Form 3160-4
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: November 30, 2000

# WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. NMSF078835A

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator: CONOCO INC
Contact: DEBORAH MARBERRY
E-Mail: deborah.a.marberry@conoco.com

8. Lease Name and Well No.: SAN JUAN 28-7 244M

3. Address: PO BOX 2197, DU 3084
HOUSTON, TX 77252-2197

3a. Phone No. (include area code): Ph: 281.293.1005

9. API Well No.: 30-039-26873-00-S1

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface: NWNW 850FNL 965FWL

At top prod interval reported below

At total depth

10. Field and Pool, or Exploratory: ~~BLANCO~~ MESAVERDE

11. Sec., T., R., M., or Block and Survey or Area: Sec 7 T27N R7W Mer NMP

12. County or Parish: RIO ARRIBA

13. State: NM

14. Date Spudded: 02/26/2002

15. Date T.D. Reached: 03/09/2002

16. Date Completed ☐ D & A ☒ Ready to Prod. 04/16/2002

17. Elevations (DF, KB, RT, GL)*: 6894 GL

18. Total Depth: MD 7862 TVD

19. Plug Back T.D.: MD 7859 TVD

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
GR CCL CBL

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record *(Report all strings set in well)*

| Hole Size | Size/Grade | Wt. (#/ft.) | Top (MD) | Bottom (MD) | Stage Cementer Depth | No. of Sks. & Type of Cement | Slurry Vol. (BBL) | Cement Top* | Amount Pulled |
|---|---|---|---|---|---|---|---|---|---|
| 12.250 | 9.625 J-55 | 36.0 | 0 | 288 | | 144 | | 0 | |
| 8.750 | 7.000 J-55 | 20.0 | 0 | 3616 | | 687 | | 0 | |
| 6.250 | 4.500 J-55 | 11.0 | 0 | 7862 | | 388 | | 2000 | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

24. Tubing Record

| Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) |
|---|---|---|---|---|---|---|---|---|
| 2.375 | 7730 | | | | | | | |

25. Producing Intervals / 26. Perforation Record

| | Formation | Top | Bottom | Perforated Interval | Size | No. Holes | Perf. Status |
|---|---|---|---|---|---|---|---|
| A) | ~~DAKOTA~~ | ~~7630~~ | 7794 | 7630 TO 7794 | | 96 | OPEN |
| B) | | | | | | | |
| C) | | | | | | | |
| D) | | | | | | | |

OK this Dakota Completion

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

| Depth Interval | Amount and Type of Material |
|---|---|
| 7630 TO 7794 | FRAC W/1000 GALS 15% ACID 70,000# 20/40 SAND & 236 |
| | |
| | |

28. Production - Interval A

| Date First Produced | Test Date | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---|---|---|---|---|---|---|---|---|---|
| 04/18/2002 | 04/16/2002 | 24 | → | 1.0 | 112.0 | 5.0 | | | FLOWS FROM WELL |

| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio | Well Status |
|---|---|---|---|---|---|---|---|---|
| 1/2 | 170 | 360.0 | → | | | | | GSI |

28a. Production - Interval B

| Date First Produced | Test Date | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---|---|---|---|---|---|---|---|---|---|
| | | | → | | | | | | |

| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio | Well Status |
|---|---|---|---|---|---|---|---|---|
| | | | → | | | | | |

*(See Instructions and spaces for additional data on reverse side)*

**ELECTRONIC SUBMISSION #11305 VERIFIED BY THE BLM WELL INFORMATION SYSTEM**

**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****

28b. Production - Interval C

| Date First Produced | Test Date | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---|---|---|---|---|---|---|---|---|---|
| | | | → | | | | | | |

| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate → | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio | Well Status |
|---|---|---|---|---|---|---|---|---|
| | | | → | | | | | |

28c. Production - Interval D

| Date First Produced | Test Date | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---|---|---|---|---|---|---|---|---|---|
| | | | → | | | | | | |

| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate → | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio | Well Status |
|---|---|---|---|---|---|---|---|---|
| | | | → | | | | | |

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*
FLARED

30. Summary of Porous Zones (Include Aquifers):

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.

31. Formation (Log) Markers

| Formation | Top | Bottom | Descriptions, Contents, etc. | Name | Top Meas. Depth |
|---|---|---|---|---|---|
| SAN JOSE | 0 | 1359 | | OJO ALAMO | 2421 |
| NACIMIENTO | 1359 | 2466 | | KIRTLAND | 2591 |
| OJO ALAMO | 2466 | 2640 | | FRUITLAND | 3030 |
| | | | | PICTURED CLIFFS | 3331 |
| | | | | MESAVERDE | 3531 |
| | | | | CHACRA | 4250 |
| | | | | CLIFF HOUSE | 4982 |
| | | | | MENEFEE | 5092 |
| | | | | POINT LOOKOUT | 5588 |
| | | | | MANCOS | 5888 |
| | | | | GALLUP | 6832 |
| | | | | GREENHORN | 7516 |
| | | | | DAKOTA | 7606 |

32. Additional remarks (include plugging procedure):
This well is a downhole commingled Blanco Mesaverde, Basin Dakota well. Attached are the daily summaries.

