

DATE IN 8/29/03	SUSPENSE 9/24/03	ENGINEER DRC	LOGGED IN	TYPE DHC	APP NO. PLR0324130212
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



3192

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [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 Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply

[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] ☒ 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/or,

[F] ☐ Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] CERTIFICATION: I hereby certify that the information submitted with this application for administrative approval is **accurate and complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

NANCY OLTMANN
 Print or Type Name

Nancy Oltmanns
 Signature

Sr. Staff Specialist
 Title

8-27-03
 Date

NOLTMANN@pr-inc.com
 e-mail Address

RECEIVED
 AUG 28 2003
 Oil Conservation Division

District I
1625 N. French Drive, Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107A
Revised May 15, 2000

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

APPLICATION TYPE
Single Well
Establish Pre-Approved Pools
EXISTING WELLBORE
Yes ☒ No

APPLICATION FOR DOWNHOLE COMMINGLING

BURLINGTON RESOURCES OIL & GAS COMPANY PO BOX 4289, FARMINGTON, NM 87499

Operator Address
Cain 22M B-31-29N-9W San Juan
Lease Well No. Unit Letter-Section-Township-Range County
OGRID No. 14538 Property Code 18487 API No. 30-045-31685 Lease Type: ☒ Federal State Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	OTERO CHACRA	BLANCO MESAVERDE	BASIN DAKOTA
	82329	72319	71599
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	WILL BE SUPPLIED UPON COMPLETION	WILL BE SUPPLIED UPON COMPLETION	WILL BE SUPPLIED UPON COMPLETION
Method of Production (Flowing or Artificial Lift)	New Zone	New Zone	New Zone
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	Original – 627 psi From San Juan 20B offset (see attachment)	Original – 647 psi From San Juan 20B offset (see attachment)	Original – 829 psi From San Juan 20B offset (see attachment)
Oil Gravity or Gas BTU (Degree API or Gas BTU)	BTU 1278 from San Juan 20B offset	BTU 1278 from San Juan 20B offset	BTU 1278 from San Juan 20B offset
Producing, Shut-In or New Zone	New Zone	New Zone	New Zone
Date 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:
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	WILL BE SUPPLIED UPON COMPLETION	WILL BE SUPPLIED UPON COMPLETION	WILL BE SUPPLIED UPON COMPLETION

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes ☒ No
Are all produced fluids from all commingled zones compatible with each other? Yes ☒ No
Will commingling decrease the value of production? Yes No ☒
If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands
or the United States Bureau of Land Management been notified in writing of this application? Yes ☒ No
NMOCD Reference Case No. applicable to this well:

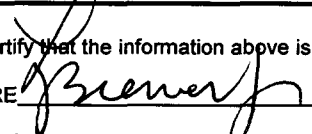
Attachments:

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.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

List of other orders approving downhole commingling within the proposed Pre-Approved Pools
List of all operators within the proposed Pre-Approved Pools
Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
Bottomhole pressure data.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.
SIGNATURE  TITLE Reservoir Engineer Reservoir Eng DATE 8/26/03
nxo TYPE OR PRINT NAME Leonard Biemer TELEPHONE NO. (505) 326-9700

lobbs. NM 88241-1980

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102

Revised February 21, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION

PO Box 2088

Santa Fe, NM 87504-2088

☐ AMENDED REPORT

Act III
Rio Brazos Rd., Aztec, NM 87410

District IV
PO Box 2088, Santa Fe, NM 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-		*Pcc: Code 72319/71599/82329		*Pool Name Blanco Mesaverde/Basin Dakota/Otero Chacra	
*Property Code 18487	*Property Name CAIN			*Well Number 22M	
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY			*Elevation 5776'	

