

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
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 790' FNL and 1810' FEL
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:

RECEIVED
JUL 19 1982
U.S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

5. LEASE
NOO-C-5008

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Warito ~~CO~~

9. WELL NO.
1

10. FIELD OR WILDCAT NAME
Basin *Dakota*

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 7, T25N, R8W

12. COUNTY OR PARISH | 13. STATE
San Juan | New Mexico

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
6341' G.L.

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 7/13/82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE RECEIVED FOR RECORD

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

NMOCC

JUL 21 1982
FARMINGTON DISTRICT
BY Sam

MERIDON OIL & GAS CORPORATION

WARITO ~~CO~~ NO. 1

Sec. 7, T25N, R8W

San Juan County, New Mexico

- 7/8/82 Casing pressure 50 PSI. 87 Bbls total fluid overnight. Morning sample showed 45% oil. Well flowing this morning 100 PSI through 1/2" choke. 50 PSI through 2" tubing. Flowing well to get pressure down to run sandline depthometer. Depthometer showed sand fill @ 5470' KB. Bottom 6 perfs covered. Put flow through separator to get 1 hour test on gas, oil and water rate. 3 Bbls fluid (50% oil, 50% water), 147 MCF. Kill the well and was going to trip in hole to retrieve bridge plug. Wait on Baker Service to haul out new retrieving head. Got new retrieving head and had to kill the well again. Trip in hole w/retrieving head and tubing. Reversed out 85' of sand and retrieved plug @ 5555' KB. Reverse circulate w/water to clean up and trip out of hole w/tubing and Baker Model C bridge plug. Shut in overnight. Shut down overnight.
- 7/9/82 Trip in hole w/sawtooth collar. Seating nipple 1 joint off bottom. Clean out 40' of fill on top of retainer @ 6345' KB per tubing tally. Reverse circulate to clean up on bottom and pull up to 6159' KB and button up wellhead. Swab total of 150 Bbls fluid and well kicked off flowing @ 6:00 PM. Well made 250 Bbls fluid overnight in 14 hours. Well gassing slightly @ 8:00 AM. Fluid level @ 3,000' KB. Made 2 swab runs and kicked off flowing. Making 80% oil, 20% water and heavy gas. Rig down, move off.
- 7/10/82 Well made 250 Bbls fluid overnight. Gassing slightly this AM. Casing pressure 500 PSI. Made 2 swab runs and well started flowing. Sample showed 80% oil, 20% water. Casing pressure up to 550 PSI. Rig down, move off Bayless Rig 3. Tubing on Warito hung off @ 6159' KB. 190 jts of tubing w/saw-tooth collar on bottom. Seating nipple 1 joint off bottom.
-

MERRION OIL & GAS CORPORATION

WARITO COM NO. 1

Sec. 7, T25N, R8W

San Juan County, New Mexico

7/6/82

Trip in hole w/straddle packers and collar locator to acidize 3rd stage Gallup perfs. Went down to tag bridge plug and did not tag where it was set @ 5551' KB. Dropped down to 5585' KB and still did not tag plug. Reverse circulate the hole to circulate the gas out of the hole. Pull up and start straddle packing w/Western Co. 1st set perfs @ 5489 - 5503' KB, 6 holes. Pump 2 Bbls acid into the tubing. Set packers and displace acid @ 4.7 BPM. 3800 PSI. Communicated to upper perfs @ the end of flush. No ISIP. Pull up test packers in blank pipe, held good. 2nd setting perfs @ 5442 - 5448' KB, 4 holes. Pump acid away @ 3200 PSI, 5.7 BPM. No ISIP. Communicated to upper perfs. Shut in backside and displace acid. ISIP 1300 PSI. 3rd set perfs @ 5402 - 5428' KB, 14 holes. Pumping water in @ 3500 PSI, 7 BPM. Acid on pump in @ 3100 PSI, 7.1 BPM. ISIP 1000 PSI. Trip out of hole w/straddle packers. Trip in hole w/bridge plug retrieving head and retrieve loose Model C bridge plug @ 5900' KB. Trip out of hole w/bridge plug and tubing. Trip in hole w/new Model C retrievable bridge plug and retrievomatic packer. Set bridge plug W 5551' KB per tubing tally and set packer @ 5518' KB. Pressure test bridge plug. Did not hold. Re-set bridge plug and pressure test. Did not hold any pressure. Shut down over holiday weekend. (Perf depths per Correlation Log.) (CCM)

