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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 Canyon Largo Unit Com
3. Address of Operator P. O. Box 1017, Farmington, New Mexico 87401		9. Well No. 314
4. Location of Well UNIT LETTER <u>J</u> , <u>1650</u> FEET FROM THE <u>South</u> LINE AND <u>1850</u> FEET FROM THE <u>East</u> LINE, SECTION <u>21</u> TOWNSHIP <u>25N</u> RANGE <u>6W</u> NMPM.		10. Field and Pool, or Wildcat Devils Fork Gallup Ext.
15. Elevation (Show whether DF, RT, GR, etc.) 6322' GL, 6335' KB		12. County Rio Arriba

16.

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐  
TEMPORARILY ABANDON ☐  
PULL OR ALTER CASING ☐  
OTHER ☐

PLUG AND ABANDON ☐  
CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐  
COMMENCE DRILLING OPNS. ☐  
CASING TEST AND CEMENT JOBS ☐  
OTHER Completion ☐

ALTERING CASING ☐  
PLUG AND ABANDONMENT ☐

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 Well History



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

SIGNED [Signature] TITLE President DATE 8/11/82

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

MERRION OIL & GAS CORPORATION

Canyon Largo Unit Com 314  
Section 21, T25N, R6W  
Rio Arriba County, New Mexico

- 6/8/82 Move in, rig up Young Rig 3. Spud @ 4:30 PM. Drilled 215' of 12-1/4" hole. Set 200' of 8-5/8" surface @ 215' KB. Cemented w/170 sx Class B 2% CACL<sub>2</sub>, WOC.
- 6/9/82 TD @ 2303'. Current operation tripping. Mud wt. 9.1, Vis. 36, Water Loss 6. 1 1/4° deviation @ 2303.
- 6/10/82 TD @ 3158. Current operation drilling. Mud wt. 8.9, Vis. 36, Water Loss 6.
- 6/11/82 TD @ 3825'. Current operation drilling. Mud wt. 9, Vis. 35, Water Loss 7.
- 6/12/82 TD @ 4355'. Current Operation: Drilling. Mud wt. 8.9, Vis. 35, Water Loss 7.
- 6/13/82 TD @ 4800. Current Operation: drilling. Mud wt. 8.9, Vis. 38, Water Loss 7.
- 6/14/82 TD @ 5315. Current Operation: drilling. Mud wt. 8.9, Vis. 37, Water Loss 7.
- 6/15/82 TD @ 5740'. Current operation drilling. Mud wt. 9, Vis. 37, Water Loss 6.
- 6/16/82 TD @ 6120' @ 5:15 AM 6/16/82. Mud wt. 8.9, Vis. 90, Water Loss 7.
- 6/17/82 Condition hole for logs. Trip out. Rig up Gearhart Owen. Ran IES Induction, Compensated Neutron-Density Logs. Trip in w/drill pipe, thin mud back for cementing. Trip out, lay down drill pipe. Running 4-1/2" 11.6 #/ft., K-55, R-3 casing.

Casing detail: Ran 146 jts 4-1/2, 11.6 #/ft, K-55, R-3, 8 rd, LT&C, new casing as follows:

ITEM	Length	Depth
Guide shoe (Bakerline)	1 '	6120 ' KB
4.5, 11.6 #/ft csg. shoe joint	42.02'	6077.98' KB
Float Collar (Bakerline)	1.68'	6076.3 ' KB
30 joints 4.5 casing	1263.58'	4811.72' KB
Stage Tool (Bakerline)	1.68'	4810.04' KB
115 joints 4.5 casing	4825.07'	15.03' above KB

Rig up Dowell and cemented 1st Stage w/10 Bbl CW 100 pre-wash, 225 sx Class 'H' 2% Gel, Yield 1.22 ft<sup>3</sup>/sx, Density 15.4 #/gal, Slurry volume 49 Bbls. Good circulation. Plug down @ 9:00 AM. Estimated top of cement @ 5180' KB. Drop bomb, opened stage tool @ 4810' KB. Circulated 3 hours. Cemented 2nd Stage w/10 Bbl CW 100 pre-wash, 600 sx Class B 2% D-79, Yield 2.04 ft<sup>3</sup>/sx, followed by 100 sx Class 'H' 2% Gel, Yield 1.22 ft<sup>3</sup>/sx. Slurry volume 242 Bbls. Good circulation through out job. Bumped plug @ 1:10 PM. Released pressure, tool held. Will run survey to find cement top. Rig down cementers. Land casing as cemented and cut off. Release rig. WOCT.

- 6/18/82 Ran Temperature Survey. Found top of cement @ 1100' KB. Tag stage @ 4805' KB.
- 7/14/82 Tank battery installation in progress.
- 7/15/82 Work on tank battery. Completed installation.

