

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

Sundry Notices and Reports on Wells

2004 FEB -4 PM 3:25

1. Type of Well
GAS

5. Lease Number
SF-078135
070 Farmington, NM
6. If Indian, All. or
Tribe Name

2. Name of Operator

**BURLINGTON
RESOURCES**

OIL & GAS COMPANY

7. Unit Agreement Name
Huerfanito Unit

3. Address & Phone No. of Operator

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

8. Well Name & Number
Huerfanito Unit 87M

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

1360' FSL, 2265' FEL, Sec. 1, T-26-N, R-9-W, NMPM

9. API Well No.
30-045-30309 31840
10. Field and Pool
Blanco MV/Basin DK

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

| | | |
|--|--|--|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Abandonment | <input type="checkbox"/> Change of Plans |
| <input type="checkbox"/> Subsequent Report | <input type="checkbox"/> Recompletion | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Final Abandonment | <input type="checkbox"/> Plugging Back | <input type="checkbox"/> Non-Routine Fracturing |
| | <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Water Shut off |
| | <input type="checkbox"/> Altering Casing | <input type="checkbox"/> Conversion to Injection |
| | <input checked="" type="checkbox"/> Other APD Change | |

13. Describe Proposed or Completed Operations

It is intended to change the APD Operations Cement Plan by decreasing^{ing} slurry weight (PPG) in order to prevent lost circulation while cementing. Attached is a copy of the new cement plan.

stage collar @ 4200'

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

Signed Frances Bend Title Regulatory Assistant Date 02/04/04

fsb

(This space for Federal or State Office use)

APPROVED BY Ami Jovato Title Petr. Eng. Date 2/10/04

CONDITION OF APPROVAL, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NMOC

Operator Name: Burlington Resources Oil & Gas
Well Name: HUERFANITO UNIT 87M
Job Description: 4 1/2-inch LS 2 Stg Option
Date: February 3, 2004



Proposal No: 216454316A

FLUID SPECIFICATIONS

STAGE NO.: 1

Spacer 10.0 bbls Gel Water + 5 lbs/bbl Bentonite -
 Sacked + 100% Fresh Water @ 8.4 ppg
 Spacer 2.0 bbls Fresh Water @ 8.34 ppg

| <u>FLUID</u> | <u>VOLUME CU-FT</u> | <u>VOLUME FACTOR</u> | <u>AMOUNT AND TYPE OF CEMENT</u> |
|---------------|-------------------------|--------------------------|--|
| Cement Slurry | 779 | 2.32 | = 335 sacks Premium Lite High Strength FM + 0.7% bwoc FL-52 + 0.2% bwoc CD-32 + 3 lbs/sack CSE + 4 lbs/sack Pheno Seal + 125.2% Fresh Water |
| Displacement | | | 45.0 bbls Fresh Water @ 8.34 ppg |
| Displacement | | | 60.1 bbls Drilling Mud @ 8.9 ppg |

CEMENT PROPERTIES

SLURRY NO. 1

Slurry Weight (ppg) 12.00
 Slurry Yield (cf/sack) 2.32
 Amount of Mix Water (gps) 12.59
 Estimated Pumping Time - 70 BC (HH:MM) 4:00
 Free Water (mls) @ 80 ° F @ 90 ° angle 0.3
 Fluid Loss (cc/30min)
 at 1000 psi and 144 ° F 308.0

COMPRESSIVE STRENGTH

24 hrs @ 200 ° F (psi) 1450
 48 hrs @ 200 ° F (psi) 1665

RHEOLOGIES

| <u>FLUID</u> | <u>TEMP</u> | <u>600</u> | <u>300</u> | <u>200</u> | <u>100</u> | <u>6</u> | <u>3</u> |
|---------------|-------------|------------|------------|------------|------------|----------|----------|
| Cement Slurry | @ 80 ° F | 72 | 43 | 33 | 21 | 6 | 5 |

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FLUID SPECIFICATIONS (Continued)

STAGE NO.: 2

Spacer 10.0 bbls Fresh Water @ 8.34 ppg
 Spacer 10.0 bbls Mud Clean II @ 8.45 ppg

| FLUID | VOLUME CU-FT | VOLUME FACTOR | AMOUNT AND TYPE OF CEMENT |
|-----------------|-----------------|------------------|--|
| Spacer | | | 10.0 bbls Fresh Water @ 8.34 ppg |
| 2nd Lead Slurry | 718 | / 2.32 | = 310 sacks Premium Lite FM + 3% bwoc Calcium Chloride + 0.25 lbs/sack Cello Flake + 5 lbs/sack LCM-1 + 0.4% bwoc FL-52 + 8% bwoc Bentonite + 0.4% bwoc Sodium Metasilicate + 126.1% Fresh Water |
| 2nd Tail Slurry | 600 | / 2.28 | = 263 sacks Premium Lite High Strength FM + 0.25 lbs/sack Cello Flake + 6.25 lbs/sack LCM-1 + 1% bwoc FL-52 + 0.3% bwoc CD-32 + 2% bwoc Calcium Chloride + 118.9% Fresh Water |
| Displacement | | | 67.0 bbls Fresh Water @ 8.34 ppg |
| Top-Out Slurry | 53 | / 2.13 | = 25 sacks Premium Lite FM + 3% bwoc Calcium Chloride + 0.25 lbs/sack Cello Flake + 5 lbs/sack LCM-1 + 0.4% bwoc FL-52 + 8% bwoc Bentonite + 0.4% bwoc Sodium Metasilicate + 112.3% Fresh Water |

CEMENT PROPERTIES

| | SLURRY NO. 1 | SLURRY NO. 2 | SLURRY NO. 3 |
|---|-----------------|-----------------|-----------------|
| Slurry Weight (ppg) | 11.80 | 12.00 | 12.10 |
| Slurry Yield (cf/sack) | 2.32 | 2.28 | 2.13 |
| Amount of Mix Water (gps) | 12.67 | 11.95 | 11.29 |
| Estimated Pumping Time - 70 BC (HH:MM) | 5:00 | 3:46 | |
| Free Water (mls) @ 80 ° F @ 90 ° angle | 1.9 | | |
| Fluid Loss (cc/30min) at 1000 psi and 98 ° F | 670.0 | | |
| COMPRESSIVE STRENGTH | | | |
| 24 hrs @ 130 ° F (psi) | 350 | | |
| 48 hrs @ 130 ° F (psi) | 650 | | |

RHEOLOGIES

| FLUID | TEMP | 600 | 300 | 200 | 100 | 6 | 3 |
|-----------------|----------|-----|-----|-----|-----|----|----|
| 2nd Lead Slurry | @ 80 ° F | 44 | 30 | 26 | 21 | 18 | 17 |
| 2nd Tail Slurry | @ 80 ° F | 137 | 82 | 62 | 38 | 10 | 9 |