

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil ☒ well ☐ gas well ☐ other
2. NAME OF OPERATOR
Merrion Oil & Gas Corporation
3. ADDRESS OF OPERATOR
P. O. Box 1017, Farmington, New Mexico 87401
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1630' FSL & 1660' FWL
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) Completion ☒

SUBSEQUENT REPORT OF:

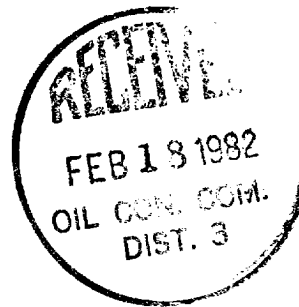
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U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

5. LEASE
SF-080136
6. INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Salazar G 34
9. WELL NO.
1
10. FIELD OR WILDCAT NAME
Devils Fork Gallup
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 34, T25N, R6W
12. COUNTY OR PARISH
Rio Arriba
13. STATE
New Mexico
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)
6387' GL

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

See Attached



Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE Operations Manager DATE 2/10/82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

NMOCC

FARMINGTON DISTRICT

MERRION OIL & GAS CORPORATION

SALAZAR G 34-1

Sec. 34, T25N, R6W

Rio Arriba County, New Mexico

2/6/82 Trip down to bridge plug, found no fill. Trip out w/2-3/8" tubing. Rig up Western Co. Unable to start sand box. Wait on truck out of town. Crank up to frac. Unable to frac. Pressure @ 4000 PSI on pad. Blow well down. Run sinker bar, found PBTD @ 5520'. No fill on plug. SDON.

2/7/82 Unable to start rig. Temperature 29° below zero. Also diesel gelled in frac equipment. Manually rig up perforators. Perforated 2 PF 5505 - 5508' & 5495 - 5500' KB. Total 16 holes. .340". Rig down Bluejet. Thaw out lines and trucks. Bullhead 250 Gals 15% HCL and breakdown. Indicated 11 holes open. 1/2 BPM @ 2000 PSI. ISDP 1500 PSI. Nitrogen truck blew PTO seal. Unable to frac due to time constraints.

2/9/82 Upper zone Gallup frac.

Frac down casing w/9940 gal foam pad.

| | | |
|------------|------------------------|----------|
| 6020 gal. | 1/2 #/gal 20/40 sand | 3350 PSI |
| 6020 gal. | 1 #/gal 20/40 sand | 3300 PSI |
| 7980 gal. | 1-1/2 #/gal 20/40 sand | 3200 PSI |
| 12040 gal. | 2 #/gal 20/40 sand | 3200 PSI |

Flush w/3640 gal. foam.

All fluid pumped contained 1200 SCF/Bbl N₂.

Avg. treating pressure 3250. ISDP 2800.

FSIP after 20 min. 1400 PSI.

Total sand in formation 45080# 20/40 sand

Total H₂O 326 Bbls.

Total N₂ 912,240 SCF.

Shut well in for 1.5 hours. Open well to reserve pit through 2-3/8" steel line w/1/2" positive flow choke. Blow down to 800# PSI. Flow to frac tank overnight through 1/2" choke. SDON.

2/10/82 Well open overnight after frac through 1/2" choke to frac tank. Made 319 Bbls in 16 hours. 19 Bbl/hour. Took 1/2" choke out of line and made 23 more Bbls to frac tank in 1.5 hours. Frac tank full. Swap flow to production tank. Well made 17 Bbls in 1 hour. Kill well w/rig pump and run bridge plug retrieving head on tubing to 5500 KB. Well started trying to come in, reverse circulate w/rig pump to kill well and went on down to catch bridge plug @ 5520' KB. Pull bridge plug and tubing. Shut well in. Made a total of 359 Bbls before we killed well. SDON.

MERRION OIL & GAS CORPORATION

SALAZAR G 34-1

Sec. 34, T25N, R6W

Rio Arriba County, New Mexico

2/1/82 Pulled packers and tubing. Ran different set of straddle packers and new collar locator to breakdown perfs in 4 settings.

1st setting - lower perfs @ 5583', 5584', 5585', 5586' KB. Pumped in @ 1200 PSI. Communicated. ISDP 400 PSI.

2nd setting - main zone perfs @ 5559, 5560, 5561, 5562, 5563, 5564, 5565, 5566, 5567, 5568, 5569' KB. Pumped in @ 1,000 PSI. ISDP 800 PSI.

3rd setting perfs @ 5539, and 5541' KB. Pumped in @ 1800 PSI. Communicated after pumping 4 Bbls fluid. ISDP 600 PSI.

4th setting perfs @ 5530 and 5533' KB. Pumped in @ 1800 PSI. ISDP 800 PSI. No communication. Pulled packers and SDON.

