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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. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	7. Unit Agreement Name
2. Name of Operator Merrion Oil & Gas Corporation	8. Farm or Lease Name Salazar G Cam 21
3. Address of Operator P. O. Box 1017, Farmington, New Mexico 87499	9. Well No. 1
4. Location of Well UNIT LETTER <u>G</u> , <u>1650</u> FEET FROM THE <u>North</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
15. Elevation (Show whether DF, RT, GR, etc.) 6309' 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 JOBS <input type="checkbox"/>	OTHER <u>Well History</u> <input checked="" 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.

Enclosed is a copy of the complete 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 11/30/82

APPROVED BY _____ TITLE _____ DATE DEC 1 1982

CONDITIONS OF APPROVAL, IF ANY:

MERRION OIL & GAS CORPORATION

Salazar G Com 21-1

Sec. 21, T25N, R6W

Rio Arriba County, New Mexico

11/20/82 T.I.H. w/Model "R" packer on 2-7/8" buttress thread N-80 tbg. to set packer @ 2344' K.B. Western got to location @ 12:30 PM & started gelling tanks. Started frac @ 4:20 PM. Frac w/maxi-0-74 (gelled oil) w/25#/1,000 aquaseal & 25#/1,000 maxi-0-74 Breaker. As follows: holding 1,000 psi on backside.

6,000 gal.	Gelled oil pad	3900 psi
5,000 gal.	1#/gal. 20/40 sand	3800 psi
5,000 gal.	2#/gal. 20/40 sand	3800 psi
12,096 gal.	3#/gal. 20/40 sand	4300 psi
2,772 gal.	Gelled oil flush	4300 psi

Total sand - 48,210# 20/40 sand
Total oil - 699 bbls. maxi-0-74 oil
Total oil to recover w/oil in csg. 770 bbls.
Avg. treating pressure 4,000 psi
Max. treating pressure 4,300 psi
Avg. rate 19 B.P.M.
I.S.D.P. 1900 psi
5 min. SIP 1400 psi
15 min. SIP 1350 psi
Shut down @ 5:00 PM Shut well in overnight. SDON

11/21/82 Opened well up after frac last evening. Well dead. TOH w/2-7/8" N-80 buttress thread & Model "R" packer. TIH w/bridge plug retrievinghead & seating nipple on 2-3/8" upset tbg. to clean out sand over perfs from 5720' K.B. to 5790' K.B. Pulled up to 5640' K.B. & shut in backside. Started swabbing. Swabbed 97 bbls. & leave tbg. open to prod. tank overnight well still dead.

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11/19/82

Bled pressure off the backside that was left on the well overnight. Tagged bridge plug @ 5824' KB. Pulled up to 5793' KB. Rigged up Western and rolled the hole with 10 Bbl gel plug. Load with lease oil and spot 250 gal. 15% HCL across the perms. Trip out of hole with 2-3/8" tubing, bit and scraper. Rig up Blue jet (Ray Atencio) to perforate per Induction Log as follows: (Top down)

1 hole @ 5655' KB
1 hole @ 5666' KB
1 hole @ 5677' KB
1 hole @ 5692' KB
4 holes - 5708 - 5714' KB
5 holes - 5721 - 5729' KB
7 holes - 5753 - 5765' KB
3 holes - 5776 - 5780' KB

TOTAL 23 holes.

Also checked collars for length of joint that was split. Split joint and joints around it were 42' long. Determined split joint was Central Steel Tube Corp - Domestic. Rig down loggers and trip in hole with straddle tools. Baker Service Tools, Hector DeLeon.

3rd Stage perf breakdown in 8 settings from the bottom up.

