

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE
(See other instructions on reverse side)

FORM APPROVED
OMB NO. 1004-0137
Expires: February 28, 1995

RECEIVED

WELL COMPLETION OR RECOMPLETION REPORT AND LOG BLM				5. LEASE DESIGNATION AND SERIAL NO. SF 078972	
1a. TYPE OF WELL OIL WELL ☐ GAS WELL ☒ OTHER ☐				6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
b. TYPE OF COMPLETION: NEW WORK DEEP- DIFF. RESVR. OTHER WELL ☒ OVER ☐ EN ☐ RESVR. ☐ OTHER ☐				7. UNIT AGREEMENT NAME SAN JUAN 28-7 UNIT	
2. NAME OF OPERATOR CONOCO INC.				8. FARM OR LEASE NAME, WELL NO. #145M	
3. ADDRESS OF OPERATOR 10 Desta Drive, Ste. 100W Midland, Texas 79705-4500 (915) 686-5424				9. API WELL NO. 30-039-25823	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) * At surface 790' FNL & 300' FWL, UNIT LETTER 'D' At top prod. Interval reported below At total depth 880'				10. FIELD AND POOL, OR WILDCAT BASIN DAKOTA	
14. PERMIT NO.				12. COUNTY OR PARISH RIO ARriba COUNTY	
DATE ISSUED				13. STATE NM	
15. DATE SPUDDED 05/08/98		16. DATE T.D. REACHED 05/17/98		17. DATE COMPL. (Ready to prod.) 06/08/98	
18. ELEV. (DF, RKB, RT, GR, ETC) * 6712'		19. ELEV. CASINGHEAD			
20. TOTAL DEPTH, MD & TVD 7755'		21. PLUG, BACK T.D. MD. & TVD 7750'		22. IF MULTIPLE COMPLETIONS, HOW MANY? 1	
23. INTERVALS DRILLED BY ROTARY CABLE TOOLS ☒ TOOLS ☐				24. PRODUCING INTERVAL(S) OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD) * 7530' - 7725' BASIN DAKOTA	
25. TYPE ELECTRIC AND OTHER LOGS RUN				26. WAS DIRECTIONAL SURVEY MADE	
27. WAS WELL CORED					
28. CASING RECORD (Report all strings set in well)					
CASING SIZE/GRADE	WEIGHT, LB/FT	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
9-5/8"	36#	250' 286	12-1/4"	200 145 SXS	
7"	23#	3549'	8-3/4"	510 465 SXS	
4-1/2"	9.5#	7755'	6-1/4"	530 SXS	
29. LINER RECORD			30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT *	SCREEN (MD)	SIZE
					2-3/8"
					4924' (TEST)
					7610' (FINAL)
31. PERFORATION RECORD (Interval, size and number)			32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.		
SEE ATTACHED SUMMARY			DEPTH INTERVAL (MD)		
			AMOUNT AND KIND OF MATERIAL USED		
33. * PRODUCTION					
DATE FIRST PRODUCTION 06/08/98		PRODUCTION METHOD (Flowing, gas lift, pumping - size, and type of pump) FLOWING			WELL STATUS (Producing or shut-in) PRODUCING
DATE OF TEST 06/08/98	HOURS TESTED 24 HRS	CHOKE SIZE 1/2"	PROD'N FOR TEST PERIOD	OIL - BBL 1	GAS - MCF 396 MCFPD
WATER - BBL 10	GAS - OIL RATIO				
FLOW. TUBING PRESS 60#	CASING PRESSURE 580#	CALCULATED 24 - HR RATE	OIL - BBL 1	GAS - MCF 396 MCFPD	WATER - BBL 10
OIL GRAVITY - API (CORR)					
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) VENTED					
35. LIST OF ATTACHMENTS SUMMARY, WELL LOGS					
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records					
SIGNED <u>Sylvia Johnson</u>		TITLE <u>SYLVIA JOHNSON, As Agent for Conoco Inc.</u>		DATE <u>06/09/98</u>	

* (See Instructions and Spaces for Additional Data on Reverse Side) Title 18 U.S.C. Section 1001, makes 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.