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Rio Arriba County, New Mexico

- 7/30/82 Move in, rig up Bayless Rig 3. Nipple up BOP's. Trip in hole w/2-3/8" 4.7 #/ft, EUE, j-55 Central Steel tubing, 3-7/8" Hughes drill bit, and Baker casing scraper. Tag stage tool @ 4810'. Drill out stage tool and pressure test to 4500 PSIG. Held good. Tubing tongs broke down.
- 7/31/82 Trip to bottom. Clean out to float at 6076' KB. Circulate to clean up. Pressure tested casing to 4500 PSIG. Held good. Pumped 10 Bbl gel plug and circulated hole. Loaded w/2% KCL water w/1 gal/1000 Aquaflow. Spotted 250 gal. 15% HCL @ 6060' KB. Trip out. Rig up Bluejet. Ran Gamma Ray Correlation Log from PBTD to 3800' KB. Perforated 1st Stage Gallup w/3-1/8" casing guns as follows:
- (KB) 5956 - 66' - 6 holes
  - 6001 - 05' - 3 holes
  - 6013 - 19' - 4 holes
  - 6023 - 31' - 5 holes
  - 6038 - 50' - 7 holes
  - Total 25 holes.
- Shut down overnight.
- 8/1/82 Trip in w/Baker Straddle Packers and mechanical collar locator on 2-7/8" tubing. Set packers and broke down perfs as follows:
1. 6038 - 50' KB - Breakdown, 1600 PSI; Pump in, 1400 PSI; ISDP, 800 PSI.
  2. 6023 - 31' KB - Breakdown, 1400 PSI; Pump in, 1200 PSI; ISDP, 700 PSI.
  3. 6013 - 19' KB - Breakdown, 1700 PSI; Pump in, 1150 PSI; ISDP, 700 PSI.
  4. 6001 - 05' KB - Breakdown, 2200 PSI; Pump in, 1300 PSI; ISDP, 700 PSI.
  5. 5956 - 66' KB - Breakdown, 2100 PSI; Pump in, 1650 PSI; ISDP, 1200 PSI.
- Pulled 10 stands and pumped acid away. Shut down over weekend.
- 8/3/82 Drop tubing below perfs and unload hole w/N<sub>2</sub>. Trip out. Rig up Western and foam fraced first stage Gallup w/75% Quality foam, 2% KCL water, 1 gal/1000 Aquaflow as follows:
- |             |                         |
|-------------|-------------------------|
| 30,000 Gal. | Foam Pad                |
| 20,000 Gal. | 1 #/gal. 20/40 sand     |
| 40,000 Gal. | 1-1/2 #/gal. 20/40 sand |
| 20,000 Gal. | 2 #/gal. 20/40 sand     |
- Shut down frac before flush.  
Average rate 30 BPM.  
Average Pressure 3800 PSIG.  
Total Sand 120,000 lbs. 112,318 lbs. in formation.  
Total water 655 Bbls.  
Total N<sub>2</sub> 2,100,000 SCF N<sub>2</sub>.  
No ISDP, blew hole in side of tubing head. Blew well back immediately on 1/2" choke to pit. Opened @ 2:30 PM. Flowed until 5:30 PM, casing pressure 1,500 PSIG. Rig up Bluejet. Unable to run bridge plug, could not get out of lubricator. Opened well back up @ 7:30 PM. Flowed til 10:00 PM, casing pressure 500 PSIG. Put into frac tank overnight.

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CANYON LARGO UNIT COM 314  
Section 21, T25N, R6W  
Rio Arriba County, New Mexico

8/4/82 Well flowing to frac tank overnight through 1/2" choke. Made 145 Bbls. A 90° connection washed out at the tank. Bluejet hand shut well in. No flowing pressures available. Fixed flow-line and opened well to frac tank through 2" line to blow the well down. After 10 minutes well flowing 250 PSI through 2" line. Rig up Bluejet and ran Baker retrievable wireline. Set bridge plug @ 5934' KB. Blow well down and Western pump 40 Bbls water down casing. Well dead. Change out wellhead. Rig up Bluejet to perforate as follows per Induction Electric Log:

9 holes, 5901 - 5917' KB  
7 holes, 5881 - 5894' KB  
4 holes, 5811 - 5819' KB  
3 holes, 5846 - 5850' KB  
Total 23 holes. 2nd Stage Gallup.

Rig down Bluejet - Stewart Buckingham.

Trip in hole w/straddle packers to 5920' KB. Western spot 250 gal. 15% HCL across perfs. Breakdown perfs in 4 settings:

9 holes, 5901 - 5894' KB, pump in @ 2000 PSI, ISIP 1000 PSI  
7 holes, 5881 - 5894' KB, pump in @ 1600 PSI, ISIP 1000 PSI  
4 holes, 5811 - 5819' KB, pump in @ 1500 PSI, ISIP 1000 PSI  
3 holes, 5846 - 5850' KB, pump in @ 1600 PSI, ISIP 1000 PSI

Pull 10 stands tubing and shut down overnight.

8/5/82 Unload hole w/N<sub>2</sub>, trip out w/packers. Rig up Western to frac 2nd Stage Gallup w/75 Quality foam, 2% KCL water, 1 gal/1000 Aqua-flow as follows:

30,000 Gal.	Foam Pad
18,825 Gal.	1 #/gal. 20/40 sand

Well screened out @ maximum pressure 4500 PSIG.

