

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**

Lease Serial No.

SF 078149

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

6. 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.marberry@usa.conoco.com

8. Lease Name and Well No.  
SUTER 4B

3. Address P.O. BOX 2197 DU 3066  
HOUSTON, TX 77252

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

9. API Well No.  
30-045-30638

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

At surface NENW 855FNL 1845FWL

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 15 T32N R11W Mer NMP

12. County or Parish  
SAN JUAN

13. State  
NM

14. Date Spudded  
07/06/2001

15. Date T.D. Reached  
07/12/2001

16. Date Completed  
☐ D & A ☐ Ready to Prod.  
09/19/2001

17. Elevations (DF, KB, RT, GL)\*  
6505 GL

18. Total Depth: MD  
TVD 5845

19. Plug Back T.D.: MD  
TVD 5794

20. Depth Bridge Plug Set: MD  
TVD

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

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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12.250	9.625 J-55	36.0		298		139		0	
8.750	7.000 J-55	20.0		2593		335		0	
6.250	4.500 J-55	11.0		5794		268		2398	

**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	5604							

**25. Producing Intervals**

**26. Perforation Record**

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BLANCO MESAVERDE	4754	5497	4757 TO 5648			
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
5358 TO 5646	120,000 20/40 SAND & 901,200 SCF OF N2
5070 TO 5270	160,000 20/40 SAND & 920,000 SCF OF N2
4757 TO 5015	85,000 OF 20/40 SAND & 523,000 SCF OF N2

**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
09/19/2001	09/18/2001	24	→	0.5	1320.0	3.0			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	
	200	400.0	→					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 #7499 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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OFFICE

## 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.)

OTHER

## 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
OJO ALAMO	1791	1791		FRUITLAND FMA	2656
				KIRTLAND	2402
				LEWIS	3389
				MENEFEE	5148
				MSSV. CLIFFHOUSE	5065
				OJO ALAMO	1791
				PICTURED CLIFFS	3210
				POINT LOOKOUT	5497
				UPPER CLIFFHOUSE	4754

## 32. Additional remarks (include plugging procedure):

This well is a producing Blanco Mesaverde well. Attached is the daily summary for this well.

## 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 #7499 Verified by the BLM Well Information System.  
For CONOCO INC., sent to the Farmington  
Committed to AFMSS for processing by Lucy Bee on 10/02/2001 ()

Name (please print) DEBORAH MARBERRYTitle SUBMITTING CONTACT

Signature \_\_\_\_\_ (Electronic Submission)

Date 09/28/2001

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 fraudulent statements or representations as to any matter within its jurisdiction.

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## Daily Summary

API 300453063800	County SAN JUAN	State/Province NEW MEXICO	Surface Legal Location NMPM-32N-11W-15-C	NS Dist. (ft) 855.0	NS Flag N	EW Dist. (ft) 1845.0	EW Flag W
KB Elev (ft) 6518.00	Ground Elev (ft) 6505.00	Plug Back Total Depth (ftKB) 5,680.0	Spud Date 7/6/2001	Rig Release Date 7/12/2001	Latitude (DMS) 36° 59' 23.4816" N	Longitude (DMS) 107° 58' 42.7512" W	

