

Calvani Com. #1

2. MIRU WSU. Kill well with produced water. Ensure well is dead, then nipple up BOP and function test.
3. Release Baker Lok-Set packer set @ 10,700' and POH w/tubing & packer (Scanalog tbg out of hole).
4. RU WLSU. RIH and dump bail ³⁵ ~~20~~' cement plug on top of Baker Model "D" packer set @ 11,187'. RIH w/5- $\frac{1}{4}$ " CIBP, setting CIBP @ \pm 10,650'. Dump bail ~~20~~' cement plug on top of CIBP. NOTE: Bottom of new perforations will be @ 10,397'. ³⁵
5. PU ^{2 3/8} ~~2 7/8~~" production tubing, RIH open ended (Hydro Test tbg. to 8,000 psi.) to \pm 10,450'. Pickle tubing w/1000 gals. 15% HCL acid. Spot 1000 gals. Acetic Acid from 10,380'-397', load casing w/10 ppg brine water, & POOH w/workstring.
6. RU SCHLUMBERGER WLSU. Install and test lubricator and grease injector (Class "B" grease). RIH and perforate Strawn porosity from 10,380'-397' w/4 SPF using 4" casing guns w/Hyper Jet III charges (Total 69 shots). Correlate perforations with Schlumberger COMPENSATED NEUTRON - FORMATION DENSITY LOG dtd. 03/16/73 & PERFORATING DEPTH CONTROL LOG dtd. 03/27/73. POH RD WLSU.

NOTE: Check guns after perforating to make sure all shots have been fired.

7. RIH w/2-^{3/8} ~~7/8~~" production tubing and redressed 5- $\frac{1}{4}$ " Baker Lok-Set packer. Set packer @ \pm 10,300' and attempt to break formation w/spot acid.
8. Swab tubing to packer and prepare to acidize Strawn formation.
9. Install tree saver & RU HALLIBURTON Stimulation Services w/acid & nitrogen services. Acidize the Strawn perforations w/5,000 gals MOD-202 Acid. Lay, stake, and test lines to 6,000 psi. Have 500 psi on tbg/csg annulus during job. A positive displacement ball injector loaded with 100 (1.3 SG) ball sealers is required. Estimated treating pressure 5000-6000 psi using 2-7/8" workstring while treating at a approximately 5 BPM. Do not exceed 8,000 psi treating pressure.

=> Pump acid in 5 stages of 1000 gals. each, dropping 25 ball sealers after each 1000 gals. of acid.

Pad: 1000 gal fresh water
10 gal/1000 gal WG-11 (gelling agent)
1 gal/1000 gal LOSURF-300 (surfactant)
500 scf/bbl N₂ (nitrogen)

Acid specification: 5000 Halliburton MOD-202 acid
2 gal/1000 gal HAI-62 (inhibitor)
3 gal/1000 gal LOSURF-300 (surfactant)
100 gal/1000 gal Fe-1A (iron control)
3 gal/1000 gal SGA-1 (friction reducer)
1 gal/1000 gal SSO-21 (NE agent)
500 scf/bbl N₂ (nitrogen)