



Well History

Well Name: Cockroft 34-11

API 05123223420000		Surface Legal Location SWSE 11 6N 64W		Field Name Wattenberg		State CO		Well Configuration Type Vertical	
Ground Elevation (ft) 4,690.00	Original KB Elevation (ft) 4,702.00	KB-Ground Distance (ft) 12.00	Spud Date 9/11/2004 00:00	Rig Release Date 9/16/2004 00:00	On Production Date 10/11/2004	Abandon Date			

Daily Operations

Start Date	Summary	End Date
1/25/2013	<p>> Check wellhead pressures. Production casing 50 psig.</p> <ul style="list-style-type: none"> > Make up 3.875" blade bit and 3.75" scrapper with 4.0" spring loaded bands. > Trip in the well hydrotesting to 6,829'. > Trip bit and scrapper out of the well. > Make up RMOR retrievable bridge plug. > Trip in and set plug at 6,778'. > Stand back 3 stands > Roll hole with 2 % kcl water. > Dump two sacks of sand. > Trip tubing out of the well. > Nipple down the bope. > Nipple up the frac valve. > Hydrotest the casing to 5,000 psig. GOOD TEST. > Nipple up the flanges for 1.25" tubing. > Max pull on 4.5" { 10.5 #/ft, m-65 } casing - 142,000 lbs. > Casing slips free at 88,000 lbs of pull. > Complete nipple up of wellhead for 1.25" tubing. > Secure well, shut down for the evening. 	1/25/2013
1/26/2013	<p>> Checkk wellhead pressures. Annulas - 0 psig.</p> <ul style="list-style-type: none"> > Trip 1.25" tubing in the well to 1,865'. > Top of cement - +/- 1,890'. > Circulate for 3.5 hours, > Have safarty meeting with all personal on location. > Mix and pump 10 bbl mud clean. > Mix and pump 100 bbl +/- 365 sx of Premium-lite cement, with 3.0% bentonite. > Cement was mixed at 13.5 ppg, yeild - 1.55 and 7.87 gals per sx. > Cement at surface. > Pump additional 10 bbl of slurry. > Shut down, break out Baker iron for wash up. > Trip 1.25" out of the well. > Nipple down flanges > Nipple up the wellhead for logging. > Wash out tubing. > Secure well, shut down for the evening. 	1/26/2013
1/28/2013	<p>> Check wellhead pressures. Production casing - 0 psig.</p> <ul style="list-style-type: none"> > Move in and rig in Superior Well Service logging. > Make up cement bond log tool. > Run wireline in the well and log from 2,150' to surface. > Cement bond is good. > Trip wireline out of the well. > Make up retrieving head. > Trip tubing in the well and tag fill at +/- 6,770'. > Break circulation. > Tag plug and circulate for 45 minutes. > Latch onto the plug. > Trip plug out of the well. > Wait on perforators. > Move in and rig in Superior Well service to re-perferate the codell. <li style="background-color: #ffff00;">> Run perforating gun in the well and perferate with { 19 gram, 120 degree phasing, .41" hole } at 6,852' - 6,860'. <li style="background-color: #ffff00;">> 24 holes total. > Trip wireline out of the well. > Secure well, shut down for the evening. 	1/28/2013
2/1/2013	<p>Codell ReFrac: MIRU HES. Well took 60 bbls to load. (Break 2114 psi @ 5.0 BPM), Pumped 119 bbls of FE-1A pad, 595 bbls of 26# pHaser pad, 286 bbls of 1.0 ppg 20/40 slurry with 26# pHaser, 476 bbls of 2.0 ppg 20/40 slurry with 26# pHaser, 643 bbls of 3.0 ppg 20/40 slurry with 26# pHaser, 482 bbls of 4.0 ppg 20/40 slurry with 26# pHaser, 89 bbls of 4.0 ppg SB Excel slurry with 26# pHaser. Flushed well to top of the Codell perf (109.3 bbls) Shutdown (ISIP 3376 psi) (FG .925) Fluid contained the following chemicals: .30 gpt be-7, .6 gpt CL-23, .5 gpt BA-20, 1.5 gpt GasPerm 1100, .5 gpt Cla-web, 3.0 - 5.0 gpt Vicon NF, 0.25 - .75 gpt CAT 3, 6.0 gpt WG-18 @ 22 Ppt Losurf-100, FE-1A @ 20 gpt (216,670 lbs Ottawa 20/40) (8,000 lbs 20/40 SB Excel). RD HES. MTP = 3570 psi, ATP = 3362 psi, AIR = 16.8 bpm. Pressure response was slightly positive for entire treatment.</p>	2/1/2013



Well History

Well Name: **Cockroft 34-11**

API 05123223420000		Surface Legal Location SWSE 11 6N 64W		Field Name Wattenberg		State CO		Well Configuration Type Vertical	
Ground Elevation (ft) 4,690.00	Original KB Elevation (ft) 4,702.00	KB-Ground Distance (ft) 12.00	Spud Date 9/11/2004 00:00	Rig Release Date 9/16/2004 00:00	On Production Date 10/11/2004	Abandon Date			

