NO

Init Ltr. - Sec - Twp

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Cod	le 7454 API NO. 30-039-20	671 Federal x State	(and/or) Fee
The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
Contract of an and the second se	Blanco Mesaverde - 72319	nande fels fels fels felsen an der Brite Songen ander der Britek ander der Britek ander der Britek ander der Br Hannen ander Britek ander Britek ander der B	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. 501 psi (see attachment)	a.	a. 927 psi (see attachment)
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. 1048 psi (see attachment)	b.	b. 3168 psi (see attachment)
6. Oil Gravity (API) or Gas BTU Content	BTU 1116		BTU 1038
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: % 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?
   Yes \_x\_No

   If not, have all working, overriding, and royalty interests been notified by certified mail?
   Yes \_x\_No

   Have all offset operators been given written notice of the proposed downhole commingling?
   \_\_Yes \_x\_No
- Nill 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-10694\_\_\_ attached

**16. ATTACHMENTS** 

IENTS: \* 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 t	that\the i	nformation/a	bove is true and complete to the best of	my knowledge and belief.
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SIGNATURE:	. Х.	lach		- · · · · · · · · · · · · · · · · · · ·
SIGNATURE:	<u>Via</u>	MANS	TITLE: Production Engineer	<b>DATE:</b> 03-29-99

SIGNATURE:

TYPE OR PRINT NAME: Dan Voecks

(505) 326-9700 **TELEPHONE NO.:** 

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

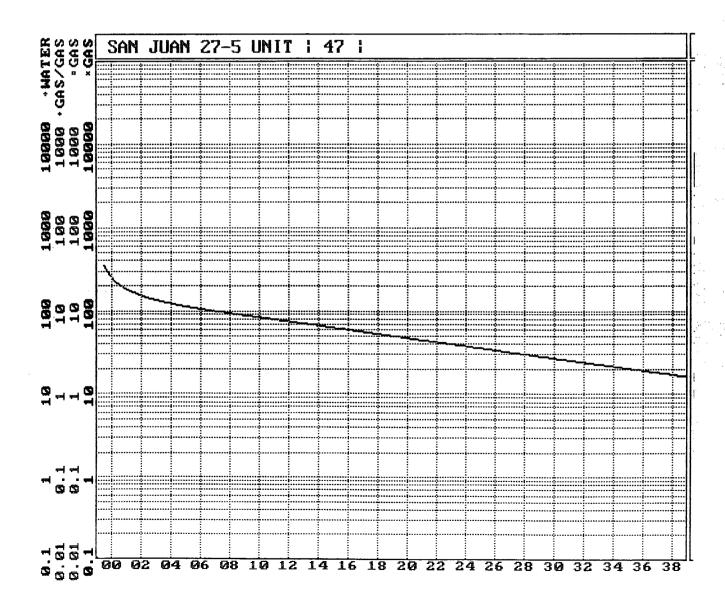
## OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Form C-10 Revised February 21, 199 Instructions on bac Submit to Appropriate District Offic State Lease - 4 Copie Fee Lease - 3 Copic

