

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

2200' FSL, 1175' FWL, Sec. 27, T-29-N, R-11-W, NMPM

5. Lease Number  
SF-047020-B

6. If Indian, All. or  
Tribe Name

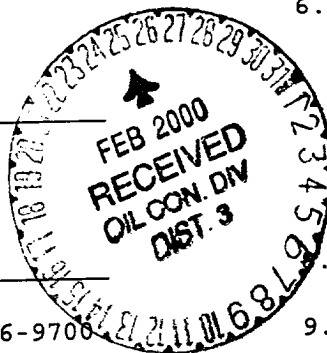
Unit Agreement Name

Well Name & Number  
Mangum #1

9. API Well No.  
30-045-07835

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 -

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut off

☐ Conversion to Injection

13. Describe Proposed or Completed Operations

It is intended to plugback the Dakota formation and recomplete in the Fruitland Coal according to the attached procedure and wellbore diagram.

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

Signed Regan Cole Title Regulatory Administrator Date 1/24/00  
trc

(This space for Federal or State Office use)

APPROVED BY 18/ Charlie Beecham Title \_\_\_\_\_ Date FEB 24 2000

CONDITION OF APPROVAL, if any:

chc

NMOCD

District I  
PO Box 1980, Hobbs, NM 88241-1980  
District II  
PO Drawer DD, Artesia, NM 88211-0719  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

Form C-102  
Revised February 21, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-07835		Pool Code 71629/71599	Pool Name Basin Fruitland Coal/Basin Dakota
Property Code 7282	Property Name Mangum		Well Number 1
OGRID No. 14538	Operator Name Burlington Resources Oil & Gas Company		Elevation 5505' GR

Surface Location

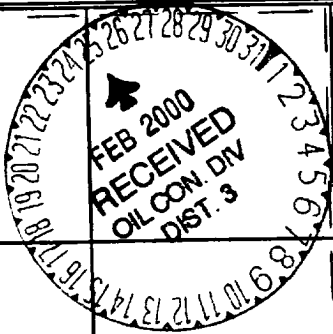

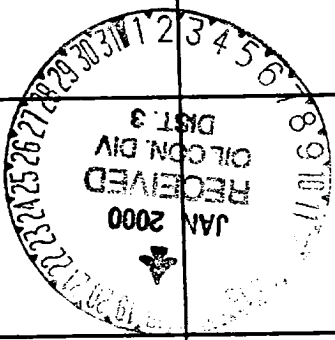
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	27	29N	11W		2200'	South	1175'	West	SJ

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated/Assigned FIC-W/320 DK- W/320	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	Original plat from James P. Leese 11-28-62		<b>17 OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief   Signature Peggy Cole Printed Name Regulatory Administrator Title 1-18-00 Date
			
1175' 2200'			<b>18 SURVEYOR CERTIFICATION</b> I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  Date of Survey Signature and Seal of Professional Surveyer:  Certificate Number

MANGUM #1 FRTC  
Workover Procedure  
L 27 29 11  
San Juan County, N.M.  
Lat-Long: 36 – 41.73 & 107 – 59.01

**PROJECT SUMMARY:** Plugback from the Dakota and recomplete to the Fruitland Coal in this 1962 vintage well. The FRTC will be foam fraced through a frac string.

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/189 jts 1-1/2" tbg. TIH w/4-1/2" cmt ret on 1-1/2" tbg & set @ 6020'. Sq DK perfs w/25 sx cl "G" cmt. This will fill inside the pipe from 6176' to 6020' w/100% excess cmt. Sting out of ret and spot 5 sx cmt on top of cmt ret @ 6020'. Reverse out cmt.
3. PU 1-1/2" tbg to 5293' (50' below top of Gallup). Spot 12 sx cmt. This will fill inside 4-1/2" csg 50' above and below the top of Gallup w/50% excess cmt. PU to 5100' and reverse out cmt. TOH.
4. Perf 2 sq holes @ 3290' (50' below top of MV). Attempt to establish rate into sq holes down csg at less than 500 psi. TIH w/4-1/2" cmt ret on 1-1/2" tbg and set @ 3190' (50' above top of MV). Sq perfs w/41 sx cmt. This will fill outside and inside 4-1/2" csg 50' above and below the top of MV w/50% excess cmt. Sting out of cmt ret and spot 5 sx cmt on top ret. PU and reverse out cmt. TOH.
5. MI Blue Jet. Set 4-1/2" top drillable BP @ 1800' on wireline. Pressure test 4-1/2" csg and BP to 500 psi. Run CBL from 1800' (stg tool @ 1839') to top of cmt in 4-1/2" csg and an advanced integrated data processed GSL neutron log 1800'-1300' and correlate to attached open hole logs. Pressure csg to 1000 psi if necessary to see bond. Hot-shot logs to Mike Pippin (326-9848) so perfs can be picked.
6. TIH w/1-1/2" tbg open ended and spot 220 gal 15% HCL acid 1340'-1659'  
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
7. Using GSL log, Perf about 30' of FRTC w/2 spf from about 1340' to 1659'. 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.
8. 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 717 bbls.
9. TIH w/4-1/2" pkr on 2-7/8" 6.5# N-80 w/shaved collars (3.5" O.D. 2.441" I.D.) rental frac string (run 2 jts 2-3/8" N-80 on top of pkr) and set 200' above top perf. W/ 500 psi on annulus, breakdown and attempt to balloff FRTC perfs 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 #6. Max. pressure is 4550 psi. Lower pkr to 1660' to knock off perf balls. Reset pkr 50' above top perf.

MANGUM #1 FRTC - RECOMPLETE TO FRUITLAND COAL

10. 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 40 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 5156 psi. (Pipe friction is 3982 psi @ 50 BPM). 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	( 325)	( 97)	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)          |

11. Open well through choke manifold and monitor flow. Flow @ 20 bbl/hr, or less if sand is observed. Take pitot gauges when possible.
12. Release pkr and TOH w/frac string. TIH w/notched collar on 1-1/2" tbg and clean out to 1800' w/air/mist.
13. Monitor gas and water returns and take pitot gauges when possible.
14. When wellbore is sufficiently clean, TOH and run after frac gamma-ray log and perf eff. log from 1800'-1300'.
15. TIH w/1-1/2" tbg w/standard seating nipple one joint off bottom and again cleanout to 1800'. When wellbore is sufficiently clean, land tbg @ 1600' KB. Take final water and gas rates.
16. ND BOP and NU wellhead and tree. Rig down and release rig.

Recommended: [Signature]  
Production Engineer

Approved: F. Seidel by J.E. Myer  
Drilling Superintendent

Approved: [Signature]  
Team Leader

VENDORS:

Wireline:	Blue Jet	325-5584
Fracturing:	Howco	325-3575
RA Tagging:	Pro-Technics	326-7133
Packers:	Schlum.	325-5006

PMP

# MANGUM #1 FRTC

UNIT L SECTION 27 T29N R11W  
SAN JUAN COUNTY, NEW MEXICO

PROPOSED

