

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT--" for such proposals

SUBMIT IN TRIPLICATE

**RECEIVED**  
AUG 10 19981. Type of Well  
Oil ☒ Well Gas ☐ Well Other ☐

2. Name of Operator

Merrion Oil &amp; Gas Corporation (14634)

3. Address and Telephone No.

610 Reilly Avenue, Farmington, NM 87401-2634

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2310' fsl & 990' fwl (nw sw)  
Section 15, T19N, R5W

5. Lease Designation and Serial No.

NOOC-14-20-5377

6. If Indian, Allottee or Tribe Name

Navajo Allotted

7. If Unit or CA, Agreement Designation

Papers Wash Unit

8. Well Name and No.

PWU H No. 4

9. API Well No.

30-031-20503

10. Field and Pool, or Exploratory Area

Papers Wash Entrada

11. County or Parish, State

McKinley County,  
New Mexico

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

## TYPE OF SUBMISSION

☒ Notice of Intent☐ Subsequent Report☐ Final Abandonment Notice

## 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☐ Dispose Water(Note: Report results of multiple completion on  
Completion or Recompletion Report and Log form.)

13. Describe Proposed or completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Merrion Oil &amp; Gas proposes to plug and abandon the subject well according to the attached procedure.

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

Signed Connie S. Dinning Title Contract Engineer Date 7/31/98

(This space for Federal or State office use)

Approved By R. Duane W. Stenice Title \_\_\_\_\_ Date AUG - 7 1998  
Conditions of approval, if any:

## PLUG & ABANDONMENT PROCEDURE

7-27-98

Papers Wash Unit #4

Entrada

2310' FSL & 990' FWL / SW, Section 15, T-19-N, R-5-W  
McKinley Co., New Mexico

Note: All cement volumes use 100% excess outside pipe and 50' excess inside pipe. 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 to all NMOCD, BLM, and Merriam 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. POH and LD rods and pump. POH and LD 82 joints 3-1/2" tubing (2500') and submersible pump. Tally and PU 2" workstring. Round-trip 4-1/2" wireline gauge ring to 5350'.
3. **Plug #1 (Entrada Open Hole, 5350' - 5250')**: Set 4-1/2" wireline CIBP at 5350'. RIH with open ended tubing and tag CIBP. Pressure test casing to 1000#. If casing does not test then spot or tag subsequent plugs as appropriate. Spot 10 sxs Class B cement above CIBP in 4-1/2" casing to isolate Entrada zone. POH to 4615'.
4. **Plug #2 (4-1/2" casing liner top, 4615' - 4515')**: Spot 25 sxs Class B cement from 4615' to 4515' to cover 4-1/2" liner top. POH to 4245'.
5. **Plug #3 (Dakota top, 4245' - 4145')**: Mix 28 sxs Class B cement and spot balanced plug inside casing to cover Dakota top. POH to 3014'.
6. **Plug #4 (Gallup top, 3014' - 2914')**: Mix 28 sxs Class B cement and spot balanced plug inside casing to cover Gallup top. POH to 2067'.
7. **Plug #5 (Point Lookout top, 2087' - 1987')**: Mix 28 sxs Class B cement and spot balanced plug inside casing to cover Point Lookout top. POH to 591'.
8. **Plug #6 (LaVentana top, 591' - 491')**: Mix 28 sxs Class B cement and spot balanced plug inside casing to cover LaVentana top. POH to 259'.
9. **Plug #7 (9-5/8" Casing Shoe at 209')**: Mix 28 sxs Class B cement and spot balanced plug inside casing to cover surface casing shoe from 259' to 159'. (TOC at 112', CBL '96). POH and LD tubing. Perforate 2 squeeze holes at 50'. Establish circulation out bradenhead valve. Pump approximately 17 sxs Class B cement down 7" casing and circulate good cement to surface out bradenhead valve. Shut in well and WOC.
10. BOP and cut off wellhead below surface casing. Install P&A marker to comply with regulations. RD, MOL, cut off anchors, and restore location.

# Merrion Oil & Gas Corporation Wellbore Schematic

PWU H No. 4

Horizontal Wellbore Configuration

Location: THL: 2310' fsl & 990' fwl (nw sw)  
BHL: 1348' fsl & 501' fwl (nw sw)  
Sec 15, T19N, R05W  
McKinley Co, New Mexico

Date: September 10, 1996

Elevation: 6630' GL  
6642' RKB

Prepared by: Steven S. Dunn

Cretaceous

Jurassic

Lewis shale - at surface

Top of Cmt @ Surface

Bit Size - 12-1/4"

9 5/8" Surface Csg @ 209' KB w/ 150sx; 177 cuft

La Ventana - 541'

Bit Size 8 3/4"

Menefee - 1151'

Pt. Lookout - 2037'

Mancos - 2137'

2nd Stage w/ 465 sx; TOC at Surface (Calculated)).  
DV Tool @ 2679' KB  
TOC @ DV tool (Calculated)

Gallup - 2964'

Lynes External Casing Packer @ 2763' KB

Greenhorn - 3960'

Dakota - 4195'

Morrison - 4314'

Liner top @ 4665'KB

6-1/4" hole size

4-1/2" Liner set @ 5406' MD w/ 125 sx

Open hole 5405MD (5200TVD) - 6110' MD (5235' TVD)

Summerville - 5141'

Todilto - 5192'

Entrada - 5200'

CICR @ 5163' w/ 50' sx 'B' (5/1/96)

3-7/8" hole size

Entrada Perforations ... plugged off  
5200' - 5207' w/ 2jspi

7" 23# J55 Production Csg @ 5406' w/ 550sx

OPBTD @ 5361'KB

TD @ 5416'KB

## WELL DATA:

CUM GAS:  
CUM OIL:  
SPUD: Mar 26, 1977  
COMPLETED Apr 7, 1977

CAPACITIES:  
7" 23# - 0.0394 bbl/ft  
2 7/8" 6.5# - 0.00496 bbl/ft  
7" X 2 3/8" - 0.0363 bbl/ft

CURRENT SICP:  
CURRENT SITP:  
LINE PRESSURE:  
OIL TRANSPORTER: Giant