DISTRICT I

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

DISTRICT II

DISTRICT III

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

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

APPLICATION FOR DOWNHOLE COMMINGLING

__YES ___NO

n Juan 28-6 Unit	205M F & 0	9-27-6 R	io Arriba
10	Well No. Unit	Ltr Sec - Twp - Rge Specing	County Unit Lesse Types: (check 1 or more)
GRID NO14538 Property C	ode _7462 API NO30-039-	-not assignedFederalX_	, State(and/or) Fee
The following facts are submitted in support of downhole sommingling:	Lipper Zone	Intermediate Zone	Lower
1. Pool Name and Pool Code	Blanco Mesaverde - 72319		Basin Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	will be supplied upon completion	DECEIVED	will be supplied upon completion
3. Type of production (Oil or Gas)	gas	MAR 1 7 1997	gas
4. Method of Production (Flowing or Artificial Lift)	flowing	OIL COM. DIV.	flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift:	(Current) a. 753 psi (see attachment)	a. Dibil. 3	a. 1117 psi (see attachment)
Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. 1165 psi (see attachment)	b .	b. 3130 psi (see attachment)
8. Oil Gravity (°API) or Gas BTU Content	BTU 1207		BTU 1100
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: Rates:	Date: n/a Rates:
Note: For new zones with no production history, applicant shall be required to attach production setimates and supporting data	•		
f 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 u attachments with supporting da	pon something other than cur ta and/or explaining method an	rent or past production, or is ba d providing rate projections or ot	sed upon some other method, ner required data.
Are all working, overriding, and If not, have all working, overriding Have all offset operators been g	royalty interests identical in all ng, and royalty interests been n iven written notice of the propo	commingled zones? otified by certified mail? sed downhole commingling?	YesxNo YesxNo _x_YesNo
I. Will cross-flow occur? x	Yes No If ves, are fluids o		ot be damaged, will any cross
2. Are all produced fluids from all c	_		
3. Will the value of production be d			
 If this well is on, or communitiz of Land Management has been not NMOCD Reference Cases for Ru 			
ATTACHMENTS:			
± 0 400 f 1	to be commingled showing its speach zone for at least one year. duction history, estimated prodution method or formula. offset operators. rking, overriding, and royalty in the state of documents required.	pacing unit and acreage dedicatio (If not available, attach explanation luction rates and supporting data. terests for uncommon interest cared to support commingling.	n. on.) ses.

TYPE OR PRINT NAME __ Sean Woolverton____ TELEPHONE NO. (505) 326-9700_

District I PO Bes 1980, Hobbs, NM \$8241-1980 PO Drawer DD. Artesia. NM 88211-0719 District III

