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# NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103  
Supersedes Old  
C-102 and C-103  
Effective 1-1-85

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 type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>	7. Unit Agreement Name
2. Name of Operator Merriam Oil & Gas Corporation	8. Farm or Lease Name Canada Mesa Com
3. Address of Operator P. O. Box 1017, Farmington, New Mexico 87499	9. Well No. 4E
4. Location of Well UNIT LETTER <u>F</u> <u>1520</u> FEET FROM THE <u>North</u> LINE AND <u>1650</u> FEET FROM THE <u>West</u> LINE, SECTION <u>10</u> TOWNSHIP <u>24N</u> RANGE <u>6W</u> NMPM.	10. Field and Pool, or Wildcat Basin Dakota
15. Elevation (Show whether DF, RT, GR, etc.) 6441' GL	12. County Rio Arriba

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>
OTHER <input type="checkbox"/>	OTHER <u>PBTD, Well History, First Production</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.

Well history attached.  
PBTD 6628' KB.  
First Production - 7/22/83

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18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED Frank T. Chavez TITLE Operations Manager DATE 7/25/83

APPROVED BY Original Signed by FRANK T. CHAVEZ TITLE SUPERVISOR DISTRICT # 3 DATE JUL 27 1983

CONDITIONS OF APPROVAL, IF ANY:

# 1 RION OIL & GAS CORPORATION

CANADA MESA COM 4E  
Sec. 10, T24N, R6W  
Rio Arriba County, New Mexico

6/27/83 Move in, rig up Young rig No. 2 6/26/83. Spud. Drill to 210' KB. Set 198' of 8-5/8", 24#/ft casing @ 210' KB with 175 sx Class B, 3% CACL. TD 486'. Current operation drilling. Mud wt. 8.9, Vis. 36, Water Loss 4.

6/28/83 TD 2680. Current operation drilling. Mud wt. 9.1, Vis. 40, Water Loss 6.0. Survey: 1713' - 2°.

6/29/83 TD 3370'. Current operation drilling. Mud wt. 9, Vis. 38, Water Loss 5. Survey: 2995' - 1-1/2°.

6/30/83 TD 3970'. Current operation drilling. Mud wt. 9, Vis. 38, Water Loss 6.

7/1/83 TD 4460'. Mud wt. 9, Vis. 38, Water Loss 7. Survey: 2995' - 1-3/4°.

7/2/83 TD 4696. Current operation: changing swivels. Mud wt. 9.1, Vis. 40, Water Loss 7.

7/3/83 TD 5136. Current operation drilling. Mud wt. 9+, Water Loss 6.

7/4/83 TD 5363. Current operation tripping for hole in pipe. Survey: 5138' - 1-1/2°.

7/5/83 TD 5763. Current operation drilling. Mud wt. 9.0, Vis. 38, Water Loss 5.

7/6/83 TD 6115. Current operation drilling. Mud wt. 9, Vis. 39, Water loss 6.

7/7/83 TD 6371. Current operation: blowing down trip gas. Mud wt. 9, Vis. 45, Water Loss 6.

7/8/83 TD 6690 - reached 7:00 AM 7/8/83. Mud wt. 9.4, Vis. 85, Water Loss 6.

7/9/83 Condition hole, trip out for logs. Mud wt. 9.5 #/gal. Well dead. Rig up Welex. Ran IES Incut and Compensated Neutron Density Logs. Rig down loggers. Trip in with drill pipe. Trip out laying down drillpipe. Preparing to run casing.

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Item	Length	Depth
Guideshoe	1'	6674'
1 Joint - Shoe Joint	32.80'	
Float Collar	1.68'	6638.52'
54 Joints - 5.5" casing	1974.62'	
Stage Tool	1.68'	4662.22'
5.5" casing	4681.67'	19.45' above KB
	6693.45'	

Casing description: 38 joints of 5.5" casing 17 #/ft, on bottom 1407.68 foot.  
132 joints Nippon Steel Corporation. UF 5.5", 17 #/ft, JE tested NIAC API EF EUI Nxi-G58 LT&C JE 4900 PSI.

Total joints on location: 40 joints yellow band and 133 joints new Nippon. Rolled out 2 joints yellow band, Joint #9 had a bad box and joint No. 10 had a bad pin. Threads looked as if they had been cut wrong. Rolled out Joint #173 - new Nippon, excess pipe

Long String Cement with Dowell: (Bakerline tools)

Rig circulated the last joint of casing down. Swapped to Dowell pumps and cemented 1st stage as follows:

Pumped 10 Bbls water ahead. Mix and pump 450 sx Class H cement with 2% D-20, yield 1.22 cu. ft/sk, 15.4 density (549 cu. ft/sk) 98 Bbls of slurry. Dropped plug. Washed up pump and lines, displaced Dowell broke down and could only displace with mud, Pumped displacement and 2 Bbls over, did not bump plug. Bled back, float held good

