

## MERRION OIL &amp; GAS CORPORATION

P. O. Box 1017  
FARMINGTON, NEW MEXICO 87499

October 3, 1984

New Mexico Oil Conservation Commission  
1000 Rio Brazos Road  
Aztec, New Mexico 87410

RECEIVED  
OCT 05 1984  
OIL CON. DIV.  
DIST. 3

Re: Edna 3R  
790' FNL and 790' FWL  
Sec. 7, T24N, R6W  
Rio Arriba Co., New Mexico

Dear Mr. Chavez,

We request administrative approval to down hole commingle production from the Mesaverde and Gallup Formations in the above referenced well. Please consider the following:

1. Production tests on individual formations:

Gallup	15 BOPD	0 BWPD	75 MCFG/Day	Pumping
Mesaverde	4 BOPD	9 BWPD	25 MCFG/Day	Pumping

2. Total combined oil production rate is 19 BOPD which does not exceed the depth bracket allowable of 30 BOPD.

3. Both zones require artificial lift, and neither zone produces more water than the oil limit stated above.

4. Bottomhole pressure:

Gallup	1300 PSI - Estimated from other Gallup wells. Some drainage has occurred from Edna 3 well (plugged).
Mesaverde	1400 PSI - Estimated

5. Production Forecast (combined):

Oil	Stabilized @ 10 BOPD, decline @ 1.5 - 2% per month.
Gas	Stabilized @ 80 MCF/D, decline @ 0.75% per month.

6. Allocation Formula:

Gallup	- Oil	$\frac{15 \text{ BOPD}}{19 \text{ BOPD}}$	- 79% of total oil production
	Gas	$\frac{75 \text{ MCF/Day}}{100 \text{ MCF/Day}}$	- 75% of total gas production

6. Continued

Mesaverde - Oil  $\frac{4 \text{ BOPD}}{19 \text{ BOPD}}$  - 21% of total oil production

- Gas  $\frac{25 \text{ MCF/Day}}{100 \text{ MCF/Day}}$  - 25% of total gas production

Ownership in both formations is common and the value of crude oil produced will be unaffected by commingling.

If further is required, please advise.

