

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form Approved.  
Budget Bureau No. 42-R1424

**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 ☒ gas ☐ other ☐  
well well

2. NAME OF OPERATOR

Merrion Oil & Gas Corporation

3. ADDRESS OF OPERATOR

P. O. Box 840, Farmington, New Mexico 87499

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 990' FNL and 1650' 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\* ☐ Repair casing (other)

SUBSEQUENT REPORT OF:

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RECEIVED

JUL 25 1985

BUREAU OF LAND MANAGEMENT  
FARMINGTON RESOURCE AREA

5. LEASE Cont. 430
6. IF INDIAN, ALLOTTED OR TRIBE NAME Jicarilla
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME Jicarilla 430
9. WELL NO. 6
10. FIELD OR WILDCAT NAME Undes. Gallup
11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA Sec. 36, T23N, R5W
12. COUNTY OR PARISH Sandoval Co.
13. STATE New Mexico
14. API NO.
15. ELEVATIONS (SHOW OF, KDB, AND WD) 6810' GL

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.)\*

As per attached.

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JUL 29 1985

OIL CON. DIV.  
DIST.

Subsurface Safety Valve: Manu. and Type

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

SIGNED [Signature] TITLE Operations Manager DATE 7/25/85

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED FOR RECORD

JUL 29 1985

\*See Instructions on Reverse Side

FARMINGTON RESOURCE AREA

BY [Signature]

6/14/85 Flowed 170 bbls overnight making oil. Still slug-  
ging and gassing. One-hour test - made 7 bbls oil. Killed  
well and tripped in hole to check sand fill. Tagged sand at  
4514' KB - 105' sand fill. Reverse circulated sand out and  
caught bridge plug at 4619' KB. Unset plug and moved up hole  
to 3980' KB. Pressure tested plug to 2500 psi. Held. Trip-  
ped out of hole. Shut down overnight. (RD)

6/15/85 Pressure tested bridge plug to 4000 psi. Held.  
Rigged up Petro and shot two squeeze holes at 3910' KB.  
Tripped in hole with Model A tension packer. Set packer at  
3698' KB. Opened Bradenhead and tried to establish  
circulation. Pumped 2-1/2 bbls and pressure came up to 800  
psi. Kept pumping at 2 bbls per minute and pressure leveled  
off at 1000 psi. Pumped 26 bbls and did not see circulation  
but felt some hot air coming out of line. Started pumping  
again & broke circulation with 42 bbls pumped in. Pumped 5  
more bbls with full circulation. Had to wait on cement from  
town 4-1/2 hours. Rigged up Dowell and put 500 psi on  
casing. Tried to establish circulation. Pumped total of 50  
bbls and did not get circulation.

Three bbls per minute at 1500 psi

Five bbls per minute at 3000 psi

Bled pressure off and pumped three times. Shut down over-  
night. (RD)

6/16/85 Unset packer and rigged up Dowell to circulate hole.  
Circulated and pumped 6 bbls of 7-1/2% HCL. Set packer at  
3698' KB and pressured up backside to 500 psi. Started  
flushing acid at 1/4 bbl per minute, pressure 500 psi. Shut  
down for 2 minutes with 1 bbl acid out perfs. Pumped 3 bbls  
acid out perfs at 1/2 bbl per minute. Shut down 5 minutes  
and then pumped remaining 2 bbls acid out perfs at 1/2 bbl  
per minute, pressure 500 psi. Increased rate to 1 bbl per  
minute. Pressured up to 800 psi. Thirteen bbls pumped.  
Increased rate to two bbls per minute and pressure came up to  
1150 psi. Ten bbls pumped at 2 bbls per minute. Did not get  
circulation. Bled pressure off. Put 1000 psi on backside  
and prepared to squeeze. Mixed and pumped 50 sx Class H with  
1% CaCl<sub>2</sub>, yield 1.22 cu. ft./sk., density 15.6#/gal. Shut  
down and washed pump & lines. Started displacing at 1 bbl  
per minute with 7 bbls displaced. Slowed rate to 1/2 bbl per  
minute. Shut down with 15-1/4 bbls displaced.

Wait 5 minutes & pump 1/4 bbl 500 psi

Wait 5 minutes & pump 1/4 bbl 500 psi

Wait 10 minutes & pump 1/4 bbl 500 psi

Wait 15 minutes & pump 1/4 bbl 500 psi

Wait 10 minutes & pump 1/4 bbl 700 psi - Shut down. Held  
at 600 psi.

Wait 10 minutes & pump 1/4 bbl 1,000 psi - Shut down. Held  
at 1000 psi.

