



Activity - Chronology by Job
Well Name: Double Willow Unit 8607A G02 497

API/UWI 05103104730000	Related POD G02 497	State CO	County RIO BLANCO	Permit Number
Original Spud Date 9/14/2004 18:30	Total Depth (ftKB) 11,875.0	PBTD (All) (ftKB)	Original KB Elevation (ft) 7,270.34	Ground Elevation (ft) 7,270.34

Temporary Abandon

Job Category Abandonment	Primary Job Type Temporary Abandon	Secondary Job Type	Start Date 1/1/2020 00:00	End Date
AFE Number 03-2020-1331	Total AFE Amount (Cost) 36,000	Total Field Estimate (Cost) 74,251	AFE - Field Est (Cost) -38,251	

Summary

Daily Operations

Rpt #	Start Date	End Date	Day Total (Cost)	Cum To Date (Cost)	Summary
1	8/25/2020	8/26/2020	2,270	2,270	Duco Rig #3 Well: SG 8607C-23 (L24 Pad) AFE #03-20-1331 (T/A) Daily Cost: \$2,795.00 -RigUp: \$1,445.00 -Duco: \$450.00 -Big D's: \$500.00 -WCO: \$400.00 Cumulative Cost: \$2,795.00 JSA (Caerus 1, Duco 8, Perforators 1, BLM 1)-check pressures on well (SITP: N/A / SICP: 0psi / SIBHP: 0psi)-Move Rig/Cmt equipment from the L24 to the G02 pad-take fence down around well-spot Rig/Cmt equipment-RUWOR-secure equipment & location.
2	8/26/2020	8/27/2020	4,478	6,748	Duco Rig #3 Well: Double Willow Unit 8607A (Go2 Pad) Days on #2 AFE #03-20-1331 (T/A) Daily Cost: \$4,848.00 -RigUp: \$1,445.00 -PRS: \$1,702.54 -Big D's: \$1,700.00 Cumulative Cost: \$7,643.00 JSA (Caerus 1, Duco 7, PRS 2, Perforators 1)-check pressures on well (SITP: 0psi / SICP: 0psi / SIBHP: 0psi)-NDWH (4" 10M)-NUBOP & Spool (7" 5M & 4" 10M x 7" 5M)-RU floor & handling equipment-unland tbg hanger (65K)-RU Tbg scanner-TOOH LD all tbg-came out with 302 jts Total (209 YB / 62 BB / 31 RB – minor scale on outside of tbg)-RUWL-MU 3.625" JB/GR-RIH to 7970'-POOH-MU 4.5" CIBP (3.5" OD)-RIH & set @7,950' (50' above TP)-POOH-RDWL-pressure test csg to 350psi (FAILED / injection rate of 5bbls/min @100psi)-TIH open ended (2 3/8" L-80)-sh



