Distribution: O+4 (BLM); 1-Accounting; 1- Land; 1-File **UNITED STATES** Form 3160-5 FORM APPROVED (June 1990) DEPARTMENT OF THE INTERIOR Budget Bureau No. 1004-0135 **BUREAU OF LAND MANAGEMENT** Expires: March 31, 1993 Lease Designation and Serial No. SUNDRY NOTICES AND REPORTS ON WELLS SF-079086 Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. If Indian, Allottee or Tribe Name Use "APPLICATION FOR PERMIT--" for such proposals 7. If Unit or CA, Agreement Designation SUBMIT IN TRIPLICATE Type of Well Gas X Well We!l 8. Well Name and No. Canada Mesa No. 2 Merrion Oil & Gas Corporation (14634)API Well No. . Address and Telephone No. 30-039-20571 610 Reilly Avenue, Farmington, NM 87401-2634 (505) 327-9801 10. Field and Pool, or Exploratory Area Location of Well (Footage, Sec., T., R., M., or Survey Description) **Basin Dakota** 1850' fsl & 790' fel (ne se) 11. County or Parish, State Section 24, T24N, R6W Rio Arriba County, **New Mexico** CHECK APPROPRIATE BOX (s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 12. TYPE OF ACTION TYPE OF SUBMISSION Notice of Intent Abandonment Change of Plans Recompletion New Construction Non-Routine Fracturing Subsequent Report Plugging Back Water Shut-Off Casing Repair Final Abandonment Notice Altering Casing Conversion to Injection Other Dispose Water (Note: Report results of multiple completion on Completion or Recompletion Report and Log form.) 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 & Gas proposes to plug and abandon the subject well according to the attached procedure. ့ ှ I hereby certify that the foregoing is true and correct 5/4/00 Title Engineer Signed Connie S. Dinning-(This space for Federal or State office use) Title Approved By Conditions 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

NMOCD

or representations as to any matter within its jurisdiction

Merrion Oil & Gas Corporation

Plug & Abandon Procedure

May 2, 2000

Well: Location: Canada Mesa No. 2

1850' fsl & 790' fel (ne se)

Field: Elevation: Basin Dakota

6497' GR 6510' KB

Sec. 24, T24N, R6W, NMPM Rio Arriba County, New Mexico

By:

Connie Dinning

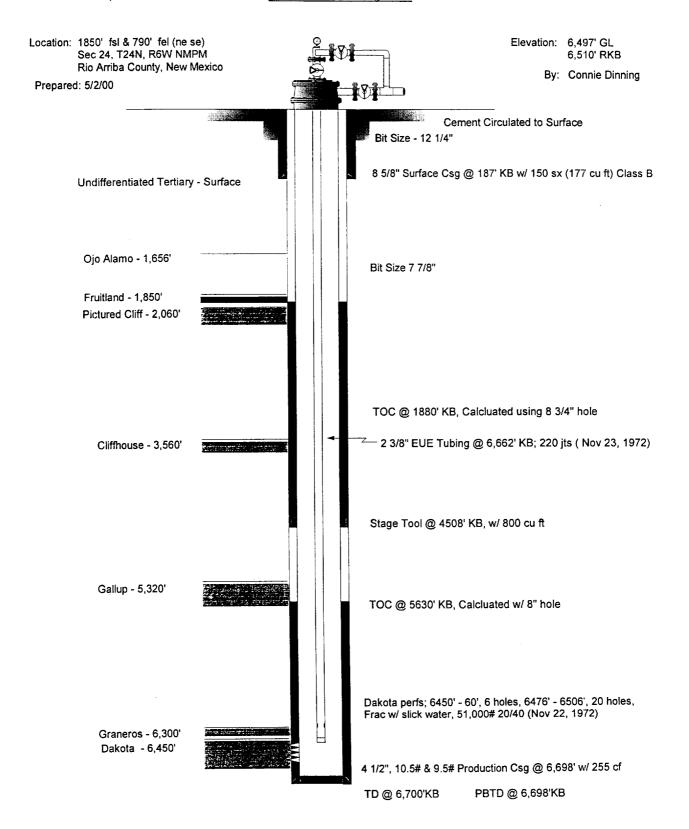
Note: All cement volumes use 100% excess outside pipe and 50' excess inside pipe. The stabilizing wellbore fluid will be 8.33 ppg, sufficient to balance all exposed formation pressures.

