DISTRICT I	State of New Mexico
PO Box 1980, Hobbs, NM 88241-1980	
	Energy, Minerals and Natural Resource
DISTRICT II	OIL CONSERVATION DIV
811 South First St., Artesia, NM 88210-2835	
	2040 S. Pacheco
DISTRICT III	Santa Fe, New Mexico 8750
1000 Rio Brazos Rd., Axtec, NM 87410-1693	
	APPICATION FOR DOWNHOLE O

Burlington Resources Oil & Gas Company

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

al Resources Department

TION DIVISION

APPROVAL PROCESS:

Administrative _

ico 87505-6429

PO Box 4289, Farmington, NM 87499

EXISTING WELLBORE ___ YES __X_NO

HOLE COMMINGLING

SAN JUAN 28-6 UNIT	132M (C 32-28N-06W	Rio Arriba
Lease	Well No.	Unit Ltr Sec - Twp - Rge Spacing Unit Lease Types: (check 1 or more)	County
OGRID NO14538 Property Co	de7462 API NO		State, (and/or) Fee
The following facts are submitted in support of downhols commingling:	Upper Zone Zone Blanco Mesaverde - 72319	ego Intermedialose Ba- Zote Mass	Basin Dakota - 71599
Pool Code		- DEPENVED	
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	OCI 2 1 1997	gas
Method of Production (Flowing or Artificial Lift)	flowing	OIL CON. DIV.	flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	(Current) a. 610 psi (see attachment		a. 1101 psi (see attachment)
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. 1291 psi (see attachmen	b.	b. 3112psi (see attachment)
6. Oil Gravity (^o API) or Gas BTU Content	BTU 1148		BTU 1080
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:	Oate:	Date: n/a Rates:
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data	Nation.		Nation.
* 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:
Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: Gas: %	Oil: Gae: %	Oil: Gas: % will be supplied upon completion
 10. Are all working, overriding, and if not, have all working, overrid Have all offset operators been 11. Will cross-flow occur?xY production be recovered, and 12. Are all produced fluids from all 13. Will the value of production be all 14. If this well is on, or community Bureau of Land Management ha 15. NMOCD Reference Cases for Road ATTACHMENTS. 	I royalty interests identical ling, and royalty interests be given written notice of the pees No If yes, are fluids will the allocation formula becommingled zones compatidecreased by commingling to zed with, state or federal is been notified in writing of ule 303(D) Exceptions: OR	een notified by certified mail? proposed downhole commingling? compatible, will the formations not I be reliablexYesNo (If N	YesxNoYesxNoYesxNo _x_Yes No De damaged, will any cross-flowed o, attach explanation) No explanation) Public Lands or the United States of the United States
* Any additional stater	nents, data, or documents r	Ity interests for uncommon interest required to support commingling. I complete to the best of my known	cases.
SIGNATURE Seam la Ca	tentonTITLE_I	Production EngineerDA	TE <u>10/17/97</u>
TYPE OR PRINT NAME <u>Sea</u>	n C. Woolverton TE	ELEPHONE NO. <u>(505)</u> <u>326-9</u>	700

District 4 PO Box 1989. Hobbs. NM \$8241-1989

PO Drawer OD. Artems, NM \$8211-0719

NMSF-

3

5280.00

073049B

NMSF-079051

4

State of New Mexico

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

Form (Revised February 21. Instructions on Submit to Appropriate District C

Peggy Bradfield

correct to the best of my belief.