7/7/82

800 PSI tubing. 800 PSI casing. Catch Model C bridge plug and reset @ 5555' KB per tubing tally. Pull off bridge plug and set packer @ 5545' KB and pressure test to 4500 PSI. Held good. Western nitrogen evacuate the hole. Trip out of hole w/tubing and rig up Western to frac. Fraced 3rd stage Gallup w/75 quality foam, 2% KCL water, 1 gal/1000 Aquaflo as follows:

5,000 Gal.	Foam Pad
5,000 Gal.	1/2 #/gal. 20/40 sand 2,500 lbs.
5,000 Gal.	1 #/gal. 20/40 sand 5,000 lbs.
24,150 Gal.	1-1/2 #/gal. 20/40 sand 36,225 lbs.

Total Sand 43,725 lbs.

In formation 38,325 lbs.

Avg. pressure 4300 PSIG.

Avg. Rate 30 BPM.

No ISDP.

Total load 286 Bbls water.

Shut-in 2 hours. Flow back on 1/2" choke.

Put into frac tank overnight.

MERRION OIL & GAS CORPORATION

WARITO COM NO. 1

Sec. 7, T25N, R8W

San Juan County, New Mexico

7/1/82 con't. in @ 2700 PSI @ 3.0 BPM. Brought the rate up to 5.5 BPM, 3000 PSI. Acid hit, pressure dropped to 2300 PSI @ 5.5 BPM. ISIP 1200 PSI. 4th set - 5 holes between 5630 and 5641' KB. Spot 2.5 Bbls acid in the tubing. Set packers and pump acid away. Broke @ 3200 PSI, 7.0 BPM. When acid hit, pressure broke back to 2700 PSI @ 7.3 BPM. ISIP 1200. Established ISIP and started getting communication behind pipe to upper set of perfs. 5th set - 12 holes from 5592 - 5614' KB. Set packers and pump 6 Bbls acid. Pumped in @ 3300 PSI @ 7.0 BPM. Broke back to 3200 PSI @ 7.2 BPM. When acid hit, pressure broke to 2300 PSI @ 7.5 BPM. ISIP 1200 PSI, communication. Pull packers into blank pipe and pressure tested OK @ 4500 PSIG. Drop below perfs and unload hole w/N₂. Trip out. Rig up to frac. Fraced 2nd stage Gallup as follows: 75 Quality foam, 2% KCL, 1 gal/1000 Aquaflow.

14,000 Gal.	Pad
5,000 Gal.	1/2 #/gal. 20/40 sand
5,000 Gal.	1 #/gal. 20/40 sand
5,000 Gal.	1-1/2 #/gal. 20/40 sand
35,910 Gal.	2 #/gal. 20/40 sand

Screened out in wellbore. ISDP 4500 PSIG.

Avg. rate 30 BPM

Avg. pressure 3800 PSIG

Total sand 85,560 lbs 20/40. Total in formation 77,832 lbs.

Shut in 2 hours. Opened on 1/2" choke to blooey pit.

Put into frac tank overnight.

7/2/82 Well made 46 Bbls fluid to frac tank overnight. 8:00 AM - well gassing slightly, making a mist of oil and water. Ran sinker bars and depthometer to tag sand @ 5750' KB. 2 perforations @ 5769 and 5771' KB recovered. Well started blowing more during depthometer run making approximately 50% oil w/water and gas. Trip in hole w/bridge plug retrievable head. Circulate 65' of sand out to bridge plug @ 5815' KB. Catch plug and pull up and set Model C retrievable bridge plug @ 5551' KB. Pressure test plug and casing to 4500 PSI. Held good. Trip out of hole w/ tubing and retrievable head. Rig up Blue jet to perf 3 stage Gallup as follows:

14 holes -	5402 - 5428' KB
4 holes -	5442 - 5448' KB
4 holes -	5489 - 5495' KB
2 holes -	5501 - 5503' KB

MERRION OIL & GAS CORPORATION

WARITO COM NO. 1
Sec. 7, T25N, R8W
San Juan County, New Mexico

6/27/82 Well dead, fluid level @ surface. Swab back 40 Bbls including spent acid. Trip out w/packer. Rig up Western, frac Gallup w/slickwater 2% KCL, 1 gal/1000 Aquaflo as follows:

7500 Gal.	Pad
5000 Gal.	1/2 #/gal. 20/40 sand
5712 Gal.	1 #/gal. 20/40 sand
Screened out.	

Flow back est. 120 Bbls. Pump back in 3570 gals. pad and sanded off. Flow back. Trip in w/tubing, clean out to bridge plug. SDOWE.

