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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

ADMINISTRATIVE APPLICATION COVERSHEET

	THIS COVERSHE	ET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS
[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 Responsion] [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Responsion] [PPR-Positive Production Production Inferest Only Inferest Owners [PPR PPR PPR	[DD-Directional Drilling] [SD-Simultaneous Dedication] nhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] ool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]	
[1]	[A]	Location - Spacing Unit - Directional Drilling NSL NSP DD SD MAR - 3 1997
		Commingling - Storage - Measurement
	[C]	
[2]		<u> </u>
	[B]	Offset Operators, Leaseholders or Surface Owner
	[C]	☐ Application is One Which Requires Published Legal Notice
	[D]	
	[E]	☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
	[F]	☐ Waivers are Attached
[3]	INFORMAT	ION / DATA SUBMITTED IS COMPLETE - Statement of Understanding
and R admir that al	egulations of th histrative approv ll interest (WI, l	or personnel under my supervision, have read and complied with all applicable Rules to Oil Conservation Division. Further, I assert that the attached application for val is accurate and complete to the best of my knowledge and where applicable, verify RI, ORRI) is common. I understand that any omission of data, information or o have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

Print or Type Name

Print or Type Name

Signature

Regulatory/Compliance Administrator

Title

BURLINGTON RESOURCES

SAN JUAN DIVISION

February 27, 1997

SENT FEDERAL EXPRESS

Mr. William LeMay New Mexico Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505

Re:

San Juan 32-9 Unit #41A

815'FSL, 1120'FEL Section 31, T-32-N, R-9-W, San Juan County, NM

API #30-045-29129

Dear Mr. LeMay:

This is a request for administrative approval for downhole commingling the Blanco Pictured Cliffs and Blanco Mesa Verde in the subject well. This is well was originally drilled as a Pictured Cliffs/Mesa Verde dual; it is intended to commingle.

To comply with the New Mexico Oil Conservation Division rules, Burlington Resources Oil & Gas is submitting the following for your approval of this commingling:

- 1. Form C107A Application for Downhole Commingling;
- 2. C-102 plat for each zone showing its spacing unit and acreage dedication;
- 3. Production curve for Pictured Cliffs and Mesa Verde for at least one year;
- 4. Notification list of offset operators;
- 5. Shut in wellhead pressure and calculated down hole pressure;
- 6. Nine-section plats for the Mesa Verde and Pictured Cliffs

Notification of Mesa Verde and Dakota interest owners is covered under Order #R-10692 issued November 1, 1996 attached.

We will consult with the Supervisor of the Aztec District Office of the New Mexico Oil Conservation Division to establish an allocation formula.

Please let me know if you require additional data.

Sincerely,

Peggy Bradfield Regulatory/Compliance Administrator encs.

xc:

Bureau of Land Management

DISTRICT I

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107-A New 3-12-96

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

OIL CONSERVATION DIVISION

APPROVAL PROCESS :

