

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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)

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

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

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 County,
New Mexico**

FORM APPROVED

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

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

8. (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 Oil & Gas Corporation has completed the horizontal redrill of this well as per the

attached reports, dated December 2, 1994 to November 30, 1995.

RECEIVED
FEB - 5 1997

OIL CON. DIV.
DIST. 3

ACCEPTED FOR RECORD

JAN 09 1997

FARMINGTON DISTRICT OFFICE

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

Signed **Steven S. Dunn**

Title **Drlg & Prod Mgr**

(This space for Federal or State office use)

Approved by
Conditions of approval, if any:

Title

NMOCD

MERRION OIL & GAS CORPORATION

FEDERAL 12 C1H

MISCELLANEOUS

Dec. 2, 1994

ON & OFF REPORT

Work Detail: Finished hookup up flowline. Cleaned up location after drilling rig moved out.
(CCM)

COMPLETION

Dec. 3, 1994

ON REPORT

Work Detail: MIRU Petro Rig No. 11 on 12/2/94. Drift and tally 3.5", 9.3#/ft, EUE tubing from Federal 14C1. Ran 21 joints of tbg 641.21' of pipe. Tubing fell through slips while stabbing the 22nd joint, collar hit the mission hand slips and string bounced up popping slips out of the bowl and the string fell down hole. Ran 2-3/8" EUE tubing, sub on the sandline with sinker bars and jars, tagged 3.5" tubing at \pm 4890' KB. Pulled sandline and sub. SDON. (CCM)

Dec. 4, 1994

Work Detail: TIH with cut-lip 3.5" EUE pin and bumper sub on 3.5" EUE tbg. Tagged fish top @ 4819' KB. Screwed into tubing and pulled all tubing out of hole. TIH with excess tubing. Prep to lay down. SDFN. (CCM)

Dec. 5, 1994

Shut down for Sunday. (CCM)

Dec. 6, 1994

Work Detail: TOH, laying down 3-1/2" work string. Change out wellhead. TIH with 100 joints of 3-1/2" EUE with seating nipple on bottom. Land tubing. RU to swab. SDFN. (ARM)
100 jts - 3011.73'; 11' KB; SN @ 3022.73' KB

Dec. 7, 1994

Summary: Swab 200 bbls fluid - 99+% water.

Work Detail: Swab 3-1/2" tubing to pit. IFL at 600'. Made 7 swab runs/hr, avg. recovery 4 bbls fluid per swab run. Swab to tank after 28th run. 1st through 28th runs 100% water, no oil. After 33rd run drop standing valve. Small oil show recovered on next run, made total of 50 runs, recovered 4 bbls per run average, final 6 runs oil show increased from trace to 2%. Shot fluid level after 50th run. FFL at 1145'. SDON. (TLM)

Dec. 8, 1994

Time	Fluid Level- Feet	Runs	Fluid Vol. - Bbls	Cum Vol. - Bbls	Bbls/Run	Oil Cut %	Oil-Bbls	Wtr Bbls
8:40 AM	617	--		200				
9:45 AM	1235	20	75	275	3.8	5%	4	71
10:50 AM	1235	20	83	358	4.2	5%	4	79
12:10 PM	1325	20	85	443	4.3	5%	4	81
1:40 PM	1355	30	120	563	4.0	5%	6	114
1:41 PM	1325	-	-	563		5%	-	-
1:42 PM	1250	-	-	563		5%	-	-
1:43 PM	1205	-	-	563		5%	-	-
1:44 PM	1205	-	-	563		5%	-	-
1:45 PM	1175	-	-	563		5%	-	-
1:46 PM	1130	-	-	563		5%	-	-
2:50 PM	1280	20	65	628	3.3	5%	3	62
3:15 PM	1280	8	32		4	5%	2	30
TOTALS		118	460	628			23	437

Work Detail: Roustabouts dug out bad pipe on water dump line from treater to water tank.
(TLM)

Dec. 9, 1994OFF REPORT UNTIL FURTHER ACTIVITY

Work Detail: SI, WO sub pump installations.

