

~~FORM APPROVED~~
OMB NO. 1004-0137
Expires: February 28, 1995

COPY (See other instructions on reverse side)

BUREAU OF LAND MANAGEMENT				RECEIVED		5. LEASE DESIGNATION AND SERIAL NO. SF 078146	
WELL COMPLETION OR RECOMPLETION REPORT AND LOG *						6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
1a. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>						7. UNIT AGREEMENT NAME NEWBERRY COM	
b. TYPE OF COMPLETION: NEW WORK DEEP- DIFF. OTHER WELL <input checked="" type="checkbox"/> OVER <input type="checkbox"/> EN <input type="checkbox"/> RESVR. <input type="checkbox"/>						8. FARM OR LEASE NAME, WELL NO. NEWBERRY COM #1M	
2. NAME OF OPERATOR CONOCO INC.						9. API WELL NO. 30-045-29582	
3. ADDRESS OF OPERATOR 10 Desta Drive, Suite. 100W Midland, TX 79705-4500						10. FIELD AND POOL, OR WILDCAT BASIN DAKOTA	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) * At surface 1120' FSL & 1850' FEL, UNIT LETTER 'O' At top prod. Interval reported below At total depth						11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA SEC. 05, T31N - 12W	
14. PERMIT NO.				DATE ISSUED		12. COUNTY OR PARISH SAN JUAN COUNTY	
15. DATE SPUDDED 7/2/98		16. DATE T.D. REACHED 7/10/98		17. DATE COMPL. (Ready to prod.) 9/8/98		18. ELEV. (DF, RKB, RT, GR, ETC) * 6005' GL	
20. TOTAL DEPTH, MD & TVD 7109'		21. PLUG, BACK T.D. MD. & TVD 7105'		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)* 6912' - 7083' 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)							
CAS NG SIZE/GRADE		WEIGHT, LB/FT		DEPTH SET (MD)		HOLE SIZE	
9-5/8"		36#		288'		12-1/2"	
7"		23#		2515'		8-3/4"	
4-1/2"		9.5#		7109'		6-1/4"	
29. LINER RECORD				30. TUBING RECORD			
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT *	
						SCREEN (MD)	
						SIZE	
						DEPTH SET (MD)	
						PACKER SET (MD)	
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 9/8/98		PRODUCTION METHOD (Flowing, gas lift, pumping - size, and type of pump) FLOWING				WELL STATUS (Producing or shut-in) PRODUCING DHC # 1976	
DATE OF TEST 9/6/98		HOURS TESTED 24 HRS.		CHOKE SIZE 1/2"		PROD'N FOR TEST PERIOD	
FLOW TUBING PRESS. 20		CASING PRESSURE 0		CALCULATED 24 - HR RATE		OIL - BBL 4	
						GAS - MCF 132	
						WATER - BBL 10	
						OIL GRAVITY - API (CORR)	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) VENTED						TEST WITNESSED BY WESLEY HERRERA	
35. LIST OF ATTACHMENTS SUMMARY							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.							
SIGNED <u>Debra Bemenderfer</u> TITLE <u>Debra Bemenderfer, As Agent for Conoco Inc.</u> DATE <u>9/17/98</u>							

* (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 or to furnish any information in any matter within its jurisdiction.

NMOC

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries)					38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH
			NEWBERRY COM #1M	Cliffhouse Menefee Point Lookout Gallup Greenhorn Graneros Dakota Dakota (massive)	4082' 4209' 4679' 6080' 6794' 6852' 6910' 6975'		

COPY

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1120' FSL & 1850' FEL, UNIT 'O'
SEC. 05, T31N - R12W

