

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		5. LEASE DESIGNATION AND SERIAL NO. SF 078194
SUBMIT IN TRIPLICATE		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		7. IF UNIT OR CA, AGREEMENT DESIGNATION LUDWICK LS
2. NAME OF OPERATOR CONOCO INC.		8. WELL NAME AND NO. #18
3. ADDRESS AND TELEPHONE NO. P.O. Box 2197, DU 3066, Houston, TX 77252-2197 (281) 293-1613		9. API WELL NO. 30-045-08825
4. LOCATION OF WELL (Footage, Sec., T., R., M., or Survey Description) 990' FNL & 1780' FEL, Sec. 06, T29N, R10W, Unit Letter "B"		10. FIELD AND POOL, OR EXPLORATORY AREA BLANCO MESA VERDE
		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
<input type="checkbox"/> Notice of Intent <input checked="" type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice		<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input checked="" type="checkbox"/> Other: MV Recompletion/DHC DHC #2612
		<input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Dispose Water <small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)</small>
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.) <p style="text-align: center;">SEE ATTACHED SUMMARY FOR COMPLETION DETAILS.</p>		
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>9/11/00</u>
APPROVED BY _____ Conditions of approval, if any:		TITLE _____ DATE _____
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

ACCEPTED FOR RECORD

OCT 27 2000

FARMINGTON FIELD OFFICE
BY 604

AMOC

CONOCO, INC.
LUDWICK LS #18
API# 30-045-08825
SEC. 06, T29N, R10W UNIT LETTER 'B'
990' FNL & 1780' FEL

- 8/11/00 MIRU. SDFWE.
- 8/14/00 Check psi on well. 280# on tubing and 340# on casing. Blow down to pit. ND well head NU BOP's, TOO H with 215 joints 2-3/8", J-55, EUE 8 RD tubing. SN, 1 perf joint and mule shoe. RU Blue Jet RIH with Comp. BP and set at 6631' PU and RIH with CBL'. Pulled log from 5100' to 3500'. Found bond to be very poor from 5100' to 4400' and 4300 to 3500' also bad. Shut down for night.
- 8/15/00 Check psi on well 0#. After reviewing CBL with engineers. RU Blue Jet RIH with perforating gun and shot squeeze holes at 4410'. POOH with gun RD Blue Jet TIH with E-Z RET and 138 joints tubing. Shut down for night.
- 8/16/00 Check psi on well 0# set RET at 4375'. RU BJ Services. Pumped 20 bbls of SAPP per flush at 1050# .5 bbls/min. Started CMT pumped 19 bbls (50 sxs) of 12.5# LWL Premium Lite at 800#, .5 bbls/min. Started tail in CMT pumped 12 bbls (50 sxs) of 14.5# Type III 2% CACL at 650#, 1bbl/min. Displaced CMT. Sting out of RET with 1450# at end of displacement. Rev out. TOO H with setting tool and 139 joints tubing. RU Blue Jet PU and RIH with perforating gun shot 3 squeeze holes at 4250'. POOH with gun. RIH with E-Z drill RET and 134 joints tubing. Set RET at 4218' RU BJ. Trying to pump into perfs at 1700# no success. TOO H with tubing. RU Blue Jet. PU and RIH with perf gun shoot 2nd set of holes at 4053'. POOH with gun RD Blue Jet. TIH with 134 joints tubing. Sting into RET. RU BJ. Broke circulation between holes. Started pumping 20 bbls per flush at 580#, 1 bbl./min. Started CMT. Pumped 12 bbls (50 sxs) of 14.5# Type II 2% CACL at 300#, 1 bbl/min. Started Dis. Dis 16 bbls sting out of RET. RD BJ POOH with 8 joints and Rev out with 60 bbls of 1% KCL. Pulled 1 joint. Shut down for night.
- 8/17/00 12 hour SITP: 0 psi. 12 SICP: 0 psi. TOH with 2-3/8" tubing, setting tool and stinger. PU 3-7/8" mt bit, bit sub, (2) 3-1/8" OD DC's (BHA=62.12'). TIH with BHA and 2-3/8" tubing. Tagged cement at 4055'. LD 8 joints 2-3/8" tubing to drill out with. RU swivel. Held safety meeting. Broke circulation with water. Drilled green cement from 4055' – 4180'. Circ'd well clean. PUH to 3992'. SWI-SDON.
- 8/18/00 12 hour SITP: 0 psi. 12 hour SICP: 0 psi. TIH and tagged cement at 4180'. Drilled cement f/ 4180' – 4211'. Power swivel locked up. Changed out swivel. Drilled hard cement f/4211' – 4217'. Drilled cement retainer f/4217' – 4220' in 2 hours. Drilled cement f/4220' – 4236'. Circ'd hole clean. Pressure test 4-1/2" casing to 500 psi for 30 minutes, test OK. SWI-SDON.
- 8/21/00 12 hours. SITP: 0 psi. 12 hours. SICP: 0 psi. TIH and tagged at 4375'. Drilled cement retainer f/4375' – 4377'. Drilled cement from 4377' – 4421'. Fell out of cement at 4421'. Circ'd well clean. TIH to 5090', no problems. Pressure test 4-1/2" casing to 500 psi for 30 minutes, test OK. TOH with 2-3/8" tubing, DC's and bit. RU Blue Jet. Ran CBL-GR-CCL from 5000' – 3500'. CBL showed significant improvement in cement bond across Menefee and Point Lookout. RD Blue Jet. SWI-SDON.
- 8/22/00 RU Schlumberger. Ran TDT-GR-CCL from 500' – 3700'. RD Schlumberger. Sent log to Engineers to pick perfs. SWI-SDON.
- 8/23/00 RU Blue jet. Perf'd Point Lookout with 2 SPF select fire, 12 gram charges through 4-1/2" casing as follows: 4601', 03', 05', 07', 09', 11', 13', 15', 17', 23', 32', 90', 4715', 37', 45', 47', 52', 62',

