

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 87505-6429Form C-107-A
New 3-12-96

APPROVAL PROCESS :

☒ Administrative ☐ Hearing

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

☒ YES ☐ NO

BURLINGTON RESOURCES OIL & GAS COMPANY

PO Box 4289, Farmington, NM 87499

Operator

Address

Canyon Largo Unit

447

G Sec. 24, T25N, R7W

Rio Arriba

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 6886 API NO. 30-039-25480 Federal ☒ State (and/or) Fee

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Devils Fork Gallup - 17610		Basin Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	6084-6638		7046-7374
3. 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 Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Current) a. 606 psia @ 6380' (Original) b. 1917 psia @ 6380'	a. b.	a. 1783 Psia @ 7300' b. 2961 Psia @ 7300
6. Oil Gravity (°API) or Gas BTU Content	BTU 1212		BTU 1244
7. Producing or Shut-In?	Producing		Producing
Production Marginal? (yes or no)	Yes		Yes
* If Shut-In and oil/gas/water rates of last production Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data	Date: Rates:	Date: Rates:	Date: Rates:
* If Producing, give data and oil/gas/water of recent test (within 60 days)	Date: Rates: 84 MCFD 3.2 BOD 10/26/97	Date: Rates:	Date: Rates: 23 MCFD 0 BOD 10/26/97
8. Fixed Percentage Allocation Formula - % for each zone (total of %'s to equal 100%)	Oil: Gas:	Oil: Gas:	Oil: Gas:

9. 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? ☒ Yes ☐ No
If not, have all working, overriding, and royalty interests been notified by certified mail? ☒ Yes ☐ No
Have all offset operators been given written notice of the proposed downhole commingling? ☒ Yes ☐ No
11. Will cross-flow occur? ☒ 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. ☒ Yes ☐ No (If No, attach explanation)
12. Are all produced fluids from all commingled zones compatible with each other? ☒ Yes ☐ No
13. Will the value of production be decreased by commingling? ☐ Yes ☒ 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. ☒ Yes ☐ No
15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). Reference Order R-10786
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.
* Notification list of all offset operators.
* Notification list of working, overriding, and royalty interests for uncommon interest cases.
* 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 Kevin L. Midkiff TITLE Operations Engineer DATE 10/28/97TYPE OR PRINT NAME Kevin L. Midkiff TELEPHONE NO. (505) 326-9807

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Arriba Rd., Aztec, NM 87410
District IV
PO Box 1088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

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

Form
Revised February 21
Instructions c
Submit to Appropriate District
State Lease - 4
Fee Lease - 3

☐ AMENDED RI

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		Pool Code	Pool Name
		17610/71599	Devils Fork Gallup/Basin Dakota
Property Code	Property Name		Well Number
6886	Canyon Largo		447
OGRID No.	Operator Name		Elevation
14538	MERIDIAN OIL INC.		6915

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
G	24	25 N	7 W		1510	North	1615	East	R.A.

11 Bottom Hole Location if Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
E/320			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16	5196.84	1510'	1615'	17 OPERATOR CERTIFICATE
				I hereby certify that the information contained in this plat is true and complete to the best of my knowledge and belief.
				Signature Peggy Bradfield
				Printed Name Regulatory Affairs
				Title
				Date
				18 SURVEYOR CERTIFICATE
				I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made or under my supervision, and that the same is correct to the best of my belief.
				10-4-94
				Date of Survey
				Signature and Seal of Surveyor
				NEALE C. EDWARDS
				8857
				6857
				Certificate Number