1000 Nie Brusse Rd., Aztec. NM 87410

State of New Mexico

Revised February 21, 19 Instructions on ba

Submit to Appropriate District Offi

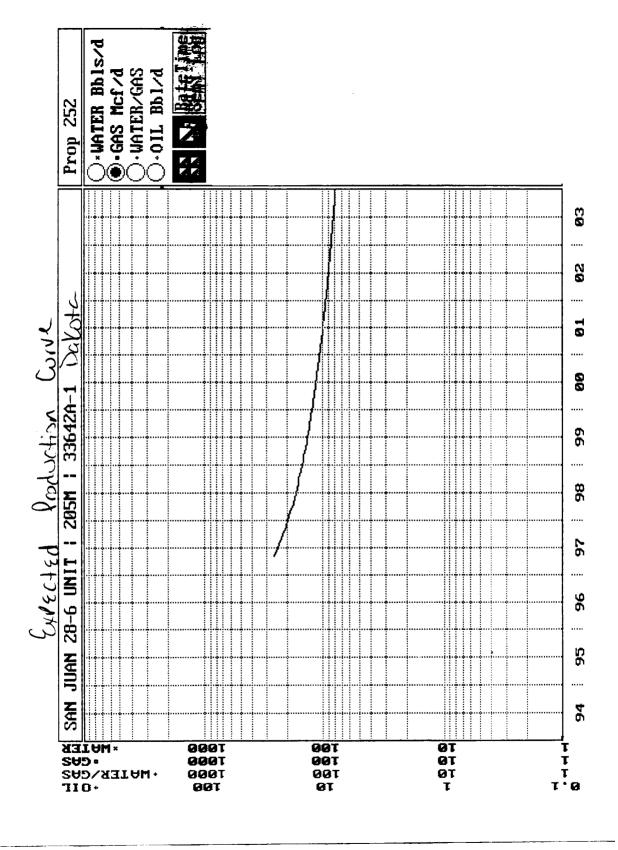
State Lease - 4 Con: Fee Lause - 3 Copi

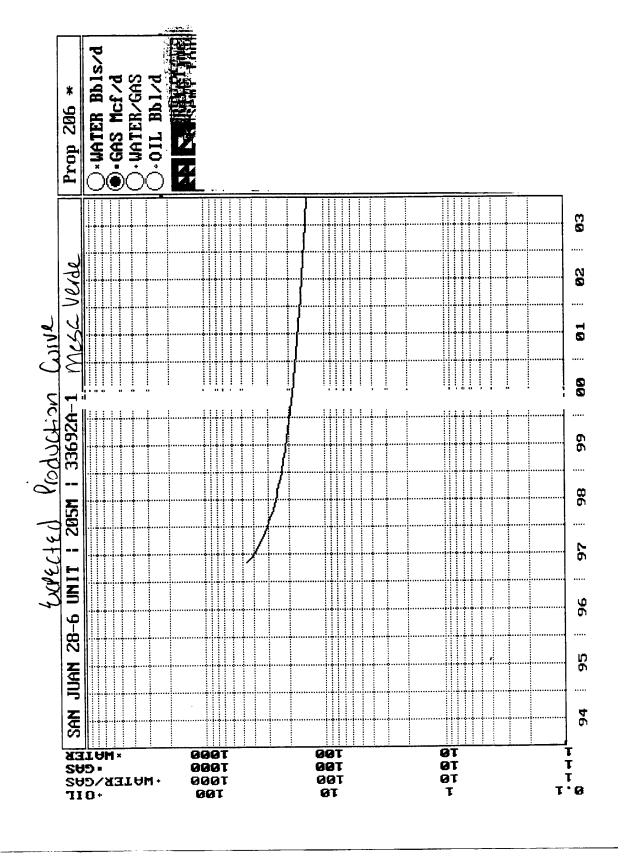
Form C-1

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

District IV PO Bas 2008, Santa Fe. NM 87504-2088 AMENDED REPOR WELL LOCATION AND ACREAGE DEDICATION PLAT API Number 72319/71599 Blanco Mesaverde/Basin Dakota 30-039-· Well Number * Property Code 205M 7462 San Juan 28-6 Unit "Elgreuse 'OGRID No. Operator Name 6468' BURLINGTON RESOURCES OIL & GAS COMPANY 14538 16 Surface Location North/South line Feet from the East/West time County Feet from the UL or lot se. Section Range Let Ide 9 1520 West R.A. 27-N 6-W 1070 North 11 Bottom Hole Location If Different From Surface Feet (rom the East West tipe North/South tine Canatz Section Let Ida Feet from the Township Rence UL ar lot se. NV-W/320 15 Joint or Infill 14 Consocidation Code | 15 Order No. DK-W/320 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 17 OPERATOR CERTIFICATIO *5229.18" true and complete to the best of my imm 64 1520 Signature SF-079049 Peggy Bradfield SF-079049-C Printed Name Regulatory Administrato Tile Date "SURVEYOR CERTIFICATIO ul from field notes of assess surveys made by erroce to the best of my belief. SF-079049-C DECLIVER OIL CON. DIV. DIST, 3

5254.92′



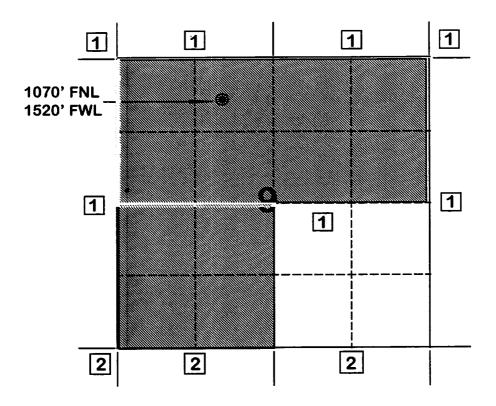


BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 28-6 Unit #205M OFFSET OPERATOR \ OWNER PLAT

Mesaverde (W/2)/Dakota (N/2) Formations Commingle Well

Township 27 North, Range 6 West



1) Burlington Resources Oil and Gas Company Successor to Meridian Oil Inc.

2) UNOCAL Corp. 1004 North Big Spring, Suite 300 Midland, TX 79702

VERSION 1.0 3/13/94

GAS GRAVITY	0.643
COND. OR MISC. (C/M)	С
%N2	0.28
%CO2	1.13
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	7628
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	936
BOTTOMHOLE PRESSURE (PSIA)	1117.1

SAN JUAN 28-6 UNIT #205 DAKOTA - CURRENT

VERSION 1.0 3/13/94

GAS GRAVITY	0.643
COND. OR MISC. (C/M)	С
%N2	0.28
%CO2	1.13
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	7628
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	2590
• •	
BOTTOMHOLE PRESSURE (PSIA)	3129.6

SAN JUAN 28-6 UNIT #205 DAKOTA - ORIGINAL

VERSION 1.0 3/13/94

VERSION 1.0 STOOP	
GAS GRAVITY	0.707
COND. OR MISC. (C/M)	C
%N2	0.37
%CO2	0.72
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	5353
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	654
BOTTOMHOLE PRESSURE (PSIA)	753.4