#### AMENDED REPOR

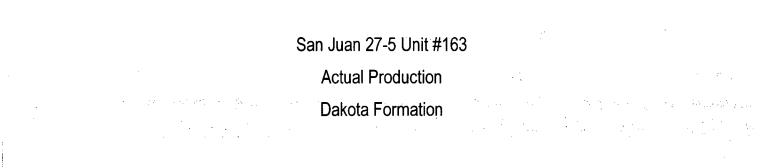
AFT Number       'Pool Code       'Pool Code       'Pool Name         30-039-20671       72319/71599       Blanco Mesaverde/Basin Dakora       'Well Number         'Poperty Name       'Poperty Name       'Well Number       'Well Number         7454       San Juan 27-5 Unit       163         'OCRID No.       Burlington Resources 0il & Gas Company       6447 'GR         14538       Burlington Resources 0il & Gas Company       6447 'GR         'Deventor Name         'Surface Location         'User lot so.         Section         Tu or lot so.       Section       Township       Range       Lot Ida       Feet from the       North/South line       Feet from the       East/West line       County         UL or lot so.       Section       Township       Range       Lot Ida       Feet from the       North/South line       Feet from the       East/West line       County         "Decipated Area       "Joint or Infill       "Generoidation Code       "Order No.       Porter No.         UV or V/321       08       "Generoidation Code       "Order No.       Porter No.       Porter No.         DK-W/321       08       "Generoidation Code       "Order No.       Porter No.       Por
* Property Value       * Well Number         7454       San Juan 27-5 Unit       163         'OCRID No.       Burlington Resources Oil & Gas Company       'Elevation         14538       Burlington Resources Oil & Gas Company       6447 'GR         'UL or lot no.       Section       Township       Range       Lot Ido       Feet from the       North/South line       Feet from the       East/West line       County         'UL or lot no.       Section       Township       Range       Lot Ido       Feet from the       North/South line       Feet from the       East/West line       County         'UL or lot no.       Section       Township       Range       Lot Ido       Feet from the       North/South line       Feet from the       East/West line       County         ''Decigated Acres       'loting to r Infill       'Consolidation Code       ''Order No.       Porter No.       County       County         ''Decigated Acres       'loting to r Infill       'Consolidation Code       ''Order No.       Porter No.       Porter No.       County         ''Decigated Acres       'loting to r Infill       'Consolidation Code       ''Order No.       Porter No.       County       County         ''Decigated Acres       'lotinto r Infill       County       Count
7454     San Juan 27-5 Unit     163       'Operator Name     'Elevation       14538     Burlington Resources Oil & Gas Company     6447'GR       "Surface Location       UL or tot no.       2 To vaniship     Range     Lot Ida     Feet from the     East/West line     County       L     18     27N     5W     Ida     Feet from the     North/South line     Feet from the     East/West line     County       UL or lot no.     Section     Township     Range     Lot Ida     Feet from the     North/South line     Feet from the     East/West line     County       UL or lot no.     Section     Township     Range     Lot Ida     Feet from the     North/South line     Feet from the     East/West line     County       WU or lot no.     Section     Township     Range     Lot Ida     Feet from the     North/South line     Feet from the     East/West line     County       "Dotterred Acres"     Optimer Acres"     Optimer Acres"     Optimer Acres"     Optimer Acres"     Section     County       "Dotter No.     DV     West Max     Township     County     Non-     County     County       MV = W/321     OB     Order No.     Order No.     County     County
'OGRID No. 14538       Burlington Resources Oil & Gas Company       'Eavaien 6447'GR         'Develop Company          Company      <
14538       Burlington Resources Oil & Gas Company       6447 'GR         '' Surface Location         UL or lot no.       Section       Township       County         1       Sourface Location         '' Bottom Hole Location If Different From Surface         UL or lot no.       Section       Township       Range       Lot Idn       Feet from the East/West line       County         UL or lot no.       Section       Township       Range       Lot Idn       Feet from the East/West line       County         UL or lot no.       Section       Township       Range       Lot Idn       Feet from the East/West line       County         UL or lot no.       Section       Township       Range       Lot Idn       Feet from the East/West line       County         UL or lot no.       Defend or longing       Consolidation Code       "Order No.         DK-W/321       OR       Original plat from<
UL or lot no.       Section       Township       Range       Lot Ida       Feet from the 1650       North/South line       Feet from the 1190       East/West line       County         II       Bottom Hole Location If Different From Surface       II Bottom Hole Location If Different From Surface       UL or lot no.       Section       Township       Range       Lot Ida       Feet from the       North/South line       Feet from the       East/West line       County         II Bottom Hole Location If Different From Surface       UL or lot no.       Section       Township       Range       Lot Ida       Feet from the       North/South line       Feet from the       East/West line       County         II Bottom Hole Location If Different From Surface       It ida       Feet from the       North/South line       Feet from the       East/West line       County         II Bottom Hole Location If Different From MV - W/321 08       It ida       Generation Code       "Order No.       It ida       It ida       County       It ida       County         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       It is and complete to the best of my knowledge and belle,         II G       Original plat from E. L. Poteet       6-27-73       It is and complete to the best of my knowledge and belle,       Signat
L       18       27N       5W       1650       South       1190       West       RA         "Bottom Hole Location If Different From Surface         UL or lot so.       Section       Township       Range       Lot Ida       Feet from the       North/South time       Feet from the       East/West time       County         "Dedigated, Acree       "Indict or Iafill       "Consolidation Code       "Order No.       Worder No.       East/West time       County         MV-W/321       0.8       "Onder No.       "Order No.       "Order No.       Interests Have BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION         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       If OPERATOR CERTIFICATION Increduced therein is use and complete to the best of my knowledge and belie.         Image: Distribution of the base of the base of my knowledge and belie.       Original plat from E. L. Poteet       6-27-73       Signature         Peggy Bradfield       Printed Name       Regulatory_Administrato       Title
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DK-W/321108         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         IIG       Original plat from E. L. Poteet 6-27-73         IIG       Original plat from E. L. Poteet 6-27-73         Signature Peggy Bradfield Printed Name Regulatory Administrato Title
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DK-W/321108         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         IIG       Original plat from E. L. Poteet 6-27-73         IIG       Original plat from E. L. Poteet 6-27-73         Signature Peggy Bradfield Printed Name Regulatory Administrato Title
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION           16         Original plat from         17 OPERATOR CERTIFICATION           0 Original plat from         1. Poteet         6-27-73           Signature         Peggy Bradfield           Printed Name         Regulatory_Administrato
16       Original plat from       17 OPERATOR CERTIFICATION         0 Original plat from       1. Poteet 6-27-73       1. Poteet or the best of my knowledge and belie,         Signature       Peggy Bradfield         Printed Name       Regulatory Administrato         Title       Title
Original plat from E. L. Poteet 6-27-73
Original plat from E. L. Poteet 6-27-73 Signature Peggy Bradfield Printed Name Regulatory Administrato Title
E. L. Poteet 6-27-73           F. L. Poteet         6-27-73           Signature         Peggy Bradfield           Printed Name         Regulatory Administrato           Title         Title
Peggy Bradfield Printed Name Regulatory Administrato Title
Printed Name <u>Regulatory Administrato</u> Tule
Regulatory Administrato Tule
Thte
Date
<sup>18</sup> SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat
was plotted from field notes of actual surveys made by m or under my supervision, and that the same is true and
1190' correct to the best of my belief.
Date of Survey
Signature and Scal of Professional Surveyer:
1650
Certificate Number

