

## OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-103  
Revised 10-1-78

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DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

3a. Indicate Type of Lease	
State <input type="checkbox"/>	Fee <input checked="" type="checkbox"/>
5. State Oil & Gas Lease 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 -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER-		7. Unit Agreement Name	
2. Name of Operator Merrion Oil & Gas Corporation		8. Farm or Lease Name Edna	
3. Address of Operator P. O. Box 1017, Farmington, New Mexico 87499		9. Well No. 3R	
4. Location of Well UNIT LETTER <u>D</u> <u>790</u> FEET FROM THE <u>North</u> LINE AND <u>790</u> FEET FROM THE <u>West</u> LINE, SECTION <u>7</u> TOWNSHIP <u>24N</u> RANGE <u>6W</u> NMPM.		10. Field and Pool, or Wildcat Devils Fork Gallup	
11. Elevation (Show whether DF, RT, GR, etc.) 6802' GL		12. County Rio Arriba	

16.

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

## NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>

## SUBSEQUENT REPORT OF:

REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER <u>PBTD, first production</u> <input type="checkbox"/>	

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) \*SEE RULE 1103.

PBTD 5980' KB.

First Production 9/23/84

**RECEIVED**  
OCT 02 1984  
OIL CON. DIV.  
DIST. 3

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED [Signature] TITLE Operations Manager DATE APPROVED BY Original Signed by FRANK T. CHAVEZ TITLE SUPERVISOR DISTRICT # 3 DATE OCT 02 1984

CONDITIONS OF APPROVAL, IF ANY:

MERRION OIL & GAS CORPORATION

Edna 3R  
Sec. 7, T24N, R6W  
Rio Arriba Co., New Mexico

9/6/84 Bridge plug and packer set over bottom perfs same as yesterday. 4840 - 4903' KB. Fluid level @ 3000' KB. Swabbed 4 Bbls. Zone dry.

Caught bridge plug. Pulled and set plug @ 4825' KB. Set packer @ 4760' KB. Tested 5 perfs, 4785, 4787, 4800, 4805, 4810' KB. Swabbed 7 Bbls. Swabbed dry. Waited 1 hour. Swabbed dry again. Made 1.75 Bbls fluid. 40% oil - no gas.

Unset packer. Pulled bridge plug. Pulled to set bridge plug @ 4670' KB. Set packer @ 4620' KB. Test Mancos perfs, 4644, 4648, and 4652' KB. Swabbed down in 4 Bbls. Waited 1 hour. Well made 1 Bbl with 1% oil, rest water. Waited 1 hour. Perfs made 2.5 Bbls water, no oil, all water. Very little gas. Left tubing open. Shut down overnight.

9/7/84 Top 3 holes, 4644, 4648, and 4652' KB, open for fluid entry overnight. Fluid level @ 2500' KB. Swabbed down 5.5 Bbls. Wait 1 hour. Swabbed down 2 Bbls, 2% oil. Trip out of hole with 2-3/8" tubing, Model R packer and Model C bridge plug. Trip in hole and retrieve wireline set bridge plug. Tagged sand @ 4915' KB. Cleaned out 45' of sand and pulled bridge plug from 4960' KB. Trip out of hole with tubing and bridge plug. Start tripping in hole with 2-3/8" pumping string. (CCM)

9/8/84 Finish tripping in hole with tubing pumping string. Landed with seating nipple approximately 10' below bottom perf. Left 185 joints of 2-3/8" tubing in the hole. Ran pump from Baldwin with rods as follows: 40 - 3/4" plain, 83 - 5/8" plain, 41 - 5/8" scraped, 72 - 3/4" scraped. Shut well in. Shut down over weekend. (CCM)

9/11/84 Move pumping unit from Edna No. 3 and install. Break out separator on Edna No. 4. Prepare to move unit. (JCA)

9/12/84 Set separator and start on flowline. Shut in.

9/13/84 Shut in. Working on flowline to battery.

7/07, 7/08, 7/09, 7/10, 7/11 KB. Total of 10 holes per Density Log.  
Rigged down Petro Wireline. Trip in hole with Baker straddle tools.  
Spotted 250 gals. 15% HCL across perfs and breakdown as follows:

2nd Stage Breakdown - 12 settings:

2 holes, 4898 & 4903' KB, pumped in @ 2350 PSI @ 2.1 BPM, ISIP 1900 PSI.

1 hole, 4886' KB, pumped in @ 3300 PSI @ 2 BPM, ISIP 1900 PSI.

