



Well History

Well Name: **Brown 200D**

API 05123315670000		Surface Legal Location SENW 20 4N 67W		Field Name Wattenberg		State CO		Well Configuration Type Directional	
Ground Elevation (ft) 4,900.00	Original KB Elevation (ft) 4,914.00	KB-Ground Distance (ft) 14.00	Spud Date 8/3/2010 20:15	Rig Release Date 8/8/2010 03:00	On Production Date 9/1/2010	Abandon Date			

Daily Operations

Start Date	Summary	End Date												
8/31/2010	<p>Niobrara Hybrid: RIH with HES wireline using High pressure control unit and grease head. Set RMOR Cast Iron Flowthrou 10k frac plug @ 7330' 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 @ 7212'-7220' (3 SPF) Niobrara A Bench @ 7124' - 7126' (2 SPF) (28 New holes). POOH and RDMO HES Wireline.</p> <p>MIRU HES. Well was loaded @ open. (Break 3222 psi @ 2.3 BPM) Pumped 118 bbls FE-1A Pad, 1548 bbls of Slickwater pad, 144 bbls of 20# pHaser pad, 167 bbls of 1.0 ppg 30/50 slurry with 20# pHaser, 786 bbls of 2.0 ppg 30/50 slurry with 20# pHaser, 832 bbls of 3.0 ppg 30/50 slurry with 20# pHaser, 310 bbls of 4.0 ppg slurry with 20# pHaser, 85 bbls of 4.0 ppg SB Excel 20/40 slurry with 20# pHaser. Flushed well to top of the Niobrara B perf (112.1 bbls) Shutdown (ISDP 3211 psi) (FG .87). 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 (238340 lbs 30/50) (12000 lbs 20/40 SB Excel). RD HES. MTP = 4688 psi, ATP = 4271 psi, AIR = 48.4 bpm. Pressure response was flat for entire treatment. Treatment went good.</p>	8/31/2010												
10/11/2010	<p>M&M Excavation hauled off the drilling solids (400 Yds). The solids were hauled to Robert Easton 4N 65W Sec 12 NW/4. Rocky Mountain Energy hauled of the liquids (80 bbls). The liquids were hauled to Bernhardt Ag. 4N 67W Sec 13 SE/4. Location is reclaimed.</p>	10/12/2010												
1/26/2011	<p>MIRU Ensign #304. STC 500 psi, blow well down to rig tank, controlled well with 80 bbls, circulated gas out, PU power swivle, TIH picking up production tbg, tagged sand fill at 7201' KB and tools w/222 jts, break circulation; washed down tagging frac plug at 7330' KB tools w/226 jts, drilled up plug and chased to 7450' KB and tools w/230 jts tagging sand again, continue washing and chasing plug to 7,567' KB and tools w/233 jts (PBSD), rolled hole clean, POOH laying down 5 jts. SI and Isolated well. SDFN</p> <p>DC:\$4,708.00</p>	1/26/2011												
1/27/2011	<p>Ensign #304. SIC 0, SIT 0. POOH standing back remaining 228 jts, LD tools, PU sn/nc, TIH w/tbg, land tbg in WH at 7,427.18' KB (13.82' above top Codell perf), ND BOP, NU WH, drop standing valve chased to seatnipple w/1.901" broach, isolate well, RDMO.</p> <table border="0" style="width: 100%;"> <tr> <td>Tbg detail:</td> <td>11.0' adj KB</td> <td>11.0'</td> </tr> <tr> <td>228 jts 2 3/8" 4.7# J-55 EUE 8rd</td> <td>7406.58'</td> <td>7417.58'</td> </tr> <tr> <td>1-8' 2 3/8" tubing sub</td> <td>8.00'</td> <td>7425.58'</td> </tr> <tr> <td>Seatnipple/notched collar</td> <td>1.60'</td> <td>7427.18' EOT KB</td> </tr> </table>	Tbg detail:	11.0' adj KB	11.0'	228 jts 2 3/8" 4.7# J-55 EUE 8rd	7406.58'	7417.58'	1-8' 2 3/8" tubing sub	8.00'	7425.58'	Seatnipple/notched collar	1.60'	7427.18' EOT KB	1/27/2011
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Wellbore Integrity, 10/1/2015 06:00

Job Category Completion/Workover	Primary Job Type Wellbore Integrity	Start Date 10/1/2015	End Date 3/30/2016	Objective Test tubing, set RBP on the casing, test casing, Install 5K well head on casing for WBI. Return to Production
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Daily Operations

Start Date	Summary	End Date												
10/1/2015	<p>ITP 1000 psi, ICP 1100 psi, ISCP 0 psi, well was shut in, MIRU Ensign Rig 339, blow down well to work tank, control well with 50 bbl of clay treat/biocide water, ND master valve and production tree, NU BOP, function test BOP, PU tag jts, tagged with 5 jts 154', LD tag jts, POOH 2 3/8 production pipe to derrick, tally out, tubing was landed at 7430.45 KB with 228 jts 1-8 ft sub and NC/SN, MIRU Pick testers, PU STS's 3 7/8 blade bit and 4 1/2 scraper, test in the hole with production pipe, RD tester, all pipe tested good, TOO to derrick, LD bit and scraper, PU STS's 4 1/2 TC RBP, ran 100 jts in the hole, SI and secure well for the night, SD.</p>	10/1/2015												
10/2/2015	<p>ITP 0 psi, ICP 0 psi, ISCP 0 psi, open the well, finish running in the hole with 2 3/8 production pipe and RBP, set RBP at 7076.70 KB with 218 jts in the hole 15' out on jt 218, LD 1 jt on the ground, circulated oil and gas out, pressure tested casing and plug up to 2000 psi, held good for 15 minutes, LD 4 jts, spotted 2 sacks of sand on top of the plug, LD 5 more jts on the ground, landed tubing at 6774.40 KB with 208 jts of 2 3/8 J-55 4.7 seat nipple and retrieving head, ND BOP and 3K well head, Installed 5K well head on the casing, close the well, rack pump and tank, clean up location, RDMOL.</p> <table border="0" style="width: 100%;"> <tr> <td colspan="2">Tubing details</td> </tr> <tr> <td>KB</td> <td>12.00</td> </tr> <tr> <td>208 jts 2 3/8 J-55 4.7</td> <td>6759.40</td> </tr> <tr> <td>Seat nipple</td> <td>1.00</td> </tr> <tr> <td>Retrieving head</td> <td>2.00</td> </tr> <tr> <td>Total</td> <td>6774.40</td> </tr> </table> <p>Left 20 good jts of 2 3/8 J-55 4.7 on the ground on location.</p>	Tubing details		KB	12.00	208 jts 2 3/8 J-55 4.7	6759.40	Seat nipple	1.00	Retrieving head	2.00	Total	6774.40	10/2/2015
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3/29/2016	<p>MIRU ENSIGN 354. SPOT IN BEAM. AND MIRU. RU PUMP AND TANK. ITP 0-PSI. ICP- 0-PSI. ISCP 0-PSI. OPEN WELL. ND WH. NU BOPS. PU 10 JTS AND TAGGED SAND. CLEAN OUT SAND FROM 7060' TO RBP AT 7076' CIRCULATE WELL CLEAN. DROP STANDING VALVE AND PRESSURE TEST TBG TO 2500# PSI. HOLD PRESSURE FOR 10 MINUTES AND GOT A GOOD TEST. RU LUBRICATOR AND RUIN IN AND FISH OUT STANDING VALVE. RELEASE RBP AND TOO to STANDING BACK 100 JTS. SWI. SDFN. CREW TO YARD.</p>	3/29/2016												