

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other _____		5. LEASE DESIGNATION AND SERIAL NO. SE 079071	
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESRV. ☐ Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Merriam Oil & Gas Corporation		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P. O. Box 1017, Farmington, New Mexico 87499		8. FARM OR LEASE NAME Canyon Largo Unit	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 840' FSL and 1680' FWL At top prod. interval reported below Same At total depth Same		9. WELL NO. 316	
14. PERMIT NO.		10. FIELD AND POOL, OR WILDCAT Devils Fork Gallup	
DATE ISSUED		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 21, T25N, R6W	
15. DATE SPUDDED 9/10/82		12. COUNTY OR PARISH Rio Arriba	
16. DATE T.D. REACHED 9/20/82		13. STATE New Mexico	
17. DATE COMPL. (Ready to prod.) 10/4/82		18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 6366' KB	
19. ELEV. CASINGHEAD 6353' GL		20. TOTAL DEPTH, MD & TVD 6160' KB	
21. PLUG BACK T.D., MD & TVD 6118' KB		22. IF MULTIPLE COMPL., HOW MANY*	
23. INTERVALS DRILLED BY 0-TD		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 5681 - 6071' KB Gallup	
25. WAS DIRECTIONAL SURVEY MADE No		26. TYPE ELECTRIC AND OTHER LOGS RUN IES Induction, Compensated-Density Logs	
27. WAS WELL CORED No		28. CASING RECORD (Report all strings set in well)	
CASING SIZE		WEIGHT, LB./FT.	
8-5/8"		23 #/ft	
4-1/2"		11.6 #/ft	
DEPTH SET (MD)		HOLE SIZE	
235' KB		12-1/4"	
6160' KB		7-7/8"	
CEMENTING RECORD		AMOUNT PULLED	
170 sx (200.6 cu. ft.)			
225 Sx Class H (303 cu. ft.)			
700 Sx. Class B (1442 cu. ft.)			
100 sx Class H (135 cu. ft.)			
29. LINER RECORD		30. TUBING RECORD	
SIZE		TOP (MD)	
BOTTOM (MD)		SACKS CEMENT*	
SCREEN (MD)		SIZE	
2-3/8"		DEPTH SET (MD)	
5680' KB		PACKER SET (MD)	
31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
5879 - 81', 2 holes 6071', 1 hole		DEPTH INTERVAL (MD)	
5895 - 97', 2 holes 5681', 5692', 5705',		AMOUNT AND KIND OF MATERIAL USED	
6028 - 35', 6 holes 5719', 1 hole each,		See attached	
6037 - 41', 5 holes 5734 - 40', 4 holes,			
6046 - 50', 5 holes 5744 - 54', 6 holes			
6058 - 62', 3 holes 5780 - 96', 9 holes			
33. PRODUCTION			
DATE FIRST PRODUCTION 10/2/82		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing	
WELL STATUS (Producing or shut-in) Producing			
DATE OF TEST 10/4/82		HOURS TESTED 24	
CHOKE SIZE 3/4"		PROD'N. FOR TEST PERIOD 235	
OIL—BBL. 235		GAS—MCF. 503	
WATER—BBL. 5		GAS-OIL RATIO 2140	
FLOW. TUBING PRESS. 50		CASING PRESSURE 200 PSI	
CALCULATED 24-HOUR RATE 235		OIL—BBL. 235	
GAS—MCF. 503		WATER—BBL. 5	
OIL GRAVITY-API (CORR.) 45°			
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Hooked up 11/12/82 Vented - to be sold as soon as connection made by El Paso		TEST WITNESSED BY Craig Merilatt	
35. LIST OF ATTACHMENTS 32. - Frac			
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED <i>Steve J. ...</i>		TITLE Operations Manager	
DATE 10/4/82		NOV 17 1982	

*(See Instructions and Spaces for Additional Data on Reverse Side)

NMOCC

FARMINGTON DISTRICT
DV *...*

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions. If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES			38. GEOLOGIC MARKERS			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Gallup	5681	6071	Gas, Oil	Ojo Alamo Kirtland Fruitland Pictured Cliff Lewis Cliffhouse Menefee Pt. Lookout Mancos Gallup	1725 1840 2000 2300 2390 3826 3880 4515 4672 5678	

