

Distribution: O+4 (BLM); 1-Accounting; 1- Land; 1-File

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM 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

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Merrion Oil & Gas Corporation (14634)

3. Address and Telephone No.

610 Reilly Avenue, Farmington, NM 87401-2634 (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

5. Lease Designation and Serial No.

NM-5980

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

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 County,
New Mexico

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

TYPE OF SUBMISSION

TYPE OF ACTION

☒ Notice of Intent

☒ Abandonment

☐ Change of Plans

☐ Subsequent Report

☐ Recompletion

☐ New Construction

☐ Final Abandonment Notice

☐ Plugging Back

☐ Non-Routine Fracturing

☐ Casing Repair

☐ Water Shut-Off

☐ Altering Casing

☐ Conversion to Injection

☐ Other

☐ 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 and Gas proposes to plug and abandon the subject wellbore as per the attached detailed procedure.

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

Signed

Title Contract Engineer

Date 11/8/99

Connie S. Dinning

(This space for Federal or State office use)

Approved By

Title

Date

11/30/99

Conditions of approval, if any:

PLUG & ABANDONMENT PROCEDURE

11-5-99

Federal H 21 #4
Ojo Encino Entrada
330' FSL and 2310' FWL, Section 21, T-20-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 with all NMOCD, BLM, and Burlington safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. NU relief line and blow down well; kill with water as necessary. ND wellhead and NU BOP. Test BOP.
2. POH and LD 150 joints 3-1/2" tubing (4520'). Tally and prepare a 2-3/8" tubing workstring.
3. **Plug #1 (Todilto/Entrada interval, 5858' – 5808')**: TIH with open-ended tubing and tag RBP at 5858' or as deep as possible. Load well with water and pressure test casing to 500#. If casing does not test, then spot or tag subsequent plugs as appropriate. Mix 19 sxs Class B cement and spot a balanced plug inside casing above the RBP to isolate Todilto / Entrada interval. PUH to 4976'.
4. **Plug #2 (Dakota top, 4976' – 4876')**: Mix 29 sxs Class B cement and spot balanced plug inside casing to cover Dakota top. PUH to 3748'.
5. **Plug #3 (Gallup top, 3748' – 3648')**: Mix 29 sxs Class B cement and spot a balanced plug inside casing to cover Gallup top. PUH to 2795'.
6. **Plug #4 (Mesaverde top, 1410' – 1310')**: Mix 29 sxs Class B cement and spot a balanced plug inside casing to cover Mesaverde top. POH and LD tubing.
7. **Plug #5 (Pictured Cliffs top and 9-5/8" casing shoe, 518' - Surface)**: Perforate 3 HSC squeeze holes at 518'. Establish circulation out bradenhead. Mix and pump 210 sxs Class B cement down 7" casing and circulate good cement out bradenhead. Shut in well and WOC.
8. BOP and cut off wellhead below surface casing. Install P&A marker to comply with regulations. RD, MOL, cut off anchors, and restore location.

Federal H 21 #4

Current

Ojo Encino Entrada

SW, Section 21, T-20-N, R-5-W, McKinley County, NM

Today's Date: 11/5/99
Spud: 4/8/88
Comp: 11/20/90
Elevation: 6785' (GL)

12-1/4" hole

Pictured Cliffs @ 468'

TOC @ 796' (Calc, 75%)

Mesaverde @ 1360'

Pt Lookout @ 2745'

Gallup @ 3698'

Dakota @ 4926'

Todilto @ 5886'

Entrada @ 5905'

8-3/4" hole

TD 6000'

9-5/8" 36# Casing set @ 243'
Cmt with 75 sxs (Circulated to Surface)

Workover / Well History

Oct '88: Pull rods and tubing; perforate Pt Lookout 2758' to 2616'; set CR at 2755' and squeeze 2758' to 2775' with 50 sxs; then perf 2750' to 2752'; swab test and land tubing.

Jan '89: Pull tubing; frac Mesaverde perms from 2616' to 2717'; land tubing.

Sep '90: Pull tubing; squeeze Mesaverde/Pt Lookout perms from 2616' to 2752' with 75 sxs, then re-squeeze with 75 sxs more; drill out to 5926'.

Apr '96: Pull parted rods and tubing; set CR at 5858' and squeeze Todilto/Entrada perforations with 50 sxs Class B; PT casing, held OK; land tubing at 4520' and wait to horizontally drill well.

Mesaverde Perforations:
2616' - 2775'
Sqzd below 2755 with 50 sxs (1986)
Sqzd all perms with 150 sxs (1990)

DV Tool @ 3007'
Cmt w/ 215 sxs (443 cf)
TOC @ DV Tool, (CBL)

3-1/2" Tubing set at 4520'
(150 joints)

DV Tool @ 5145'
Cmt w/ 412 sxs (849 cf)
TOC @ DV Tool, (CBL)

CR at 5858' sqzd w/50 sxs (1996)

Todilto Perforations:
5897' - 5901'

Entrada Perforations:
5909' - 5915'

CR at 5926' sqzd w/55 sxs (1988)

CR at 5972' sqzd w/ 25 sxs (1988)

7" 20&23#, J-55 Casing set @ 5995'
Cmt with 200 sxs

Federal H 21 #4

Proposed P&A

Ojo Encino Entrada

SW, Section 21, T-20-N, R-5-W, McKinley County, NM

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