Yours truly,

MERRION OIL & GAS CORPORATION



Steve S. Dunn, Operations Manager

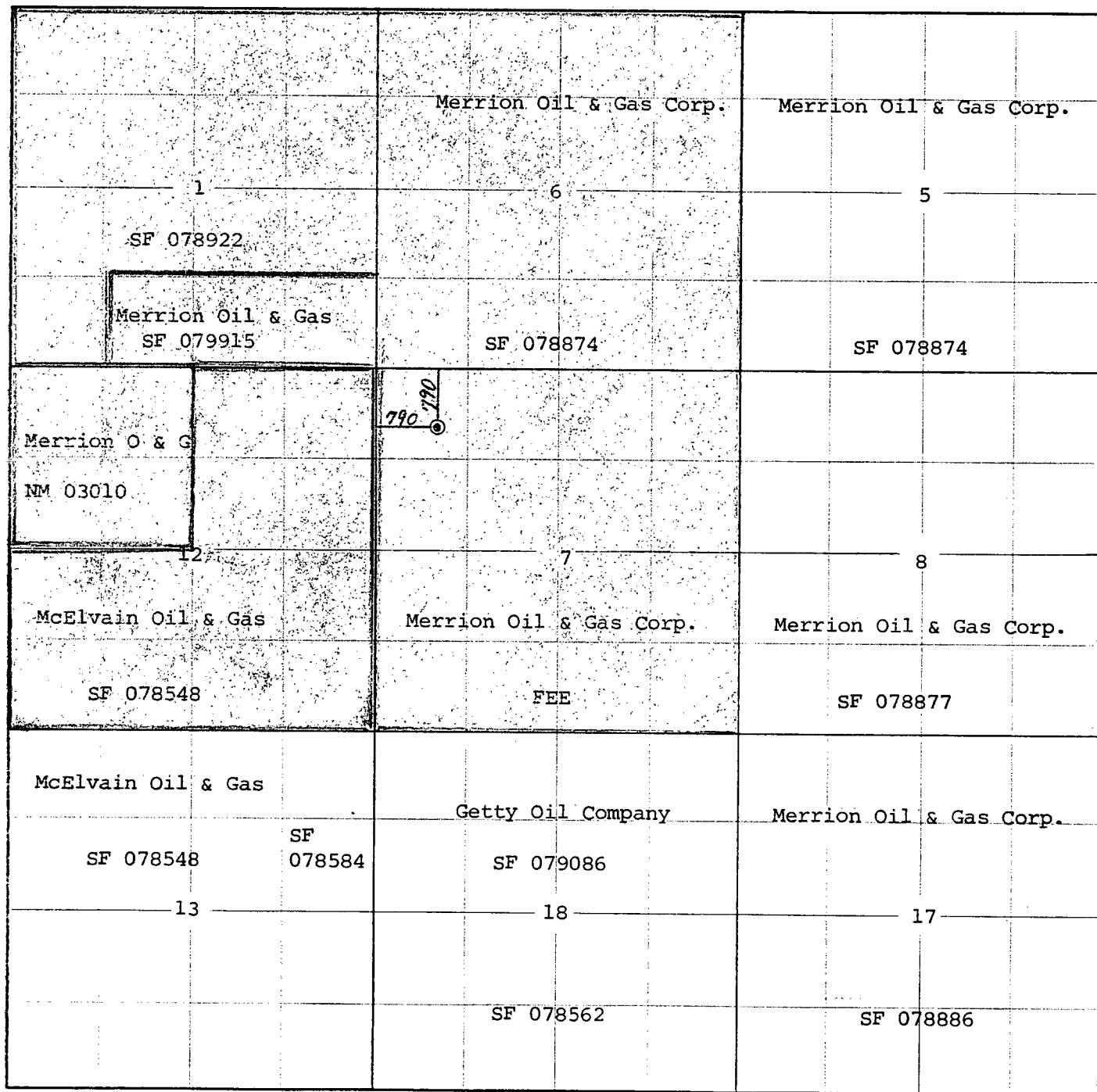
SSD/am

Enc.

**MERRION OIL & GAS CORPORATION**

EDNA 3R

TOWNSHIP 24N RANGE 6W COUNTY Rio Arriba STATE New Mexico



## MERRION OIL &amp; GAS CORPORATION

P. O. Box 1017  
 FARMINGTON, NEW MEXICO 87499

October 3, 1984

New Mexico Oil Conservation Commission  
 1000 Rio Brazos Road  
 Aztec, New Mexico 87410

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 Sec. 7, T24N, R6W  
 Rio Arriba Co., New Mexico

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Yours truly,

MERRION OIL & GAS CORPORATION

  
\_\_\_\_\_  
Steve S. Dunn, Operations Manager

SSD/am

Enc.

MERRION OIL & GAS CORPORATION

EDNA 3R

TOWNSHIP 24N RANGE 6W COUNTY Rio Arriba STATE New Mexico

	Merrion Oil & Gas Corp.	Merrion Oil & Gas Corp.
1	6	5
SF 078922		
Merrion Oil & Gas SF 079915	SF 078874	SF 078874
Merrion O & G NM 03010	790 790	
12	7	8
McElvain Oil & Gas	Merrion Oil & Gas Corp.	Merrion Oil & Gas Corp.
SF 078548	FEE	SF 078877
McElvain Oil & Gas	Getty Oil Company	Merrion Oil & Gas Corp.
SF 078548 SF 078584	SF 079086	
13	18	17
	SF 078562	SF 078886

MERRION OIL & GAS CORPORATION

P. O. Box 1017  
FARMINGTON, NEW MEXICO 87499

October 24, 1984

New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Attention: Mr. David Catanach

Re: Edna 3R  
790' FNL and 790' FWL  
Sec. 7, T24N, R6W  
Rio Arriba Co., New Mexico


Dear Mr. Catanach,

Enclosed is a copy of the letter which we sent by certified mail to McElvain Oil and Gas Properties, the offset owner for the above captioned property.

If any additional information is required, please contact me.

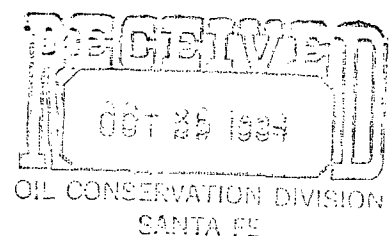
Yours truly,

MERRION OIL & GAS CORPORATION

  
Steve S. Dunn, Operations Manager

SSD/am

Enc.



MERRION OIL & GAS CORPORATION

P. O. Box 1017  
FARMINGTON, NEW MEXICO 87499

October 24, 1984

McElvain Oil and Gas Properties  
P. O. Box 2148  
Santa Fe, New Mexico 87501

Attention: Mr. T. H. McElvain, Jr.

Re: Edna 3R  
790' FNL and 790' FWL  
Sec. 7, T24N, R6W  
Rio Arriba Co., New Mexico

Dear Mr. McElvain, Jr.,

Enclosed is a plat which indicates you as an offset owner to the above captioned property. We have filed with the New Mexico Oil Commission for permission to commingle the Gallup and Mesaverde. We would appreciate your advising the commission if you have no objection to this commingling.

Thank you for your assistance in this matter.

Yours truly,

MERRION OIL & GAS CORPORATION

  
\_\_\_\_\_  
Steve S. Dunn, Operations Manager

SSD/am

Enc.



