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

EXISTING WELLBORE

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

APPLICATION FOR DOWNHOLE COMMINGLING __YES __x_ NO PO Box 4289, Farmington, NM 87499 **Burlington Resources Oil & Gas Company**

Operator	Addre	88	
San Juan 28-6 Unit	115M P 3-2	27-6 R	io Arriba
Lease	Well No. Unit Lt	r Sec - Twp - Rge	County
	-d- 7400 ARI NO 20 020 0		Unit Lease Types: (check 1 or more)
OGRID NO14538 Property Co	308/462 API NO30-039-2	5027Federal_x, State	, (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	(FCEIAE)	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		flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	(Current) a. 732 psi (see attachment)	a. DIM. 2	a. 1069 psi (see attachment)
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. 1312 psi (see attachment)	b.	b. 3098 psi (see attachment)
6. Oil Gravity (°API) or Gas BTU Content	BTU 1204		BTU 1060
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	Oil: Gas: %	Oil: Gas: % will be supplied upon completion
10 Are all working overriding and	ata and/or explaining method and	providing rate projections or other comminated zones?	d upon some other method, submi her required data. YesxNoYesxNox_YesNo
11. Will cross-flow occur? _x_ \ production be recovered, and \	fes No _ If yes, are fluids com will the allocation formula be relia	npatible, will the formations not ablex YesNo (If No,	be damaged, will any cross-flower attach explanation)
12. Are all produced fluids from all			
13. Will the value of production be o			
 If this well is on, or communitize of Land Management has been r 	∍α with, state or federal lands, ei notified in writing of this applicatio	tner the Commissioner of Public onX_Yes No	Lands or the United States Burea
15. NMOCD Reference Cases for Ru	ale 303(D) Exceptions: ORDER N	IO(S) Reference Order R-10	696 attached
16. ATTACHMENTS: * C-102 for each zone * Production curve for * For zones with no pro * Data to support alloc * Notification list of all * Notification list of wo * Any additional stater	to be commingled showing its spa each zone for at least one year. oduction history, estimated produ ation method or formula. offset operators. orking, overriding, and royalty inte ments, data, or documents require	acing unit and acreage dedication (If not available, attach explanate in the explanate in t	on. ses.
I hereby certify that the inform			
SIGNATURE	. StTITLE_Prod	uction EngineerDA1	E2/20/97
TYPE OR PRINT NAME _ Jam			

intrict 4
**O Box 4988, Hubbs, NM 28241-1989
Natrict 41
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intrict 411
**OOS Rie Brazes Rd., Aziec, NM 27418
histrict 4V

State of New Mexico Energy, Minorain & Natural Resources Department

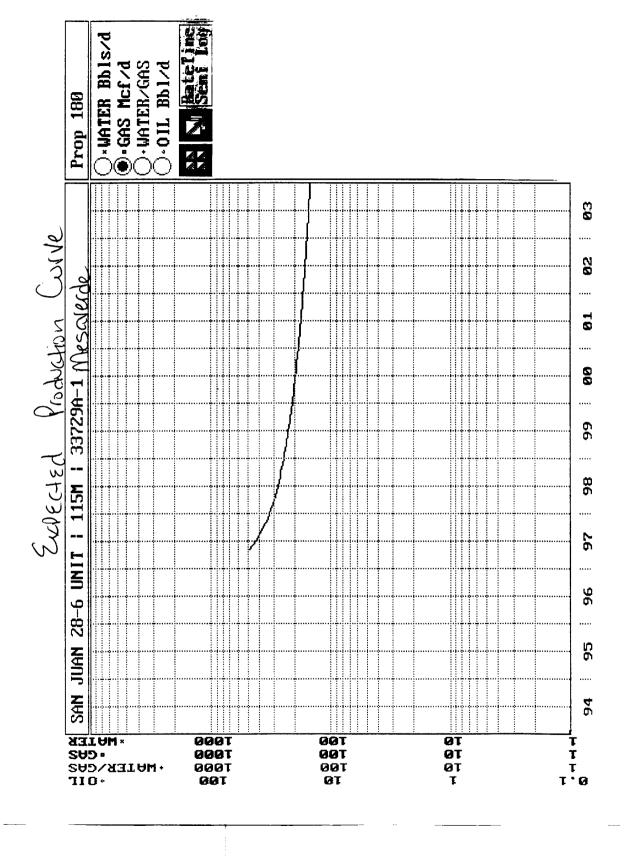
OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102 Revised February 21, 1994 Instructions on back

