

Supplement - Well Completion Report
Hanson Oil Co. - #1 Allied State

PERFORATIONS:

Stage #1 & #2

1 - 3/8" jet per foot @ 4568', 4569', 4599', 4603', 4605', 4607', 4851', 4852', 4853', 4856', 4857', 4858', and 4859'. (All squeezed)

Stage #3 & #4

1 - 0.50" jet per foot @ 4852', 4853', 4856' and 4857'.

Stage #5

1 - 0.50" jet per foot @ 4568', 4569', 4603', 4605' and 4607'.

TREATMENT:

Displaced hole with oil and spot 250 gals. 15% DS-30 acid across all perforations. Set HOWCO HM straddle packers @ 4556' and 4620'.

Stage #1: Frac perfs. 4851-4859' with 500 gals. DS-30 acid + 15,000 gals. lease oil + 14,000 lbs. 20-40 sand + 1000 lbs. 10-20 sand by limited entry via 3-1/2" tubing. Formation broke @ 3000#. Formation treated 16 BPM @ 5500#. ISDP @ 2875#. 30 min. SIP @ 1750#.

Stage #2: Attempted to break down perfs 4564-4607' with 500 gals. DS-30 acid. Top packer @ 4556' gave way at 7000 lbs. Pulled tubing and straddle packers and replaced with a RBP @ 4637' and RTTS packer @ 4500'.

Frac perfs. 4564-4607' limited entry via 3-1/2" tubing with 1250 gals mud acid + 15,000 gals. lease oil + 14,000 lbs. 20-40 sand + 1000 lbs. 10-20 sand + 375 lbs. Adomite Mark II. Formation broke @ 1800#. Formation treated 18 BPM @ 5300#. ISDP @ 2550#. 12 min. SIP @ 1900#.

Squeeze all perforations with 250 sacks.

Stage #3: Spotted 75 gals. DS-30 acid across all perfs. 4852-4858'. Set RTTS packer @ 4783' and acidized with total of 500 gals. Formation broke @ 3100#. Formation treated 2 BPM @ 2700#. ISDP 1600#. 5 min. SIP @ vacuum.

Stage #4: Frac. perfs. 4852-4858' limited entry via 3-1/2" tubing with 20,000 gals. lease oil + 18,000 lbs. 20-40 sand + 1000 lbs. 10-20 sand + 500 lbs. Adomite Mark II. Formation broke @ Stage #3 acid treatment. Formation treated 11 BPM @ 4300#. ISDP 3175#. 12 min. SIP @ 2825#.

Set BP @ 4638'.

State #5: Frac perfs. 4568-4607' limited entry via 3-1/2" tubing with 500 gals. 15% DS-30 acid + 20,000 gals. gelled brine + 27,000 lbs. 20-40 sand + 1000 lbs. 10-20 sand + 450 lbs. J-2 + 500 lbs. Aquaseal + 12 gals. LT-22 + 2000 lbs. KCl. Formation broke @ 2500#. Formation treated 14 BPM @ 3100#. ISDP @ 2650#. 5 min. SIP 2350#. 10 min. SIP @ 2200#.