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# NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103  
Supersedes Old  
C-102 and C-103  
Effective 1-1-65

5a. 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. <input checked="" type="checkbox"/> OIL WELL <input 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 Rita
3. Address of Operator P. O. Box 1017, Farmington, New Mexico 87401		9. Well No. 1
4. Location of Well UNIT LETTER <u>E</u> <u>1680</u> FEET FROM THE <u>North</u> LINE AND <u>980</u> FEET FROM THE <u>West</u> LINE, SECTION <u>9</u> TOWNSHIP <u>23N</u> RANGE <u>6W</u> NMPM.		10. Field and Pool, or Wildcat <u>Lybrook Gallup</u>
15. Elevation (Show whether DF, RT, GR, etc.) 6863' GL 6876' KB		12. County Rio Arriba

### 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"/>

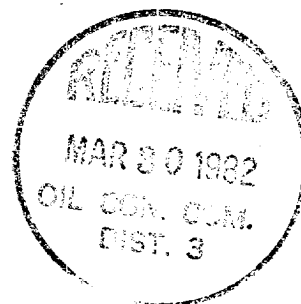
### SUBSEQUENT REPORT OF:

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 JOBS <input type="checkbox"/>	OTHER <input type="checkbox"/>

*Additional* *Keef*  
Completion of additional zone

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.

See Attached.



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 3/29/82

APPROVED BY Original Signed by FRANK T. CHAVEZ TITLE [Signature] DATE MAR 31 1982

CONDITIONS OF APPROVAL, IF ANY:

MERRION OIL & GAS CORPORATION

RITA No. 1

Sec. 9, T23N, R6W

Rio Arriba County, New Mexico

3/21/82 Well made 34 Bbls total fluid overnight. Drained off 25½ Bbls water, made 8-3/4 Bbls oil. Well dead. Ran 2-3/8" tubing and retrieving head to 5000± KB. Rig up to swab. Found fluid @ 3000'. Swab remainder of the day w/well flowing 5 minutes after each run. Casing pressure built to 325 PSIG. Made total of 96½ Bbls. Estimated 24 Bbls water, 72 Bbls oil. Shut in.

3/22/82 Well shut in. Tubing pressure 575 PSIG. Casing 900 PSIG.

3/23/82 575 PSI on tubing. 900 PSI on casing. Opened tubing and well started making fluid in 30 minutes. Flowed 2.5 hours. Well made 74.39 Bbls fluid. 58.02 Bbls water - 16.37 Bbls oil. Well dead. Swabbed well, well would flow 5 minutes after each run. Swabbed 30.31 Bbls total fluid. 22.12 Bbls oil - 7.8 Bbls water. Left well open. SDON.

Tuesday AM: Casing pressure 575 PSI. Tubing open dead. Ran swab, fluid level @ 3600'. Kicked well off 1st run. Made 12 Bbls oil in 20 minutes. Died off.

3/24/82 Well dead. Swabbed one run and kicked off flowing for 20 min. and died. Made 12 Bbls oil. Trip down and found 130 ft. sand fill. Circulated sand out of hole. Released Mod C Bridge Plug and tripped out. Trip in w/production string of 2-3/8" tubing w/sawtooth collar on bottom and seating nipple one joint up. Found no fill. Picked up to 5391' KB. Left 169 joints of 2-3/8" EUE 4.7#/ft J-55 tubing in the hole. Rig up and started swabbing. Swabbed 34 Bbls to frac tank. Shut-in overnight.

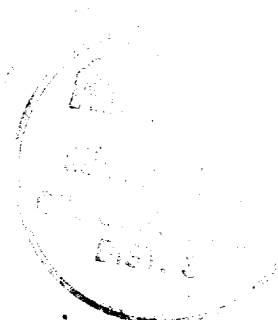
3/25/82 200 PSI on tubing. Casing dead. Fluid level 2000'. Kicked off after 2 swab runs. Made 220 total Bbls fluid. 170 Bbls was used for cleanout. Crained 4 Bbls H<sub>2</sub>O off production tank. Could not get H<sub>2</sub>O to separate in frac tank. Frac tank guages 5'2" (195 Bbls) and 4'3" (150 Bbls). Tubing 50 PSIG. Casing 400 PSIG.

