

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.  
NMSF078048

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other			6. If Indian, Allottee or Tribe Name		
b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other			7. Unit or CA Agreement Name and No.		
2. Name of Operator CONOCO INC			8. Lease Name and Well No. PORK CHOP FEDERAL 27 2E		
3. Address PO BOX 2197, DU 3084 HOUSTON, TX 77252-2197			9. API Well No. 30-039-26719-00-X1		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NWSE 1930FSL 1980FEL At top prod interval reported below At total depth			10. Field and Pool, or Exploratory BASIN DAKOTA		
14. Date Spudded 09/08/2001			15. Date T.D. Reached 09/17/2001		
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 11/15/2001			17. Elevations (DF, KB, RT, GL)* 6237 GL		
18. Total Depth: MD TVD 7089		19. Plug Back T.D.: MD TVD 7003		20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each)			22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> 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		503		300		0	
7.875	4.500 P-110	12.0		7087		1115		0	

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	6797							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) DAKOTA	6705	6797	6705 TO 6797			
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
6705 TO 6797	FRAC W/65 Q 25# LINEAR FOAM; 48,119# 20/40 SUPER L
6705 TO 6797	REFRAC W/SPRECTRA FRAC 3000; 42,601# 20/40 SUPER L

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
11/27/2001	11/15/2001	24	→	1.0	264.0	3.0			FLOWS FROM WELL
Choke Size	Tbg. Press Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
1/2"	SI	400.0	→					PGW	

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.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
	SI		→						

ACCEPTED FOR RECORD

DEC 3 2001

OFFICE

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

ELECTRONIC SUBMISSION #9358 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

\*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\*

AMOCB

5/20/12

## 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.)

SOLD

## 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 NACIMIENTO OJO ALAMO	0	460		OJO ALAMO	1510
	460	1540		KIRTLAND	1734
	1540	1712		FRUITLAND	1860
				PICTURED CLIFFS	2295
				MESAVERDE	2430
				CHACRA	3130
				CLIFF HOUSE	3876
				MENEFEE	3906
				POINT LOOKOUT	4515
				MANCOS	4873
				GALLUP	6176
				GREENHORN	6496
				DAKOTA	6559

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

This well has been completed as a single Dakota producer. Please refer to attached daily summary for more detailed information.

## 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 #9358 Verified by the BLM Well Information System.  
For CONOCO INC, sent to the Farmington  
Committed to AFMSS for processing by Lucy Bee on 11/30/2001 (02LXB0577SE)

Name (please print) YOLANDA PEREZTitle COORDINATOR

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

Date 11/27/2001

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.

**\*\* 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
300392671900	RIO ARRIBA	NEW MEXICO	NMPM-26N-7W-27-J	1930.0	S	1980.0	E
Ground Elev (ft)	Spud Date	Rig Release Date	Latitude (DMS)	Longitude (DMS)			
6237.00	9/8/2001	9/20/2001	36° 27' 21.0312" N	107° 33' 37.224" W			