DISTRICT II

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

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

X Administrative ___Hearing

DISTRICT III

1000 RIO Brazos Rd, Aztec, NM 87410-1693 APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE _x_ YES ___ NO

Burlington Resources Oil & (87499	Gas Company		PO Box	4289,	Farmington,	NM ·
Operator	740	Address			ATT	
San Juan 32-9 Unit	41A 1	P 31-32-9	Sa	n Juan		
L0856		Unit Ltr Sec - Twp - Rge			(check 1 or more)	
OGRID NO14538 Property C	Code7473 API NO30)-045-29129Federal> 	k, State	, (and/or) Fee	2000000000
The following facts are submitted in support of downhole commingling:	Upper Zone	Intermedi Zone			Lower Zone	
Pool Name and Pool Code	Blanco Pic.Cliffs - 72359			Blanco Mes	sa Verde - 72319	
Top and Bottom of Pay Section (Perforations)	3611-3717'		-	5166-6224		
Type of production (Oil or Gas)	gas			gas		
4. Method of Production (Flowing or Artificial Lift)	flowing			flowing	. , , , , , , , , , , , , , , , , , , ,	
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	(Current) a. 604 psi from offset well (see attachment)	a.		a. 423 psi (see attach	from offset well	
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. 874 psi from offset well (see attachment)	b.			i from offset well	
6. Oil Gravity (OAPI) or Gas BTU Content	BTU 1126			(see attact BTU 1155	nment)	
7. Producing or Shut-In?	producing		}	producing		
Production Marginal? (yes or no)	yes			no		
* 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: 12-96 Rates: 211 mcfd; 0.4 bopd	Date: Rates:		Date: 12-96 Rates: 230 n	nefd; 1.4 bopd	
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: Gas: %	Oil: % Gas: %	6	Oil: %	Gas: % lied upon completion	
9. If allocation formula is based u attachments with supporting d 10. Are all working, overriding, and If not, have all working, overrid Have all offset operators been	l royalty interests identical ling, and royalty interests b given written notice of the	in all commingled zones een notified by certified proposed downhole com	? mail? mingling?	Yes _x_Yes	esxNo _xNo No	
11. Will cross-flow occur? _x_ Y production be recovered, and	will the allocation formula t	oe reliablex Yes _	No (If No,	attach exp	, will any cross- lanation)	llowed
12. Are all produced fluids from all 13. Will the value of production be				_		
14. If this well is on, or communit Bureau of Land Management ha		•		•	or the United	State
15. NMOCD Reference Cases for Ri						
* Froduction curve for * For zones with no pro * Data to support alloc * Notification list of all	to be commingled showing each zone for at least one oduction history, estimated eation method or formula. offset operators. orking, overriding, and royaments, data, or documents.	year. (If not available, at production rates and su	ttach explanat ipporting data	tìon.) I.		
hereby certify that the infor	mation above is true an	d complete to the be	est of my kno	owledge :	and belief.	
SIGNATURE Mary Ellen	LutyTITLE_	Production Enginee	rDA	TE2/1	7/97	
TYPE OR PRINT NAMEMar	/ Ellen Lutey TEL	EPHONE NO. (505	5) 326-97(00		

State of New Mexico Energy, Minerais and Namrai Resources Department

DISTRICT! P.O. Box 1980, Hobbs, NM 82240

Sama Fe, New Mexico 87504-2088

OIL CONSERVATION DIVISION P.O. Box 2088

7:1 3: 27

DISTRICT III

DISTRICT II P.O. Dizwer DD. Anems, NM 88210

WELL LOCATION AND ACREAGE DEDICATION PLAT

				the quar councience of the	10000	
MERIDI	AN OII	_ INC.		SAN JUAN 32-	-9 UNIT	41 —A
P	31	Towns	NORTH		Con	SAN JUAN
corado Focação			NORTH		NMPM !	
	et from th		time and	1120	feet from the	EAST lize
65 '	1	Mesa Verde/Pi	- 01:55-	Blanco /Blanco		309 . 21 A
i. Ostine ti	e acrespo	edicated to the approx w	4 by colores pascal or	became antitis on the pire bet	.	
3. If more the substitution of the substitutio	nn cas ica L (cass-par (ca	m of different ownstain thing, etc.?	is dedicated to the well naver as "yes" type of	ify the ownstakle thread (both, have the interest of all owner constitution <u>uniti</u>	zation	
this form if a No allowest	e will be a		L interests have been o	resolidated (b7 community	ne, umantimos, foro	
36	6.96'	1287.00		2574.00'		PERATOR CERTIFICATION CONTROL OF
	8	7	6	5	Signan Pegg Primas	my bradfield Name Representation
	9	10	11	12	Position Meri Compa	dian Oil Inc.
		SEC.	31 <i>USA</i>	SF-078509	9-	IRVEYOR CERTIFICA
5186.28	16	15	14	13	Correct belief.	ty carefy that the well lead a piet was pieted from fix surveys made by me or the contract of my and 3/25/94
					1 30	Surveyor Surveyor