3/26/82 88 Bbls oil. Venting gas. Tubing 50 PSIG. Casing 300 PSIG. 20 PSIG on 1/2" plate - 166 MCF/D.

3/27/82 88 Bbls oil. Venting gas. Est. 160 MCF. Tubing 50 PSIG. Casing 300 PSIG.

3/28/82 65 Bbls oil. Venting gas. Est. 160 MCF. Tubing 50 PSIG. Casing 300 PSIG. Shut in @ 8:00 AM.

3/29/82 Shut-in.



# MERRION OIL & GAS CORPORATION

RITA No. 1

Sec. 9, T23N, R6W

Rio Arriba County, New Mexico

3/13/82

Well open overnight. Made 130.25 Bbls of oil and 3.75 Bbls water - 134 Bbls total fluid, from 5:30 PM on 3/11/82 til 8:00 AM 3/12/82. 14.5 hours. Put flow to production tank and well made 44.8 Bbls in 5 hours. Avg. 8.96 Bbls/hr.

Killed well w/oil and ran sawtooth collar on bottom w/seating nipple 1 joint off bottom to clean out sand. Trip in hole to tag sand @ 5595' KB. 65' of fill per tubing tally. Could not get circulation. Well taking all oil. Pull up above perms. Shut in. SDON.

(CCM)

3/14/82

Tubing pressure 200 PSI. Casing pressure 300 PSI. Open tubing and well made 60 Bbls in 2 hours. Kill well and establish circulation. Clean out sand to 5660' KB PBTD/tubing tally. Pull up to 5391' KB and flange up wellhead. Well came in and made 20 Bbls in 2 hours. Tank guages @ 2:00 PM was 1'6" in each tank. Left well open. SDOWE.

(CCM)

3/16/82

Rig shut-down waiting on weather conditions. Well made 495 Bbls in 48 hours. 10.3 Bbls/hour. 50 PSI tubing pressure. 250 PSI casing pressure. Left open to production tanks. All load recovered. Made 271 Bbls new oil.

3/17/82

60 Bbls oil. 20 hours production. Venting gas. Tubing 50 PSIG. Casing 250 PSIG. Made 1 hour GOR test w/30 PSIG backpressure on separator. Results: 41 BOPD and 165 MCF/D. 331 Bbls new oil. 692 total Bbls in stock tanks.

3/18/82

62 Bbls oil. Venting gas. Est. 200 MCF/D. Tubing 20 PSIG. Casing 300 PSIG.

3/19/82

102 Bbls oil. Venting gas. Tubing 20 PSIG. Casing 300 PSIG.

3/20/82

Rig up Bluejet and perforate upper Gallup @ 5066 - 5075 w/2 PF 3-1/8 casing gun. Total 18 holes. Bluejet ran a dump bailer and spotted 7 gals. 15% Hydrochloric Acid on perms.

Frac upper Gallup w/75 quality foam. 1 gal./1000 Aquaflow. 2% KCL as follows:

250 Gal.	15% HCL
6,000 Gal.	Foam Pad
3,000 Gal.	1/2 #/gal. 20/40 sand
4,800 Gal.	1 #/gal. 20/40 sand
8,000 Gal.	1-1/2 #/gal. 20/40 sand
6,200 Gal.	2 #/gal. 20/40 sand
3,500 Gal.	Foam Flush.

Total sand - 30,700 Lbs. 20/40 sand

Total water - 195 Bbls 2% KCL.

Total N<sub>2</sub> - 537,904 SCF.

Avg. rate - 30 BPM

Avg. Pressure 2900 PSI

ISDP - 2150 PSI.

FSIP - 2100 PSI after 15 min.

Shut in 1.5 hours. Opened to reserve pit through 3/8" choke. Down to 350 PSI on 3/8" choke in 2 hours. Making spray of oil. Put flow to frac tank @ 4:00 PM. 1'7" in frac tank. Left open overnight. SDON.