MERRION OIL & GAS CORPORATION

EDNA 3R

TOWNSHIP 24N RANGE 6W COUNTY Rio Arriba STATE New Mexico

		Merrion Oil & Gas Corp.	Merrion Oil & Gas Corp.		
1		6	5		
SF 078922					
Merrion Oil & Gas SF 079915		SF 078874	SF 078874		
Merrion O & G NM 03010		790 790			
12		7	8		
McElvain Oil & Gas SF 078548		Merrion Oil & Gas Corp. FEE	Merrion Oil & Gas Corp. SF 078877		
McElvain Oil & Gas SF 078548	SF 078584	Getty Oil Company SF 079086	Merrion Oil & Gas Corp.		
13		18	17		
		SF 078562	SF 078886		

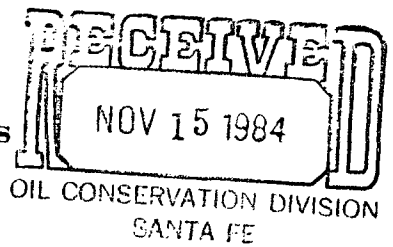
T. H. McELVAIN OIL & GAS PROPERTIES

T. H. McELVAIN, JR., MANAGER

220 SHELBY STREET

P. O. Box 2148

SANTA FE, NEW MEXICO 87501



TELEPHONE 982-1935  
AREA CODE 505

CATHERINE B. McELVAIN  
CATHERINE M. HARVEY  
T. H. McELVAIN, JR.

November 14, 1984

Oil Conservation Division  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

Re: Merrion Oil & Gas Corp.  
Edna #3R  
790 FNL & 790 FWL  
Sec. 7, T-24-N, R-6-W  
Rio Arriba County, New Mexico

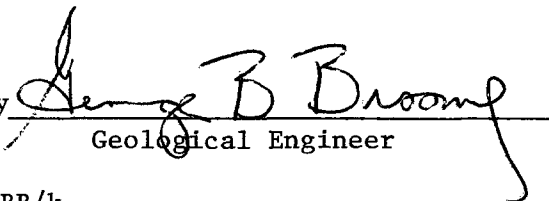
Gentlemen:

Please be advised that T. H. McElvain Oil & Gas Properties, who is an offset owner to the above captioned well, has no objection to the commingling of the Gallup and Mesa Verde formations.

Should anything be necessary in this matter, please advise.

Very truly yours,

T. H. McElvain Oil & Gas Properties

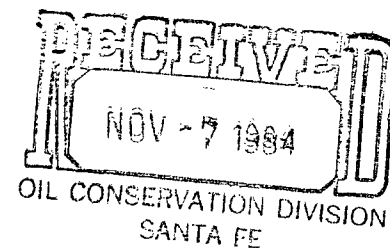
By   
Geological Engineer

GBB/k

cc: Merrion Oil & Gas Corp.

MERRION OIL & GAS CORPORATION

P. O. Box 1017  
FARMINGTON, NEW MEXICO 87499



November 5, 1984

Mr. David Catanach  
New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Re: Edna 3R  
790' FNL and 790' FWL  
Sec. 7, T24N, R6W  
Rio Arriba Co., New Mexico

Dear Mr. Catanach,

Enclosed is a copy of the Completion History and the Well Bore Diagram as per your request. We request approval of down hole commingling production from the Mesaverde and Gallup Formations. The fluids from these formations are compatible.

If you need any further information, please call.

Yours truly,

MERRION OIL & GAS CORPORATION

  
Steve S. Dunn, Operations Manager

SSD/am

Enc.

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 Correlatio Log from PSTD - 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)

8/27/84 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:

4903, 4898, 4886, 4878, 4868, 4859, 4849, 4840, 4810, 4805, 4800, 4787, 4785, 4652, 4648. 4644' KB. Total of 16 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 could not 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 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

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.

9/14/84 Work on flow line to battery.

9/15/84 Work on flow line to battery.

9/16/84 Work on flow line to battery.

9/19/84 Complete flow line to battery.

9/20/84 Start pumping unit.

MERRION OIL & GAS

EDNA NO. 3-R

WELLBORE SCHEMATIC

BY: SSD

DATE: 11/5/84

ELEV. - 6802' G.L.  
6815' KB

LOC: D. SEC 7, T24N, R6W

RIO ARriba, N.M.

12 1/4" HOLE - 8 5/8" 24 1/2' FT @ 224' W 170 SX. (CIRC. TO SURFACE)

TOC 2ND STAGE 600 FT TEMP. SURDEM.

