

submitted in lieu of Form 3160-5

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

16⁵/₅0' FSL, 990' FEL, Sec. 25, T-27-N, R-9-W, NMPM

5. Lease Number

NM-011285-A

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

8. Well Name & Number

Gentle H L #1

9. API Well No.

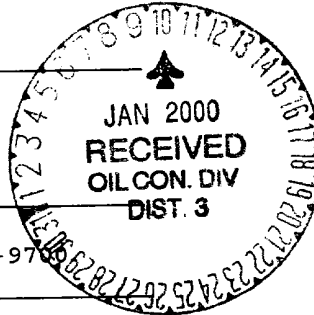
30-045-06225

10. Field and Pool

Fulcher 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

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment

Type of Action

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other -P&A PC, Restimulate FTC

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut off

☐ Conversion to Injection

13. Describe Proposed or Completed Operations

It is intended to plug and abandon the PC and frac the subject well according to the attached procedure and wellbore diagram.

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

Signed Gregory Cole Title Regulatory Administrator Date 12/20/99
trc

(This space for Federal or State Office use)

APPROVED BY Chip Hanada Title Acting Team Lead Date 1/6/00

CONDITION OF APPROVAL, if any:

NMOC

GENTLE HL #1 FRTC
Workover Procedure
I 25 27 9
San Juan County, N.M.
Lat-Long: 36 – 32.58 & 107 – 44.04

PROJECT SUMMARY: Foam frac the FRTC in this 1953 vintage well that was recompleted to the FRTC (natural) in 1990. We also plan to first drill out the CIBP between the PC and FRTC, set a cmt ret in its place and ~~squeeze~~ ^{frack} the PC with cmt.

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. TOH w/63 jts 2-3/8" tbg. TIH w/4-3/4" bit on 2-3/8" tbg. Drill & CO drillable BP w/air/mist to below 5-1/2" shoe @ 2056'. TOH.
3. TIH w/5-1/2" cmt ret on 2-3/8" tbg and set @ 2050'. Establish rate and sq PC open hole w/20 sx cl "B" cmt. This will cover open hole and csg below ret w/100% excess cmt.
Note: Pump a maximum of 20 sx cmt. Sting out of cmt ret and reverse out to make certain no cmt gets into FRTC perms.
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 @ 1900'. (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 4097 psi. (Pipe friction is 2973 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	(694)	(208)	0
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:


- | | |
|----------------------|--|
| * 20# 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) |

GENTLE HL #1 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 2050' 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 and perf eff. log from 2050'-1800'.
11. TIH w/2-3/8" tbg w/standard seating nipple one joint off bottom and again cleanout to 2050'. When wellbore is sufficiently clean, land tbg @ 2000' KB. Take final water and gas rates.
12. ND BOP and NU wellhead and tree. Rig down and release rig.

Recommended:  12/2/99
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

12/07/19992

GENTLE HL #1 FRTC

UNIT 1 SECTION 25 T27N R9W
SAN JUAN COUNTY, NEW MEXICO

