**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

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

#### Form C-107-A New 3-12-96

#### APPROVAL PROCESS :

\_X\_ Administrative \_\_\_Hearing

#### Administrative \_\_\_nearing

## EXISTING WELLBORE \_\_\_YES \_X\_\_NO

# 2040 S. Pacheco Santa Fe, New Mexico 87505-6429 APPLICATION FOR DOWNHOLE COMMINGLING

the following facts are submitted a support of downhole commingling:  Pool Name and Pool Code  Top and Bottom of Pay Section (Perforations)  Type of production (Oil or Gas)  Method of Production (Flowing or Artificial Lift)  Bottomhole Pressure  Dil Zones - Artificial Lift: Estimated Current Estimated Current Gas & Oil - Flowing: Measured Current Istimated or Measured Original	111M I-02 -271 Well No. Unit L  e7455API NO 3  Unper Zone  BLANCO MESAVERDE - 72319  WILL BE SUPPLIED UPON COMPLETION  GAS  FLOWING  (Current) a. 742 psi (see attachment)  (Original) b. 1340 psi (see attachment)	tr Sec - Twp - Rge Spacing (	RIO ARRIBA County Unit Lease Types: (check 1 or more) , State X_, (and/or) Fee  Lower Zorre  BASIN DAKOTA - 71599  WILL BE SUPPLIED UPON COMPLETION  GAS  FLOWING  a. 838 psi (see attachment)  b. 3096 psi (see attachment)
the following facts are submitted as apport of downhole commingling:  Pool Name and Pool Code  Top and Bottom of Pay Section (Perforations)  Type of production (Oil or Gas)  Method of Production (Flowing or Artificial Lift)  Bottomhole Pressure  Dil Zones - Artificial Lift: Estimated Current Estimated Current Measured Current In Gas Zones: Stimated or Measured Original  Oil Gravity (°API) or	Upper Zone  BLANCO MESAVERDE - 72319  WILL BE SUPPLIED UPON COMPLETION  GAS  FLOWING  (Current) a. 742 psi (see attachment)	Intermediate   X	Lower Zone  BASIN DAKOTA - 71599  WILL BE SUPPLIED UPON COMPLETION  GAS  FLOWING  a. 838 psi (see attachment)
the following facts are submitted as apport of downhole commingling:  Pool Name and Pool Code  Top and Bottom of Pay Section (Perforations)  Type of production (Oil or Gas)  Method of Production (Flowing or Artificial Lift)  Bottomhole Pressure  Dil Zones - Artificial Lift: Estimated Current Estimated Current Measured Current In Gas Zones: Stimated or Measured Original  Oil Gravity (°API) or	Upper Zone  BLANCO MESAVERDE - 72319  WILL BE SUPPLIED UPON COMPLETION  GAS  FLOWING  (Current) a. 742 psi (see attachment)	Intermediate Zone  DECEIVE  FEB 2 0 1997  OIL CON. DIV.  DIST. 3	Lower Zone  BASIN DAKOTA - 71599  WILL BE SUPPLIED UPON COMPLETION  GAS  FLOWING  a. 838 psi (see attachment)
. Pool Name and Pool Code  . Top and Bottom of Pay Section (Perforations)  . Type of production (Oil or Gas)  . Method of Production (Flowing or Artificial Lift)  . Bottomhole Pressure Dil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current Stimated or Measured Original  . Oil Gravity (°API) or	BLANCO MESAVERDE - 72319  WILL BE SUPPLIED UPON COMPLETION  GAS  FLOWING  (Current) a. 742 psi (see attachment)	PECEIVED FEB 2 0 1997  OIL COM. DIV. DIST. 3	BASIN DAKOTA - 71599  WILL BE SUPPLIED UPON COMPLETION  GAS  FLOWING  a. 838 psi (see attachment)
Pool Code  Top and Bottom of Pay Section (Perforations)  Type of production (Oil or Gas)  Method of Production (Flowing or Artificial Lift)  Bottomhole Pressure Dil Zones - Artificial Lift: Estimated Current Measured Current III Gas Zones: Stimated or Measured Original  Oil Gravity (°API) or	WILL BE SUPPLIED UPON COMPLETION  GAS  FLOWING  (Current) a. 742 psi (see attachment)	a. DIST. 3	WILL BE SUPPLIED UPON COMPLETION  GAS  FLOWING  a. 838 psi (see attachment)
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Dil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current III Gas Zones: estimated or Measured Original  Dil Gravity (°API) or	a.`742 psi (see attachment)  (Original)	a.	
Gas & Oil - Flowing: Measured Current III Gas Zones: Stimated or Measured Original  Oil Gravity (°API) or	(Original) b. 1340 psi (see attachment)	b.	b. 3096 psi (see attachment)
. Oil Gravity (°API) or			
	BTU 1163		BTU 1099
. Producing or Shut-In?	SHUT - IN		SHUT - IN
Production Marginal? (yes or no)	NO		YES
of last production	Date: N/A Rates:	Date: Rates:	Date: N/A Rates:
ote: For new zones with no production history, pplicant shall be required to attach production stimates and supporting data			
ill	Date: N/A Rates:	Date: Rates:	Date: N/A Rates:
Formula -% for each zone	Oil: Gas: %	Oit: Gas: %	Oil: Gas: %
bil/gas/water water of recent test within 60 days)  B. 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 C
Are all working, overriding, and ro     If not, have all working, overriding     Have all offset operators been giv	oyalty interests identical in all	commingled zones?	Yes _XNo Yes _XNo _X_YesNo
. Will cross-flow occur? _X Yes production be recovered, and wil	il the allocation formula be rel		be damaged, will any cross-flo ttach explanation)
. Are all produced fluids from all co . Will the value of production be dec			

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.

