

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
BLM

Sundry Notices and Reports on Wells

DEC 27 PM 1:26

070 FARMINGTON, NM

1. Type of Well  
GAS

2. Name of Operator

**BURLINGTON  
RESOURCES**

OIL &amp; 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

1310' FNL, 2270' FEL, Sec. 20, T-29-N, R-10-W, NMPM

5. Lease Number

SF-078716A

6. If Indian, All. or  
Tribe Name

7. Unit Agreement Name

8. Well Name & Number

Hubbell Com #296

9. API Well No.

30-045-27291

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

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment

Type of Action

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other - Stimulate

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut off

☐ Conversion to Injection

13. Describe Proposed or Completed Operations

It is intended to stimulate the subject well in the Fruitland Coal formation according to the attached procedure and wellbore diagram.

RECEIVED  
JAN - 6 1997

OIL GAZ. 500  
DEC 10

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

Signed [Signature] (PMP2) Title Regulatory Administrator Date 12/17/96

(This space for Federal or State Office use)

APPROVED BY \_\_\_\_\_ Title \_\_\_\_\_

CONDITION OF APPROVAL, if any:

Date

**APPROVED**

DEC 30 1996

[Signature]  
DISTRICT MANAGER

HUBBELL COM #296 FRTC  
Workover Procedure  
B 20 29 10  
San Juan County, N.M.  
Lat-Long: 36.715149 - 107.906250

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 tbq to tag fill. If fill is above 1850, **C.O. w/natural gas** to 1875'. Set blanking plug in "F" nipple of 2-3/8" tbq @ 1794' & pressure test tbq to 3000 psi. TOH w/56 jts 2-3/8" tbq.
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. TIH w/5-1/2" pkr on 2-3/8" tbq, set @ 1850', & pressure test shoe to 3800 psi. Reset pkr @ 1400'. Load backside w/1% KCL water. Pressure backside to 2000 psi & monitor during breakdown.
5. Breakdown & attempt to balloff FRTC w/1000 gal 10% Formic Acid/30% MEOH w/105 7/8" 1.3 sp gr RCN perf balls. Max. pressure is 4500 psi. Lower pkr to 1830' 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
6. If MBIT not available, run 5-1/2" pkr on 2 jts 2-7/8" N-80 tbq 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 3800 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#

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 (Bacteriacide mix on full tank)

7. Open well through choke manifold & monitor flow. Flow @ 20 bbl/hr. or less if sand is observed. Take pitot gauges when possible.
8. Release pkr & TOH w/frac string. TIH w/4-3/4" bit on 2-3/8" tbg & **clean out w/natural gas** to 1875'.
9. Monitor gas & water returns & take pitot gauges when possible.
10. When wellbore is sufficiently clean, TOH & run after frac gamma-ray log from 1875'-1400'.
11. TIH w/2-3/8" tbg w/standard seating nipple one joint off bottom & again cleanout to 1875'. When wellbore is sufficiently clean, land tbg @ 1700' KB. Take final water & gas samples & rates.
12. ND BOP & NU wellhead & tree. Rig down & release rig.

*Arden Walker Jr. 12/10/96*

Recommended: *[Signature]*  
Production Engineer

Approved: *[Signature]* 12/12/96  
Drilling Superintendent

VENDORS:

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

PMP

**Pertinent Data Sheet - HUBBELL COM #296 FRTC**

**Location:** 1310' FNL & 2270' FEL, Unit B, Section 20, T29N, R10W, San Juan County, New Mexico

**Field:** Basin Fruitland Coal

**Elevation:** 5598' GL  
12' KB

**TD:** 1879'

**PBTD:** 1875'

**Completed:** 5/28/89

**Spud Date:** 4/22/89

**DP #:** 3717A

**Lease:** Fed: SF-078716A

**GWl:** 100%

**NRI:** 80.73%

**Prop#:** 071076200

**Initial Potential:**

Pitot Gauge = 112 MCF/D

**Casing Record:**

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. &amp; Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Cement (Top)</u>
12-1/4"	9-5/8"	36# K-55	234'	150 sx	Circ 3 Bbl Cmt
8-3/4"	5-1/2"	15.5# J-55	1879'	520 sx	Circ 35 Bbl Cmt
		12' Marker Jt @ 1564'			

**Tubing Record:**

<u>Tbg. Size</u>	<u>Wt. &amp; Grade</u>	<u>Depth Set</u>	
2-3/8"	4.70# J-55	1829'	56 Jts
	"F" Nipple @	1794'	

**Formation Tops:**

Ojo Alamo:	746' '
Kirtland Shale:	870'
Fruitland:	1600'
Pictured Cliffs:	2180' '

**Logging Record:** Density-Neutron, Induction, Spectrometry Log, CBL, GST Log, Microlog.

**Completion & Stimulation:** Perfed upper coal w/1 spf @ 1622', 54', 64', 70', 73'. Total 5 holes. Broke down & balled off w/water. Perfed lower coal w/2 spf @ 1725'-36', 1784'-88', 1793'-95', 1820'-22'. Total 38 holes. Fraced w/28,000 gal 30# gel & 15 Tons CO<sub>2</sub>. **NO SAND.**

