

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTSUBMIT IN DUPLICATE \*  
(See other in-  
structions on  
reverse side)FORM APPROVED  
OMB NO. 1004-0137  
Expires: February 28, 1995

COPY

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>						5. LEASE DESIGNATION AND SERIAL NO. SF 079294	
b. TYPE OF COMPLETION: NEW WORK DEEP- DIFF. WELL <input type="checkbox"/> OVER <input type="checkbox"/> EN <input type="checkbox"/> RESVR. <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>						6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR CONOCO INC.						7. UNIT AGREEMENT NAME San Juan 28-7 Unit	
3. ADDRESS OF OPERATOR P.O. Box 2197, DU 3066, Houston, TX 77252-2197 (281) 293-1613						8. FARM OR LEASE NAME, WELL NO. San Juan 28-7 Unit #10	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) * At surface 990' FSL & 1120' FWL, UNIT LETTER " M" At top prod. Interval reported below At total depth						9. API WELL NO. 30-039-07223	
14. PERMIT NO.						10. FIELD AND POOL, OR WILDCAT Basin Friutland Coal	
DATE ISSUED						11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 36, T28N-R7W	
15. DATE SPUDDED 8-23-53		16. DATE T D REACHED		17. DATE COMPL. (Ready to prod.) 11-19-99		12. COUNTY OR PARISH Rio Arriba County	
18. ELEV. (DF, RKB, RT, GR, ETC) * 6119' DF		19. ELEV. CASINGHEAD		13. STATE NM			
20. TOTAL DEPTH, MD & TVD 5105'		21. PLUG. BACK T.D. MD. & TVD 2882'		22. IF MULTIPLE COMPL. HOW MANY *		23. INTERVALS DRILLED BY ROTARY CABLE TOOLS <input checked="" type="checkbox"/> TOOLS <input type="checkbox"/>	
24. PRODUCING INTERVAL(S) OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD) * 2563' - 2754' Basin Fruitland Coal						25. WAS DIRECTIONAL SURVEY MADE	
26. TYPE ELECTRIC AND OTHER LOGS RUN (2) Cement Bond Logs and Casing Inspection MMT/40ARM Caliper.						27. WAS WELL CORED	
28. CASING RECORD (Report all strings set in well)							
CASING SIZE/GRADE		WEIGHT, LB/FT		DEPTH SET (MD)		HOLE SIZE	
10 3/4"		36#		211'		12 1/2"	
7"		23#		4331'		8 3/4"	
29. LINER RECORD							
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT *	
30. TUBING RECORD							
SIZE		DEPTH SET (MD)		PACKER SET (MD)			
2 3/8"		2639'					
31. PERFORATION RECORD (Interval, size and number)							
See attached summary.							
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.							
DEPTH INTERVAL (MD)				AMOUNT OF MATERIAL USED			
				ENTERED			
				AFMSS			
				DEC 13 1999			
33. PRODUCTION							
DATE FIRST PRODUCTION 11-19-99		PRODUCTION METHOD (Flowing, gas lift, pumping - size, and type of pump) Flowing				WELL STATUS (Producing or shut-in) Producing DHC#2370	
DATE OF TEST 11-15-99		HOURS TESTED 24 hrs.		CHOKE SIZE 1/2"		PROD'N FOR TEST PERIOD	
FLOW TUBING PRESS 60#		CASING PRESSURE C		CALCULATED 24 - HR RATE		OIL - BBL 0	
						GAS - MCF 396 MCFPD	
						WATER - BBL 4 bbls	
						GAS - OIL RATIO	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) V							
35. LIST OF ATTACHMENTS Summary							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
SIGNED <u>Verla Johnson</u> BY <u>Verla Johnson</u> TITLE <u>Verla Johnson, As Agent for Conoco Inc.</u> DATE <u>11-24-99</u>							

ACCEPTED FOR RECORD

DEC 13 1999

FARMINGTON DISTRICT OFFICE

NM000

CONOCO INC.  
**San Juan 28-7 Unit #10**  
API #30-039-07223  
990' FSL & 1120' FWL, UNIT LETTER "M"  
Sec. 36, T28N-R7W

