

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

1. Type of Well  
GAS

2. Name of Operator  
**BURLINGTON RESOURCES** OIL & GAS COMPANY

3. Address & Phone No. of Operator  
PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M  
990' FNL 890' FWL, Sec. 28, T-26-N, R-9-W, NMPM

5. Lease Number  
SF-078060-A

6. If Indian, All. or Tribe Name

7. Unit Agreement Name  
Huerfano Unit

8. Well Name & Number  
Huerfano Unit #182

9. API Well No.  
30-045-20309

10. Field and Pool  
Basin DK/Basin FTC

11. County and State  
San Juan Co, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

Type of Action

<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other -	

13. Describe Proposed or Completed Operations

It is intended to restimulate the subject well according to the attached procedure and wellbore diagram.

RECEIVED  
BLM  
99 MAR -4 PM 2:35  
070 FARMINGTON, NM

14. I hereby certify that the foregoing is true and correct.

Signed Gregory J. Spivey (PIP) Title Regulatory Administrator Date 3/2/99  
TLW

(This space for Federal or State Office use)

APPROVED BY Chip Hansen Title Acting Team Lead Date 3/12/99  
CONDITION OF APPROVAL, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NMOC

HUERFANO UNIT #182 FRTC  
Workover Procedure  
D 28 26 9  
San Juan County, N.M.  
Lat-Long: 36 – 27.82' & 107 – 47.96'

**PROJECT SUMMARY:** Foam frac the FRTC in this 1968 vintage well that was recompleted to the FRTC (acid breakdown only) in 1989.

1. Comply to all NMOCD, BLM, and BROG rules and regulations. MOL and RU completion rig. NU BOP w/flow tee and stripping head. NU blooie line and 2-7/8" relief line.
2. TIH to tag (sand fill) or PBD 2079'. If sand fill is encountered, CO w/air/mist to 2079'. TOH w/ 2-3/8" tbg.
3. Run 4-1/2" csg scraper on 2-3/8" tbg to 1850'. TOH.
4. Spot and fill 3-400 bbl. frac tanks w/1% KCL water. If necessary, filter all water to 25 microns. Two tanks are for gel and one tank for breakdown water. Usable water required for frac is 646 bbls.
5. TIH w/4-1/2" pkr on 2-7/8" 6.5# N-80 ~~w/shaved collars~~ (3.5" O.D. 2.441" I.D.) rental frac string and set @ 1850'. (Run 2 jts 2-3/8" N-80 on top of pkr). Pressure to 300 psi on annulus and prepare to frac.
6. Fracture treat FRTC down frac string w/90,000 gals. of 70 quality foam using 30# gel as the base fluid and 160,000# 20/40 Arizona sand. Pump at 40 BPM. Monitor bottomhole and surface treating pressures, rate, foam quality, and sand concentration with computer van. Sand to be tagged w/ 3 RA tracers. Max. pressure is 6000 psi and estimated treating pressure is 5400 psi. (Pipe friction is 4300 psi @ 40 BPM). Treat per the following schedule:

<u>Stage</u>	<u>Foam Vol. (Gals.)</u>	<u>Gel Vol. (Gals.)</u>	<u>Sand Vol. (lbs.)</u>
15% HCL ACID		2,000 (acid)	---
Pad	20,000	6,000	---
1.0 ppg	20,000	6,000	20,000
2.0 ppg	20,000	6,000	40,000
3.0 ppg	20,000	6,000	60,000
4.0 ppg	10,000	3,000	40,000
Flush	( 500)	(150)	0
Totals	90,000	27,000	160,000#

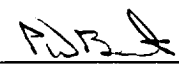
Shut well in after frac for four hours to allow the gel to break. Treat frac fluid w/the following additives per 1000 gallons:

- |                      |                                          |
|----------------------|------------------------------------------|
| * 30# J-48           | (Guar Gel mix in full tank - 16,000 gal) |
| * 1.0 gal. Aqua Flow | (Non-ionic Surfactant mix in full tank)  |
| * 1.0# GVW-3         | (Enzyme Breaker mix on fly)              |
| * 1.0# B - 5         | (Breaker mix on fly)                     |
| * 5.0 gal Fracfoam I | (Foamer mix on fly)                      |
| * 0.38# FracCide 20  | (Bacteriacide mix on full tank)          |

HUERFANO UNIT #182 FRTC - FRAC EXISTING FRTC

7. Open well through choke manifold and monitor flow. Flow @ 20 bbl/hr, or less if sand is observed. **Take pitot gauges when possible.**
8. Release pkr and TOH w/frac string. TIH w/notched collar on 2-3/8" tbg and clean out to 2079' w/air/mist.
9. Monitor gas and water returns and **take pitot gauges when possible.**
10. When wellbore is sufficiently clean, TOH and run after frac gamma-ray log from 2079'-1800'.
11. TIH w/2-3/8" tbg w/standard seating nipple one joint off bottom and again cleanout to 2079'. When wellbore is sufficiently clean, land tbg @ 2020' KB. **Take final water and gas rates.**
12. ND BOP and NU wellhead and tree. Rig down and release rig.

Recommended:  4/26/99  
Production Engineer

Approved:  2/19/99  
Drilling Superintendent

Approved:  1/26/99  
Team Leader

VENDORS:

Wireline:	Basin	327-5244
Fracturing:	Howco	325-3575
RA Tagging:	Pro-Technics	326-7133
Packers:	Schlum.	325-5006

PMP

# HUERFANO UNIT #182 FRTC

UNIT D SECTION 28 T26N R9W  
SAN JUAN COUNTY, NEW MEXICO