Total sand in formation 15,000 lbs.

ISDP 2850 PSIG.

Average pressure 3800 PSIG, Average rate 30 BPM.

Total Water 285 Bbls. Total N<sub>2</sub> 976,354 SCF.

Flowed well back w/no choke to reserve pit. After 2-1/2 hours well was blown down. Making 200 MCF/Day Nitrogen. No liquid or natural gas. Ran depthometer, found fill 12' below perfs. Put into frac tank overnight.

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CANYON LARGO UNIT COM 314  
Section 21, T25N, R6W  
Rio Arriba County, New Mexico

8/6/82

Well flowing overnight to frac tank. Made 6.5 Bbls. Put orifice tester on well. Making 12 PSIG on 1/2" plate - 129 MCF/Day. Gas flared. Rig up Bluejet and trip in hole and set a Baker wireline set, retrievable bridge @ 5794' KB. Western loaded the hole w/ frac fluid and pressure test to 4500 PSI. Held OK. Bluejet perforate as follows per Induction Log:

11 holes - 5749' - 5759' KB  
5 holes - 5703' - 5711' KB  
2 holes - 5689' and 5691' KB  
2 holes - 5673 and 5675' KB  
2 holes - 5661' and 5663' KB  
2 holes - 5651' and 5653' KB  
Total 24 holes. .43"

Start in the hole w/straddle packers and had to kill the well twice on the way in the hole. Circulate the hole w/frac fluid and spot 250 Gal. 15% HCL across the perfs. Well died off when acid got on spot. Breakdown perfs in 6 settings as follows:

1st setting, 11 holes, 5749' - 5759' KB, broke @ 3200 PSI  
Pump in @ 1500 PSI, ISIP 500 PSI.  
2nd setting, 5 holes, 5703' - 5711' KB, broke @ 3400 PSI  
Pump in @ 2500 PSI, ISDP 600 PSI.  
3rd setting, 2 holes, 5689' - 5691' KB, broke @ 3400 PSI  
Pump in @ 2500 PSI, ISIP 600 PSI.  
4th setting, 2 holes, 5673' - 5675' KB, broke @ 3200 PSI  
Pump in @ 2500 PSI, ISIP 700 PSI.  
5th setting, 2 holes, 5661' - 5663' KB, broke @ 2500 PSI  
Pump in @ 1500 PSI, ISIP 900 PSI.  
  
6th setting, 2 holes, 5651' - 5653' KB, broke @ 2500 PSI  
Pump in @ 1500 PSI, ISIP 1000 PSI.

Lower tubing below perfs and evacuate the hole w/N<sub>2</sub>. Trip out of hole with tubing and packers. Shut well in . Shut down overnight.

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Section 21, T25N, R6W  
Rio Arriba County, New Mexico

8/7/82 Rig up Western. Frac 3rd Stage Gallup as follows: All fluid pumped had 1 gal./1000 Aquaflow.

250 Gal.	15% HCL acid
30,000 Gal.	75% Foam Pad
20,000 Gal.	1#/gal. 20/40 sand
27,090 Gal.	1.5 #/gal. 20/40 sand

Flush w/104,296 SCF N<sub>2</sub>.

Maximum treating pressure 4500 PSI.

Average treating pressure 3300 PSI.

Average rate 30 BPM.

ISIP 3300 PSI.

Final Shut in pressure after 15 minutes 3000 PSI.

Total water pumped 460 Bbls 2% KCL water.

Total sand in formation 61,000 lbs. 20/40 sand.

Shut well in 1.5 hours. Flow back to reserve pit through 1/2" choke. Pressure came down, put flow to frac tank overnight.

8/8/82 Well flowing overnight to frac tank through 1/2" choke after frac yesterday. Flowing 50 PSI through 1/2" choke. Took choke out of the line. Well flowing 10 PSI through 2" line. Well flowing 10 Bbls, 200 MCF. Sample showed 20% oil. Kill well and trip in hole w/tubing and bridge plug retrieving head and circulate gas out of the hole w/oil. Retrieve plug @ 5794' KB. Trip out of hole w/plug and left well open to frac tank overnight through 3/8" choke.

8/9/82 Well made 126 Bbls fluid. Well open overnight Sunday - made 68 Bbls fluid in 24 hours.

8/10/82 Kill well. Trip in hole w/bridge plug retrieving head and circulate gas out of the hole. Clean out 15' of sand and retrieve bridge plug @ 5934' KB. Trip out of hole w/Model 'C' bridge plug. Trip in hole w/saw tooth collar, 2-3/8" tubing. Seating nipple 1 joint off bottom. Clean out 25' of sand to PBTD @ 6076' KB. Reverse circulate the hole clean and pull up and land tubing.

Tuesday AM: Well shut in overnight. Dead this morning. Made 3 swab runs. Well came in strong. Flowing to production tanks. Tank gauges when kicked off 1' each tank. Rig down move off. Total load oil hauled to location 451 Bbls. 239 Bbls recovered. 212 Bbls left to recover.

8/11/82 Ran 5635' of 2-3/8" tubing. Landed @ 5645' KB.