**10/28/99** Road rig to location. Rig up spot all equipment. Rig up pump & pit. Check wellhead pressures. Tbg - 160 psi and Csg - 160 psi. Blow well down. NDWH & NUBOP. Rig up to pull 2 3/8" tubing. Tubing is stuck. Rigged up Weatherford Freepoint. RIH with freepoint tool. Could only run tool to 2340'. POOH and pumped 15 BBLS water. RIH with sinker bars, tagged obstruction @ 2365'. Rigged down Weatherford wireline. From impression on sinker bars, looked like something flat, possible plunger stop that may have moved up the hole. Scheduled Expert slickline to try and fish obstruction.

**10/29/99** Rigged up Expert Wireline services. Fished Collar set Plunger Stop @ 2365'. NOTE: ACCORDING TO WELL RECORDS PLUNGER STOP SET @ 4795'. STOP HAD MOVED UP THE HOLE TO 2365'. STOP HAD MOVED UP THE HOLE 2430'. Rigged up Weatherford freepoint tool. Set tool @ 4580'. Tubing was stuck, pulled up the hole and found tubing free @ 4412'. Cut 2 3/8" tubing 4390'. POOH with 2 3/8" tubing. Total tubing 141 jts. plus cut off piece. End of 7" casing @ 4331'. RIH with 2 3/8" tubing and 7" casing scrapper. Run scrapper to 4277'. POOH with 2 3/8" tubing and 7" casing scrapper.

**11/1/99** Talked with Steve Mason @ BLM about leaving tubing stuck in the open hole, it was approved by Steve Mason 10/29/99. I also discussed our P & A plans for the MV, everything OK by the BLM 10/29/99. I also left a message at the BLM giving the time that plugs and cement were to be pumped on 11/1/99. RIH with 2 3/8" tubing and Hallib 7" CIBP, Set CIBP @ 4278'. Released setting tool. Started loading hole with KCL water, just about the time the hole was about to load; the casing went on a vacuum. Went back to try and tag the plug, the plug went down the hole. Rigged up Blue Jet wireline and set Hallib 7" wireline set CIBP @ 4282'. RIH with dump baler, and dumped baled 5' of cement on top of CIBP. Will let cement set thru the night and spot the rest of the cement with tubing tomorrow. Notified BLM @ 599-8907 left message @ 3 PM 11/1/99. Notified about cement plug job.

**11/2/99** RIH with open ended 2 3/8" tubing. Tagged TOC @ 4275'. Rigged up BJ to pump cement plug. Pumped 5.5 bbls cement slurry. Pumped @ 14.5 ppg. Total cement pumped 22 sks Type 3. Total cement plug 150'. Casing was full and circulated the entire job. POOH with 2 3/8" tubing. Tested casing to 500 psi. OK. Rigged up Blue Jet ran Gamma Ray/ CCL/ CBL log from 3050' to 2000'. Ran CBL log with 500 psi on casing. TOC at approx 2930'. Log indicates tight spots @ approx 2395' and 2000'. Craig Moody talked to Jim Lovato @ BLM about changing procedure, ALL CHANGES APPROVED BY JIM LAVATA WITH BLM 11/2/99 @ 2PM. 599-6367. Rigged up Blue Jet, set wireline set CIBP @ 3130'. Rigged down Blue Jet. RIH with 2 3/8" tubing. Rigged up BJ. Spotted 100' cement plug on top of CIBP. Pumped 4 bbls of type 3 cement mixed @ 14.5 ppg. Total cement 16 sks. POOH with 2 3/8" tubing.

**11/3/99** Rig up Blue Jet, Perf squeeze holes @ 2900' 4 shots, and 4 shots @ 2430'. Rig down Blue Jet. RIH with 2 3/8" tbg and Hallib 7" cement retainer. Set retainer @ 2887'. Rig up BJ to squeeze. Establish rate down tubing, @ 2.3 BPM @ 1445 psi. Well DID NOT CIRCULATE. Pumped 105 sks Class H with fluid loss and cello flakes. Pumped cement @ 15.6 ppg. Displaced to retainer. Stung out of retainer. POOH with 2 3/8" tubing and Hallib setting tool. No indication that cement came around to the top holes.