SIGNATURE:

TITLE Production Engineer DATE 2-14-97

TYPE OR PRINT NAME James A. Smith TELEPHONE NO. (505) 326-9700

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

District 6 PO Box 1980, Hubbs, NM 88241-1980 District 41 PO Drawer DD. Artesia. NM \$8211-0719

District III 1000 Rio Bruzos Rd., Astec. NM 27410 District (V

## State of New Mexico Energy, Minerals & Natural Resources aleparament

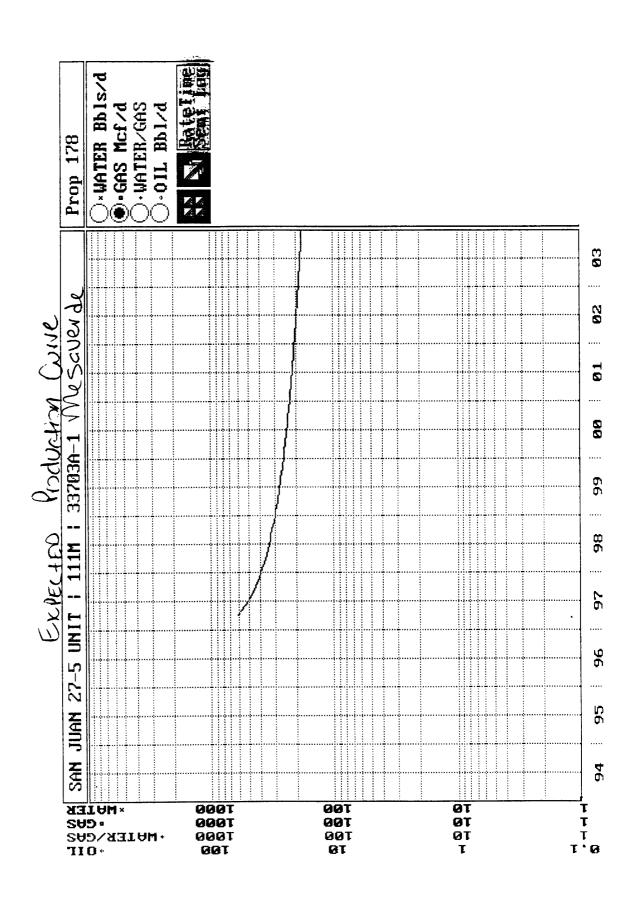
OIL CONSERVATION DIVISION PO Box 2088
Santa Fe, NM 87504-2088

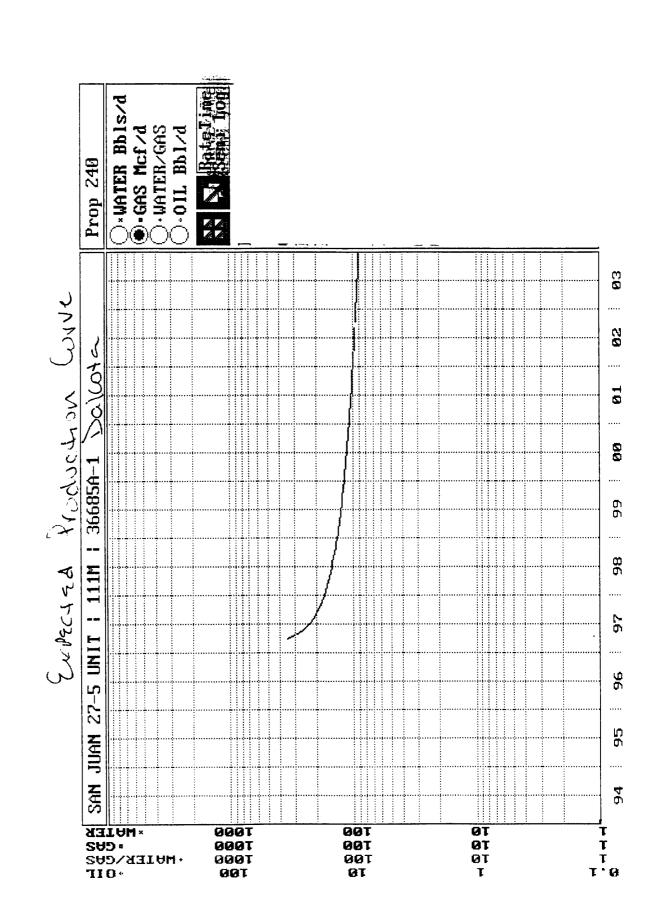
Form C-102 Reviseu February 21, 1994

Instructions on back

Submit to Appropriate District Office State Lease - - Copies Fee Lease - 3 Copies

