



Well History

Well Name: Anderson 32-10

API 05123236610000		Surface Legal Location SWNE 10 6N 66W		Field Name Wattenberg		State CO		Well Configuration Type Vertical	
Ground Elevation (ft) 4,870.00	Original KB Elevation (ft) 4,880.00	KB-Ground Distance (ft) 10.00	Spud Date 3/21/2006 00:00	Rig Release Date 3/25/2006 00:00	On Production Date 4/28/2006	Abandon Date			

Job

Drilling - original, 3/21/2006 00:00

Job Category Drilling	Primary Job Type Drilling - original	Start Date 3/21/2006	End Date 3/25/2006	Objective DRILL NEW CODL WELL
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Daily Operations

Start Date	Summary	End Date
3/21/2006	Ensign Rig #31: : MIRU. Drill rat and mouse holes and spud 12 1/4" surface hole at 6:15 PM. TD 12 1/4" surface hole at 458' at 10:30 PM. . Cond & circ 1/4 hour and TOOH.	
3/22/2006	Ensign Rig #31: Rig up casers. Ran 10 joints of new, 24#, J-55, 8 5/8" surface casing to 438'. Set at 448'. Rig up Cementer's Well Service and pump 275 sacks of Class G cement +3%CaCl2 + 1/4# flake per sack. Plug down at 2:30 AM. Wait on cement.	
3/23/2006	Ensign Rig #31: At 3773' and drilling 7 7/8" hole at 6 AM. Last survey at 2756': .85 degrees.	
3/24/2006	Ensign Rig #31: At 6441' and drilling 7 7/8" hole at 6 AM. Last survey at 5393': .3 degrees.	
3/25/2006	Ensign Rig #31: TD At 7510' hole at 10:30 PM on 3/24/06. Last survey at 7510': 1.05 degrees. Condition mud & short trip. Start LDDP	
3/25/2006	MIRU Phoenix Surveys Inc. Ran Comp Density/Comp Neutron/Dual Induction log finding a LTD of 7517' KB, DTD of 7519'. RU casing crew and ran Weatherford Auto Fill Guide Shoe, 14.05' shoe joint, 175 joints of 10.5 #/ft, 8RD, M-65, 4 1/2" casing and 1 joint of 11.6 #/ft, M-80 on top of casing string for a total of 177 joints. Casing set @ 7489.57'. PBDT @ 7473.94'. Circulated hole once casing was set for 30 minutes prior to cementing. RU BJS and pumped 20 bbls of claytreat water, 20 bbl mud flush, 20 bbls claytreat water and 245 sx Premium Lite Cement (144 bbls) 80 sx 50/50 Poz (16 bbls), 165 sx (96 bbls) Premium Lite Cement, 155 sx 50/50 Poz (44 bbls), shut-down, wash up cement pump & lines to the pit, released wiper plug and displaced with 119.2 bbls treated water. Plug down OK @ 4:25 p.m. Bumped plug with 2500 psi @ 2.5 bpm, shut down - watched psi stabilize at 2500 psi, released psi to BJS inventory tanks and tested plug. Released rig @ 5:25 p.m. Estimated TOC @ 450'.	
4/4/2006	RU Nuex to perform CCL, CBL, and VDL from PBDT@ 7427-4500'. Bond looks good. Next, we did a CBL from 4500' to surface. We have cement to 1000'. We then perforated the Codell from 7336-7346' using a 3 1/8 slick gun loaded with 11 gram charges, shooting 120* phasing, .34 hole size and 13.59" penetration.	
4/6/2006	MIRU BJ Services. Performed a New Codell stimulation using 2317 bbls of Vistar 20# fluid system, 178880 of 20/40 white sand and 0 lbs of Super LC 20/40 resin coated proppant. Codell perms @ 7335-7345' (30 Shots). Pumped 1 - 4 ppg stages of 20/40 white sand, flush well 1.9 bbls, shut down, record ISDP = 5200 psi. RD BJ Services, turn well on to flowback. Transfer 170 bbls from hydration unit to flowback tank. MTP = 5417 psi, ATP = 4390 psi, AIR = 16.2 bpm. Pressure response was positive to very positive for entire treatment. The well screened out in the 4 ppg stage. Operationally the treatment went well. Screen out was due to geologic reasons. Total fluid to Recover = 2319 bbls. Turn well on to flowback on a 20/64" choke until clean up then on a 12/64" for the remainder of flowback. Well was flowing and cleaning up very well.	
1/20/2007	MIRU L&L Well Service. Hook up pump and lines. SDFW Daily Cost \$2930.00 Cost to Date \$ AFE Est. Cost \$	
1/22/2007	Attempted to NU BOP's. Well kicked off for most of the day. SDFN Daily Cost \$5250.00 Cost to Date \$8180.00 AFE Est. Cost \$	
1/23/2007	Let well blow down. TIH with 30 joints of 2 3/8 tubing. Stacked out @920'. Line out equipment to clean out paraffin plug. SDFN. Daily Cost \$6500.00 Cost to Date \$14,680.00 AFE Est. Cost \$	
1/25/2007	ND BOP's. NU wellhead. IFL 2000' Swabbed back 65 barrels. Tubing went on a strong blow. Shut well in for 20 minutes. Tubing and casing pressure started to build. Sent to sales line. RD. Daily Cost \$4580.00 Cost to Date \$48105.00 AFE Est. Cost \$	

