

2600 psi increased rate for super frac water injection to 9.5 BPM, pressure cont. to drop, communicated with Williamson perfs. 4871-88' stop pumping with 25 Bbl pumped, slowly flowing back from tubing and casing - released packer TIH to RBP reset RBP at 5336' set packer @ 5271' pressure test RBP to 2600 psi - Raise packer to 5212' pump 150 gall. 7 1/2% HCL followed by 26.1 Bbl water, set packer and break down Getty perfs (5242-45') with 2400 psi broke to 1800 psi increased rate to 8.11 BPM @ 2400 psi pump @ 50 Bbl water flow back 3.75 Bbl in 30 min. RU swab and make 6 swab runs - Total rec. 38.8 (44.2 BLTR) slight oil emulsion in last pull - SDFN.

Daily cost: \$4311.00
Cumulative cost: \$165,691.00

03-11-88 Tubing head pressure 40 psi (Getty) - Made 5 runs rec. 56.25 Bbl (26.75 BLTR) 15% oil on last pull, pump 30 Bbl produced water down tubing, released RBP & reset at 6088' spot 6.8 Bbl acid set packer at 6023' and broke down Castle perfs with 2200 # increased rate broke to 1850 increased rate to 8.26 BPM at 2420 psi pump a total of 50 Bbl produced water made 18 swab 5-8% oil cut after 6 runs 68 Bbl fluid rec. 66 Bbl load rec. 18 BLTR - SDFN.

Daily cost: \$2975.00
Cumulative cost: \$168,666

03-12-88 640 psi tubing head pressure (Castle Sd), 120 psi casing head pressure. Opened tubing to tank flowed 100% oil (Lt green high ' gravity, 1-2 Bbl). Made 6 swab runs, 4 from seating nipple with average 7% oil cut on runs 3-5. Last swab had 125' fillup in 30 minutes with 5.5 BLTR, cut increased to 33% oil. Pumped 32 Bbl produced water down tubing. Released packer and moved RBP to 5369'. Set packer at 5304' and pressure test plug to 2500 psi. Raise packer to 5240' spot 600 gallons 7 1/2% HCL set packer and treat at 8.4 BPM, 2100 psi - flow back. - Annulus began kicking due to displacement of lighter KCl water to above Williamson perfs. Pumped 30 Bbl produced water down annulus. Made 10 swab runs recovering 49 Bbl total - Last two swab runs recovered 5% oil with emulsion. SIFN

Daily cost: \$3080.00
Cumulative cost: \$171,746.00

03-13-88 FL:3600' swab to seating nipple in 2 runs, pulled two 30 minute swab runs rec. 40% and 11% oil getting 200' & 100' of fill up respectively, total load recovered 56.7 Bbl, 2.7 Bbl load to recover (approx.), heavy emulsion coming back with oil - pump 30 Bbl produced water down tubing - PU RBP and TOH - Welex ran cement bond log from PBTD to 2600' - Estimated cement top 2960' channel indicated 5020-4840' all other bond looked very good - TIH with RBP set at 5036', TOH with tubing - Load casing off with water - dumped 300# 20/40 sand down casing (21' fillup on plug) SIFN.

Daily cost: \$4218.00
Cumulative cost: \$175,964.00