

submitted in lieu of Form 3160-5

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
BLM

99 MAY 14 AM 9:06

Sundry Notices and Reports on Wells

070 BURLINGTON, NM

1. Type of Well  
GAS

5. Lease Number  
NM-03202

6. If Indian, All. or  
Tribe Name

2. Name of Operator

**BURLINGTON  
RESOURCES**

OIL & GAS COMPANY

RECEIVED  
MAY 24 1999  
OIL CON. DIV.  
DIST. 3

Unit Agreement Name

3. Address & Phone No. of Operator

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

8. Well Name & Number  
Sunray A #5

9. API Well No.  
30-045-20894

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

850' FSL, 1460' FEL, Sec.10, T-30-N, R-10-W, NMPM

10. Field and Pool  
Blanco Pictured Cliffs

11. County and State  
San Juan County, 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 plug and abandon 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 Administrator Date 5/13/99  
trc

(This space for Federal or State Office use)

APPROVED BY [Signature] Title Acting Team Lead Date 5/19/99  
CONDITION OF APPROVAL, if any:

## PLUG AND ABANDONMENT PROCEDURE

5-6-99

Sunray A #5  
Blanco Pictured Cliffs  
DPNO 4431001  
850' FSL & 1460' FEL, Section 10, T30N, R10W  
San Juan County, New Mexico

Note: All cement volumes use 100% excess outside pipe and 50' excess inside. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures.

1. Install and test location rig anchors. Prepare blow pit. Comply with all NMOCD, BLM, and BROGC safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. NU relief line. Blow down well and kill with water as necessary. ND wellhead and NU BOP. Test BOP.
2. TOH and tally 106 joints 2-3/8" tubing with SN one joint from bottom, total 3506'. If necessary PU 1-1/4" tubing workstring. Round-trip 2-7/8" gauge ring to 3434' or as deep as possible.
3. **Plug #1 (Pictured Cliffs perforations and Fruitland top, 3434' - 3070')**: Set 2-7/8" wireline CIBP at 3434'. TIH with tubing and tag CIBP. Load casing with water and establish circulation. Pressure test casing to 500#. If casing does not test, spot or tag subsequent plug as appropriate. Mix 15 sxs Class B cement and spot a balanced plug inside casing above the CIBP to isolate the Pictured Cliffs interval and cover Fruitland top. PUH to 2390'.
4. **Plug #2 (Kirtland top, 2390' - 2290')**: Mix 5 sxs Class B cement and spot balanced plug inside casing to cover Kirtland top. TOH with tubing. Pressure test casing.
5. **Plug #3 (Ojo Alamo top, 2265' - 2165')**: Perforate 3 bi-wire squeeze holes at 2268'. Set 2-7/8" wireline cement retainer at 2215'. TIH with tubing and sting into retainer. Establish rate into squeeze holes. Mix 40 sxs Class B cement, squeeze 35 sxs cement outside 2-7/8" casing and leave 5 sxs cement inside casing to cover Ojo Alamo top. TOH with tubing.
6. **Plug #4 (Nacimiento top and Surface casing shoe at 140', 680' to Surface)**: Perforate 3 bi-wire squeeze holes at 680'. If casing tested after plug #3, then attempt to circulate to surface out bradenhead. Mix and pump approximately 242 sxs Class B cement down 2-7/8" casing, circulate good cement out bradenhead. Shut in well and WOC. If casing did not test after plug #3, then set a 2-7/8" wireline cement retainer at 630'. TIH with tubing and sting into retainer and establish rate into squeeze holes. To cover the Nacimiento top, mix 40 sxs Class B cement and squeeze 35 sxs cement outside 2-7/8" casing and leave 5 sxs cement inside casing. TOH and LD tubing. Then to cover surface casing shoe, perforate 2 bi-wire squeeze holes at 190'. Establish circulation out bradenhead valve. Mix and pump approximately 70 sxs Class B cement down 2-7/8" casing, circulate good cement out bradenhead valve. Shut in well and WOC.
7. ND BOP and cut off wellhead below surface casing. Install P&A marker to comply with regulations. RD, MOL, cut off anchors, and restore location.

Recommended: \_\_\_\_\_  
Operations Engineer

Approval: \_\_\_\_\_  
Drilling Superintendent

# Sunray A #5

Current

DPNO 4431001

Blanco Pictured Cliffs

SE, Section 10, T-30-N, R-10-W, San Juan County, NM

Long: 107 deg. 52.02' / Lat: 36 deg.  
49.28'

Today's Date: 5/6/99  
Spud: 4/30/72  
Completed: 7/3/72  
Elevation: 6844' GL

12-1/4" hole

8-5/8" 24#, J-55 Casing set @ 140'  
Cmt with 167 cf (190 sxs) Circulate to Surface

## WORKOVER HISTORY

May '73: Ran 1-1/4" IJ tubing.

Nov '98: Restimulation attempt: Kill well; tag bottom at 3540'; pull tubing; set RBP at 3436'; attempt PT to 1000#, bleed down to 0# in 30 sec; attempt to re-set RBP at 3336', casing "ratty"; attempt again at 3367', casing bad; set RBP at 3436' again, attempt PT, same leak; recover RBP; clean out with air/mist from 3540' to 3549' kept losing circulation; land tubing at 3506'.

Nacimiento @ 630'

Ojo Alamo @ 2215'

1-1/4" Tubing Set at 3506'  
(106 jts, 2.3#, IJ w/SN)

Kirtland @ 2340'

TOC @ 2300' (T.S.)

Fruitland @ 3120'

Pictured Cliffs @ 3480'

Pictured Cliffs Perforations:  
3484' - 3540' (72 holes)

6-3/4 hole

PBTD 3594'

2-7/8" 6.4#, J-55 Casing set @ 3605'  
Cemented with 220 sxs (1002 cf)

TD 3605'

# Sunray A #5

Proposed P&A

DPNO 4431001

Blanco Pictured Cliffs

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2-1/4" hole

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Cmt with 167 cf (190 sxs) Circulate to Surface

**Plug #4** 680' - Surface  
Cmt with 242 sxs Class B

Nacimiento @ 630'

**Perforate @ 680'**

**Plug #3** 2265' - 2165'  
Cmt with 40 sxs Class B,  
35 sxs outside casing  
and 5 sxs inside

Ojo Alamo @ 2215'

**Cmt Retainer @ 2218'**

**Perforate @ 2268'**

Kirtland @ 2340'

**Plug #2** 2390' - 2290'  
Cmt with 5 sxs Class B

TOC @ 2300' (T.S.)

Fruitland @ 3120'

**Plug #1** 3434' - 3070'  
Cmt with 15 sxs Class B

Pictured Cliffs @ 3480'

**Set CIBP @ 3434'**

Pictured Cliffs Perforations:  
3484' - 3540' (72 holes)

PBTD 3594'

6-3/4 hole

2-7/8" 6.4#, J-55 Casing set @ 3605'  
Cemented with 220 sxs (1002 cf)

TD 3605'