

### Quiver Unit #3      API 05-061-06770-00

#### Well History, Casing Repair

07/24/19: MIRU CWS, unhang unit & unseat pump. Pull rods & pump out. Unpack wellhead & release AC, pull tubing to derrick. SDON.

07/25/19: RU Elite Testers & test tubing & tools in to 6000#, w/ none blown. Set RBP @ 4925', had some problems w/ trash while trying to set packer. Decide to pull packer out, spot 8' of sand on RBP & pull tubing & packer out. Ran back in w/ rebuilt packer & locate leak between 3757' & 3788'. Leak rate 1.20 BPM @ 150#. Pull packer up to 3647' & set. Shut tubing in overnight, SDON.

07/26/19: RU HSI Cementers, load & pressure up annulus to 300#. Load tubing w/ 6.5 BW & take inj rate of 2.5 BPM @ 500#. Mix & pump 200 sks of Class A cement w/ first 100 sks containing fluid loss. Shut down & clear pump & lines, start displacement, zone took first 9.75 bbls on vac. Start pumping @ 600#, displace a total of 15.3 bbls past packer. Staged on cement, holding 700#, wait 15 mins. Pressure up to 1200#, wait 5 mins. Pressure up to 1400#, wait 3 mins & release pressure on cement, held. Release pressure off backside & release packer. Reverse out short way w/ 30 BW. RD HSI & pull tubing & packer out. Shut well in & SDOWE.

07/29/19: Run in w/ 4 7/8" bit, sub & 117 jts & tag cement @ 3675'. RU mud pump & swivel & drill out 3 1/2 jts (110') of hard cement. Ran #122 jt w/ no tag, circulate clean & pressure test to 300#, held for 3 mins. Lay back swivel & run tubing down to RBP, circulate sand off RBP. Lay down swivel & pull tubing & bit out. Run back in w/ RBP catch tool, would not release. RU & circulate onto plug & release. Pull RBP & tubing out. RU bulldog bailer & run in halfway, SDON.

07/30/19: Finish running in w/ bulldog bailer, stroke & rotate on bottom @ 5054'. Pull bailer out, recovered 2 gals of iron sulfide, scale & cement. Lay down bailer, run back in w/ packer & tubing, set packer @ 4998', SN @ 4994'. RU tubing swab & found IFL @ 1400' FS, swab well down, recovered 64.38 bbls. Last pull, FL @ 4400', 16% oil. Iron sulfide in water on all swab runs. Shut well in & SDON.

07/31/19: ONFL @ 1800' FS, w/ 300' of oil on top (10%). Swab on well until hot oiler got to location to treat well for iron. RU Extreme Heat & pump 52 gals of ID-23 mixed w/ 450 gals of KCL & flush w/ 20 bbls of KCL down tubing. Last FL when swabbing, 4400' FS. Recovered 41.76 bbls, total 106.14 bbls. Release packer & pull tubing & packer out. Run tubing back in for prod. Set AC & pack off wellhead. Run in w/ rebuilt pump, pour 2.5 gals of CIID-14 & 2.5 gals of B-178 over pump. Seat pump & space well out, load w/ 5 bbls of KCL & pressure test tubing to 620#, held. Hang well on, clean location & RDMO. Back on pump @ 3:30 pm, 10.5 SPM x 74" SL.

Equipment in well:

4' Enercat tbg tool w/ 4' pinned sub below SN

EOT @ 5045'

160 jts 2 3/8" tubing (bottom jt Ceramcote)

SN @ 5033'

Rebuilt AC 4 jts above SN @ 4913'

2" x 1 1/2" x 16' RWT w/ strainer

(20) 7/8" rods

(180) 3/4" rods

8', 4' x 3/4" rod subs

1 1/4" x 16' polish rod w/ 8' liner