RECEIVED

OCT 05 1982

MERRION OIL & GAS CORPORATION

Canyon Largo Unit 316
Section 21, T25N, R6W
Rio Arriba County, New Mexico

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

- 9/10/82 Move in, Rig up Young rig 2. Spud 7:30 PM. TD 260'. Current operation waiting on cement. Set 225' 8-5/8" surface casing @ 235' KB w/170 sx (200.6 cu. ft.) cement.
- 9/11/82 TD 2270'. Current operation drilling. Mud wt. 8.8, Vis. 38, Water Loss 6.4.
- 9/12/82 TD 3100'. Current operation drilling. Mud wt. 8.8, Vis. 38, Water Loss 6.4.
- 9/13/82 TD 3690'. Current operation drilling. Mud wt. 8.9, Vis. 36, Water Loss 6.0.
- 9/14/82 TD 4077'. Current operation drilling. Mud wt. 8.0, Vis. 37, Water Loss 6.
- 9/15/82 TD 4645'. Current operation drilling. Mud wt. 8.9, Vis. 40, Water Loss 6. 1/2° deviation @ 3898'.
- 9/16/82 TD 5090'. Current operation drilling. Mud wt. 9.0, Vis. 39, Water Loss 6.
- 9/17/82 TD 5530'. Current operation drilling. Mud wt. 9.1, Vis. 36, Water Loss 6.0.
- 9/18/82 TD 5863'. Current operation tripping for bit. Mud wt. 9.2, Vis. 35, Water Loss 7.
- 9/19/82 TD 6141'. Current operation drilling. Mud wt. 9.1, Vis. 40, Water Loss 6.5.
- 9/20/82 TD 6160'. Condition hole and trip out for logs. Rig up Dresser Atlas. Ran Dual Induction Focused Log and Compensated Density Log. Rig down loggers. Trip in to lay down.
- 9/21/82 Lay down drill pipe and collars. Rig up casing crew and run 6191' of 4.5, 11.6 #/ft, K-55, 10rd ST&C New casing.

Item	Length	Depth
Guideshoe	1'	6160'
Shoejoint - 1 jt. 4.5	40.35'	
Float Collar	1.68'	6117.97'
29 joints 4.5, 11.6 #/ft csg.	1169.57'	
Stage Tool	1.68'	4946.72'
124 jts csg.	4980.96'	
Total String	6195.54'	35.54' above KB

(A.S.S. P.S.S. API EU JE 4.5" 11.6 #/ft ST&C 4900 PSI
Nippon Steel Corp.)

2 stage cement w/Dowell Cementers and Dowell cementing tools.

Stage 1: 10 Bbls H₂O ahead. Mix and pump 225 sx Class H w/2% D-20, Yield 1.35 cu. ft/sx. (303 cu. ft.) 14.8 density. 54 Bbls total slurry. Drop plug. Wash up lines. Displace w/95 Bbls mud and water. Open stage tool. Circulate w/mud. Wait three hours from plug down time @ 2:30 PM.

Stage 2: Pump 10 Bbls water ahead. Mix and pump 700 sx Class B 2% D-79 (1442 cu. ft.) yield 2.06 cu. ft/sx. 12.5 density. Mix and pump 100 sx Class H 2% gel (135 cu. ft.) Yield 1.35 cu. ft/sx. Total cement 257 Bbls. Shut down drop plug. Wash lines. Displace w/77 Bbls water. Bumped plug. Held good. No cement at the surface. Call Wilson Service Co. to run Temperature Survey. Rig down, move off.