Initial Completion, 4/4/2006 00:00

Job Category Completion/Workover	Primary Job Type Initial Completion	Start Date 4/4/2006	End Date 4/28/2006	Objective COMPLETE NEW CODL WELL
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Daily Operations

Start Date	Summary	End Date

Recompletion, 2/23/2012 00:00

Job Category Completion/Workover	Primary Job Type Recompletion	Start Date 2/23/2012	End Date 3/22/2012	Objective CODL REFRAC, NIO RECOMPLETE, CASING INTEGRITY TEST
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Daily Operations		
Start Date	Summary	End Date
2/23/2012	STP 100 psi, SCP 150 psi, SSCP 0 psi, MIRU Basic rig #1557, blew well down to rig tank, control well w/40 bbls Claytreat/Biocide water, ND WH, NU BOP, PU tag jts, tagged 40' in w/2 jts, LD tag jts, POOH w/ production tbg to derrick, POOH w/ 229 jts 2 3/8" J-55 EUE 8rd tbg, ND BOP and 3 K tubing head, NU 5 K tubing head and BOP, SI well and secure, too windy to continue operations, SDFN.	2/23/2012
2/24/2012	No tubing, ICP-30, ISCP-0. MIRU Pick Testers, blew well down to rig tank, control well w/30 bbls. 2% claytreat/biocide. PU RMOR's 3 7/8" blade bit and scraper derssed for 4 1/2" 11.6# casing. TIH, and hydrotest 229 jts. of 2 3/8" 4.7 lb/ft J-55 EUE prod. tbg. to 6000 psi.. All tubing tested good. RD Pick testers. PU tag joints tagging fill @ 7,349' w/230 jts.. RU circ. equip. and clean out to 7,473' w/234 jts., tools and KB. Role hole clean. LD 8 jts. and POOH to derrick w/226 jts.. LD bit and scraper. PU RMOR's RBP. TIH w/226 jts. from the derrick, setting RBP @ 7,244.61' w/226 jts., tools and KB.. LD 1 jt. and RU circ. equip.. Reverse circ. hole clean. Pressured up to 2000 psi and plug held. ND BOP and NU 5000# master valve. Drain lines and shut in for the weekend.	2/24/2012
2/27/2012	ITP-0, ICP-0, ISCP-0. MIRU Pick Testers and pressure tested csg/RBP to 5000 psi. for 15min..Tested good. PU1jt. and released RBP.TOOH laying down 226jts.. Leaving 229 jts.. RU Superior Wireline. RIH w/3 1/8" slickgun, correlated cased/open logs getting on correct depth, re-perforated Codell 7,334'-7,342', 3 spf (24 new holes), 120 degree phasing, 19 gram charges, .41" entry holes w/21.28" penetration, all shots fired, RD e-line. ND BOP and well head, NU frac valve. Well is ready for Frac. SIFN. RDMO Basic Rig #1557.	2/27/2012
3/8/2012	2 Stage Codell / Niobrara: MIRU HES. Well took 86 bbls to load. (Break 3543 psi @ 5.1 BPM) Pumped 119 bbls of Active pad. Pumped 595 bbls of bbls of 22# pHaser pad, 196 bbls of 1.0 ppg 20/40 slurry with 22# pHaser, 523 bbls of 2.0 ppg 20/40 slurry with 22# pHaser, 929 bbls of 3.0 ppg 20/40 slurry with 22# pHaser, 282 bbls of 4.0 ppg 20/40 slurry with 22# pHaser, 68 bbls of 4.0 ppg SB Excel slurry with 22# pHaser. Flushed well to top of the Codell perf (117.0 bbls) with a 3 bbl spacer followed by 24 bbls of 15% HCl followed by 90 