6/29/82 Well dead. Fluid level at the surface. Swab 3 hours. Fluid level down to 4,500' KB. Swabbed approximately 90 Bbls of water. Western reverse circulated w/gelled oil to load the hole. Tubing set @ 5980' KB. Trip out of hole w/tubing and rig up Western Co. to frac lower Gallup w/gelled oil. Started frac @ 4 BPM, 4500 PSIG. Unable to frac due to pressure constraints. ISDP 3900 PSIG bled to 1800 PSIG in 10 minutes. Estimate 1 perf open. Trip in hole w/Model R packer and tail pipe. Packer set @ 5844' KB. Tail pipe to 5945' KB. Pump 250 gal. 15% HCL acid into the perfs @ 4900 PSI, 6 BPM. ISDP - 3600 PSI, bled to 2875 PSIG in 10 minutes. Estimate 6 perfs open. Opened to frac tank, let flow overnight.

6/30/82 Well made 34 Bbls overnight. Dead this morning. Swab 20 Bbls oil and tubing dried up. Unset packer and drop down to 6013.37' KB. Reverse circulate oil out of hole to frac tank. Trip out of hole with tubing, Model R packer and tail pipe. Trip in hole w/ retrieving head to 6039.87' KB. Retrieve Model C Bridge Plug and pull up and set it again @ 5815.15' KB per tubing tally and pressure test to 4500 PSI. Held OK. Trip out of hole w/ tubing and retrieving head. Rig up Bluejet to perforate second stage Gallup per correlation log as follows: 5592 - 5614' KB, 22 ft., 12 holes; 5630 - 5641' KB, 11 ft., 5 holes; 5673 - 5681' KB, 8 ft., 3 holes; 5729 - 5731' KB, 2 ft., 2 holes; 5769 - 5781' KB, 2 ft., 2 holes. Total 24 holes. Rig down loggers. SDON.

7/1/82 Trip in hole w/Baker Service straddle tools to breakdown perfs w/Western acid pump in 5 packer settings.
1st set - 2 holes @ 5769 and 5771' KB. Broke down @ 2650 PSI, pump 23 Bbls water, 1 Bbl acid into perfs. Pumped acid into perfs @ 2.7 BPM 2250 PSI. ISIP 1400 PSI.
2nd set - 2 holes @ 5729 and 5731' KB. Spot 1 Bbl acid 1000' from perfs. Set packers and pump acid away. Broke @ 2650 PSI. Pump in @ 3400 PSI, 3 Bbls/minute. When acid hit pressure dropped to 2550 PSI @ 3.0 BPM. ISIP 1200 PSI.
3rd set - 3 holes between 5673 - 5681' KB. Spot 1.5 Bbls in the tubing. Set packers and pump acid away. Broke @ 2600 PSI. Pump

