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ABOVE THIS LINE FOR DIVISION LISE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -



ADMINISTRATIVE APPLICATION COVERSHEET	
THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGUL	ATIONS
Application Acronyms: [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Respon	
[1] TYPE OF APPLICATION - Check Those Which Apply for [A] [A] Location - Spacing Unit - Directional Drilling NSL NSP DD SD Check One Only for [B] and [C] [B] Commingling - Storage - Measurement X DHC CTB PLC PC OLS OLM [C] Injection Disposed Processor Enhanced Oil Pagewery	A CONTRACTOR OF THE PROPERTY O
[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD IPI EOR PPR	
[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply	7
[A] Working, Royalty or Overriding Royalty Interest Owners	
[B] Offset Operators, Leaseholders or Surface Owner	
[C] Application is One Which Requires Published Legal Notice	
[D] X Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office	
[E] For all of the above, Proof of Notification or Publication is Attached, and	¹/or,
[F] Waivers are Attached	
[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understand	ing
I hereby certify that I, or personnel under my supervision, have read and complied with all appli-	cable

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.	
Peggy Cole Regulatory/Compliance Adm	ninistrator
Print or Type Name Signature Title	Date

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
DISTRICT II
811 South First St., Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410
DISTRICT IV
2040 S. Pacheco, Santa Fe, NM 87505

TYPE OR PRINT NAME B. WAYNE FLETCHER

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 Revised August 1999 APPROVAL PROCESS:

_ Administrative ___Hearing

EXISTING WELLBORE

APPLICATION FOR DOWNHOLE COMMINGLING __X_ YES ___ NO **BURLINGTON RESOURCES OIL & GAS COMPANY** PO BOX 4289, FARMINGTON, NM 87499 Operator San Juan 28-6 Unit 113 N 26-28N-06W RIO ARRIBA Well No Unit Ltr. - Sec - Twp - Rge Spacing Unit Lease Types: (check 1 or more) _ , State OGRID NO. 14538 Property Code 7462 API NO. 30-039-07283 Federal X , (and/or) Fee Intermediate Zone The following facts are submitted in support of downhole commingling: BASIN DAKOTA - 71599 BLANCO MESAVERDE - 72319 WILL BE SUPPLIED UPON COMPLETION 2. Top and Bottom of Pay Section (Perforations) WILL BE SUPPLIED UPON COMPLETION 3. Type of production (Oil or Gas) Method of Production (Flowing or Artificial Lift) **FLOWING** FLOWING a. (Current) a. (Current) 5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current 714 psi (see attachment) 1127 psi (see attachment) Gas & Oil - Flowing: Measured Current b. (Oriiginal) All Gas Zones: Estimated Or Measured Original 3235 psi (see attachment) 1285 psi (see attachment) BTU 1132 Oil Gravity (EAPI) or Gas BTU Content **BTU 1132** 7. Producing or Shut-In? SHUT-IN SHUT-IN Production Marginal? (yes or no) Date: N/A Date: N/A Date: N/A Rates: Rates Rates: If Shut-In, give date and oil/gas/ water rates of last production e: For new zones with no production history, icant shall be required to attach production nates and supporting data Date: N/A Date: N/A Date: N/A If Producing, give date andoil/gas/ water rates of recent test (within 60 days) Rates: Rates: Rates: 8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100% % %
WILL BE SUPPLIED UPON COMPLETION WILL BE SUPPLIED UPON COMPLETION WILL BE SUPPLIED UPON COMPLETION If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data. 10. Are all working, overriding, and royalty interests identical in all commingled zones? If not, have all working, overriding, and royalty interests been notified by certified mail? _ Yes __X_No _ Yes __X_No Vill cross-flow occur? __X_Yes ___ No _ If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. _X_Yes ___ No (If No, attach explanation) 11. Will cross-flow occur? 12. Are all produced fluids from all commingled zones compatible with each other? _X_ Yes ___ No 13. Will the value of production be decreased by commingling? Yes X No (If Yes, attach explanation) 14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. __X_Yes ____ No 15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). R-10696 attached 16. ATTACHMENTS * C-102 for each zone to be commingled showing its spacing unit and acreage dedication.

* Production curve for each zone for at least one year. (If not available, attach explanation.)

* For zones with no production history, estimated production rates and supporting data.

* Data to support allocation method or formula.

* Any additional statements, data, or documents required to support commingling. I hereby certify that the information above is true and complete to the best of my knowledge and belief. **SIGNATURE** TITLE PRODUCTION ENGINEER 11/29/99 DATE:

TELEPHONE NO. 505-326-9700

District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Aztec, NM 87410

PO Box 2088, Santa Fe, NM 87504-2088

District IV

State of New Mexico
Energy, Minerals & 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