PO Box 2088, Sas	sta Fe. NM									NDED REPORT
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		-			10 Surface	Location				
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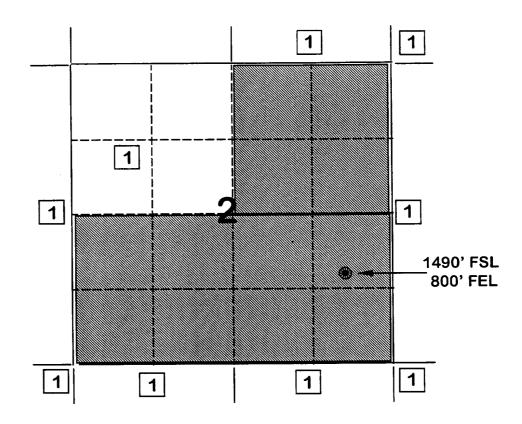


#### BURLINGTON RESOURCES OIL AND GAS COMPANY

## San Juan 27-5 Unit #111M OFFSET OPERATOR \ OWNER PLAT

### Mesaverde (E/2)/Dakota (S/2) Formations Commingle Well

Township 27 North, Range 5 West



1) Burlington Resources Oil and Gas Company

VERSION 1.0 3/13/94

GAS GRAVITY	0.672
COND. OR MISC. (C/M)	С
%N2	0.28
%CO2	0.32
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	6663
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1120
BOTTOMHOLE PRESSURE (PSIA)	1339.9

SAN JUAN 27-5 UNIT #30 MESAVERDE - ORIGINAL

VERSION 1.0 3/13/94

GAS GRAVITY	0.672
COND. OR MISC. (C/M)	C
%N2	0.28
%CO2	0.32
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	6663
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	629
BOTTOMHOLE PRESSURE (PSIA)	742.2

SAN JUAN 27-5 UNIT #30 MESAVERDE - CURRENT

Page No.: 1

Print Time: Mon Jan 27 12:56:07 1997

Property ID: 3841

Property Name: SAN JUAN 27-5 UNIT | 30 | 53360B-1 57 37-5 #11 M
Table Name: K:\ARIES\RR97PDP\TEST.DBF

DATE	CUM_GAS Mcf			
04/07/58	0	1120.0	_ ORIGINAL_	
05/27/58	0	1119.0		
12/06/58	22000	802.0		
06/14/59	36000	746.0		
09/22/60	70000	642.0		
06/13/61	86000	628.0		
12/28/62	110000	600.0		
04/19/63	114000	609.0		
09/28/64	134000	614.0		
05/10/65	141000	609.0		
04/19/66	155000	567.0		
09/13/67	167000	549.0		
05/02/68	173000	571.0		
10/07/70	205070	499.0		
07/22/71	215076	447.0		
06/06/72	226148	448.0		
12/01/81	329528	353.0		
01/04/87	365606	405.0		
08/22/89	394408	512.0	_	
07/30/91	406566	629.0	CUERENT	
			-	

VERSION 1.0 3/13/94

GAS GRAVITY	0.643
COND. OR MISC. (C/M)	C
%N2	0.17
%CO2	1.25
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	7774
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	2552
BOTTOMHOLE PRESSURE (PSIA)	3095.8

SAN JUAN 27-5 UNIT #122 DAKOTA - ORIGINAL

VERSION 1.0 3/13/94

GAS GRAVITY	0.643
COND, OR MISC. (C/M)	С
%N2	0.17
%CO2	1.25
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	7774
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	703
BOTTOMHOLE PRESSURE (PSIA)	837.6

SAN JUAN 27-5 UNIT #122 DAKOTA - CURRENT

Page No.: 1

Print Time: Mon Jan 27 13:06:05 1997

Property ID: 1687

Property Name: SAN JUAN 27-5 UNIT | 122 | 52429A-1 ST 37-6 Table Name: K:\ARIES\RR97PDP\TEST.DBF

DATE	CUM_GAS Mcf		
07/23/71	0	2552.0	Of aNAL
11/27/71	46373	1589.0	
06/06/72	128000	1204.0	
09/18/72	153953	1291.0	
07/19/73	229539	1002.0	
05/22/75	387289	909.0	
07/06/77	537154	732.0	
05/01/79	650062	803.0	
05/04/81	766971	715.0	
09/13/83	865690	812.0	
05/20/85	930505	833.0	
07/12/88	1045529	1220.0	
05/29/90	1133561	831.0	
05/28/92	1216332	703.0	CURPENT
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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:

- (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:

- 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 commingling of existing or future drilled wells within the San Juan 27-5 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 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:

- c) providing notice to each interest owner within the San Juan 27-5 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 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 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 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 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, is hereby approved.