(CCM)

# MERRION OIL & GAS CORPORATION

RITA No. 1

Sec. 9, T23N, R6W

Rio Arriba County, New Mexico

3/11/82

Rig up Tefteller to run bottom hole pressure. On bottom @ 10:00 A  
3/10/82. Results as follows:

0'	229 PSI		
1000'	441 PSI	Gradient	.212 PSI/ft
2000	799 PSI	Gradient	.358 PSI/ft
3000'	1134 PSI	Gradient	.335 PSI/ft.
4000	1463 PSI	Gradient	.329 PSI/ft.
4925'	1768 PSI	Gradient	.330 PSI/ft.
5125'	1830 PSI	Gradient	.310 PSI/ft.
5325'	1892 PSI	Gradient	.310 PSI/ft.

1946 PSIG @ mid perf - 5500'

Fluid level 445' from surface - oil - no water.

Open tubing to production tank. Gas blew down. No oil. Rig up  
Bayless Rig No. 3 and swabbed the tubing down. Well would gas  
and kick oil for 15 minutes after each swab run. Swabbed back  
15 Bbls. Tubing dry. Total of 3 runs. Unset packer and pulled  
packer and all tubing. SDON.

3/12/82

Rig up Western. Fraced Gallup as follows:  
(W/2% KCL water 1 gal/1000 Aquaflow)

20,000 Gal.	Foam Pad
10,000 Gal.	1/2 #/gal 20/40 sand
15,000 Gal.	1 #/gal 20/40 sand
25,000 Gal.	1-1/2 #/gal 20/40 sand
20,000 Gal.	2 #/gal 20/40 sand
Cut sand drop 18 balls	
6,000 Gal.	Foam Pad
3,000 Gal.	1/2 #/gal 20/40 sand
4,800 Gal.	1 #/gal 20/40 sand
8,000 Gal.	1-1/2 #/gal 20/40 sand.
6,200 Gal.	2 #/gal 20/40 sand
3,512 Gal.	Flush

Total Sand - 128,200 # 20/40

Total Water - 725 Bbls

Total N<sub>2</sub> - 2,209,499 SCF

Avg. Rate - 30 BPM

Avg. Pressure 3050 PSIG

ISDP - 2300 PSIG, down to 2150 in 15 minutes.

3/12/82

Shut well-in for 1 hour. Started flowing back on 1/2" choke.  
Blew down to 600 PSIG and put into frac tank overnight. Left  
flowing.

MERRION OIL & GAS CORPORATION

RITA NO. 1

Sec. 9, T23N, R6W

Rio Arriba County, New Mexico

- 2/21/82 Move in, rig up Bayless 3. Trip in to stage collar @ 4587' KB w/bit and scraper. SDOWE.
- 2/23/82 Pressure test casing to 4000 PSIG. Held okay. Drill out stage tool @ 4587' KB. Clean out to 5677' KB. Pressure test to 4000 PSIG. Held OK. Pick up to 5640' KB. SDON.
- 2/24/82 Waiting on equipment, stuck in mud all day. Rig up Western @ 1:30 PM. Rolled hole w/1000 gal gel plug and loaded w/lease crude. Spotted 250 gals 15% HCL 1 gal/1000 Aquaflo. Trip out w/tubing.
- 2/25/82 Wait on equipment, stuck in mud. Got to location at noon w/equipment. Ran cement bond log from PBTD to top of cement @ 4973'. Ran Gamma Ray Correlation Log from PBTD 5650' to 3500' KB. Perforated w/3-1/8" casing guns in Gallup as follows: 5398 - 5408, 6 holes; 5417 - 5427, 6 holes; 5536 - 5546, 6 holes; 5572 - 5587, 6 holes; 5605 - 5614, 6 holes. Total 30 holes, .340" diameter. SDON.
- 2/26/82 Bayless Rig No. 3. Perf breakdown.
- Ran straddle packers to breakdown perfs. 6 perfs/setting - 5 settings - 30 perf total.
- First setting - 6 holes between 5605 - 5614' KB. Pumped 4.2 Bbls oil @ 4.5 BPM. 2600 PSI. Perfs communicated. ISDP 1000 PSI.
- Second setting - 6 holes between 5572 - 5587' KB. Pumped 4.4 Bbls oil @ 4.4 Bpm. 2500 PSI. Communicated. ISDP 900 PSI.
- Third setting - 6 holes between 5536 - 5546' KB. Pumped 3 Bbls oil. No communication. Pumped 3.5 Bbls 15% HCL acid. Displace w/22.5 Bbls oil. 4.2 BPM @ 2600 PSI. ISDP 1050 PSI.
- Fourth setting - 6 holes between 5417 - 5427' KB. Pumped 1 Bbl oil. Started communicating. Shut down - shut in backside and pump 3.5 Bbl 15% HCL acid and displace w/22 Bbl oil. 4.2 BPM @ 2700 PSI. ISDP 1250 PSI.
- Fifth setting - 6 holes between 5398 - 5408' KB. Pumped 3 Bbls oil. No communication. Pumped 3.5 Bbls acid and displace w/22 Bbls oil. 4.2 Bbl/minute @ 2600 PSI. ISDP 1100 PSI. SDON.
- Total acid pumped away on breakdown 10.5 Bbls.
- Total oil pumped away on breakdown 82 Bbls.
- 2/27/82 Ran 167 joints tubing and set Model R packer @ 5337.75' KB and hung tubing in head and flange up wellhead. Swab 35 Bbls oil to production tank. Started getting acid. Swab 12 Bbls. of acid mixed with oil. Swabbed dry. Shut down and release Bayless Rig 3.
- 2/28/82 - 3/10/82 Shut down for weather conditions.