1. 3 holes, 5776 - 5780' KB, pumped in @ 1400 PSI. No ISIP. Communicated.
 2. 7 holes 5753 - 5765' KB, pumped in @ 900 PSI. No ISIP. Communicated.
 3. 5 holes, 5721 - 5729' KB, pumped in @ 1500 PSI. ISIP 1000 PSI.
 4. 4 holes, 5708 - 5714' KB, pumped in @ 1500 PSI. No ISIP. Communicated.
 5. 1 hole @ 5692' KB, pumped in @ 2000 PSI. ISIP 1100 PSI.
 6. 1 hole @ 5677' KB, pumped in @ 1800 PSI. No ISIP. Communicated.
 7. 1 hole @ 5666' KB, pumped in @ 2200 PSI. ISIP 1200 PSI.
 8. 1 hole @ 5655' KB, pumped in @ 2400 PSI. ISIP 1700 PSI.
- Trip out of hole with straddle tools and 2-3/8" buting. Shut in. Shut down overnight.

MERJON OIL & GAS CORPORATION

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- 11/13/82 Trip in hole with 2-3/8" tubing and Model R packer to set @ 1925' KB. Rig up Dowell on the tubing and establish an injection rate @ 2 BPM. Started cement and something went wrong with the cement slurry. Could not get it up to weight. Shut down. Release packer and reverse tubing clean. Sent Dowell bulk truck back to town for another 50 sx Class H with 1% CACL. Trip out of hole with tubing and packer. Trip in hole with bit and scraper to make sure all cement was out of the casing. Reverse circulate 60' below the hole and got cement water back. Trip out of hole with bit and scraper. Trip in hole with new packer to set @ 1925' KB and put 500 PSI on backside. Wait on cement truck from town. Cement got to location @ 1:30 PM. Mix and pump 50 sx Class H 1% CACL, yield of 1.05 cu. ft/sk., density 16.5. Wash pump and lines and displace with 8 Bbls water. Shut down. 1000 PSI held 10 minutes. Pump 1/4 Bbl. Pressure up to 2,500 PSI. Shut down 30 minutes. Pressure down to 1000 PSI. Bled pressure off. Got 1/4 Bbl flow back. Unset packer and trip out of hole with tubing and packer. Put 500 PSI on casing and shut down over weekend.
- 11/16/82 Trip in hole with bit, scraper and 2-3/8" tubing. Tagged cement @ 1880' KB 45' above where the packer had been set during squeeze cement job on Friday. Drilled out very hard cement to 2070' KB and cement got soft. Washed and drilled out cement stringers to 2285' KB. Pressure test to 1500 PSI. Bled down to 1400 PSI in 5 minutes. Pressure back up to 1500 PSI and bled off to 1400 PSI in 5 minutes again. Shut down overnight.
- 11/17/82 Had pulled above the hole last evening. This morning, dropped down and tagged cement @ 2252' KB with bit and scraper. Approximately 30' above the squeeze hole. Cleaned out soft cement to 2335' KB and pressure tested with rig pump. Pumped into hole. 1100 PSI @ 1/2 BPM. Called Dowell for cementing trucks. Trip out of hole with 2-3/8" tubing, bit and scraper. Trip in hole open ended to 2312' KB. Dowell, Terry Tecklenburg, rigged up to spot cement. Establish circulation down the tubing. Mix and pump 30 sx Class H cement with 1% CACL and 6% fluid loss additive. Yield 1.18 cu. ft/sk. (35.4 cu. ft.) density 15.6, 6.3 Bbls of slurry. Displace with 7.2 Bbls of water. Shut down. Pull tubing above cement and reverse tubing clean. Shut in the tubing and squeeze down the backside. Displaced 1-1/4 Bbls. Pressure up to 3000 PSI. Shut down. Watch pressure for 30 minutes. Did not bleed off at all. Left 3000 PSI on casing and tubing. Shut down overnight.
- 11/18/82 Trip out of hole with open 2-3/8" tubing. Trip in hole with new 3-7/8" bit, casing scraper and 2-3/8" tubing to tag cement @ 1934' KB. Drilled soft cement out to 2345' KB and fell through. Circulate to clean up and pressure test down casing to 1000 PSI. Held good. Trip in hole 5 more stands. Did not tag anything. Pressure up on casing to 500 PSI. Left overnight. Shut down overnight.