1 hole, 4878' KB, pumped in @ 3700 PSI @ 1 BPM, ISIP 1700 PSI.

1 hole, 4868' KB, pumped in @ 3600 PSI @ 1.5 BPM, ISIP 1900 PSI.

1 hole, 4859' KB, pumped in @ 4000 PSI @ 1.0 BPM, ISIP 1400 PSI.

1 hole 4849' KB, pumped in @ 3900 PSI @ 1.6 BPM, ISIP 1900 PSI.

1 hole, 4840' KB, pumped in @ 4000 PSI @ .6 BPM, ISIP 1800 PSI.

1 hole, 4810' KB, pumped in @ 2700 PSI @ 2.0 BPM, ISIP 1500 PSI.

2 holes, 4800 & 4810' KB, pumped in @ 2600 PSI @ 2.4 BPM, ISIP 1500 PSI.

2 holes, 4785 & 4787' KB, pumped in @ 2900 PSI @ 2.5 BPM, ISIP 1600 PSI.

2 holes, 4648 & 4652' KB, pumped in @ 3100 PSI @ 2.5 BPM, No ISIP, Communicated.

2 holes, 4644 & 4648' KB, pumped in @ 3100 PSI @ 2.5 BPM, ISIP 1500 PSI.

Rigged up Western N2. Dropped tubing below perfs. Blew casing dry.

Tripped out of hole with tubing and straddle tools. Shut well in.

Shut down overnight. (CCM)

Had planned to frac. Western couldnot get all N2 pumps today. Plan to frac tomorrow.

8/31/84 Rigged up Western Co. and fraced Mesaverde and Upper Mancos with 75 Quality foam, 1 gal/1000 Aquaflow.

10,000 Gal.	Foam Pad
5,000 Gal.	1 #/gal. 20/40 sand
10,000 Gal.	1.5 #/gal. 20/40 sand
10,000 Gal.	2 #/gal. 20/40 sand
3,263 Gal.	Foam Flush

Total Sand - 40,000 Lbs. 20/40 sand.

Maximum Pressure - 3900 PSI. Average Pressure - 3850 PSI.

Pressure after 10 minutes - 2700 PSI.

Total Water - 220 Bbls.

Total N2 - 853,338 SCF.

Shut well in 1.5 hours. Flowed back to reserve pit for 2 hours.

Pressure down to 300 PSI. Put flow to frac tank overnight through

3/8" positive flow choke. Shut down overnight. (CCM)

This AM: Well made 50 Bbls fluid to frac tank overnight. Well gassing slightly.

9/1/84 Well made 50 Bbls fluid overnight. Well gassing slightly.

Trip in hole with 2-3/8" tubing, saw-tooth collar on bottom, seating nipple 1 joint off bottom. Tagged sand @ 4915' KB. Bottom perf 4903'

KB. Pulled tubing to 4630' KB and swabbed 40 Bbls fluid (initial

fluid level 2500' KB). 20% oil. Well started flowing. Casing 75

PSI. Tubing 10 PSI. FLOWed 10 Bbls in 1 hour, 25% oil. Well died.

Made 2 swab runs. Fluid @ 4000' KB. Well flowed 1 more hour. Made

10 Bbls fluid, 40% oil. Well died. Fluid level @ 4600' KB. Swabbed

and flowed 5 Bbls next hour. 40% oil. Total fluid 65 Bbls. Swabbed

and flowed today. Shut down overnight. (CCM)

Daily est. cost: \$1,500.00. Cum. est. cost: \$79,146.00.

9/2/84 Swabbed and flowed total of 64 Bbls fluid in 24 hours. Well

made 8 Bbls fluid previous overnight. Rig swabbed 56 Bbls fluid

throughout the day. Stabilized rate of 2 Bbls/hour total fluid with

70% oil. Very little gas. Oil cut fluctuates some. Left open to

tank. 24 hour swabbing rates calculated as follows:

33.5 BOPS

14.5 BWPD.

9/3/84 Well dead, casing 300 PSI. 0 production.

9/4/84 Well dead, casing 300 PSI. 0 production.

9/5/84 Tubing dead. No production overnight. 300 PSI on casing.

Made 1st swab run. Fluid level @ 2500' KB. Tubing went on vacuum.

