

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985
5. LEASE DESIGNATION AND SERIAL NO.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use APPLICATION FOR PERMIT for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Merrion Oil & Gas Corporation	8. FARM OR LEASE NAME Federal 21
3. ADDRESS OF OPERATOR P. O. Box 840, Farmington, New Mexico 87499	9. WELL NO. 4
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below) At surface 220' FSL and 2310' FWL	10. FIELD AND POOL OR WILDCAT Ojo Encino <i>Entrada</i>
14. PERMIT NO.	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 21-T20N, R5W
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6785' GR	12. COUNTY OR PARISH McKinley
	13. STATE New Mexico

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	PULL OR ALTER CASING
FRACTURE TREAT	MULTIPLE COMPLETE
SHOOT OR ACIDIZE	ABANDON*
REPAIR WELL	CHANGE PLANT
(Other)	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREATMENT	ALTERING CASING
SHOOTING OR ACIDIZING	ABANDONMENT*
(Other) <u>Test history</u>	X

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. 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.)*

Updated test history and treatment report attached.

RECEIVED
OIL MAIL ROOM
69 FEB -2 PM 1:00
FARMINGTON RESOURCE AREA
FARMINGTON, NEW MEXICO

RECEIVED
FEB 23 1989
OIL CON. DIV.
DIST. 3

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

SIGNED Steven S. Dunn

TITLE Operations Manager

DATE 2/1/89

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

ACCEPTED FOR RECORD
FEB 17 1989
FARMINGTON RESOURCE AREA

*See Instructions on Reverse Side

FEDERAL NO. 21-4

November 28, 1988

Down 24 hours - flow line frozen. (DM)

November 29, 1988

Produced 0 Bbls oil, 0 Bbls H₂O and 116 MCF vented in 24 hours, 10 SPM x 120". TP/CP - 30/30. (DM)

November 30, 1988

Produced 0 Bbls oil, 0 Bbls H₂O and 116 MCF vented in 24 hours. Pump down 24 hours. (DM)

December 1, 1988

Produced 0 Bbls oil, 0 Bbls H₂O and 0 MCF vented in 24 hours flowing. Unit down for engine magneto. Casing shut-in, tubing open. TP/CP - 0/800. (DM)

December 2, 1988

Produced 0 Bbls oil, 10 Bbls H₂O and 116 MCF vented in 24 hours pumping, 10 SPM x 120". TP/CP - 30/30 (DM)

December 3, 1988

Produced 0 Bbls oil, 2 Bbls H₂O and 116 MCF vented in 24 hours pumping, 10 SPM x 120". TP/CP - 30/30 (DM)

December 4, 1988

Produced 0 Bbls oil, 3 Bbls H₂O and 116 MCF vented in 24 hours pumping, 10 SPM x 120". TP/CP - 30/30 (DM)

December 5, 1988

Produced 0 Bbls oil, 8 Bbls H₂O and 116 MCF vented in 24 hours pumping, 10 SPM x 120". TP/CP - 30/30 (DM)

December 6, 1988

Produced 0 Bbls oil, 3 Bbls H₂O and 0 MCF vented in 12 hours pumping, 10 SPM x 120". Line frozen. TP/CP - 420/420 (DM)

December 7, 1988

Produced 6 Bbls oil, 3 Bbls H₂O and 116 MCF vented in 24 hours pumping, 10 SPM x 120". TP/CP - 30/30 (DM)
Separator malfunction caused oil production, well did not produce oil.

Gas Analysis - Mesa Verde Formation

Sample Date: 12/1/88

BTU: 1273.900

GPM: 2.834

S.G.: 0.7264

December 8, 1988

Produced 0 Bbls oil, 3 Bbls H₂O and 116 MCF vented in 24 hours pumping, 10 SPM x 120". TP/CP - 30/30 (DM)

FEDERAL NO. 21-4 - cont.

December 9, 1988

Produced 0 Bbls oil, 3 Bbls H₂O and 116 MCF vented in 24 hours pumping, 10 SPM x 120". TP/CP - 30/30 (DM)

December 10, 1988

Produced 0 Bbls oil, 0 Bbls H₂O and 58 MCF vented in 12 hours pumping, 10 SPM x 120". Line frozen. (DM)

December 11, 1988

Produced 0 Bbls oil, 2 Bbls H₂O and 58 MCF vented in 12 hours pumping, 10 SPM x 120". Line frozen - Started unit. (DM)

December 12, 1988

Produced 3 Bbls oil, 0 Bbls H₂O and 116 MCF vented in 24 hours pumping, 10 SPM x 120". TP/CP - 30/30 (DM)

December 13, 1988

Produced 0 Bbls oil, 0 Bbls H₂O and 116 MCF vented in 24 hours pumping, 10 SPM x 120". TP/CP - 30/30 (DM)

December 14, 1988

Produced 0 Bbls oil, 0 Bbls H₂O and 116 MCF vented in 24 hours pumping, 10 SPM x 120". TP/CP - 30/30 (DM)

December 15, 1988

Produced 0 Bbls oil, 3 Bbls H₂O and 116 MCF vented in 24 hours pumping, 10 SPM x 120". TP/CP - 30/30 (DM)

