



Job Summary

Whiting Oil & Gas Corp
1700 Broadway, Suite 2300
Denver, CO 80290
(303) 837-1661

Well Name: EQUITY FEDERAL 2-7

Tubing Repair
Job Started on 8/5/2014

WPC ID 8CO059803	API Number 0510307796	Field Name Rangely	County Rio Blanco	State CO	Operator WOGC	Gr Elev (ft) 5,380.00	Orig KB El... 5,394.00
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AFE Number	Total AFE Amount (Cost)	Supp Amt (Cost)	Total AFE + Supp Amount (Cost)	AFE-Field Estimate (Cost)
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Job Category Well Servicing/Maintenance	Job Type Tubing Repair	Working Interest (%) 100.00	Total Fid Est (Cost) 105,741.00	Start Date 8/5/2014	End Date
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Daily Operation Reports (6am to 6am)

Job Day (days)	Rpt #	Start Date	End Date	Summary
1.0	1.0	8/5/2014	8/6/2014	Tbg = 75 psi, Csg = 83 psi. Tail gate safety meeting on todays projects. RU hot oiler to tbg. Heat water to 180* start pumping down casing, pump 6 bbls down tbg and csg, both press up. Pressure up to 500#, let set for 20 min, bleed off to 320#, bump pressure back up to 500#, same results. Could be casing, packer or pump bleed off. Note: there is communication between tbg and csg, and this well has a packer so we have a hole in the tbg. Set rig tank, pump and racks, RU Red Rock well servicing. Remove horse head get ready to unseat pump. P/U on rods, only weighing 14,000 lbs, unable to unseat appears to be parted in 3/4". POOH with rods, found rods parted at 4157' (body break) - still in hole 775- 3/4" rods, 175' of 1" weight rods and 1-1/2 rod pump. Note: there are snap on guides that are worn down and also bunched up at couplings, there is rod wear and box wear along with major pitting and scale. Sample was taken to Champion. Lay down rod part and 4 bad rods, RU fishing tool with 5/8" and 3/4" slips, TIH with tools and 4- 1" rods, latch up on parted rods, pull up to 19,800 lbs and unseat rod pump. Lay down 2- rods, shut in for night and prepare to flush rods in the am.
2.0	2.0	8/6/2014	8/7/2014	Tbg = 0 psi, Csg = 0 psi. Tail gate safety meeting on todays projects. RU hot oiler, flush tbg. Note: only able to flush with 18 bbls. Continue working string due to heavy scale. POOH with 675' of rods, hit hard scale, work string for 30 min, hook up hot oiler to tbg and try to wash pump, only able to get 3 bbls by the pump. Work string back down 50' and continue working rod string, unable to get past org. point. Pull up to tight spot then take weight and back off rods. TOOH with rods, rods backed off at 3482'. RU BOPs, function test both rams. Break down well head, RU to pull pipe. Call packer hand to start in the AM. Note: Still seeing communication between tbg and packer, indicating a hole in the tbg. Able to pump down tbg and out casing at a rate of 2 bpm @ 200 psi.
3.0	3.0	8/7/2014	8/8/2014	Tbg = 0 psi, Csg = 0 psi. Removed pitman arms from unit and lowered the walking beam to have more room to work string. RU hot oiler, flush down casing @180*. Roll out scale and grit, all returns went to the rig tank. PU on tbg, release packer, start working packer OOH, only able to get 15' of travel on tbg. Reverse circulate and continue to work string, pulled out 2 jts then hung again. Reverse circulate down casing and up tbg @ 2.0 bpm. Work string for 3 hours, pkr loosened up and started OOH. Note: Next 540' pulled 15-20 over and was slow pulling through cemented area. Cont'd TOOH, reached rods that were backed off and started stripping OOH. Note: Last 18 - 7/8" rods show heavy pitting and side wear. All 3/4" rods so far have heavy pitting, corrosion and side wear. Tbg has large holes (included photos). Layed down 16 jts, 1370' left in the hole. SIFN. Will have a full count on rods and tbg to be replaced tomorrow night. Total water circulated was 165 bbl. Water returned to the rig tank was 115 bbl.
4.0	4.0	8/8/2014	8/9/2014	Tbg = Vac psi, Csg = Vac psi. Have tailgate meeting on todays work projects, Put down liner and build berm around back of rig to divert flow into the cellar. Continue to strip out of the hole, cutting rods as we pull tbg. Note: All 3/4" rods will need to be replaced along with 35 -7/8" rods. Last 2000' of the tbg will need to be replaced, along with quite a few in the derrick. Got pump and pkr to surface, shut in blind rams. Switched over to trip back in, RIH with 20 jts for kill string. Start stacking up all bad tbg & rods that were laid down. Clean up around cellar. Drain flow back tank and clean out. Plan to trip in with tbg on Monday morning and come out laying all pipe down. Shut in till Monday.
7.0	5.0	8/11/2014	8/12/2014	Tbg = 0 psi, Csg = 0 psi. Hold tailgate meeting on todays work projects. TIH with old pipe in the derrick, SOOH laying down all 2-7/8" tbg. Load and haul all tbg to Rangely yard and set on seals for inspection. Load up all junk tbg and haul to the yard for scrap pick up. Note: As soon as pipe gets inspected we will have an actual amount of how many will be scrapped and what can be put into inventory. Total pipe laid down 202 jts. Put all N-80 2-7/8" tbg on racks, tally all pipe, RIH with 20 jts for kill string and SIFN. Cleaned up location and suck out cellar.
8.0	6.0	8/12/2014	8/13/2014	Tbg = 0 psi, Csg = 0 psi. Hold tailgate meeting on todays work projects. TOOH with kill string. P/U bit and scraper, RIH with pipe off the rack. (Note: all N-80 2-7/8" pipe being picked up was tallied.) TIH to 5375' going slowly through cemented area, drag 3-4 times, but no hang up or stacking problems. Start through perf area at 6447', no drag or problems. Set down @ 6511' - solid set. Notified Denver, and decision made to get power swivel ready along with pump, tank & flow back equip to start clean out in the AM. Pulled up above perf area and SIFN.