¹⁰ Surface Location

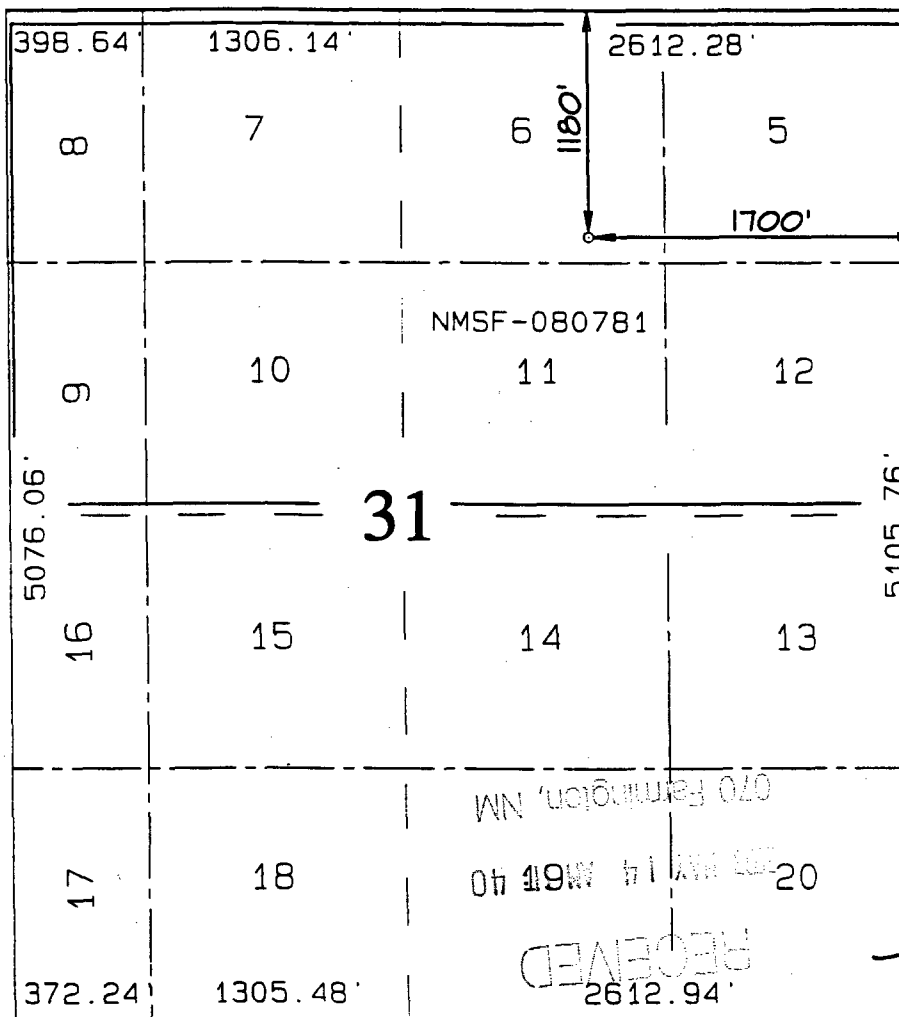
UL or lot no.	Section	Township	Range	Lot 10n	Feet from the	North/South line	Feet from the	East/West line	County
B	31	29N	9W		1180	NORTH	1700	EAST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 10n	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated, Acres Cha: NE/152.74 MV/DK: N/251.72	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Peggy Bradfield
Signature

Peggy Bradfield
Printed Name

Regulatory Administrator
Title

3-13-03
Date

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JULY 21, 1998
Date of Survey

Signature and Seal of Professional Surveyor

NEALE C. EDWARDS
NEW MEXICO
6857
Certificate Number
PROFESSIONAL SURVEYOR

Cain #22M (offset San Juan 20B)
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 1/14/98

Chacra		Mesaverde	
<u>CH-Current</u>		<u>MV-Current</u>	
GAS GRAVITY	0	GAS GRAVITY	0
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0	%N2	0.00
%CO2	0	%CO2	0
%H2S	0	%H2S	0
DIAMETER (IN)	0	DIAMETER (IN)	0
DEPTH (FT)	0	DEPTH (FT)	0
SURFACE TEMPERATURE (DEG F)	0	SURFACE TEMPERATURE (DEG F)	0
BOTTOMHOLE TEMPERATURE (DEG F)	0	BOTTOMHOLE TEMPERATURE (DEG F)	0
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	0	SURFACE PRESSURE (PSIA)	0
BOTTOMHOLE PRESSURE (PSIA)	#DIV/0!	BOTTOMHOLE PRESSURE (PSIA)	#DIV/0!
<u>CH-Original</u>		<u>MV-Original</u>	
GAS GRAVITY	0.744	GAS GRAVITY	0.744
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.004	%N2	0.00
%CO2	0.010	%CO2	0.01
%H2S	0	%H2S	0
DIAMETER (IN)	4.5	DIAMETER (IN)	4.5
DEPTH (FT)	3230	DEPTH (FT)	4427
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	99	BOTTOMHOLE TEMPERATURE (DEG F)	119.3
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	570	SURFACE PRESSURE (PSIA)	570
BOTTOMHOLE PRESSURE (PSIA)	626.9	BOTTOMHOLE PRESSURE (PSIA)	647.3

Cain #22M (offset San Juan 20B)
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 1/14/98

Dakota			
<u>DK-Current</u>			
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)	<div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">0</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">C</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">0</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">0</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">0</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">0</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">0</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">0</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">0</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">0</div>	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)	<div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">0</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">C</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">0.00</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">0</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">0</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">0</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">0</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">0</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">0</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">0</div>
BOTTOMHOLE PRESSURE (PSIA)	<div style="border: 1px solid black; padding: 2px; display: inline-block;">#DIV/0!</div>	BOTTOMHOLE PRESSURE (PSIA)	<div style="border: 1px solid black; padding: 2px; display: inline-block;">#DIV/0!</div>
<u>DK-Original</u>			
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)	<div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">0.744</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">C</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">0.0039</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">0.001</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">0</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">2.375</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">6595</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">60</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">168</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">0</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">690</div>	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)	<div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">0</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">C</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">0.00</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">0</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">0</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">0</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">0</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">0</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">0</div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;">0</div>
BOTTOMHOLE PRESSURE (PSIA)	<div style="border: 1px solid black; padding: 2px; display: inline-block;">829.2</div>	BOTTOMHOLE PRESSURE (PSIA)	<div style="border: 1px solid black; padding: 2px; display: inline-block;">#DIV/0!</div>