

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



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: V = C

Well Name and Number:

✓ Angel Peak B #14R	Fulcher Kutz Pictured Cliffs	NE 13-28-11	30-045-not assigned - 29 446
✓ 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 – ਹੈ 9 4 4 7
Frost #1R	Fulcher Kutz Pictured Cliffs	NE 26-27-10	30-045-not assigned 29 46 2
Huerfanito Unit #45R NO APP.	S. Blanco Pictured Cliffs	SW 24-27-09	30-045-not assigned
- Huerfanito Unit #70R	Ballard Pictured Cliffs	NE 10-26-09 SW 31-27-10	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 29 4 39

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

Sincerely,

William J. Lely

WJL/RJ/kv

Director

cc: Oil Conservation Division - Aztec

BURLINGTON RESOURCES

SAN JUAN DIVISION

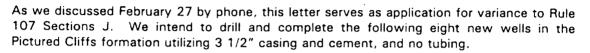
March 3, 1997

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

Att:

Mr. Roy Johnson

Dear Roy:



Angel Peak B #14R	Fulcher Kutz Pictured Cliffs	NE 13-28-11	30-045-not assigned
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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: N

NMOCD Aztec District Office

District I PO Box 1980, Hobbs, NM \$8241-1980 District il PO Drawer OD, Artesia, NM 88211-0719 District (III 1000 Rio Brazos Rd., Aztec, NM 87410 District (V

PO Box 2088, Santa Fe. NM 87504-2088

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on pack

Submit to Appropriate District Office

State Lease - + Contes Fee Lease - 3 Copies

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	¹ Pool Code	, Por	ok Name
30-045-	77200	Fulcher Kutz Picture	d Cliffs
Property Code		' Property Name	* Well Number
7139	Hueri	ano Unit	6R
'OGRID No.		1 Operator Name	' Elevatine
14538	BURLINGTON RESC	URCES OIL & GAS COMPANY	6519'

10 Surrace Location

UL or lot me.	Section	Townsip	Range	Lot ida	Feet from the	North/South line	Feet from the	East West time	County
М	31	27-N	10-W		790	South	1290	West	S.J.
		· —	11 Bot	tom Hol	e Location I	f Different Fro	om Surface		

UL or tot so.	Section	Towesaip	Range	Lot ida	Feet from the	North/South line	Feet from the	East West tipe	County
12 Dedicated Acre	Joint '	orialii i '* '	Consendatio	a Code i " C	order No.	<u> </u>			
168.18								DEEN COL	

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

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		'		1	Peggy Bradfield
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N ====	<u> </u>				"SURVEYOR CERTIFICATION
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		DECE			or under my supervision, and that the same is true and
3		£25 to	1 1 2 1	1	correct to the best of my belief. 11/25/96
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OPERATIONS PLAN

Well Name: Huerfano Unit #6R

Location: 790'FSL, 1290'FWL Section 31, T-27-N, R-10-W

San Juan County, New Mexico

Latitude 36° 31.62, Longitude 107° 56.47

Formation: Fulcher Kutz Pictured Cliffs

Elevation: 6519'GL

Formation:	Top	Bottom	Contents
Surface	Nacimiento	1052′	
Ojo Alamo	1052'	1185′	aquifer
Kirtland	1185'	1857'	
Fruitland	1857'	2080'	gas
Fruitland Coal	1890′	2073′	gas
Pictured Cliffs	2080'		gas
Total Depth	2400'		

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

Mud Program:

<u>Interval</u>	Type	<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>	Depth Interval	<u>Csq.Size</u>	<u>Wt.</u>	Grade
12 1/4"	0 - 120'	8 5/8"	23.0#	M-50
6 1/4"	0 - 2400'	3 1/2"		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 @ 1185'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1185'. 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.

Huerfano Unit #6R

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.

	D-4-
Drilling Engineer	Date
Drilling Engineer	

Huerfano #6R

Section 31K, T-27-N, R-10-W San Juan County, NM

WEST KUTZ PICTURED CLIFFS WELLBORE SCHEMATIC

PROPOSED