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3	8/27/2020	8/28/2020	6,458	13,205	<p>JSA (Caerus 1, Duco 6, KLX 1)-check pressures on well (SITP: 0psi / SICP: 0psi / SIBHP: 0psi) -TOOH (25 stands)-MU 32A PKR-TIH to 5,320'/163 jts-start searching for holes in Csg (Test Results Below / had communication w/BH)-TOOH-make phone calls-TIH open ended (2 3/8" L-80)-tag CIBP @7,950'/244 jts-circulate 40 bbls (Pump Rate: 3.5 bbls/min - Return Rate: 1-1.5 bbls/min)-Pump Cmt Plug #1 (12sks/2.45 bbls slurry-30 bbls disp. / Est. Cmt: 7,792'-7,950' on top CIBP inside 4.5")-LD 6 jts-TOOH 30 stands (EOT @5800')-shut well in-secure equipment & location.</p> <p align="center">Pressure Test Results (32A PKR)</p> <table> <tr> <th>JT</th><th>Time</th><th>PKR</th><th>Above/Below</th><th>Pressure</th><th>Loss</th></tr> <tr> <td>163</td><td></td><td>5320'</td><td>Above</td><td>3 bbls/min @100psi Injection Rate</td><td></td></tr> <tr> <td>163</td><td>5min</td><td>5320'</td><td>Below</td><td>500 psi</td><td>0psi</td></tr> <tr> <td>76</td><td>5min</td><td>2475'</td><td>Below</td><td>540 psi</td><td>0psi</td></tr> <tr> <td>38</td><td>5min</td><td>1249'</td><td>Below</td><td>540 psi</td><td>0psi</td></tr> <tr> <td>20</td><td></td><td>660'</td><td>Below</td><td>3 bbls/min @100psi Injection Rate</td><td></td></tr> <tr> <td>20</td><td>5min</td><td>660'</td><td>Above</td><td>510 psi</td><td>10psi</td></tr> <tr> <td>24</td><td></td><td>792'</td><td>Above</td><td>3 bbls/min @100psi Injection Rate</td><td></td></tr> <tr> <td>24</td><td>2min</td><td>792'</td><td>Below</td><td>500psi</td><td>350psi</td></tr> <tr> <td>26</td><td>5min</td><td>858'</td><td>Below</td><td>5300psi</td><td>0psi</td></tr> <tr> <td>22</td><td>5min</td><td>726'</td><td>Above</td><td>500psi</td><td>0psi</td></tr> </table> <p>NOTE: Holes from 726'-858'</p>	JT	Time	PKR	Above/Below	Pressure	Loss	163		5320'	Above	3 bbls/min @100psi Injection Rate		163	5min	5320'	Below	500 psi	0psi	76	5min	2475'	Below	540 psi	0psi	38	5min	1249'	Below	540 psi	0psi	20		660'	Below	3 bbls/min @100psi Injection Rate		20	5min	660'	Above	510 psi	10psi	24		792'	Above	3 bbls/min @100psi Injection Rate		24	2min	792'	Below	500psi	350psi	26	5min	858'	Below	5300psi	0psi	22	5min	726'	Above	500psi	0psi
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4	8/28/2020	8/29/2020	1,445	14,650	<p>Duco Rig #3 Well: Double Willow Unit 8607A (G02 Pad) Days on #4 AFE #03-20-1331 (P&A) Daily Cost: \$1,445.00 -RigUp: \$1,445.00 Cumulative Cost: \$19,615.00</p> <p>JSA (Caerus 1, Duco 6)-check pressures on well (SITP: 0psi / SICP: 0psi / SIBHP: 0psi)-TIH & tag TOC @7,800'/240 jts-LD tag jt (EOT @7,792')-Est. circulation (15 bbls)-Mix & Pump 14.5 bbls 9# Mud from 6,851'-7,792'-LD 29 jts (EOT @6,851')-Pump Cmt Plug #2 (25sks/5.1 bbls slurry-25 bbls disp. / Est. Cmt: 6,522'-6,851' inside 4.5")-LD 10 jts-TOOH 25 stands (EOT @4,900')-WOC (4 hrs / Hard Sample)-TIH & tag TOC @6,509'/200 jts-LD tag jt (EOT @6,494')-Mix & Pump 8 bbls 9# Mud from 5,981'-6,494'-LD 16 jts (EOT @5,980')-Pump Cmt Plug #3 (12sks/2.45 bbls slurry-22.5 bbl disp. / Est. Cmt: 5,822'-5,980' inside 4.5")-LD 5 jts -TOOH 25 stands (EOT @4,171')-shut well in-secure equipment & location.</p>																																																																		
5	8/31/2020	9/1/2020	1,445	16,095	<p>JSA (Caerus 1, Duco 6, Perforators 1, BLM 1)-check pressures on well (SITP: 0psi / SICP: 0psi / SIBHP: 0psi)-TIH & tag TOC @5790'/178 jts-LD tag jt (EOT @5770')-Mix & Pump 7.5 bbls 9# Mud from 5,300'-5,770'-LD 14 jts (EOT @5,314')-Pump Cmt Plug #4 (13sks/2.66 bbls slurry-20 bbls disp. / Est. Cmt: 5,143'-5,314' inside 4.5")-LD 6 jts (EOT @5,117')-reverse tbq clean (25 bbls)-Mix & Pump 40 bbls 9# Mud from 2,557'-5,117'-LD 79 jts-TOOH 39 stands-RUWL-MU squeeze gun (3 1/8" / 12 GR / .34" EHD / 22" PEN)-RIH & tag TOC @5,060'-pull up & shoot 4 holes @2,510' (50' below surface shoe)-POOH-MU 2nd squeeze gun-RIH & shoot 4 holes @910'-POOH-RDWL-TIH open ended to 2,567'/79 jts-shut Csg valve-establish circulation down Tbg & up 9 5/8" (30 bbls)-shut BH valve & pump injection through holes to ensure holes are open (due to bad csg from 726'-858')-Pump Cmt Plug #5 (137sks/28 bbls slurry-8.5 bbls disp. / Est. Cmt: 2180'-2,567' inside both 4.5" & 9 5/8" across surface shoe)-LD 9 jts-TOOH 35 stands-WOC (3 hrs / Hard sample)-TIH open ended & tag TOC @1383'/43 jts (1,184' of cmt inside 4.5" / Onsite BLM approved tag depth)-LD 31 jts-TIH 14 stands (EOT @1,373')-Mix & Pump 7.6 bbls 9# Mud from 960'-1,373'-LD 13 jts & add 10' pup (EOT @960')-Pump Cmt Plug #6 (117sks/24 bbls slurry-2.2 bbls disp. / Est. Cmt: 590'-960' inside both 4.5" & 9 5/8")-LD 11 jts-TOOH 9 stands-shut well in-secure equipment & location.</p>																																																																		



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Daily Operations

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6	9/1/2020	9/2/2020	58,156	74,251	<p>Duco Rig #3 Well: Double Willow Unit 8607A (G02 Pad) Days on #6 AFE #03-20-1331 (P&A) Daily Cost: \$53,661.00 -RigUp: \$1,445.00 -Duco: \$52,215.00 Cumulative Cost: \$75,321.00</p> <p>JSA (Caerus 1, Duco 6, Perforators 1, BLM 1)-check pressures on well (SITP: N/A / SICP: 0psi / SIBHP: Slight Vacuum)-TIH open ended & tag TOC @748'/23 jts-circulate well clean (15 bbls)-pressure test csg to 520psi for 15min. (0psi loss / Pass / No communication with BH)-bleed pressure off-Pump Cmt Top Off (12sks/2.45 bbls slurry-2.2 bbls disp. / Est. Cmt: 590'-748' inside 4.5")-LD 6 jts (EOT @554')-reverse tbg clean-Mix & Pump 8 bbls 9# Mud from 75'-554'-LD all tbg-RUWL-MU squeeze gun (3 1/8" / 12 GR / .34" EHD / 22" PEN)-RIH & shoot 4 holes @75'-POOH-RDWL-establish circulation down 4.5" & up 9 5/8"-RD floor & handling equipment-NDBOP-NUWH-Pump Surface Cmt Plug (45sks/9.2 bbls slurry from Surface-76' inside both 4.5" & 9 5/8")-RDWOR-move equipment away from well-dig out & cut off WH-top well off with 50sks/10.2 bbls slurry (used 2 sacks LCM)-weld cap & marker on-backfill-secure equipment & location-P&A Complete.</p> <p>NOTE: Onsite BLM approval not to retag Top Off Cmt (590'-748') due to a successful pressure test on csg & use of LCM in surface Cmt (due to well drinking cmt).</p>