**11/4/99** Pumped on Csg. Casing would not hold pressure, pressure to 500 psi and would lose approx 100 psi in 30 minutes. RIH with 2 3/8" tubing, 6 3/4" bit and 7" casing scrapper. Tagged cement @ 2867'. Drilled cement to 2882'. RIH with 7" Hallib R - 4 packer and 2 3/8" tubing. Set packer @ 2420' and tested casing to 1000 psi - OK. Perfs @ 2430' leaking pumped in @ 1.5 BPM @ 900 psi. Trigon notified BLM @ 599-8907 @ approx 3: 00 PM 11/4/99, about squeeze cement procedure. Pulled up and set packer @ 2168'. Rigged up BJ and squeezed with 50 sks Class H with fluid loss, mixed @ 15.6 PPG. Pumped @ 1 BPM @ 130 psi, pressure increased to approx 1000 psi. Hesitated on squeeze. Displaced to within 50' from top of hole. Shut in with 900 psi on tubing. Rigged down BJ.

**11/5/99** Released and POOH with 7" Hallib R-4 Packer set @ 2172', and 2 3/8" tubing. RIH with 6 3/4" bit and 2 3/8" tubing. Tagged top of cement @ 2385' drilled cement to 2415'. Cement not real hard, only 15 hrs since squeeze job. Circulate Clean.

**11/8/99** Drilled cement from 2415' to 2475'. Drilled out of cement. Tested casing to 700 psi for 30 minutes. Continue to RIH to 2882'. Circulate hole clean. POOH with 2 3/8" tubing with 6 3/4" bit. Rig up Blue Jet and run CBL Gamma Ray log from 2876' to 50'. TOC @ 200'. Ran CBL log with 500 psi on casing. Perf PC zone with 4 spf @ 2828'-27-25-25-24-23-22-21-20-19-18-17-16-15-14-2813 & 2785-84-83-82-81-80-79-78-77-76-75-2774. All shots 4 spf Total holes 104. Hole size .34" with 14-gram charge.

**San Juan 28-7 Unit #10**

API #30-039-07223

990' FSL &amp; 1120' FWL, UNIT LETTER "M"

Sec. 36, T28N-R7W

**11/9/99** Check well, no pressure. RIH with 7" casing scrapper and 2 3/8" tubing. Run scrapper to 2800'. POCH with 2 3/8" tubing and 7" casing scrapper. Change equipment to 3 1/2". Spot float with frac string. Tally and RIH with 3 1/2" frac string and Hallib 7" RTTS packer. Ran total of 82 jts 3 1/2" tubing. Set packer @ 2633'. Heated frac tanks to 80 degrees.

**11/10/99** Pressure backside to 400 psi. Rig up BJ to acidize and frac. Took rate down tubing, @ 7.7 BPM @ 2600 psi. Bullhead 750 gals of 15% HCL Acid @ 3.5BPM @ 1677 psi. Fraced PC zone with 65,000 # of 20/40 AZ sand with 30,257 gals 30#, 70Q Foam. Total N2 pumped 360,000 scf. Avg pressure 3150 psi @ 30 bpm avg rate. Max pressure 3368 psi. Max sand conc 4 #/ gal. ISIP 2020 psi. 15 min. 1368 psi. Rig down BJ. Started flowing well back with 1/4" choke nipple. Will flow back and test thru the night.

**11/11/99** Flowed well thru the night. Flowed well thru 1/4" choke nipple. Avg flowing pressure 650 psi. Installed 1/2" choke nipple. Pressure stabilized @ 150 psi. Tested well as follows: 3 1/2" tubing @ 2633'. MCFPD = 990. Water = 10 bbls. 0 - oil. Tubing pressure 150 psi. Casing pressure 0 psi. (HAS A PACKER). Test witnessed by Victor Barrios with Key Well Service. Released Hallib 7" RTTS packer and POOH with 3 1/2" tubing and packer. Rig up Blue Jet. RIH and set Hallib 7" Fas Drill Plug @ 2764' KB. RIH and perf FC zone @ 2754 - 42, 2728 - 22, 2663 - 58, 2653 - 48, 2643 - 39, 2637 - 34, 2629 - 26, 2576 - 73, 2567 - 63. Shot with 4 spf. Total holes 180. Hole size .32", 11 gram charge. RIH with 3 1/2" frac string with Hallib. 7" packer. Set packer @ 2507'.