MERRION OIL & GAS CORPORATION

CANYON LARGO UNIT 316
Section 21, T25N, R6W
Rio Arriba County, New Mexico

RECEIVED

- 9/28/82 Move in, rig up Bayless No. 3. Trip in w/2-3/8" Central Steel Tube tubing w/3-7/8" bit and scraper. Tag stage tool @ 4947' KB. Drill out and pressure test to 4500 PSIG. OK. Shut down overnight.
- 9/29/82 Clean out to bottom @ 6118' KB. Rig up Western Co. and roll the hole with a 10 Bbl gel plug. Pull up to 6080' KB. Spot 250 gal. 15% HCL acid across the perfs. Trip out of hole w/2-3/8" tubing, 3-7/8" bit and casing scraper. Rig up Bluejet to run Gamma Ray-Correlation Log. Tool did not work. Wait for another logging tool from town. New tool from town worked OK. Run Gamma Ray Correlation Log from loggers TD @ 6112' KB to 3800' KB. Perforate w/3-1/8" casing guns as follows:
- 2 holes from 5879 - 5881' KB
 - 2 holes from 5895 - 5897' KB
 - 6 holes from 6028 - 6035' KB
 - 5 holes from 6037 - 6041' KB
 - 5 holes from 6046 - 6050' KB
 - 3 holes from 6058 - 6062' KB.
 - 1 hole @ 6071' KB.
- Shut down overnight.
- 9/30/82 Trip in hole w/straddle tools to breakdown perfs from the bottom up as follows w/rig pump:
- 1 hole @ 6071' KB. Broke @ 2800 PSI. Pump in @ 1700 PSI. ISIP 400 PSI.
 - 3 holes from 6058 - 6062' KB. Pump in @ 1400 PSI. ISIP 600 PSI.
 - 5 holes from 6046 - 6050' KB. Broke @ 1800 PSI. Pump in @ 1500 PSI. ISIP 550 PSI.
 - 5 holes from 6037 - 6041' KB. Pump in @ 800 PSI. ISIP 200 PSI. No visible communication.
 - 6 holes from 6028 - 6035' KB. Pump in @ 1800 PSI. Broke 2400 PSI. ISIP 600 PSI.
 - 2 holes from 5895 - 5897' KB. Broke @ 2600 PSI. Pump in @ 1800 PSI. ISIP 1050 PSI.
 - 2 holes from 5879 - 5881' KB. Broke @ 2800 PSI. Pump in @ 2500 PSI. ISIP 1200 PSI.
- Breakdown complete. Drop packers down to 6110' KB. Western N₂. Tied on and evacuated the hole w/N₂. Trip out of hole with straddle tools and tubing. All packer rubbers in good shape and in place. Rig up Western Co. to frac. Wait on sand from town - then sand truck got stuck on location. Could not get it out w/ 4-Way Caterpillar. Decided to wait until following day to frac. Shut down overnight.

MERRION OIL & GAS CORPORATION

CANYON LARGO UNIT 316
Section 21, T25N, R6W
Rio Arriba County, New Mexico

10/1/82 25 perfs from 5879' to 6071' KB.
Frac down the casing as follows:

75 quality foam in 2% KCL water w/1 gal/1000 Aquaflow.

30,000 Gal. Foam Pad

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

40,000 Gal. 1-1/2 #/gal. 20/40 sand

Pressure increased rapidly at the end of 1-1/2# sand, did not run any 2 #/gal. sand. Flush at maximum pressure 4500 PSI w/3900 gal. 75 quality foam.

Total sand 80,000 lbs. 20/40 sand

Avg. rate 30 BPM.

Avg. pressure 3800 PSI.

ISDP 3300 PSI

Final shut in pressure after 15 minutes 3200 PSI.

Total water 558 Bbls.

Total N₂ 1,800,000 SCF.

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

10/2/82 Made 99 Bbls total fluid to frac tank in 16 hours. Sample 80% oil. Gas est. @ 150 MCF/Day. Rig up Bluejet. Ran Baker Wireline Set Retrievable and set @ 5840' KB. Pressure tested to 4500 PSIG. Held good. Perforated Upper Gallup w/3-1/2" casing guns as follows:

5681', 1 hole; 5692', 1 hole; 5705', 1 hole; 5719', 1 hole;

5734 - 40', 4 holes; 5744 - 54', 6 holes; 5780 - 96', 9 holes;

Total 23 holes.

Trip in w/Baker Straddle Packers. Rolled hole w/2% KCL water, spotted 250 Gal. 15% HCL @ 5805' KB. Broke down perfs as follows:

5780' - 96', breakdown @ 1000 PSI, Pump in @ 800 PSI, ISDP 500 PSI.

5744' - 54', breakdown @ 1100 PSI, Pump in @ 800 PSI, ISDP 200 PSI.

5734' - 40', breakdown @ 1000 PSI, Pump in @ 800 PSI, ISDP 500 PSI.

5719', breakdown @ 3400 PSI, Pump in @ 2000 PSI, ISDP 800 PSI.

5705', breakdown @ 1700 PSI, Pump in @ 1500 PSI, ISDP 800 PSI.

5692', breakdown @ 2500 PSI, Pump in @ 1800 PSI, ISDP 1000 PSI.

5681', breakdown @ 3500 PSI, Pump in @ 2700 PSI, ISDP 1100 PSI.

Unloaded hole w/N₂. Trip out. Rig up Western and foam fraced w/ 75 Quality foam, 2% KCL, 1 gal/1000 Aquaflow as follows:

30,000 Gal.

Foam Pad

20,000 Gal.

1 #/gal. 20/40 sand.

27,000 Gal.

1-1/2 #/gal. 20/40 sand.

3,700 Gal.

Foam Flush

Average Rate - 30 BPM. Average Pressure - 3500 PSIG. Total Water - 502 Bbls. Total N₂ - 1,536,720 SCF. Total Sand - 60,500 Lbs. ISDP 2700 PSIG.

Shut in 2 hours. Flow back on 1/2" choke. Put to frac tank overnight.