5232.48

GALLUP

CANYON LARGO UNIT : 447 : 57494B-1

• OIL
• WATER/GAS
• GAS
• WATER

— TBG PRESSURE

100
100
100
1000
1000

10
100
100
100

1
10
100

0
1
1
1

96 | 97 | 98 | 99 | 00 | 01 | 02 | 03 | 04 | 05

Prop 162 *

- • WATER Bbls/d
- • GAS Mcf/d
- • WATER/GAS
- • OIL Bbl/d

RateTime
Semi Log

ANTICIPATED GALLUP
PRODUCTION PROFILE

AFTER

COMMITMENTS

Major = GAS

DAKOTA

CANYON LARGO UNIT : 447 : 57494A-1

• OIL
• WATER/GAS
• GAS
• WATER

— TBG PRESSURE

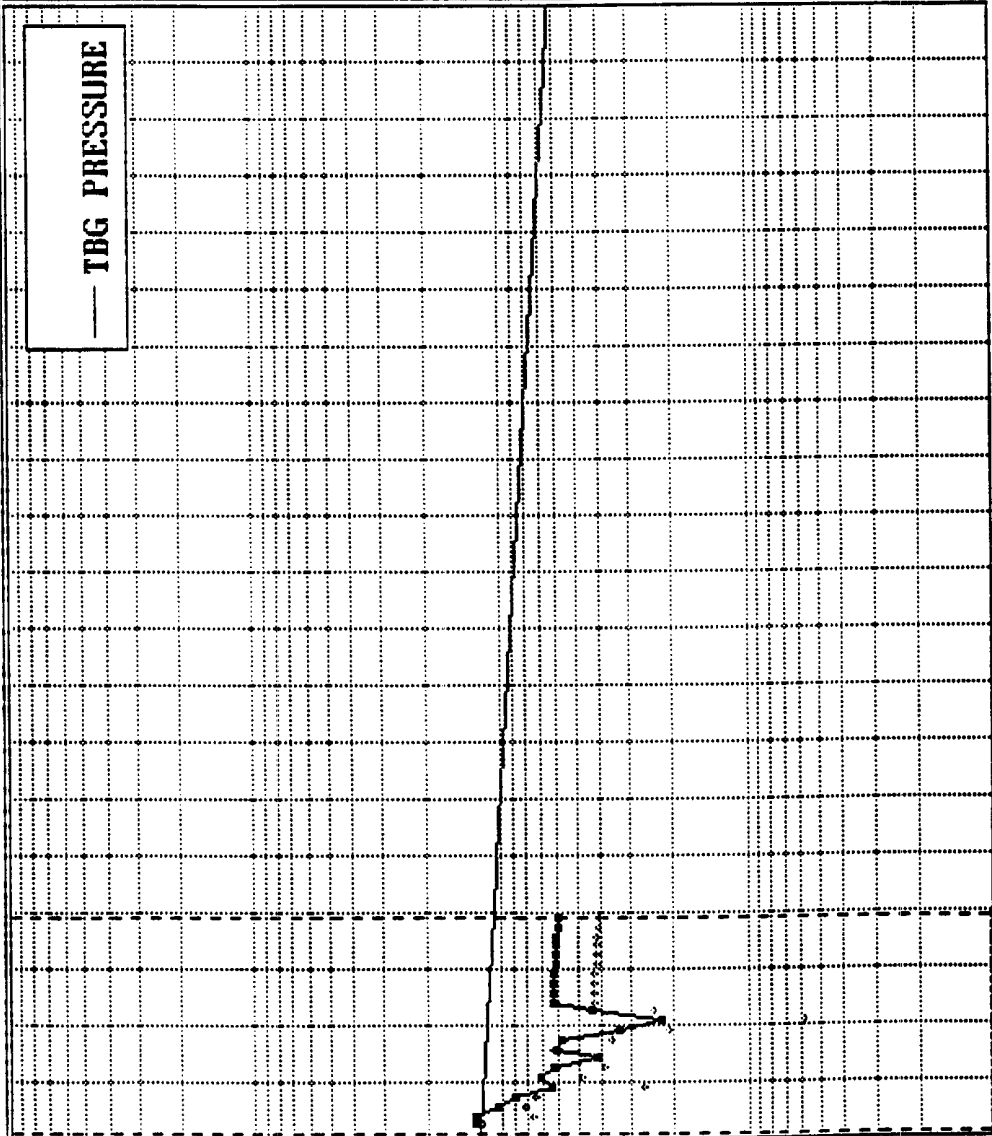
- ☐ • WATER Bbls/d
- ☒ • GAS Mcf/d
- ☐ • WATER/GAS
- ☐ • OIL Bbl/d