Cement set up. Left 3/4 bbl cement in casing. Left  
packer set & shutdown overnight. (RD)

6/18/85 Unset packer and tripped out of hole. Pressure tested to 1000 psi. Held. Rigged up Petro wireline and ran cement bond log. Tagged cement at 3786' KB - 124' cement in pipe. Ran bond log from 3786' KB to 2992' KB. Log did not show any bond or cement. Pulled up to 1500' KB and logged to 900' KB. Appeared to be bridge from 988' KB to 996' KB. Pulled out of hole and pressure tested to 4000 psi. Held. Ran in with gun and perforated two squeeze holes at 3782' KB - .5" diameter. Rigged down wireline. Tripped in hole with Model A tension packer. Set packer at 3571' KB. Put 1000 psi on backside. Started pumping to get circulation

1 bbl/minute at 800 psi - 43 bbls pumped  
3 bbls/minute at 1500 psi - 5 bbls pumped  
4 bbls/minute at 2220 psi - 2-1/2 bbls pumped

Total water pumped - 50-1/2 bbls. Did not get any circulation. Unset packer and tripped out of hole. Rigged up Petro and perforated two squeeze holes at 3600' KB. Shut down overnight. (RD)

6/19/85 Tripped in hole with Baker cement retainer on 2-3/8" tubing. Circulated around retainer & set at 3770' KB. Established circulation through perfs at 3782' KB, behind pipe to 3600' KB at 200 psi, 1-1/2 bbls/minute. Pumped 3 bbls water. Mixed & pumped 130 sx Class H 1% CaCl<sub>2</sub>. Lost all circulation with one bbl left to mix. Did not recover circulation during displacement. Pressure at 700 psi, one bbl/minute. Cut displacement one bbl short. Pulled out of retainer, pulled tubing to 3350' KB and reversed tubing clean. Circulated out 9 bbls drilling mud. Ran back in below top holes at 3602' KB and reversed out 2 bbls very thin cement. Tripped out of hole with tubing & stinger. Tripped in with tubing & tension packer to 3410' KB. Reversed tubing again and waited on cement to set 4 hrs. Set packer, put 1000 psi on casing and tried to circulate to surface with no luck. Broke down at 1700 psi. Pumping in at 1-1/2 bbl/minute at 1300 psi. Mixed & pumped 20 sx Class H cement, 1% CaCl<sub>2</sub>, & displaced. Displaced 1-1/2 bbls below packer. Pressure building from 700 psi to 1000 psi. Shut down to squeeze in stages.

Staged Cement	Pumped 1/8 bbl from 500 psi - 1000 psi
Waited 5 minutes	Pumped 1/16 bbl from 500 psi - 1000 psi
Waited 5 minutes	Pumped 1/16 bbl from 600 psi - 1000 psi

Holding at 1000 psi. Watched pressure 20 minutes. Tubing at 950 psi. Shut well in with 950 psi on tubing and 1000 psi on casing. Left 1.25 bbls cement in casing. Shut down overnight. (CCM)

6/20/85 Unset packer & tripped out. Pressure tested to 2500 psi. Held. Rigged up Petro & perforated two squeeze holes @ 2250' KB. Rigged up Dowell & tried to circulate.

15 bbls at 1 bbl/ min	650 psi
15 bbls at 2 bbls/min	1000 psi
10 bbls at 3 bbls/min	1250 psi

Did not get circulation. Shut down, pressured down to 500 psi. Perforated two squeeze holes at 1600' KB. Tripped in with retainer. Set retainer at 2225' KB. Pumped 3 bbls & got circulation. Mixed & pumped 140 sx Class B with 2% extender. Yield 2.06 cu. ft./sk. Density 12.6#/gal. Lost circulation with 32 bbls cement pumped. Mixed & pumped 50 sx Class H with 1% Calcium Chloride. Yield 1.18 cu. ft./sk. Density 15.6#/gal. Shut down, washed pump & lines. Pumped 1 bbl down backside at 500 psi to see if perfs were open. Shut down. Filled lines with cement & tried to pump down tubing. Pressure came up to 1500 psi. Could not move cement. Shut down & stung out of retainer, reversed tubing clean. Pulled tubing to 1615' KB & reversed tubing clean. Mixed & pumped 55 sx Class H with 1% CaCl<sub>2</sub>. Yield 1.18 cu. ft./sk. Density 15.6#/gal. Displaced 3-1/2 bbls. Tripped out. Displaced 8 bbls & shut down 10 minutes. Started hesitation squeeze.

Pumped 1/2 bbl - 900 psi.	Shut down 10 min. - 400 psi
Pumped 1/2 bbl - 900 psi.	Shut down 10 min. - 600 psi
Pumped 1/2 bbl - 900 psi.	Shut down 15 min. - 700 psi
Pumped 1/2 bbl - 1000 psi.	Shut down 20 min. - 900 psi
Pumped 1/2 bbl - 1000 psi.	Shut down. Holding 1000 psi.

