

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division

Sundry Notices and Reports on Wells

1. Type of Well
GAS

API # (assigned by OCD)
30-045-27162

5. Lease Number

2. Name of Operator

**BURLINGTON
RESOURCES**

OIL & GAS COMPANY

6. State Oil&Gas Lease #
E-1199-1

7. Lease Name/Unit Name

Huerfanito Unit NP

8. Well No.
#151

3. Address & Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

9. Pool Name or Wildcat
Basin Fruitland Coal

4. Location of Well, Footage, Sec., T, R, M

950' FNL, 1190' FEL, Sec. 26, T-27-N, R-9-W, NMPM, San Juan County, NM

10. Elevation:

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 -

13. Describe Proposed or Completed Operations

It is intended to sidetrack through this FRTC well's 7' casing, run and cement 4 1/2" casing, and perf and foam frac the FRTC according to the attached procedure and wellbore diagram.

DEC 22 1999

OIL CON. DIV.
DEC 22 1999

SIGNATURE

Peggy Cole

Regulatory Administrator December 20, 1999

trc

(This space for State Use)

Approved by

ORIGINAL SIGNED BY CHARLES T. PETERSON

Title

DEPUTY OIL & GAS INSPECTOR, DIST. #3

Date

DEC 22 1999

HUERFANITO UNIT #151 FRTC
Workover Procedure
A 36 27 9
San Juan County, N.M.
Lat-Long: 36 – 32.16 & 107 – 44.08

PROJECT SUMMARY: Sidetrack this 1988 vintage FRTC well, run and cmt 4-1/2" csg, and perf and foam frac the FRTC. An open hole cavitation completion was originally attempted on this well.

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 w/ 2-3/8" tbg. Establish rate and pump 25 sx cmt. This is 100% excess to fill old open hole. PU to 1850' & reverse out. TOH.
3. TIH w/7" csg scraper on 2-3/8" tbg to 1450'. Pressure test to 1500 psi. TOH.
4. Run CCL. Set 7" CIBP @ 1300' on wireline. TIH w/7" whipstock, 6-1/4" mill on 2-3/8" tbg and cut window in 7" csg @ 1300'. Dress off window w/ string mill. Drill w/ fluid to new TD 2067'. Condition hole & TOH.
5. Run 4-1/2" 10.5# K-55 (class "B") csg to TD 2067' w/10' shoe joint & notched collar on bottom. Land csg in tbg head & install KTH attachment spool.
6. Cmt w/140 sx 65-35 CI "G" POZ (226 cf) w/6% gel, 2% CaCl₂, 1/4 pps cellophane, and 5#/sx Gilsonite. Tail w/50 sx CI "B" (60.2 cf) w/2% CaCl₂ w/ 5 pps Gilsonits. This is 100% excess for the open hole and 0% excess between the csqs. WCC overnight.
7. 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 723 bbls.
8. TIH w/2-3/8" tbg to PBTD. Roll hole w/1% KCL water & pressure test csg to 3800 psi. Spot 200 gal 15% HCL acid across perms ~2020' to ~1900'. TOH.
All acid on this well to contain the following additives per 1000 gal:

2 gal	CI-22	corrosion inhibitor
5 gal	Ferrotrol-300L	iron control
1 gal	Flo-back 20	Surfactant
0.5 gal	Clay Master-5C	clay control
9. Run csg hole neutron log & correlate to attached open hole log. Perf about 50' of FRTC w/2 spf from about 2020' to 1900'. Perf using 3-1/8" hollow steel carrier guns loaded w/Owen HSC 13 gm. charges phased at 90 degrees. Average perf dia. = 0.48". Average penetration is 18" in Berea.
10. TIH w/4-1/2" pkr on 2-3/8" and set about 1800'. W/ 1000 ps on annulus, breakdown and attempt to balloff FRTC perms w/1500 gal 15% HCL acid and 150% excess RCN 7/8" 1.3 sp gr perf balls. Use same acid additives as in step #8. Max. pressure is 4550 psi. Lower pkr to 2030' to knock off perf balls. TOH.
11. Install MB wellhead isolation tool. Fracture treat FRTC down csg w/100,000 gals. of 70 quality foam using 20# gel as the base fluid and 200,000# 20/40 Arizona sand. Pump at

HUERFANITO UNIT #151 FRTC – SIDETRACK IN 7" CSG, RUN & C MT 4-1/2" CSG, & PERF & FRAC FRTC

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 3800 psi and estimated treating pressure is 2360 psi. Treat per the following schedule:

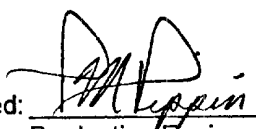
Stage	Foam Vol. (Gals.)	Gel Vol. (Gals.)	Sand Vol. (lbs.)
Pad	20,000	6,000	—
1.0 ppg	20,000	6,000	20,000
2.0 ppg	20,000	6,000	40,000
3.0 ppg	20,000	6,000	60,000
4.0 ppg	20,000	6,000	80,000
Flush	(1,272)	(381)	0
Totals	100,000	30,000	200,000#

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 | (Bactericide mix on full tank) |

12. Open well through choke manifold and monitor flow. Flow @ 20 bbl/hr, or less if sand is observed. Take pitot gauges when possible.
13. TIH w/notched collar on 2-3/8" tbg and clean out to PBTD w/ air/mist.
14. Monitor gas and water returns and take pitot gauges when possible.
15. When wellbore is sufficiently clean, TOH and run after frac gamma-ray log and perf eff. log from PBTD-1800'.
16. TIH w/2-3/8" tbg w/standard seating nipple one joint off bottom and again cleanout to PBTD. When wellbore is sufficiently clean, land tlg @ 1950 KB. Take final water and gas rates.
17. ND BOP and NU wellhead and tree. Rig down and release rig.