MERRION OIL & GAS CORPORATION

FEDERAL 12 C1H

COMPLETION

Dec. 20, 1994

ON REPORT

Work Detail: Deliver 2 spools elec cable, subpump and motor to location. Test cable good. Made flat to round cable splice. Retested cable, bad. Cut first splice. Respliced flat cable to second spool. Ready to run in hole. Power spoolers unavailable until 12/21/94. Shut down. Completed water disposal system electrical repair. (TLM)

Dec. 21, 1994

Work Detail: Shut down. WO power spoolers (TLM)

Dec. 22, 1994

Work Detail: MI Petro Well Service and Basin Power Spooler. Ran sub pump and tubing. i splice in Reda cable, made approx. 1200' from surface. Tubing: 3012.64'; Sub 4.35'; Motor 12.40'; Pump 12.74'; Protector 5.46'; Check and bleeder 1'. Total of tubing and pump 3048.59'. Hook up Reda cable at surface. Check voltage and panel. Turn well on. Check control panel in pump house, hi-level shut down not working. Separator and dump relief valve not working. (note: sub pump operating good). Shut pump down after producing for about 30 mins. Rel Petro Well Service and Basin Power Spooler. SDFN. (TLM)

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FEDERAL 12 C1H

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COMPLETION

Dec. 23, 1994

Work Detail: Started Reda pump at 3:45 pm. Flowed well for 1 hr while getting levels set in production unit. After 1 hour shot fluid level, FL approx. 40⁶⁰ jts from surface at 1807'. Production after 1 hr:

130 bbls water x 24 = 3120 bbls estimated 24 hour rate

5 Barrels oil x 24 = 120 bbls estimated 24 hour rate

Sample caught at wellhead after 45 mins. Shows approx. (5% sand) 5% oil and 95% water.

Sample caught after 1 hr 15 mins at wellhead show same oil and water cut but sand content is down from first sample - estimated 1%. 2nd fluid shot after 1 hr 20 mins showed FL at same place as first. (TLM)

Dec. 24, 1994

Work Detail: Produced 122 bbls oil in 19 hrs. Measured water rate 138 bbls/hr. Shot fluid level - 72 JTF or 2169' from surface. Took wellhead sample, showed approx. 5% oil, 95% water. Calculated 24 hr producing rate: 154 BOPD, 3312 BWPD (4.3% oil cut).

Dec. 25, 1994

Work Detail: Produced 131.7 bbls oil in 23 hrs. Measured water rate 136.6 bbls/hr. Shot fluid level - 69 JTF, or 2078' from surface. Took wellhead sample, showed approx. 5% oil, 95% water (5% sand). Calculated 24 hr producing rate: 137 BOPD, 3278 BWPD (4.0% oil cut).

Dec. 26, 1994

Work Detail: Produced 140 bbls oil in 30 hrs. Did not measure water rate or shoot fluid level. Calculated 24 hr oil rate: 112 BOPD.

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FEDERAL 12 C1H

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COMPLETION

Dec. 27, 1994

Work Detail: Produced 105 bbls oil in 23 hrs. Did not measure water rate or shoot fluid level.
Calculated 24 hr oil rate: 110 BOPD.

Dec. 28, 1994

Work Detail: Produced 70 BO in 18 hrs, 45 mins. Instantaneous water rate: 3500 BWPD.
Calculated 24 oil rate: 90 BOPD (2.5% oil cut). Water dumping to water storage tank has "color" to it, indicating possible need to chemically treat for emulsion. Wellhead sample indicated well is still producing a skim of sand. Water storage tank is leaking, flange on 12" line is leaking, and 6" butterfly valve needs replaced. (TGM)

Dec. 29, 1994

Work Detail: Produced 86 bbls oil in 24 hrs. Water rate = 2874 BWPD (2.9% oil-cut). Shot FL - 65 JTF, or 1958' from surface. Took wellhead sample, measured 3% oil, 1/2% sand. Gauged salt water storage tank - 18" oil in tank = 93.6 BO. Amperage reading on sub pump chart = 40 amp. (TGM)

