

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE \* (See other instructions on reverse side)

FORM APPROVED OMB NO. 10040137 Expires: February 28, 1995 COPY

RECEIVED

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL, GAS WELL, OTHER. b. TYPE OF COMPLETION: NEW WELL, WORK OVER, DEEP-EN, DIFF. RESVR., OTHER. 2. NAME OF OPERATOR: CONOCO INC. 3. ADDRESS OF OPERATOR: 10 Desta Drive, Ste. 100W Midland, Texas 79705-4500. 4. LOCATION OF WELL: At surface 1020' FNL & 1180' FWL, UNIT LETTER 'D'.

98 JUL -9 PM 2:46 070 FARMINGTON, NM RECEIVED JUL 17 1998 OIL CON. DIV

5. LEASE DESIGNATION AND SERIAL NO.: SF 078194. 6. IF INDIAN, ALLOTTEE OR TRIBE NAME. 7. UNIT AGREEMENT NAME: LUDWICK LS. 8. FARM OR LEASE NAME, WELL NO.: LUDWICK LS #19M. 9. API WELL NO.: 30-045-29562. 10. FIELD AND POOL, OR WILDCAT: BASIN DAKOTA. 11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: SEC. 05, T29N - R10W.

14. PERMIT NO. DATE ISSUED. 12. COUNTY OR PARISH: SAN JUAN COUNTY. 13. STATE: NM. 15. DATE SPUDDED: 05/27/98. 16. DATE T.D. REACHED: 6/6/98. 17. DATE COMPL.: 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 TOOLS, CABLE TOOLS. 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). Table with columns: CASING SIZE/GRADE, WEIGHT, LB/FT, DEPTH SET (MD), HOLE SIZE, TOP OF CEMENT, CEMENTING RECORD, AMOUNT PULLED.

29. LINER RECORD and 30. TUBING RECORD. Tables with columns: SIZE, TOP (MD), BOTTOM (MD), SACKS CEMENT\*, SCREEN (MD), SIZE, DEPTH SET (MD), PACKER SET (MD).

31. PERFORATION RECORD (Interval, size and number): SEE ATTACHED SUMMARY. 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. Table with columns: DEPTH INTERVAL (MD), AMOUNT AND KIND OF MATERIAL USED.

33. PRODUCTION. Table with columns: DATE FIRST PRODUCTION, PRODUCTION METHOD, WELL STATUS, DATE OF TEST, HOURS TESTED, CHOKE SIZE, PROD'N FOR TEST PERIOD, OIL - BBL, GAS - MCF, WATER - BBL, GAS - OIL RATIO, FLOW. TUBING PRESS, CASING PRESSURE, CALCULATED 24 - HR RATE, OIL - BBL, GAS - MCF, WATER - BBL, OIL GRAVITY - API (CORR).

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): VENTED. TEST WITNESSED BY THOMAS MARQUEZ W/FLINT.

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 Sylvia Johnson TITLE SYLVIA JOHNSON, As Agent for Conoco Inc. DATE 7/8/98

ACCEPTED FOR RECORD JUL 10 1998 FARMINGTON DISTRICT OFFICE

\* (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.

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.