bbls claytreated water (Spotting acid @ bottom of Niobrara B Bench). Shutdown (ISDP 3407 psi) (FG .90). Fluid contained the following chemicals: .6 gpt CL-23, .6 gpt BA-20, 1.5 gpt GasPerm 1100, 1.25 gpt Clayfix III, 0.5 - 3.0 gpt Vicon NF, 0.25 - 0.75 gpt CAT 3, 26 ppt WG-18, 1.0 gpt Losurf-300 (216720 lbs 20/40 Ottawa) (8000 lbs 20/40 SB Excel). RD HES, MIRU PSI Wireline. MTP = 4437 psi, ATP = 3825 psi, AIR = 25.8 bpm. Pressure response was slightly positive for entire treatment. Treatment went good.	3/8/2012
3/8/2012	Niobrara Hybrid: RIH with PSI wireline using High pressure control unit and grease head. Set RMOR Cast Iron Flowthrou 10k frac plug @ 7260' with a Baker #10. Duel fire 3 1/8" slick gun and EXT charges (22.7 gram, .42 entry hole, 35.1" penetration, 120 degree phasing). Niobrara "B" Bench @ 7155'-7163' (3 SPF) Niobrara A Bench @ 7027' - 7029' (2 SPF) (28 New holes). POOH and RDMO PSI Wireline. MIRU HES. Well was loaded @ open. (Break 4526 psi @ 2.0 BPM) Pumped 120 bbls FE-1A Pad, 1551 bbls of Slickwater pad, 143 bbls of 20# pHaser pad, 167 bbls of 1.0 ppg 20/40 slurry with 20# pHaser, 785 bbls of 2.0 ppg 20/40 slurry with 20# pHaser, 874 bbls of 3.0 ppg 20/40 slurry with 20# pHaser, 289 bbls of 4.0 ppg 20/40 slurry with 20# pHaser, 106 bbls of 4.0 ppg SB Excel 20/40 slurry with 20# pHaser. Flushed well to top of the Niobrara B perf (114.1 bbls) Shutdown (ISDP 3946 psi) (FG 0.99). Fluid contained the following chemicals: .6 gpt CL-23, 1.0 gpt BA-20, 2.0 gpt GasPerm 1100, 1.25 gpt Clayfix III, 0.5 - 3.0 gpt Vicon NF, 0.15 - .75 gpt CAT 3, 2.0 gpt FR-66, 22 ppt WG-18 1.0 gpt Losurf-100 (238360 lbs 20/40 Ottawa) (12000 20/40 SB Excel. RD HES. MTP = 4825 psi, ATP = 4663 psi, AIR = 45.5 bpm. Pressure response was negative for entire treatment. Treatment went good.	3/8/2012
3/21/2012	ITP- no tubing, ICP-00 psi, MIRU, blow well down to FBT, ND frac valve and NU BOP. TIH w/ 228 jts. of 2 3/8" J-55 *rd EUE production tubing, tagged sand fill @ 7,250' w/15' in on jt. #228. POOH 12 jts.. Leaving 216 jts. in the hole. Drain lines and shut in for the night.	3/21/2012
3/22/2012	ITP-0, ICP-0, ISCP-0. TIH w/ 12 jts 2 3/8" J-55 *rd EUE production tubing, tagged sand fill @ 7,250.18' w/ 228 jts, RU circulation equipment, broke circulation, washed down tagging plug @ 7,260' KB w/ same jt.. RU power swivel, break circulation and drilled out plug and push it down tagging sand fill below Codell @ 7,299.03' KB w/229 jts, wash and push plug down to PBDT @ 7,473' KB w/234 jts . Circulate hole clean, RD power swivel and lay down 5 jts. TOO to derrick w/ 229 jts, lay down tools, PU 2 3/8" NC/SN. TIH out of derrick w/ 229 jts, land tubing w/ 229 jts-7,299.03', 1-12', NC/SN-1.60', and 8' adj. KB. Tubing is landed @ 7,320.63' (13.37' above Codell). ND BOP NU WH, broached to seatnipple w/1.901" broach, isolate well, RDMOL	3/22/2012

