DISTRICT I

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

State of New Mexico Energy, Minerals and Natural Resources Department

DISTRICT II

811 South First St., Artesia, NM 88210-2835

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410-1693

OIL CONSERVATION DIVISION

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

APPROVAL PROCESS:

X Administrative ___Hearing

EXISTING WELLBORE

APPLICATION FOR DOWNHOLE COMMINGLING

_ YES __ NO

Burlington Resources Oil &		PO Box 4289, Farmington, NM 87499		
^{Operator} San Juan 28-6 Unit	156M E 2		Rio Arriba	
Constant No14538 Property			County g Unit Lease Types: (check 1 or more) ate(and/or) Fee	
The following facts are submitted in support of downhole commingling:	Upper Zone	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	DECEIAED	will be supplied upon completion	
Type of production (Oil or Gas)	gas	MAK 1 7 1997	gas	
Method of Production (Flowing or Artificial Lift)	flowing	OIL COM. DIV.	flowing	
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	(Current) a. 613 psi (see attachment)	a. (2) (2) (3) (4)	a. 988 psi (see attachment)	
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. 1300 psi (see attachment)	b.	b. 3364 psi (see attachment)	
6. Oil Gravity (°API) or Gas BTU Content	BTU 1164		BTU 1179	
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:	
Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: % Gas: % will be supplied upon completion	Oit: Gas: %	Oil: Gas: % will be supplied upon completion	
If allocation formula is based attachments with supporting da	upon something other than curr ata and/or explaining method and	rent or past production, or is bad d providing rate projections or ot	ased upon some other method, subm her required data.	
10. Are all working, overriding, and If not, have all working, overridi Have all offset operators been g	royalty interests identical in all on ng, and royalty interests been not jiven written notice of the propos	commingled zones? otified by certified mail? sed downhole commingling?	Yesx_No Yesx_No _x_YesNo	
 Will cross-flow occur? _x production be recovered, and v 	Yes No _ If yes, are fluids c will the allocation formula be relia	compatible, will the formations rablex YesNo (If No,	not be damaged, will any cross-flow attach explanation)	
12. Are all produced fluids from all o	•		-	
13. Will the value of production be d 14. If this well is on, or communitize of land Management has been a		· · · · · ·	planation) plic Lands or the United States Bure	
15. NMOCD Reference Cases for Ru				
16. ATTACHMENTS:	to be commingled chaving its an	acing unit and acreage dedication (If not available, attach explanat uction rates and supporting data erests for uncommon interest cased to support commingling.	_	
I hereby certify that the inform				

obbs. NM 88241-1988

State of New Mexico

Form C-102 Revised February 21, 1994

D. Artenia, NM 88211-0719

instructions on back

Bream Rd., Astec. NM 27410

OIL CONSERVATION DIVISION

PO Box 2088

96 NOV 20

Submit to Appropriate District Office
For Lease - 4 Copies

Fee Lease - 3 Copies

ıv JE 2008, Santa Fe. NM 87504-2088 AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	¹ Post Code	' Post Name	
30-039-	72319/71599	Blanco Mesaverde/Basin Dako	ta
* Property Code		Property Name	* Well Number
1	San	Juan 28-6 Unit	156M
7 4 6 2 ' OGRID No.	1	Operator Name	Elevenes 6524 '
14538	BURLINGTON RESC	OURCES OIL & GAS COMPANY	0324
14330 1	10.0	-f Location	

10 Surface Location

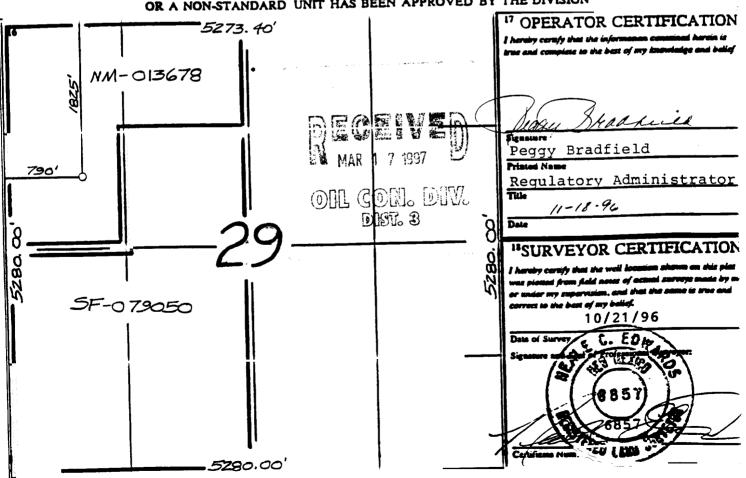
UL or lot se.	Section	Township	Range	Lot Ide	Feet from the	North/South line	Feet from the	East/West time	County
E	29		6-W		1825	North	790	West	R.A.
					<u>!</u>		C -fore		