MERRION OIL & GAS CORPORATION

WARITO COM NO. 1
Sec. 7, T25N, R8W
San Juan County, New Mexico

- 6/23/82 Rig up Western. Set straddle packers across bottom perfs @ 5924 - 44' KB. Pumped 2 Bbls 15% HCL w/Aquaflow and broke down perfs. Reset packers @ 5854 - 74' KB. Broke down perfs w/2 Bbls 15% HCL w/Aquaflow. ISDP - 1st setting 2250 PSIG. Second setting 1800 PSIG. Unloaded hole w/N₂. Trip out. Started pad on foam frac. Pressure levelled @ 4150 PSIG, then suddenly climbed to 4450 four minutes into pad. Shut-down, flowed back. Tried to pump in again. Pressured up to 4500 PSIG. Shut down. Flowed back. Tried to pump in again. Pressured up to 4500 PSIG. Shut down. Flowed back. Wait on Model R Packer from town. Ran tubing w/Model R packer to 5974.93' KB and spotted 100 gal. 15% HCL.
- Pull tubing to 5909.81' KB and set packer and pump acid away. Pull up to 5818' KB and set packer and ball off w/33 balls. Ball off w/400 gal. acid to 4500 PSI. Bleed back and let the balls drop off the perfs. Pump back in @ 4400 PSI, 6.1 BPM flow back and shut in. SDON.
- 6/24/82 Unload hole w/N₂. Trip out. Start frac pad @ 30 BPM foam. Pressure built to 4500 PSIG. Shut down. Started pad @ 20 BPM. Pressure leveled @ 4500 PSIG. Unable to frac. Shut down. Blew well down. Loaded hole w/2% KCL water and broke down perfs. Obtained rate of 17 BPM @ 4050 PSIG. Indicated 9 holes open. ISDP 2850 PSIG. Indicated possibly only bottom zone open. Flow back. Rig up Bluejet. Reperf both zones, 5922' - 42' w/11 holes, 5852 - 72' w/11 holes. Found PBTD @ 6000'. Breakdown and establish rate. 14.5 BPM @ 4450 PSIG. ISDP - 3400 PSIG. Indicate 7 holes open. Conclude something plugging perfs. SDON.
- 6/25/82 Trip in hole with seating nipple and saw-tooth collar on bottom. Tag fill @ 6003' KB. Clean out 4' to tag bridge plug @ 6007.37' KB. Reverse circulated out 23 ball sealers w/9 hits. Cleaned out frac sand and a little cement. Trip out of hole w/saw-tooth collar and seating nipple. Trip in hole w/bridge plug, retrieving collar and seating nipple. Trip in hole w/bridge plug, retrieving head and Model 'R' packer. Set down over bridge plug fishing neck and could not get off. Pulled bridge plug free and re-set @ 6007' KB. Pull up and pressure test bridge plug. Lost pressure. Either packer or plug was not holding. Pull bridge plug and packer. SDON.
- 6/26/82 Trip in w/Model R packer and Model C bridge plug. Set plug @ 6040' KB. Set pkr and pressure test to 4500 PSIG. Held OK. Move packer to 5900' KB. Rig up Western. Pump 750 Gals. 15% HCL w/1 gal/1000 Aquaflow, displace 189 gals into formation and communicated to casing. Reverse acid out of hole. Move packer below perfs, pressure test, OK. Communicated behind pipe. Pull packer to 5830' KB and acidized perfs 5852 - 72, 5922 - 42' KB, w/750 gals. 15% HCL w/1 gal/1000 Aquaflow. Staged acid in at low rate and pressure dropped continuously throughout job. Final rate - 6 BPM, pressure 1500 PSIG. Swab acid back. Pumped 1000 gal. 15% HCL w/1 gal/1000 Aquaflow. Mixed 500 lbs. salt as diverting agent in acid. Displaced w/salt water. Rate 8 BPM @ 3475 PSIG final. SDON.

MERRION OIL & GAS CORPORATION

WARITO COM NO. 1

SEC. 7, T25N, R8W

San Juan County, New Mexico

6/16/82
Con't.

Rig down Bluejet. Tubing in hole w/new Model R packer and set @ 5423' KB. Rig up Dowell to try and circulate between 2 holes @ 5520' KB and holes @ 5300' KB. Pump in @ 2 BPM, 2000 PSI down the tubing. Got communication. Pumped total of 8 Bbls and got approximately 15 gal. circulated out the casing. Pull packer to 5228' KB and had trouble getting packer to un-jay. Pressure test packer down the backside and it held 3000 PSI good. Ran packer back down below upper perf and set @ 5358' KB. Tried to pump down the backside, no circulation and could not pump in @ 2000 PSI. Pump down the tubing and circulate @ 5 BPM, 1000 PSI, 1 BPM @ 1500 PSI, 2 BPM @ 2000 PSI, 3 BPM @ 2000 PSI. Same returns through-out. Approximately 15 gal/min. Release packer and trip in to set packer @ 5553' KB. Pump down tubing @ 2 BPM, 1000 PSI, a little better returns than the first setting. Pull out of hole w/tubing and packer. Trip in hole w/cementing retainer and set @ 5494.65' KB. Sting out of retainer and pull up to 5250' KB. SDON.

6/17/82

Lower tubing and sting into retainer @ 5495'. Mix 30 sx Class H Neat cement. Displace to perfs and put away at 1/4 BPM leaving cement from retainer to squeeze holes @ 5520' KB and 5595' KB. Sting out of retainer and reverse clean. Pick up to 5320'. Spot 20 sx Class H Neat cement, pick up to 4500' and reverse clean. Squeeze off perfs @ 5300' @ 3500 PSIG. Shut-in well. WOCT. (SS)

6/18/82

Waiting on cement.