2/2/82 Rig up Western. Foam frac middle Gallup, 5526' to 5585', as per Correlation Log w/1 gal/1000 Aquaflo and 2% KCL as follows:

| | |
|-------------|------------------------|
| 14,000 gal. | Foam Pad |
| 7,000 gal. | 1/2 #/gal 20/40 sand |
| 7,000 gal. | 1 #/gal 20/40 sand |
| 10,000 gal. | 1-1/2 #/gal 20/40 sand |
| 17,476 gal. | 2 w/gal 20/40 sand |

Sanded off abruptly w/58,000# 20/40 sand into formation.

7200 additional sand left in well bore.

Avg. rate 20 BPM

Avg. pressure 3200 PSI.

ISDP 4000 PSI.

10 minutes down to 3800 PSI.

Shut in 1 hour and 45 minutes. Flowing back on 1/2" choke. Blew down to 1100 PSI. Unloaded sand. Pressure up to 1800 PSI behind sand.

Down to 800 PSI. Making oil. Flowing to frac tank. 160 Bbls overnight.

Flowing w/150 PSI on 3/8" choke. Preparing to set bridge plug.

2/4/82 Rig up Blue Jet. Trip in, set Baker wireline set retrievable @ 5520' KB. Perforated 13 select fire holes .340" as follows: 5508, 5507, 5506, 5505, 5500, 5499, 5498, 5497, 5496, 5495, 5488, 5487, 5480. Found sand fill @ 5510' KB. Unable to straddle pack. Trip in w/tubing and saw tooth collar to clean out sand. Circulated out 12 ft. of frac sand. Pick up to 5519' KB. Spotted 250 gal 15% HCL. Trip out. Trip part way in w/straddle packers. SDON.

2/5/82 Trip in w/straddle packers. Unable to locate collars. Tag bridge plug @ 5520' KB. Made 1st setting. Broke down @ 5 BPM, 3200 PSI - indicated 4 holes open. Made 2nd setting - pumping @ 0.6 BPM @ 4000 PSI, no communication observed. Essentially no holes open. Made third setting w/same results as second. Well started unloading thru casing, but pressure bled off slow under packers. Moved packers up hole and found collar. Trip back in - found sand fill across lower holes up to bottom of second set of perfs. Unable to straddle pack lower zone. Pick up to perfs @ 5500 - 5495 - set packers. Broke down @ 3.4 BPM @ 1800 PSIG. ISDP 500 PSIG. Indicates 5 holes open. Set on perfs @ 5488, 5487. Broke down @ 3.8 BPM @ 3200 PSIG. ISDP 500 PSIG. Indicates 2 holes open. Set on perf @ 5480' KB. Would not breakdown. Trip out w/straddle packers. Trip in w/saw tooth. Clean out to bridge plug. Lost 50 Bbls, well gassing. Picked up above perfs. Shut-in overnight.

MERRION OIL & GAS CORPORATION

SALAZAR G34-1

Sec. 34, T25N, R6W

Rio Arriba County, New Mexico

- 12/22/81 Set tanks. Work on hookup.
- 12/30/81 Working on tank battery and hookup.
- 12/31/81 Working on hookup.
- 1/12/82 Finish pit fence and firewall around production tanks. Hookups complete.
- 1/24/82 Rig moved on location. Unable to find anchors - release hydro-test truck. Found anchors later w/metal detector. Rig up and SDOWE.
- 1/27/82 Drill out stage tool @ 4610' KB. Trip to 5790' KB. Clean out to 5800' KB. Pressure tested to 4000#. Held OK. Roll hole w/10 Bbls gel plug. Fill w/2% KCL 1/1000 Aquaflow. Pulled up to 5740' KB. Spot 250 gal. 10% Acetic Acid. Pull tubing w/casing scraper and bit. SDON.
- 1/28/82 Rig up Blue Jet. Ran Gamma Ray Correlation Log from 5800' - 3900' KB. Used select fire gun and perfed 16 holes as per log as follows:
- 5644, 5645, 5647, 5648' KB. Communicated. Pumped in @ 2200 #, ISDP 1700#
- 5685, 5686, 5688, 5689, 5690, 5691' KB. Pumped in @ 2000#, ISDP 1700#.
- 5702, 5704, 5705, 5706, 5707, 5708' KB. Pumped in @ 2000#, ISDP 1700#.
- 1/29/82 Rig up Baker Tools. Ran straddle packer. Pulled 300' tubing. SDON.
- Rig up Western. Unload hole w/nitrogen. Trip out w/tubing and packers. Start foam frac. Shut down at maximum pressure. Flow well back. Noted leak in bell nipple in casing. Loaded hole w/KCL water - broke down. Breakdown indicated 3 holes open. Shut down. Trip in w/tubing and casing scraper. No fill in hole - nothing on perfs. Waited on acid from town. Spotted 250 gal. acetic acid @ 5470' KB. Western broke down thru annulus. 5 holes indicated open. Unable to frac - 7½ Bbls/min. at 3200 PSI. SDON.
- 1/30/82 Spot 250 Gal. 15% HCL @ 5740' KB. Trip out w/tubing. Breakdown w/KCL water. 19.5 BPM @ 2700 PSI indicated 16 holes open. Foam fraced well as follows:
- | | |
|-----------|------------------------|
| 6000 Gal. | Foam Pad |
| 6000 Gal. | 1/2 #/gal 20/40 sand |
| 6000 Gal. | 1 #/gal 20/40 sand |
| 6000 Gal. | 1-1/2 #/gal 20/40 sand |
| 6000 Gal. | 2 #/gal 20/40 sand |
| 3775 Gal. | Foam Flush. |
- Avg. pressure 3400 PSIG. Avg. rate 20 BPM, ISDP 2900 PSIG.
- Final shut-in 2500 PSI in 15 minutes. Shut-in well for 2 hours. Opened up on 1/2" positive flow choke. Blew down to 600 PSI. Then put into frac tank. Left flowing overnight.
- 1/31/82 Rig up Bluejet. Trip in w/Baker Wireline. Set retrievable bridge plug @ 5630' KB. Trip in w/select fire gun and perforated 5530, 5533, 5541, 5583, 5584, 5585, 5586, 7 holes, 1340". Show an increase in gas glow indicating fluid flow from perfs. Blow well down and trip out. Rig up casing gun and trip in. Misfire, low order detonation on lower portion of the gun. Trip out. Make two select fire gun runs. Shot 12 holes as follows: 5539, 5559, 5560, 5561, 5562, 5563, 5564, 5565, 5566, 5567, 5568, 5569, .340" holes. Rig down Bluejet. Trip in w/Baker straddle packers and collar locator. Load hole w/frac fluid, spot 250 gal., 15% HCL @ 5620' KB. Straddle pack 4 holes, 5583, 5584, 5585, 5586. Communicated @ 2000 PSI. Unable to get collar locator to work. Tag bridge plug and measured first setting. Communicated, move packers into blank pipe, still communicated. Pull packers above perfs and SDOWE.