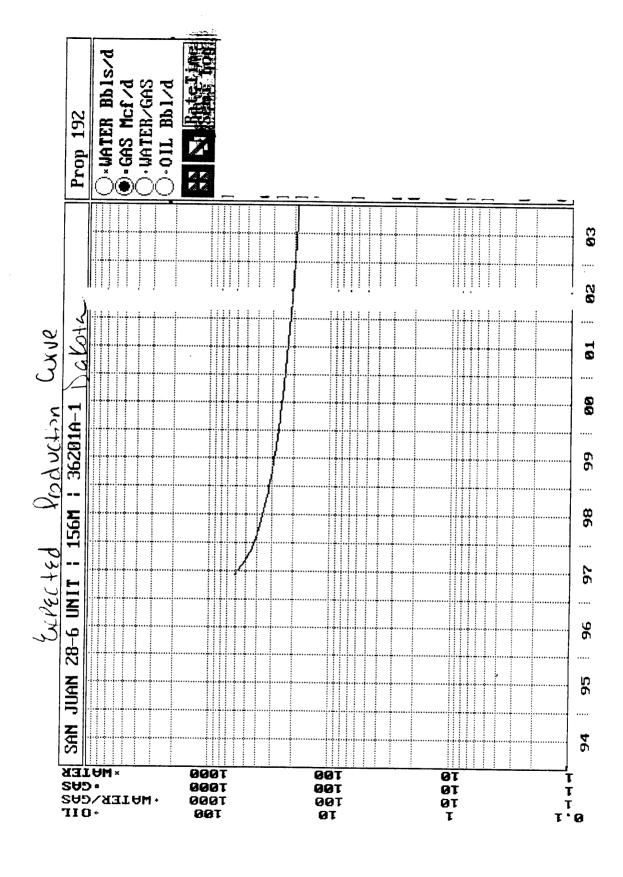
Il Rottom Hole I ocation If Different From Surface

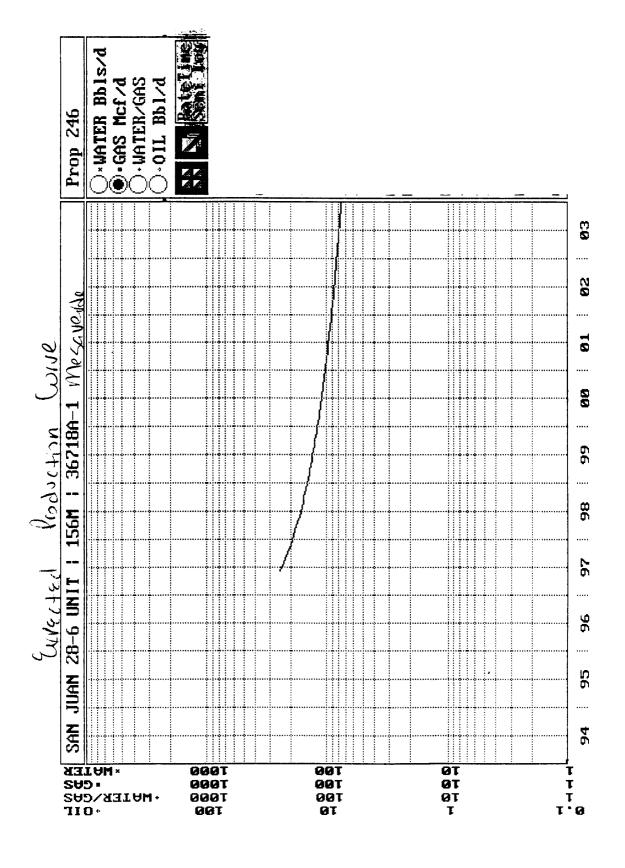
			" Bot	tom Hol	e Location i	i Different Fr	om Surface		
UL or lot se.	Section	Township	Range	Lot ids	Feet from the	North/South line	Feet from the	East/West time	County
u Dedicated Acr	an 'S Joint	or infill 14 ;	Constideti	na Code 10 (Order No.				