**11/12/99** Rig up BJ to frac well. With 3 1/2" frac string and Hallib. 7" packer set @ 2507'. Acidized well with 750 gals of 15% HCL acid. Acid was bullheaded ahead of frac. Rate on acid 3 bpm @ 1211 psi. Fraced well with 115,780 # of 20/40 AZ sand. Total fluid pumped 383 bbls of 30# 70 Q foam. Fraced well @ 3350 psi avg pressure @ 40 bpm avg rate. Max pressure 4050 psi. Max sand conc 5# / gal. Total N2 pumped 644,000 scf. ISIP - 2350 psi. 15 min - 1408 psi. Rig down BJ. Started flowing well thru 1/4" choke nipple. Will drywatch and flow well thru the night.

**11/13/99** Well still flowing thru 1/4" choke nipple. Tbg pressure stabilized @ 60 psi. Well cleaned up and quit flowing sand. Csg pressure 0 psi, well has a packer. SHUT WELL IN @ 5:00 PM 11/13/99.

**11/15/99** Opened well up and tested well thru 1/2" choke nipple. With 3 1/2" tubing and packer @ 2507'. Tubing pressure stabilized @ 60 psi, with 0 psi casing pressure. (HAS A PACKER). Tested FC Zone @ 396 MCFPD with 4 bbls of water and 0 bbls of oil. Test witnessed by Victor Barrios with Key Well Service. Released and pulled 3 1/2" frac string with Hallib 7" packer. Laid down all 3 1/2" frac string. Started to RIH with 2 3/8" tbg with 7" Baker Metal Muncher Mill.

**11/16/99** Check well pressures, 1000 psi. Blow well down; continue to RIH with 2 3/8" tubing with Baker Metal Muncher Mill. Tagged sand @ 2740', rigged up power swivel, and BJ Nitrogen. Cleaned sand to Hallib Fas Drill Plug @ 2764'. Drilled up Hallib Fas Drill Plug @ 2764'. Continued in hole to 2784'. Well making heavy sand and water. Pulled up to 2161' KB. Will Rig up Blowie Line.

**11/17/99** Rig up Blowie Lines to continue to allow well to clean up. RIH with 2 3/8" tubing with Baker Metal Muncher Mill. Tagged sand @ 2784'. Rigged up BJ Nitrogen. Cleaned sand from 2784' to PBTD @ 2882'. Pumped 2 soap sweeps to allow well to clean up. Pulled tubing above perfs.

**11/18/99** Check wellhead pressures. Csg - 820 psi. POOH with 2 3/8" tubing with Baker Metal Muncher Mill. RIH with Mule Shoe Collar, SN and 2 3/8" tubing. Tagged fill @ 2872' for 10' of fill. Pulled up to 2668'. Flowed well up the tubing, to allow well to clean up. Flowed well thru the night with 1/2" choke nipple.

**11/19/99** Well flowed thru the night with 1/2" choke nipple. With 2 3/8" tubing @ 2670' tubing pressure stabilized @ 170 psi. Csg - pressure 220 psi. MCFPD = 1122. Water - 7 bbls. Oil - 0 bbls. Test witnessed by Victor Barrios with Key Well Service. This flow rate is for the FC & PC zones combined. Run in hole to tag for fill. Tagged fill @ 2869'. Bottom perf @ 2828'. Pulled up and landed 2 3/8" tubing @ 2639' with KB added in. Total 2 3/8" tubing 85 jts. Seating nipple & Mule Shoe Collar on bottom. NDBOP & NUWH. Rig down and move off location. FINAL REPORT