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

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 _x.NO

urlington Resources Oil & C			PO Box 4289, Farmington, NM 87499			
erator AN JUAN 28-6 UNIT	141M	D 36-28N-6W	Rio Arriba			
10	Well No. Unit	Ltr Sec - Twp - Rge Speci	County ing Unit Lease Types: (check 1 or more)			
RID NO14538 Property C	Code7462 API NO30	0-039-25743 Federal	X, State _X, (and/or) Fee			
he following facts are submitted a support of downhole ommingling:	Upper Zone	Intermediate Zone				
. Pool Name and Pool Code	Blanco Mesaverde - 72319		Basin Dakota - 71599			
2. Top and Bottom of Pay Section (Perforations)	will be supplied upon completion	DECEIVE	will be supplied upon completion			
3. Type of production (Oil or Gas)	gas	11 OCT - 7 1997	U gas			
4. Method of Production (Flowing or Artificial Lift)	flowing	an 200 Di	flowing			
5. Bottomhole Pressure Oil Zones - Artificial Lift:	(Current) a. 461 psi (see attachment)		a. 941 psi (see attachment)			
Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones:	(Original) b. 1264 psi (see attachment)	b.	b. 3132 psi (see attachment)			
Estimated or Measured Original 6. Oil Gravity (°API) or Gas BTÜ Content	BTU 999		BTU 1070			
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/s Rates:			
8. Fixed Percentage Allocation	Oil: Gas:	Oil: Gas:	Oil: Gas: %			
Formula -% for each zone (total of %'s to equal 100%)	will be supplied upon completion		will be supplied upon completion			
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%) 9. If allocation formula is based attachments with supporting	Rates: Oil: Gas: % will be supplied upon completion upon something other than codata and/or explaining method	Rates: Oil: % Gas: % urrent or past production, o and providing rate projection	Rates: Oil: % Gas: % will be supplied upon completion r is based upon some other methons or other required data.			
production be recovered, and	will the allocation formula be	reliablex YesNo	(If No, attach explanation)			
2. Are all produced fluids from a						
3. Will the value of production be	e decreased by commingling? zed with, state or federal land:	tes _a_ NO (IT tes, at s, either the Commissioner of	tach explanation) f Public Lands or the United States E			
Land Management has been no	otified in writing of this applica	tionXYes No				
5. NMOCD Reference Cases for I						
6. ATTACHMENTS: * C-102 for each zone * Production curve for * For zones with no p * Data to support allo * Notification list of a * Notification list of a * Any additional state	e to be commingled showing its or each zone for at least one ye roduction history, estimated pro- cation method or formula. ill offset operators. vorking, overriding, and royalty ements, data, or documents rec	spacing unit and acreage de ar. (If not available, attach e roduction rates and supporti r interests for uncommon inte quired to support comminglin	edication. xplanation.) ng data. erest cases. g.			
I hereby certify that the infor	mation above is true and o	complete to the best of m	y knowledge and belief.			
SIGNATURE Sean Wa	herton_TITLE_PI	oduction Engineer	_DATE10/02/97			
	O Washington TEL	EDUONE NO. (505) 31	26-9700			

District i PO Box 1986, Hobbs, NM 88241-1986 District ii PO Drawer DD, Artena, NM 88211-0719 District iii 1000 Rio Brazos Rd., Aztec, NM 87410 District iV

