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## HACKBERRY UNIT #1

## Recompletion of Bone Springs

7-30-81: Pulling unit rigged up. 7-31-81: Killed the well, and pulled out of hole with tubing, and production packer. Rigged up wireline, and went in hole with E-Z drill bridge plug, and set at 11,000'. Pulled out of hole with wireline, picked up dump bailer, ran back in hole, and dumped 35' of cement on top of bridge plug. Filled in hole with 125 barrels fresh water, pressure casing held 500# pressure for 15 min., no casing leaks. Ran in hole with 4" perforating gun and shot 4 squeese holes @ 9,550'. Went in hole with cement retainer on tubing and set at 9,500'. Opened by-pass tool on retainer and established rate of 4 bbls./min. at 1050 psi. Mixed 350 sacks of Class H cement containing .75% CFR 2 & 5 lbs. per sack KCL. Top of cement @ 7,180', had good bond. Stinged out of retainer, and reversed out. W. O. C. 12 hours, and ran cement bond log. 8-3-81: Cement bond was good, so we spot 150 gallons of acid across perfs. Went in hole with  $4\frac{1}{2}$ " casing gun and shot 2 shots/foot as follows: 9401' - 9385' - 9383' - 9379' - 9377' - 9375' -9370' - 9368' - 9363' - 9362' - 9361' - 9357' - 9353' - 9278' - 9276' - 9274' - 9272'. Ran in hole with 144 stands of tubing, and RTTS packer, and set at 9,265'. 8-4-81: Acidized well with Halliburton 15% N.E.F.E. acid. Dropped 2 7/8" ball sealers every 31 bbls. acid, pumped acid @ rate 3500 psi, 3.3 bbls. bbls. per min. Flushed 53 bbls 2% KCL water. Max. rate 47 BPM at 5,000 psi. Average rate: 4.3 BPM at 3500 psi. Swabbed 60 bbls. load water with slight trace of live oil to surface. 8-5-81 and 8-6-81: After swabbing for two days, calulated 24 hour production was 12 bbls. oil and 48 bbls. water. 8-7-81: Ran FIL log. 8-8-81: Pulled tubing out of hole and released RTTS packer. Currently waiting on rods, pumping unit, and electricity to put well on production.