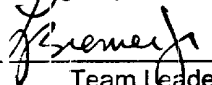
Recommended:

 12/14/99
Production Engineer

Approved:

 12-14-99
Drilling Superintendent

Approved:

 12/15/99
Team Leader

VENDORS:

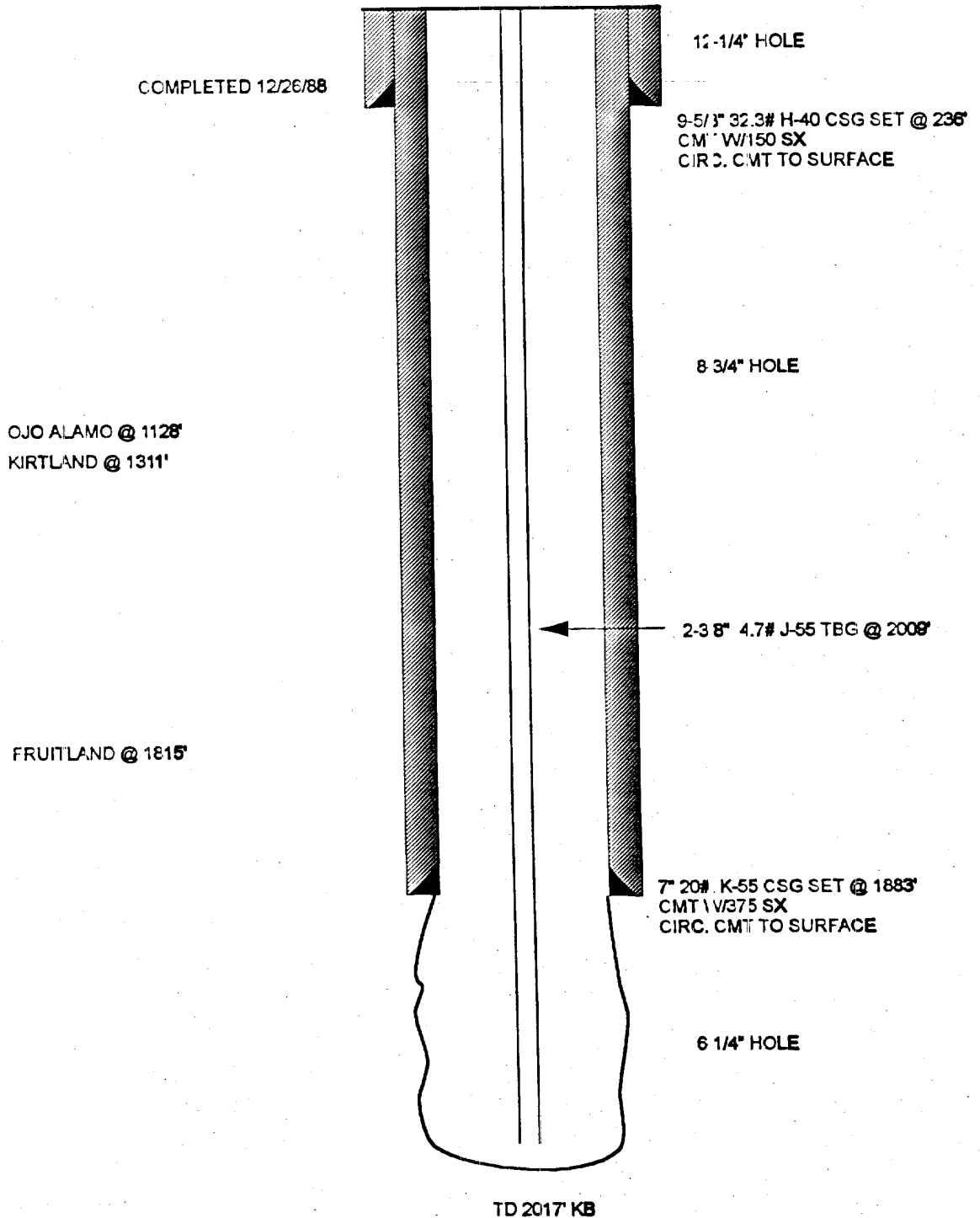
Wireline:	Basin	327-5244
Fracturing:	Howco	325-3575
RA Tagging:	Pro-Technics	326-7133
Packers:	Schlum.	325-5006

PMP

12/14/19992

Huerfanito Unit NP #151

BASIN FRUITLAND COAL
UNIT A, SECTION 36, T27N, R09W, SAN JUAN COUNTY, NM



Stretch (SIIT) 0 (F) 50	(SGR) (GAPI) 0 200	Hole Diameter 2 (HD2) (IN) 0 40	(HDMX) (IN) 0 0
EMS Fixed Caliper Flag (EFCF) 0 0 22	Deviation (SDEV) (DEG) 0 50	Hole Diameter 1 (HD1) (IN) 0 40	Bit Size (BS) (IN) 0 0

HITO 131 FATC

A 26 27 9