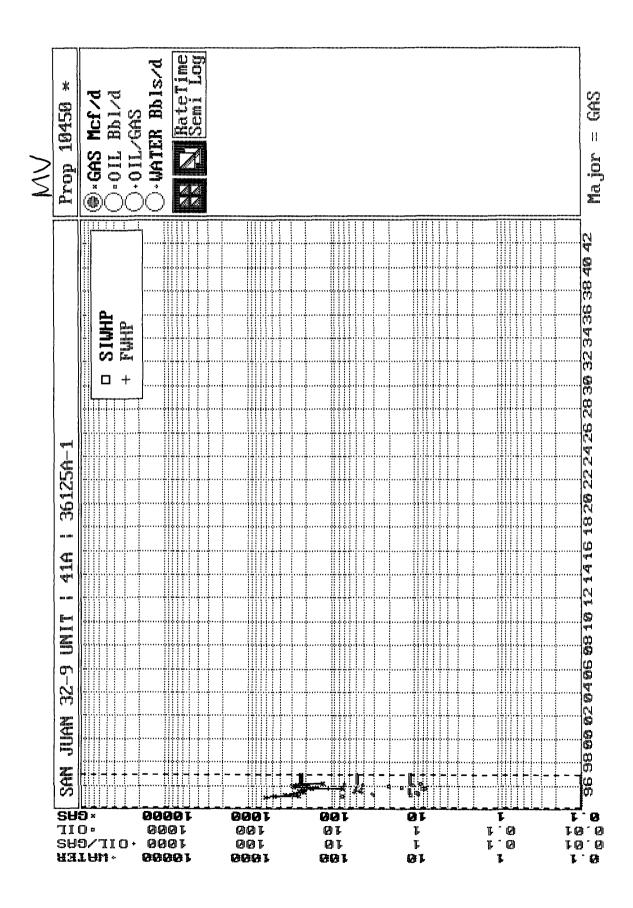
281.16"

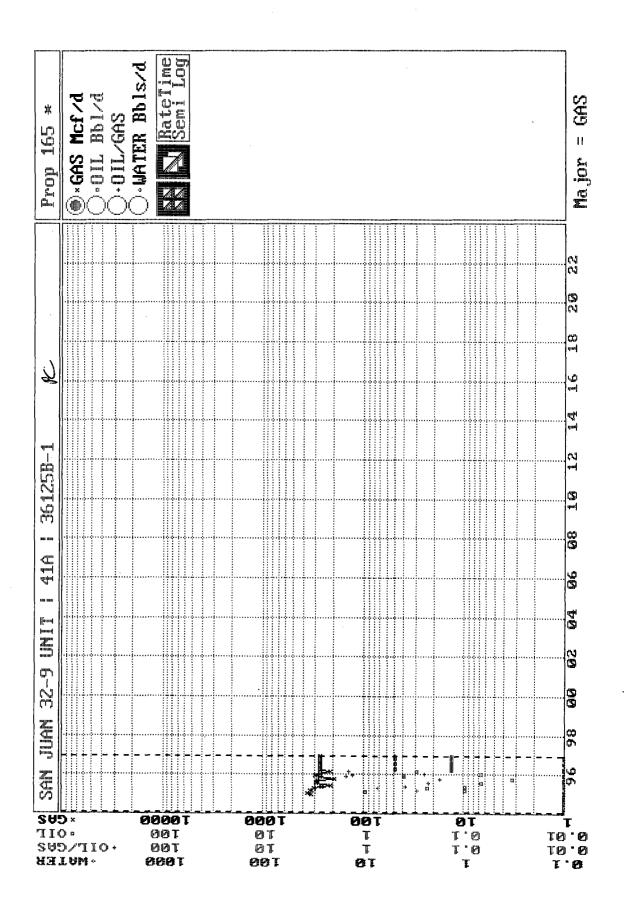
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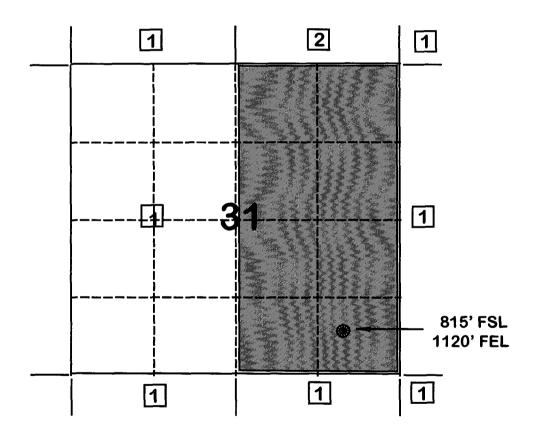


BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 32-9 Unit #41A OFFSET OPERATOR \ OWNER PLAT

Mesaverde (E/2)/Pictured Cliffs (SE/4) Formations Commingle Well

Township 32 North, Range 9 West



- 1) Burlington Resources Oil and Gas Company Successor to Meridian Oil Inc.
- 2) Amoco Production Company

Attn: Bruce Zimney

P.O. Box 800

Denver, CO 80201

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION to 3/13/94

GAS GRAVITY	0.67
COND. OR MISC. (C/M)	С
%N2	0.15
%CO2	1.67
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	6250
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	365
BOTTOMHOLE PRESSURE (PSIA)	423.1

SAN JUAN 32-9 UNIT #41A MESAVERDE - (CURRENT)

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.67
COND. OR MISC. (C/M)	С
%N2	0.15
%CO2	1.67
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	6250
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1082
BOTTOMHOLE PRESSURE (PSIA)	1276.7

SAN JUAN 32-9 UNIT #41A MESAVERDE - (ORIGINAL)

MV OFFSET

Organize Data ScreenGraph Economics Report Plot Utility Quit Browsing: SAN JUAN 32-9 UNIT | 7 | 69845-1 Property No.: 4861
Table(T): TEST/M,P,H,E,T,Z,C,A,O,D,N,1,2,3,B,U,S Rec: 1/34/103224

Item: 2/3/33 Name: DATE Type: Date Len: 8/27/203

DATE	CUM_GAS	M_SIWHP
	Mcf	Psi
10/01/53	. 0	1082.0
07/23/54	48000	898.0
09/08/55	106000	857.0
12/07/56	216000	779.0
01/23/58	376000	729.0
09/22/58	446000	786.0
12/06/58	461000	749.0
09/14/59	538000	792.0
05/14/60	602000	761.0
09/28/61	717000	766.0
06/18/62	786000	736.0
01/04/63	827000	676.0
10/29/64	946000	711.0
05/25/65	997000	713.0
10/11/66	1103000	722.0

F1=Help F3=PrvPro F5=PrvTbl F7=Calcu F9=Utils Alt+TableLtr=Change Table F2=Jump F4=NxtPro F6=NxtTbl F8=Print F10=Exit Shift+<-->=Fast Tbl R & L

Organize Data ScreenGraph Economics Report Plot Utility Quit Browsing: SAN JUAN 32-9 UNIT | 7 | 69845-1 Property No.: 4861 Table(T): TEST/M,P,H,E,T,Z,C,A,O,D,N,1,2,3,B,U,S Rec: 34/34/103224 Item: 2/3/33 Name: DATE Type: Date Len: 8/27/203

DATE	CUM_GAS	
	Mcf	Psi
06/11/71	1533027	621.0
06/29/72	1647297	571.0
05/23/73	1750504	535.0
04/16/74	1847413	542.0
05/07/76	2086673	529.0
04/11/78	2271543	524.0
06/03/80	2457904	513.0
06/03/82	2580779	543.0
07/19/84	2664836	5 71. 0
04/28/86	2740651	472.0
09/13/89	2935003	462.0
03/18/91	2990448	432.0
04/08/91	3010020	444.0
07/29/93	3096589	377.0
08/15/93	3103027	365.0

F1=Help F3=PrvPro F5=PrvTbl F7=Calcu F9=Utils Alt+TableLtr=Change Table F2=Jump F4=NxtPro F6=NxtTbl F8=Print F10=Exit Shift+<-->=Fast Tbl R & L