2nd run fluid level @ 3000' KB. Tubing blowing. Made 7.5 Bbls per

run. Total swabbed 15 Bbls, 40% oil. Blew casing down. Trip out of

hole with 2-3/8" tubing. Trip in hole with Baker Model C retrievable

bridge plug and Model R packer. Set bridge plug @ 4908' KB. Set

packer @ 4848' KB. Isolated 8 perfs, 4840, 4848, 4859, 4868, 4878,

4886, 4898, 4903' KB. Swabbed tubing dry. Waited 1 hour for fluid

entry. Made 2 swab runs. Got 1.5 Bbls fluid, 75% oil. Waited

another hour. Swabbed dry. 1 Bbl fluid, 75% oil, 25% water. Left

packers set overnight. (CCM)

MERRION OIL & GAS CORPORATION

Edna 3R  
Sec. 7, T24N, R6W  
Rio Arriba Co., New Mexico

8/3/84 Temperature Survey found top of cement @ 600 ft.  
8/22/84 Steam cleaned Bayless Rig No. 6. Moved rig to Edna 3R and finished cleaning. (CCM)  
8/23/84 Pick up 3-7/8" bit, casing scraper, 2-3/8" tubing. Trip in, tag stage tool @ 4986' KB. Drill out, pressure test to 4000 PSIG, OK. Trip in, clean out to 5975' KB. Pressure test to 4000 PSI, OK. Trip out of hole. Shut down. (CCM)  
8/24/84 Rigged up Petro Wireline. Ran Gamma Ray Correlation Log from PBTD - 4300' KB. Perforated select fire 19 holes, .34" size, as follows per Density Log: 1 hole each from bottom up. 5887, 5879, 5874, 5872, 5869, 5849, 5845, 5762, 5757, 5755, 5753, 5749, 5737, 5735, 5733, 5697, 5685, 5684, 5661' KB. Trip in hole with Baker Straddle Tools hydro-testing 2-3/8" tubing in the hole. Tubing tested to 5000 PSI - all good. Set tools @ the bottom perf. Western rolled the hole with 10 Bbls gel plug. Loaded the hole with frac fluid. Spotted 250 Gal. 15% HCL across the perfs. Broke down perfs as follows:  
1 hole, 5887' KB, brokedown @ 1800 PSI, pump in @ 2.3 BPM @ 2600 PSI. ISIP 800 PSI.  
4 holes, 5869, 72, 74. & 79' KB, pump in @ 3.7 BPM, 2200 PSI, ISIP 700 PSI.  
2 holes, 5845 & 49' KB, pump in 2100 PSI @ 2.4 BPM, ISIP 1000 PSI.  
1 hole, 5760' KB, pump in 2000 PSI @ 2.3 BPM, ISIP 450 PSI.  
4 holes, 5749, 53, 55, 57' KB, pump in 2300 PSI @ 3.8 BPM, ISIP 450 PSI.  
3 holes, 5733, 35 & 37' KB, pump in 2400 PSI @ 3.0 BPM, ISIP 600 PSI.  
1 hole, 5697' KB, pumped in @ 3100 PSI, 2.3 BPM, ISIP 700 PSI.  
2 holes, 5684 & 85' KB, pump in 2500 PSI, 2.9 BPM, ISIP 800 PSI.  
1 hole, 5661' KB, pump in 3700 PSI, 2.2 BPM, ISIP 1300 PSI.  
Unloaded hole with N2. Start tripping out of hole with tubing and straddle tools.  
8/25/84 Finished tripping out of hole with Baker Straddle Tools. Rigged up Western Co. to foam frac 1st Stage Gallup as follows: 75 Quality Foam, 1 gal/1000 Aquaflo.

20,000 Gal.	Foam Pad
5,000 Gal.	1 #/gal. 20/40 sand
10,000 Gal.	1-1/2 #/gal. 20/40 sand
10,000 Gal.	2 #/gal. 20/40 sand
15,000 Gal.	2-1/2 #/gal. 20/40 sand
10,000 Gal.	3 #/gal. 20/40 sand