Regulatory Administrate

6/10/97

Printer Name

Date of Survey

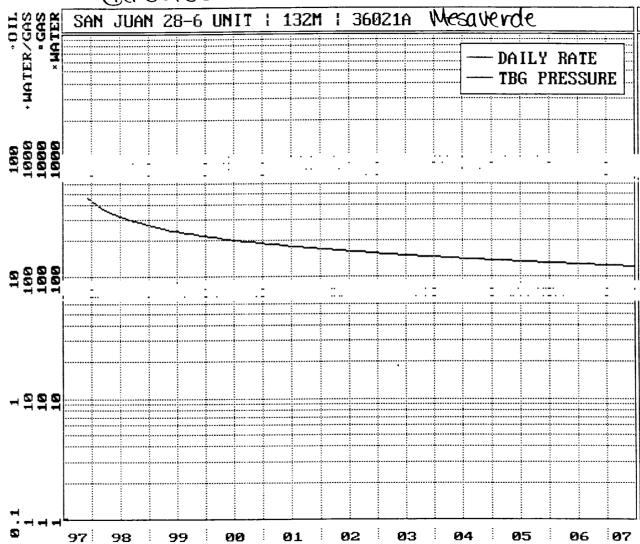
Tile

State Luses - 4 C

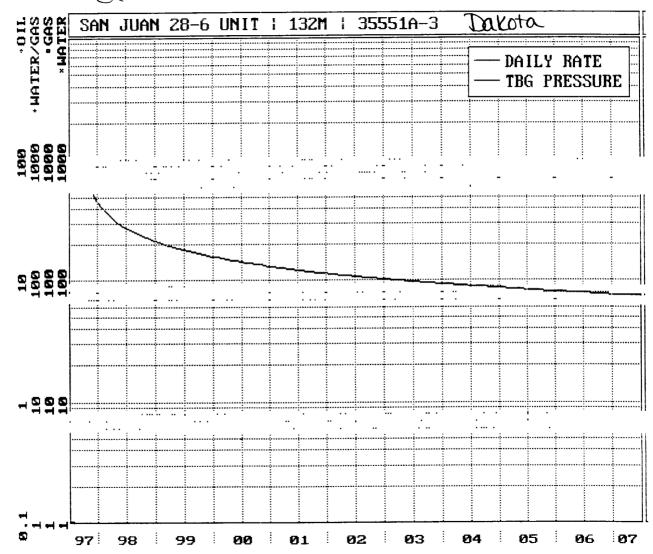
1000 Rio Brosse Rd., Azies, NM 87418 For Laure - 3 C District IV PO Box 2088, Santa Fe. NM 87504-2088 AMENDED REF WELL LOCATION AND ACREAGE DEDICATION PLAT APL Number Pool Code 72319/71599 Blanco Mesaverde/Basin Dakota 30-039-Property Code Property Name · Well Manne 7462 San Juan 28-6 Unit 132M OGRID No. Operator Name 14538 BURLINGTON RESOURCES OIL & GAS COMPANY 6223' 16 Surface Location UL or lot no. Let Ide Feet from the North/South time Feet from the East/West time Conner 32 1850 C 28-N 1115 North West 6-W R.A. 11 Bottom Hole Location If Different From Surface UL or set me. Range Townse Lot Ida Feet from the Fest from the North/South time East West time 12 Dedicates Acres 12 Joint or Infill | 14 Consessation Code | 15 Order No. BX=W 323123 NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDAT OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 17 OPERATOR CERTIFICAT. *528*0.00' NMSF-079050C MA hull

2

EXPECTED PRODUCTION CHEVE



EXPECTED PRODUCTION CLIEVE

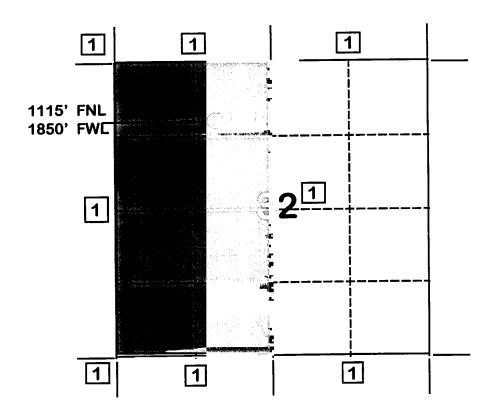


BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 28-6 Unit #132M OFFSET OPERATOR \ OWNER PLAT

Mesaverde / Dakota Formations Commingle Well

Township 28 North, Range 6 West



1) Burlington Resources Oil and Gas Company

San Juan 28-6 Unit #132M

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 GRAVITY 0.667 COND. OR MISC. (C/M) C %N2 0.23 %CO2 0.72 %H2S 0 DIAMETER (IN) 2 DEPTH (FT) 5544 SURFACE TEMPERATURE (DEG F) 60 BOTTOMHOLE TEMPERATURE (DEG F) 137 FLOWRATE (MCFPD) 0 SURFACE PRESSURE (PSIA) 532 BOTTOMHOLE PRESSURE (PSIA) 609.5	GAS GRAVITY COND. OR MISC. (C/M) %N2 0.77 %CO2 1.34 %H2S 0 DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 1100.5					
MV-Original	<u>DK-Original</u>					
GAS GRAVITY COND. OR MISC. (C/M) %N2 0.23 %CO2 0.72 %H2S 0 DIAMETER (IN) 2 DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 1291.1	GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 1.34 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 3111.7					

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Page No.: 5
   Print Time: Fri Oct 03 15:46:24 1997
  Property ID: 1845
Property Name: SAN JUAN 28-6 UNIT | 130 |
                                         44095A-1
  Table Name: K:\ARIES\RR98PDP\TEST.DBF
                                            San Juan 28-6 Unit
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Page No.: 3 Print Time: Fri Oct 03 15:46:23 1997 Property ID: 4034 Property Name: SAN JUAN 28-6 UNIT | 51 | 49951A-1 Table Name: K:\ARIES\RR98PDP\TEST.DBF --DATE-- ---CUM GAS-- M SIWHP Mcf.....Psi... 1112.0-original 03/11/57 0 03/29/57 1111.0 0 11/22/58 985.0 63000 08/22/59 168000 582.0 03/29/60 204000 773.0 12/24/61 359000 700.0 04/23/62 716.0 374000 02/22/63 407000 758.0 02/24/64 793.0 446000 02/25/65 515000 764.0 01/04/66 570000 713.0 07/10/67 674000 672.0 07/12/68 746000 663.0

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532.0- Current

06/05/69

04/21/70

03/23/71

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04/16/74

06/08/76

05/03/78

06/20/80

05/27/82

07/27/84

05/02/87

03/29/93

San Juan 28-6 Unit #132 M Mesaverde Offset

San Juan 28-6 Unit #132M Mesaverde / Dakota 28N-06W-32C

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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:

- 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 weils 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;
 - 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 Buriington 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.