6/19/82

Drilled cement-out to 5320' KB and pressure test to 4500 PSI. Held OK. Drill out to retainer @ 5495' KB, drilled out retainer and clean out to 5550' KB and pressure test to 4500 PSI. Held OK. Drilled out to 5650' KB and pressure test to 4500 PSI. Hole @ 5595' KB. Held good. SDON.

6/20/82

Tag cement @ 5712' KB and drilled out to 5810' KB. Hole @ 5790' KB and pressure test to 4500 PSI. Held good. Drilled out retainer @ 5818' KB and clean out to bridge plug @ 6055' KB. Pressure test to 4500 PSI. Held good. SDOWE.

6/22/82

Ran tubing to 6010' KB and rig up Western Company. Rolled the hole w/10 Bbls gel plug and fill the hole w/frac fluid. Trip out of hole with tubing and rig up Bluejet to perforate. Perforate as follows: From 5922 - 5942' KB, 20', 11 holes. From 5852 - 5872' KB, 20', 11 holes. Total holes 1st Stage Gallup 22 holes. Rig down Bluejet and trip in hole with straddle packers and mechanical collar locator. To break down perfs in 2 settings as follows:

1st setting - 11 holes from 5922 - 5942' KB - Broke @ 2800 PSI pump in @ 2500. ISIP 2000 PSI.

2nd setting - 11 holes from 5852 - 5872' KB - Broke @ 2100 PSI, pump in @ 1900 PSI. ISIP 1400 PSI.

MERRION OIL & GAS CORPORATION

WARITO COM NO. 1

SEC. 7, T25N, R8W

San Juan County, New Mexico

- 6/11/82 Swab well down in 9 runs. Made 28 Bbls water to tank, no oil, trace of gas. Let well sit 45 minutes, found 200 ft. fluid. Pulled estimated 1 Bbl dirty water, no gel, w/acid smell and oil smell. Followed same procedure remainder of the day w/no change. Left open to tank. SDON. Well dead in morning w/no production overnight. Found fluid @ 4000' from surface. Swab
- 6/12/82 Swab main Dakota dry, no oil, water, trace or gas. Trip out w/ tubing. Trip in w/Baker retainer and set @ 6355' KB. Rig up Cementers Inc. Mix 35 Sx Class 'B' cement and displace to perfs. Squeeze away 25 sx. Sting out of retainer and reverse hole clean. Trip out. SDON. (SSD)
- 6/13/82 Trip in w/Mod 'C' retrievable bridge, set @ 6048' KB. Circulate hole, pressure test to 4500 PSIG, OK. Drop 15 gal 20/40 frac sand in tubing, wait 15 minutes, trip out. Rig up Blue Jet. Perforated 2 squeeze holes @ 5870' KB per Correlation Log and 2 squeeze holes @ 5300' KB per Correlation Log. Trip in w/Baker retainer and set @ 5818' KB per tally. Pump in below retainer @ 2 BPM, 4000 PSIG, could not establish circulation. Pump into upper holes down annulus @ 1-1/2 BPM @ 4200 PSIG, still could not circulate. Tried tubing again without success. Sting out of retainer and pulled tight for 10 ft. Reverse hole w/80 Bbls. Circulated frac sand, gas, oil, water out to pit. Sting into retainer okay. Trip out. Perforate 2 squeeze holes @ 5590' KB. Trip in w/tubing and sting into retainer. Pump below retainer, unable to establish circulation @ 1-1/2 BPM, 4000 PSIG. Pull 15 stands, SDOWE. (SSD)
- 6/15/82 Trip in 15 stands and sting into retainer @ 5818' KB. Pull out of retainer and load the backside. Sting back into retainer and pump 25 sx Class H, neat cement to plug two perfs @ 5870' KB. Squeeze to 4300 PSI. Held good for 10 min. Pull out of retainer and reverse circulate the tubing clean. Pull tubing and rig up Bluejet and perforate 2 holes @ 5790' KB. Trip in hole w/Model R packer and set @ 5620' KB and tried to establish circulation from holes @ 5790' KB to holes @ 5595' KB. No circulation, pumping 1.5 BPM @ 1800 PSI. Squeeze off holes @ 5790' KB w/15 sx Class H neat cement. Squeeze to 3200 PSI. Left 3200 PSI on tubing. Leave packer in hole overnight. SDON. (COM)
- 6/15/82 Tubing pressure 0. Casing pressure 50 PSI. Release packer @ 5620' KB and pull up to 5550' KB. Set packer and pump down the tubing to try to establish circulation with rig pump from 2 holes @ 5595' KB to 2 holes @ 5300' KB. Brokedown @ 1800 PSI, pump in @ 1200 PSI. Pump 5 Bbls, no circulation. Pulled packer, all rubber off of packer. Rig up Bluejet to perforate 2 holes @ 5520' KB. Tagged packing elements several times w/gun. Perforated OK. Bluejet ran a junk basket to retrieve packer rubbers and push junk to bottom. Tag cement @ 5712' KB. Junk basket came out w/2 packer rubbers inside.

