

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

990' FSL, 990' FWL, Sec.30, T-30-N, R-8-W, NMPM

5. Lease Number  
NMNM012708

6. If Indian, All. or  
Tribe Name

7. Unit Agreement Name

8. Well Name & Number  
Howell M #1

9. API Well No.  
30-045-09101

10. Field and Pool  
Blanco Mesaverde

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 repair the bradenhead on the subject well according to the attached procedure.

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

Signed [Signature] Title Regulatory Supervisor Date 8/14/02  
TLW

(This space for Federal or State Office use)

APPROVED BY [Signature] Title [Signature] Date AUG 23

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.

NMOCD

**HOWELL M #1**

Mesaverde

990' FSL & 990' FWL

Unit M, Sec. 30, T030N, R008W

Latitude / Longitude: N36° 46.662' / W107° 43.026'

San Juan County, New Mexico

AIN: 4854301

**8/6/2002 Bradenhead Repair Procedure**

**Summary/Recommendation:**

HOWELL M 1 was drilled and completed in 1953 as an open-hole Mesaverde producer; the well was sidetracked and cased in 1967. No workover operations have been performed since 1967. A bradenhead test performed 6/11/02 reported a steady flow of clear water from the bradenhead for the entire 30min test. After a 5 minute shut-in the bradenhead had 56psi. The Aztec NMOCD office has asked that remedial action be completed by September 15, 2002. It is recommended to set a CIBP over the Mesaverde formation to identify the cause of bradenhead water. Current 3-month average is 221MCFD; cumulative production is 5.9BCF.

1. Comply with all BLM and BROG regulations. Conduct daily safety meetings for all personnel on location. Notify BROG Regulatory (Peggy Cole 326-9727) and the appropriate Regulatory Agency prior to pumping any cement job. 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 as much time as possible prior to pump time in case the Agency decides to witness the cement job.
2. MOL and RU workover rig. Obtain and record all wellhead pressures. NU relief line. Blow well down and kill with 2% KCl water if necessary. NU BOP with stripping head. Test and record operation of BOP rams. Have wellhead and valves serviced as necessary. **Test secondary seal and replace/install as necessary.**
3. TOO H with 2-3/8" 4.7# J-55 EUE and inspect/replace joints as necessary; tubing string has not been tripped since 1967. If tubing is in good condition it will be used as workstring. WL set CIBP 50' above upper most perf at 4100' (Mesaverde perfs from 4150-4200' & 4646-4788'). Load hole and pressure test 4-1/2" 10.5# J-55 production longstring to 500psi for 30 min – record leak-off if any. Run CBL from 4100' to determine TOC between the 4-1/2" casing and 7" 20# J-55 intermediate casing. The HUERFANITO BENTONITE has been identified at 3177'. Call Operations Engineer/Senior Rig Supervisor to report TOC results.
4. IF TOC IS ABOVE 7" SHOE (at 4022'): proceed to step #8.
5. IF TOC IS BELOW 7" SHOE: Shoot two squeeze holes in 4-1/2" casing at 3177' OR NEAREST TO TOC. TIH with cement retainer and 2-3/8" workstring; set cement retainer 50' above squeeze holes. Sting into cement retainer; establish and record injection rate and pressures. Open and monitor intermediate casing annulus for circulation; if well permits establish circulation to surface prior to squeeze. Squeeze with C1 B cement (Include 100% excess to 100' above 7" shoe -- 7" shoe at 4022'). Sting out of cement retainer and TOO H. WOC overnight.
6. PU 3-7/8" mill and TIH to cement retainer. Drill up cement retainer and dress off cement to CIBP. P-test 4-1/2" casing 500psi for 30 min. Record leak-off if any. TOO H.
7. Run CBL from 50' below squeeze holes to TOC; identify and record TOC. If the TOC is not 100' above the 7" shoe call Operations Engineer/Senior Rig Supervisor for contingency plan.

8. ND BOP and ND C-section. NU BOP on B-section. Chemical-cut and recover 4-1/2" casing above 7" shoe and above TOC. TOOH and LD 4-1/2" casing. Load hole with 2%KCl water and pressure test 7" intermediate casing to 500# for 30 min. Record leak off and notify Operations Engineer/Senior Rig Supervisor. Run CBL from 4-1/2" liner top to TOC.
9. IF PRESSURE TEST HOLDS OK: proceed to step #11.
10. IF PRESSURE TEST FAILS: Prepare to locate holes in 7" intermediate string. If multiple holes are encountered the 4-1/2" casing may need to be tied back to the liner top; remediation will proceed through 4-1/2" casing. If isolated hole intervals are encountered and successful remediation can be accomplished the 4-1/2" casing will not be tied back. Proceed to step #11.
11. Shoot two squeeze holes in 7" casing NEAREST TO TOC. TIH with packer on 2-3/8" workstring; set packer 200' above squeeze holes (25'/bbl inside 7" casing). Establish and record injection rate and pressures. Open and monitor bradenhead for circulation; if well permits establish circulation to surface prior to squeeze. Squeeze with CI B cement (include 100% excess to surface). Displace cement with H2O 6bbls below packer and leave 2bbls cement inside casing above squeeze holes. WOC overnight.
12. TOOH with workstring and packer. PU 6-1/4" mill and TIH. Dress off cement, and clean out to 4-1/2" liner top. P-test 7" casing 500psi for 30 min. Record leak-off if any. TOOH.
13. TIH with swedge for 4-1/2" casing on 2-3/8" workstring. Dress of 4-1/2" liner top. TOOH.
14. TIH with 3-7/8" mill to CIBP at 4100'. Unload hole and establish mist rate. Drill up CIBP and clean out to PBTD at 4819'; clean out with air/mist. PU above the perforations and flow the well naturally, making short trips for clean up when necessary. TOOH and LD workstring. **NOTE: When using air/mist, minimum mist rate is 12 bph.**
15. TIH with 2-3/8" tubing string with an expendable check on bottom, seating nipple, one joint 2-3/8", 2' x 2-3/8" pup joint, then 1/2 of the 2-3/8" tubing. Run a broach on sandline to insure the tubing is clear. TIH with remaining 2-3/8" tubing and then broach this tubing. Replace bad joints as necessary.
16. Land tubing no lower than 4695'. ND BOP and NU WH. Pump off expendable check. Obtain final pitot gauge up the tubing. Connect to casing and circulate air to assure that the expendable check has pumped off. If well will not flow on its own, make swab run to seating nipple. **During cleanout operations the reservoir may be charged with air. As a result of excess oxygen levels that may be in the reservoir and/or wellbore, contact the Lease Operator to discuss the need for determining oxygen levels prior to returning the well to production.** RD and MOL. Return well to production.

Recommended: Mike Wardinsky 8/13/02  
Operations Engineer  
Mike Wardinsky

Approved: Bruce D. Boyer 8-14-02  
Drilling Manager  
Bruce Boyer

Sundry Required: YES NO

Approved: Peggy Cole 8-14-02  
Regulatory  
Peggy Cole

Operations Engineer:	Mike Wardinsky	Office: 599-4045	Cell: 320-5113
Lease Operator	Leroy Serrano		Cell: 320-1364 Pager: 324-7440
Specialist:	Les Hepner		Cell: 320-2531 Pager: 327-8619
Foreman:	Hans Dube	Office: 326-955	Cell: 320-4925 Pager: 949-2664

MHW/clc