

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

790' FNL, 890' FWL, Sec. 27, T-27-N, R-10-W, NMPM

5. Lease Number
SF-077951-A

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

8. Well Name & Number
Rowley D #1

9. API Well No.
30-045-06302

10. Field and Pool
~~Euler~~ KUTZ PC/Basin FC

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

☒ Notice of Intent

☐ Abandonment

☐ Change of Plans

☐ Subsequent Report

☐ Recompletion

☐ New Construction

☐ Final Abandonment

☐ Plugging Back

☐ Non-Routine Fracturing

☐ Casing Repair

☐ Water Shut off

☐ Altering Casing

☐ Conversion to Injection

☒ Other - Restimulation

13. Describe Proposed or Completed Operations

It is intended to frac the subject PRTC well according to the attached procedure.

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

Signed *Deanna Cole* Title Regulatory Administrator Date 12/16/99
trc

(This space for Federal or State Office use)

APPROVED BY /s/ Jim Lewis Title _____ Date JAN 12 2000

CONDITION OF APPROVAL, if any:

314000

ROWLEY D #1 FRTC
Workover Procedure
D 27 27 10
San Juan County, N.M.
Lat-Long: 36 -- 33.07 & 107 -- 53.30

PROJECT SUMMARY: Foam frac the FRTC in this 1953 vintage well that was recompleted to the FRTC (natural) in 1988.

1. Comply to all NMOCD, BLM, and BROG rules and regulations. MOL and RU completion rig. NU EOP w/flow tee and stripping head. NU bleed line and 2-7/8" relief line.
2. TIH to tag (sand fill) or PBTD 1891'. If sand fill is encountered, CO w/air/mist to 1891'. TOH w/50 jts 2-3/8" tbg.
3. Run 5-1/2" csg scraper on 2-3/8" tbg to 1600'. 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 719 bbls.
5. TIH w/5-1/2" pkr on 3-1/2" 9.3# N-80 w/shaved collars (4.25" O.D. 2.992" I.D.) rental frac string and set @ 1600'. (Run 2 jts 2-7/8" N-80 tbg above pkr). Pressure to 300 psi on annulus and prepare to frac.
6. Fracture treat FRTC down frac string w/100,000 gals. of 70 quality foam using 20# gel as the base fluid and 200,000# 20/40 Arizona sand. Pump at 50 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 3627 psi. (Pipe friction is 2504 psi @ 50 BPM). Treat per the following schedule:

<u>Stage</u>	<u>Foam Vol. (Gals.)</u>	<u>Gel Vol. (Gals.)</u>	<u>Sand Vol. (lbs.)</u>
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	20,000	6,000	80,000
Flush	<u>(584)</u>	<u>(175)</u>	<u>0</u>
Totals	100,000	30,000	200,000#

Shut well in after frac for 4 hours to allow the gel to break. Treat frac fluid w/the following additives per 1000 gallons:

- | | |
|----------------------|--|
| * 1.0# 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# G/W-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 | (Bactericide mix on full tank) |

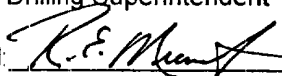
7. Open well through choke manifold and monitor flow. Flow @ 20 bbl/hr, or less if sand is observed. Take pitot gauges when possible.

ROWLEY D #1 FRTC - FRAC EXISTING FRTC

8. Release pkr and TOH w/frac string. TIH w/notched collar on 2-3/8" tbg and clean out to 1891' 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 1891'-1500'.
11. TIH w/2-3/8" tbg w/standard seating nipple one joint off bottom and again cleanout to 1891'. When wellbore is sufficiently clean, land tbg @ 1850' KB. Take final wa'er and gas rates.
12. ND BOP and NU wellhead and tree. Rig down and release rig.

Recommended: 
Production Engineer

Approved:  12-14-99
Drilling Superintendent

Approved: 
Team Leader

VENDORS:

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

PMP

12/06/19992

Pertinent Data Sheet -- ROWLEY D #1 FRTC
D 27 27 10

Location: 790' FNL & 890' FWL, Unit D, Section 27, T27N, R1CW, San Juan County, New Mexico

<u>Field:</u> Basin Fruitland Coal	<u>Elevation:</u> 6128' GL KB=10'	<u>TD:</u> 1949' <u>PBTD:</u> 1891' <u>Lease#:</u> Fed. SF-077951A <u>DP #:</u> 5088502 <u>GWl:</u> 100% <u>NRI:</u> 74.00%
<u>Spud Date:</u> 2/17/53		
<u>Completion Date:</u> 3/19/53		
<u>Recompletion Date:</u> 5/16/88		

Casing Record:

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Cement (Top)</u>
NA	8-5/8"	24# J-55	105'	100 sx	Surface
7-7/8"	5-1/2"	15.5# J-55	1894'	150 sx	830'-TS
4-3/4"	Open Hole		1894'-1949**		

Tubing Record:

2-3/8"	4.7# J-55	1856'	59 Jts
	SN @	1823'	

Formation Tops:

Ojo Alamo:	854'
Kirtland Shale:	1050'
Fruitland:	1675'
Pictured Cliffs:	1892'

Logging Record: 1953: Resistivity/SP, 1989: csg hole neutron

Stimulation: Shot PC open hole (1896'-49') w/125 qts SNG.