Rate Time
Semi Log

ANTICIPATED DAKOTA
PRODUCTION PROFILE

AFTER

COMMINGLING



• OIL
• WATER/GAS
• GAS
• WATER

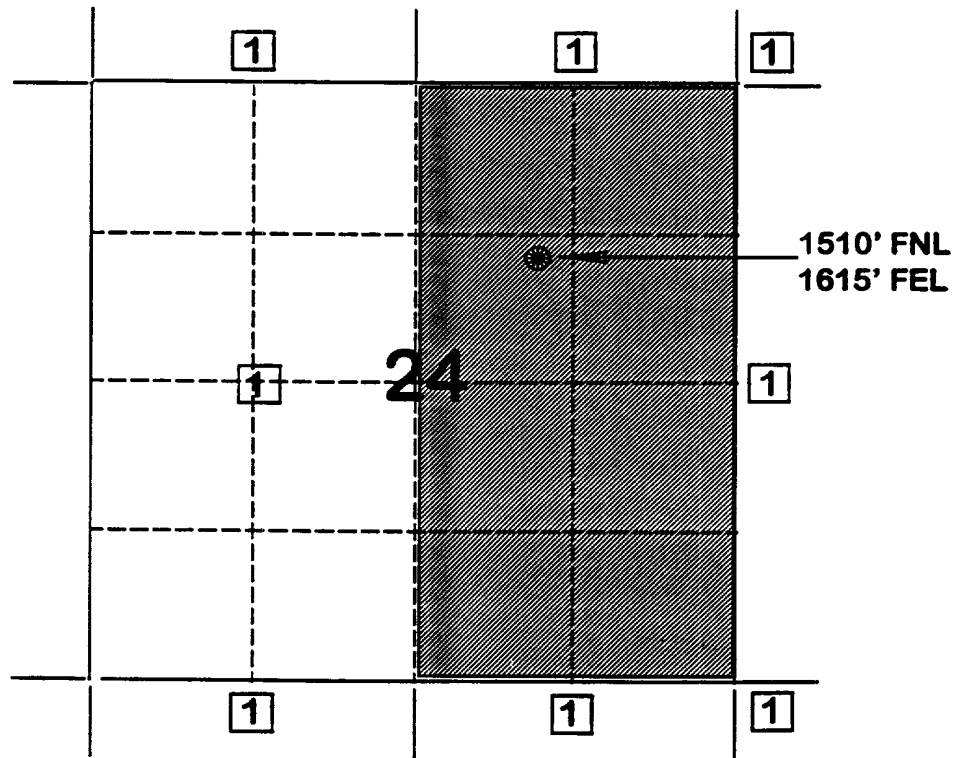
Major = GAS

BURLINGTON RESOURCES OIL AND GAS COMPANY

**Canyon Largo Unit #447
OFFSET OPERATOR \ OWNER PLAT**

Gallup/Dakota Formations Commingle Well

Township 25 North, Range 7 West



1) Burlington Resources Oil and Gas Company

TEFTELLER INC

Pressure Gradient Report

COMP : MERIDIAN OIL, INC. WELL : CANYON LARGO UNIT 447 T : 0.
 FIELD : RES : GALLUP DATUM : 6580.
 DATE : 02/08/1996 STATUS : SI HRS : 0.
 TBG : 1-1/2 DPTH : END : PKR : S N :
 CSG : DPTH : PERFS : 6084-6638 GRAD : 0.255000 T D :

Depth (ft)	Pressure (psig)	Delta P (psi)	Gradient (psi/ft)
0	1548.0		
2000	1656.0	108.0	0.0540
4000	1771.0	115.0	0.0575
5000	1829.0	58.0	0.0580
6180	1893.0	64.0	0.0542
6380 - Approx. Mid-Perf	1905.0	12.0	0.0600
6580	1956.0	51.0	0.2550
6580	1956.0	0.0	

REMARKS : CSG PRESSURE 1564

TBG PRESSURE 1548

Initial
~~6580~~ GALLUP BHP

TEFTELLER INC

Pressure Gradient Report

COMP : MERIDIAN OIL, INC. WELL : CANYON LARGO UNIT 447 T :
 FIELD : RES : DAKOTA DATUM : 730
 DATE : 02/08/1996 STATUS : SI HRS : 79
 TBG : 1-1/2 DPTH : END : PKR : S N :
 CSG : DPTH : PERFS : 7046-7374 GRAD : 0.285000 T D :

Depth (ft)	Pressure (psig)	Delta P (psi)	Gradient (psi/ft)
0	2181.0		
2000	2330.0	149.0	0.0745
4000	2478.0	148.0	0.0740
6000	2623.0	145.0	0.0725
6900	2836.0	213.0	0.2367
7100	2892.0	56.0	0.2800
7300	2949.0	57.0	0.2850
7300	2949.0	0.0	

REMARKS : CSG PRESSURE 0 (PKR)