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION to 3/13/94

GAS GRAVITY	0.66
COND. OR MISC. (C/M)	С
%N2	0.14
%CO2	2.09
%H2S	0
DIAMETER (IN)	1.25
DEPTH (FT)	6250
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	110
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	517
BOTTOMHOLE PRESSURE (PSIA)	604.0

SAN JUAN 32-9 UNIT #41A PICTURED CLIFFS - (CURRENT)

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.66
COND. OR MISC. (C/M)	С
%N2	0.14
%CO2	2.09
%H2S	0
DIAMETER (IN)	1.25
DEPTH (FT)	6250
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	110
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	743
BOTTOMHOLE PRESSURE (PSIA)	873.7

SAN JUAN 32-9 UNIT #41A PICTURED CLIFFS - (ORIGINAL)

PHS030M1

1996 MONTHLY PRODUCTION FOR 36125A FARMINGTON

SAN JUAN 32-9 UNIT 41A

BLANCO MESAVERDE (PRORATED GAS FIELD MESAVERDE ZONE

			DAYS	=====	OIL =	======	====	=======	GAS	=====	======			
MO	Т	S	ON	PC	PRO	O GRV	PC	PROI	ON	BTU	PRESS	WATER	PROD	С
1	2	F	31	02	3.	2	01	7733	31	1134	15.025			
2	2	F	29	02	2	6 [*]	01	3770	29	1134	15.025	•		
3	2	F	26	02	2	7	01	8556	26	1105	15.025			
4	2	F	30	02	5	3 41.2	01	7973	3 0	1114	15.025			
5	2	F	29	02	. 1	0	01	6143	L 29	1134	15.025			
6	2	F	30	02	1	3	01	4843	3 0	1130	15.025			
7	2	F	31	02	5	2	01	357!	31	1128	15.025			
8	2	F	31	02	2	0 46.5	01	3862	31	1128	15.025			
9	2	F	24	02	2	0	01	2692	24	1128	15.025			
10	2	F	31	02	2	3	01	577	31	1128	15.025			
11	2	F	30	02	4	6	01	606!	30	1117	15.025	•		
12	2	F	31	02 1.4	BOPD 4	2	012	30 MCF 10713	31	1117	15.025			

PF10 - HELP INFORMATION

PF6 - RETURNS TO ANNUAL DISPLAY PF3 - TRANSFER TO UPDATE
PF10 - HELP INFORMATION PF9 - DISPLAY MONTHLY INJECTION
00/00/00 00:00:00:0 PRS 02/05/97

B MY JOB

NUM LU #14

FARMINGTON FARMINGTON 1996 MONTHLY PRODUCTION FOR 36125B PHS030M1 SAN JUAN 32-9 UNIT 41A BLANCO PICTURED CLIFFS (GAS) FIELD PICTURED CLIFFS ZONE DAYS ====== OIL ====== ==== GAS ========= ON PC PROD GRV PC PROD ON BTU PRESS WATER PROD C MO T S 2 01 01 8139 31 1106 15.025 1 2 F 31 02 2 2 F 29 02 9 1106 15.025 6473 29 3 2 F 31 02 33 57.9 01 10558 31 1106 15.025 9 01 4 2 F 30 02 9043 30 1106 15.025 5 **2** F 27 02 6609 27 6061 30 1173 15.025 4 01 6 2 F 30 02 9 01 1173 15.025 7 2 F 10 67.1 01 31 02 5434 31 1167 15.025 01 01 01 4739 2647 8 2 F 26 02 26 1167 15.025 4 9 **2** F 24 02 1167 15.025 6 24 6295 10 2 F 31 02 3 31 1167 15.025 11 2 F 30 02 17 01 5901 30 1120 15.025 12 2 F 31 02 0.4 BO8 D 12 01 JIM 0 05 0545 31 1120 15.025