Devils Fork Mesaverde

MESAVERDE PERFS - 4644' - 4903' GROSS INTERVAL

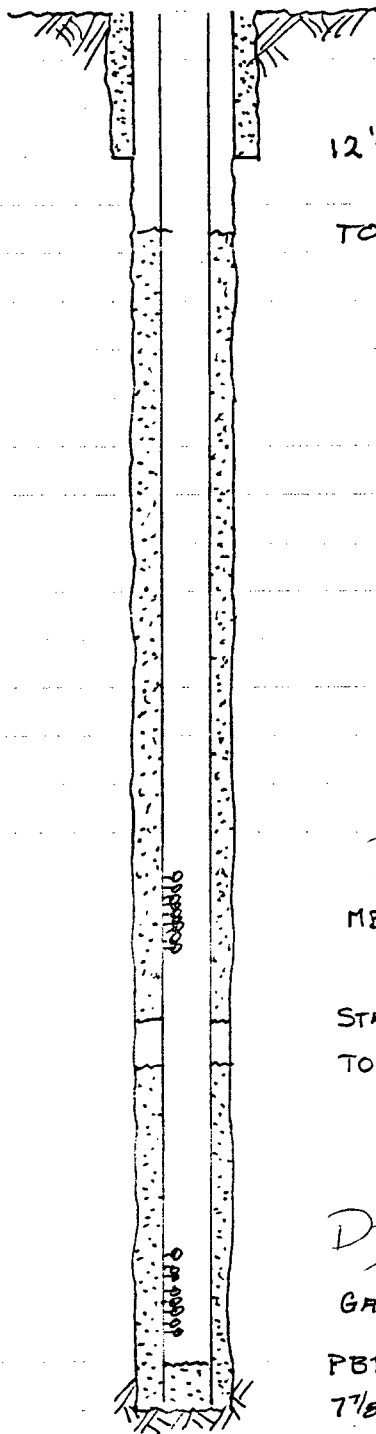
STAGE TOOL @ 4986' - 2ND STAGE - 700 SX 'B' 2 7/8 D-79, 100 SX 'H' 2 7/8 GEL  
TOC CALC 1ST STAGE - 5100'

Devils Fork Gallup

GALLUP PERFS - 5661' - 5887' GROSS INTERVAL

PBTD @ 5980'

7 7/8" HOLE TO 6022' KB. 4 1/2" 10.5 1/2' FT K-55 @ 6022' KB  
1ST STAGE - 225 SX 'H' 2 7/8 GEL





~~(a)~~ Name and address of the operator.

~~(b)~~ Lease name, well number, well location, name of the pools to be commingled.

~~(c)~~ A plat of the area showing the acreage dedicated to the well and the ownership of all offsetting leases.

~~(d)~~ A current (within 30 days) 24-hour productivity test on Division Form C-116 showing the amount of oil, gas, and water produced from each zone.

~~(e)~~ A production decline curve for both zones showing that for a period of at least one year a steady rate of decline has been established for each zone which will permit a reasonable allocation of the commingled production to each zone for statistical purposes. (This requirement may be dispensed with in the case of a newly completed or recently completed well which has little or no production history. However, a complete resume of the well's completion history including description of treating, testing, etc., of each zone, and a prognostication of future production from each zone shall be submitted.)

~~(f)~~ Estimated bottom-hole pressure for each artificially lifted zone. A current (within 30 days) measured bottom-hole pressure for each zone capable of flowing.

~~(g)~~ A description of the fluid characteristics of each zone showing that the fluids will not be incompatible in the well-bore.

~~(h)~~ A computation showing that the value of the commingled production will not be less than the sum of the values of the individual streams.

~~(i)~~ A formula for the allocation of production to each of the commingled zones and a description of the factors or data used in determining such formula.

~~(j)~~ A statement that all offset operators and, in the case of a well on Federal land, the United States Geological Survey, have been notified in writing of the proposed commingled

*Completion  
history  
required*

Remarks.



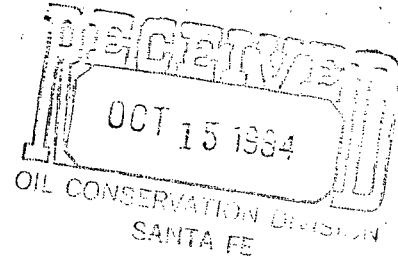
STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6178

OIL CONSERVATION DIVISION  
BOX 2088  
SANTA FE, NEW MEXICO 87501

DATE Oct 10, 1984

RE: Proposed MC \_\_\_\_\_  
Proposed DHC   X   \_\_\_\_\_  
Proposed NSL \_\_\_\_\_  
Proposed SWD \_\_\_\_\_  
Proposed WFX \_\_\_\_\_  
Proposed PMX \_\_\_\_\_



Gentlemen:

I have examined the application dated Oct 5, 1984  
for the Merrion Oil and Gas Corp Edra #3R D-7-24N-6W  
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approve  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Yours truly,

James D. Chavez