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4500 PSI. Pressure up to 4500 PSI and broke back to 500 PSI in 3 seconds. Try to pressure up again and got 500 PSI @ 3 BPM with Western Co. pressure test. With rig pump, pressure test the same. Trip out of hole with tubing and saw tooth collar. Trip in hole with straddle tools rigged up to set as a single packer and the retrieving head on bottom. Pump down tubing. Pressure held @ 4500 PSI. Pump down backside and pumped in @ 500 PSI, 3 BPM. Pulled above stage tool @ 4930' KB. Pressure test backside. Pumped the same. Pull to 4282' KB. Set and pumped down backside. Pump in the same rate and pressure. Pull up to 3498' KB and pump down the backside. 107 joints in. Pump down backside @ same rate and pressure. Check packers by pumping down tubing. Held 2300 PSI good. Pull to 2847' KB, 87 joints in. Pumped down tubing and got pressure. Pull and set @ 67 joints in, 2192' KB, pump down the tubing @ 500 PSI, 3 BPM. Go back in to 77 joints @ 2521' KB. Pressure test down tubing - held. Pull to 2389' KB, 73 joints in, pump in down backside. Pull to 2324' KB, 71 joints in, pump in down backside. Pull to 2259' KB, 69 joints in, held down backside. Down to 2292' KB, 70 joints in, pump in down backside. Up to 2276' KB, 69½ joints in, pump in down backside. Hole between 2292' and 2276' KB. Pull above the hole and dump 10 gal. frac sand down the tubing. Shut in. Shut down overnight.

11/10/82

Squeeze cementing of hole between 2276' KB and 2292' KB. Trip out of hole with straddle packers set up as one packer after locating hole on 11/8/82. Trip in hole with Model R packer and tubing to set @ 1925' KB. Pressure backside to 500 PSI with rig pump and rig up Dowell, Terry Tecklenburg, to cement down the tubing with 50 sx Class H w/1% CACL. Mixed 1.05 cu. ft/sk with density of 16.4. 9.4 Bbls of slurry. Shut down and wash up lines and pump. Displace 9 Bbls @ 3 BPM, 400 PSI, S.D. Hesitate 10 minutes and pump 1/2 Bbl @ 1/8 BPM, 450 PSI, S.D. Hesitate 10 minutes and pump 1/2 Bbl @ 1/8 BPM, 500 PSI, S.D. Hesitate 20 minutes and pump 1/2 Bbl @ 1/8 BPM, 500 PSI, S.D. Hesitate 30 minutes and pump 1/2 Bbl @ 1/8 BPM, 550 PSI, S.D. Hesitate 30 minutes and pump 1/2 Bbl @ 1/8 BPM, 500 PSI, S.D. Pressure bled down to 300 PSI. Shut in tubing and backside. Shut down overnight.

11/11/82

Shut down all day to let cement harden.

11/12/82

Trip out with tubing and packer. Trip in with 2-3/8" tbg. and bit. Tag cement @ 2168' KB - drill out to 2289. Clean up. Pressure test to 1500 PSI. Got 1400 PSI and broke down. Pump in @ 1 BPM @ 800 PSI. Trip out, run packer to 1925'. Shut down overnight.

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11/7/82

Well open to tank overnight through 3/4" choke. Made 51.6 Bbls fluid in 13 hours. Test well 1 hour. Well made 53 Bbls of fluid. 40% oil, flowing through 2" line @ 30 PSI. Rig up Bluejet and set Baker wireline retrievable bridge plug @ 5962' KB. Pressure test bridge plug with rig pump to 4500 PSI, held good. Perforate as follows per Induction Log.

7 holes, 5859 - 5871' KB

9 holes, 5884 - 5900' KB

4 holes, 5922 - 5928' KB

Total 20 holes.

Trip in hole with straddle tools to 5840' KB and roll hole. Spot 250 gal. 15% HCL acid across perfs and straddle pack as follows:

4 holes, 5922 - 5928' KB, Broke down @ 1400 PSI and went on vacuum, no ISIP.