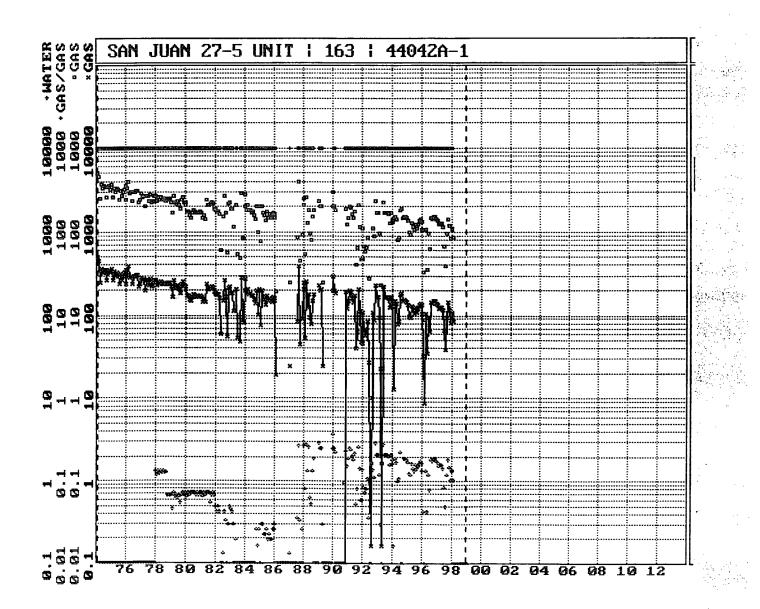
San Juan 27-5 Unit #163 Expected Production Mesaverde Formation



1991

5 . <del>. .</del> .





