

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

COPY

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *										5. LEASE DESIGNATION AND SERIAL NO. SF 078194			
1a. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>										6. IF INDIAN, ALLOTTEE OR TRIBE NAME			
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER <input type="checkbox"/>										7. UNIT AGREEMENT NAME LUDWICK LS			
2. NAME OF OPERATOR CONOCO INC.										8. FARM OR LEASE NAME, WELL NO. LUDWICK LS #19M			
3. ADDRESS OF OPERATOR 10 Desta Drive, Ste. 100W Midland, Texas 79705-4500										9. API WELL NO. 30-045-29562			
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 1020' FNL & 1180' FWL, UNIT LETTER 'D' At top prod. Interval reported below At total depth										10. FIELD AND POOL, OR WILDCAT BASIN DAKOTA			
14. PERMIT NO.										12. COUNTY OR PARISH SAN JUAN COUNTY			
DATE ISSUED										13. STATE NM			
15. DATE SPUDDED 05/27/98		16. DATE T.D. REACHED 6/6/98		17. DATE COMPL. (Ready to prod.) 7/8/98		18. ELEV. (DF, RKB, RT, GR, ETC) * 5852' GL		19. ELEV. CASINGHEAD					
20. TOTAL DEPTH, MD & TVD 6796'		21. PLUG, BACK T.D. MD. & TVD 6780'		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)* 6622' - 6740' BASIN DAKOTA										25. WAS DIRECTIONAL SURVEY MADE			
26. TYPE ELECTRIC AND OTHER LOGS RUN										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#		286'		12-1/4"		200 SXS					
7"		23#		2622'		8-3/4"		350 SXS					
4-1/2"		9.5#		6796'		6-1/4"		550 SXS					
29. LINER RECORD										30. TUBING RECORD			
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT *		SCREEN (MD)		SIZE			
										2-3/8"			
										6649.5 (FINAL)			
										BP @ 4910'			
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 7/8/98		PRODUCTION METHOD (Flowing, gas lift, pumping - size, and type of pump) FLOWING						WELL STATUS (Producing or shut-in) PRODUCING					
DATE OF TEST 7/2/98		HOURS TESTED 24 HRS.		CHOKE SIZE 1/2"		PROD'N FOR TEST PERIOD →		OIL - BBL 1/2		GAS - MCF 489			
WATER - BBL 5		GAS - OIL RATIO		FLOW. TUBING PRESS 90#		CASING PRESSURE 540#		CALCULATED 24 - HR RATE →		OIL - BBL 1/2			
GAS - MCF 489		WATER - BBL 5		OIL GRAVITY - API (CORR)		34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) VENTED							
35. LIST OF ATTACHMENTS SUMMARY, WELL LOGS										TEST WITNESSED BY THOMAS MARQUEZ W/FLINT			
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records										JUL 10 1998			
SIGNED <u>Sylvia Johnson</u>										FARMINGTON DISTRICT OFFICE			
TITLE SYLVIA JOHNSON, As Agent for Conoco Inc.										DATE 7/8/98			