9 holes, 5884 - 5900' KB, Broke down @ 1100 PSI and went on vacuum, no ISIP.

7 holes, 5859 - 5871' KB, Broke down @ 1600 PSI. Pumped in @ 1400 PSI. ISIP 500 PSI.

Drop below the perfs and unload the hole with N₂. Trip out of hole with tubing and packers.

Frac 2nd stage Gallup with 75 Quality Foam, 2% KCL, 1 Gal/1000 Aquaflow as follows:

15,000 Gal. Foam Pad

20,000 Gal. 1 #/gal. 20/40 sand

11,418 Gal. 1-1/2 #/gal. 20/40 sand.

Screen out, shut down.

Avg. rate 30 BPM.

Avg. pressure - 3900 PSI

Total water 317 Bbls

Total N₂ - 1,069,042 SCF

Total sand - 32,861 lbs in formation.

ISDP - N/A

Shut in 2 hours and started back on 1/2" choke. Blew down and put into tank over weekend.

11/8/82 Made 117 Bbls in 16 hours, well gassing with 50 PSI shown on 1/2" choke left flowing.

11/9/82 Well open overnight. Made 25 Bbls fluid in 24 hours. Took 3/4" choke nipple out of the line and well flowing 30 PSI through 2" line. Made 17 Bbls fluid in 1 hour. Approximately 70% oil and 30% water. Rig up Bluejet and ran and set Baker retrievable bridge plug @ 5818' KB. Had trouble getting setting tool out of the hole but because of sand in the hole, Western Co. pressure test to 4500 PSI held OK. Trip in hole with 1st gun and stacked out on sand 50' above the bridge plug @ 5768' KB. Could not perforate bottom zone. Rig down logger and trip in hole with saw tooth collar and tubing and reverse circulate sand out to bridge plug. Found plug @ 5830' KB. Pull up above plug and pressure test to

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11/4/82 Move in, rig up Bayless Rig No. 3. Pick up 3-7/8" bit and casing scraper, tally 2-3/8" tubing in hole. Tag stage tool @ 4960' KB. Drilled out and pressure tested to 4500 PSIG, OK. Trip in and clean out to 6114' KB. Pressure tested to 4500 PSI, OK. Pulled 10 stands. Shut down overnight.

11/5/82 Lower tubing to PBTD @ 6119' KB and roll the hole with gel plug and fill the hole with frac fluid. Pull up to 6080' KB and spot 250 gal. 15% HCL across the per interval. Trip out of hole with 2-3/8" tubing, bit and scraper. Rig up Bluejet to log Gamma-Ray Correlation log from PBTD to 4400' KB and perforate with casing guns as follows:

2 holes	5987 and 5989' KB
2 holes	5996 and 5998' KB
2 holes	6003 and 6005' KB
5 holes	6019 - 6027' KB
6 holes	6033 - 6043' KB
6 holes	6061 - 6071' KB

Rig down loggers and trip in hole with straddle tools, Ron Mullen, and breakdown perfs with rig pump as follows:

1. 6061 - 71', 6 holes	Breakdown - 1500 PSI Pump in 500 PSI ISDP - Communicated
2. 6033 - 43', 6 holes	Breakdown - 600 PSI Pump in 500 PSI ISDP - Communicated
3. 6019 - 27', 5 holes	Breakdown - 800 PSI Pump in 600 PSI ISDP - Communicated
4. 6003 - 5998', 4 holes	Breakdown - 1700 PSI Pump in 1300 PSI ISDP 700 PSI
5. 5987 - 89', 2 holes	Breakdown - 2200 PSI Pump in 1600 PSI ISDP 700 PSI

Pull 10 stands and shut down overnight.

11/6/82 Drop tubing and packers below the perfs, and Western N₂. Unloaded the hole with N₂. Trip out of hole with tubing and straddle tools. Rig up Western Co. to frac 1st stage Gallup as follows: 2% KCL water with 1 gal. per 1000 Aquaflow, 75 Quality Foam.