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)
2. Geologic Report
3. DST Report
4. Directional Survey
5. Sundry Notice for plugging and cement verification
6. Core Analysis
7 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

**Electronic Submission #11305 Verified by the BLM Well Information System.**
**For CONOCO INC, sent to the Farmington**
**Committed to AFMSS for processing by Adrienne Garcia on 06/18/2002 (02AXG0201SE)**

Name *(please print)* DEBORAH MARBERRY Title SPECIALIST

Signature (Electronic Submission) Date 06/12/2002

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fradulent statements or representations as to any matter within its jurisdiction.

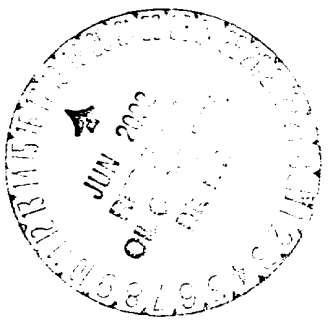
**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****

# Daily Summary

| API | County | State/Province | Surface Legal Location | NS Dist. (ft) | NS Flag | EW Dist. (ft) | EW Flag |
|---|---|---|---|---|---|---|---|
| 300392687300 | RIO ARRIBA | NEW MEXICO | NMPM-27N-7W-7-D | 1100.0 | N | 1000.0 | W |

| Ground Elev (ft) | Spud Date | Rig Release Date | Latitude (DMS) | Longitude (DMS) |
|---|---|---|---|---|
| 6882.00 | 2/26/2002 | 3/9/2002 | 36° 35' 18.2004" N | 107° 37' 18.8256" W |

| Start | Ops This Rpt |
|---|---|
| 4/11/2002 | Check well pressure. Csg - 1100 psi. Blow well down. RIH and tagged sand fill @ 5679'. Started Air Unit and cleaned sand fill to 5725'.<br>Pulled 2 3/8" tubing up to 4872'. Installed 1/2" choke nipple and tested well up the tubing. Tbg - 150 psi. Csg - 320 psi. MCFPD = 990.<br><br>Oil - 1 BBLS. Water - 5 BBLS. Test witnessed by Gilbert Benett with Key Energy Services. This is the test for the Mesa Verde zone.<br>SHUT DOWN |
| 4/12/2002 | Check well pressures. Csg - 900 psi. Blow well down. RIH with 27 jts. and tagged sand fill @ 5732'. Started Air units and cleaned sand fill to Hallib Composite plug @ 5750'. Drilled up Hallib Composite Plug @ 5750'. Continued to RIH and tagged sand fill @ 7747'. Started Air Units and cleaned sand to PBTD @ 7859'. Pulled up.<br>SHUT DOWN |
| 4/15/2002 | Check well pressures. Csg - 850 psi. Blow well down. POOH with 154 jts. of 2 3/8" tubing with mill. RIH with Mule Shoe Collar, SN and<br>248 jts of 2 3/8" tubing. Tagged sand fill @ 7850'. Started Air Unit and cleaned sand fill to PBTD @ 7859'. Circulate well to clean up. POOH with 4 jts.<br>SHUT DOWN |
| 4/16/2002 | Check well pressure. Csg - 1200 psi. Blow down casing. RIH and tagged sand fill @ 7850'. Started Air Unit's and cleaned sand fill to PBTD @ 7859'. Circulate well clean. POOH with 4 jts. of 2 3/8" tubing. Test Dakota up the 2 3/8" tubing. Flowing well thru 1/2" choke nipple. With 2 3/8" tubing @ 7730', flowing thru 1/2" choke nipple. Tbg - 170 psi. Csg - 360 psi. MCFPD = 1122. Oil = 1 bbl. Water = 5 bbls. Test witnessed by Thomas Monk with Key Energy.<br>NOTE: THIS IS A TEST FOR THE DAKOTA ONLY. USE THIS TEST FOR THE C-104. Land 2 3/8" tubing @ 7730' with KB added in. Total tubing 244 jts. NDBOP & NUWH. Rig down equipment. Rig down unit.<br>FINAL REPORT. |