Probably did not bump plug because mud had a lot of gas in it. Drop bomb. Opened stage tool. Rig circulated plug down @ 12:30 PM. Circulated with rig pump until 4:45 PM. Dowell got pump fixed. Start 2nd Stage: Pump 10 Bbls water ahead. Mix and pump 700 sx Class B 2% D-79, Yield 2.0 cu. ft/sk, (1442 cu. ft.) 12.5 density. 260 Bbls. Mix and pump 100 sx Class H 2% D-20, (122 cu. ft.) Yield 1.22 cu. ft/sk. 15.4 Density. 22 Bbls slurry. Shut down, drop plug, wash up pump and lines. Plug down @ 6:30 PM. Displace with 110 Bbls water. Bump plug to 2500 PSI. Bled back, held good. Rig down cementers. Circulated 30 Bbls cement to surface. Pulled string weight on casing. Set slips as cemented. Rig down Young Rig No. 2.

Daily est. cost: \$33,825.00 Cum. est. cost: \$135,462.00

(CCM)

MERRION OIL & GAS CORPORATION

CANADA MESA COM 4E  
Sec. 10, T24N, R6W  
Rio Arriba County, New Mexico

- 7/20/83 Move in, rig up Star W Rig No. 7. Move 2-3/8" tubing from Canyon Largo Unit 310. Trip in hole with 4-3/4" Smith Gruner bit, Baker casing scraper on 2-3/8" EUE tubing. Tagged stage tool and pressure tested to 4000 PSI. Held good. Drilled out stage tool and pressure tested to 4000 PSI. Held good. Released pressure and shut down overnight.
- 7/21/83 Tagged PBTD @ 6628' KB. Circulated out heavy cement and mud. Pulled tubing to 6534' KB. Rig up Western. Pressure tested to 4000 PSI. Started rolling the hole with gel plug. Western pump broke down. Shut down overnight.
- 7/22/83 Rigged up Western Company. Finished rolling the hole with 10 Bbls gel plug. Loaded the hole with Dakota frac fluid and spotted 250 gal. 15% HCL with 1 gal/1000 Aquaflo from 6534' KB. Trip out of hole with 2-3/8" tubing. Rigged up Pengo Wireline. Ran Gamma-Ray Correlation Log from 6610' KB, PBTD wireline to 5000' KB and from 4700' KB to 4100' KB and perforated Dakota as follows: 1st run: 6454' - 64' KB, 2/10' zone, 2 shots/ft, 20 holes. 2nd gun of 1st run: perforated 6480 - 82' KB. 2nd run: perforated 6483' to 6503' KB. Bottom zone 6480 - 6503' KB, 2/ft, 23' zone, 46 holes. Rigged down Pengo and rigged up Western Company to frac as follows:  
Breakdown and frac with slickwater.  
2-1/2# Fr-2/1000 gal., 1 gal/1000 Aquaflo, 2# NCL, 1/4 gal/1000 Bactericide, 15#/1000 gal. Aquaseal.
- |             |                         |
|-------------|-------------------------|
| 20,000 Gal. | Slickwater Pad          |
| 10,000 Gal  | 1/2 #/gal. 20/40 sand   |
| 50,000 Gal  | 1 #/gal. 20/40 sand     |
| 36,000 Gal. | 1-1/4 #/gal. 20/40 sand |
| 6,525 Gal.  | Slickwater Flush        |
- Treating pressures: Minimum 2900 PSI, Maximum 3650 PSI, Average 3100 PSI.  
Average Rate: 39 BPM. Rate on flush 32 BPM.  
ISIP 2700 PSI. Final pressure after 15 minutes 2300 PSI.  
Total Sand - 100,000 Lbs. 20/40 sand.  
Total Water - 2,916 Bbls slickwater.
- Shut well in 2 hours. Flowed well back to reserve pit through 3/4" adjustable flow choke until pressure came down. Put flow to frac tanks overnight.
- 7/23/83 Made 430 Bbls total fluid overnight. Trace color of oil present. Make 1 hour test, flowed 10 Bbl frac water, est. 750 MCF/Day gas, Casing pressure 100 PSIG. 2nd hour test 19 Bbls water, gas same, pressure 100 PSIG. Rig up blooey line. Ran sinker bar, found no fill. Ran 2-3/8" production tubing with sawtooth collar on bottom, seating nipple 1 joint off bottom. Ran 205 joints and landed @ 6439' KB. Tubing length 6430.09'. Landed tubing, flanged up well-head and put flow to stock tanks, bypassing separator. Casing pressure 125 PSIG, tubing 25 PSIG on 32/64" choke. Left flowing. Shut down over weekend.
- 7/24/83 82 Bbls H<sub>2</sub>O. Tubing 50 PSIG. Casing 330 PSIG. Trace of oil. Flowing.
- 7/25/83 60 Bbl H<sub>2</sub>O. Tubing 25 PSIG. Casing 300 PSIG. Flowing.

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