PF6 - RETURNS TO ANNUAL DISPLAY

PF3 - TRANSFER TO UPDATE

PF10 - HELP INFORMATION

PF9 - DISPLAY MONTHLY INJECTION

00/00/00 00:00:00:0 PRS 02/05/97

B MY JOB

NUM LU #14

SAN JUAN 32-9 UNIT #41A SECTION 31, T32N, R09W MESAVERDE - PICTURED CLIFFS

	(VERDE TROTORIES O		
NM 928 \$50	NM929	NM929 NM10310	
25	30 AMOCO 2 IsaberA (P)	29	
S.J. 32-9 Unit	Isabel'A'(P) 40 S.J. 32-9 Unit N.P.	51 1R S.J.32-9 Unit Tank Min. M-F	РВ
NM 236 NM10307 NM 9165 29A NM 9165 NM103C	32A NM 929 41	NM 926 NM 4800 (TEXAC	(0)
36 (NWPC	31	7A NM 236 37 32	
30A NM 236 (NM 236	32R 32 TD 6052	7 ⊗ 020390-T	
S.J. 32-9 Unit 26A NM 928	S.J. 32-9 Unit	S.J. 32-9 Unit	_
3 \$\infty\text{1.50}	NM 929 33A	NM 929 NM10306 .22 24 24	_
1 26 115 A	6 NM 10305 A-B,22	NM 10305A-B, 22	}
S.J. 32-9 Unit	S.J. 32-9 Unit	23 (24A) NM 929 (S.J. 32-9 Unit	
R-10-W	R-	09-W	

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. 11601 ORDER NO. R-10692

APPLICATION OF BURLINGTON RESOURCES
OIL & GAS COMPANY FOR THE ESTABLISHMENT
OF A DOWNHOLE COMMINGLING "REFERENCE
CASE" 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 August 22, 1996, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this 1st 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 and Pictured Cliffs gas production within existing or future drilled wells within the San Juan 32-9 Unit, San Juan County, New Mexico.
- (3) Division Rule No. 303.E., amended by Order No. R-10470-A, currently states:

CASE NO. 11601 Order No. R-10692 Page -2-

"If sufficient data exists on a lease, pool, formation, geographic area, etc., so as to render it unnecessary to repeatedly provide such data on Form C-107-A, an operator may except any of the various criteria required under Paragraph 303.D. of this rule by establishing a "reference case". The Division, upon its own motion, or by application from an operator, may establish "reference cases" either administratively or by hearing. Upon Division approval of such "reference cases" for specific criteria, subsequent applications to downhole commingle (Form C-107-A) will be required only to cite the Division order number which established such exceptions and shall not be required to submit data for those criteria."

- (4) The applicant is the current operator of the San Juan 32-9 Unit which encompasses some 21,864 acres in Townships 31 and 32 North, Ranges 9 and 10 West, NMPM, San Juan County, New Mexico.
- (5) Within the San Juan 32-9 Unit, the applicant currently operates two (2) Basin-Dakota Gas Pool wells, one hundred twenty-eight (128) Blanco-Mesaverde Gas Pool wells and thirty-two (32) Blanco-Pictured Cliffs Gas Pool wells.
 - (6) According to its evidence and testimony, Burlington seeks to:
 - a) establish a "reference case" for marginal economic criteria in the Dakota and Pictured Cliffs formations whereby these formations and/or pools may be identified as "marginal" on Form C-107-A's subsequently filed for wells within the San Juan 32-9 Unit. The applicant further proposes that the data provided in the immediate case serve as supplemental data or confirmation that these formations and/or pools should be classified as "marginal":
 - b) establish a "reference case" for pressure criteria in the Dakota and Pictured Cliffs formations whereby the Division may utilize data provided in the immediate case to verify the pressure data provided on Form C-107-A's subsequently filed for wells within the San Juan 32-9 Unit;
 - c) 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 32-9 Unit; and,