* (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

CONOCO, INC.
LUDWICK LS #19M
API#: 30-045-29562
1020' FNL & 1180' FWL, UNIT 'D'
SEC. 05, T29N - R10W

COPY

- 6/22/98 MIRU, NDWH, NUBOP, load annulas, press test to 500 psi-OK. Started picking up tbg w/bit, RIH w/88 jts.
- 6/23/98 Cont. to RIH w/tbg & bit, tag cmt @ 6510', drill cmt to float collar @ 6750', & drill cmt to BPTD @ 6780', circ. clean 7 POOH w/tbg & bit BU Schlum. to run TDT log, log from 6780' to 2622'.
- 6/24/98 Run Schlum. CBL log from 6776' to 2622', POOH & RD Schlum. & test csg to 4000 psi-OK, RU BJ & perf DK @ 6622-27-30-32-40-58-60-65-82-81-89-91-93-95-97-6701-03-05-07-09-11-13-33-36-38-40. (total 26 holes), perf w/3-1/8" HSC w/.32" hole size, RD BJ, broke down DK perf's @ 2500 psi, pump in @ 2 bpm @ 1800 psi, w/ rig pump
- 6/25/98 RU BJ to acidize DK, installed frac valve & frac Y, acidized DK w/500 gals 15% HCl acid w/42 ball sealers, Avg. rate 8.5 BPM @ 2000 psi avg. press, max. press 3700 psi, well balled off, ISIP 900 psi, RD BJ. RU BJ & RIH w/ Junk basket, retrieved 38 ball sealers w/25 hits.
- 6/26/98 RU BJ to Frac DK, fraced DK w/ 108,810# of 20/40 Ottawa sand, total fluid pumped 1652 bbls, of 15# X-link gel, avg. press 3000 psi, @ 41 BPM avg. rate, max. press 3278 psi, max. sand conc. 3#/gal, ISIP - 1950 psi, RIH & set Hallib Fas Drill plug @ 4910' tested plug to 3000 psi-OK. Perf Point Lookout (MV) @ 4539-46-48-55-61-64-69-72-78-83-95-4603-09-13-22-24-41-71-89-4731-47-55-90-96-4820-29. Total 26 holes (holes size .32") RU to acidize, would not break, spot 10 galls 15% HCl acid w/dump baler, acidized Point Lookout w/500 gals 15% HCl acid w/39 ball sealers, avg. rate 8 BPM @ 2500 psi avg. press, max. press 3850 psi, well balled off, ISIP 1200 psi, RIH w/junk basket, retrieved 30 balls w/ 22 hits, Fraced Point Lookout MV w/88,276# of 20/40 Brady sand, total fluid pumped 1377 bbls of 15# X-link gel, pumped @ 46.5 BPM avg. rate @ 1800 psi avg. press, max. press 3250 psi & max. sand conc. 2.5#/gal, ISIP vacuum. RIH & set Hallib FDP @ 4505', tested plug to 3000 psi-OK. RIH & perf Menefee-MV @ 4205-07-26-34-61-66-87-90-4304-07-13-16-37-39-45-50-53-93-95-97-99-4401-13-25-34-38-44-51-53. Total holes 29, hole size .32" RU to acidize Menefee, would not break, spotted 10 gals 15% HCl acid @ 4399', w/dump baler, acidized Point Lookout MV w/500 gals 15% HCl acid w/44 ball sealer, avg. rate 10 BPM @ 1600 psi avg. press, max. press 4000 psi, well balled off, ISIP 500 psi, RIH to retrieve balls, retrieved 44 ball sealers w/26 hits, Fraced Menefee MV w/82,544# of 20/40 Brady sand, Total fluid 1773 bbls of slickwater, avg. rate 48 BPM @ 2300 psi avg. press, max. press 3185 psi, max. sand conc. 1.85#/gal, ISIP 1300 psi.
- 6/29/98 RU gas comp & blewby line, TIH w/ MMM & tbg tag fill @ 4108', unload well @ 4108', circ. clean.
- 6/30/98 TIH from 4108' to tag fill @ 4393', CO to BP @ 4505', DO BP & circ. CO 4519', PU tbg to 4110'.
- 7/1/98 BD well to pit, TIH tag fill @ 4772, CO to BP @ 4910' circ. hole clean, PU tbg to 4108'.
- 7/2/98 Installed 1/2" choke for MV test as follows: 275# TP, 555# CP, 10 BWPD, 1 BOPD, 1815 MCFD, test witnessed by Genaro Maez w/Flint Eng., remove choke & BD & kill to TIH to tag fill @ 4835', CO to BP @ 4910' & DO BP, cont. in hole tag fill @ 6699', 82' of fill over BPTD @ 6781', CO w/gas & foam to PBTD, circ. clean, PU MM & tbg to 4108'.
- 7/7/98 Flowed well up tbg & thru full opening 2" line. Max TP 80 psi, & CP 630 psi, well cleaned up making light fluids & light sand. RIH w/ tbg, tagged sand @ 6750', for 31' of fill, started up 2 drill gas comp, & cleaned sand to PBTD @ 6781', pulled tbg to 6510' & test DK formation thru 1" choke nipple, TP 90# psi, CP 540# psi, DK flow rate 489 MCFPD, w/ 1/2 bbl oil & 5 bbls water. Test witnessed by Thomas Marquez w/Flint Well Service, POOH w/2-3/8" tbg & MMM, RIH w/muleshoe collar, SN & 80 jts of 2-3/8" tbg.

7/8/98 RDMO.