NMOCD

ACCEPTED FOR RECORD
JUN 14 1998
VICTOR BARRIOS, FLINT ENGINEERING

FARMINGTON DISTRICT OFFICE

37. SUMMARY OF POROUS ZONES: (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):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
			SAN JUAN 28-7 #145M

38.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Ojo Alamo	2375'	
Kirtland	2566'	
Fruitland fma	2844'	
Pictured Cliffs	3244'	
Lewis	3394'	
Chacra	4210'	
Cliffhouse	4924'	
Menefee	5028'	
Point Lookout	5504'	
Mancos	5886'	
Gallup	6668'	
Greenhorn	7412'	
Graneros	7476'	
Dakota	7530'	

CONOCO, INC.
SAN JUAN 28-7 UNIT #145M
API#: 30-039-25823
790' FNL & 990' FWL, UNIT LETTER 'D'
SEC. 10, T-27-N, R-07-W

COPY

- 05/26/98 MIRU, spot equipment, NUBOP.
- 05/27/98 PU, tally & TIH w/ bit & tbg tag cmt @ 7597', DO cmt to FC @ 7722', DO FC & cont. drilling cmt to 7750', circ. hole clean w/1% KCl, load annulus w/30 bbls 1% KCl test to 500# OK, test 4-1/2" csg to 4300# OK, TOOH w/246 jts 2-3/8" tbg & bit, RU WL run TDT LOG FROM 7750' - 2300', RD WL..
- 05/28/98 RU BJ WL, run GR/CCL correlation from 7750'-4500', collar depth are 10' deep in relation to where the float collar is in this well. Perfed on depth in DK w/ 30 shots @ 7530-33-36-39-42-45-48-51-54-7619-21-43-46-52-55-58-61-74-76-80-87-89-98-7700-02-10-13-23-7725, press to 2000# during perf, perfs BD @ 2000# pumped into @ 1 BPM, RU BJ acidize DK perfs w/500G 15% HCl w/45 balls @ 12 BPM max. 4240#, avg. 2300#, good ball action, balled off, surged balls, ISIP 1890#, TIH w/JB ret 37 of 45 balls, 24 hits. Start frac pad w/238 bbls 15# XL gel, 1 frac pump on treating line started excessive vibration, slowed all pumps to isolate & remove failed pump from line. Frac w/ 4 pump and pumped 80 bbls of 1#/gal sand & press up to 5150#, exceeded max. press before off line, pumped 140 bbls 1% KCl @ 2.5 BPM 3300# to clear perfs, TIH w/JB to tag sand @ 7538'. Did not recover any debris in JB, checked line & found broken valve & seat parts in suction & discharge lines from failed frac pump. ND BJ, ND frac valve & "Y", TIH w/2-3/8" tbg, tag fill @ 7725', rev circ. hole clean to PBD @ 7750'. PU tbg to 7720', NU BJ acid pump, spot 2.5 bbls 15% HCl displace to EOT w/29.5 bbls 1% KCl, PU tbg to 6520', pump 500 G 1% KCl w/45 ball sealers @ 6 BPM avg. 2500#, max. 4200#, good ball action, balled off, surged off balls, ISIP 1800#, flowed back 12 bbls 1% KCl before ND BJ, TOOH w/tbg, NU frac valve & "Y".
- 05/29/98 RIH, ret 44 balls w/ 22 hits, RU BJ, fraced DK w/112,227# of 20/40 Ottawa sand & 15,850# of 20/40 SDC sand. Treated @ 3300 psi avg. press, @ 44.5 BPM avg. rate. Max. press 3900 psi max. sand conc. 4#/gal total fluid pumped 103,740 gals of 15# X-Link gel. ISIP 2950 psi. RIH w/Fas drill plug, set @ 5800'. Tested plug to 3000 psi-OK. RIH perf Point Lookout (MV) @ 5496-98-5505-10-13-16-19-22-25-28-36-38-43-54-56-60-64-71-73-81-83-86-96-5601-04-07-10-36-38. Total