

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

COPY

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT-" for such proposals

SUBMIT IN TRIPLICATE

1. TYPE OF WELL OIL WELL ☐ GAS WELL ☒ OTHER ☐	5. LEASE DESIGNATION AND SERIAL NO. NM 078194
2. NAME OF OPERATOR CONOCO INC.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME AM ID: 03
3. ADDRESS AND TELEPHONE NO. P.O. Box 2197, DU 3066, Houston, TX 77252-2197 (281) 293-1613	7. IF UNIT OR CA, AGREEMENT DESIGNATION LUDWICK LS
4. LOCATION OF WELL (Footage, Sec., T., R., M., or Survey Description) 660' FNL & 2600' FEL, Sec. 05, T29N, R10W, Unit Letter "B"	8. WELL NAME AND NO. #13B
	9. API WELL NO. 30-045-30136
	10. FIELD AND POOL, OR EXPLORATORY AREA BASIN DAKOTA
	11. COUNTY OR PARISH, STATE SAN JUAN COUNTY

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	
TYPE OF SUBMISSION	TYPE OF ACTION
☐ Notice of Intent ☒ Subsequent Report ☐ Final Abandonment Notice	☐ Abandonment ☐ Recompletion ☐ Plugging Back ☐ Casing Repair ☐ Altering Casing ☒ Other: Request for 90 day Dakota testing ☐ Change of Plans ☐ New Construction ☐ Non-Routine Fracturing ☐ Water Shut-Off ☐ Conversion to Injection ☐ Dispose Water
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)	
13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)	

Request for 90 day Dakota Testing. Will not complete in the Dakota.

SEE ATTACHED SUMMARY FOR COMPLETION DETAILS.

14. I hereby certify that the foregoing is true and correct		
SIGNED <u>Debra Sittner</u> (This space for Federal or State office use)	TITLE <u>DEBRA SITTNER, As Agent for Conoco Inc.</u>	DATE <u>9/20/00</u>
ACCEPTED FOR RECORD		
APPROVED BY _____ Conditions of approval, if any:	TITLE _____	DATE <u>OCT 17 2000</u>
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.		

* See Instruction on Reverse Side

NMOC

CONOCO, INC.
LUDWICK LS #13B
API# 30-045-30136
SEC. 5, T29N-R10W UNIT LETTER 'B'
660' FNL & 2600' FEL

6/21/00 MIRU spot equipment.

6/22/00 ND wellhead, NU BOP, RIH with drill equipment and drill out DV tools and float collar to PBTD at 7048'. Circulate hole and pressure test casing to 1000 psi (OK) SION.

6/23/00 Circulate hole with 1% KCL and pressure test casing to 1000 psi (OK), rig up schlumberger and run TDT log from 7043' up to 6600' and 4900' up to 3900' and gamma ray from PBTD at 7043' to surface. Rig up Blue Jet and run CBL from PBTD at 7043' up to 6600' and from 4900' up to TOC at 2100'. RD Blue Jet, SION.

6/26/00 RIH with 2-3/8" set at 6916'. Spot 150 gallons 15% HCL across interval to be perforated, unload hole with gas compressors down to 6416' and POOH with tubing, RIH with 3-1/8" select fire gun and correlate back to hallibyrton spectral density dual spaced neutron dated 5/27/00 and perforate 2 SPF, 12 gram 306T charges at the following stops 6916, 18, 20, 22, 24, 26. Casing pressure went to 1800 psi in 20 minutes, blind rams on BOP started to leak slightly, tightened rams and stabbed wellhead valve on top of BOP. Stated well flowing back on 1/2" choke. Decided to shut in for the night. Shut down.

6/27/00 NU 5000 psi. Frac valve, above BOP. Making plans for testing on Dakota. Schlumberger getting all equipment gathered up for test period. Shut down.

6/28/00 Rigged up blow down lines. Make plans for testing. Shut down.

6/29/00 Waiting for test equipment.

6/30/00 Waiting for test equipment.

7/5/00 Check well pressures. Casing 2420 psi. Rigged up Blue Jet, to run 5-1/2" RBP with gauges and plug set in a profile nipple above the RBP. Pressure test lubricator. Release pressure on the lubricator to get equipment started, got approximately 200' down and tried to pack off the lubricator, would slow down but not pack off completely. Pulled back out of the hole with wireline and tools. Checked rubbers on RBP – OK. Shut down.

7/6/00 Rig up Blue Jet and RIH with 5-1/2" wireline set, tubing retrievable packer, profile nipple with 1.81 blanking plug and pressure recorders in 2-3/8" perforated sub below packer and set at 6875' (packing element depth) POOH with e-line and start blowing well down on 1/2" choke at 11:55 a.m., well blew down from 2400 psi in 1 hour and then pressure started to build and in 10 minutes built from 100 psi up to 2300 psi. Shut down flow and secure well for night.

7/7/00 Rig up BJ and attempt to bull head kill well with 1% KCL water, pumped 45 bbl 1% KCL water down casing, casing pressure started at 2400 psi and pressured up to 3800 after pumping 45 bbls water, flowed well to pit on 1/8" choke until water dried up and then pumped 55 bbls water and well pressured up to 3800 psi shut down for 40 minutes and pressure went down to 3600 psi, then pumped 3 bbls into well and pressured to 3800 psi, bled pressure back to 2400 psi on 1/8" choke, SION.