Daily Operations

Start Date	Summary	End Date
2/1/2013	<p>Niobrara Hybrid: RIH with PSI wireline using High pressure control unit and grease head. Set RMOR Cast Iron Flowthru 10k frac plug @ 6,790' 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 @ 6,692'- 6,700' (3 SPF) Niobrara "A" Bench @ 6,586' - 6,588' (2 SPF) (28 New holes); POOH and RDMO PSI Wireline.</p> <p>MIRU HES. Well was loaded @ open. (Break 3769 psi @ 5.0 BPM) Pumped 119 bbl active pad, Pumped 1552 bbls of Slickwater pad, 151 bbls of 20# pHaser pad, 166 bbls of 1.0 ppg 20/40 slurry with 20# pHaser, 786 bbls of 2.0 ppg 20/40 slurry with 20# pHaser, 834 bbls of 3.0 ppg 20/40 slurry with 20# pHaser, 244 bbls of 4.0 ppg 20/40 slurry with 20# pHaser, 129 bbls of 4.0 ppg SB Excel 20/40 slurry with 20# pHaser. Flushed well to top of "B" bench (106.7 bbls) Shutdown (ISDP - 3,429 psi) (FG .953). Fluid contained the following chemicals: .30 gpt be-7, .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 (238,480 lbs 20/40 Ottawa) (12,000 20/40 SB Excel. RD HES. MTP = 4,810 psi, ATP = 4,436 psi, AIR = 51.0 bpm. Pressure response was flat for entire treatment.</p>	2/1/2013
2/21/2013	<p>ICP-250 psi open flowing to sales line, ISCP-0 psi, MI&RU Bayou Rig #004. ND production equipment, RU pump line to frac valve and blow well down to FBT, and control well w/40 bbls Claytreat/Biocide water. ND frac valve, install original Well Head Inc 3K mandrel style tbg head. NU BOP, PU new 2 3/8" standard seat nipple and RMOR's 3 3/4" x 3 1/8" x 5.90' burn shoe. Spot in float w/prod. tbg.. TIH tallying and picking up 2 3/8" 4.7# J-55 EUE production tbg, tagging fill @ 6,702' w/15' out on jt. #215. RU power swivel. Broke circ. and washed down tagging flow thru plug @ 6,779.19' w/217 jts., tools and KB. Drilled out plug and pushed to bottom. Tagged hard @ 6,980' w/223 jts.. Rolled clean leaving 130' of RH.. RD power swivel. LD 4 tag jts. and POOH to the derrick 12 jts.. Leaving EOT @ 6,457.09' w/207 jts.. Drain lines, shut in and secured the well for the night.</p>	2/21/2013
2/22/2013	<p>ITP-vacuum, ICP-vacuum, ISCP-0. POOH to the derrick w/207 jts. and LD tools. PU new seat nipple and notch collar. MIRU Pick testers. TIH testing to 6,000 psi. 219 jts. of 2 3/8" 4.7# J-55 EUE prod. tbg.. All jts. tested good. RD tester. Landed tubing 9.66' above Codell perf's @ 6,842.34' w/219 jts.-6,830.74', NC/SN-1.6', and 10' adj. KB.. ND BOP and NU WH w/master valve. RU sand line, packing head and lubricator to master vavle. RIH w/1.901" broached and broached to seat nipple. POOH and lay down broach and PU swab. Made 4 swab runs and recovered 20 bbls. RDMOL.</p> <p>IFL=1,400' FFL=2,100'</p> <p>Initial press.=vacuum Final press.=small blow.</p>	2/22/2013
4/2/2014	<p>Core tech RIH w/2" JDC and fish plunger @6824, fish plunger @6825 (pulling through parafin), B and J Services hot oiled the tubing with 20 bbls of oil, Core Tech RIH w/ 2 3/8" knife and cut to 2000', RIH w/2" JDC and fished standing valve @6826, RIH w/ 1.5" blind box and tagged @6934, dropped test valve. B and J services pressure tested tubing to 1500psi (held for 15 minutes) Core Tech RIH w/2" JDC and fished test valve from 6526 POOH and RD</p>	4/2/2014
4/2/2014		4/3/2014

Swab, 9/6/2017 06:00

Job Category LOE	Primary Job Type Swab	Start Date 9/6/2017	End Date 11/22/2017	Objective SWAB
---------------------	--------------------------	------------------------	------------------------	-------------------

Daily Operations

Start Date	Summary	End Date
9/6/2017	ITP300/ICP425 FL3900 8RUNS FTP100/FCP180 FL5500 25BBLS 10 OIL/15WATER	9/6/2017
9/8/2017	ITP240/ICP270 FL4500 6RUNS FTP100/FCP120 FL5800 10BBLS 4 OIL/6WATER	9/8/2017
9/12/2017	ITP190/ICP255 FL3900 5RUNS FTP120/FCP170 FL5500 15BBLS 5 OIL/10 WATER	9/12/2017
10/13/2017	ITP250/ICP580 IFL3800 FTP200/FCP300 FFL5500 6RUNS/16BBLS 6 OIL/10WATER	10/13/2017
10/18/2017	ITP500/ICP630 IFL3900 FTP BLOW/FCP500 FFL4300 2 RUNS/10BBLS 5 OIL/5 WATER	10/18/2017
10/19/2017	ITP200/ICP500 IFL4000 FTP200/FCP220 FFL4800 2RUNS/10BBLS 6 OIL/4WATER	10/19/2017