- 1. Comply with all NMOCD, BLM and Merrion safety regulations.
- 2. Load casing w/ water. Tally out of hole w/ tubing and TIH w/ CICR on tubing to ±6400' KB.
- 3. Plug #1 (Dakota perforations and top, 6400' 6500', 50' excess): Mix 12 sx (14 cu. ft) Class B cement and pump into Dakota perfs if possible, w/ 50' over Dakota top. POH.
- 4. RIH w/ wireline and perforate two shots @ ±5420'.
- 5. RIH w/ wireline set CICR, set @ ±5270'.
- 6. Plug #2 (Gallup top, inside and outside casing, 5270' 5420'): Mix 50 sx (59 cu. ft) Class B cement. Sting into retainer and pump a balanced plug inside and outside pipe to cover Gallup top. POH to ±3510'.
- 7. Plug #3 (Mesaverde top, 3510' 3610'): Mix 12 sx (14 cu. ft) Class B cement and pump an inside plug to cover Mesaverde top. POH to ±2010'.
- 8. Plug #4 (Pictured Cliffs top 2010' 2110'): Mix 12 sx (14 cu. ft.) Class B cement and pump an inside plug to cover Pictured Cliffs top. POH.
- 9. RIH w/ wireline and perforate two shots @ ±1900'.
- 10. RIH w/ CICR on wireline, set @ ±1606'.
- 11. Plug #5 (Fruitland & Ojo Alamo tops, inside and outside casing, 1606' 1900'): Mix 140 sx (165 cu. ft) Class B cement. Sting into retainer and pump a balanced inside plug inside and outside casing to cover Fruitland & Ojo Alamo tops. POH.
- 12. Plug #6 (Surface 187'): Perforate 2 holes @ ±187'. Establish circulation out bradenhead valve. Mix 75 sx (89 cu. ft) Class B cement and pump down 4 1/2" casing, circulate good cement out bradenhead valve. Shut in well and WOC.
- 13. ND BOP and cut off casing below surface. Install P&A marker with cement to comply with regulations. RDMOL, cut off anchors and restore location.
 - 14. Restore location per BLM stipulations.

Merrion Oil & Gas Corporation Wellbore Schematic

Canada Mesa No. 2

Current Wellbore Configuration



Merrion Oil & Gas Corporation Wellbore Schematic

Canada Mesa No. 2

Proposed Plugged Wellbore Configuration

Location: 1850' fsl & 790' fel (ne se)

Fruitland - 1,850'

Pictured Cliff - 2,060'

Cliffhouse - 3,560

Gallup - 5,320'

Graneros - 6,300'

Dakota - 6,450'

Sec 24, T24N, R6W NMPM

Rio Arriba County, New Mexico

Undifferentiated Tertiary - Surface

Elevation: 6,497' GL

6,510' RKB

By: Connie Dinning

Dry Hole Marker Prepared: 5/2/00

Cement Circulated to Surface

Bit Size - 12 1/4"

Plug No. 6: Surface Csg Shoe (Surface - 187'), 75 sx (89 cu ft), shots @ +/-187'

8 5/8" Surface Csg @ 187' KB w/ 150 sx (177 cu ft) Class B

Plug No. 5: Fruitland/Ojo Alamo Tops (1606' - 1900'), Ojo Alamo - 1,656' 140 sx (165 cu ft), 2 shots @ +/-1900', CICR @ +/-1606'

TOC @ 1880' KB, Calcluated using 8 3/4" hole

Plug No. 4: Pictued Cliffs Top (2010' - 2110'), 12 sx (14 cu ft)

Bit Size 7 7/8"

Plug No. 3: Mesaverde Top (3510' - 3610'), 12 sx (14 cu ft)

Stage Tool @ 4508' KB, w/ 800 cu ft

Plug No. 2: Gallup Top (5270' - 5420'), 50 sx (59 cu ft), 2 shots @ +/-5420', CICR @ +/- 5270'

TOC @ 5630' KB, Calcluated w/ 8" hole

Dakota perfs; 6450' - 60', 6 holes, 6476' - 6506', 20 holes, Frac w/ slick water, 51,000# 20/40 (Nov 22, 1972)

> Plug No. 1: Dakota Perfs & Top (6400' - 6506'), 12 sx (14 cu ft) CICR @ 6400'

4 1/2", 10.5# & 9.5# Production Csg @ 6,698' w/ 255 cf

PBTD @ 6,698'KB TD @ 6,700'KB