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- 7/10/00 Rig up CUDD, test lines to 4500 psi and RIH with 1-1/2" coil tubing. When coil tubing reached 6200' BOP started to leak on bottom flange. Well pressure was 3300 psi, started flowing casing to pit and started to pump kill fluid (1% KCL) down 1-1/2" coil after 6 minutes. Pressures started to come down and leak stopped, continued to pump kill fluid, pumped a total of 192 bbls 1% KCL, after 62 bbls pumped well started to circulate drilling mud and heavy sand, continued in hole with coil tubing and tagged up at 6345' and were able to wash down to 6382' and tagged up on something that seems to be solid, pull out of hole with coil tubing. Casing pressure went down to 190 psi. tightened bolts on BOP, shut well in and pressure went to 1000 psi in 10 minutes. Left flow back crew with well over night.
- 7/11/00 Casing pressure 1600 psi, rig up BJ and mix calcium chloride kill fluid up to a weight of 9.9 PPG, RIH with 1-1/2" coil tubing and tag up at 6352' and circulate hole with 200 bbls 9.9 PPG kill fluid.. After circulation well was dead, let well set for 30 minutes and monitored well for flow. (No flow) strip tubing hanger through BOP and set to isolate well head, strip BOP off and NU rebuilt, tested 5000 BOP and test to 5000 psi (test OK), install 7-1/16" frac valve on top of BOP. Pressure up on casing to 500 psi, SION.
- 7/12/00 Casing pressure 0 psi mix 160 bbls kill fluid, move trailers around and spot tubing. Start in hole with on/off tool on 2-7/8" 10.4# American open hole tubing to 4300' SION.
- 7/13/00 Casing pressure 250 psi, tubing 950 psi, blew tubing down and pumped 20 bbls 10 PPG kill fluid in casing, continue in hole with tubing and tag at 6322' and circulate hole with 10 PPG water, latch on to packer at 6322' and RIH with slick line and pull equalizing prong out of blanking plug then RIH and attempt to pull blanking plug but could not latch on, flowed tubing and tried to latch plug again with no success, SION.
- 7/14/00 Released packer and pull six joints and packer hung up, worked loose and pull out of hole, keeping hole full of 10 PPG kill fluid, pulled packer and only got out of hole with on/off tool, blanking plug and approximately 18" of the body of the packer and about 3' of the packer mandrel. Rigged up Blue Jet and tagged top of fish at 6160' RIH with 3300' 2-3/8" kill string, SION. (Packer has 2 slips missing and is sand cut).
- 7/17/00 POOH with kill string, RIH with magnet on 2-3/8" tubing and tag fish at 6160 and push down hole to 6909' and POOH with magnet, retrieved one slip from packer, RIH with spear with 2-3/4" grapple, 6 3-1/8". Drill collars jars and bumper sub and tag fish at 6909' and push to 6936' latch fish and POOH with packer body leaving approximately 3' of mandrel and four 2-3/8" perforated subs with bull plug in bottom and gauges inside subs. Pumped 15 bbls 10 PPG kill fluid down casing. SION.
- 7/18/00 Casing pressure 380 psi. Bleed well down and RIH with overshot with 2-3/8" grapple, 6 3-1/8" drill collars, jars and bumper sub on 2-3/8" tubing and tag fill at 6876' and clean fill to top of fish at 6936 and push down to 6967' catch fish and POOH with packer mandrel, 4- 4' perforated subs, bull plug and gauges. RIH with 2-3/8" kill string. SION.
- 7/19/00 Continue in hole with 2-3/8" tubing and tag fill at 6947 and clean out sand to PBTD at 7043' pull up above perfs and wait 3 hours, RIH and tag at PBTD (no fill) pull up above perfs. SION.

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7/20/00 Casing pressure 0 psi, tubing pressure 0 psi. RIH and tag bottom at PBTD 7043' (no fill) Pull up hole and land tubing with 218 joints 2-3/8" set at 6908', with mule shoe on bottom and 2-3/8" seating nipple up from bottom. Circulate 10 PPG water out of hole and displace with 1% KCL 8.4 PPG water, rigged up well testers and started flowing on 16/64 choke well died, rigged up BJ and unload hole with 180,000 SCF N2. turned well over to well testers for night.

7/21/00 5-1/2" casing, 2-3/8" tubing set at 6908. Flow test well on 10/64 choke. Tubing pressure 2132 psi, casing pressure 2312 psi. Rate 2,011 mcf, 1 bbls oil, 4 bbls water. Test witnessed by Bob Morlan with DC Testers.

7/22/00 Change to 8/64 choke and test well tubing 2120 psi, casing 2369 psi. Shut well in at 8:00 a.m. RIH with Schlumberger pressure recorders and set in seating nipple and stabilize flow for 24 hours. Total water recovered 225 bbls.

7/23/00 Flow well on 8/64 choke until 12:05 p.m. and shut down well in for build up.

7/24/00 Shut in for build up.

7/25/00 Shut in for build up.

7/26/00 Shut in for build up.

7/27/00 Fig up expert downhole and pull Schlumberger pressure recorders. Final Report.