



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

March 17, 1997

RECEIVED
MAR 21 1997
OIL CONSERVATION
DIVISION

Burlington Resources
3535 East 30th Street
Farmington, New Mexico 87499-4289
Attention: Peggy Bradfield

Administrative Order TX-265

Dear Mr. Prichard:

Reference is made to your request for an exception to the tubing setting requirements as contained in Division Rule 107 (j) for the below-named wells.

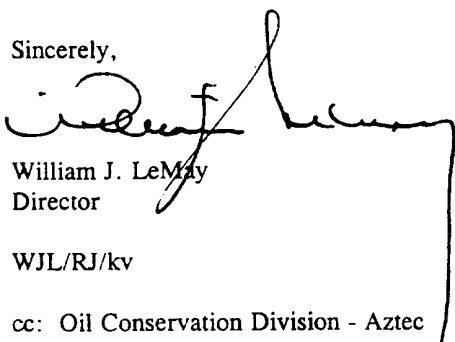
Pursuant to the authority granted me by Rule 107 (d) (4), you are hereby authorized to make tubingless completions in the following wells:

Well Name and Number:

✓ Angel Peak B #14R	Fulcher Kutz Pictured Cliffs	NE 13-28-11	30-045-not assigned - 29446
✓ Brookhaven Com C #4R	S. Blanco Pictured Cliffs	SW 36-27-08	30-045-29430
✓ Feasel #1R	Fulcher Kutz Pictured Cliffs	SW 02-27-10	30-045-not assigned - 29447
✓ Frost #1R	Fulcher Kutz Pictured Cliffs	NE 26-27-10	30-045-not assigned - 29462
Huerfanito Unit #45R <i>NO APD</i>	S. Blanco Pictured Cliffs	SW 24-27-09	30-045-not assigned
✓ Huerfanito Unit #70R	Ballard Pictured Cliffs	NE 10-26-09	30-045-29436
✓ Huerfanito Unit #6R	Fulcher Pictured Cliffs	SW 31-27-10	30-045-not assigned - 29444
✓ McManus #4R	Ballard Pictured Cliffs	SE 19-26-08	30-045-not assigned - 29439

The Division reserves the right to rescind this authority in the event that waste appears to be resulting therefrom.

Sincerely,


William J. LeMay
Director

WJL/RJ/kv

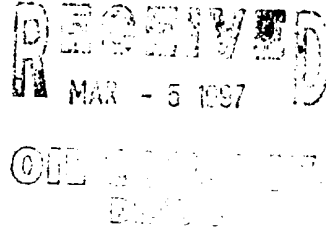
cc: Oil Conservation Division - Aztec

BURLINGTON RESOURCES

SAN JUAN DIVISION

March 3, 1997

New Mexico Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505



Att: Mr. Roy Johnson

Dear Roy:

As we discussed February 27 by phone, this letter serves as application for variance to Rule 107 Sections J. We intend to drill and complete the following eight new wells in the Pictured Cliffs formation utilizing 3 1/2" casing and cement, and no tubing.

Angel Peak B #14R	Fulcher Kutz Pictured Cliffs	NE 13-28-11	30-045-not assigned
Brookhaven Com C #4R	S.Blanco Pictured Cliffs	SW 36-27-08	30-045-29430
Feasel #1R	Fulcher Kutz Pictured Cliffs	SW 02-27-10	30-045-not assigned
Frost #1R	Fulcher Kutz Pictured Cliffs	NE 26-27-10	30-045-not assigned
Huerfanito Unit #45R	S.Blanco Pictured Cliffs	SW 24-27-09	30-045-not assigned
Huerfanito Unit #70R	Ballard Pictured Cliffs	NE 10-26-09	30-045-29436
Huerfano Unit #6R	Fulcher Kutz Pictured Cliffs	SW 31-27-10	30-045-not assigned
McManus #4R	Ballard Pictured Cliffs	SE 19-26-08	30-045-not assigned

These tubingless completions are desirable as they allow Burlington to economically produce reserves from the tight, low pressure Pictured Cliffs formation. Significant cost savings are realized in both drilling and completion using this method. The 3 1/2" casing string will allow the wells to produce at a higher rate than can be realized through smaller tubulars, and also carry less risk during any subsequent workover operations.

All the listed wells meet the following criteria:

- are in proven fields
- are less than 5000' total depth
- do not have corrosive or pressure problems
- are not dual completions
- will not produce any liquids or condensate (dry gas only)

Attached is a copy of the C102 well location plat, operations plan, and wellbore schematic for each well. Please let me know if you require any further information for these wells.