MERRION OIL & GAS CORPORATION

RITA NO. 1

Sec. 9, T23N, R6W

Rio Arriba County, New Mexico

- 1/27/82 Move in, rig up Young 3. Drilled 253' surface. 12-1/4 hole. Set 223' of 8-5/8" casing w/175 sx cement. WOC. Casing set @ 236' KB.
- 1/28/82 Drilling @ 1907'. Mud wt. 8.9, Vis. 37. Water loss 6.5.
- 1/29/82 Drilling @ 3150. Mud wt 8.9, Vis. 37, Water loss 7.
- 1/30/82 Drilling @ 4400' KB. Mud wt. 9.1, Vis. 34, Water loss 6.8.
- 1/31/82 Drilling @ 4755' KB. Mud wt. 8.8, Vis. 38, Water loss 6.
- 2/01/82 Drilling @ 5235' KB. Mud wt. 8.9, Vis. 36, Water loss 6. Gallup sandstone formation.
- 2/02/82 TD @ 5710' KB @ 5:00 AM. Currently circulating. Mud wt. 8.9, Vis. 100, Water loss 6.
- 2/03/82 Conditioned hole on bottom. Pulled up to 2500'. Raised mud viscosity. Finished tripping out. Rig up loggers. Ran IES and Compensated Density Log. Rig down loggers. Lay down drill pipe. Preparing to run casing.
- 2/04/82 TD 5710

Casing string as follows:

1 Guide Shoe	1.0	top @	5709	KB
1 Shoe Jt. 4.5" 10.5#/ft.	29.25	top @	5675.39	KB
1 Float Collar	1.68	top @	5677.07	KB
7 Jts. 4.5" 11.6#/ft.	288.11	top @	5389.96	KB
19 Jts. 4.5" 10.5 #/ft	801.00	top @	4588.96	KB
1 Stage Tool	1.68	top @	4587.28	KB
110 Jts. 4.5" 10.5 #/ft.	4634.11	top @	5756.83	KB

Total String 5756.83 Total pipe tally 5752.47

TD Geograph 5710' KB

TD Loggers 5732' KB

TD casing tally 5716.78' KB.

1 shoe joint (new) - Nine Star Yard.

7 jts 4.5" 11.6 casing from CLU 311

136 Joints new delivered. Ran 129 jts 4.5 10.5 #/ft.

Benmit 4400 test K81CJ and on same tube Donovan-J-55 U.S.A. API U.F. tested.

Collars: API stencil

Cemented 1st stage w/175 sx Class 'H' 2% gel.

Cemented 2nd stage w/600 sx Class 'B' 2% D-79.

Tail in w/100 sx Class 'H' 2% gel.

Circulated to top.

2/06/82 Start on tank battery.

2/07/82 Set 2 phase vertical separator and work on hookup.

2/10/82 Set two 400 Bbl production tanks and work on hookup.

2/11/82 Work on hookup.