Start	Ops This Rpt
7/16/2001	Rig up Expert, and run slickline to tag for fill. Tagged @ 5680'. Rigged down Expert slickline.
7/23/2001	Rig up Schlumberger mast truck and wireline. Ran TDT Log from 5784' to 1715'. Ran Gamma Ray log from 1715' to surface. Ran CBL Log from 5784' to 1950'. Ran log with 1500 psi on the casing. Estimated TOC @ 2150'. Rigged down Schlumberger wireline. Pressure tested casing to 4300 psi - OK.
8/16/2001	Rig up Blue Jet to perforate. Perforated the Lower Menefee and the Point Lookout ( MV ) @ 5646' - 5648' with 1/2 SPF Total holes 2. Perforated @ 5606' - 5608' with 1/2 SPF Total holes 2. Perforated @ 5590' - 5592' with 1/2 SPF Total holes 2. Perforated @ 5558' - 5560' with 1/2 SPF Total holes 2. Perforated @ 5545' - 5547' with 1/2 SPF Total holes 2. Perforated @ 5498' - 5514' with 1/2 SPF Total holes 9. Perforated @ 5402' - 5408' with 1/2 SPF Total holes 4. Perforated @ 5374' - 5378' with 1/2 SPF Total holes 3. Perforated @ 5358' - 5362' with 1/2 SPF Total holes 3. Perforated with 3 1/8" HSC with .34" hole size. Total holes 29. Rigged up Hallib to acidize. Pumped 1000 gals of 15% HCL Acid with 35 BioBalls. Pumped balls @ 20 BPM @ 2127 psi. Well balled off. Max pressure 3666 psi. ISIP - Vacuum. Rigged down Hallib. SHUT DOWN
8/17/2001	Rigged up Hallib to frac. Fraced the Point Lookout/ Lower Menefee ( MV ) with 120,000# of 20/40 Brady sand, with 901,200 SCF of N2. Pumped N2 @ 70Q. Avg rate 55 BPM @ 2800 psi avg pressure. Max pressure 2815 psi. Rigged up Blue Jet. Set Hallib Fas Drill Plug @ 5300'. Tested plug to 3500 psi. - OK. Rigged up Blue Jet to perforate. Perforated the Upper Menefee/Lower Cliffhouse ( MV ) @ 5264' - 5270' with 1/2 SPF Total holes 4. Perforated @ 5220' - 5226' with 1/2 SPF Total holes 4. Perforated @ 5200' - 5204' with 1/2 SPF Total holes 3. Perforated @ 5184' - 5192' with 1/2 SPF Total holes 5. Perforated @ 5138' - 5148' with 1/2 SPF Total holes 6. Perforated @ 5104' - 5118' with 1/2 SPF Total holes 8. Perforated @ 5090' - 5096' with 1/2 SPF Total holes 4. Perforated @ 5070' - 5078' with 1/2 SPF Total holes 5. Total holes for the U Menefee/ L Cliffhouse ( MV ). 39 holes. Rigged up Hallib to acidize. Acidized with 1000 gals of 15% HCL Acid with 48 ball sealers. Well balled off. Rigged up Blue Jet to run junk basket. Retrieved 48 balls with 38 hit's. Rigged up Hallib to frac. Fraced with 160,000# of 20/40 Brady sand with 920,000 SCF of N2. Avg rate 50 BPM @ 2900 psi avg pressure. Max sand conc 4#/ gal. Max pressure 3090 psi. ISIP - Vacuum. Rigged up Blue Jet. Set Hallib Fas Drill Plug @ 5040'. Tested plug to 3500 psi - OK. Perforated the Upper Cliffhouse @ 5013' - 5015' with 1 SPF Total holes 3. Perforated @ 5004' - 5006' with 1 SPF Total holes 3. Perforated @ 4962' - 4964' with 1 SPF Total holes 3. Perforated @ 4957' - 4959' with 1 SPF Total holes 3. Perforated @ 4916' - 4919' with 1 SPF Total holes 4. Perforated @ 4912' - 4914' with 1 SPF Total holes 3. Perforated @ 4866' - 4869' with 1 SPF Total holes 4. Perforated @ 4860' - 4863' with 1 SPF Total holes 4. Perforated @ 4757' - 4764' with 1 SPF Total holes 8. TOTAL HOLES 35. Rigged up Hallib to acidize. Acidized with 1000 gals of 15% HCL Acid with 42 BioBalls. Good ball action. ISIP - Vacuum. SHUT DOWN
8/18/2001	Rigged up Hallib to frac the Upper Cliffhouse ( MV ) Fraced with 85,000# of 20/40 Brady sand with 523,000 SCF of N2. Avg rate 55 BPM @ 2200 psi avg pressure. Max sand conc 4#/ Gal. Max pressure 2300 psi. ISIP - 1115 psi. 5 min. 913 psi. Rigged down Halliburton. SHUT DOWN
9/5/2001	Roaded rig to location. Rigged up. Spotted all equipment. Checked well pressure. Csg - 620 psi. Blow well down. Rigged up pump and pit. Killed well. ND Frac Valve and NUBOP. SHUT DOWN
9/6/2001	Check well pressures. Csg - 620 psi. Blow well down. Tested and charted BOP'S. Rigged up 2 drill gas compressors and Blowie Line. Finished rigging up all equipment. RIH with 110 jts of 2 3/8" tubing with mill. SHUT DOWN
9/7/2001	Had safety meeting. Blow well down. NU to unload well. Did startup on 2 drill gas compressors, and unloaded well. Continued to RIH to 4775'. Started 2 drill gas compressors and unloaded well. Well making heavy sand and fluid. Continued to blow well, was starting to clean up. SHUT DOWN
9/10/2001	Check well pressures. Csg - 250 psi. Blow down casing. Well still making sand and nitrogen. Continued to RIH tagged sand @ 4965'. Started 2 drill gas compressors and cleaned sand to 5030'. 1 drill gas compressor kept over heating. Called mechanic and pulled tubing back up above the perms. Started flowing the well up the tubing. Repaired compressor. SHUT DOWN
9/11/2001	Check well pressures. Tbg - 550 psi. Csg - 580 psi. Blow down well. RIH and tagged sand fill @ 5005'. Started 2 drill gas compressors and cleaned sand fill to plug @ 5030'. Blew well to clean up. Pulled tubing up to 4753'. Tested Upper Cliffhouse. Tbg - 60 psi. Csg - 250 psi. MCFPD = 396. 3 BBLS Water and 1/2 BBLS Oil. ( THIS IS A TEST FOR THE UPPER CLIFFHOUSE ONLY. DO NOT USE FOR C - 104 ) SHUT DOWN