N2 flush Western fluid pumps brokedown.  
107,500 Lbs. 20/40 sand. Total water - 389 Bbls. Average pressure 3150 PSI. Average Rate - 25 BPM. ISIP 2850 PSI. Total N2 - 1,479,081 SCF. Pressure after 10 minutes - 2850 PSI. Shut well in 1.5 hours. Opened well to reserve pit through positive flow choke. Well started making mist of oil. Pressure @ 500 PSI. Put flow to frac tank overnight through 3/8" positive flow choke. Shut down overnight. (CCM)  
8/26/84 Well made 14 Bbls oil to frac tank - slight blow.  
8/27/84 Well gassing slightly - no fluid production.  
8/28/84 Well dead. Trip in hole with saw-tooth collar on bottom. Seating nipple 1 joint off bottom. Tagged sand @ 5740' KB. Reverse circulated with water 240' of sand out to 5980' KB. Pulled up and swabbed 95 Bbls fluid, 10% oil. Fluid level @ 4500' KB. Tubing slight blow. Casing on vacuum. Left tubing open. Shut down overnight. (CCM)  
8/29/84 Fluid level 3500' KB. Started out swabbing 10% oil, 150 PSI casing. Started getting 50% oil, 50% water after swabbing 55 Bbls. Swabbed total of 67 Bbls today. Last 2 hours well swabbed down to have 500' in the hole. 100% oil. Swabbing approximately 9 Bbls/hour. Estimated gas rate 50 MCF/Day. Trip out of hole with tubing. Shut rams. Left casing open to frac tank. Shut down overnight. (CCM)  
8/30/84 Well dead overnight. Rigged up Petro Wireline. Ran and set Baker wireline set retrievable bridge plug @ 4960' KB. Loaded the hole with frac fluid. Pressure test plug to 4000 PSI. Perforated Mesaverde - Upper Mancos with 3-1/8" select fire, .34" size holes as follows:

# MERRION OIL & GAS CORPORATION

Edna 3R  
Sec. 7, T24N, R6W  
Rio Arriba Co., New Mexico

7/21/84 Day No. 1. TD 228. Current operation waiting on cement. Spud mud. Ran 5 joints 8-5/8", 24 #/ft, J-55 surface casing set @ 224' KB with 170 sx (200.6 cu. ft.) Class B. Circulated 2 Bbls to surface. Plug down @ 1:00 AM.  
7/22/84 Day No. 2. TD 2380. Current operation drilling. Mud wt. 8.9, Vis. 35, Water Loss 7.1. Survey: 733' - 1, 1235' - 1, 1728' - 3/4, 1884' - 1.  
7/23/84 Day No. 3. TD 3400. Current operation drilling. Mud wt. 8.9, Vis. 34, Water Loss 7. Survey: 2767' - 3/4, 2798' - 0, 3300' - 1/4.  
7/24/84 Day No. 4. TD 4132. Current operation drilling. Mud wt. 8.9, Vis. 36, Water Loss 7. Survey: 3800' - 1.  
7/25/84 Day No. 5. TD 4876. Current operation drilling. Mud wt. 8.9, Vis. 35, Water Loss 7. Survey: 4303' - 1-1/4, 4803' - 1-1/4.  
7/26/84 Day No. 6. TD 5441. Current operation tripping. Mud wt. 9, Vis. 35, Water Loss 8. Survey: 5300' - 1.  
7/27/84 Day No. 7. TD 5925. Current operation drilling. Mud wt. 9, Vis. 38, Water Loss 8. Survey: 5441' - 1-1/4.  
7/28/84 Day No. 8. TD 6020. Current operation logging. Rig up Welex. Logs stopped @ 1731. Trip in hole to wash bridges. Ran IES Induction and Compensated Density Logs. Rig down Welex and prepare to run 4-1/2" casing.  
Daily est. cost: \$10,606.00. Cum. est. cost: \$81,931.00.  
7/29/84 Lay down drill pipe. Rig up to run casing. Ran new 4-1/2", 10.5 #/ft, K-55 Benteler seamless as follows:  
Drillers TD 6020' KB  
Loggers TD 6023' KB  
Casing TD 6022' KB

Item	Length	Depth, KB
Differential Fill Float Shoe	1.70	6022
1 Shoe Joint	39.68	
Latch down baffle	0.0	5980.62 PBTD
25 joints 4-1/2" casing	992.09	
Stage Tool	2.40	4986.13
126 joints 4-1/2" casing	<u>5000.57</u>	
Total of 152 joints run. Total length	6036.44	

Left 16 joints on racks. Circulated last joint down. Dowell cemented 1st Stage. Pumped 10 Bbls water ahead. Mixed 225 sx Class H 2% gel, yield 1.22 cu. ft/sk (275 cu. ft.). Shut down, drop plug, wash up. Displaced with 15 Bbls H2O, 80 Bbls mud. Bumped plug. Bled off pressure. Dropped opening bomb. Opened stage tool and circulated for three hours. Started second stage. Pumped 10 Bbls H2O ahead. Mixed 700 sx Class B 2% D-79 (yield 2.06 cu. ft/sk, 1442 cu. ft.) followed by 100 sx Class H 2% gel (122 cu. ft.). Displaced with 79 Bbls H2O. Closed tool with 2700 PSI. Bled off pressure, tool held fine. Plug down @ 10:45 PM Landed casing as cemented. Cut off. Preparing to move off. (SSD)