TBG PRESSURE 2181

BHT @7300=176

Initial
~~WELL~~ DAKOTA BHP

Canyon Largo Unit No. 447
 Bottom Hole Pressures
 Flowing and Static BHP
 Cullender and Smith Method
 Version 1.0 3/13/94

Gallup		Dakota	
<u>Gallup - Current</u>		<u>DK-Current</u>	
GAS GRAVITY	0.714	GAS GRAVITY	0.73
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.69	%N2	0.58
%CO2	0.78	%CO2	0.51
%H2S	0	%H2S	0
DIAMETER (IN)	4	DIAMETER (IN)	4
DEPTH (FT)	6380	DEPTH (FT)	7300
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	146	BOTTOMHOLE TEMPERATURE (DEG F)	159
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	512	SURFACE PRESSURE (PSIA)	1412
BOTTOMHOLE PRESSURE (PSIA)	605.6	BOTTOMHOLE PRESSURE (PSIA)	1782.7

FDG055M4 375B

WELL PRODUCTION 8/8'S VOLUME

10/28/97 08:11:54

START OF DATA

DP NO: 57494B

DATE: 971026 (YYMMDD FORMAT)

CANYON LARGO UNIT

447

SCROLL FORWARD BY DATE: _

S

GALLUP

E	DATE	HOURS	-OIL PRODN-	-GAS PRODN-	-WATER PRODN-			
L	PRODUCED	ON	(BOPD	BOPM)	(MCFD	MCFM)	(BWPD	BWPM)
-	10/26/97	24.0	3.24	84.24	0	1180	0.00	0.00
-	10/25/97	24.0	3.24	81.00	0	1180	0.00	0.00
-	10/24/97	24.0	3.24	77.76	0	1180	0.00	0.00
-	10/23/97	24.0	3.24	74.52	0	1180	0.00	0.00
-	10/22/97	24.0	3.24	71.28	0	1180	0.00	0.00
-	10/21/97	24.0	3.24	68.04	0	1180	0.00	0.00
-	10/20/97	24.0	3.24	64.80	0	1180	0.00	0.00
-	10/19/97	24.0	3.24	61.56	0	1180	0.00	0.00
-	10/18/97	24.0	3.24	58.32	0	1180	0.00	0.00
-	10/17/97	24.0	3.24	55.08	0	1180	0.00	0.00
-	10/16/97	24.0	3.24	51.84	0	1180	0.00	0.00

ENTER I UNDER SEL FOR MAINTENANCE

PF12=MAIN MENU

PF6=NRI PF10=BROWSE MENU
ENTER=BACKWARDSPF11=INQ/UPDATE MENU
PF24=HELP

FDG055M4 375B

WELL PRODUCTION 8/8'S VOLUME

10/28/97 08:11:39

START OF DATA

DP NO: 57494A

DATE: 971026 (YYMMDD FORMAT)

CANYON LARGO UNIT

447

SCROLL FORWARD BY DATE: _

S

DAKOTA

E	DATE	HOURS	-OIL PRODN-	-GAS PRODN-	-WATER PRODN-		
L PRODUCED	ON	(BOPD	BOPM)	(MCFD	MCFM)	(BWPD	BWPM)

10/26/97	24.0	0.89	23.14	0	1717	0.00	0.00
10/25/97	24.0	0.89	22.25	0	1717	0.00	0.00
10/24/97	24.0	0.89	21.36	0	1717	0.00	0.00
10/23/97	24.0	0.89	20.47	0	1717	0.00	0.00
10/22/97	24.0	0.89	19.58	0	1717	0.00	0.00
10/21/97	24.0	0.89	18.69	0	1717	0.00	0.00
10/20/97	24.0	0.89	17.80	0	1717	0.00	0.00
10/19/97	24.0	0.89	16.91	0	1717	0.00	0.00
10/18/97	24.0	0.89	16.02	0	1717	0.00	0.00
10/17/97	24.0	0.89	15.13	0	1717	0.00	0.00
10/16/97	24.0	0.89	14.24	0	1717	0.00	0.00

ENTER I UNDER SEL FOR MAINTENANCE

PF12=MAIN MENU	PF6=NRI	PF10=BROWSE MENU	PF11=INQ/UPDATE MENU
	ENTER=BACKWARDS		PF24=HELP

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. 11685
ORDER NO. R-10786

APPLICATION OF BURLINGTON RESOURCES OIL & GAS COMPANY FOR
THE ESTABLISHMENT OF A DOWNHOLE COMMINGLING "REFERENCE
CASE" FOR ITS CANYON LARGO UNIT PURSUANT TO DIVISION RULE 303.E
AND THE ADOPTION OF SPECIAL ADMINISTRATIVE RULES THEREFOR,
RIO ARriba COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on January 23, 1997, at Santa Fe, New Mexico, before Examiner David R. Catnach.