December 16, 1988

Produced 0 Bbls oil, estimated 2 Bbls H₂O and 58 MCF vented in 12 hours pumping, 10 SPM x 120". Shut down with separator problems. (DM)

December 17-21, 1988

Unit down - separator problems. (DM)

December 23, 1988

Unit down 24 hours - pump jack engine problem. (DM)

December 24-27, 1988

Produced 0 Bbls oil, 0 Bbls H₂O and 116 MCF vented in 24 hours pumping, 10 SPM x 120". (DM)

December 28, 1988

Produced 0 Bbls oil, 0 Bbls H₂O, and 0 MCF vented in 24 hours pumping, 10 SPM x 120". Flow line frozen. (DM)

December 29-30, 1988

Pumping Unit down with engine problem. (DM)

December 31 - January 4, 1989

Pumping unit down with engine problem. (DM)

FEDERAL NO. 21-4 - cont.

January 5-6, 1989

Unit on. Vented 116 MCF in 24 hours pumping 10 SPM x 120". (DM)

January 7-8, 1989

Battery low - unable to start engine. (DW)

January 9-12, 1989

Flowline frozen. (DW)

January 13, 1989

Produced 0 Bbls oil, 0 Bbls H₂O and 39 MCF vented in 8 hours pumping, 10 SPM x 120". (DM)

January 16 - 24, 1989

Flowline frozen. (DM)

January 25, 1989

MIRU Ram Service Co. Blew well down. TOH with 4' perf sub, 15' M.A. and 108 3/4" plain rods. Rigged up BOPs. PU 1 jt of tbg. Tagged bottom and TOH tallying 84 joints of 2- 7/8" EUE tbg. Rigged up Western Co. Dropped 12 gal. frac sand ahead of load water. Took 92 Bbls to load the hole. Frac Mesaverde 2616' - 2717' KB with water 1 gal/1000 gal aquaflow as follows:

5,000 gal	Pad
10,000 gal	1 #/gal 20-40 sand
26,667 gal	15 #/gal 20-40 sand
4,550 gal	Flush

Average rate on sand - 43 BPM, 1200 PSI. Average rate on flush - 25 BPM, 1000 PSI. ISIP - 800 PSI. 400 PSI after 15 min. SWI. SDON. (CCM)

January 26, 1989

Well shut-in overnight after frac. Dead this morning. TIH with 2-7/8" EUE tbg with SN 1 joint off bottom. Tagged sand at 2620' K.B. Reverse clean to 2733' K.B. Pulled tbg. to 2600' K.B. Started swabbing. Had to work through paraffin first 3 runs. Made 12 runs total. Fluid level started at surface. Swabbed down to 750' K.B. - 75 Bbls water recovered, no gas or oil. Total frac load - 92 Bbls H₂O. Load to recover - 17 Bbls H₂O.

January 27, 1989

Tbg. dead. Csg. dead. Started swabbing. Initial fluid level - 800' K.B. Made total of 33 runs. Recovered 264 Bbls fluid. Ending fluid level 1000' K.B. Csg. built to 125 PSI. Gas kick after each run. Fluid cut - 5% oil the last 10 runs of the day. Saw a little sand occasionally on swab mandrel. Fine white sand which looks like formation, not frac sand. Total frac load - 1205 Bbls H₂O. Load to recover - 866 Bbls H₂O. SWI. SDON. (CCM)

FEDERAL NO. 21-4 - cont.

January 27, 1989

Tbg 125 PSI. Csg 200 PSI. Blew tbg down. Made three swab runs. Initial fluid level - 700' K.B. Next runs fluid level - 800' K.B. - 5% oil. Blew csg down. Ran tbg to tag sand @ 2727' K.B - 10' of rathole. Pulled tbg to 2679' K.B. Rigged down BOPs. Landed tbg and nipped up Wellhead. Ran 2-1/2" x 2 x 20 x R.W.B.C. pump from Service Pump Co. Final description of tbg and rods will follow. Total frac load - 1205 Bbls H₂O. Load to recover - 866 Bbls H₂O. (CCM)

January 28, 1989

Pumping unit engine quit, unit down 24 hours, no production. Could not restart. Need parts. (CCM)

January 31, 1989

Replaced pickup coil on engine. Started engine and unit. Made 5 or 6 strokes. Pump stuck with approximately 8' polish rod out. Rigged up Ram Service Co. Pump stuck in tbg. Stripped out of hole. Installed BOPs. Got all but 10 rods and one half tbg. Sand in tbg. Pulled 25,000 lbs to free rods. SDON. Total frac load 1205 Bbls H₂O. Total load to recover 866 Bbls H₂O. (Fizz)

February 1, 1989

Finish stripping out of hole. Had 2 jts of sand on top of pump. TIH with hydrostatic bailer, cleanout 60' of sand which appeared to be frac sand, 3 bad 3/4" plain rods. TIH with tbg, 1 jt SN, 82 jts 2-7/8", SN @ 2646', tail jt @ 2680' KB, 62 3/4" plain rods, 41 7/8" plain rods, 3 -6', 1 - 4' and 1 -2' pony rods, 2-1/2" X 2" X 20' RWBC. Spaced out, hung on. Started unit, flowline frozen. Pumped to pit overnight. Left Ram rigged up. SDON. Total load to recover 866 Bbls H₂O.