

## 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

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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 $-2^{\frac{3}{2}}$
✓ 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 29 46 2
Huerfanito Unit #45R NO APD	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 37444
✓ 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. LeMan Director

WJL/RJ/kv

cc: Oil Conservation Division - Aztec

# BURLINGTON RESOURCES

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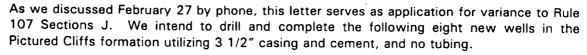
March 3, 1997

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

Att:

Mr. Roy Johnson

Dear Roy:



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

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- 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

District ( PO Box 1980, Hobbs, NM 18241-1986) District H

PO Drawer DD, Artena, NM 88211-0719 District III 1000 Rio Brazzo Rd., Aziec, NM 87410

District IV PO Box 2088, Santa Fe, NM 87504-2088 State of New Mexico
Energy, Mineral & 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 - - Copies

Fee Lease - 3 Contes

AMENDED REPORT

		WE	LL LO	CATION	I AND ACR	EAGE DEDI	CATION PL	_AT	
	API Numbe	r		1 Pool Code		' Pool Name			
30-045-	<b>-</b>	71439 Ballard Pictured Cliffs							
Property	Code				· Well Number				
7138		Huerfanito Unit					70R		
OGRID 14538	No.	В	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY				* Elevation 6293 '		
					10 Surrace	Location			
UL or lot se.	Section	Towesip	Range	Lot ida	Feet from the	North/South line	Feet from the	East West use	County
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			11 Bott	tom Hol	e Location I	f Different Fr	om Surface		
UL or tot so.	Section	Townsoip	Range	Lot ida	Feet from the	North/South tine	Feet from the	East West upe	Cocary
160 NO ALLO		WILL BE A	SSIGNE		IS COMPLETI	ON UNTIL ALL			DNSOLIDATED
16				8.16'	610'		17 OPE	RATOR CER	TIFICATION

16 5198.16'

17 OPERATOR CERTIFICATION
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## OPERATIONS PLAN

Well Name: Huerfanito Unit #70R

1610'FNL, 1645'FEL Section 10, T-26-N, R-9-W Location:

San Juan County, New Mexico

Latitude 36° 30.33, Longitude 107° 46.30

Formation: Ballard Pictured Cliffs

Elevation: 6293'GL

2201			
Formation:	Top	Bottom	Contents
Surface Ojo Alamo Kirtland Fruitland Fruitland Coal Pictured Cliffs Total Depth	Nacimiento 1170' 1279' 1727' 1934' 2007' 2250'	1170' 1279' 1727' 2007' 1997'	aquifer gas gas gas

Logging Program: Hi Res Ind, Den/Neut, MRL/GR to Total Depth.

## Mud Program:

Program:		Weight	Vis.	Flui	d Loss
Interval	<u>Type</u>	8.4-9.0	40-50	no	control
0- 120'	Spud	8.4-9.0	40-60	no	control
120-2250'	LSND	0.4-2.0			

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

ing Program Hole Size	Depth Interval	Csg.Size	Wt.	Grade
12 1/4"	0 - 120'	8 5/8 <b>"</b>	23.0#	M-50
6 1/4"	0 - 2250'	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 @ 1279'. Two turbolizing type centralizers one below and one into the base of the Ojo Alamo @ 1279'. 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/259 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 (576 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.

# Huerfanito Unit #70R

# 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.
- The northeast quarter of the section is dedicated to the Pictured Cliffs.
- Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.

# Huerfanito unit #70R

Section 10G, T-26-N, R-9-W San Juan County, NM

# BALLARD PICTURED CLIFFS WELLBORE SCHEMATIC

## **PROPOSED**