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FEDERAL 12 C1H

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PRODUCTION

Feb. 10, 1995

Day No. 1 ON REPORT

Work Detail: Prior to move in, hauled 30 jts of 3-1/2" EUE and 105 jts of 2-7/8" PH6 hydril to location, unload on cat walk. MIRU Ram Rig No. 1 on 2/9/95. RU Power Spooler. Pull out of hole with 100 jts 3-1/2" EUE and ODI pump. Lay pump on ground. Tally out. RD Spoolers. SDFN. (ARM)

Daily Cost: \$4,400

AFE NUMBER - 94028: **\$316,700**

Cumulative Costs: **\$278,553**

Feb. 11, 1995

Day No. 2

Work Detail: TIH with 100 jts of 2-7/8" Hydril PH6, change-over, continue in hole with 3-1/2" tubing. Tag fill at approx. 5328' MD. could not get down. Pulled into 7" casing. NU stripper head, unload new ODI pump and load old ODI pump for shipment to Cody, Wy. SDFN. (ARM)

Daily Cost: \$2,450

AFE NUMBER - 94028: **\$316,700**

Cumulative Costs: **\$281,003**

MERRION OIL & GAS CORPORATION

FEDERAL 12 C1H

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WORKOVER

Feb. 12, 1995

Day No. 3

Work Detail: Haul reverse equipment to location and RU. Mixed 2 pits of mud, roll hole with mud. TIH, tag fill @ 5322' MD, could not wash through fill. Pulled tubing into 7". SDFN. (ARM)

Feb. 13, 1995

Shut down for Sunday. (ARM)

Feb. 14, 1995

Day No. 4

Work Detail: TOH with 2-7/8" & 3-1/2" tubing. PU reamer. TIH. CO approx. 60' to 5418'. Pld tbg up hole. SDON. (ARM)

Feb. 15, 1995

Day No. 5

Work Detail: RU Cementers Inc. pump truck. RIH. Tag fill at 5347' MD. Establish circulation = 6.5 BPM @ 700 psi. Slide and wash thru fill to 5407' MD. Hit hard spot. Rotate and circulate to 5413' MD. Clean up bad spot. Wash down to 5443' MD. Sloughing shale, slow going. Continue to wash down, increase slack off weight to 25K. Hung up at 5453' ± MD, work pipe, pulled free. Continue to rotate and ream at 5455'-60' MD. Unable to clean out deeper. Circulate clean. Pull into 7" casing. SDON. (Cleaned out 110' of hole.)

Feb. 16, 1995

Day No. 6

Work Detail: Finish TOH. Change out 4-3/4" blade bit to 4-3/4" mill tooth. TIH (mixed pit of mud to 65 second funnel viscosity). Tagged at 5386', PU power wash swivel, wash down to 5461'. CO out 1" in 1-1/2 hr (solid bottom). TOH. PU 6-1/8" button bit with 6-1/8" reamer and TIH. SDFN. (ARM)

MARRION OIL & GAS CORPORATION

FEDERAL 12 C1H

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WORKOVER

Feb. 17, 1995

Day No. 7

Work Detail: Finish TIH with 6-1/8" bit and 6-1/8" stabilizer, could not get bit and stabilizer out of kick off point. TOH. Remove stabilizer. TIH with 6-1/8" bit, tag at 5245', wash down and ream to 5456'. Work pipe, could not make any hole. Pull into 7". SDON. (ARM)

Feb. 18, 1995

Day No. 8

Work Detail: TOH. TIH open-ended to present TD @ 5456'. Spot 2 bbls 20/40 frac sand. Tag sand. 56' of plug. TOH with 3-1/2" and lay down 2-7/8". RU to run 3-1/2". SDFN. (ARM)

Feb. 19-21, 1995

Shut down for weekend and Holiday.

