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

APPLICATION FOR DOWNHOLE COMMINGLING

2040 S. Pacheco Santa Fe, New Mexico 87505-6429 Form C-107-A New 3-12-96

APPROVAL PROCESS:

X Administrative ___Hearing

EXISTING WELLBORE

__YES __x_NO

erator In Juan 29-7 Unit	75A	J 23-29-7	Rio Arriba
80	Well No.	Unit Ltr Sec - Twp - Rge	County
GRID NO14538 Property Co	ode7465 API NO30	. spacii 039-25616Federalx , State	ng Unit Lease Types: (check 1 or more), (and/or) F88X
he following facts are submitted reupport of downhole ommingling:	Upper Zane	Intermediate Zone	Lower Zone
. Pool Name and Pool Code	Blanco Mesaverde - 72319		Basin Dakota - 71599
. Top and Bottom of Pay Section (Perforations)	will be supplied upon completion	DECEIVED	will be supplied upon completion
. Type of production (Oil or Gas)	gas	FEB 2 1 1997	gas
. Method of Production (Flowing or Artificial Lift)	flowing	OIL COM. DIV.	flowing
. Bottomhole Pressure Oil Zones - Artificial Lift:	(Current) a. 523 psi (see attachmen	n a. Dudio 3	a. 953 psi (see attachment)
Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones:	(Original) b. 1280 psi (see attachme	nt) b.	b. 1479 psi (see attachment)
stimated or Measured Original One of the state of the st	BTU 1189		BTU 1053
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:
iote: For new zones with no production history, pplicant shall be required to attach production stimates and supporting data			
If Producing, give data and pil/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
O. Are all working, overriding, and If not, have all working, overrid Have all offset operators been Will cross-flow occur? Will cross-flow occur?	royalty interests identical ing, and royalty interests b given written notice of the p	current or past production, or is based and providing rate projections or or in all commingled zones? een notified by certified mail? proposed downhole commingling? ds compatible, will the formations not reliablexYesNo (If Note that the commingling).	Yesx_No YesxNo _x_YesNo ot be damaged, will any cross-fl
2. Are all produced fluids from all	commingled zones compat	ible with each other?x_Yes _	No
3. Will the value of production be o	decreased by commingling	?Yes _X_No (If Yes, attach e	explanation)
of Land Management has been to be the communities of Land Management has been to be the communities of the c	ed with, state or federal lai notified in writing of this ap	nds, either the Commissioner of Publ plicationXYes No RDER NO(S)Reference Order R-1	0697 attached
3. ATTACHMENTS: * C-102 for each zone * Production curve for * For zones with no pr * Data to support allog	to be commingled showing each zone for at least one oduction history, estimated eation method or formula.	its spacing unit and acreage dedical year. (if not available, attach expland production rates and supporting da alty interests for uncommon interest of required to support commingling.	tion. ation.) ta.
	nation above is true an		

TYPE OR PRINT NAME __James A. Smith ____ TELEPHONE NO. (505) 326-9700_

District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719

1000 Rio Brazos Rd., Aztec. NM 87410

District (III

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-101 Reviseu February 21, 1994