NOW, on this 3rd day of April, 1997, 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, Pictured Cliffs, Chacra, Gallup and Fruitland Coal gas production within existing or future drilled wells within the Canyon Largo Unit, Rio Arriba County, New Mexico.

(3) Division Rule No. 303.E., amended by Order No. R-10470-A, currently states:

CASE NO. 11685
Order No. R-10786
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) Burlington Resources Oil & Gas Company is the current operator and Merriam Oil & Gas Corporation (Merriam) is the sub-operator of the Gallup formation within the Canyon Largo Unit which encompasses some 49,876 acres in Townships 24 and 25 North, Ranges 6 and 7 West, NMPM, Rio Arriba County, New Mexico.

(5) Within the Canyon Largo Unit, Burlington or Merriam currently operate forty-five (45) Basin-Dakota Gas Pool wells, five (5) Blanco-Mesaverde Gas Pool wells, twenty-eight (28) Otero-Chacra Gas Pool wells, fifty-nine (59) Devils Fork-Gallup Pool wells, one-hundred forty (140) Ballard-Pictured Cliffs and South Blanco-Pictured Cliffs Gas Pool wells, and zero (0) Basin-Fruitland Coal 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, Mesaverde, Pictured Cliffs, Chacra, Gallup and Fruitland Coal formations whereby these formations and/or pools may be identified as "marginal" on Form C-107-A's subsequently filed for wells within the Canyon Largo 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, Mesaverde, Pictured Cliffs, Chacra, Gallup and Fruitland Coal 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 Canyon Largo 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 Canyon Largo Unit; and,

CASE NO. 11685

Order No. R-10786

Page -3-

- d) establish a "reference case" or an administrative procedure for authorizing the downhole commingling of existing or future drilled wells within the Canyon Largo 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 indicate that within the Canyon Largo Unit:

- a) in general, the Dakota formation within the Canyon Largo unit should be marginal, however, there is potential for encountering isolated compartmentalized Dakota producing sands which may produce at non-marginal rates;
- b) although there are only a small number of Mesaverde producing wells, there is extensive geologic data regarding the Mesaverde formation within the Canyon Largo Unit. This data indicates that the Mesaverde formation presents limited opportunities within the Canyon Largo Unit and should be considered a marginal reservoir;
- c) the better Pictured Cliffs and Chacra reservoir development lies within the northeast portion of the Canyon Largo Unit. The potential for further development of the Pictured Cliffs and Chacra formations outside this area is limited and both should be considered marginal reservoirs;
- d) there is extensive Gallup development in the southern portion of the Canyon Largo Unit, however remaining potential in the Gallup formation should be considered marginal;
- e) the Basin-Fruitland Coal reservoir within the Canyon Largo Unit is in an under-pressured area of the San Juan Basin and presents limited opportunity;
- f) the average recoverable oil and gas reserves and average initial producing rates from the various formations within the Canyon Largo Unit are summarized as follows:

CASE NO. 11685
Order No. R-10786
Page 4

<u>FORMATION</u>	<u>AVERAGE ESTIMATED ULTIMATE RECOVERY</u>	<u>AVERAGE INITIAL PRODUCING RATE</u>
Dakota	987 MMCFG	196 MCFGD
Mesaverde	841 MMCFG	262 MCFGD
Pictured Cliffs	678 MMCFG	126 MCFGD
Chacra	1096 MMCFG	320 MCFGD
Gallup	501 MMCFG 44 MBO	76 MCFGD 14 BOPD
Fruitland Coal	NA	NA

(8) The evidence and testimony presented by the applicant indicate that the Dakota, Mesaverde, Pictured Cliffs, Chacra, Gallup and Fruitland Coal formations within the Canyon Largo Unit should be properly classified as "marginal".

