DISTRICT I

P.O. Bex 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 APPROVAL PROC

2040 S. Pacheco Santa Fe, New Mexico 87505-6429 APPROVAL PROCESS:
_X_Administrative ___Hearing

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

perator	Gas Company	PO Bo	ox 4289, Farmington, NM 87499
AN JUAN 28-6 UNIT	180M	Ø 02-27N-6W	Rio Arriba
150	Well No. Uni	it Ltr Sec - Twp - Rge Spac	County ing Unit Lease Types: (check 1 or more)
RID NO14538 Property Code	7462 API NO30-039-25	•	•
hasfollowing facts as support of the			
. Pool Name and Pool Code	Blanco Mesaverde - 72319	h	Basin Dakota - 71599
. Top and Bottom of Pay Section (Perforations)	will be supplied upon completion	200 Comp. 14 15 Comp.	will be supplied upon completion
3. Type of production (Oil or Gas)	gas	D)EGETYE	gas
I. Method of Production (Flowing or Artificial Lift)	flowing	1213 OCT - 7 1997 1	flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	(Current) a. 723 psi (see attachment)	OIL COM. DA	a. 959 psi (see attachment)
Gas & Oil - Flowing: All Gas Zones: Estimated or Measured Original	(Original) b. 1273 psi (see attachment)	b.	b. 3210 psi (see attachment)
B. Oil Gravity (°API) or Gas BTÜ Content	BTU 1223		BTU 1084
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:
iots: For new zones with no production history, pplicant shall be required to attach production etimates and supporting data			
th f Producing, give data and oligas/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 2006	Oil: % Gaa: %	Oil: % Gas: %	Oil: Gae: %
(total of %'s to equal 100%)	will be supplied upon completion		will be supplied upon completion
D. Are all working, overriding, and If not, have all working, overric Have all offset operators been	d royalty interests identical in ding, and royalty interests bee given written notice of the pro _ Yes No _ If yes, are fluid will the allocation formula be	all commingled zones? In notified by certified mail? Oposed downhole commingling	is based upon some other method, sor other required data. YesxNoYesNo _x_YesNo ions not be damaged, will any cross- (If No, attach explanation)
. Are all produced fluids from all		le with each other?x_Y	′es No
2. Are all produced fluids from all 3. Will the value of production be	decreased by commingling?	e with each other?x_ \ Yes _X_ No(If Yes, att	′es No ach explanation)
2. Are all produced fluids from all 3. Will the value of production be 4. If this well is on, or communitiz Land Management has been no	decreased by commingling? zed with, state or federal land tifled in writing of this applica	e with each other?x_ \ Yes _X_ No(If Yes, atta s, either the Commissioner of tionXYes No	es No ach explanation) Public Lands or the United States Bu
2. Are all produced fluids from all 3. Will the value of production be 4. If this well is on, or communitiz Land Management has been no 5. NMOCD Reference Cases for R	decreased by commingling? zed with, state or federal land tified in writing of this applica Rule 303(D) Exceptions: ORDS	e with each other?x_ \ Yes _X_ No(If Yes, atta s, either the Commissioner of tionXYes No	es No ach explanation) Public Lands or the United States Bu
2. Are all produced fluids from all 3. Will the value of production be 4. If this well is on, or communitiz Land Management has been no 5. NMOCD Reference Cases for R 6. ATTACHMENTS:	decreased by commingling? zed with, state or federal land: stified in writing of this applical zule 303(D) Exceptions: ORDE to be commingled showing its reach zone for at least one ye roduction history, estimated pication method or formula. Il offset operators. orking, overriding, and royalty ments, data, or documents recomments, data, or documents.	e with each other?x_Yes _X_No(If Yes, attractionx_YesNo	es No ach explanation) Public Lands or the United States But dication. planation.) g data. rest cases. J. knowledge and belief.
2. Are all produced fluids from all 3. Will the value of production be 4. If this well is on, or communitiz Land Management has been no 5. NMOCD Reference Cases for R	decreased by commingling? zed with, state or federal land: stified in writing of this applical zule 303(D) Exceptions: ORDE to be commingled showing its reach zone for at least one ye roduction history, estimated pication method or formula. Il offset operators. orking, overriding, and royalty ments, data, or documents recomments, data, or documents.	e with each other?x_Yes _X_No(If Yes, attractionx_YesNo	es No ach explanation) Public Lands or the United States But dication. planation.) g data. rest cases. J. knowledge and belief.