Instructions on back

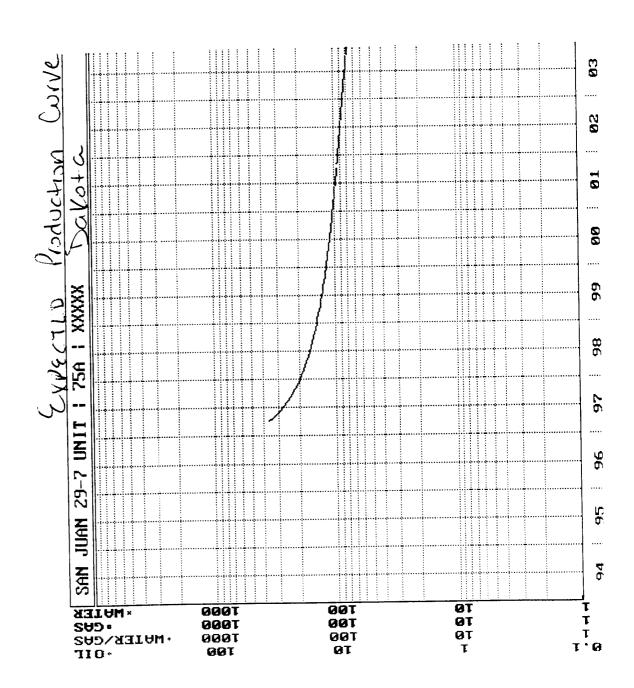
Submit to Appropriate District Office

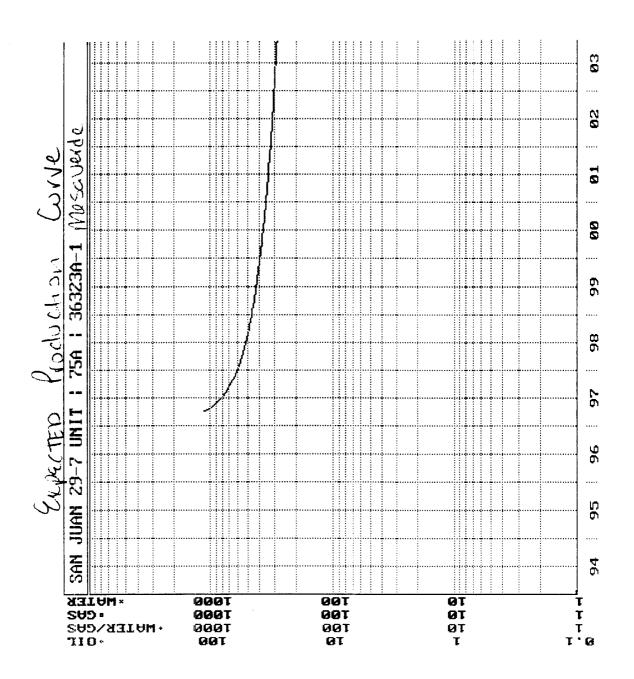
State Lease - 4 Copie: Fee Lease - 3 Contes

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

District IV PO Box 2088, Santa Fe. NM 87504-2088 AMENDED REPORT WELL LOCATION AND ACREAGE DEDICATION PLAT API Number 72319/71599 30-039-Blanco Mesaverde/Basin Dakota ' Property Code 1 Property Name Well Number 7465 San Juan 29-7 Unit 75A OGRID No. Operator Name Elevation BURLINGTON RESOURCES OIL & GAS COMPANY 6275' 14538 10 Surface Location UL or lot se. North/South line Feet from the Range Lot Ida Feet from the East West tipe County J 23 29-N 7-W 1450 South 1845 East R.A. 11 Bottom Hole Location If Different From Surface Section Lot Ida UL or lot no. Township Range Feet from the North/South line Feet (rom use East West Line Соцасу 13 Joint or Infill | 14 Consecudation Code | 15 Order No. 13 Dedicated Acres IIV-E/320NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 5268.12 17 OPERATOR CERTIFICATION 16 true and complete to the best of my instituteles and belief Pegav FEE 8 80 80. 15SURVEYOR CERTIFICATION was pioned from held peter of ACI respon, and that the same is true and correct to the best of my belief. 1845' 12/17/96 0 Date of Survey SF-078424