Feb. 22, 1995

Day No. 9

Work Detail: PU 3-1/2", EUE, 9.3# tubing. RIH. Hang at 3909' MD. RU to swab. Results as follows:

<u>Time</u>	<u>Fluid Level</u>	<u>Bbls/Hr</u>	<u>Total Bbls</u>	<u>% Oil</u>	<u>Total BPD</u>	<u>Bbl/ft</u>
11:00 am	= surface	---	0	---	---	---
12:00 pm	750'	43.5	44	0	1044	---
1:00 pm	1000'	43.5	87	2	1044	2.73
2:00 pm	1000'	43.5	131	2	1044	2.73
3:00 pm	1000'	43.5	174	2	1044	2.73
4:00 pm	1000'	43.5	218	2	1044	2.73
5:00 pm	1000'	43.5	261	2	1044	2.73
5:30 pm	1000'	21.7	283	2	1044	2.73

Shut-in, SDON. (ARM)

MERRION OIL & GAS CORPORATION

FEDERAL 12 C1H

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WORKOVER

Feb. 23, 1995

Day No. 10

Work Detail: SI 0/0 psi. Run swab. IFL @ 500'. Swab 1-1/2 hrs, recovered 65 bbls fluid, 1% oil cut. Fluid level stabilized at 1000'. RD swab. POH. SDON. (ARM)

Feb. 24, 1995

Day No. 11

Work Detail: PU RBP. RIH, set at 5000' ±. RU to swab. IFL @ 300'. Swab 128 bbls 100% water. FFL @ 3750'. Made additional 4 runs, 30 mins apart. FL remained at 3750'. Shut-in. SDON. (ARM)

Feb. 25, 1995

Day No. 12

OFF REPORT UNTIL FURTHER ACTIVITY

Work Detail: SIP 0/0 psi. FFL (2-24-95) at 3750' KB. SN @ 3900' KB ±. Pull swab from seating nipple. Recovered 400' (3.5 bbls) 100% water. (Represents fall-down inside casing and tubing and inflow overnight.) Pulled 3 more runs. FFL @ 3750' KB. No recovery. No inflow. RD swab tools. RIH, release RBP. POH. RIH open-ended to 5232' MD ±. Roll hole with 8.4 ppg drilling mud (35-45 sec viscosity). POH. LD 2-7/8" hydriL PH6 work string. RIH with 130 jts 3-1/2" EUE tubing. Hung in slips open-ended at 3909' KB ±. Shut in well. Release Ram Rig No. 1. (SSD)

MERRION OIL & GAS CORPORATION

EMU No. 1

COMPLETION

May 4, 1995

Work Detail: MIRU Ram Rig No. 1 on 5/3/95. RU to swab, 1st run FL 500'. Started gauging by hour - 1st hour made 10 runs, recovered 72 BF, 3-1/2% oil cut. FL stabilized at 900'. 2nd hr made 9 runs, recovered 79 BF, 3-1/2% oil cut; 3rd hour made 10 runs, recovered 82 BF, 3-1/2% oil cut; 4th hour made 9 runs, recovered 83 BF, 3-1/2% oil cut; 5th hour made 6 runs, recovered 56 BF, 3-1/2% oil cut. Total recovered today 378 BF. SDFN. Avg swab rate 1814 BFPD; PI = 4.5 BPD/ft. (ARM)

May 5, 1995

Work Detail: ND WH. TOH with 65 stands 3-1/2" EUE. Tally 30 jts 2-7/8" PH6 hydril. PU 4-1/2" BP, 6 jts 2-7/8", 7" packer. 24 jts 2-7/8" PH6. TIH with 3-1/2", set 4-1/2" BP at 4854'. set 7" packer at 4644'. RUTS 1st run FL @ 500', made 3 runs, swabbed tubing - dry. Wait 15 mins. 1 run dry, wait 30 mins. 1 run dry. SDFN. (ARM)

May 6, 1995

Work Detail: Rel 7" packer. Swab test, 1st run FL @ 500'. Continue swabbing. FL dropping 400'/run. Made 7 runs, shut down 15 mins. FL same. Shut down 15 mins. FL same. No fluid entry. TIH, release BP. TOH, LD 2-7/8" PH 6 hydril. SDFN. (ARM)

May 7-8, 1995

Shut down for weekend. (ARM)

MERRION OIL & GAS CORPORATION

EMU No. 1

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COMPLETION

May 9, 1995

Work Detail: Shoot IFL, start swab test.