W/320

W/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





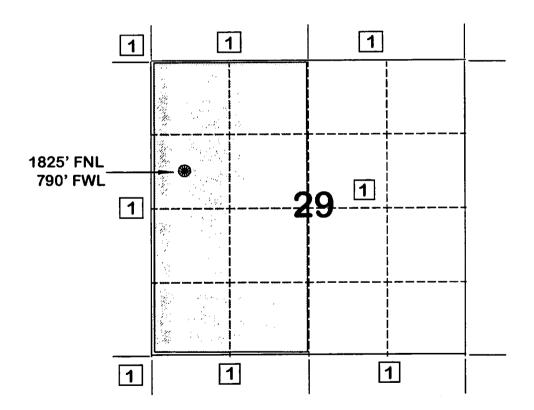


BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 28-6 Unit #156M OFFSET OPERATOR \ OWNER PLAT

Mesaverde/Dakota Formations Commingle Well

Township 28 North, Range 6 West



1) Burlington Resources Oil and Gas Company

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

GAS GRAVITY	0.702
COND. OR MISC. (C/M)	С
%N2	1.14
%CO2	1
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	7729
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	812
POTTOMINOLE PRESCURE (PSIA)	000.0
BOTTOMHOLE PRESSURE (PSIA)	900.0

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

GAS GRAVITY	0.702
COND. OR MISC. (C/M)	С
%N2	1.14
%CO2	1
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	7729
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	2718
BOTTOMHOLE PRESSURE (PSIA)	3364.1

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

GAS GRAVITY	0.704
COND. OR MISC. (C/M)	С
%N2	2.64
%CO2	0.69
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	5543
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1112
BOTTOMHOLE PRESSURE (PSIA)	1300.3

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

GAS GRAVITY	0.704
COND. OR MISC. (C/M)	C
%N2	2.64
%CO2	0.69
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	5543
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	532
BOTTOMHOLE PRESSURE (PSIA)	613.2

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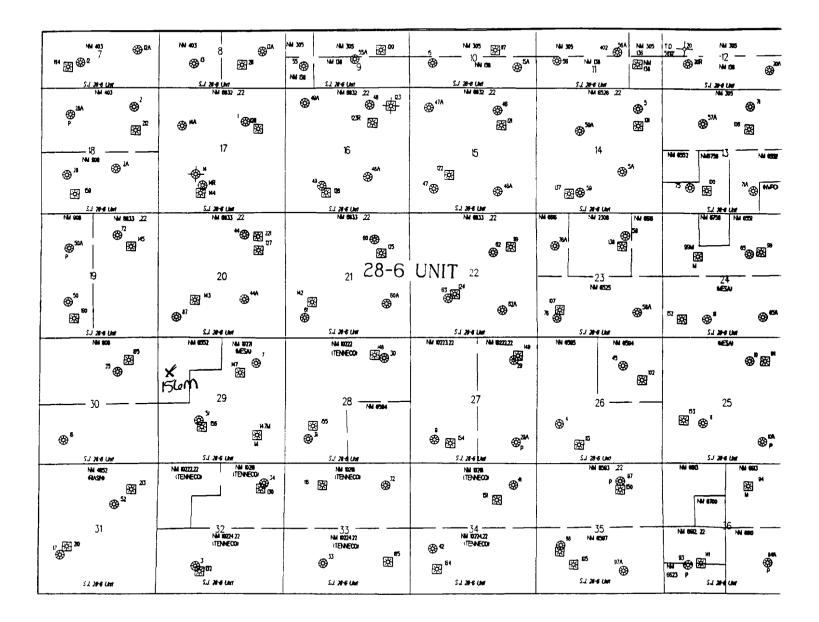
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Dakota Offset
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11/02/71
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STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

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 wells 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;
 - c) 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 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 28-6 Unit, San Juan County, New Mexico, is hereby approved.