MERRION OIL & GAS CORPORATION

SALAZAR G No. 34-1
SECTION 34, T25N, R6W
Rio Arriba County, New Mexico

- 11/15/81 Move in, Rig up Bayless Rig No. 5. Spud 12-1/4" hole to 200 ft. Ran 3 jts. 8-5/8" 23 #/ft. K-55 Surface and 2 jts. 8-5/8" 23 #/ft XR+2 Surface. Total 186', set @ 200 ft. w/170 sx Class 'B' 2% CACL₂. WOCT.
- 11/16/81 Circulating @ 1565. Mud wt. 8.9, Vis. 36, Water Loss 6.4.
- 11/17/81 Drilling @ 2750. Mud wt. 8.9, Vis. 36, Water Loss 6.8.
- 11/18/81 Drilling @ 3522. Mud wt. 9.0, Vis 36, Water loss 6.8.
- 11/19/81 Drilling @ 4162. Mud wt. 9.0, Vis. 36, Water Loss 6.0.
- 11/20/81 Drilling @ 4757. Mud wt. 9.1, Vis. 36, Water Loss 6.4.
- 11/21/81 Drilling @ 5114.
- 11/22/81 Drilling @ 5750.
- 11/23/81 TD @ 5850' KB. Circulated hole and short tripped. Lay down drill pipe. Ran 143 jts. of 4-1/2" 10.5 #/ft. ST&C K-55 R-3 casing as follows:

| | Length | Depth |
|---------------------------------|-----------------|----------------|
| 1 4.5/10.5 jt csg. shoejoint | 41.30' | 5850 KB |
| Float collar | 1.68' | 5808.7 KB |
| 29 Jts. 4.5/10/5 casing | 1196.87' | 4611.83 KB |
| Stage Tool | 1.68' | 4610.15 KB |
| <u>113 Jts. 4.5/10.5 casing</u> | <u>4648.46'</u> | 39.99 Above KB |
| 143 Jts. 4.5/10/5 casing | 5889.99" | |

After cementing jt. #143 was layed down leaving 142 jts. of 4.5/10.5 casing in hole = 5886.63'.

Rig up Dowell and cemented first stage. Pumped 10 Bbls. water ahead. Mix and pump 38 Bbls of 15.4# cement. Shut down-wash up lines. Baker drop plug and displace w/17 Bbls water and 76 Bbls mud. Bump plug to 1600 PSI and bleed off pressure and plug held good. Dropped stage tool opening bomb. Wait 25 minutes and pumped 1/2 Bbl to open stage collar. Circulated 4 hours. Cement volume 1st stage = 175 sx Class 'H' 2% Gel.

Cement 2nd stage w/600 sx 2.06 yield Class 'B' 2% D-79 chemical extender. 220 Bbls @ 12.5#. Tail in w/100 sx 1.22 yield Class 'B' 2% D-20 Bentonite 22 Bbls/15.4#.

Pumped 15 Bbls water ahead. Mix and pump 220 Bbls of 12.5# cement. Mix and pump 22 Bbls 15.4# 2% gel Class 'B'. Displace w/74 Bbls water. Bumped plug @ 2700 PSI. Bleed back and held fine. RDMO.