Swab, 6/13/2014 00:00					
Job Category LOE	Primary Job Type Swab	Start Date 6/13/2014	End Date 6/13/2014	Objective FISH PLUNGER	

Daily Operations		
Start Date	Summary	End Date
6/13/2014	Core Tech RIH w/ 2" JDC and fished top plunger @4477, Fished TWNG @4478, Fished dual stage @4480, fished bottom plunger @7430, dropped new slide and sleeve bypass plunger, RIH w/ 2"JDC and set new ferguson dual stage @4455, dropped new TWNG and 2 3/8" PCS AS.RDMO.	6/13/2014

Swab, 5/26/2015 00:00					
Job Category LOE	Primary Job Type Swab	Start Date 5/26/2015	End Date 5/26/2015	Objective FISH PLUNGER	

Daily Operations		
Start Date	Summary	End Date
5/26/2015	Core Tech RIH w/ 2" JDC and fished plunger @4451, fished TWNG @4452, fished 2 stage @ 4454, fished bottom plunger @ 7316, dropped new slide and sleeve bypass plunger, RIH w/ 2" JDC and set new ferguson dual stage (tubing stop style) @4449', dropped new TWNG and new PCS AS.	5/26/2015



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Job

Swab, 5/13/2016 07:00

Job Category LOE	Primary Job Type Swab	Start Date 5/13/2016	End Date 5/13/2016	Objective REBUILD 2 STAGE
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Daily Operations

Start Date	Summary	End Date
5/13/2016	PUMPER CAUGHT THE PLUNGER CORE TECH RIH W/ 2" JUC AND FISHED TWNG @4434 FERGUSON STYLE 2 STAGE @ 4435 BOTTOM PLUNGER @ 7304 DROPPED NEW SLIDE AND SLEEVE BYPASS PLUNGER RIH W/ 2" JDC AND SET NEW FLOWCO 2 STAGE @ 4400 DROPPED NEW TWNG AND NEW PAD PLUNGER	5/14/2016

WBI - Plug Set Other Operator, 3/8/2018 06:00

Job Category Completion/Workover	Primary Job Type WBI - Plug Set Other Operator	Start Date 3/8/2018	End Date 3/9/2018	Objective TEST TUBING, SET CIBP ABOVE THE TOP PERFS, PRESSURE TEST CASING AND INS TALL 5K WELL HEAD FOR WBI
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Daily Operations