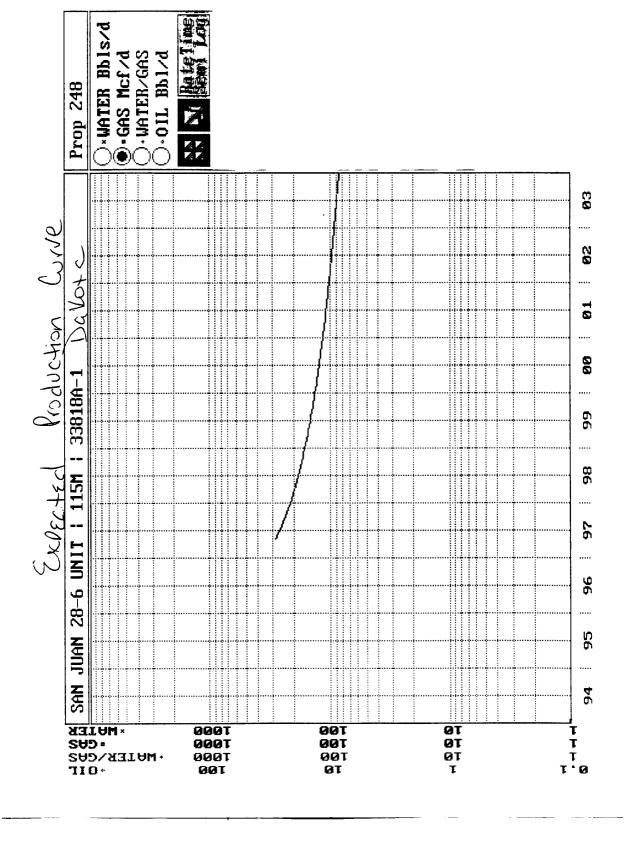
Submit to Appropriate District Office

State Lease - 4 Copies
Fee Lease - 3 Copies

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O Box 20 68 , San	ia fe. NM	87504-2088						<u> </u>	WENDED KELOKI
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30-03		,	723	19/715		anco Mesave	erde/Basir	<u>n Dakota</u>	
· Property (Cada					Property Name 'Well Number			115M
7462						28-6 Unit			*Elemen
OGRID	Ne.		BURL	NGTON		S OIL & GAS	COMPANY		6260'
14538		10 Surface Location							
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		OR A	NON-ST	ANDARI	UNIT HAS E	BEEN APPROVED	BY THE DIV	ISION	
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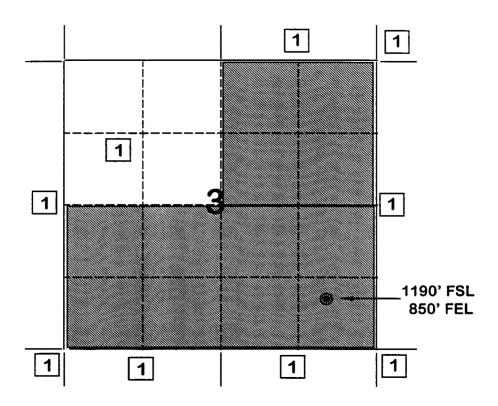




BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 28-6 Unit #115M OFFSET OPERATOR \ OWNER PLAT

Mesaverde (E/2)/Dakota (S/2) Formations Commingle Well Township 27 North, Range 6 West



1) Burlington Resources Oil and Gas Company

Mesaverde Page No.: 1

Print Time: Thu Feb 13 15:55:18 1997

Property Name: SAN JUAN 28-6 UNIT | 75 | 49889A-1 SJ 28-6 H 15m Table Name: K:\ARIES\RR97PDP\TEST.DBF

DATE	CUM GAS	M SIWHP	
	Mcf	Psi	
		10112 2 21111	
02/08/57	0	1119.0	- origina
03/05/57	0	1118.0	3
01/23/58	34000	944.0	
11/06/58	90000	861.0	
06/14/59	138000	853.0	
06/14/60	202000	837.0	
06/13/61	257000	794.0	
09/24/62	314000	816.0	
05/06/63	346000	757.0	
04/22/64	386000	768.0	
05/03/65	433000	730.0	
06/07/66	488000	701.0	
05/25/67	534000	677.0	
05/27/68	588000	632.0	
07/28/70	672566	658.0	
06/21/71	712310	613.0	
06/07/72	757230	607.0	
05/02/74	825338	627.0	
04/29/76	889909	623.0	
05/23/78	961037	612.0	
06/04/80	1021894		
05/20/82	1074148	597.0	
05/09/89	1194848	622.0	