<u>Time</u>	<u>Rec. Vol.</u>	<u>Elapse Time</u>	<u>Cut</u>	<u>Fluid Level</u>	<u>Jts</u>	<u>Remarks</u>
11:30 AM	0			50'		IFL
1:10 PM	80	1 hr 40 mins	0%	753' KB	25	
2:10 PM	43	1 hr	3.5%			
2:20 PM	---	10 mins		679' KB	22.5	SD to clean formation sand out of lubricator and pour new rope socket.
2:30 PM	---	10 mins		664' KB	22	
2:40 PM	---	10 mins		649' KB	21.5	
2:50 PM	---	10 mins		634' KB	21.4	
3:20 PM	---	20 mins		634' KB	21	
4:20 PM	79	1 hr	5%	694' KB	23	
5:20 PM	83	1 hr	5%	725' KB	24	
6:20 PM	81	1 hr	5%	725' KB	24	

Recovered 366 bbls in 5 hr 40 mins swabbing. Final cut = 5% oil. SDON. (ARM)

May 10, 1995

OFF REPORT

Work Detail: Shot fluid level 610' KB, 23 jts. RDMOL. (ARM)

MERRION OIL & GAS CORPORATION

EMU No. 1

WORKOVER

May 16, 1995 **ON REPORT**

Work Detail: Spot rig on location - Ram Rig No. 1. SDFN. (ARM)

May 17, 1995

Work Detail: MIRU Ram Rig No. 1 on 5/16/95. TOH and stand back 2500' - 3-1/2" LD 1400'
3-1/2" EUE on float. SDFN. WO subpump delivery. (ARM)

May 18, 1995

Work Detail: WO subpump delivery. (ARM)

May 19, 1995 **OFF REPORT**

Work Detail: PU motor and pump. RU spoolers. TIH with 81 jts 3-1/2" EUE. Land tubing,
tbg 2464' KB. Put well back to production at 6:30 PM 5/18/95. RDMOL. (ARM)

MERRION OIL & GAS CORPORATION

EMU No. 1

WORKOVER

Nov. 23, 1995 ON REPORT

Work Detail: MIRU Big 'A' Well Service Rig #16 on 11/22/95. ND WH. Spot spooling truck. TOH with 81 jts of 3-1/2" tbg and electric cable. Visually check cable for damage. Cable looks OK all the way to pump. LD submersible pump. TIH with 1 stands of 3-1/2" tbg and NU WH. SD for Holiday and weekend. Note. Received 33 jts of 2-3/8" tbg and 80 jts of 2-7/8" tbg. (JT)

Nov. 24-27, 1995 Shut down for Holiday and weekend.

Nov. 28, 1995

Work Detail: PU 3-7/8" bit on 2-3/8" CS Hydril, 2-7/8" EUE and 3-1/2" EUE tubing. TIH to 5902' KB, no fill. TOH and stand back tubing. Prep to run inflatable packer on 11/28/95. Ran one joint of 3-1/2" tbg and NU WH to shut well in. (PT)

Nov. 29, 1995

Work Detail: PU & TIH with 3-3/8" PIP packer and 4-1/2" FH packer. Set PIP packer at 5879' KB and FH packer at 4853' KB. Loaded tubing with 39 bbls of produced water. Press tubing to 1500# in 3 stages and set packers. J'd off FH packer and TOH. Stood 3-1/2" back and LD 2-7/8". Prep to run submersible pump in AM. (PT)

Nov. 30, 1995 OFF REPORT

Work Detail: Ran ODI submersible pump on 81 joints (2442.23') of 3-1/2" tubing. Started pump and pumped fluid to surface to check pump action. Pumping OK. Shut down pump and connected well to flowline. RDMOL. (PT)