☐ AMENDED REPORT

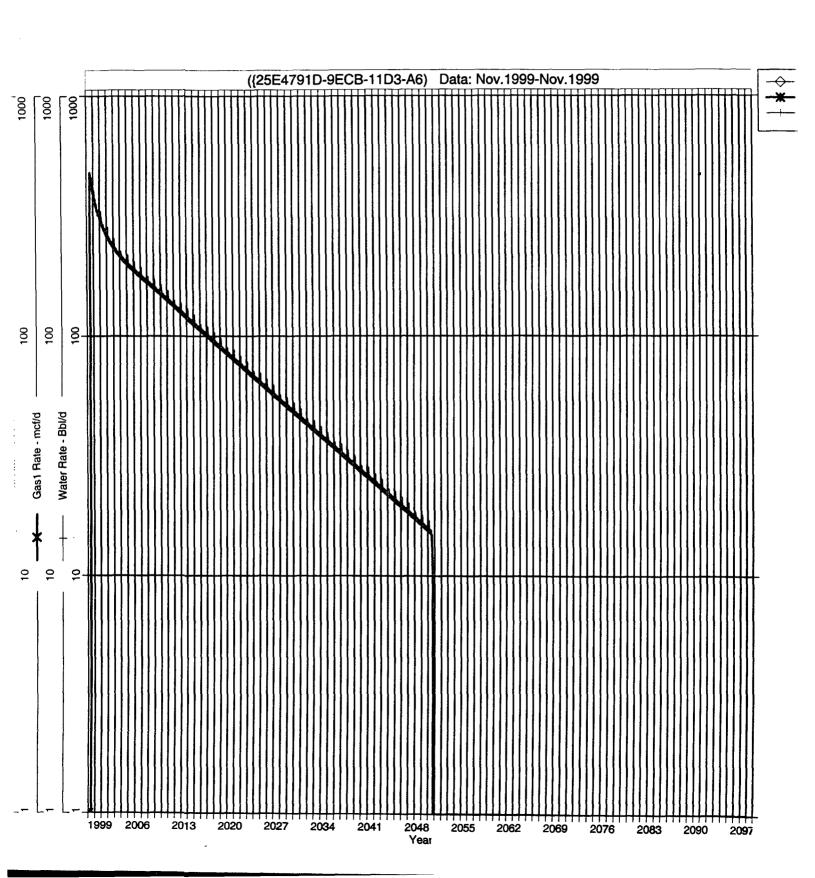
WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number			' Pool Code			Pool Name					
30-039-0	07283	7283 72319/71599				Blanco Mesaverde/Basin Dakota					
⁴ Property (Code		⁵ Property Name								Well Number
7462	1		San Juan 28-6 Unit							11.	3
'OGRID	No.				, Ot	erator	Name				' Elevation
14538	Q	R ₁	ırlin	aton F	Regnur	CES	Oil & Gas	Compai	าง	66	17' GR
	ل				10 Sur	face	Location				M
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	the	North/South line	Feet from t	he East/Wes	st line	County
N	26	28N	6W		790		South	1850	West	-	RA
			11 Bott	om Hol	e Locati	on I	f Different Fro	om Surfa	ce ·		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	the	North/South line	Feet from t	he East/Wes	st line	County
			l								
12 Dedicated Acr	es 13 Joint	or infili 14 C	onsolidatio	Code 15 C	order No.			<u> </u>			
W/320	1										
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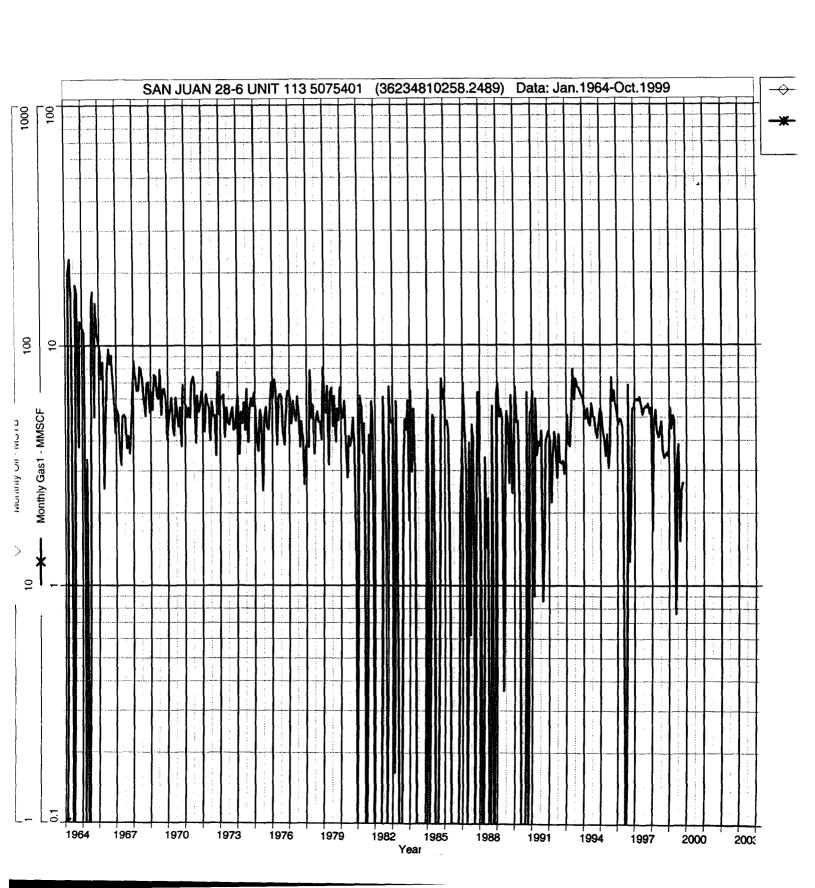
San Juan 28-6 Unit #113

