



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 31 1997

OIL CON. DIV.
DIST. 3

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:

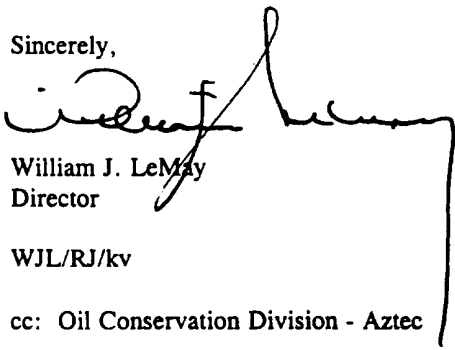
✓ posted

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
<u>Huerfanito Unit #45R</u>	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 - 29437

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

X

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, 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 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-		Pool Code 72439	Pool Name So. Blanco Pictured Cliffs
Property Code 7138	Property Name Huerfanito Unit		Well Number 45R
GRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		Elevation 6159'

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
M	24	27-N	9-W		1140	South	1180	West	S.J.

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 Dedication Acres 160	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

<div><p>16</p><p>2567.40'</p><p>2652.54'</p><p>24</p><p>NAV- G065211</p><p>1180'</p><p>1140'</p><p>5261.52'</p><p>5286.60'</p><p>2661.12'</p><p>2640.00'</p></div>	<div><p>¹⁷ OPERATOR CERTIFICATION</p><p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p><p>Signature Perry Bradfield</p><p>Printed Name Regulatory Administrator</p><p>Title</p><p>Date</p></div>
	<div><p>¹⁸ SURVEYOR CERTIFICATION</p><p>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.</p><p>11/26/96</p><p>Date of Survey</p><p>Signature and Seal of Professional Surveyor</p><p>NEALE C. EDWARDS NEW MEXICO 6857 REGISTERED PROFESSIONAL SURVEYOR</p><p>6857266</p><p>Certificate Number</p></div>

OPERATIONS PLAN

Well Name: Huerfanito Unit #45R
Location: 1140' FSL, 1180' FWL Section 24, T-27-N, R-9-W
 San Juan County, New Mexico
 Latitude 36° 33.38, Longitude 107° 44.67
Formation: So. Blanco Pictured Cliffs
Elevation: 6159' GL

Formation:	Top	Bottom	Contents
Surface	Nacimiento	1239'	
Ojo Alamo	1239'	1370'	aquifer
Kirtland	1370'	1870'	
Fruitland	1870'	2110'	gas
Fruitland Coal	2060'	2102'	gas
Pictured Cliffs	2110'		gas
Total Depth	2400'		

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

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0 - 120'	Spud	8.4-9.0	40-50	no control
120-2400'	LSND	8.4-9.0	40-60	no control

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

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Csq. Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0 - 120'	8 5/8"	23.0#	M-50
6 1/4"	0 - 2400'	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 @ 1370'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1370'. 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/280 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 (614 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 #45R

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

Huerfanito Unit #45R

Section 24M, T-27-N, R-9-W
San Juan County, NM

SOUTH BLANCO PICTURED CLIFFS WELLBORE SCHEMATIC

PROPOSED

ELEVATION: 6179' GL 6191' KB

8-5/8" 23# M-50
Casing
Set @ 120'
Cmt to surface w/ 129 sx
(see operation plan
for cement details)

TOP OF OJO ALAMO @ 1239'

TOP OF KIRTLAND @ 1370'

TOP OF FRUITLAND @ 1870'

TOP OF PICTURED CLIFFS @ 2110'

Perf & Foam Frac
2110' - 2320' w/
85,000# 20/40 sand

3-1/2" 7.7# WC-70
Casing Set @ 2400'
Cmt to Surface
w/380 sx (see
operation plan for
detail).

PBTD @ 2396'
TD @ 2400'