State of New Mexico Energy, Minerals & Natural Resources Department

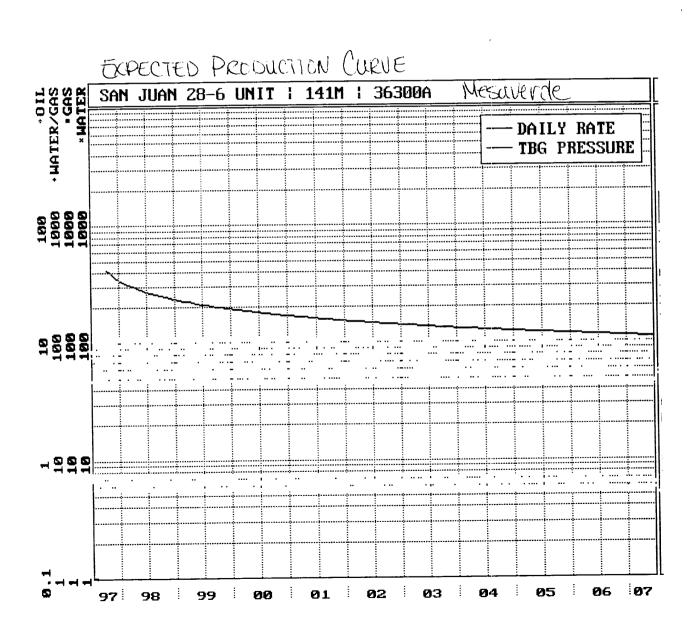
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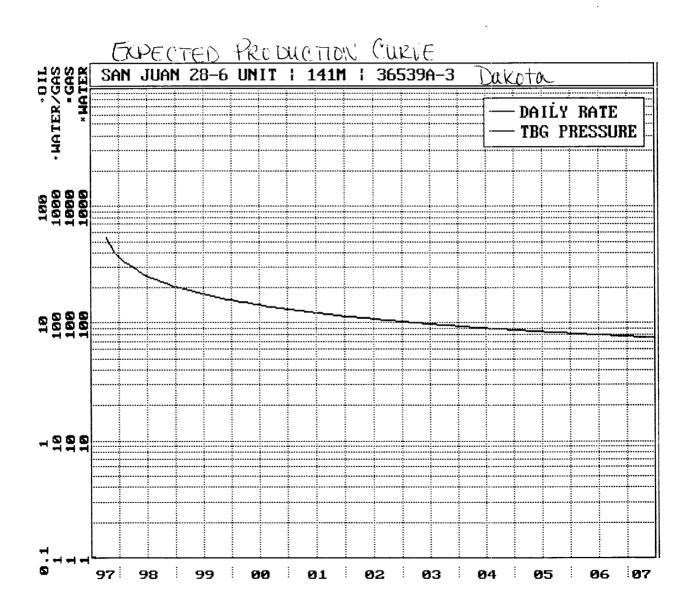
Form C-102 Revised February 21, 1994 Instructions on back

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

District IV PO Box 2088, San	ita Fe, NM	87504-20 88						1	□ АМЕ	ENDED REPORT
		WE	LL LO	CATION	N AND AC	REAGE DEDI	CATION	PLAT		
API Number			1 Pool Code	Pool Code Pool Name						
30-039- 72319				19/715	/71599 Blanco Mesaverde/Basin Dakota					
' Property	* Property Code				, Stober	ty Name		- [· Well Number	
7462	Y2			San Juan 28-6 Unit				<u> </u>		141M
14538 BURLINGT				TON R	Operator Name ON RESOURCES OIL & GAS COM			Y		6554'
	 					e Location				
UL or lot se.	Section	Township	Range	Lot ide	Feet from the	North/South line	Feet from		Vent line	County
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		,		,-	e Location	If Different Fr				
UL or lot so.	Section	Townsip	Range	Lot Ida	Feet from the	North/South line	Feet from	the East/V	Vest üne	County
	<u> </u>			1			<u> </u>			
MV-W/32	21	er initial i " (Conscidentis	a Code " (Order No.					
DK-W/32	1 21							70 17 1 1 7 7	SEEVI OF	201001 TD 1 TTD
NO ALLO	WABLE					TION UNTIL ALL BEEN APPROVED			SEEN CO	DNSOLIDATED
23/1.68'		NM 803	-E)-21	36			Signa Pe Prints Re Title Date 1150 / Acres 1	upre ggy Brac d Name gulator URVEYO by carefy that the leased from field that my speries at to the best of the	dfiel y Adm R CER se well locate as and the asy belief.	inistrator
NM 4		0797	34 3		2	1		nore and Scal of	NAN	EDWARDS METICO Section S