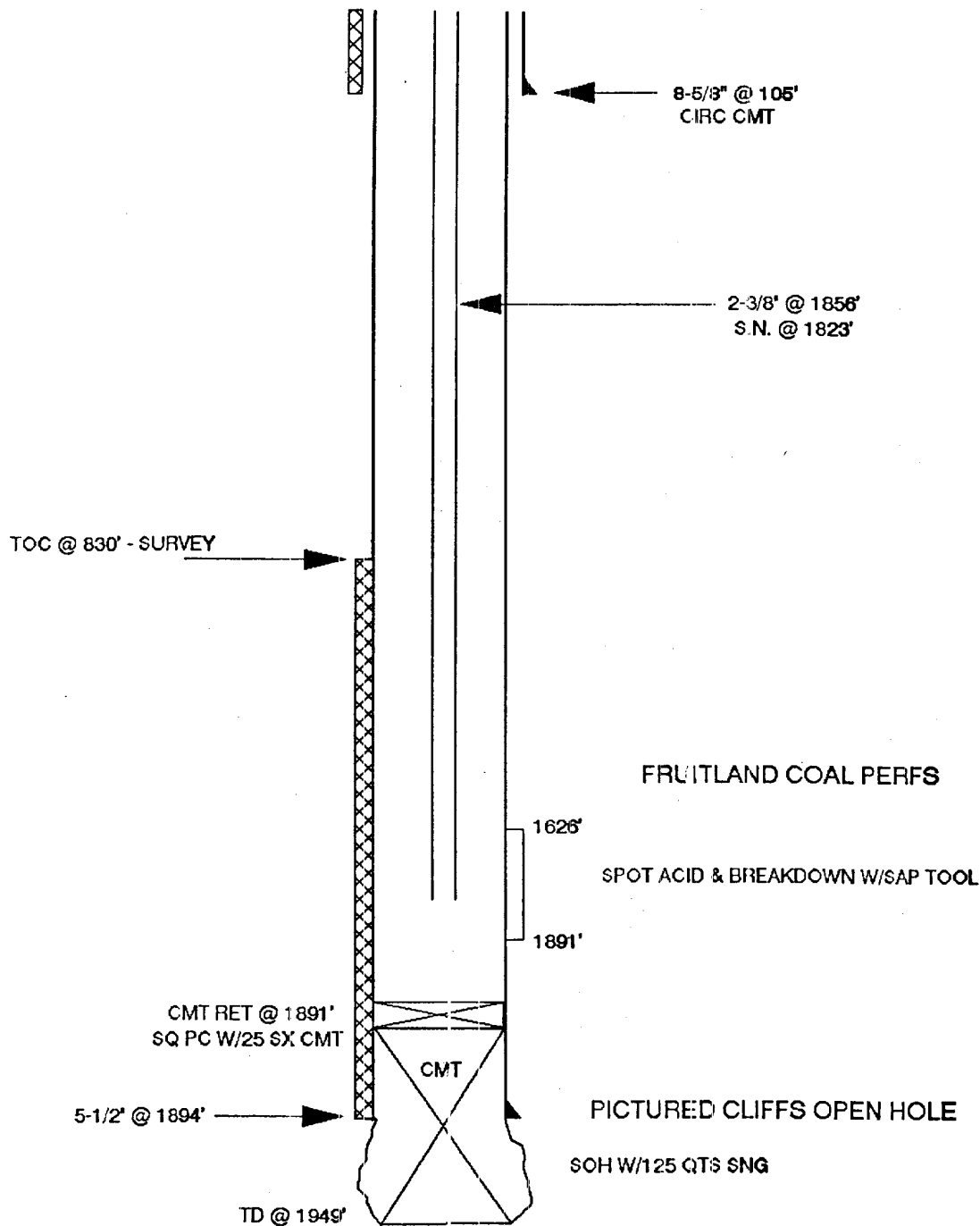
Workover History: 5/88: Set cmt ret @ 1886' & sq PC w/25 sx cmt. Ran neutron log & perfed FRTC @ 1669', 71', 1714', 16', 22', 57', 1846', 68', 78'. Total 9 holes. Acidized w/700 gal 15% HCL acid.
10/89: Tagged bottom @ 1891'. Spot 250 gal 7.5% HCL acid & reperfed FRTC @ 1626'-27', 1689'-91', 1725'-40', 1759'-72', 1861'-65', 1879'-81', 1885'-91' w/4 spf. Total 172 holes. BD w/SAP tool. 10-18-94: Installed pressure equipment below a pkr @ 1840'. 12/19/95: Removed pressure equipment & pkr.

Production History: PC cum = 148 MMCF. ISICP for PC (1953)= 522 psi. ISICP FOR FRTC (1988) = 319 psi. FRTC cum = 1131 MMCF. See attached production curve. The current line pressure is 130 psi. The current FRTC production is about 210 MCF/D. This well operates with a wellhead compressor that pulls the tbq pressure down to about 12 psi.

Pipeline: EPNG

ROWLEY D #1 FRTC

UNIT D SECTION 27 T27N R10W
SAN JUAN COUNTY, NEW MEXICO



 ROWLEY D 1 FRTC
 D 27 2210

