

# Renegade Oil & Gas Company

## **Pugh #20-7**

**SE NE SECTION 20, T2S, R64W**

**WATTENBERG FIELD**

**ADAMS COUNTY, COLORADO**

### **WORKOVER REPORT**

5/6/09 – MIRU Toby's Oilfield Service rig #1. Remove unit head. Attempt to unseat pump with no success. Unscrew off hook's tool. TOH with rods. Unscrew wellhead. Release tubing anchor. Tag bottom with 13'. TOH with tubing to fluid. Swab. Continue pulling. Swab. Finish pulling. Cut pull rod. Rod and top of pull rod stuck in last joint. PBSD @ 8106' (no KB). SDFN.

5/7/09 – PU packer and tally 2 7/8" N-80 frac string in hole. Land in slip with 263 joints @ 7997'. Make one swab run recovering no fluid. TOH with 16 joints. Set packer @ 7498'. Install wellhead rubber. SDFD.

5/8/09 – RU Maverick Stimulation Company. Load annulus. Fracture stimulate J Sand formation down tubing with 595 barrels crosslinked gel water containing 41,080# 20/40 Ottawa sand and 9,200# 16/30 Versaprop at average 19 BPM and 4500 psi. Flush well with 51 barrels gelled water. No annular pressure throughout job. ISIP-1982#. 5 min.-1556#. 10 min.-1394#. 15 min.-1221#. 20 min.-1033#. 25 min.-840#. Well on vacuum in 45 minutes. Release packer. Pull and lay down in singles 247 joints frac string. SDFN.

5/11/09 – TIH with 16 joints frac string in derrick. TOH laying down. TIH with notched collar, SN and 262 joints 2 3/8" tubing. Tag at 8083' no KB. RU swab. SFL @ 300' over SN. EFL @ 300' over SN. Drop standing valve. Made 2 more runs – recovering all water. RD swab. RU hydrotester and TOH with tubing testing to 6500 psi. All joints tested good. RD tester. SDFN.

5/12/09 – TIH with bit and bulldog bailer with 6 joint cavity. Bail 26' to 8107' no KB. First foot soft – three feet hard than rest easy. TOH. Recover 2 joints sand. TIH with production tubing. Set anchor. Land tubing. EOT @ 8093' no KB. RU swab. Made 2 runs. FL @ 300' off SN. RD swab. SDFN.

5/13/09 – TIH with pump and rods. Seat pump. Hang on. Respace pump. Start unit check pump action. RDMO service rig. Later load well with 23 barrels. Good pump action to 300 psi.

Note – There has been some evidence that a casing problem exists in the well from past workovers but did not show up when working on the well this time. In the 5/2001 to recover a tubing fish from the well mud was noted in the recovered fish as well as after bailing. In 7/2004 mud was noted on the outside of the tubing on the bottom of the 42<sup>nd</sup> stand when pulling pipe. Several pump changes were performed when stuck pumps possibly due to mud occurred. Acid dumps were performed in an attempt to clean the well up.