

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: March 31, 2007

**SUNDRY NOTICES AND REPORTS ON WELLS**

*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE- Other instructions on reverse side.**

1. Type of Well  
☐ Oil Well ☒ Gas Well ☐ Other  
 2. Name of Operator **MERRION OIL & GAS CORPORATION**

3a. Address  
**610 REILLY AVENUE, FARMINGTON, NM 87401**

3b. Phone No. (include area code)  
**505-324-5300**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**2352' FSL & 673' FEL (N/2,S/2)  
 SECTION 19, T26N, R2W**

5. Lease Serial No.  
**NM-04764A**  
 6. If Indian, Allottee or Tribe Name  
 7. If Unit or CA/Agreement, Name and/or No.  
 8. Well Name and No.  
**FEATHERSTONE FEDERAL 2**  
 9. API Well No.  
**30-039-29235**  
 10. Field and Pool, or Exploratory Area  
**BLANCO MESAVERDE**  
 11. County or Parish, State  
**RIO ARRIBA, NM**

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <b>COMPLETION</b>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomple in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

**12/14/2004 MIRU Hurricane Well Service Rig #6 on 12/14/04. Spot air package and tubing trailer. Move in and spot air package, slow going because of road conditions. ND WH and NU BOP. Layed out blooie line, PU 2-3/8" tubing (tally & rabbit) and TIH. PU 194 jts and tagged at 6080' KB. Roll hole with 2% KCl. TOH with 77 stands - running out of daylight. SWL, secure location and SD until Thursday. Will log, spot acid, perf and ball off on Thursday. Frac scheduled for Friday. Note: had roustabouts smooth out pile of sandstone/dirt that was left on location.**

**12/15/04 WO FRAC**

**\*\*\* CONTINUED OTHER SIDE \*\*\***

**ACCEPTED FOR RECORD**

**FEB 11 2005**

**FARMINGTON FIELD OFFICE**

14. I hereby certify that the foregoing is true and correct  
 Name (Printed/Typed)

**STEVEN S. DUNN**

Signature

Title **DRILLING & PRODUCTION MANAGER**

Date

**12/22/2004**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

(Instructions on page 2)

**NMOC**

- 12/16/04** Late getting started due to snow/road conditions. RU Black Warrior Wireline Services (BWWC). RIH with bond log and log from 2600' to surface. Ran log under 500 psi. TOC at ~ 2140'. RU Key Pressure Pumping Services (KKPS) and pressure test casing to 3500 psi – held OK. RIH w/ 3-1/8" perf gun and perforate the Point Lookout at the following depths at 1 spf: 6045', 30', 22', 14', 10', 02', 01', 6000', 5983', 73', 72', 71', 70', 69', 68', 66', 65', 64', 63', 62', 61', 60', 59', 58', 40', 39', 38', 37', 36', 35', 34', 33' & 5932'. 33 total holes (EHD: 0.34"). RD BWWC. PU 4-1/2" packer and TIH. Stop at liner top (~ 3780'). RU air lines and unload hole with air. Continue TIH to 6046'. Spot 250 gal of 15% HCl acid with additives and displace with 20.7 bbls of water. Pull up to 5723' and set packer. Pump 500 gals of 15% HCl acid with additives and 50 each (1.3 SG) ball sealers. Displaced acid with 30 bbls of water. Saw break at 2000 psi down to 1800 psi, had good ball action up to 2200 psi but did not get a complete ball off. Over displaced by 6 bbls. SD and well went on vacuum. RD KPPS. Release packer and TIH to 6070'. TOH to 3750' (above liner top), ran out of daylight. SWI, secure location & SDON. Will finish TOH in AM. Plan on pumping 1<sup>st</sup> stage at 08:30 hrs.
- 12/17/04** Found well with 60 psi. Finish TOH with tubing. NU frac "Y" on top of BOP. RU Key Energy Pressure Pumping frac crew. Found small leak between BOP and frac "Y" while pressure testing lines. SD and try to tighten bolts but notice that bolts were pulling out of BOP. Made several calls to determine the cause and decided that BOP was not safe to use. Cancelled frac. RD and release frac crew. Blow well down and remove BOP. Change out with 5K BOP rental from Hi Tech Tools. Install 5K frac valve on top of BOP and NU Frac "Y" on top of valve. Next available frac date is 12/22/04 – next Wednesday. SWI, secure location and SD until frac.
- 12/20/04** Found well with 115 psi. Bleed well down. RU Key Pressure Pumping Services frac crew. Hold safety meeting. Pressure test pumps and lines to 5000#. Pumped 13,650 gals of slick water and 60Q foam pad. Frac well with 70,000# of 20/40 Super LC Resin Coated in 60Q foam. Pumped sand in .5, 1, 1.5, 2, 2.5, 3 and 3.5 ppg (BH concentration) stages. AIR: 40 BPM, MIR: 40 BPM, ATP: 2240#, MTP: 2780#. Activated last 17,500 lbs of sand pumped. Job complete @ 11:00 hrs 12/20/04. ISIP: 2740#. Total fluid pumped: 558 bbls. Total nitrogen pumped: 782,311 scf. RU Black Warrior Wireline. RIH with CIBP with dissolving bio ball, set BP at 5690'. RIH with 3-1/8" casing gun and perforate Cliffhouse formation 1 SPF at the following depths: 5572'-5577', 5580'-5585' and 5593'-5604' (Total of 24 holes - EHD: 0.34"). RU KPPS, hold safety meeting and pressure test pumps and lines to 5000#. Spearhead 1200 gals of 15% HCl acid. Continued straight into frac. Pumped 13,650 gals of slick water, 60Q foam pad. (Note: Had to lower pump rates until acid hit perfs). Frac well with 60,000# of 20/40 Super LC Resin Coated in 60Q foam. Pumped sand in .5, 1, 1.5, 2, 2.5, 3 and 3.5 ppg (BH concentration) stages. AIR: 40 BPM, MIR: 40 BPM, ATP: 3300#, MTP: 4000#. Activated last 15,000 lbs of sand pumped. Job complete @ 15:38 hrs 12/20/04. ISIP: 2740#. Total fluid pumped: 453 bbls. Total nitrogen pumped: 634,674 scf. (Note: Had trouble keeping hydrostatic head on blender tub on last sand stage (kept losing fluid rate), cut screws and displaced early). Well pressured up during displacement, only pumped 1/2 of calculated/plan displacement due to max pressure. RD KPPS and BWWC. Opened well thru 1/4" choke at 7:30 hrs 12/20/04. Turn over to flow back crew. (JT).
- 12/21/04** At 01:00 hrs pressure was down to 150 psi. Making mostly nitrogen/foam – very little sand. At 06:00 pressure increased to 200 psi, then steadily dropped down to 25 psi. Still flowing mostly nitrogen and very little sand. At 08:00 hrs removed 1/4" choke and opened well thru 2", blew down after several minutes. Remove frac "Y" and frac valve. NU stripping head, string out and RU blooie line. TIH w/ 3-7/8" bit, bit sub, string float and 2-3/8" tubing. Tag up on sand at ~3300'. RU air package and lines. Unload hole and start cleaning out. Clean out down to 3720'. Running out of daylight. Blow hole clean. Pull up to 3600'. SWI, secure location & SDON.