WARITO COM No. 1
Sec. 7, T25N, R8W
San Juan County, New Mexico

- 6/5/82 250 PSI tubing, 650 PSI casing. Blew down tubing. Swab down to stabilized rate 20 bbls/hour from Dakota, 10% oil, 100 - 150 MCF gas. 24 hour rate - 28 BOPD, 432 BWP. Still frac water. Casing @ 600 PSIG. Drop tubing to bottom, found no fill. Trip out. Run Mod 'R' packer. Trip in, set @ 6420' KB to test main Dakota. Shut-in overnight.
- 6/6/82 250 PSI tubing, 950 Casing. Found FL. @ 3500'. Swab 40% oil 1st run, pull 2000'. Drop to 10% oil. Swab down. 100 ft. of fluid in hole. No production. Swabbed total of 13 Bbls. Move packer to 6320' to test Dakota 'B' perfs. Swab down to sustained rate of 4 Bbls/run mostly water, trace of oil, slight blow of gas. 16 - 20 BWP hour estimated. Casing building pressure steadily from Graneros. SDOWE.
- 6/8/82 1100 PSI casing, 1000 PSI tubing, blew tubing down. Fluid level 3500'. Swab tested, stabilized rate 4 BW per run. Trace of oil. Blew down backside, making oil and gas, no water. Released Mod. R packer. Hung up packer 2 ft. above 6330' setting depth. Worked packer, unable to pull free @ 30,000 lbs over string weight. Rig up to conventional circulate. Established circulation and worked packer, pulled free. Circulated gas out of hole. Trip out. Found gouges in packer indicating possible piece of metal wedged behind packer. Trip in w/Mod. R packer and Baker Mod C retrievable plug. Set bridge plug @ 6330' KB, packer @ 6260' KB. Isolated Graneros perfs. Started swabbing. Pulled 22 Bbls fluid, fluid level rising on each pull. Shut-in overnight. Found 600 PSIG on tubing this morning, casing dead. Started flowing to tanks. Sample shows 75% oil.
- 6/9/82 Tubing 600 PSI. Casing 0 PSI. Open to stock tanks @ 8:15 AM. Made 10 Bbls 10% oil, 1st hour, put through separator, made 6 Bbls 2nd hour. Gas Rate 205 MCF/day, 1/2" plate w/50 PSI tubing. 3rd hour - gas rate 175 MCF/day, fluid 10 Bbls 25% oil, fluid rate dropped to 2.5 Bbls/hour by 8th hour. 30% oil, average gas 175 MCF/day, 50 PSIG tubing pressure. Estimated 24 hour rate 175 MCF/day gas, 20 Bbls/day oil. (SSD)
Casing pressure 500 PSIG. Bleed off pressure. Trip in w/Mod 'R' packer, set @ 6420' KB. Rig up Western and breakdown, pump in @ 3.8 BPM @ 4000 PSIG. Did a balloff w/500 gals 15% HCL. Flow back to allow balls to drop. Pump in again @ 4.4 BPM @ 4350 PSIG w/2% KCL water. ISDP 2700 PSIG. Indicates all holes open. Western Company fraced Dakota as follows:
- | | |
|-------------|-------------------------|
| 10,000 Gal. | Gel-CO ₂ Pad |
| 5,000 Gal. | 1/2 #/gal. 20/40 sand |
| 4,200 Gal. | 1 #/gal. 20/40 sand |
- Shut down, screened out - total sand 6,752 lbs.
Avg. Pressure - 4600 PSIG.
Max. Pressure - 6000 PSIG.
ISDP - 2700 PSIG.
Avg. Rate - 8 BPM w/400 SCF/Bbl CO₂.
Final shut-in 2200 PSIG in 15 minutes.
Shut-in well 2 hours. Pressure 1700 PSIG. Opened on 1/2" choke to pit. Died off immediately to a slow stream. Removed choke and put into frac tank. Made 1'6" overnight or 34 Bbls in 16 hours. Gel was broke by next morning. Ran sinker bar and found sand @ 6516' KB or 40' below perfs. Riggging up to

