

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

FORM APPROVED
OMB NO. 1004-0137
Expires: February 28, 1995

5. LEASE DESIGNATION AND SERIAL NO.

NM-87227

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Coop Area
Eagle Mesa Entrada

8. FARM OR LEASE NAME, WELL NO.

EMU No. 1

9. APIWELL NO.

30-043-20175

10. FIELD AND POOL, OR WILDCAT

Eagle Mesa Entrada

11. SEC. T. R. M., OR BLOCK AND SURVEY OR AREA

M Sec. 12, T19N, R4W

12. COUNTY OR PARISH
Sandoval

13. STATE

New Mexico

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL:

OIL
WELL ☐GAS
WELL ☐DRY ☒Other WIW

b. TYPE OF COMPLETION:

NEW
WELL ☐WORK
OVER ☐DEEP-
EN ☐PLUG
BACK ☐DIFF.
CEN. ☐Other WIW

2. NAME OF OPERATOR

Merrion Oil & Gas Corporation

3. ADDRESS AND TELEPHONE NO.

610 Reilly Ave., Farmington, NM 87401-2634 (505) 327-9801

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 460' fsl & 330' fwl (SW SW)

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

Re-entry
11/10/94

16. DATE T.D. REACHED

5/11/95

17. DATE COMPL. (Ready to prod.)

Recompleted WIW

11/26/96

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

6698' GL/6711' GL

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

5486' TVD

21. PLUG, BACK T.D., MD & TVD

22. IF MULTIPLE COMPL., HOW MANY*

--

23. INTERVALS
DRILLED BY

ROTARY TOOLS

0-TD

CABLE TOOLS

--

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

Open hole 5542' MD -- 5727' MD

25. WAS DIRECTIONAL
SURVEY MADE

--

26. TYPE ELECTRIC AND OTHER LOGS RUN

None

27. WAS WELL CORED

No

CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
10-3/4", J55	40.5#	207' KB	15"	Surf-250 sxs, 295 cu.ft.	
7", J55	23#	5724' KB	8-3/4"	1st Stge: 3850' - est. 242 sxs	
				2nd Stge: 3240' - est. 450 sxs	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)
4-1/2" N-80	4809' KB	5542' KB	100 sxs	

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
3-1/2"	4833'	4833' 10k-set @ PIP @ 5727' MD 3-3/8"

31. PERFORATION RECORD (Interval, size and number)

Open hole 5542' MD - 5727' MD

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
---	RECEIVED MAY 30 1997

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
--		WIW				Prod	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
--	--	--	→	--	--	--	--
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (COR.)	
--	--	→	--	--	--	--	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

Sundry notice - injection well (approved)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from

SIGNED

Steven S. Dunn

TITLE

Drilg & Prod Mgr

DATE 4/21/97

*(See Instructions and Spaces for Additional Data on Reverse Side)

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.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
				Lewis Shale	Surface	
				Cliff House	446'	
				Point Lookout	2255'	
				Mancos	2402'	
				Gallup	3244'	
				Greenhorn	4240'	
				Dakota	4492'	
				Morrison	4618'	
				Entrada	5606'	5475'
				Total Depth	6078'	5491'

Distribution: 0+4 (BLM); 1-NMOCD; 1-Crystal; 1-Acctng; 1-Well File

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BLM

57 MAY 22 PM 2:21

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.
NM-87227

6. If Indian, Allottee or Tribe Name

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 Water Injection Well

2. Name of Operator
Merrion Oil & Gas Corporation

3. Address and Telephone No.
610 Reilly Ave., Farmington, NM 87401-2634 (505) 327-9801

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

460' fsl & 330' fw1 (sw sw)
Section 12, T19N, R4W

7. If Unit or CA, Agreement Designation
Coop Area
Eagle Mesa Entrada

8. Well Name and No.
EMU NO. 1

9. API Well No.
30-043-20175

10. Field and Pool, or Exploratory Area
Eagle Mesa Entrada

11. County or Parish, State
Sandoval, New Mexico

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 Injection well

- ☐ 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.)

RECEIVED
MAY 30 1997
OIL CON. DIV.
DIST. 3

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 has recompleted the above referenced well as an water injection well as follows:

11/13/96 MIRU Big "A" Rig #16 11-13-96. SDFN.