holes 29, acidize w/500 gals 15% HCl acid w/43 ball sealers. Ret 42 ball w/22 hits. Fraced Point Lookout (MV) w/72,800# of 20/40 AZ sand & 7029# of 20/40 SDC sand. Avg. inj rate 45 BPM @ 650 psi avg. press. Max press 988 psi. max. sand conc. 3#/gal. Total fluid pumped 81,900 gals of 15# X-link gel, ISIP vacuum, set Drill plug @ 5470'. Tested plug to 3000 psi-OK. Perf Menefee @ 5123-25-69-71-97-99-5235-38-41-81-84-87-5309-17-20-23-39-43-47-51-55-59-91-93-5415-17-21-23-27-29. Total holes 30, acidized Menefee w/500 gals 15% HCl acid w/45 ball sealer. Avg. rate 14.5 BPM @ 1800 psi avg. press. Max press 3250 psi ISIP 850 psi. Ret 45 ball w/25 hits. Fraced Menefee w/70,953# of 20/40 AZ sand & 7,840# of 20/40 SDC sand avg. press 2000 psi, & avg. inj rate 44 BPM, max. press 2621 psi, max. sand conc. 2.5#/gal. Total fluid pumped 59,220 gals of 15# X-link gel, ISIP 950 psi, set drill plug @ 5100', & tested plug to 3000 psi-OK, perf Cliffhouse @ 4925-27-32-62-65-67-73-79-81-83-85-87-94-5001-03-05-07-09-21-23-35. Total holes 21, acidized Cliffhouse w/500 gals of 15% HCl acid w/33 ball sealers @ 12 BPM avg. rate @ 1800 psi avg. press. Max press 3800 psi. Well balled off, ISIP 950 psi, ret 33 ball w/18 hits. Fraced cliffhouse w/67,779# of 20/40 AZ sand & 7,840# of 20/40 SDC sand @ 2300 psi avg. press & 40 BPM avg. rate. Max press 2850 psi, max. sand conc. 2.5#/gal total fluid pumped 60,060 gals of 15# X-link gel ISIP - 575 psi.
- 06/01/98 RIH w/2-3/8" tbg, tagged sand @ 4926', w/155 jts of tbg, start up gas comp, clean sand to drill plug @ 5100', well still making heavy sand & fluid, PU to 4670'.
- 06/02/98 RIH & tag sand @ 5320', unload well & clean sand to plug @ 5470'. DU plug @ 5470', cont. in hole & tag sand @ 5608', clean sand to Drill plug @ 5800', sweeps to clean sand, pull back up to 4920'.
- 06/03/98 **Open well up & start flowing to clean up w/2-3/8" tbg @ 4921' test MV formation thru 1/2" choke, TP 160 psi, CP 500 psi MCFPD-1056, H2O - 20 bbls & Oil - 2 bbls, test witness-Victor Barrios w/Flint Engineering, Cont. in hole, tag sand @ 5775', start up gas comp, & clean sand to plug @ 5800'. Drill plug @ 5800'. Cont. in hole & tag sand @ 7600'. Clean to PBD @ 7750', soap sweeps & PU to 6930'.**

- 06/04/98 POOH, RIH, SN & 2-3/8" tbg, tagged sand @ 7730' for 20' of fill, cleaned sand to PBTD @ 7750', run soap sweeps, pull tbg up to 7440', flowed well up the tbg thru 1/2" choke.
- 06/05/98 RIH & tagged sand @ 7738' for 12' of fill, cleaned sand to PBTD, set on btm & pumped soap sweeps, PU to 7440'.
- 06/08/98 **Test DK w/ 1/2" choke as follows: 60# tbg, 580# csg, 10 BWPD, 1 BOPD, 396 MCFD test witness-Victor Barrios w/Flint Engineering, TIH w/tbg from 7440' to tag fill @ 7738' CO w/ gas comps, circ. well clean, PU & land tbg @ 7610' KB w/241 jts 2-3/8" tbg, NDBOP, NUWH, RDMO.**

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