

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

RECEIVED  
BLM

5. LEASE DESIGNATION AND SERIAL NO.

SF 078194

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

1a. TYPE OF WELL

OIL WELL ☐GAS WELL ☒

OTHER

b. TYPE OF COMPLETION:

NEW

WORK

DEEP-

DIFF.

WELL ☒OVER ☐EN ☐RESVR. ☐

2. NAME OF OPERATOR

CONOCO INC.

3. ADDRESS OF OPERATOR

10 Desta Drive, Ste. 100W Midland, Texas 79705-4500

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) \*

At surface 1020' FNL &amp; 1180' FWL, UNIT LETTER 'D'

At top prod. Interval reported below

At total depth

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

BLANCO MESA VERDE

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

D 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. (Ready to prod.)

7/8/98

18. ELEV. (DF, RKB, RT, GR, ETC) \*

5852' GL

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD &amp; TVD

6796'

21. PLUG, BACK T.D. MD. &amp; TVD

6780'

22. IF MULTIPLE COMPL. HOW MANY \*

23. INTERVALS DRILLED BY

ROTARY

CABLE

TOOLS ☒TOOLS ☐

24. PRODUCING INTERVAL(S) OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD) \*

4205' - 4829' BLANCO MESA VERDE

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

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT *	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8"	4835' (TEST)	BP @ 49'10'
						6649.5' (FINAL)	

31. PERFORATION RECORD (Interval, size and number)

4205' - 4453' Menefee  
4539' - 4829' Point Lookout

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)

AMOUNT AND KIND OF MATERIAL USED

33. \*

## PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping - size, and type of pump)					WELL STATUS (Producing or shut-in)	
7/8/98		FLOWING					PRODUCING	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS - OIL RATIO	
7/2/98	24 HRS.	1/2"	→	1	1815	10		
FLOW TUBING PRESS	CASING PRESSURE	CALCULATED 24 - HR RATE	OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY - API (CORR)		
275#	555#	→	1	1815	10			

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

VENTED

TEST WITNESSES

BENARO MAEZ w/ FLINT ENGINEERING

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

\* (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

- 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.