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9.0	7.0	8/13/2014	8/14/2014	Tbg = 0 psi, Csg = 0 psi. Hold tailgate meeting on today's work projects. RU power swivel, pump and tank. Run lines, prepare to clean out. Start working down, fill has crusted top mostly soft, continue down reverse circulating, cleaned out to 6526' and hit hard surface. Pulled up and circulated clean, pulled up and continued working through perf areas 6470'-6522', set down again @ 6526', pulled up and cleaned out. At 6380' broke down power swivel and POOH. Note: Hole stayed full during clean out. Pumped 145 bbls of production water, recovered 125 bbls. Samples were taken from perfs and bottom clean out. Laid down bit and scraper, inspected equipment - everything ok. P/U BHA & 5-1/2 Dbl strung anchor, TIH to 5800' and SIFN. Note: BHA tbg design and tally will be on final report along with rod string and pump card.
10.0	8.0	8/14/2014	8/15/2014	Tbg = 0 psi, Csg = 0 psi. Hold tailgate meeting on today's work projects. Finish TIH with the tbg. Set anchor @'6440.11' with 12 tension pulled on it. ND BOP's, RU well head and convert over to trip rods. Trip rods out of the derrick into the hole. Come out laying down all bad 3/4" and 7/8" rods and stand back what was good. Remove all rod protectors on new rods, install spray metal couplings, P/U new 1-1/2" rod pump (2-1/2" X 1.500" RHAC with 18" screen). Stroke test pump with diesel. RIH with new 3/4" guided rods, P/U 7/8" guided rods and RIH. Pick up new polish rod and liner, install new stuffing box. Shut down tripping till morning. Cleaned and flushed out rig tank. Broke down hard line and racked up. Moved swivel and BOPs to 1-7. SDFN.
11.0	9.0	8/15/2014	8/16/2014	Tbg = 0 psi, Csg = 0 psi. Hold tailgate meeting on today's work projects. Finish TIH with rods, space out rod string. Rig up walking beam and connect pitman arms. Hook up horses head. Hook up hot oiler to flow line, pump production water @125 to the main tank battery, pump through treater and set up all surface equipment. Tie rig back, hook up to tbg. Stroke up pump and pressure test to 500#, held ok, Rebuilt well head, changed out valves and fittings, put unit on line. Clean up all hard lines and gather up matting boards and tubing equipment. Sent rig crew home till Wed. next week. Well on line. Rod string as follows: 1-1/2' X 28' polish rod w/ 1/34 X 18' liner, 1-1" X 4' pony, 1-1" X 8' pony, 60 -1' rods (1500') , 48- 7/8" slick rods (1200') , 25- 7/8" guided Norris D rods 625' (new) , 118- 3/4" guided Norris D rods 2950' (new), 5-1" slick rods for weight 125', Used 1-1/2" RHAC rod pump. Note: all guided rods are new Norris D w/ molded stealth guides. All slick rods need to be presumed as "D" rods unable to read due to wear.