11/14/96 Well had no pressure. Install 7" tubing head. NU BOP. PU 7" Csg scraper, strap/rabbit & RIH w/ 2-7/8" EUE work string. Tag 4-1/2" liner top at 4,820' KB. Flush tbg. w/ water. TOO H w/ csg scraper. SDFN

11/15/96 PU 7" RBP and 7" packer. TIH. Set RBP at 4801'. LD 1 joint tbg. Set packer at 4771'. Press tested RBP to 500 psi - OK. Press tested csg above packer, leaked off. POH, testing csg for leak,. Located leak in 7" casing between 2150' and 2180'. Pumped into leak at 400 psi and 1 BPM. TOH with packer and LD-RBP. Retrieving head. Secured well and SDFN and weekend.

*** CONTINUED OTHER SIDE ***

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

Signature Steven S. Dunn

Title Drig & Prod Manager

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

FEB 03 1997

ACCEPTED FOR RECORD

FARMINGTON DISTRICT OFFICE

11/18/96 TIH with Baker 7" fullbore packer. Set packer at 2000'. RU Cementers Inc. Establish injection rate of 1.4 BPM at 550 psi. Load casing and pressure up to 500 psi. Squeeze casing leak with 50 sx Class B cement and 2% CaCl₂ (59 cu.ft.). Displace below packer. Shut down and start hesitation. SI holding 600 psi. RD Cementers Inc. Secure well. SDFN. (8 bbls cement outside pipe).

11/19/96 Release packer. TOH, LD packer and PU 7" casing scraper, 6-1/4" bit. TIH, tag cement at 2098'. RU power swivel, drill out $\pm$ 78' cement. Press test csg to 500 psi, leaked off 100 psi in 5 mins. TOH, LD scraper and bit. TIH, open-ended to 2179'. WO Cementers. RU Cementers and spot 10 sxs Class G cement (12 cu.ft.). TOH, PU 7" fullbore packer. TIH and set packer at 2000'. Displaced .5 bbls cement at 1000 psi, leaked off 50 psi in 10 mins. Displaced .1 bbl cement. Press holding at 1050 psi, pumped a total of .6 bbls. Shut in. RD Cementers. Secure well. Shut down until Thursday 10/21/96.

11/21/96 Release 7" packer. TOH, PU 7" casing scraper and 6-1/4" bit. TIH, tag cement at 2100', drilled out $\pm$ 80' cement. Press test csg to 550 psi - held 15 mins - OK. TOH, LD 7" csg scraper and bit. PU retrieving head and TIH to RBP. Circulate hole clean. TOH with 7" RBP. PU retrieving head for 4-1/2" FH packer. TIH, tag packer at 4860', could not latch on. Circulate hole, latch on to packer. Pull 40,000 over string weight to shear pins. Did not shear. Left pull on string. Secure well and SDFN.

11/22/96 4-1/2" FH packer sheared and released. Released 3-3/8" pipe and TOH. LD packers, secured well. SDFN and weekend at 11:00 am 11/22/96.

11/25/96 PU 3-3/8" PIP. TIH and set at 5727'. POOH & LD 2-7/8" tbg and 2-3/8" hydril tubing. RU to RIH with 3-1/2" tbg. PU 4-1/2" lok-set packer, 1 joint of 2-3/8", EUE, 8rd tubing, strap and PU 3-1/2", EUE, 9.3#, J55 plastic lined blue band tubing. SDFN.

11/26/96 Strap and RIH with 3-1/2" tbg. Set 4-1/2" lok-set packer at 4833'. Press tested casing to 500 psi - OK. Run injectivity test - 4 bpm at 200 psi, 5 bpm at 300 psi, 6 bpm at 425 psi, 7 bpm at 700 psi and 8 bpm at 700 psi. ND BOP, land tubing and NU WH. Get off packer and circulate packer fluid. Get back on packer, press test casing to 500 psi - held 15 mins OK. MIT test witnessed by Ernie Busch (NMOCD). Tubing landed at 4833'. RD & MOL at 5:00 PM.

Merrion Oil & Gas Corporation
Wellbore Schematic
Eagle Mesa Unit #1

Proposed Water Injection Bottom Hole Depth Reference Detail

Location: THL: 460' fls & 330' fwl (sw sw) Sec 12
BHL: 196' fls & 43' fwl (nw nw) Sec 13
T19N, R04W
Sandoval Co. NM

Elevation: 6,698' GL
6,711' GL

Date: 11/20/96