Expected Production

Mesaverde Formation



San Juan 28-6 Unit #113
Actual Production
Dakota Formation



San Juan 28-6 Unit #113

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

Mesaverde	Dakota			
MV-Current	DK-Current			
GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 1.33 %H2S 0 DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 713.6	GAS GRAVITY 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) BOTTOMHOLE PRESSURE (PSIA)	0.656 C 0.41 1.31 0 2.375 7616 60 198 0 940		
MV-Original	DK-Original			
GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 1.33 %H2S 0 DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 1285.4	GAS GRAVITY 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) BOTTOMHOLE PRESSURE (PSIA)	0.656 C 0.41 1.31 0 2.375 7616 60 198 0 2667		

Page No.: 1

Print Time: Fri Nov 19 15:11:11 1999
Property ID: 1843
Property Name: SAN JUAN 28-6 UNIT | 4 | 51855A
Table Name: R:\RESERVES\GDPNOS\TEST.DBF

DATE	CUM_GAS	M_SIWHP	
***************************************	Mcf	Psi	
10/14/53	0	1105.0	San Jua
10/26/53	0	1104.0	
12/30/57	177000	873.0	Mesavero
11/06/58	232000		
06/14/59	284000		
06/14/60	349000		
06/13/61	405000		
05/29/62	448000		
05/16/63	498000		
05/26/64	547000	759.0	
03/08/65	595000		
10/21/66	692000		
11/17/67	759000		
10/10/68	809000	609.0	
08/18/69	855225	559.0	
05/25/70	899365	576.0	
05/04/71	950479	510.0	
05/22/72	1000628	533.0	
08/21/73	1061228	435.0	
07/31/74	1096721	505.0	
07/12/76	1170506	424.0	
01/07/78	1198538	453.0	
11/07/78	1207460	453.0	
10/20/86	1277003	423.0	
01/24/91	1310044		
09/04/91	1310044	342.0	
05/09/95	1418701	620.0	

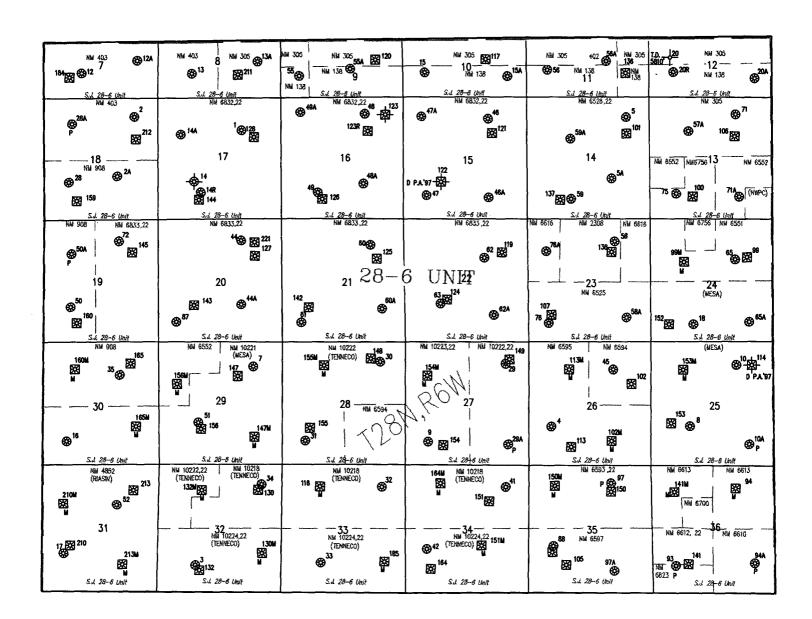
an 28-6 Unit #113

rde Offset

Page No.: 5
Print Time: Fri Nov 19 15:11:13 1999
Property ID: 1708
Property Name: SAN JUAN 28-6 UNIT | 113 | 50754A
Table Name: R:\RESERVES\GDPNOS\TEST.DBF

DATE	CUM_GAS		
10/07/63 10/30/63 10/01/64 09/08/65 04/12/66 03/22/67 04/01/68 08/19/69 05/25/70 05/22/72 08/21/73 06/24/75 08/08/77 04/24/79 09/29/81 09/22/83 11/07/85 01/07/86 10/15/88 06/08/90	178000 247000 319000 382000 494101 542382 608545 677963 757073 866668 1008401 1106719 1226002 1283949 1344595 1361852 1431430 1505898	1035.0 1250.0 1092.0 867.0 991.0 1015.0 933.0 911.0 992.0 825.0 890.0 954.0 976.0 1004.0 920.0 1052.0 1002.0	San Juan 28-6 Unit #113 Dakota Offset

San Juan 28-6 Unit #113 Mesaverde / Dakota 28N – 6W – 26N



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:

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- 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.