5273.40°



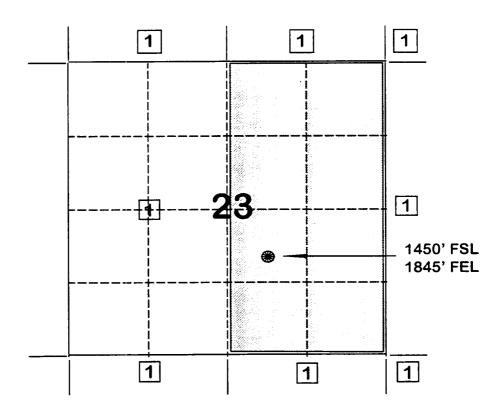


BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 29-7 Unit #75A OFFSET OPERATOR \ OWNER PLAT

Mesaverde/Dakota Formations Commingle Well

Township 29 North, Range 7 West



1) Burlington Resources Oil and Gas Company

Page No.: 1 /\scale/de Print Time: Mon Feb 10 14:51:31 1997

Property ID: 4467

Property Name: SAN JUAN 29-7 UNIT | 75 | 69675-1 55 29-7 17-5A
Table Name: K:\ARIES\RR97PDP\TEST.DBF

DATE	CUM_GAS Mcf	M SIWHP	
06/05/60 07/07/60 11/06/60 03/05/61 03/13/62 10/18/63 02/07/64 11/24/65 02/28/66 03/03/67 03/05/68 05/15/69 08/18/70 03/30/71 06/12/72 07/09/73 10/29/73 10/29/73 06/12/72 07/09/73 10/29/73 05/16/78 07/18/80 05/19/82 09/19/84 09/03/86 10/08/89 02/18/91	0 58000 138000 263000 444000 476000 661000 702000 825000 937000 1060929 1194346 1267294 1427166 1566000 1610797 1710229 1902953 2131985 2297311 2420058 2525780 2637872 2807840 2871818	1102.0° 1101.0 781.0 773.0 727.0 648.0 679.0 662.0 650.0 650.0 650.0 593.0 543.0 520.0 381.0 426.0 399.0 465.0 503.0 568.0 552.0	c -original
07/05/91 05/03/93	2885866 3066303	562.0	e-Willent

Dakota

Page No.: 1

Print Time: Mon Feb 10 14:56:19 1997

Property ID: 2099

Property Name: SAN JUAN 29-7 UNIT | 138 | 2554A-1 55 29- 1 415A

Table Name: K:\ARIES\RR97PDP\TEST.DBF

--DATE-- ---CUM GAS-- M SIMUD

DATE		
***********	Mcf	:::The ::::
	MCI	PSI

		25 (1)(6)
01/26/87	0	1232.0 - original
10/08/89	108026	982.0
04/09/90	124560	862.0
07/01/92	166875	592.0
06/18/94	197926	800.0 € W(1847)

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.619
COND. OR MISC. (C/M)	С
%N2	0.24
%CO2	1.52
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	8015
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	800
DOTTONNOLE DEFOUNDE (DOIA)	050.7
BOTTOMHOLE PRESSURE (PSIA)	952.7

SAN JUAN 29-7 UNIT #138 DAKOTA - CURRENT

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.619
COND. OR MISC. (C/M)	C
%N2	0.24
%CO2	1.52
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	8015
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1232
BOTTOMHOLE PRESSURE (PSIA)	1479.0

SAN JUAN 29-7 UNIT #138 DAKOTA - ORIGINAL

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.698
COND. OR MISC. (C/M)	С
%N2	0.13
%CO2	0.97
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	5338
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	457
BOTTOMHOLE PRESSURE (PSIA)	522.6