CASE NO. 11601 Order No. R-10692 Page -3-

- d) establish a "reference case" or an administrative procedure for authorizing the downhole commingling of existing or future drilled wells within the San Juan 32-9 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 32-9 Unit:
 - a) the structure and thickness of the Dakota and Pictured Cliffs formations are very consistent;
 - b) the average recoverable Pictured Cliffs gas reserves underlying an undeveloped drill block are approximately 700 MMCFG.
 - c) initial producing rates for newly drilled or recompleted Pictured Cliffs gas wells range from 150-600 MCFGD;
 - d) the San Juan 32-9 Unit Well Nos. 113 and 114 were recently drilled to test the Dakota formation within the unit. Both wells proved non-productive in the Dakota formation; and,
 - e) 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 32-9 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 32-9 Unit, the applicant presented engineering evidence and testimony which indicates that:
 - a) the average shut-in pressure within the Pictured Cliffs formation at the time of initial development was approximately 562 psi; and,

CASE NO. 11601 Order No. R-10692 Page -4-

- b) the average current shut-in pressure within the Pictured Cliffs formation is approximately 349 psi.
- (10) The applicant did not present sufficient bottomhole pressure data within the Dakota and Pictured Cliffs formations within the San Juan 32-9 Unit so as to justify the establishment of a "reference case" for pressure criteria.
- (11) The applicant testified that various allocation methods will be utilized for downhole commingled wells within the San Juan 32-9 Unit depending on the circumstances. Some of the methods and circumstances are described as follows:
 - a) the subtraction method will likely be utilized in those instances where a zone with a well established decline rate is commingled with a newly completed zone; and,
 - b) a fixed allocation formula will be utilized in those instances where production history for both zones is available, or in those instances where newly completed zones are tested and stabilized flow rates obtained.
- (12) The allocation methods proposed by the applicant are routinely utilized by industry and approved by the Division and therefore, the proposal to except allocation formulas should be approved.
- (13) In support of its request to establish a "reference case" or administrative procedure for providing notice within the San Juan 32-9 Unit the applicant presented evidence and testimony which indicates that:
 - a) the interest ownership between two zones within a given wellbore in the San Juan 32-9 Unit is generally not common;
 - b) pursuant to Division Rule No. 303.D., applicant is currently required to notify all interest owners within the San Juan 32-9 Unit every time a Form C-107-A is submitted to the Division. There are a considerable number of such interest owners within the unit:
 - c) providing notice to each interest owner within the San Juan 32-9
 Unit of subsequent downhole comminglings is unnecessary and is
 an excessive burden on the applicant;

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- d) the downhole commingling of wells within the San Juan 32-9 Unit Area will benefit working, royalty, and overriding royalty interest owners. In addition, the downhole commingling of wells within the San Juan 32-9 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 32-9 Unit for obtaining approval for subsequently 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, 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 32-9 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) allocation formulas and (c) modification of notification rules on a unit-wide basis for downhole commingling of Dakota, Mesaverde and Pictured Cliffs gas production within existing or future drilled wells within the San Juan 32-9 Unit, San Juan County, New Mexico, is hereby approved.
- (2) The application of Burlington Resources Oil & Gas Company to establish a "reference case" for pressure criteria in the Dakota and Pictured Cliffs formation within the San Juan 32-9 Unit is hereby denied.
- (3) Upon filing of Division Form No. C-107-A's for wells subsequently downhole commingled within the San Juan 32-9 Unit Area, the applicant shall not be required to submit supporting data to justify the classification of the Pictured Cliffs and Dakota formations as "marginal" and support or justification for utilizing a given method or formula for allocation of production, provided however, in the event any of the data described above appearing on Form C-107-A appears to be beyond the data range provided in this case, the Division may require the submittal of additional supporting data.

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- (4) In order to obtain Division authorization to downhole commingle wells within the San Juan 32-9 Unit, the applicant shall file a Form C-107-A with the Santa Fe and Aztec Offices of the Division. Such application shall contain all the information required under Rule No. 303.C. of the Division Rules and Regulations, provided however that the applicant shall not be required to provide notice to all interest owners within the San Juan 32-9 Unit of such proposed commingling.
- (5) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

WILLIAM // LEMAY

SEAL