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- 2/8/91: Pick up 5-1/2" RBP packer on 2-7/8" workstring and GIH. Set RBP at 3150' and test to 500#. Packer at 3000'. Acidized the San Andres perfs 3048'-3074' down tubing with 2500 gallons of Pentol 200 (20% NEFe HCl) diverted with 250# rock salt in 250 gallons of gelled brine.
- 2/12/91: Acid Engr. pumped chemical treatment down tubing and flushed and overflushed with 150 bbls of 2% KCl water.
- 2/14/91: Release packer and retrieve RBP. Reset RBP at 2900'. Set packer and test to 500#. GIH with 7" packer on 2-7/8" workstring. Set packer at 2450'. Test all lines to 4000#. Treated the San Andres through perfs 2768'-2850' down 2-7/8" workstring with 5000 gallons of Pentol 200 (20% NEFe HCl) diverted with 52 ball sealers spaced evenly throughout treatment. Flushed with 2% KCl water to 2770'.
- 2/18/91: Unseat packer and POOH with 7" packer. Retrieved 5-1/2" RBP. Pick up 7" RBP and 7" packer on 2-7/8" tubing and WIH. Set RBP at 2450' and test to 500#. Pull packer to 2300' and set packer. Treated the Grayburg through perforations 2340'-2412' down tubing with 1500 gallons 7-1/2% NEFe HCl acid containing fines suspension agents and clay stabilizer. Diverted with 20 RCN ball sealers spaced evenly throughout the treatment. Flushed with 2% KCl water.
- 2/21/91: Unseated packer and POOH. Picked up packer on 3-1/2" workstring and WIH. Testing tubing while going in hole to 6000#. Set packer at 2300'.
- 2/22/91: Perforations 2340'-2412', 3-1/2" workstring. Test lines to 4500#. Pumped 6500 gal polyemulsion as pad. Pumped 1000 gallons with 2 ppg 20/40 mesh sand. Pumped 2000 gallons with 3 ppg 20/40 mesh sand. Pumped 2500 gallons with 4 ppg 20/40 mesh sand. Pumped 3000 gallons with 5 ppg 20/40 mesh sand. Pumped 3000 gallons with 6 ppg 20/40 mesh sand. Pumped 2000 gallons with 8 ppg of 20/40 mesh sand. Flushed to 2300' with 1/4 polyemulsion and 3/4 gelled water.
- 3/6/91: Unseat packer and kill well. Pick up packer on 3-1/2" workstring and WIH. Retrieved RBP and pull up hole and set at 2315'.
- 3/11/91: Acid Engr. to fracture treat the Grayburg through perfs 2260'-2274' (7 holes) down 3-1/2" workstring as follows: Pumped 4500 gallons of polyemulsion as pad (10.5 BPM @ 2900#). Pumped 500 gallons with 1 ppg 16/30 mesh sand. Pumped 1000 gallons with 2 ppg 16/30 mesh sand. Pumped 1500 gallons with 3 ppg 16/30 mesh sand. Pumped 2000 gallons with 4 ppg 16/30 mesh sand (10 BPM @ 3000#). When 4 ppg hit formation pressure went from 3200# to 3950#.
- 3/13/91: Released packer at 2200' and POOH with packer and 3-1/2" workstring. WIH w/retrieving tool for RBP @ 2310' on 2-3/8" tubing. Retrieve RBP and POOH with same.