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Start	Ops This Rpt
9/12/2001	Check well pressures. Csg - 520 psi. Blow well down. RIH and tagged sand fill @ 5010'. Rugged up power swivel and started 2 drill gas compressors and cleaned sand fill to plug @ 5030'. Drilled up Hallib Fas Drill Plug @ 5030'. Continued to RIH and tagged sand fill @ 5260'. Started 2 drill gas compressors and cleaned sand fill to plug @ 5300'. Pulled 2 3/8" tubing up to 4753'. Flowed well up the 2 3/8" tubing thru 1/2" choke nipple. Pressure not stabilized yet. SHUT DOWN
9/13/2001	Check well pressures. Tbg - 540 psi. Csg - 540 psi. With 2 3/8" tubing @ 4753', flowed well up the tubing thru 1/2" choke nipple. Tubing pressure stabilized. Tested the Cliffhouse/Menefee ( MV ) @ 528 MCFPD. with 3 BBLS of water and 1/2 BBL of oil. Bled down casing. RIH and tagged sand fill @ 5325'. Started 2 drill gas compressors and cleaned sand fill to Hallib Fas Drill Plug @ 5300'. Drilled up Hallib Fas Drill Plug @ 5300'. Continued to RIH and tagged sand fill @ 5750'. Started 2 drill gas compressors and cleaned to PBTD @ 5794'. Well still making sand. POOH to 4753'. NOTE: The above test is for the Cliffhouse/Menefee ( MV ) only do not use for C - 104. SHUT DOWN
9/14/2001	Check well pressures. Csg - 460 psi. Tbg - 460 psi. Blow down well. RIH and tagged sand fill @ 5720'. Started 2 drill gas compressors and cleaned sand fill to PBTD @ 5794'. Blow well to clean up. Pumped soap sweeps to allow well to clean up. Pull up above the perms. Flowed well. RIH and tagged sand fill @ 5695'. Started 2 drill gas compressors and cleaned sand fill to PBTD @ 5794'. Pulled up the hole to 4753'. SHUT DOWN
9/17/2001	Check well pressures. Csg - 460 psi. Blew well down. RIH and tagged sand fill @ 5610'. Started 2 drill gas compressors and cleaned sand fill to PBTD @ 5794'. Pulled up the hole to 4753'. NU to get test. SHUT DOWN
9/18/2001	Check well pressures. Csg - 460 psi. Opened well to flow up the tubing thru 1/2" choke nipple. Flowed well until the pressure stabilized. Well tested as follows. With the 2 3/8" tubing @ 4753' well flowing thru 1/2" choke nipple. TBG - 200 psi. Csg - 400 psi. MCFPD = 1320. Oil - 1/2 BBL Water - 3 BBLS. Test witnessed by Nick James with Key Energy. This is a test of all the combined zones of the Mesa Verde. Use this test for the C -104. Continue to RIH and tagged sand fill @ 5770'. Started 2 drill gas compressors and cleaned sand fill to PBTD @ 5794'. Pulled up above the perms. SHUT DOWN
9/19/2001	Check well pressures. Csg - 520 psi. Killed well. POOH with 2 3/8" tubing with mill. RIH with Mule Shoe Collar, SN and 2 3/8" tubing. Tagged for fill, no fill. Pulled up and landed 2 3/8" tubing @ 5604' with KB added in. Landed with 176 jts. NDBOP & NUWH. Rugged down equipment. Rugged down unit and moved to next location. FINAL REPORT