

submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BLM

Sundry Notices and Reports JAN 1 1997 PM 1:07

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

1450' FSL, 1085' FSL, Sec. 1, T-29-N, R-11-W, NM PM
W

070 FARMINGTON, NM

5. Lease Number

SF-078161

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

8. Well Name & Number

Lloyd B #600

9. API Well No.

30-045-27181

10. Field and Pool

Basin Fruitland Coal

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 - Pay add

13. Describe Proposed or Completed Operations

It is intended to add pay to the existing Fruitland Coal formation of the subject well according to the attached procedure and wellbore diagram.

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

Signed Regina Shadwell (PMP2) Title Regulatory Administrator Date 12/31/96

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

Date

APPROVED

CONDITION OF APPROVAL, if any:

JAN 06 1997

MR. [Signature]
DISTRICT MANAGER

LLOYD B #600 FRTC
Workover Procedure
L 1 29 11
San Juan County, N.M.
Lat-Long: 36.751312 - 107.947708

1. Comply to all NMOCD, BLM, & MOI rules & regulations. MOL and RU completion rig. NU 6" 900 series BOP w/flow tee and stripping head. NU blooie line & 2-7/8" relief line.
2. Lower 1-1/4" IJ tbg to tag fill. If fill is above 2174, **C.O. w/natural gas** to 2175'. Set blanking plug in "F" nipple of 1-1/4" tbg @ 1986' & pressure test tbg to 3000 psi. TOH w/64 jts 1-1/4" tbg.
3. Spot and fill 2-400 bbl. frac tanks w/1% KCL water. Filter all water to 25 microns. One tank is for gel & one tank for breakdown water. Usable water required for frac is 283 bbls.
4. Perf FRTC w/1 spf @ 2162'-59', 2095'-90', 1942'-36', 1865'-63', 1843'-42', 1834'-30', 1816'-14', 1770'-66', 1764'-62', 1759'-57', 1716'-14', 1708'-06', 1704'-02', 1626'-22'. Total 41 holes. Perf using 3-1/8" hollow steel carrier guns loaded w/Owen HSC 13 gm. charges phased at 180 degrees & 1 spf. Average perf dia. = 0.48". Average penetration is 18" in Berea.
5. Set 7" ret BP @ 1550' & top w/1 sx sand. Run & set 7" pkr on 2 jts 2-3/8" rental tbg & pressure test csg to 3200 psi. TOH. TIH w/ret tool on 2-3/8" tbg & ret ret BP @ 1550'. TOH.
6. TIH w/7" pkr on 2-3/8" rental tbg, set @ 1400'. Load backside w/1% KCL water. Pressure backside to 1000 psi & monitor during breakdown.
7. Breakdown & attempt to balloff FRTC w/1500 gal 10% Formic Acid/30% MEOH w/250 7/8" 1.3 sp gr RCN perf balls. Max. pressure is 4500 psi. Lower pkr to 2175' to knock off perf balls. TOH. Acid to contain per 1000 gal:

100 gal Formic acid	Organic acid
5 gal Tech stim 3523	Surfactant / Inhibitor
5 gal Ferrotrol-300I	Iron Control
428 gal Methanol	MEOH
8. Run 7" pkr on 2 jts 2-7/8" N-80 tbg to protect wellhead. MIRU BJ. Fracture treat FRTC down csg w/55,000 gals. of foam using 20# gel as the base fluid & 100,000# 20/40 Arizona sand. Pump at 70 BPM. Monitor bottomhole & surface treating pressures, rate, foam quality, & sand concentration with computer van. Sand to be tagged w/ 0.4 mCi/1000# Ir-192 tracer. Max. pressure is 3200 psi & estimated treating pressure is 2500 psi. Treat per the following schedule:

<u>Stage</u>	<u>Foam Quality</u>	<u>Foam Vol. (Gals.)</u>	<u>Gel Vol. (Gals.)</u>	<u>Sand Vol. (lbs.)</u>
Pad	100% (25 BPM)	5,000	0	---
Pad	85%	10,000	1,500	---
1.0 ppg	80%	10,000	2,500	10,000
2.0 ppg	75%	10,000	2,500	20,000
3.0 ppg	75%	10,000	2,500	30,000
4.0 ppg	75%	10,000	2,500	40,000
Flush	75%	(1,600)	(400)	0
Totals		55,000	11,500	100,000#

LLOYD B #600 FRTC - FRAC EXISTING FRTC

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

- * 20# GW-27 (Guar Gel mix in full tank - 16,000 gal)
- * 1.0# GBW-10 (Breaker mix on fly)
- * 1.0# GBW - 5 (Breaker mix on fly)
- * 5.0 gal FAW-1 (Foamer mix on fly)
- * 0.38# XCide-207 (Bactericide mix on full tank)

9. Open well through choke manifold & monitor flow. Flow @ 20 bbl/hr, or less if sand is observed. **Take pitot gauges when possible.**
10. Release pkr & TOH. TIH w/6-1/4" bit on 2-3/8" tbg & **clean out w/natural gas** to 2175'.
11. Monitor gas & water returns & **take pitot gauges when possible.**
12. When wellbore is sufficiently clean, TOH & run after frac gamma-ray log from 2175'-1300'.
13. TIH w/1-1/4" tbg w/standard seating nipple one joint off bottom & again cleanout to 2175'. When wellbore is sufficiently clean, land tbg @ 2000' KB. **Take final water & gas samples & rates.**
14. ND BOP & NU wellhead & tree. Rig down & release rig.

Recommended: 
Production Engineer


Approved: 
Drilling Superintendent

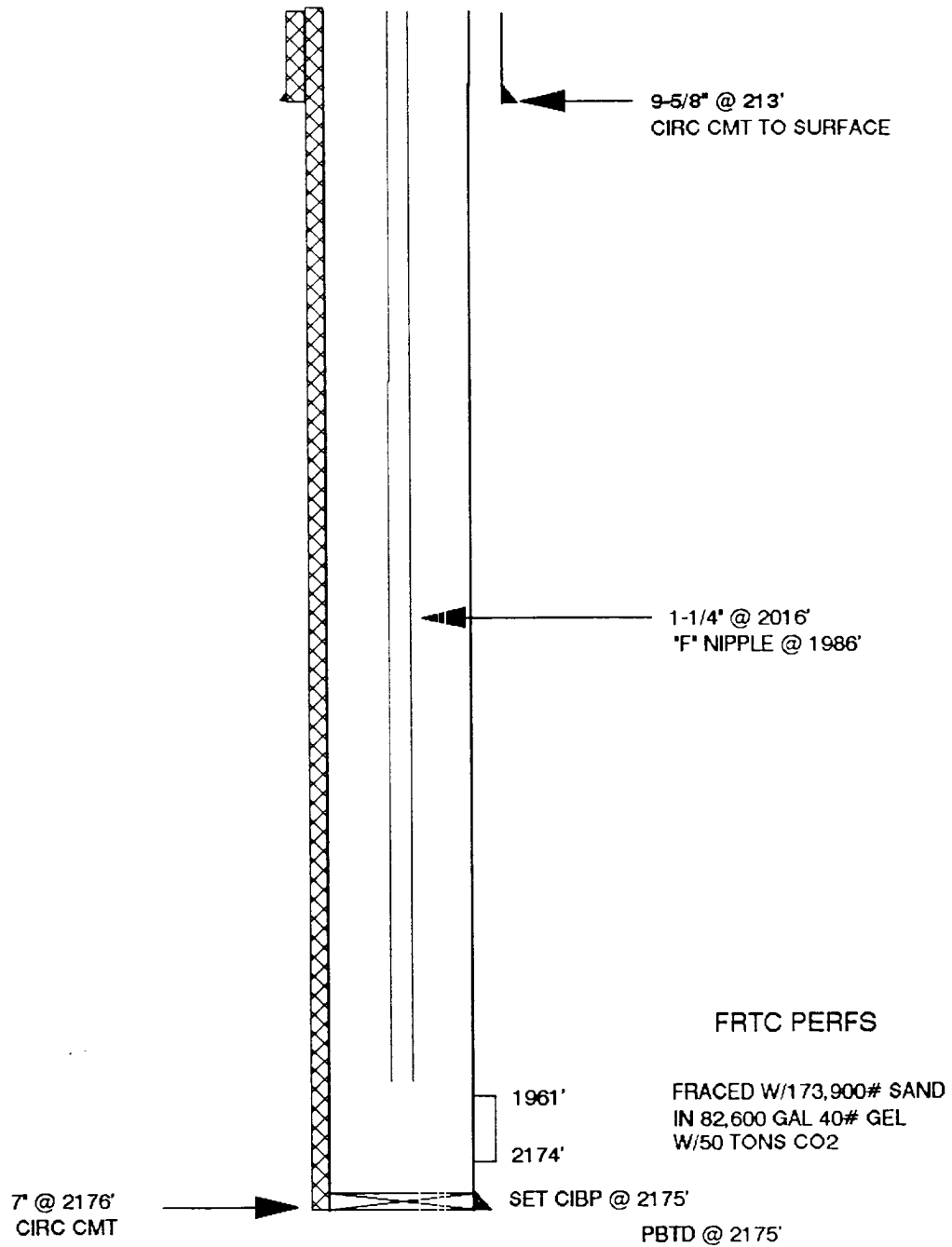
VENDORS:

Wireline:	Basin	327-5244
Fracturing:	BJ	327-6222
RA Tagging:	Pro-Technics	326-7133
Packers:	Schlum.	325-5006

PMP

LLOYD B #600 FRTC

UNIT L SECTION 1 T29N R11W
SAN JUAN COUNTY, NEW MEXICO



Pertinent Data Sheet - LLOYD B #600 FRTC

Location: 1450' FSL & 1085' FEL, Unit L, Section 1, T29N, R11W, San Juan County, New Mexico

Field: Basin Fruitland Coal **Elevation:** 5863' GL
12' KB **TD:** 2176'
PBTD: 2175'

Completed: 2/19/89 **Spud Date:** 12/20/88 **DP #:** 3538A
Lease: Fed: SF-078161
GWI: 100%
NRI: 82.50%
Prop#: 012595802

Initial Potential:
Pitot Gauge = 175 MCF/D

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>
12-1/4"	9-5/8"	32.3# H-40	213'	236 cf	Circ Cmt
8-3/4"	7"	20# K-55	2176'	601 cf	Circ Cmt

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	
1-1/4"	2.33# IJ	2016'	64 Jts
	"F" Nipple @	1986'	

Formation Tops:

Ojo Alamo:	899' '
Kirtland Shale:	1021'
Fruitland:	1898'
Pictured Cliffs:	2180' '

Logging Record: Density-Neutron, Induction, Spectrometry Log, CBL, After Frac GR

Completion & Stimulation: Drilled out to 2177'. Csg failed pressure test. Set CIBP @ 2175'. Csg passed pressure test. Perfed FRTC @ 1961'-63', 1968'-70', 1973'-76', 2005'-07', 2009'-21', 2028'-30', 2034'-39', 2064'-66', 2171'-74' w/ 2 spf (Total 66-0.5" holes) & fraced w/173,892# sand in 82,559 gal 40# gel w/50T CO2.

Workover History: 2/9/95: Ran pum on 3/4" rods & hooked up to pumping unit & wellhead compressor. Well made 70 BWPD for 2 days then only 5 BWPD & 2.5 MCF/D.
9/21/95: Removed rods, pump, pumping unit, & compressor. Installed 1-1/4" IJ tbg.

Production history: FRTC 1st delivered on 3/3/95. SIBHP=616 PSI @ 2150'. Cum = 4 MMCF. Current capacity = 0 MCF/D.

Pipeline: BROG