1224993

1225997

627.0

639.0 ~ WITTING

05/20/91

06/09/91

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.715
COND. OR MISC. (C/M)	С
%N2	0.66
%CO2	0.93
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	5468
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1119
BOTTOMHOLE PRESSURE (PSIA)	1312.0

SAN JUAN 29-7 UNIT #58 MESAVERDE - ORIGINAL

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.705
COND. OR MISC. (C/M)	С
%N2	0.35
%CO2	0.71
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	5184
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	639
BOTTOMHOLE PRESSURE (PSIA)	732.2

SAN JUAN 28-6 UNIT #75 MESAVERDE - CURRENT

Jallia

DSC-1

Page No.: 1

Print Time: Thu Feb 13 15:55:51 1997 Property ID: 1833

Property Name: SAN JUAN 28-6 UNIT | 115 | 51500A-1 55 28-10 # 115111 Table Name: K:\ARIES\RR97PDP\TEST.DBF

DATE	CUM_GAS Mcf	M SIWHP
07/31/64	0	2604.0 € 0(161.70)
08/11/64	0	2648.0
11/19/65	74000	1480.0
10/05/66	159000	947.0
05/27/67	204000	878.0
05/27/68	265000	844.0
08/18/69	335943	806.0
07/28/70	377211	939.0
06/21/71	425587	832.0
06/07/72	469493	912.0
05/05/75	597221	748.0
07/05/77	686453	714.0
08/21/79	768482	760.0
08/12/81	847006	773.0
09/28/83	912643	954.0
09/04/85	978374	836.0
10/05/88	1037789	984.0
05/08/90	1090577	650.0
04/29/92	1146993	909.0 - WrievH

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.617
COND. OR MISC. (C/M)	С
%N2	0.26
%CO2	1.11
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	7392
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	2604
BOTTOMHOLE PRESSURE (PSIA)	3097.5

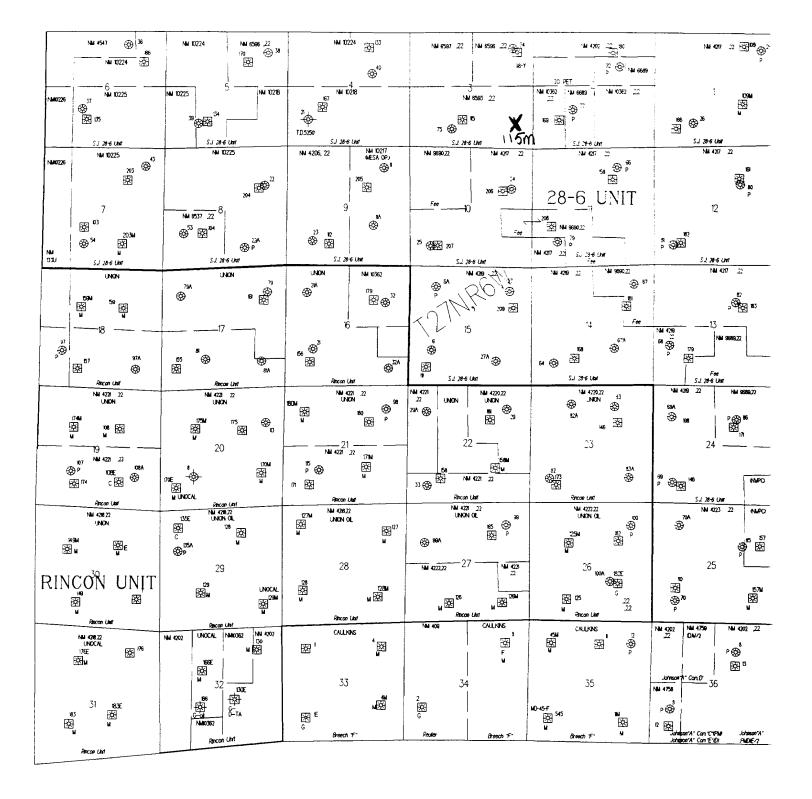
SAN JUAN 28-6 UNIT #115 DAKOTA -ORIGINAL

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.617
COND. OR MISC. (C/M)	С
%N2	0.26
%CO2	1.11
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	7392
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	909
BOTTOMHOLE PRESSURE (PSIA)	1069.3

SAN JUAN 28-6 UNIT #115 DAKOTA - CURRENT



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.