

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

DECETVED MAR 3 1 1997

OIL COM. DAY,

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:

Feasel #1R Fulcher Kutz Pictured Cliffs Fulcher Kutz Pictured Cliffs NE Huerfanito Unit #45R NO POD Huerfanito Unit #70R Huerfanito Unit #6R Fulcher Kutz Pictured Cliffs SW NE Ballard Pictured Cliffs NE Fulcher Pictured Cliffs NE SW NE Fulcher Fulcher Fulcher Pictured Cliffs SW NE Fulcher Fulcher Fulcher Pictured Cliffs SW NE Fulcher Fulcher Fulcher Pictured Cliffs	7 36-27-08 30-045-29430 7 02-27-10 30-045-not assigned — 30-045-not assigned — 30-045-not assigned — 30-045-29436 8 10-26-09 30-045-29436 9 31-27-10 30-045-not assigned — 30	-29444 8444
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The Division reserves the right to rescind this authority in the event that waste appears to be resulting therefrom.

Sincerely,

William J. Lel Director

WJL/RJ/kv

cc: Oil Conservation Division - Aztec

BURLINGTON RESOURCES

SAN JUAN DIVISION

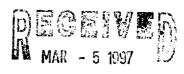
March 3, 1997

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

Att:

Mr. Roy Johnson

Dear Roy:



OIL GOVE, DAY.

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		30-045-not assigned
Frost #1R	Fulcher Kutz Pictured Cliffs		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		30-045-29436
Huerfano Unit #6R	Fulcher Kutz Pictured Cliffs		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

Makried

District I PO Box 1980, Hobbs, NM 88241-1980 State of New Mexico

Form C-102 Revised February 21, 1994 instructions on oack

PO Drawer OD. Artesia. NM 88211-0719

Submit to Appropriate District Office OIL CONSERVATION DIVISION

1000 Rio Brazos Rd., Aztec. NM 87410

State Lease - - Copies Fee Lease - 3 Copies

PO Box 2088 Santa Fe, NM 87504-2088

District IV AMENDED REPORT PO Box 2088. Santa Fe. NM 87504-2088 WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Fulcher Kutz Pictured Cliffs 77200 30-045-· Well Number Property Name * Property Code 14R Angel Peak B 6788 ' Elevenes Operator Name 'OGRID No. 5818' BURLINGTON RESOURCES OIL & GAS COMPANY 14538 10 Surface Location East West time Conney Feet from the North/South line Feet from the Range Lot Ida Section Township UL or lot se. East S.J. 1830 1850 North 28-N 11-W G 13 11 Bottom Hole Location If Different From Surface North/South line East/West line County Feet (rom the Lot Ida UL or lot no. Section 12 Dedicated Acrest 12 Joint or Infill | 14 Consendation Code | 15 Order No. 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 *5*281.98' 16 I hereby certify that the information con true and complete to the best of my knowledge and belie Signature Peggy Bradfield Printed Name Regulatory Administrator 1830 Title 8 SF-047017-B "SURVEYOR CERTIFICATION correct to the best of my belief. 11/25/96 Date of Survey EDW

5282.64

OPERATIONS PLAN

Well Name: Angel Peak B #14R

Location: 1850'FNL, 1830'FEL Section 13, T-28-N, R-11-W

San Juan County, New Mexico

Latitude 36° 39.87, Longitude 107° 51.7

Formation: Fulcher Kutz Pictured Cliffs

Elevation: 5818'GL

Formation:	Тор	Bottom	Contents
Surface	Nacimiento	754 ′	
Ojo Alamo	754 ′	885 ′	aquifer
Kirtland	885′	1570'	
Fruitland	1570'	1868'	gas
Fruitland Coal	1711′	1877 '	gas
Pictured Cliffs	1868'		gas
Total Depth	2200'		

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

Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 120'	Spud	8.4-9.0	40-50	no control
120-2200'	LSND	8.4-9.0	40-60	no control

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

Hole Size	Depth Interval	Csg.Size	Wt.	Grade
12 1/4"	0 - 120'	8 5/8 "	23.0#	M-50
6 1/4"	0 - 2200'	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 @ 885'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 885'. 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/244 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 (549 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.

Angel Peak B #14R

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 northeast 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 \nearrow

Drilling Enginee

Date

Angel Peak B #14R

Section 13G, T-28-N, R-11-W San Juan County, NM

FULCHER KUTZ PICTURED CLIFFS WELLBORE SCHEMATIC

PROPOSED