Start	Ops This Rpt
10/13/2001	HELD SAFETY MEETING. MIRU
10/16/2001	HELD SAFETY MEETING. OPENED UP WELL. CSG PRESSURE 0 #. NDWH - NUBOP. TESTED BOP TO 250 # & 5000 # BOTH PIPE & BLIND RAMS. HELD OK. RIH W/ 3 7/8" BIT ON 2 3/8" TBG TO 3651'. DRILLED OUT DVT @ 3651'. RIH TO 7003' PBTD. SWION
10/17/2001	HELD SAFETY MEETING. OPENED UP WELL. CIRCULATED WELL CLEAN W/ 2% KCL WATER. POOH W/ 3 7/8" BIT & 2 3/8" TBG. LAYED TBG DOWN ON FLOAT. NDBOP - NU FRAC VALVE. TESTED 4 1/2" CSG TO 5000 #. HELD OK. SWI. RDMO
10/24/2001	HELD SAFETY MEETING. RU BLUE JET. RAN GR/CCL LOG FROM 7003 TO 6500'. POOH W/ LOGGING TOOL. PERFORATED THE DAKOTA. RIH W/ 3 1/8" 120 DEGREE PP SELECT FIRE PERFORATING GUN. PERFORATED FROM 6705' - 6717' W/ 1/2 SPF, 6728' - 6734' W/ 1/2 SPF, 6738' - 6740' W/ 1/2 SPF, 6747' - 6751' W/ 1/2 SPF, 6758' - 6766' W/ 1/2 SPF, 6772' - 6778' W/ 1/2 SPF, 6789' - 6797' W/ 1 SPF. A TOTAL OF 34 HOLES. SWI. RD BLUE JET.
10/25/2001	HELD SAFETY MEETING. RU HOT OILIER. HEATED FRAC WATER.
10/26/2001	HELD SAFETY MEETING. RU BJ SERVICES. FRAC'D THE DAKOTA. TESTED LINES TO 5500 #. SET POP OFF @ 4500 #. BROKE DOWN FORMATION @ 20 BPM @ 3950 #. DROPPED 24 BALL SEALERS IN 1000 GALS OF 15% HCL ACID @ 1 BALL PER BBL & 2 BALLS PER BBL FOR THE REMAINING 17 BALL SEALERS @ 20 BPM @ 3371 #. A TOTAL OF 41 BALL SEALERS. GOOD BALL ACTION. BALLED OFF @ 4500 #. RU BLUE JET. RIH W/ JUNK BASKET. RETRIEVED 41 BALL SEALERS. PUMPED PRE-PAD @ 29 BPM @ 4162 #. STEPPED DOWN RATE TO 19 BPM @ 3048 #. STEPPED DOWN RATE TO 10 BPM @ 2418 #. STEPPED DOWN RATE TO 5 BPM @ 2211 #. ISIP 2150 # - 5 MIN 1904 # - 10 MIN 1823 # - 15 MIN 1773 # - 20 MIN 1728 # - 25 MIN 1691 # - 30 MIN 1651 #. BEGIN PUMPING LEAK-OFF DIAGNOSTIC TEST W/ 65 Q 25 # LINEAR FOAM. PUMPED 100 BBLS & DISPLACED W/ 104 BBLS 2% KCL WATER TO TOP PERFS. ISIP 2100 # - 5 MIN 1861 # - 10 MIN 1826 # - 15 MIN 1793 # - 20 MIN 1763 # - 25 MIN 1736 # - 30 MIN 1709 #. FRAC'D THE DAKOTA W/ 65 Q 25 # LINEAR FOAM; 48,119 # 20/40 SUPER LC SAND; 68,040 SCF N2; 1112 BBLS FLUID. WELL SCREENED OUT W/ 35% OF FRAC IN FORMATION. AVG RATE 35 BPM. AVG PRESSURE 4300 #. MAX PRESSURE 4450 #. MAX SAND CONS 4 # PER GAL. FRAC GRADIENT .74. SWI. RD BJ SERVICES.
11/2/2001	HELD SAFETY MEETING. MIRU. OPENED UP WELL. CSG PRESSURE 3000 #. KILLED WELL. ND FRAC VALVE - NU BOP. TESTED BOP TO 250 # & 5000 #. BOTH PIPE & BLIND RAMS. HELD OK. INSTALLED BLOOEY LINE. RIH W/ 2 3/8" TBG. TAGGED SAND @ 4300'. 2700' OF FILL. PUH TO 4000'. SWION.
11/5/2001	HELD SAFETY MEETING. OPENED UP WELL. CSG PRESSURE 2000 #. RIH W/ 2 3/8" TBG. TAGGED SAND @ 4300'. 2700' OF FILL. RU DRILL AIR. CLEANED OUT FROM 4300' TO 5000'. CIRCULATED HOLE W/ DRILL AIR. PUH TO 4800'. SWION.