Start Date	Summary	End Date										
3/8/2018	ITP 300 PSI, ICP 500 PSI, ISCP 0 PSI, WELL WAS SHUT IN, MIRU RANGER RIG 03, BLEW DOWN WELL TO RIG TANK, FUNCTION TESTED BOP, CONTROLLED WELL WITH 50 BBL OF CLAYTREAT/BIOCIDE WATER, ND PRODUCTION TREE, NU BOP, PICKED UP TAG JTS, TAGGED WITH 5 JTS 137', LD TAG JTS, TALLY OUT OF THE HOLE WITH 2 3/8 J-55 4.7 PRODUCTION PIPE TO DERRICK, TUBING WAS LANDED AT 7281.90 KB WITH 229 JTS 1-12' SUB AND NC/SN OF 2 3/8 J-55 4.7, MIRU PICK TESTER, PU STS'S 3 7/8 BLADE BIT AND 4 1/2 SCRAPER DRESSED FOR 10.5 CASING, RIH WITH PRODUCTION PIPE DOWN TO 7276' WITH 229 JTS, RD HYDRO TESTER, ALL PIPE TESTED GOOD, LD 13 JTS ON THE GROUND, PULLED 216 JTS TO DERRICK, LD BIT AND SCRAPER AND SHUT DOWN, DRAIN PUMP AND LINES, SI AND SECURE WELL FOR THE NIGHT, SD.	3/8/2018										
3/9/2018	ICP 50 PSI, ISCP 0 PSI, BLEW DOWN CASING TO WORK TANK, MIRU C&J WIRE LINE, PU 4 1/2 10K CIBP, RIH WITH WIRE LINE, SET CIBP AT 6977' CORRELATED WITH LOGS, SPOTTED 2 SACKS OF CEMENT ON TOP OF THE PLUG, RD WIRE LINE, PU 3 7/8 CONE BIT, PUMP OFF BIT SUB AND SEAT NIPPLE, RIH WITH PRODUCTION PIPE DOWN TO 6920.17' WITH 217 JTS, RU CIRCULATING EQUIPMENT, CIRCULATED OIL AND GAS OUT PUMPING DOWN TUBING, PRESSURE TESTED CASING AND PLUG UP TO 2000 PSI, HELD GOOD FOR 15 MINUTES, RU SWAB LUBRICATOR, MADE A BROACH RUN DOWN TO SEAT NIPPLE (1.901"), LD BROACH, PU 2" SWAB CUPS, MADE A SWAB RUN DOWN TO 500', RD SWAB LUBRICATOR, LD 4 JTS, ND BOP, INSTALLED 5K TOP FLANGE AND 2 3/8 MASTER VALVE, LANDED TUBING AT 6791.81 KB WITH 213 JTS, SEAT NIPPLE, PUMP OFF BIT SUB AND 3 7/8 CONE BIT, MIRU PICK TESTERS, TORQUE AND TESTED WELL HEAD UP TO 5000 PSI, RECORDED THE TEST FOR 15 MINUTES, RACK PUMP AND TANK, RDMOL. FINAL REPORT. TUBING DETAILS <table style="margin-left: 20px; border: none;"> <tr><td>KB</td><td style="text-align: right;">8.00</td></tr> <tr><td>213 JTS 2 3/8 J-55 4.7</td><td style="text-align: right;">6780.61</td></tr> <tr><td>SEAT NIPPLE</td><td style="text-align: right;">1.20</td></tr> <tr><td>PUMP OFF BIT SUB</td><td style="text-align: right;">2.00</td></tr> <tr><td>TOTAL</td><td style="text-align: right;">6791.81</td></tr> </table> NOTE: SENT 16 GOOD JTS OF 2 3/8 J-55 TO ATP'S YARD TO PDC'S INVENTORY.	KB	8.00	213 JTS 2 3/8 J-55 4.7	6780.61	SEAT NIPPLE	1.20	PUMP OFF BIT SUB	2.00	TOTAL	6791.81	3/9/2018
KB	8.00											
213 JTS 2 3/8 J-55 4.7	6780.61											
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