COPY

- 7/16/98 MIRU, check press, attempt to bleed down annulus, loaded annulus w/50 bbls H2O, annulus went on vacuum, RIH on 220 jts of 2-3/8" tbg (4.7#, J-55, EUE, 8RD, Grade A, tagged green cmt @ 6925' from KB, L/D one jt tbg, rev circ. out green, cmt.
- 7/17/98 RIH w/5 stds of tbg workstring, tagged hard cmt @ 7034' ND DO to FC @ 7064', cont. drilling cement to top of Float Shoe @ 7109', noted only cmt in returns, did not drill out of shoe, Circ. clean. Press tested 4-1/2" csg to 2200 psi, press test to 4200 psi w/pipe in hole & pipe rams closed, attempts 2nd 4200 psi test w/ blind rams closed, RIH, Circ. clean, displace fresh H2O in well w/ 1% KCl H2O.
- 7/20/98 Load well w/ 1% KCl H2O, test csg to 1000 psi, OK, RU to run CBL/BR/CCL log, RIH w/ CBL/GR/CCL tool on WL, press up csg to 1000 psi & run CBL/BR/CCL from TD (WL 7112') to 2500', cmt bond intervals from 7112' - 4990' & from 4930' - 4800', Float collar noted @ 7062', no cmt bond noted from 4800' - 2500', run TDT/GR log from 7112' - 2500', logged well thru non-cmt bonded sections of hole.
- 7/21/98 RIH pkr on 2-3/8" tbg workstring, set pkr @ 7096', test 4-1/2" csg from 7096' and shoe to 450 psi surface press, RU press test truck & test, bled off 200 psi, attempt to press up to 3000 psi, POOH, pkr lost upper rubber pack-off element, RIH, retrievematic pkr to 5780', pkr tried to hang up, POOH, CBP & RIH, tagged csg shoe & set CBP @ 7105', POOH 10 stds.
- 7/22/98 POOH & RIH to 5013', attempt to test csg & CIBP, leaked off @ 2600 psi, still full of 1% KCl H2O, OK RIH to 7102' & tested CIBP, leak-off @ 2600 psi, tested csg from 7102' to surface to 4000 psi, OK, POOH RU WL & RIH, cmt dump bailer containing 12 gals of mixed Portland cmt & dump on top of CIBP (approx. 8' on top of CIBP). Load hole w/10 bbls KCl H2O, test all of 4-1/2" csg & CIBP, rel press, LD perf guns & RIH on WL & per DK, POOH, RIH w/perf gun, RIH w/ WL, finish perfring DK, Recorrelated to CCL, POOH w/ WL, Begin to POOH, LIGHTNING STORM.
- 7/23/98 Pull perf gun from hole, RIH tie in CCL, DK perf locations-7083-78-76-67-62-54-46-41-33-19-17-11-7003-6998-94-92-90-88-86-84-82-78-66-58-54-42-31-21-6912, total of 29 shots, POOH, Run tension pkr on 1 std 2-3/8" tbg & set @ approx. 60', acidize/ballout DK perfs, break down perfs @ 2350 psi w/ 1bpm, ISIP - 400 psi, 45 balls, 12 bbls of 15% HCl, flushed w/105 bbls 1% KCl of 114 bbls before ballout, pumped @ 5.9 bpm, max. press 3500 psi RD BJ, RU WL, 45 balls retrieved, 28 hits.
- 7/25/98 Did gel H2O (tail-in Resin Coated 20/40 sand) Frac DK, placed 124236 # sand, ISIP-1300 psi, avg. rate 45 bpm, min press - 2400 psi, max. press - 3500 psi, pad 10,000# sand, calculated frac gradient - .62.
- 7/27/98 RU Halib. WL, RIH & set BP @ 5150', POOH, test BP to 1000 psi PU 2 shot Squeeze perf gun w/ .38" shot set @ 180 deg, RIH & perf @ 4670', POOH & RD Halib. WL, RIH w/ Baker 4-1/2" cmt retainer & set @ 4535'. RU BJ cmt equip., test lines to 3000 psi, est. inj rate w/ 11bbls of water (3 bpm @ 1500 psi), mix & pump lead slurry (50 sxs Class 'H' + 10% thiad + PPSX Gilsontie @ 14.6 PPG) @ 3.1 bpm w/ 1500 psi, mix & pump tail slurry (100 sxs CL 'H' neat @ 15.6 PPG) @ 3.1 bpm w/1250 psi, displaced w/ 18.5 bbls H2O, stung out, rev circ. 25 bbls, sting in, squeeze to 200 psi, stung out, rev circ. 25 bbls. RD BJ, cmt squeeze went very well.
- 7/28/98 Drill cmt 1st squeeze, run CBL/CCL, 2nd sqz perfs. PU four 3-1/8" DCs, Bit & B/S, RIH tagged cmt retainer @ 4535', DU retainer, TOC @ 4540', Drilled hard cmt from 4540' - 4643' (103' of cmt.) RIH & tagged D-BP Halib. WL RI to 5000', tie in CCL & run CBL/CCL to 4000'. Cmt bond up to 4582', POOH, RU & run 2-shot sqz perf gun to 4600', correlated CCL, shoot 2 holes @ 4508', .38" w/180 deg. Phasing (4508' also one of MV Menefee perfs). POOH & RD Halib WL.
- 7/29/98 RIH & set cmt retainer @ 4314'. SO or retainer, pump 20 bbls 1% KCl to clear tbg, SI retainer, test tbg to 750 psi, OK. Press up annulus to 500 psi, pumped 25 bbls H2O, est. inj rat (2000@ 2.6 bpm), MP 88 bbls lead cmt slurry @ 12.2 PPG (250 sxs/ 1.97 yld) POZ w/Bentonite, Celloflake, Gilsontie, CaCL2; MP tail slurry of CL "H" neat @ 15.6 PPG (100 sxs/ 1.2 yld). Press to 750 psi @ 2 bpm while pumping cmt, press up to 2500 psi as