Shut well in with 1000 psi overnight. (RD)

6/21/85 Tripped in hole with 3-7/8" bit & 4-1/2" casing scraper on 2-3/8" tubing. Tagged cement at 1480' KB - 120' cement. Drilled out & pressure tested to 2000 psi. Held. Tagged retainer at 2225' KB. Drilled out retainer and 30' cement below retainer. Pressure tested. Broke at 1300 psi. Could pump one bbl/minute at 1300 psi. Bled down to 800 psi in one minute. Holes at 2250' KB not holding. Tripped out. Tripped in to 2252' KB open ended. Shut down overnight. (RD)

6/22/1985 Rigged up Dowell to squeeze hole at 2250' KB. Established rate at 1/2 bbl/minute at 1200 psi. Mixed & pumped 50 sx Class H with 1% CaCl<sub>2</sub> and 6/10% Fluid Loss Additive. Displaced with 5-1/2 bbls water. Shut down & tripped out of hole. Displaced 6 bbl. Shut down & started hesitation squeeze.

6/22/1985 (Continued)

WAITED	PUMPED	PRESSURED TO	HELD AT
10 minutes	1/2 bbl	400 psi	100 psi
15 minutes	1/4 bbl	500 psi	100 psi
20 minutes	1/4 bbl	500 psi	200 psi
20 minutes	1/4 bbl	500 psi	200 psi
20 minutes	1/4 bbl	500 psi	300 psi
30 minutes	1/4 bbl	500 psi	300 psi
45 minutes	1/8 bbl	500 psi	400 psi
5 minutes	1/8 bbl	500 psi	400 psi
15 minutes	1/8 bbl	1000 psi	650 psi
10 minutes	1/8 bbl	1000 psi	800 psi

Shut casing in overnight. (RD)  
6/23/85 Tripped in hole with 3-7/8" bit, 4-1/2" casing scraper. Tagged cement at 2120' KB. Drilled out cement to 2250' KB. Cement fairly soft. Pressure tested. Broke down at 1400 psi. Bled down to 800 psi in one minute. Held at 800 psi. Called Dowell to squeeze. Tripped out of hole. Tripped in with Model A tension packer. Set packer at 2380' KB and pressure tested below holes at 2250' KB to 2000 psi. Held. Pulled packer to 2030' KB. Set packer and put 1000 psi on backside. Established rate of one bbl/minute at 1700 psi. Mixed & pumped 25 sx Class H with 2% CaCl<sub>2</sub> and 6/10% of Fluid Loss Additive. Yield 1.18 cu. ft./sk. Density 15.6#/gal. Shut down, washed up pump & lines. Displaced 8-3/4 bbls with water & shut down. Started staging squeeze.

WAITED	PUMPED	PRESSURED TO	HELD AT
15 minutes	1/4 bbl	1000 psi	750 psi
20 minutes	1/4 bbl	1100 psi	750 psi
20 minutes	1/4 bbl	1100 psi	800 psi
25 minutes	1/2 bbl	1200 psi	800 psi
20 minutes	1/2 bbl	1500 psi	1500 psi

Bled pressure down to 1200 psi and shut well in overnight. (RD)

6/25/85 Unset Model A tension packer and tripped out of hole. Tripped in hole with 3-7/8" bit, 4-1/2" casing scraper and 2-3/8" tubing. Tagged cement at 2175' KB. Drilled out cement to below hole at 2250' KB. Pressure tested to 1500 psi - held. Tagged cement at 3520' KB - 80' cement. Fell out of cement at 3600' KB. Pressure tested to 1500 psi - held. Tagged cement at 3740' KB. Drilled down to retainer at 3770' KB. Drilled on retainer three hours. Shut down overnight. (RD)

6/26/85 Resumed drilling on retainer at 3770' KB. Drilled out retainer and drilled out cement to 3790' KB. Pressure tested holes at 3782' KB to 1500 psi. Held. Tagged sand at 3955' KB. Circulated and loaded hole with clean water. Tripped out of hole. Tripped in with retrieving head to 3940' KB. Shut down overnight. (RD)

6/27/85 Cleaned out 20' sand on bridge plug. Caught bridge plug at 3770' KB. Unset bridge plug & tripped out of hole. Tripped in with pumping string. Tagged sand at 6105' KB. 31' of rat hole below Semilla perfs. Landed pumping string with 173 joints 2-3/8" tubing - 5580.64' threads off.

One seat nipple at 5591' KB  
One 4' perforated sub  
One 22' mud anchor

Bottom of tubing at 5618' KB. Ran pump & rods as follows:

Pump 2" X 1-1/2" X 16  
Forty 3/4" plain rods  
Sixty-three 5/8" plain rods  
Forty 5/8" scraped  
Seventy-nine 3/4" scraped  
One 8' pony  
One 6' pony

Seated pump, spaced out. Rigged down & moved to Canyon Largo Unit 363. (RD)