CONOCO, INC.
LUDWICK LS #18
API# 30-045-08825
SEC. 06, T29N, R10W UNIT LETTER 'B'
990' FNL & 1780' FEL

64', 82', 95', 97', 99', 4801'. (48 holes) Starting flvl at surf. Ending flvl at 65'. RD Blue Jet. Start TIH with 2-7/8" 6.5# N80 Buttress WS, incomplete.

- 8/24/00 Finished TIH with 2-7/8" Buttress WS and Halliburton packer. Set packer at 4507'. Prep to frac. SWI-SDON.
- 8/25/00 RU BJ Frac equipment. Held safety meeting, test lines to 5500 psi. Set pop-off at 3800 psi. Broke perms with 1% KCL water at 8 BPM at 2300 psi. Acidized Point Lookout perms 4601-4801 with 1500 gals 15% HCL acid and balled off perms with 13 bbls acid in tubing. Attempt to surge off balls sealers with no success. Released packer and reversed out acid. TIH and knocked ball sealers off perms. PUH and re-set packer at 4507'. RU stinger frac stack. Pressured annulus to 500 psi. Frac'd Point Lookout perms 4601-4801 with 75,165 gals (clean volume) 70 Q Linear Foam (Total N2 913,000 scf) with 48,466# 20/40 brown sand in 6 stages. Max pressure 3350 psi. Min pressure 2850 psi. Average pressure 3030 psi. Average foam rate: 25 BPM. ISIP: 1540 psi. 5 min 1086 psi. 10 minutes 1050 psi. 15 minutes 1026 psi. Total load to recover: 570 bbls. RD BJ frac equipment. RU flowline to flow back tank. 1 hour. SITP: 900 psi. Opened well to tank, flowed well total of 56 hours (6:00 a.m. Monday) to tank on a 1/4" - 1/2" choke, FTP: 900-140 psi. Recovered total of 360 bbls of load water. Estimated flowrate: 1030 mcf/day.
- 8/28/00 Flowed well down. TOH with 2-7/8" WS and packer. RU Blue Jet. RIH with 4-1/2" COMP BP. Set BP at 4560'. POOH. Shut blind rams. Pressure test BP to 500 psi, test OK. PU 3-1/8" select fire perf guns. Perf'd Menefee with 2 jspf as follows: 4481', 79', 4373', 71', 69', 67', 65', 03', 01', 4299', 97', 95', 93', 91', 89', 87', 69', 67', 65', 63', 61', 59', 4257'. Total of 46 holes. RD Blue Jet. SWI-SDON.
- 8/29/00 PU new 4 1/2" packer. TIH w/ 4 1/2" packer & 2 7/8" WS to 4157'. Set packer @ 4157'. Pressure test 2 7/8" x 4 1/2" to 500 psi, test OK. SWI-SDON. Prep to acidize & frac.
- 8/30/00 16 HR SITP: 360 psi. RU BJ Frac equipment. Held safety meeting. Pressure test lines to 5000 psi. Loaded annulus & pressured up on annulus to 500 psi. Broke perms down with 1% KCL water @ 2 bpm @ 1850 psi, increased rate to 10 bpm @ 500 psi. Shut down. ISIP: 620 psi. Acidized Menefee perms 4257-4481 (46 holes) with 1500 gals 15 % HCL acid dropping 2 balls/bbl, 5 BPM @ 200-300 psi with ball action to 2800 psi flushed to bottom perf. Shut down. ISIP: 1000 psi. Pressure bled to 0 psi in 1 min. Released packer, TIH & knocked ball sealers off perms. PUH & re-set packer @ 4157'. Pressured annulus to 500 psi. Frac'd Menefee perms with 32711 gals 70Q foamed linear gel with 35000# 20/40 brown sand. Max press: 3400. Min press: 3000. Avg pres: 3300 psi. Avg rate: 22 BPM. ISIP: 900. 