## San Juan 27-5 Unit #163

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

Mesaverde	Dakota		
MV-Current	<u>DK-Current</u>		
GAS GRAVITY0.643COND. OR MISC. (C/M)C%N20.27%CO20.42%H2S0DIAMETER (IN)2DEPTH (FT)5423SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)137FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)442BOTTOMHOLE PRESSURE (PSIA)501.2	GAS GRAVITY0.607COND. OR MISC. (C/M)C%N20.17%CO21.45%H2S0DIAMETER (IN)1.5DEPTH (FT)7632SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)198FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)788BOTTOMHOLE PRESSURE (PSIA)927.2		
MV-Original	DK-Original		
GAS GRAVITY0.643COND. OR MISC. (C/M)C%N20.27%CO20.42%H2S0DIAMETER (IN)2DEPTH (FT)5423SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)137FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)915BOTTOMHOLE PRESSURE (PSIA)1047.6	GAS GRAVITY0.607COND. OR MISC. (C/M)C%N20.17%CO21.45%H2S0DIAMETER (IN)1.5DEPTH (FT)7632SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)198FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)2660BOTTOMHOLE PRESSURE (PSIA)3168.3		

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Page No.: 1 Print Time: Tue Mar 16 07:30:02 1999 Property ID: 15 Property Name: SAN JUAN 27-5 UNIT | 47 | 53378B-1 Table Name: C:\ARIES\1MINGLE\TEST.DBF

--DATE-- ---CUM\_GAS-- M\_SIWHP

1 · ·

11/17/59	0	915.0
12/06/60	26000	613.0
06/13/61	35000	631.0
10/01/62	61000	619.0
04/19/63	71000	616.0
04/29/64	90000	582.0
05/10/65	107000	558.0
04/19/66	122000	566.0
09/13/67	144000	534.0
05/02/68	152000	540.0
10/07/70	191455	450.0
07/22/71	202221	423.0
06/06/72	217022	366.0
09/28/83	334824	445.0
09/08/89	385026	563.0
05/03/91	396090	454.0
06/18/91	397795	442.0

San Juan 27-5 Unit #163

Mesaverde Offset

Page No.: 4 Print Time: Tue Mar 16 06:51:53 1999 Property ID: 1385 Property Name: SAN JUAN 27-5 UNIT | 163 | 44042A-1 Table Name: Q:\PUBLIC\GENTITY\GDPNOS\TEST.DBF

730224 1117.0

843881 1242.0

962752 1104.0

1049922 1113.0

1096495 1204.0

1165564 1342.0

1248455 1026.0

2005168 788.0

--DATE-- ---CUM GAS-- M SIWHP Mcf Psi 10/25/73 0 2660.0 11/14/73 0 2661.0 01/25/74 1972.0 22166 05/02/74 1509.0 70095 05/05/75 188908 1260.0 07/05/77 412264 1014.0 08/21/79 702.0 593114 08/12/81

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09/28/83

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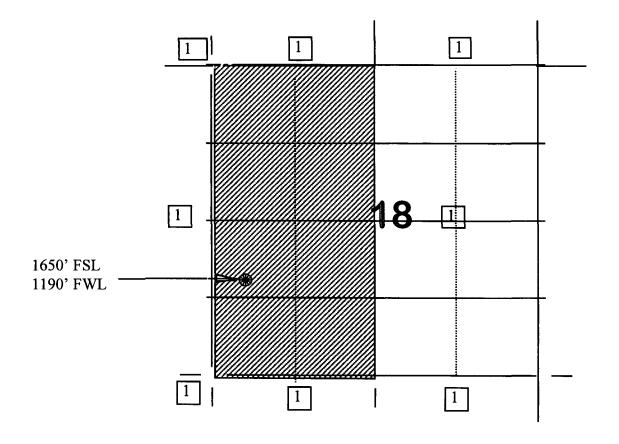
San Juan 27-5 Unit #163

Existing Dakota

# BURLINGTON RESOURCES OIL AND GAS COMPANY San Juan 27-5 Unit #163 OFFSET OPERATOR/OWNER PLAT Mesaverde/Dakota Formations