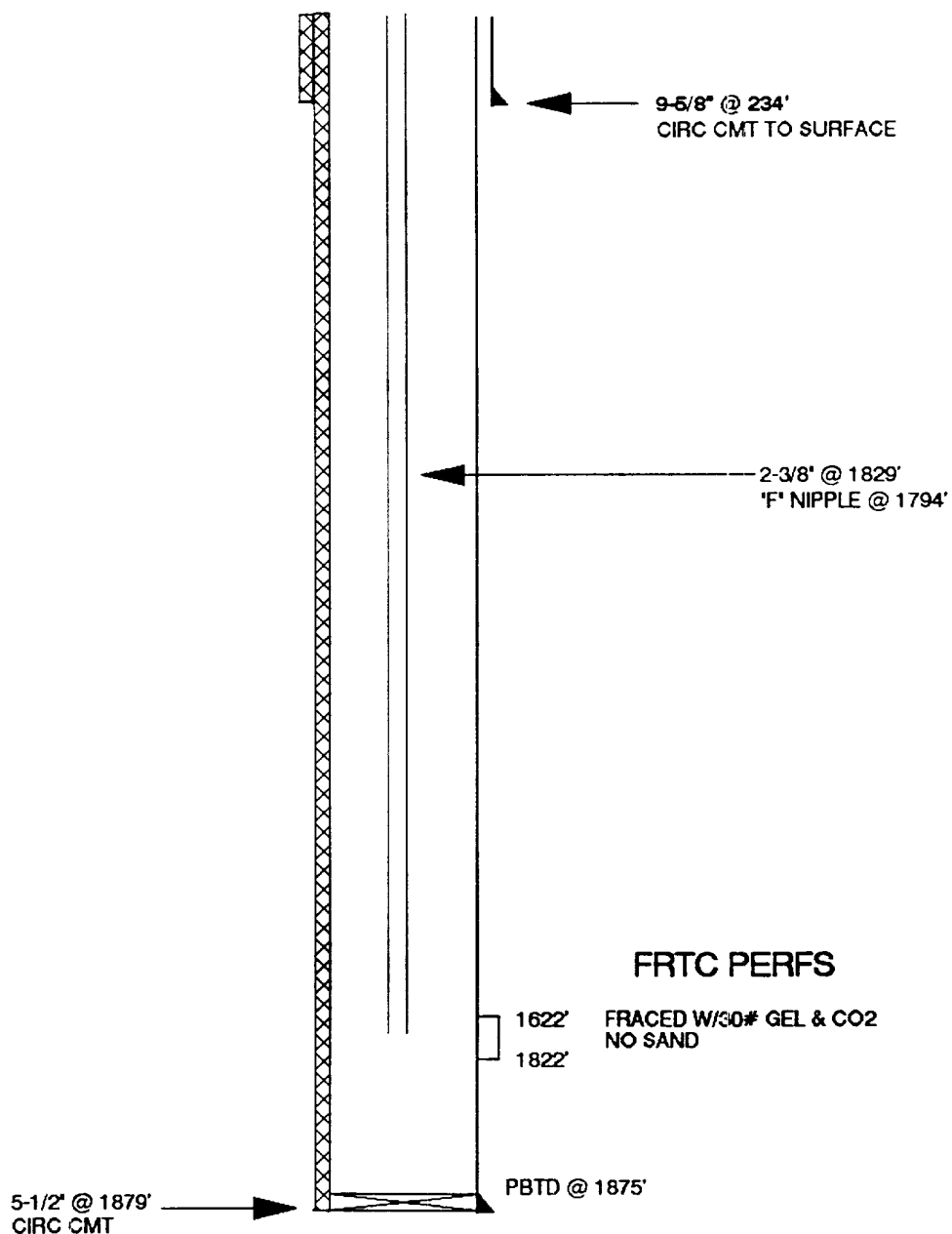
**Workover History:** None

**Production history:** FRTC 1st delivered on 12/15/89. SIBHP=483 PSI @ 1825'. Cum = 98 MMCF. Remaining Booked Reserves=259 MMCF. Current capacity = 60 MCF/D.

**Pipeline:** EPNG

# HUBBELL COM #296 FRTC

UNIT B SECTION 20 T29N R10W  
SAN JUAN COUNTY, NEW MEXICO



HUBBELL COM-296  
FRTC  
B 20 29 10

HHV 100 cu. ft.

1 shot  
ca.

1700

2 spf

6"

250

HHV 10 cu. ft.

4"

2'

1800

CAL I

2 2'

REF

RHILL

TENS

SPILLWAY

SPILL

ICD



**LTR**



**Job separation sheet**

submitted in lieu of Form 3160-5

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1-30-97 MIRU. ND WH. NU BOP. TIH, tag bottom. TOOH w/56 jts 2 3/8" tbgs. TIH w/5 1/2" FB pkr, set @ 1400'. SD for Friday, WO frac crew.  
2-1-97 Reset pkr @ 1850'. Load tbgs w/1% Kcl wtr. PT csg to 3800 psi, OK. Reset pkr to 1399'. Load backside w/1% Kcl wtr. Pressure up to 2000 psi. Acidize w/10% formic acid. Reset pkr @ 60'. Frac Fruitland Coal w/256 bbl 20# linear gel, 107,000# 20/40 Arizona sd, 667,000 SCF N2. CO after frac. SD for Sunday.  
2-3-97 Release pkr, TOOH. TIH, blow well & CO. SDON.  
2-4/5-97 Blow well & CO. SDON.  
2-6-97 Blow well & CO. TOOH. TIH, ran after frac logs @ 1875-1350'. TOOH. TIH w/53 jts 2 3/8" 4.7# J-55 tbgs, landed @ 1724'. ND BOP. NU WH. RD. Rig released.

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

Signed [Signature] Title Regulatory Administrator Date 2/11/97

(This space for Federal or State Office use)

APPROVED BY \_\_\_\_\_ Title \_\_\_\_\_

CONDITION OF APPROVAL, if any: \_\_\_\_\_

Date

**ACCEPTED FOR RECORD**

FEB 14 1997

FARMINGTON DISTRICT OFFICE