

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

1650' FSL, 990' FWL, Sec. 9, T-30-N, R-10-W, NMPM

5. Lease Number
SF-077730

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

8. Well Name & Number
Sunray E #2

9. API Well No.
30-045-09662

10. Field and Pool
Blanco PC/Blanco MV

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 - squeeze

☐ Change of Plans

☐ New Construction

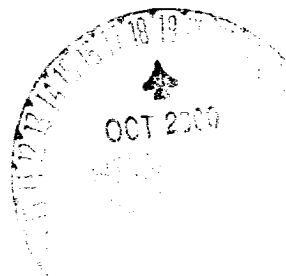
☐ Non-Routine Fracturing

☐ Water Shut off

☐ Conversion to Injection

13. Describe Proposed or Completed Operations

It is intended to squeeze off water production in the Mesaverde formation of the subject well according to the attached procedure and wellbore diagram.



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

Signed [Signature] Title Regulatory Supervisor Date 10/9/00
TLW

(This space for Federal or State Office use)

APPROVED BY _____ Title _____ Date 10/16/00

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.

AMOC1

Sunray E #2
Menefee / Cliff House Cement Squeeze Procedure
1650' FSL, 990' FWL
Unit L Sec. 9, T-30-N, R-10-W
San Juan County, NM

Project Summary:

The Sunray E #2 is a 2000 Lewis, Cliff House and Menefee payadd that was performed in combination with a PC Re-stimulation in July of 2000. During the workover operations the PC tested +/- 150 MCPD and the Lewis had a pitot gauge of 363 MCFPD, before water production was encountered from the Mesaverde intervals. Two cement squeezes were performed to shut off water production from the Cliff House. Since that time, the well has experienced fluid loading problems with the commingled wellbore and cannot produce to line pressure

Completion Procedure:

The following procedure details the proposed operations isolate and squeeze off water production. Following this work, the production streams from the Mesaverde, Lewis and PC will be commingled.

Comply with all NMOCD, BLM and BR regulations. Conduct daily safety meetings for all personnel on location. **Notify BR regulatory (Peggy Cole 326-9727)** and the appropriate Regulatory Agency prior to pumping any cement job and after CBL is run. If an unplanned cement job is required, **approval is required before the job can be pumped. If verbal approval is obtained, document the approval in Dims.** Allow adequate notice prior to the pump time for the Agency to witness the cementing operation.

- Inspect location and wellhead and install rig anchors prior to rig move.
 - Construct blow pit.
1. MOL, hold safety meeting and RU completion rig. Insure all safety equipment is strategically located and functioning properly. NU relief lines to blow pit. Blow well down and kill with 2% KCl water as necessary. ND wellhead. NU BOP, stripper head and blooie line. Test BOP.
 2. TOOH w/ 169 jts. 2-3/8" 4.7# J-55 tubing landed at 5340' and stand back.
 3. RU wireline. Set CIBP @ $\pm 5000'$. TIH with 5-1/2" packer on 2-3/8" tubing. Load hole with 50 bbls of 2% KCL water. Set packer @ $\pm 4950'$ (Bottom Menefee perf @ 4908'). Pressure test CIBP to 4100 psi. Bleed off pressure.
 4. Release packer and re-set at $\pm 4775'$ (packer setting is between Menefee perfs at 4802' and 4751'). Swab well and measure the gas and water rates. TOOH.
 5. Pick up 5-1/2" RBP and TIH. Set RBP at $\pm 4775'$ and set packer at $\pm 4685'$ (packer setting is between top Menefee perf at 4708' and bottom of squeezed off Cliff House at 4660'). Swab well and measure the gas and water rates.
 6. Contact Drilling Manager and Production Engineer to discuss results. If cement squeeze is warranted for the Menefee, establish injection rate below packer.
 7. After testing Menefee for water production. Release packer and retrieve RBP. Set 5-1/2" RBP at $\pm 4685'$ and set packer at $\pm 4525'$. Attempt to swab Cliff House interval (perfs 4586' – 4660'). If Cliff House is producing water, establish injection rate below packer. After testing Cliff House retrieve RBP and TOOH.
 8. After testing the Cliff House interval for water production. Release the packer and retrieve the RBP. Set 5-1/2" RBP at $\pm 4400'$ and set packer at $\pm 3975'$. Swab well to test Lewis interval. Measure gas and water rates.
 9. Contact Drilling Manager and Production Engineer to discuss results. If cement squeeze is warranted for the Lewis interval, establish injection rate below packer.

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10. After reviewing results, proceed to squeeze the intervals that are producing water with the following procedures.
11. **Menefee Squeeze:** If the Menefee interval requires a cement squeeze, the setting depths for a CIBP and a cement retainer will be determined from the results of the swab tests. Squeeze with 100 sx of Class "B" neat w/ 2% CaCl. Maximum pressure is 4100 psi.
12. **Cliff House Squeeze:** If the Cliff House Interval requires a cement squeeze, set 5-1/2" CIBP at $\pm 4685'$ (if cement retainer was not needed to squeeze Menefee) set cement retainer at $\pm 4525'$. Squeeze with 100 sx of Class "B" neat w/ 2% CaCl. Maximum pressure is 4100 psi.
13. **Lewis Squeeze:** If the Lewis Interval requires a cement squeeze, the setting depths for a CIBP and a cement retainer will be determined from the results of the swab tests. Squeeze with 100 sx of Class "B" neat w/ 2% CaCl. Maximum pressure is 4100 psi.
14. After isolating and squeezing the water production. TIH with 4-3/4" mill tag cement retainers and blow well to measure gas and water rates prior to drilling out each cement retainer.
15. After drilling out and flow testing all squeeze intervals, continue TIH with 4-3/4" mill. Drill out CIBP $\pm 5000'$ and clean out to 5384'. TOOH.
16. PU 2-3/8" expendable check; 1 jt. 2-3/8" 4.7# J-55 tubing; 2-3/8" S.N. w/ 1.78" ID; and remaining 2-3/8" 4.7# J-55 tubing.
17. TIH w/ 2-3/8" 4.7# J-55 tubing. Land tubing @ $\pm 5340'$ KB. Pump off check valve. Flow up tubing. Take final water rates and pitot gauge for gas rates.

Approve: R. De C 10/2/2000
Team Leader

Approve: Bruce D Bong 10-3-00
Drilling Superintendent

Recommend: WRA 10-2-00
Production Engineer

Regulatory: Sundry Notice Required
Yes X
No

Seppin Calk 10-7-00

Production Engineer :

Randy Buckley

Home 599-8136

Office 326-9597

Pager 326-8500