(9) In support of its request to except pressure criteria within the Dakota, Mesaverde, Pictured Cliffs, Chacra, Gallup and Fruitland Coal formations within the Canyon Largo Unit, the applicant presented engineering evidence and testimony which indicate that the average shut-in bottomhole pressure at the time of initial development and average current shut-in bottomhole pressure within the subject formations are as follows:

<u>FORMATION</u>	<u>AVERAGE INITIAL SHUT-IN BOTTOMHOLE PRESSURE</u>	<u>AVERAGE CURRENT SHUT-IN BOTTOMHOLE PRESSURE</u>
Dakota	2754 psi	937 psi
Mesaverde	1431 psi	741 psi
Pictured Cliffs	822 psi	255 psi
Chacra	986 psi	280 psi
Gallup	NA	NA
Fruitland Coal	822 psi	822 psi

(10) There is sufficient pressure data available within the Canyon Largo Unit so as to except pressure criteria in the Dakota, Pictured Cliffs, Chacra and Gallup formations, however, there is insufficient data to except pressure criteria in the Fruitland Coal and Mesaverde formations as proposed by the applicant.

(11) The applicant testified that various allocation methods will be utilized for downhole commingled wells within the Canyon Largo 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 involving the Basin-Fruitland Coal Gas Pool and in those instances where a zone with a well established decline rate is commingled with a newly completed zone;

CASE NO. 11685**Order No. R-10786****Page -5-**

- 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 addition to the above, the applicant proposed utilizing a formula by which the production allocation may be determined by utilizing the BTU content and/or API gravity of the commingled stream.

(14) The proposed formula described in Finding No. (13) above should be used only to verify the results of production allocation derived by the methods described in Finding No. (11) above.

(15) In support of its request to establish a "reference case" or administrative procedure for providing notice within the Canyon Largo Unit the applicant presented evidence and testimony which indicate that:

- a) the interest ownership between two zones within a given wellbore in the Canyon Largo Unit is generally not common;
- b) pursuant to Division Rule No. 303.D., applicant is currently required to notify all interest owners within the Canyon Largo 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 Canyon Largo Unit of subsequent downhole comminglings is unnecessary and is an excessive burden on the applicant;
- d) the downhole commingling of wells within the Canyon Largo Unit Area will benefit working, royalty, and overriding royalty interest owners. In addition, the downhole commingling of wells within the Canyon Largo 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.

CASE NO. 11685
Order No. R-10786
Page -6-

(16) An administrative procedure should be established within the Canyon Largo 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.

(17) 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 Canyon Largo 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 marginal economic criteria and modification of notification rules on a unit-wide basis for downhole commingling of Dakota, Mesaverde, Pictured Cliffs, Chacra, Gallup and Fruitland Coal gas production within existing or future drilled wells within the Canyon Largo Unit, located in portions of Townships 24 and 25 North, Ranges 6 and 7 West, NMPM, Rio Arriba 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, Pictured Cliffs, Chacra and Gallup formations within the Canyon Largo Unit is hereby approved, provided however that, the portion of the application seeking to establish a "reference case" for pressure criteria in the Fruitland Coal and Mesaverde formations within the Canyon Largo Unit is hereby denied.

(3) Upon filing of Division Form No. C-107-A's for wells subsequently downhole commingled within the Canyon Largo Unit Area, the applicant shall not be required to submit supporting data to justify the classification of the Dakota, Mesaverde, Pictured Cliffs, Chacra, Gallup and Fruitland Coal formations as "marginal", supporting data to verify the Dakota, Pictured Cliffs, Chacra and Gallup pressure information provided, 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.

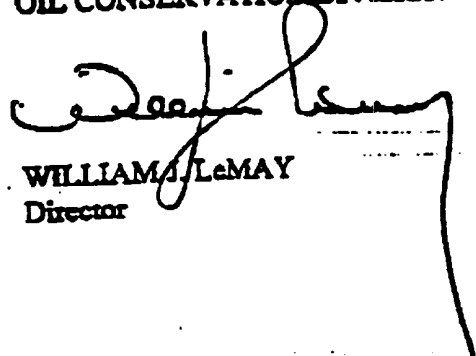
(4) In order to obtain Division authorization to downhole commingle wells within the Canyon Largo Unit, the applicant shall file a Form C-107-A with the Santa Fe and Aztec Offices of the Division. Such application shall contain all the information required under Rule No. 303.D. of the Division Rules and Regulations, provided however that the applicant shall not be required to provide notice to all interest owners within the Canyon Largo Unit of such proposed commingling.

CASE NO. 11685
Order No. R-10786
Page -7-

(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 J. LeMAY
Director

S E A L