# SAN JUAN 28-7 UNIT 244M (GDH 4/17/02) — Initial Completion

## Daily Summary

| API | County | State/Province | Surface Legal Location | NS Dist. (ft) | NS Flag | EW Dist. (ft) | EW Flag |
|---|---|---|---|---|---|---|---|
| 300392687300 | RIO ARRIBA | NEW MEXICO | NMPM-27N-7W-7-D | 1100.0 | N | 1000.0 | W |

| Ground Elev (ft) | Spud Date | Rig Release Date | Latitude (DMS) | Longitude (DMS) |
|---|---|---|---|---|
| 6882.00 | 2/26/2002 | 3/9/2002 | 36° 35' 18.2004" N | 107° 37' 18.8256" W |

| Start | Ops This Rpt |
|---|---|
| 3/22/2002 | HELD SAFETY MEETING. INSTALLED FRAC VALVE. RU BLUE JET.HELD 1200 # ON 4 1/2" CSG. RAN CBL LOG FROM 7847 TO 1700'. TOP OF CEMENT @ 2000'. RAN GR/CCL LOG FROM 7847' TO 1700'. RD BLUE JET. TESTED 4 1/2" CSG TO 4300 #. HELD OK. |
| 3/25/2002 | HELD SAFETY MEETING. RU BLUE JET. PERFORATED THE DAKOTA. RIH W/ 3 1/8" 90 DEGREE PP SELECT FIRE PERFORATING GUN. PERFORATED FROM 7630' - 7640' W/ 2 SPF, 7704' - 7716' W/ 2 SPF, 7744' - 7760' W/ 2 SPF, 7784' - 7794' W/ 2 SPF. A TOTAL OF 96 HOLES. SWION. RD BLUE JET. |
| 3/26/2002 | HELD SAFETY MEETING. RU BJ SERVICES. FRAC THE DAKOTA. TESTED LINES TO 4800 #. SET POP OFF @ 3880 #. BROKE DOWN FORMATION @ 7 BPM @ 1920 #. BULLHEADED 1000 GALS 15% HCL ACID @ 10 BPM @ 1550 #. PUMPED PRE PAD @ 38 BPM @ 3700 #. STEPPED DOWN RATE TO 25 BPM @ 2572 #. STEPPED DOWN RATE TO 21 BPM @ 2250 #. STEPPED DOWN RATE TO 10 BPM @ 1680 #. ISIP 1520 #. 5 MIN 1234 #. 10 MIN 1095 #. 15 MIN 960 #. 20 MIN 846 #. 25 MIN 733 # 30 MIN 632 #. FRAC THE DAKOTA W/ SLICKWATER, 70,000 # 20/40 BRADY SAND. 2369 BBLS FLUID. AVG RATE 51 BPM. AVG PRESSURE 3231 #. MAX PRESSURE 3765 #. MAX SAND CONS 1.50 # PER GAL. ISIP 1750 #. FRAC GRADIENT .63. SWI. RD BJ SERVICES |
| 3/27/2002 | HELD SAFET MEETING. RU BLUE JET. RIH W/ 4 1/2" COMPOSITE PLUG. SET PLUG @ 5750'. TESTED COMPOSITE PLUG TO 4300 #. PERFORATED THE POINT LOOKOUT & LOWER MENEFEE. RIH W/ 3 1/8" 90 DEGREE PP SELECT FIRE PERFORATING GUN. PERFORATED FROM 5468' - 5472' W/ 1/2 SPF, 5516' - 5524' W/ 1/2 SPF, 5574' - 5578' W/ 1/2 SPF, 5592' - 5598' W/ 1/2 SPF, 5612' - 5624' W/ 1/2 SPF, 5674' - 5678' W/ 1/2 SPF, 5698' - 5702' W/ 1/2 SPF. A TOTAL OF 28 HOLES. SWION. RD BLUE JET. |
| 3/29/2002 | HELD SAFETY MEETING. RU B J SERVICES. 1ST STAGE. FRAC'D THE POINT LOOKOUT& LOWER MENEFEE. TESTED LINES TO 4800 #. SET POP-OFF @ 3850 #. BROKEDOWN WELL FORMATION @ 6 BPM @ 2389 #. DROPPED 17 BIO BALL SEALERS @ 1 BALL PER BBL & 2 BALLS PER BBL FOR REMAINING 17 BALL SEALERS @ 21 BPM @ 1150 #. A TOTAL OF 34 BIO BALL SEALERS. GOOD BALL ACTION. BALLED OFF @ 3700 #. SHUT DOWN FOR 1 HR. PUMPED PRE-PAD @ 45 BPM @ 3245 #. STEPPED DOWN RATE TO 34 BPM @ 2205 #. STEPPED DOWN RATE TO 23 BPM @ 1455 #. STEPPED DOWN RATE TO 12 BPM @ 856 #. ISIP 14 #. 