WARITO COM No. 1
Sec. 7, T25N, R8W
San Juan County, New Mexico

- 5/29/82 Western Co. rolled the hole w/10 Bbls gel plug & filled the hole w/frac fluid. Spotted 250 gals 15% HCL across the perfs. Pulled tbg. w/casing scraper and bit. Rig up Bluejet to run Gamma Ray & Cement Bond logs. Had trouble getting a good bond log. Pressure to 1,500. Reran log. Gamma Ray Correlation log perforated as follows:
- 1 hole @ 6193' KB
 - 2 hole @ 6236' KB & 6239' KB
 - 10 holes between 6275' & 6293' KB
 - 2 holes @ 6374' & 6378' KB
 - 1 hole @ 6394' KB
 - 9 holes between 6447' & 6471' KB
- 25 holes total
- Rig down Bluejet & pump 12 Bbls down the casing to pump the acid away. Pumped in @ 1,100 psi. ISIP 1,000 psi.
Daily est. cost: \$9,350.00. Cum. est. cost: \$ 26,318.80
- 5/30/82 SDOW
- 6/02/82 Ran 2-3/8" tubing to spot acid across the perfs. Spotted 250 gals 15% HCL with 2-1/2 lb/ 1000 gal. FR-2 2% KCL. Straddle pack breakdown as follows:
- 1st set: 9 holes from 6447'-6471' KB. Broke @ 3,000 psi. Pump in @ 2,800 psi. ISIP 2,500 psi.
 - 2nd set: 1 hole @ 6394' KB Pressure up to 4,500 psi. No breakdown.
 - 3rd set: 2 holes @ 6374' & 6378" KB. Broke @ 2,000 psi. Pump in @ 1,700 psi. ISIP 1200 psi.
 - 4th set: 10 holes @ 6275'-6293' KB. Pumping in @ 1000 psi. ISIP 800 psi.
 - 5th set: 2 holes @ 6236' & 6239' KB. Pump in @ 3600 psi. ISIP 3300 psi.
 - 6th set: 1 hole @ 6193' KB Pump in @3000 psi. ISIP 2800 psi
- Breakdown complete. Pull tubing & packers. Rig up Western Co. to frac. Fraced Dakota as follows: Pump 595 Bbls pad, pump 1905 Bbls fluid w/ 1 lb/gal 20/40 sand. Flush w/ 103 Bbls. All fluid 2.5 lb./1000 gal FR-2 1 gal/1000 aquaflo 2% KCL. Total fluid to recover 2,632 Bbls. Total sand: 80,000 lbs. 20/40' sand. Avg treating pressure: 3800 psi. Max treating pressure: 4250 psi. Avg rate: 38 BPM. ISIP 2400 psi. Final shut-in pressure after 15 min: 1650 psi. 25 holes open when started frac, 14 holes open when completed.
- 6/03/82 400 Bbls flowing @ 70 psi thru adjustable flow choke set @ 30/64". Sample showed 15% oil, 85% frac fluid. Ran sandline depthometer to show sand fill @ 6425' KB. Well is making a little gas, no fluid. Ran 2-3/8 tbg w/ sawtooth collar & reverse circulated the sand out to 6550' KB PB & D. Well dead. Pull tab to 6140' KB above perfs & started swabbing. Fluid level at surface @ 2:00 PM. Swabbed 2 hrs: 84 Bbls; on vacuum after each run. No gas, no oil. Swabbed until 5:00 PM. Fluid level never dropped past 1500' KB. Swabbed from 4200 KB. Well dead. Shut in overnight. Daily est. cost: \$2,000.00 Cum est. cost: \$66,615.80.
- 6/04/82 Tbg pressure 400 PSIG. Casing 250 PSIG. Fluid level @ 1500 KB. Started swabbing.
- 6/04/82 Tubing 400 PSIG. Casing 250 PSIG. Opened tubing, well dead. Started swabbing. Well started flowing @ 9:00 AM: 20 Bbls/hr. Flowed all day. Casing pressure up to 300 PSIG @ 2:00 PM: produced 10% oil, 20 bbls/hr. Flow to frac tanks overnight. SDON Daily est. cost: \$2,000. Cum est. cost: \$ 68,615.80.
- 6/05/82 AM: Well making heavy mist. Made 386 Bbls fluid overnight. Morning sample 2% oil. Estimate 1000 Bbls back to the frac tanks after putting flow to tanks after the frac.

