

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 SWD

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)

**930' fsl & 520' fwl (sw 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

Well Name and No.
Federal 21 No. 3

9. API Well No.
30-031-20524

10. Field and Pool, or Exploratory Area
SWD, Gallup

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.

RECEIVED
99 NOV -9 PM 1:02
070 FARMINGTON, NM

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

Signed Connie S. Dinning Title Contract Engineer Date 11/8/99

(This space for Federal or State-office use)

Approved By Connie S. Dinning Title Contract Engineer Date 11/30/99
Conditions of approval, if any:

PLUG & ABANDONMENT PROCEDURE

11-3-99

Federal 21 #3

Ojo Encino SWD Well
930' FSL and 520' 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 Merrion 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. PU on tubing and release Baker Model N packer. TOH 117 or 115 joints 2-7/8" plastic lined tubing; LD packer. Visually inspect tubing, if necessary LD and PU workstring.
3. **Plug #1 (Gallup perforations and top, 3590' – 3476'):**

Plan A: Set 5-1/2" wireline CIBP at 3590'. TIH with open ended tubing and tag CIBP. Load casing with water and circulate clean. Pressure test casing to 500#. If casing does not test, then spot or tag subsequent plug as appropriate. Mix 19 sxs Class B cement and spot a balanced plug above CIBP to isolate Gallup perforations. PUH.

Plan B: If the tubing has a strong water flow or the packer will not release, then pump 20 bbls water down the tubing, monitor the casing for communication. If there is not a tubing leak, then mix 90 sxs Class B Cement and pump down the 2-7/8" tubing to fill the Gallup perforations, (wash up pump and lines) and then displace down to 3400' in the tubing. Shut in and WOC. RU wireline truck. RIH with 2-7/8" gauge ring and tag cement. Jet cut or back off the tubing at 3350' or above the cement. TOH and inspect the tubing. TIH and spot a cement plug to cover the tubing stub.

4. **Plug #2 (Mesaverde top, 2762' – 2662'):** PUH to 2762'. Mix 17 sxs Class B cement and spot a balanced plug inside casing to cover Mesaverde top. PUH to 1252'.
5. **Plug #3 (La Ventana top, 1252' – 1152'):** Mix 17 sxs Class B cement and spot a balanced plug inside casing to cover La Ventana interval. PUH to 254'.
6. **Plug #4 (9-5/8" Casing Shoe, 254' - Surface):** Pressure test the bradenhead to 300#. If BH holds pressure, then mix approximately 30 sxs Class B cement and pump down the tubing to spot a balanced plug inside casing to cover casing shoe, circulate good cement out the casing valve. TOH and LD tubing. If BH does not hold pressure, then perforate 2 squeeze holes at 254' and attempt to circulate out the bradenhead valve. Cement to surface.
7. 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 21 #3

Current

Ojo Encino SWD Well

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

Longitude / Latitude:

Today's Date: 11/3/99

Spud: 10/16/77

Comp: 12/23/77

Elevation: 6785' GL
6797' KB

13-3/4" Hole

LaVentana @ 1202'

Mesaverde @ 2712'

Gallup @ 3526'

Dakota @ 4912'

Entrada @ 5972'

8-3/4" Hole

PBTD 4382'

TD 6168'

Circulated cement to Surface

9-5/8" 36#, K-55 Casing set @ 204'
200 sxs cement (Circulated to Surface)

WELL HISTORY

Sep '90: Mechanical Integrity Test, passed.

Oct '95: Mechanical Integrity Test, passed.

2-7/8" Tubing set at 3561'
(115 or 117 jts, plastic lined)

DV tool @ 3180'
Cmt w/ 570 sxs (941 cf)

Top of Cmt at DV Tool

Baker Model "N" Packer @ 3561'
with "DV bottom, Model D Anchor Roto seal
assembly" and Model F nipple on bottom of packer.

Gallup Perforations:
3640' - 3750'
3850' - 3970'

5-1/2" 15.5#, K-55 Casing Set @ 4421'
Cemented with 500 sxs (590 cf)
Circulated cement to surface after
opening DV tool.

Oct '77: Cement 4990' - 4840'
with 55 sxs to cover Dakota top.

Oct '77: Cement 6050' - 6590'
with 55 sxs to cover Entrada top.

Federal 21 #3

Proposed P&A

Ojo Encino SWD Well

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

Longitude / Latitude:

Today's Date: 11/3/99
Spud: 10/16/77
Comp: 12/23/77
Elevation: 6785' GL
6797' KB

13-3/4" Hole

LaVentana @ 1202'

Mesaverde @ 2712'

Gallup @ 3526'

Dakota @ 4912'

Entrada @ 5972'

8-3/4" Hole

PBTD 4382'

TD 6168'

Circulated cement to Surface

9-5/8" 36#, K-55 Casing set @ 204'
200 sxs cement (Circulated to Surface)

Plug #4 254' - Surface
Cmt with 30 sxs Class B

Plug #3 1252' - 1152'
Cmt with 17 sxs Class B

Plug #2 2762' - 2662'
Cmt with 17 sxs Class B

DV tool @ 3180'
Cmt w/ 570 sxs (941 cf)

Top of Cmt at DV Tool

Plug #1 3590' - 3476'
Cmt with 19 sxs Class B

Set CIBP @ 3590'

Gallup Perforations:
3640' - 3750'
3850' - 3970'

5-1/2" 15.5 #, K-55 Casing Set @ 4421'
Cemented with 500 sxs (590 cf)
Circulated cement to surface after
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