5 min: 1346. 10 min: 1298. 15 min 1264 psi. 380 BLTR. RD BJ equipment. 1hr SITP: 900 psi. RU well to flowback tank. Opened well to flowback tank. FLOWed 17 hrs to tank. FTP: 900-500-250-150 psi. Pressure stabilized @ 150 psi on a 1/2" choke. Recovered 360 of 380 BLW.
- 8/31/00 FTP: 150 psi. Removed choke out of flowline. Bled well down to tank. Killed well w/20 bbls 1% KCL water. Released packer & TOH w/packer LD 2 7/8" workstring. Had to kill well 3 times while TOH. Total of 85 bbls water to keep well dead. Changed pipe rams in BOP. PU 3 7/8" bit, bit sub w/ float, (4) 3 1/8" DC's, X-O. (BHA= 121.75'). TIH w/BHA & 1 stand of 2 3/8" tbg. Reverse pump quit working. Changed out reverse pump. SWI-SDON.

CONOCO, INC.
LUDWICK LS #18
API# 30-045-08825
SEC. 06, T29N, R10W UNIT LETTER 'B'
990' FNL & 1780' FEL

- 9/1/00 15 H. SITP: 980 psi. Move in and start rigging up gas compressor package. Left well shut in for holiday weekend.
- 9/5/00 Finish RU gas compressor package, blooie line, flare lines. Pressure test all equipment to 150 psi. SICP: 1300 psi.
- 9/6/00 SICP: 1300 psi. Weatherford performed start up on compressor package and went over operation procedure for compressors. Bled well down from 1300 – 150 psi in 2 hours through blowdown line to pit. Unloaded hole at 3076', no fluid. TIH and tagged sand at 4483'. Cleaned out sand from 4483' – 4561'. Drilled FAS-DRIL plug from 4561' – 4562'. Did not see any pressure increase or influx of water after drilling FAS-DRIL plug. Continued TIH to 4987' and did not tag any sand. Blew hole clean at 4987'. POH to 4203'. Left well flowing through ½" choke overnight. FCP: 65 – 150-230-210 psi. Flowing casing pressure stabilized at 210 psi, estimated flow rate 1386 mcf/d, 2 bbls water in last 12 hours.
- 9/7/00 Flowing casing pressure 210 psi. Bled well down to 100 psi. Killed well w/ 1% KCl. TIH and tagged sand @ 6411'. Unloaded hole w/ 2 compressors @ 800 psi and 430 psi. Cleaned sand from 6411' to 6617'. Drilled Fas-Plug from 6617' to 6619'. Continued with TIH from 6619' to 6900'. POH to DC's. SWION.
- 9/8/00 Bled well down to 100 psi. Killed well. LD DC's and bit. RIH w/ 2-3/8" muleshoe, seating nipple 207 jnts (4.7#, J -55, 8rd EUE) tubing and landed at 6727'. SN @ 6726'. RU lubricator and swab. RIH w/ swab mandrel to SN without problem. RD swab. ND BOP. Installed master valve. NUWH. RDMO.