MERRION OIL & GAS CORPORATION

WARITO COM No. 1
Sec. 7, T25N, R8W
San Juan County, New Mexico

- 5/4/82 Move in, rig up Young Rig 3.
5/5/82 Waiting on cement @ 234'. Spud. Set 209' of 8-5/8" casing @ 223' KB w/170 sx Class B 2% CACL.
5/6/82 Pressure tested surface casing, bled off from 600 PSI to 200 PSI. Ordered out cementers. Rig up Cementers Inc. Pumped 5 Bbls H₂O ahead. Then 150 sx w/3% CACL. Displaced with 11 Bbls H₂O. NO sign of circulation to surface. Shut in for 8 hours. Pressure test, OK. Drilled out 14 ft. of hard cement.
5/7/82 Drilling @ 2710'. Mud wt. 8.9, Vis. 29, Water Loss 11.
5/8/82 Drilling @ 3390. Mud wt. 8.8, Vis. 30, Water Loss 10.
5/9/82 Drilling @ 4020. Mud wt. 8.7, Vis. 28, Water Loss 8.
5/10/82 Drilling @ 4572. Mud wt. 8.9, Vis. 30, Water Loss 8.
5/11/82 Drilling @ 5030. Mud wt. 8.9, Vis. 29, Water Loss 10.8.
5/12/82 Drilling @ 5470. Mud wt. 8.9, Vis. 30, Water Loss 10.
5/13/82 Drilling @ 5986. Mud wt. 9.0, Vis. 32, Water Loss 8.8.
5/14/82 Drilling @ 6280. Mud wt. 1, Vis. 34, Water Loss 8.8.
5/15/82 Drilling @ 6520. Mud wt. 9, Vis. 36, Water Loss 8.
5/16/82 TD @ 6610. Mud wt. 9.1, Vis. 88, Water Loss 8.0.
Trip out for logs. Rig up Dresser. Ran IES Induction, Compensated Neutron Density Logs.
5/17/82 Finished running logs. Lay down drill pipe. Ran 158 joints of 4-1/2" 11.6 #/ft., K-55, R-3 casing. 3 Stage cementing in progress.

5/18/82 All pipe 11.6#/ft Central Steel Tube Co.

ITEM	LENGTH	KB DEPTH
Guide Shoe	1'	6609' KB
1 jt 4.5 11.6 #/ft. casing	42.55'	
Float Collar	1.68'	6564.77' KB
49 jts 4.5 11.6 #/ft csg	2069.44'	
Stage Tool	1.68'	4493.65' KB
60 jts 4.5 11.6 #/ft csg	2511.89'	
Stage Tool	1.68'	1908.08' KB 1980.08
48 jts 4.5 11.6 #/ft csg	2015.6'	35.52' above KB

Total pipe 158 jts. 4.5 11.6 #/ft. casing 6639.48'.

Total string length w/tools 6645.54'.

Top of cement 200' from surface.

Cementing procedure - Long string 3 Stage.

Cement first stage w/620 sx Class H 2% D-20 yield - 1.35

cu. ft/sx. Cement Second Stage w/385 sx Class B 2% D-79,

yield 1.6 cu. ft/sx. and 50 sx Class H 2% D-20, yield 1.35

cu. ft/sx. Cement Third Stage w/385 sx Class B 2% D-79,

yield 1.6 cu. ft/sx. AND 50 sx CLASS H 2% D-20, YIELD 1.35 FT³/SX

Last plug down @ 10:15 AM 5/17/82.

- 5/24/82 J & R completed tank battery. Also hookup of temporary cold 2 phase separator.
5/28/82 Tag 1st stage tool @ 1980' KB. Drilled out & pressure tested to 4,500 PSIG, OK. Tag 2nd stage tool @ 4493' KB. Drilled out & pressure tested to 4,500 PSIG, OK. Cleaned out to PBTD @ 6565' KB. Pulled off bottom, SDON.
Daily est. Cost: \$16,968.80. Cum est. cost: \$16,968.80