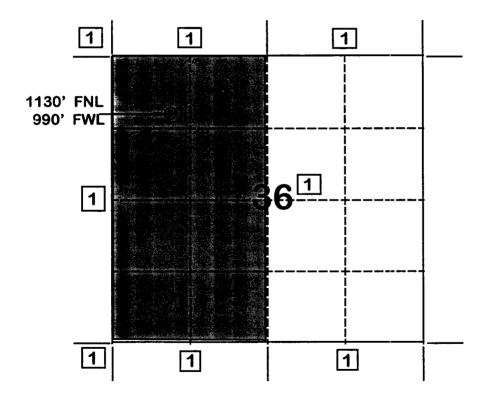


BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 28-6 Unit #141M OFFSET OPERATOR \ OWNER PLAT

Mesaverde / Dakota Formations Commingle Well

Township 28 North, Range 6 West



1) Burlington Resources Oil and Gas Company

SJ 28-6 Unit #141M

Bottom Hole Pressures Flowing and Static BHP Cullender and Smith Method Version 1.0 3/13/94

Mesaverde	Dakota <u>DK-Current</u>				
MV-Current					
GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 1.85 %H2S 0 DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 461.3	COND. OR MISC. (C/M) %N2 %CO2 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA)	625 C 0.3 1.19 0 1.5 793 60 198 0 792			
MV-Original	<u>DK-Original</u>				
GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 1.85 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) SURFACE PRESSURE (PSIA) DIAMETER (PSIA) 1112 BOTTOMHOLE PRESSURE (PSIA)	COND. OR MISC. (C/M) %N2 %CO2 1 %H2S DIAMETER (IN) DEPTH (FT) 7 SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) 2	.625 C 0.3 1.19 0 1.5 793 60 198 0 2600			

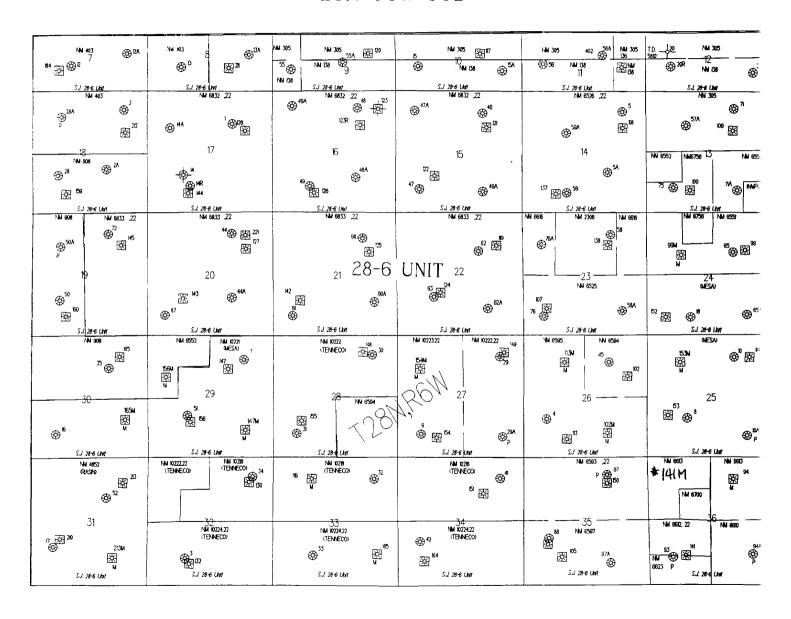
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Property Name: SAN JUAN 28-6 UNIT | 97 | 53449B-1
                                                San Juan 28-6 Unit
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Page No.: 5 Print Time: Wed Aug 20 11:26:36 1997 Property ID: 1861 Property Name: SAN JUAN 28-6 UNIT | 150 | 52360A-1 San Juan 28-6 Unit Table Name: K:\ARIES\RR98PDP\TEST.DBF --DATE-- ---CUM GAS-- M SIWHP Mcf. Psi Dakota Offset 2600.0-original 05/11/70 12/28/70 61355 1480.0 10/19/71 157406 1130.0 05/22/72 201749 1052.0 08/21/73 285814 946.0 06/24/75 889.0 400907 08/08/77 515235 881.0 04/24/79 860.0 595681 09/29/81 689753 1030.0 09/22/83 738508 1014.0 06/07/85 794689 824.0 05/12/88 879454 944.0 06/08/90 992.0 945098 792.0-Current 08/06/92 1006829

San Juan 28-6 Unit #141M Mesaverde / Dakota 28N-06W-36D



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 commungling 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.