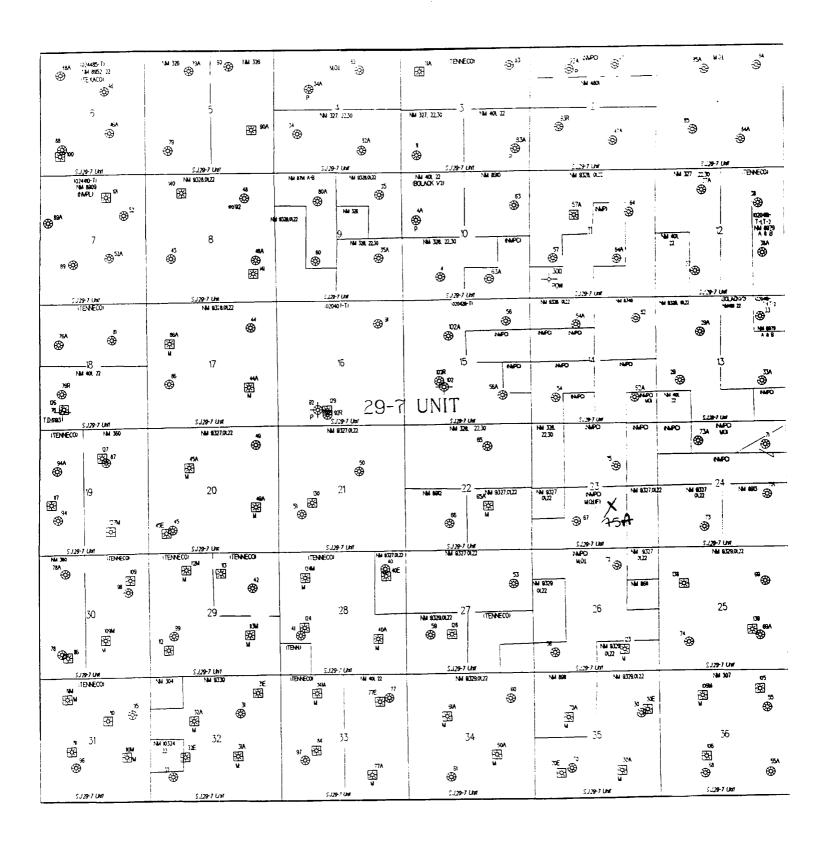
SAN JUAN 29-7 UNIT #75 MESAVERDE - CURRENT

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.698
COND. OR MISC. (C/M)	C
%N2	0.13
%CO2	0.97
%H2S	
DIAMETER (IN)	2.375
DEPTH (FT)	5338
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1102
BOTTOMHOLE PRESSURE (PSIA)	1280.4

SAN JUAN 29-7 UNIT #75 MESAVERDE - ORIGINAL



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. 11629 ORDER NO. R-10697

APPLICATION OF BURLINGTON RESOURCES OIL & GAS COMPANY FOR THE ESTABLISHMENT OF A DOWNHOLE COMMINGLING "REFERENCE CASE" FOR ITS SAN JUAN 29-7 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 8th 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 29-7 Unit, San Juan County, New Mexico.
- (3) Division Rule No. 303.E., amended by Order No. R-10470-A, currently states:

- d) establish a "reference case" or an administrative procedure for authorizing the downhole commingling of existing or future drilled wells within the San Juan 29-7 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 29-7 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 245 MMCFG and 76 MMCFG, respectively;
 - c) the average initial producing rate for a newly drilled or recompleted Dakota and Pictured Cliffs gas well is approximately 218 MCFGD and 238 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 29-7 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 29-7 Unit, the applicant presented engineering evidence and testimony which indicates that:
 - a) the average shut-in bottomhole pressure within the Dakota and Pictured Cliffs formations at the time of initial development was approximately 3,209 psi and 1,148 psi, respectively; and.
 - b) the average current shut-in bottomhole pressure within the Dakota and Pictured Cliffs formations is approximately 952 psi and 655 psi, respectively.

- 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 29-7 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 29-7 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 29-7 Unit, San Juan County, New Mexico, is hereby approved.
- (2) Upon filing of Division Form No. C-107-A's for wells subsequently downhole commingled within the San Juan 29-7 Unit Area, the applicant shall not be required to submit supporting data to justify the classification of the Pictured Cliffs and Dakota formations as "marginal", supporting data to verify the Pictured 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 commingle wells within the San Juan 29-7 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 29-7 Unit of such proposed commingling.