5 MIN 0 #. FRAC'D THE POINT LOOKOUT & LOWER MENEFEE W/ 65 Q 25 # LINEAR FOAM, 140,000# 20/40 BRADY SAND, 984,700 SCF N2, 1364 BBL FLUID. AVG RATE 55 BPM. AVG PSI 2758 #. MAX PSI 3169 #. MAX SAND CONS 3 # PER GAL. ISIP 300 #. FRAC GRADIENT .44. RU BLUE JET. RIH W/ 4 1/2" COMPOSITE PLUG. SET @ 5400'. TESTED PLUG TO 4300 #. HELD OK. PERFORATED THE CLIFFHOUSE & UPPER MENEFEE. RIH W/ 3 1/8" 90 DEGREE SELECT FIRE PERFORATING GUN. PERFORATED FROM 4990' - 4998' W/ 1/2 SPF, 5006' - 5014' W/ 1/2 SPF, 5054' - 5066' W/ 1/2 SPF, 5190' - 5200' W/ 1/2 SPF, 5348' - 5356' W/ 1/2 SPF. A TOTAL OF 28 HOLES. 2ND STAGE. FRAC'D THE CLIFFHOUSE & UPPER MENEFEE. TESTED LINES TO 4800 #. SET POP-OFF # 3800 #. BROKE DOWN FORMATION @ 6 BPM @ 3350 #. DROPPED 34 BIO BALLS. IN 1400 GALS OF 15 % HCL ACID @ 1 BALL PER BBL @ 19 BPM @ 2550 #. A TOTAL OF 34 BIO BALLS. GOOD BALL ACTION. BALLED OFF @ 3700 #. SHUT DOWN FOR 1 HR PUMPED PRE-PAD @ 36 BPM @ 2972 #. STEPPED DOWN RATE TO 27 BPM @ 2295 #. STEPPED DOWN RATE TO 18 BPM @ 1670 #. STEPPED DOWN RATE TO 9 BPM @ 1295 #. ISIP 1010 # - 5 MIN 862 # - 10 MIN 785 # - 15 MIN 725 # - 20 MIN 681 # - 25 MIN 637 # - 30 MIN 599 #. FRAC'D THE CLIFFHOUSE & UPPER MENEFEE W/ 65 Q 25 # LINEAR FOAM, 85,000 # 20/40 BRADY SAND, 641,000 SCF N2, 937 BBLS FLUID. AVG RATE 45 BPM. AVG PSI 3053 #. MAX PSI 3235 #. MAX SAND CONS 3 # PER GAL. ISIP 2000 #. FRAC GRADIENT .63. SWION. RD BJ. |
| 4/4/2002 | Road rig to location. Rig up, spot equipment. Check well pressure.<br>Csg - 1720 psi. Blow well down thru 1/2" choke nipple. Kill casing. ND Frac Valve. NUBOP. Rig up Blowie line.<br>SHUT DOWN |
| 4/5/2002 | Check well pressure. Csg - 20 psi. Blow well down. Rigged up and tested BOP'S. - OK. RIH with 2 3/8" tubing with mill. Had to pick up tubing in singles, and tally. Run to 3700' with 116 jts. Start up Air Unit and unload well. Well making heavy sand and fluid. Circulate well to clean up.<br>SHUT DOWN |
| 4/8/2002 | Check well pressures. Csg - 700 psi. Blow well down. Continue to RIH with 2 3/8" tubing with mill. Tagged sand fill @ 5117'. Started air units and cleaned sand fill to 5260'. Circulated well.<br>SHUT DOWN |
| 4/9/2002 | Check well pressure. Csg - 550 psi. Blow well down. RIH with 12 jts. and tagged sand fill @ 5240'. Started Air Units and cleaned sand fill to 5385'. Circulated well to clean up.<br>SHUT DOWN |
| 4/10/2002 | Check well pressure. Csg - 450 psi. Blow well down. RIH with 16 jts. of 2 3/8" tubing. Tagged sand fill @ 5375'. Pulled up to 5197' and tested Cliffhouse/Menefee ( MV ) only. Tested thru 1/2" choke nipple. Tbg - 80 psi. Csg - 200 psi. MCFPD = 528. Oil - 0 BBLS. Water - 2 BBLS. NOTE: THIS IS FOR INFO ONLY, DO NOT USE FOR THE<br>C-104. THIS IS ONLY PART OF THE MESA VERDE FORMATION. RIH with 2 3/8" tubing and tagged Hallib Composite Plug @ 5400'. Drilled up Hallib Composite plug @ 5400'. Circulate well clean.<br>SHUT DOWN |