

BURLINGTON RESOURCES

SAN JUAN DIVISION

July 31, 1998

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

Att: Mr. Roy Johnson

Dear Mr. Johnson:

This is an application for variance to Rule 107 Section J. We intend to workover and drill additional hole in the following wells in the Pictured Cliffs formation, run 3 1/2" casing and cement, and run no tubing.

| | | |
|---------------------|-------------------------------|--------------|
| Pipkin #4 | NE Section 18, T-27-N, R-10-W | 30-045-06556 |
| Huerfanito Unit #49 | NE Section 35, T-27-N, R-9-W | 30-045-06155 |
| Huerfanito Unit #25 | SE Section 4, T-26-N, R-9-W | 30-045-05998 |
| Huerfanito Unit #24 | SW Section 4, T-26-N, R-9-W | 30-045-06030 |
| Huerfano Unit #47 | NE Section 9, T-26-N, R-9-W | 30-045-05971 |
| McConnell #2 | SE Section 13, T-26-N, R-9-W | 30-045-05816 |
| McConnell #3 | NE Section 13, T-26-N, R-9-W | 30-045-05854 |

In addition, we intend to workover the following Pictured Cliffs wells which currently have 3 1/2" casing. We will stimulate and fracture treat these wells, and will run no tubing back in the wells.

| | | |
|---------------|-------------------------------|--------------|
| Summit B #5 | NW Section 33, T-29-N, R-11-W | 30-045-60273 |
| Whitley #1 | NW Section 17, T-27-N, R-9-W | 30-045-06531 |
| Aztec #6 | SE Section 14, T-28-N, R-11-W | 30-045-07393 |
| Mangum #3 | SE Section 28, T-29-N, R-11-W | 30-045-07810 |
| Atlantic C #8 | NE Section 31, T-31-N, R-10-W | 30-045-20137 |
| Florance #8 | NW Section 20, T-30-N, R-9-W | 30-045-20462 |
| Pierce #9 | ✓ NW Section 7, T-30-N, R-9-W | 30-045-20475 |
| Sunray B #7 | SW Section 15, T-30-N, R-10-W | 30-045-20846 |
| Sunray A #5 | SE Section 10, T-30-N, R-10-W | 30-045-20894 |
| Summit #7 | SE Section 34, T-29-N, R-11-W | 30-045-21530 |

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 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.

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Mr. Roy Johnson
New Mexico Oil Conservation Division
Page Two
July 31, 1998

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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 pertinent data sheet and wellbore schematic for each well. Please let me know if you require any additional information for these wells.

Sincerely,

BURLINGTON RESOURCES



Peggy Bradfield
Regulatory/Compliance Administrator

xc: NMOCD - Aztec District Office

McConnell # 2
Pertinent Data Sheet

API #: 300450581600

Location: 988 ' FSL & 1850 ' FEL, Unit O, Section 13, T26N, R09W, San Juan County, New Mexico

Latitude: 36 ° - 29.01 ' **Longitude:** 107 ° - 44.27 '

Field: Ballard PC

Elevation: 6,298 ' GL
6,308 ' KB

TD: 2,045 '
PBTD: 2,034 '

DP #: 51018A

Lease: NM 4113 U300

GWl: 67.5 %

NRI: 50.709375 %

Prop#: 12615800

Spud Date: 3/7/56

Compl Date: 4/4/56

Initial Potential: 1325 Mcfd

Original SIP: 638 psi

Casing Record:

| <u>Hole Size (In.)</u> | <u>Csg Size (In.)</u> | <u>Wt. (#'s) & Grade</u> | <u>Depth Set (Ft.)</u> | <u>Cement (Sx.)</u> | <u>Cement (Top)</u> |
|------------------------|-----------------------|------------------------------|------------------------|---------------------|---------------------|
| 13 3/4 | 9 5/8 | 25.4 J-55 | 133 | 100 | circ to surf |
| 8 3/4 | 5 1/2 | 15.5 J-55 | 1,996 | 150 | 1050' (TS) |
| 4 3/4 | openhole | | 1,996 -2,045 | | |

Tubing Record:

| <u>Tbg. Size</u> | <u>Wt. & Grade</u> | <u>Depth Set</u> | <u># Joints</u> | <u>Comments</u> |
|------------------|------------------------|------------------|-----------------|-----------------|
| 1 1/4" | 2.3 J-55 | 2,024 ' | 96 | |

Formation Tops:

Ojo Alamo: 1,208 ' All Tops are estimated
Kirtland Shale: 1,325 '
Fruitland: 1,677 '
Pictured Cliffs: 1,995 '

Logging Record:

Original Stimulation: SWF w/ 41,600 gal wtr and 60,000# sd

Workover History: None

Production History: 5/98 PC capacity: 2.0 MCF/D. 5/98 PC cum: 1169.0 MMCF.

Pipeline: EPNG

File: Q:\area\pcteam\1998\welldata\convent-1\CONVPERT

McConnell # 2

Section 13 O, T-26 -N R-09 -W
San Juan, New Mexico

Ballard Pictured Cliffs Field Wellbore Schematic

Cmt Top
circ to surf @ Surf (circ)

CURRENT

Elevation 6,298' GL 6,308' KB

PROPOSED

9 5/8" 25.4# J-55 Casing
Set @ 133'
Cmt'd w/ 100 sx

1 1/4" 2.3# J-55
Set @ 2,024'
96 Jts.

5 1/2" 15.5# J-55 Casing
Set @ 1,996'
Cmt'd w/ 150 sx

SWF w/ 41,600 gal wtr and
60,000# sd

Top of Ojo Alamo @ 1,208'

Top of Kirtland @ 1,325'

Top of Fruitland @ 1,677'

Top of Pictured Cliffs @ 1,995'

3 1/2" 9.2# J-55
Casing Set @ 2,145'
Cmt to Surf.

Perf & Foam Frac
1,996 - 2,141'
Frac with 150,000#
20/40 sand

PBTD @ 2,034'
TD @ 2,045'

PBTD @ ≈ 2,141'
TD @ ≈ 2,145'