11/6/2001	HELD SAFETY MEETING. OPENED UP WELL. CSG PRESSURE 1000 #. RIH W/ 2 3/8" TBG. TAGGED SAND @ 5000'. 2000' FILL. RU DRILL AIR. CLEANED OUT FROM 5000' TO 5700'. CIRCULATED HOLE W/ DRILL AIR. PUH TO 5500'. SWION.
11/7/2001	HELD SAFETY MEETING. OPENED UP WELL. CSG PRESSURE 1000 #. RIH W/ 2 3/8" TBG. TAGGED SAND @ 5700'. 1300' FILL. RU DRILL AIR. CLEANED OUT FROM 5700' TO 6400'. CIRCULATED HOLE W/ DRILL AIR. PUH TO 6200'. SWION.
11/8/2001	HELD SAFETY MEETING. OPENED UP WELL. CSG PRESSURE 1000 #. RIH W/ 2 3/8" TBG. TAGGED SAND @ 6400'. 600' FILL. RU DRILL AIR. CLEANED OUT FROM 6400' TO 7003' PBTD. CIRCULATED HOLE CLEAN W/ DRILL AIR. POOH W/ 2 3/8" TBG. SWION.
11/9/2001	HELD SAFETY MEETING. OPENED UP WELL. CSG PRESSURE 1500 #. RU BJ SERVICES. REFRAC'D THE DAKOTA. TESTED LINES TO 5500 #. SET POP OFF @ 4580 #. PUMPED 1000 GALS 15% HCL ACID @ 5 BPM @ 4300 #. PUMPED PRE PAD @ 14 BPM @ 4250 #. FRAC'D THE DAKOTA W/ SPECTRA FRAC 3000, 42,601 # 20/40 SUPER LC SAND, 1423 BBLS FLUID, AVG RATE 22 BPM, AVG PRESSURE 4280 #, MAXIMUM PRESSURE 4486 #, MAXIMUM SAND CONS 3 # PER GAL. ISIP 3000 #. FRAC GRADIENT .76. SWION. RD BJ SERVICES.
11/10/2001	HELD SAFETY MEETING. OPENED UP WELL. CSG PRESSURE 2150 #. KILLED WELL. RIH W/ 2 3/8" TBG TO 3500'. SWION.
11/12/2001	HELD SAFETY MEETING. OPENED UP WELL. CSG PRESSURE 100 #. RIH W/ 2 3/8" TBG TO 3500'. UNLOADED WELL W/ DRILL AIR. RIH TO 5800'. UNLOADED WELL W/ DRILL AIR. CIRCULATED WELL W/ DRILL. WELL MAKING 9 BBLS WATER PER HR & 1/2 GAL SAND PER HR. SWION.
11/13/2001	HELD SAFETY MEETING. OPENED UP WELL. CSG PRESSURE 600 #. RIH W/ 2 3/8" TBG. TAGGED SAND @ 6600'. 400' OF FILL. RU DRILL AIR. CLEANED OUT FROM 6600' TO 6800'. CIRCULATED HOLE W/ DRILL AIR. WELL MAKING 4 BBLS WATER PER HR & 1 QUART SAND PER HR. PUH TO 6650'. SWION.
11/14/2001	HELD SAFETY MEETING. OPENED UP WELL. CSG PRESSURE 800 #. RIH W/ 2 3/8" TBG. TAGGED SAND @ 6780'. 220' OF FILL. RU DRILL AIR. CLEANED OUT FROM 6780' TO 7003' - PBTD. CIRCULATED WELL CLEAN W/ DRILL AIR. WELL MAKING 2 BBL WATER PER HR & 1/2 CUP SAND PER HR. PUH TO 6650'. SWION.
11/15/2001	HELD SAFETY MEETING. OPENED UP WELL. CSG PRESSURE 1300 #. RIH W/ 2 3/8" TBG. TAGGED @ 7003" - PBTD. NO FILL. RU DRILL AIR. CIRCULATED WELL CLEAN W/ DRILL AIR. PUH TO 6767' W/ TBG. TESTED THE DAKOTA THROUGH 1/2" CHOKE & UP 2 3/8" TBG @ 6767'. WELL STABILIZED @ 40 #. TESTED WELL 4 HRS AFTER WELL STABILIZED. TBG PRESSURE 40 #. CSG PRESSURE 400 #. 264 MCFPD. 1 BOPD. 3 BWPD. DAKOTA PERFS @ 6705' - 6797'. TEST WITNESSED BY SAM MCFADDEN & NOE PARRA. LANDED 214 JTS OF 2 3/8" TBG @ 6767' W/ SEAT NIPPLE & MULESHOE. RU SANDLINE. RIH W/ 1.901" DRIFT TO SEAT NIPPLE. NDBOP. NUWH. RDMO. FINAL REPORT