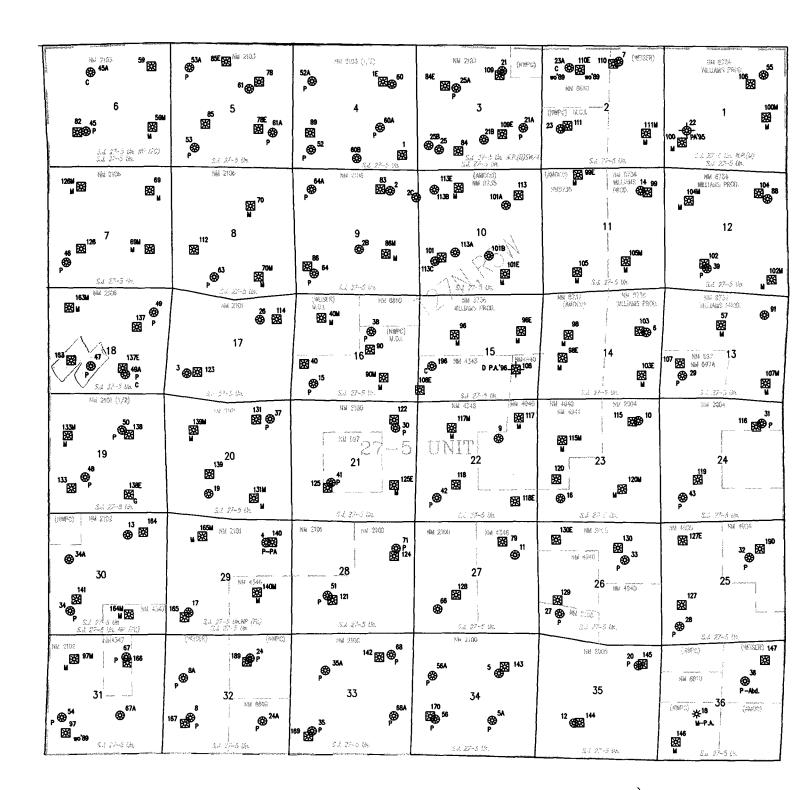
## **Commingled well**

Township 27 North, Range 5 West



1) Burlington Resources

San Juan 27-5 Unit #163 Blanco Mesaverde / Basin Dakota 27N - 5W - 18



## 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:

÷.

(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 27-5 Unit. San Juan County, New Mexico.

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

CASE NO. 11626 Order No. R-10694 Page -2-

> "If sufficient data exists on a lease, pool, formation, geographic area, exc., 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 "telerence 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 "telerence 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 fundred and one (101) Basin-Dakota Gas Pool wells. one hundred and five (105) Blanco-Mesaverde Gas Pool wells. cighty-seven (87) South Blanco-Pictured Cliffs and Tapacito-Pictured Cliffs Gas Pool wells. and four (4) Basin-Fruitland Coal Gas Pool wells.

- (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:

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

- c) establish a "tererence case" whereby the Division unitizes 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 commingling of existing or future drilled wells within the San Juan 27-5 Unit 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 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 583 MMCFG and 426 MMCFG. respectively:
- c) the average initial producing rate for a newly drilled or recompleted Dakota and Pictured 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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- a) the average shut-in bottomhole pressure within the Dakora and Pictured Cliffs formations at the tune of initial development were approximately 3.141 psi and 1.118 psi, respectively; and
- b) the average current shut-in bonomhole pressure within the Dakora and Pictured Cliffs formations are approximately 1.032 psi 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 comminged wells within the San Juan 27-5 Unit depending on the circumstances. Some of the methods and circumstances are described as follows:

- a) the subtraction method will likely be utilized in those instances involving the Basin-Fruitland Coal Gas Pool and in those instances where a zone with a well established decline rate is commingled with a newly completed zone:
- 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 wellbore 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 submitted to the Division. There is a considerable number of such interest owners within the unit:

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- c) providing notice to each interest owner within the San Juan 27-5 Unit of subsequent downnoie communglings is unnecessary and is an excessive burden on the applicant:
- d) the downhole commingling of wells within the San Juan 27-5 Unit Area will benefit working, royalty, and overriding royalty interest owners. In addition, the downhole commingling 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 establishment 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 commingied 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 comminging approvals within the San Juan 27-5 Unit, and will not violate correlative rights.

## IT IS THEREFORE ORDERED THAT:

(1) The application of Buriington Resources Oil & Gas Company to establish a "reference case" for (a) marginal economic criteria. (b) pressure criteria. (c) allocation (ormnias and (d) modification of notification rules on a unit-wide basis for downhold commingling of Dakota. Mesavertic. Fruitland 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-

(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 Piccurei Cliffs and Dakota formations as "marginal", supporting data to verify the Piccurei 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 submittal of additional supporting data.

(3) In order to obtain Division authorization to downhole community wells within the San Juan 27-5 Unit, the applicant shall file a Form C-107-A with the Santa Fe and 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 notice to all interest owners within the San Juan 27-5 Unit of such proposed commingting.

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

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

STATE OF NEW MEXICO OIL CONSERVATION DIVISION Director