30,000 Gal.	Foam Pad
20,000 Gal.	1.0 #/gal. 20/40 sand
67,500 Gal.	1.5 #/gal. 20/40 sand
3,900 Gal.	Foam Flush

Total Water 723 Bbls

Total Sand 121,250 lbs of 20/40 sand

Avg. rate 30 BPM

Maximum PSI during job 4150 PSI

Avg. PSI 4000 PSI, ISIP 3200 PSI. 2,873,000 SCF N₂

Pressure at 4000 PSI w/1-1/2# sand, decided to carry job out @ 1 1/2 # instead of 2# sand.

Shut in 2 hours and flow back to reserve pit through 1/2" choke to get pressure down. Put flow to frac tank overnight

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9/22/82 Move in, rig up Young Rig 2. Spud at 5:00 PM. Set 220' of 8-5/8" surface casing @ 233' KB w/170 sx cement. Current operation drilling. TD 344'. Mud wt. 8.5, Vis. 43, Water Loss 4.
9/23/82 TD 2510'. Current operation drilling. Mud wt. 9.0, Vis. 42, Water loss 7. 3/4° deviation @ 1694'.
9/24/82 TD 3199'. Current operation drilling. Mud wt. 9.0, Fis. 38, Water loss 8.0.
9/25/82 TD 3734'. Current operation drilling. Mud wt. 9.1, Vis. 36, Water Loss 9.
9/26/82 TD 4180'. Current operation drilling. Mud wt. 9.1, Vis. 36, Water Loss 5.
9/27/82 TD 4645'. Current operation drilling. Mud wt. 9.1, Vis. 34, Water Loss 6.
9/28/82 TD 5026'. Current operation drilling. Mud wt. 9, Vis. 33, Water Loss 6. Deviation of 1-1/2° @ 4759'.
9/29/82 TD 5516'. Current operation drilling. Mud wt. 9.1, Vis. 35, Water Loss 5.
9/30/82 TD 5981'. Current operation drilling. Mud wt. 9.1, Vis. 33, Water Loss 6.
10/1/82 TD 6170'. Current operation logging. Mud wt. 9.1, Vis. 200. Water Loss 6.
10/2/82 Dresser ran IES Induction - Compensated Density Log from TD to Surface.
Rig up casing crew and run 6195.11' of 4.5, 11.6, K-55, 10rd, STC, Range 3, Central Steel, casing as follows:

<u>Item</u>	<u>Length</u>	<u>Depth (KB)</u>
Guideshoe	1	6169'
1 jt Shoe joint	40.20'	
Float Collar	1.68'	6128.8'
29 jts. 4.5 casing	1164.77'	
Stage Tool	1.68'	4960.67'
123 jts casing	4990.14'	29.47 above KB

Total of 153 joints = 6195.11' Pipe. Total string length 6199.47'.

Stage 1 - Pump 10 Bbls water ahead. Started mixing water to tub and water foamed up like it had soap in it. Shut down and call to town for anti-foaming agent. Decided to mix some cement to the pit. Water did not foam in cement. Decided to go ahead with job without de-foamer.

Pump 10 Bbls water ahead. Pump 200 sx Class H 2% gel (244 cu. ft.) Yield 1.22 cu. ft./sx. Density 15.5. 43.5 Bbls. Wash lines and pump drop plug and displace with 95 Bbls. Plug held good. Dropped bomb and open stage tool. Circulated 3 hours from plug down.

Stage 2 - Pump 10 Bbls water ahead. Pump 700 sx Class B 2% Econofil, (1442 cu. ft.) yield 2.06 cu. ft./sx. Density 12.5. Mix and pump 100 sx Class H 2% gel (122 cu. ft.) Yield 1.22 cu. ft./sx Density 15.5. Plug held good.

10/3/82 Wilson ran temperature survey. Found PBTD 2 4922' GR. Top of cement 800'.
10/5/82 - 10/9/82 Installation of tank battery. Set 2 - 400 Bbl production tanks from Permian Tank Odessa.