Sincerely,

Peggy Bradfield
Regulatory/Compliance Administrator

xc: NMOCD Aztec District Office

1980, Hobbs, NM 88241-1980

II

Lawyer DD, Artesia, NM 88211-0719

District III

100 Rio Brazos Rd., Aztec, NM 87410

District IV

PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources DepartmentOIL 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 30-045- <u>29430</u>	Pool Code 72439	Pool Name South Blanco Pictured Cliffs
Property Code <u>26142</u>	Property Name Brookhaven Com C	Well Number 4R
OGRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	Elevation 6229'

10 Surface Location

UL or lot no. L	Section 36	Township 27-N	Range 8-W	Lot Idn	Feet from the 1650	North/South line South	Feet from the 910	East/West line West	County S.J.
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11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
11 Dedicated Acres 11 Joint or Infill 11 Consolidation Code 11 Order No.									
160									

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	2581.92'	2750.88'	17 OPERATOR CERTIFICATION
<p>5368.44'</p> <p>910'</p> <p>36</p> <p>B-11125-50</p> <p>E-3148-20</p> <p>E-1199-8</p> <p>2777.94'</p> <p>2619.54'</p> <p>5295.54'</p>			I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.
			Signature <i>Peggy Bradfield</i>
			Printed Name Peggy Bradfield
			Title Regulatory Administrator
			Date 1-9-97
			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.
			12/16/96
			Date of Survey
			Signature and Seal of Professional Surveyor
			<p>NEALE C. EDWARDS NEW MEXICO 6857 REGISTERED PROFESSIONAL SURVEYOR</p>
			Certificate Number 6857

OPERATIONS PLAN

Well Name: Brookhaven Com C #4R
Location: 1650' FSL, 910' FWL Section 36, T-27-N, R-8-W
 San Juan County, New Mexico
 Latitude 36° 36' 02", Longitude 107° 52' 12"
Formation: South Blanco Pictured Cliffs
Elevation: 6229' GL

Formation:	Top	Bottom	Contents
Surface	Nacimiento	1420'	
Ojo Alamo	1420'	1619'	aquifer
Kirtland	1619'	2000'	
Fruitland	2000'	2309'	gas
Fruitland Coal	2150'	2285'	gas
Pictured Cliffs	2309'		gas
Total Depth	2500'		

Logging Program: Mud log 2000-to TD
 Hi Res Ind, Den/Neut, MRL/GR to Total Depth.

Coring Program: none

Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 120'	Spud	8.4-9.0	40-50	no control
120-2500'	LSND	8.4-9.0	40-60	no control

Casing Program (as listed, equivalent, or better):

Hole Size	Depth Interval	Csq. Size	Wt.	Grade
12 1/4"	0 - 120'	8 5/8"	23.0#	M-50
6 1/4"	0 - 2500'	3 1/2"	7.7#	WC-70

Tubing Program: - none

Float Equipment: 8 5/8" surface casing - saw tooth guide shoe.
 Centralizers will be run in accordance with Onshore Order #2.

3 1/2" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Four centralizers run every 3rd joint to the base of the Ojo Alamo @ 1619'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1619'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 8 5/8" x 3 1/2" x 11" 2000 psi screw on independent wellhead.

Cementing:

8 5/8" surface casing - cement with 129 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (149 cu.ft. of slurry, 200% excess to circulate to surface). WOC 12 hrs. Test casing to 600 psi for 30 minutes.

3 1/2" production casing - Lead w/295 sx of 65/35 Class "B" Poz w/6% gel, 2% calcium chloride, and 1/4# flocele/sx. Tail w/100 sx Class "B" w/2% calcium chloride (640 cu.ft. of slurry, 75% excess to circulate to surface). WOC 12 hrs. If cement does not circulate to surface, a CBL will be run during completion to determine TOC.

BOP and tests:

Surface to TD - 11" 2000 psi (minimum double gate BOP stack (Reference Figure #1 and #2). Prior to drilling out surface casing, test rams to 600 psi/30 min.

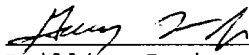
Completion - 6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams and casing to 2000 psi/15 min.

From surface to TD - choke manifold (Reference Figure #3).

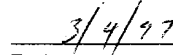
Pipe rams will be actuated to least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

Additional information:

- * The Pictured Cliffs formation will be completed.
- * Anticipated pore pressure for the Pictured Cliffs is 300 psi.
- * This gas is dedicated.
- * The southwest quarter of the section is dedicated to the Pictured Cliffs.
- * New casing will be utilized.
- * Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.



Drilling Engineer



Date

Brookhaven Com C #4R

Section 36L, T-27-N, R-08-W
San Juan County, NM

SOUTH BLANCO PICTURED CLIFFS
WELLBORE SCHEMATIC

PROPOSED

ELEVATION: 6227' GL 6235' KB