District I PO Box 1980, Hobbs, NM 88241-1980

District II PO Drawer DD. Artesia, NM 88211-0719

District III 1000 Alo Brazos Ad., Aztec, NM 87410

District IV PO Box 2088. Santa Fe, NM 87504-2088 State of New Mexico Energy, Munerals & Natural Resources Department

Revised February 21, 19
Instructions on b
Submit to Appropriate District Off
State Lease - 4 Cop
Fee Lease - 3 Cop

Certificate Number

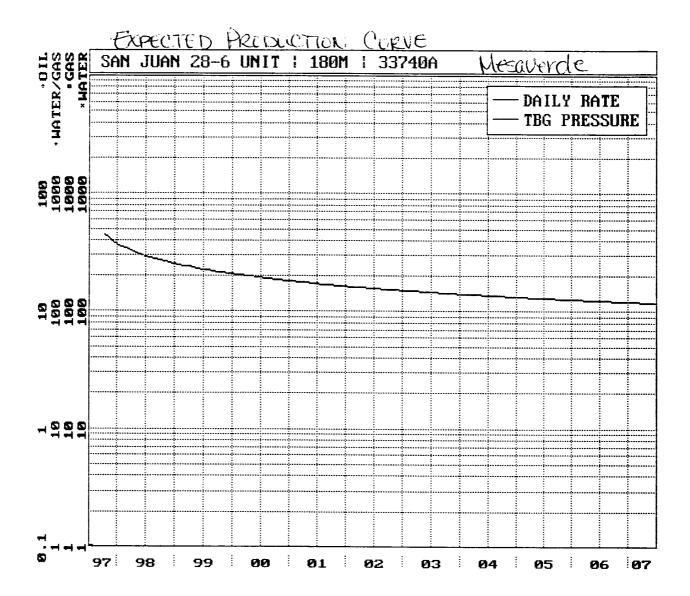
OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

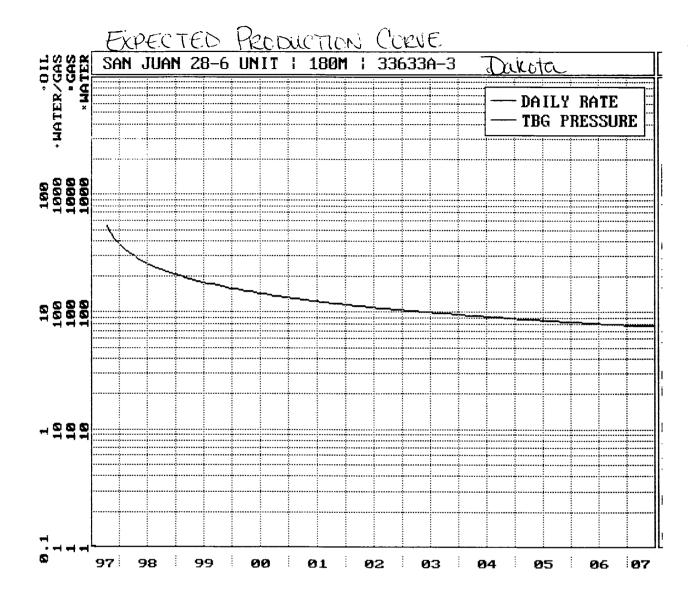
AMENDED REPOR

Form C-

'API	Number	W		Pool Code	N AND A	CREAGE DED	ICAI	ION PL		· - · ·	
30-039-				7159	0 17.				-	_	
'Property Cod	B		<u> / 2 J I 3</u>		*Property	<u>inco Mesave</u> y Name 28-6 UNIT	rde/	Basin	ракот	We	11 Number 180M
7462 'OGRID No.				*Operator Name					*Elevation		
14538		В	JRLIN			S OIL & GAS	S CO	MPANY			5287 .
UL or lot no. See	ction T	Township i R	270)	Lot Ion	Surface	Location	·				County
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UL or lot no. i See	ctaon 3	11 Bot	tom H		cation I						
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Dedicated Acres	LO	bint or Infill	^{SA} Consolar	setion Code	²⁵ Order No.	<u> </u>					
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		UH A NO	N-STAI	NDARD U	NIT HAS B	EEN APPROVED	BY T	HE DIVI	SION		
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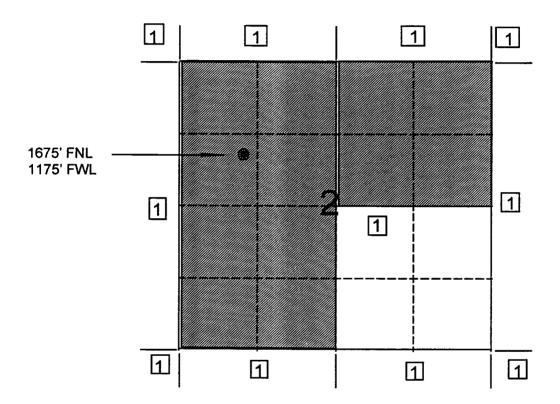


BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 28-6 Unit #180M 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

SJ 28-6 Unit #180M

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 0.719 COND. OR MISC. (C/M) C %N2 0.44 %CO2 0.774 %H2S 0 DIAMETER (IN) 1.23 DEPTH (FT) 5616 SURFACE TEMPERATURE (DEG F) 60 BOTTOMHOLE TEMPERATURE (DEG F) 137 FLOWRATE (MCFPD) 0 SURFACE PRESSURE (PSIA) 620 BOTTOMHOLE PRESSURE (PSIA) 722.5	GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 1.28 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 958.5			
<u>MV-Original</u>	<u>DK-Original</u>			
GAS GRAVITY COND. OR MISC. (C/M) %N2 0.44 %CO2 0.74 %H2S 0 DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) SURFACE PRESSURE (PSIA) 1077 BOTTOMHOLE PRESSURE (PSIA) 1272.5	GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 1.28 %H2S 0 DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 3207.9			

Q:\AREA\IMVPUD\COMGLS\BHP xis

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Print Time: Mon Aug 25 11:00:47 1997

Property ID: 4086

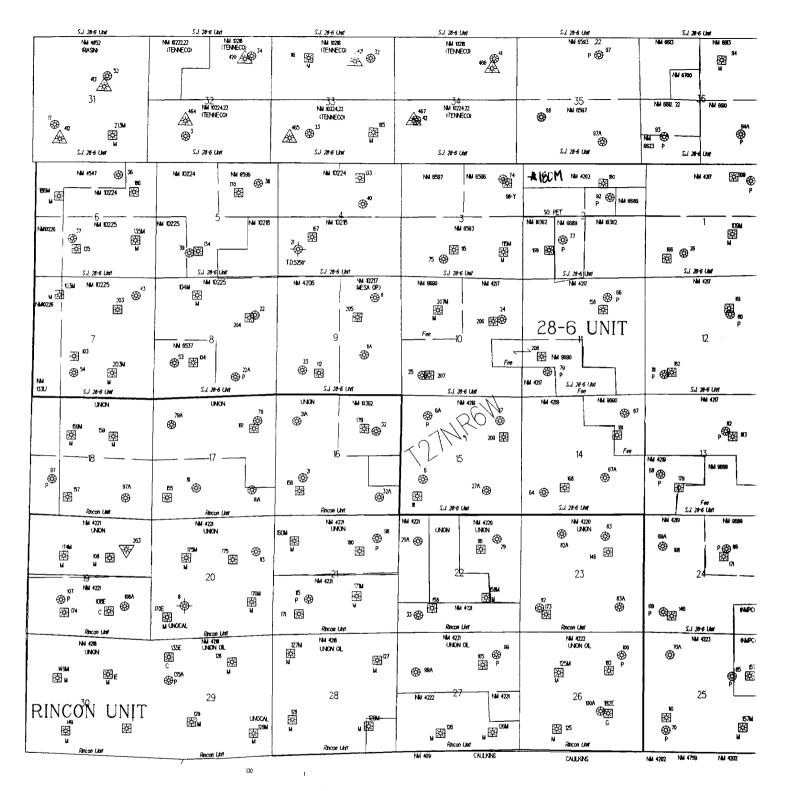
Property Name: SAN JUAN 28-6 UNIT | 88 | 50188A-1 JUAN ZE-6 UNIT Table Name: K:\ARIES\RR98PDP\TEST.DBF #18019 Mesaverde Offset

DATE	CUM_GAS	M SIWHP	
DATE 07/30/58 10/13/58 06/14/59 06/14/60 06/13/61 05/29/62 05/09/63 05/20/64 09/08/65 04/12/66 03/22/67	CUM_GAS Mcf: 0 0 39000 145000 186000 254000 335000 414000 490000 518000 557000	Psi	-original
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Page No.: 5

Print Time: Mon Aug 25 11:00:48 1997

Property ID: 1878	VAN 28-6 UNIT 169 ES\RR98PDP\TEST.DBF	44069A-1 San Juan 28-6 Unit
DATECUM_GAS		#180 M
08/01/72 1061	. 2677.0 - CY : 1a	Dakola Offset
09/19/72 22585		
08/29/73 88975	1037.0	
07/15/74 130382	957.0	
09/04/75 176793	7 7 5.0	
06/08/77 233154	619.0	
06/06/79 284961	662.0	
11/18/85 409617	629.0	
09/29/92 518234	810.0 - Current	



San Juan 28-6 Unit #180M Mesverde / Dakota 27N-06W-02 E

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.