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cmt was displaced past retainer w/ 16.4 bbls H2O, bled off press to 500 psi below retainer, circ. 25 bbls H2O to clear tbg.

- 7/30/98 Tagged cmt retainer @ 4314', DO retainer & 343' of hard cmt to 4657' (sqz perms @ 4508'), RIH & tag D-BP, rev circ. to CO hole, test csg to D-BP to 1000 psi, OK. POOH, RU Halib. WL & perf PLO formation (29 holes, 132' net, 5111' to 4709'), secure well.
- 7/31/98 Acidize/Ballout PLO perms (29 holes), OK, retrieved 19 hits of 45 balls pumped. Run slick H2O frac on PLO (Pro technics ran triple radio-active tracer on PLO frac as per Midland), 1891 bbls fluid to recover, treatment rate: 56 bpm, treatment press's: max. 2680 psi, min 1580 psi, avg. 1800 psi, total of 1050000 lbs 20/40 sieve sand placed, PLO on vacuum afterwards, job went well, RIH w/ WL set CIBP @ 4668', press test CIBP to 1000 psi, OK. RIH w/ perf gun & perf Menefee (29 holes, .36", interval from 4344' - 4616', 100' net pay), job went fine, acidize/ballout Menefee perms, surged balls 3x's to finish flush, formation seemed tighter than PLO, slight flow after we finished job, retrieved 45 of 45 balls, 28 hits (29 holes). Run slick H2O frac job on Menefee formation, screen out after pumping 41400 lbs (of proposed 85000 lbs) of 20/40 sieve sand, total of 1068 bbls fluid to recover, treating rate: 49 bpm thru-out job, treating press, min 2500 psi, avg. 2600 psi, max. 3700 psi, RD BJ.
- 8/3/98 NU blooie line and "T"
- 8/4/98 RIH, 1800', CO sand & H2O, RIH to 3650', CO, RIH to 4600', tagged sand @ 4600', CO 68' of sand to CIBP @ 4668', DO CIBP, blow clean, CO sand to D-BP @ 5150', hole is clean.
- 8/5/98 PU Mule shoe & SN & RIH to 5150', no fill on D-BP, POOH to 4860', install 1/2" bean choke.
- 8/6/98 Flowback Menefee & PLO.
- 8/7/98 Run Protechnics GR/CCL log, CO sand to 5150'.
- 8/8/98 RU WL & run Protechnics logging tool thru tbg & across the PLO perms, RD after logging, RIH to 4850', Final test Pressures 1/2" choke: 190# TP, 450# CP, 1-2 bbls per hr water production & 0 noticeable liquid oil production.
- 8/10/98 Arrived to find 600 psi on csg/650 psi on tbg. POH w/ 2-3/8" tbg & S/N w/ mule shoe. Replaced blown hydraulic hose on rig (1.5 hrs.). P/U 4-DC bit & B/S & RIH. Tagged sand @ 5050' (100' above D-BP). CO sand to BP @ 5150'. Drill BP & CO sand 7105'. POH to 4200'.
- 8/11/98 RIH from 4200', Tagged 20' of sand on top of PBTB (7100'), C/O sand to 7100', pump 3 soap H2O sweeps. POH w/ bit, noted some sand w/ H2O in Blewey Line as we were POH so decided not to run compression pkr until we cleaned up well more in an attempt not to allow sand to deposit on top of pkr during flow test. P/U Mule shoe & SN & RIH, tagged PBTB @ 7100'. POH to 7000'.
- 8/13/98 Cont. to flow-back well on rigs 1/2" choke till 0600 hrs. (press @ 0600 tbg 170psi/csg 480 psi), believed washed out choke was causing press drop in tbg. Installed new 1/2" choke & flow from 0700 hrs. to 1000 hrs. (press @ 1000 hrs. tbg 185 psi/csg 470 psi). Bleed-off well & kill tbg w/ 5 bbls 1% KCl. RIH & tagged sand 15' above PDTD (7100'). C/O sand to PBTB, pumped 2- 5 bbl water/ soap sweeps all the way around. POH to 7000'. Begin flow-back again, Starting press-tbg 50 psi/ csg 360 psi. Press increased in 4 hrs. to- tbg 160 psi/ csg 440 psi but press are still unstable. Cont. flow-back overnight.
- 8/17/98 Csg- 620#, Tbg- 640#. Bled off well. PU, RIH w/ 4-3 1/8" DCs then LD DCs and 10- jts 2 3/8", 4.7#, J-55, 8 rd , EUE tbg. Hang-off 218 jts of 2-3/8", 4.7#, J-55, 8rd, EUE. S/N & Mule shoe set @ 6910' (2' above top DK perf). ND BOPs & Blooie line. RD Big A-#10. FRR. Moved rig and equipment beginning @ 1100 hrs to Bruington LS #3.(transferred 2 drill gas compressors s/ #s C-129, 40-2385 to new location)