SAN JUAN 28-6 UNIT #11 MESAVERDE -CURRENT

VERSION 1.0 3/13/94

GAS GRAVITY	0.707
COND. OR MISC. (C/M)	С
%N2	0.37
%CO2	0.72
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	5353
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1002
BOTTOMHOLE PRESSURE (PSIA)	1164.9

SAN JUAN 28-6 UNIT #11 MESAVERDE -ORIGINAL

Page No.: 1

Print Time: Tue Mar 04 08:51:19 1997 Property ID: 10388

Property Name: SAN JUAN 28-6 UNIT | 11 | 49547A-1 57 74-6 # 205M
Table Name: K:\ARIES\RR97PDP\TEST.DBF

--DATE-- ---CUM GAS-- M SIWHP

MESAVUILE OFFSEA

	CUM_GAS Mcf	Psi		MICSAVAILE
11/30/54	0	1002.0	e original	
06/08/56		989.0	·	
11/16/56	14000	955.0		
04/24/57	25000	849.0		
09/06/58		1027.0		
09/22/59	84000	935.0		
10/06/60	110000	869.0		
09/13/61	131000	860.0		
04/09/62	138000	875.0		
08/02/63	159000	829.0		
05/08/64	173000	843.0		
05/03/65	189000	843.0		
06/07/66	206000	839.0		
06/02/67		799.0		
05/27/68		798.0		
11/11/68		718.0		
10/16/70		645.0		
07/07/71	306442	682.0		
05/30/72	313893	754.0		
12/10/80		691.0		
05/18/82		672.0		
07/26/84		676.0		
09/18/86		671.0		
10/08/89		694.0		
04/15/91		642.0		
10/14/91	549228	654.0	< WILENT	

Page No.: 1
Print Time: Tue Mar 04 08:29:59 1997

Property ID: 1891

Property Name: SAN JUAN 28-6 UNIT | 205 | 44079A-1

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

ST 78-6 # WSM Dakota Offset

DATE	CUM_GAS	Psi	
05/30/79	0	2590.0	original
05/31/79	0	2591.0	
09/04/79	58862	1618.0	
06/10/80	177216	1014.0	
08/03/81	302784	920.0	
06/02/83	422207	1023.0	
12/02/85	564092	936.0	
10/03/88	673663	915.0	
04/23/90	736681	943.0	
03/29/92	806193	936.0	- willow

& % ₩ 83	» ⊗ »	8 , 33 m	%2 ⁷⁴ 98-Y	± €9 2	⊠ ®€
6 ************************************	5 ************************************	4 57 2 3 4 70220	3 33 5 15 69	2 ₩ ₩ ₩ ₽	1 1594 SS 186 SP ³⁶
»» (8 9° ⊠	204	902W ®.	24 206 833	ss & ⁶⁶ P	# P
7 ⊞ ²³ ∞ × ∞ ⊛ × ∞ ∞ ∞	8 8 3 8 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 ** ** ** ** **	10 25 (SEE) 207	11 200 25d ⊕39 79	# @M
584 5° <u>384</u>	× 8 ⊠	® ²⁴ 79 ≅8 ⊗ ³²	**************************************	∰ ⁶⁷ 88 14	,∞ 2 13
18 97 89 57 87 88	17 25	88 89 ³ ∧	15 89 27A	84 89 25EE	ss ⊕9 vs P EES -
?444	25	BOM	28A & 88 88 29 22	89 89 82A № 23	*** *** ******************************
19 607 08C 08A 8翌 04 c 8翌 89	20 70M 70M 88 W 88 W	かい	20 ∰ ∰ M ∰ M € Sept.	88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	88 88 28 MB
#9₩ 점 w 점 E	050 M C 550 M C 550 M	27M 328 W 528 ²⁷ W	ss 卷 ³⁸ 2 2 2 2 2 2 2 2 2 2	系	ॐ ** ॐ ** € 25
30 88 88	29 29 28 28 28 28 28 28 28 28 28 28 28 28 28 2	28 cs 25M 经 25M u w 经	, ⊠ ⁶⁶ , ⊠ ⁶⁶	26 00 82 00 00 00 00 00 00 00 00 00 00 00 00 00	88 6: 89 ° 88 P ⊌
nec 図 ^{ne} 図M	* 928 * 938 * 32	⊞' '	8 ₩ F W	\$\$\frac{1}{82}\$\$ \$\$\frac{2}{82}\$\$ \$\$\frac{2}{9}\$\$	° ॐ 83 °
31 83E 83 SE SE M	32 30E	33 ₩ 3 38 € °	34 2 2 2 83 6	ND-6F NS NA SSI NA	₂ 889 300
					· -

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.