

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993  
5. Lease Designation and Serial No.  
**NM-5980**

**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**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation  
Communitization in progress

8. Well Name and No.  
Federal 21 No. 4

9. API Well No.  
30-031-20934

10. Field and Pool, or Exploratory Area  
Ojo Encino Entrada

11. County or Parish, State  
McKinley, New Mexico

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Merrion Oil & Gas Corporation

3. Address and Telephone No.

610 Reilly Ave. Farmington NM 87401  
ph: (505) 327-9801

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

330' fsl & 2310' fwl (se sw)  
Section 21, T20N, R5W, NMPM

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 Horizontal Redrill

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on Well 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 requests your approval to plug back the vertical Entrada in this well by setting a cement retainer in the 7" casing at 5850' KB± and squeezing the Entrada perforated interval, 5909'-15', with 50sx (59cf) Class B cement.

Will mill up to 80 feet of 7" casing section at a kick-off point in the Morrison formation (depth not yet chosen). Will spot a kick-off cement plug across the milled section, dress off and mobilize directional drilling equipment.

Will run in hole with mud motor and 6-1/8" bit. Will orient and kick off of cement plug in a southerly direction (subject to change during drilling). Will build angle and intersect the Entrada top at or near horizontal. Will continue to build angle to ~ 90°. Plan to run 4-1/2" liner through build section and cement in place with adequate cement to circulate to liner top inside of 7" casing. Will set linetop minimum of 50 feet into 7" casing. Will drill ahead with 3-7/8" bit. (If liner not used will continue with 6-1/8" bit) Will drill a horizontal lateral up to 1200 feet from surface location in a general southerly direction. Following drilling, no open hole logs are planned. The drilling mud will be displaced with water or other suitable completion fluid and the Entrada formation will be tested for sizing of a submersible pump.

Blow out preventers for 2M service will be used during all phases of work through completion.

The drilling mud will be a low solids non-dispersed mud using polymer, gel and anti corrosion additives.

The reserve pit will be 70'X100'X6' in size and will line with 12mil liner.

Merrion has applied to the NMOCD for project approval and will not conduct any new drilling pending approval by the OCD. However, we do request that the BLM give contingent approval to conduct the wellbore preparation phase of this project immediately, stipulating that OCD final approval must be received prior to drilling the horizontal well.

COPIES: BLM+4, LAND+1, ACTG+1, WELL FILE+1

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

Signed

Steven S. Dunn

Title Operations Manager

Date March 18, 1996

(This space for Federal or State office use)

Approved by

Title

**APPROVED**

Conditions of approval, if any:

MAR 22 1996

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.

**DISTRICT MANAGER**

NMOCD

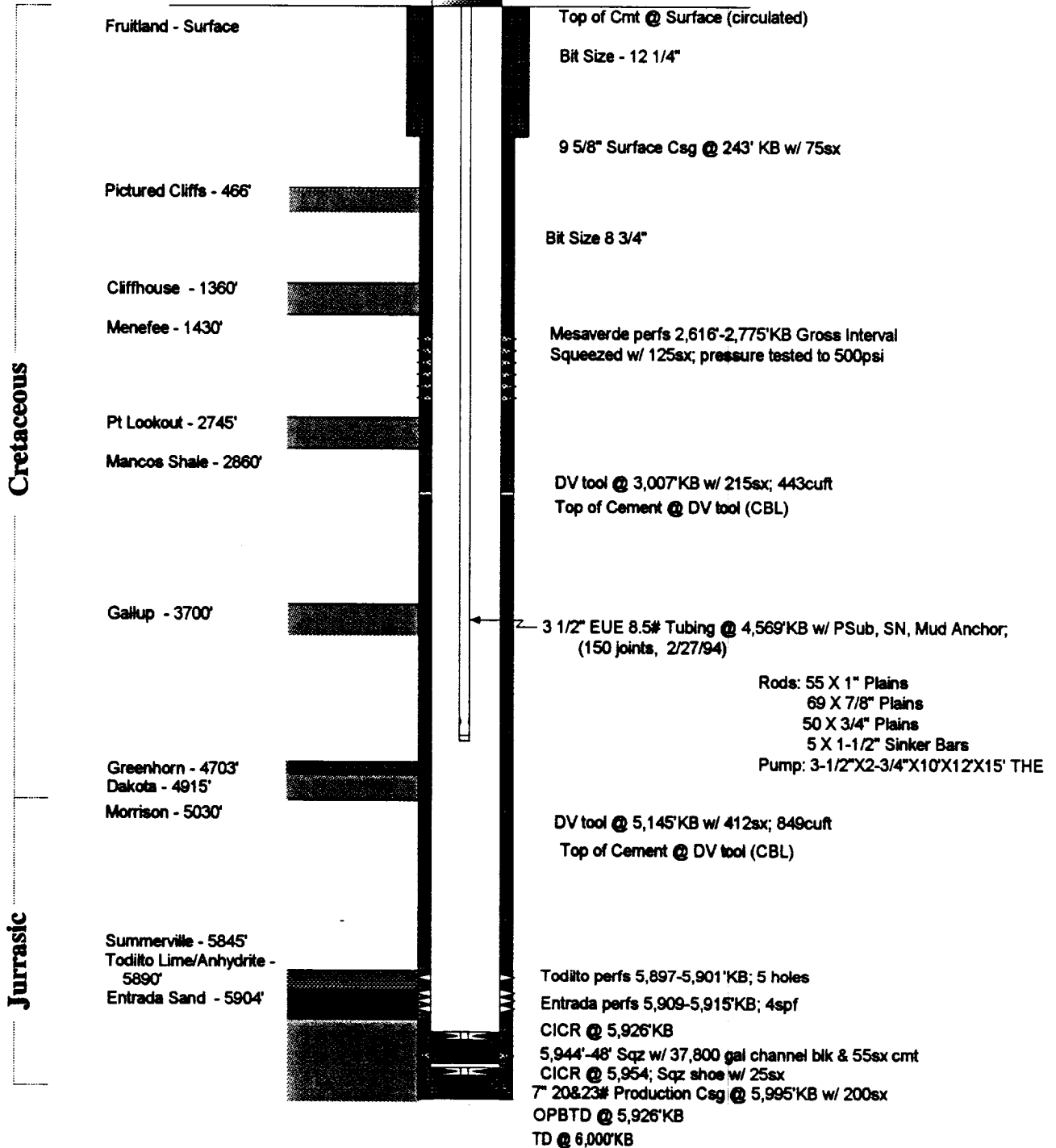
# Merrion Oil & Gas Corporation Wellbore Schematic

## Federal 21 No. 4

Present Wellbore Configuration

Location: 330' fsl & 2310' fwl (se sw)  
Sec 21, T20N, R5W  
McKinley Co, New Mexico  
Prepared: March 18, 1996

Elevation: 6,785' GL  
6,797' KB  
By: Steve Dunn



**Merrion Oil & Gas Corporation**  
**Well Control Equipment Schematic for 2M Service**

Attachment to Sundry Notice of Intent

***Federal 21 No. 4 Horizontal Entrada Well***

Location: 330'fsl & 2310'fwi (se sw)  
Sec 21, T20N, R5W, NMPM  
McKinley County, New Mexico

Date: March 18, 1996  
By: Steven S. Dunn