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- 9/2/98 New Well Completion: MIRU Big A #10 (from Primo #1). Kill tbg w/ 25 bbls 1%KCL water. NU blooie line. ND WH. NU BOP. RU Blewey line to BOP. Begin POH w/ 2-3/8", 4.7#, J-55, EUE, 8RD production tbg string. (Will PU test pkr in morning to test DK formation.)
- 9/3/98 Flare-off press. Kill csg w/ 30 bbls 1% KCl. RIH w/ MS, 2-JTS 2-3/8" tbg, Baker test pkr w/ down hole valve, Seat nipple, and 117 jts of 2-3/8", 4.7#, J-55, EUE, 8RD tbg. Set pkr @ 6900' and close down hole valve for 1 hour (allow press build-up). RU 2" flowline. Open valve and flow well though 1/2" choke till press stabilizes for 4 hour flow test. (press not yet stabilized high 85# low 40# tbg press). Flow-back continues.
- 9/4/98 Tbg press dropped from initial of 85 psi last night to 27 psi. Swab well all day & periodically flow back well till tbg press dropped off. Last flowback- tbg press started @ 110 # & decreased to 64 # w/ 1/4" choke. Dropped 2 soap sticks .
- 9/5/98 640# csg, 640 tbg. Bled off press though 1/2" choke down to 150# in 21 min. Tbg press fluctuating and flow includes gas/condensate/water.
- 9/6/98 Well flowed from DK formation all night & morning until approx. 1400 hours. Tbg press stabilized @ 20# for 4 hrs. w/ 1/2" choke, 4 BOPD, 10 BWPD, Calculated gas @ 132 MCFPD, Wesley Herrera-witness, Depth of tbg for test - 6262' w/ Test pkr set @ 6200'.
- 9/8/98 Land 218 jnts of 2-3/8", 4.7#, J-55, EUE 8rd tubing. Set S/N @ 6210'. RDMO. Turned well over to production.