

@ 13,286'. Installed tree & tested to 1,000# - ok.

4/13/82 Wellex perforated Morrow 13,003-007' w/10 (.29") holes. Opened to pit with a 3 to 4" flare. Recovered 6 bbls water w/8-10' flare. Swabbing & testing.

4/15/82 Halliburton treated Morrow w/750 gals. 35% HCL and 2250 gals Methanol, 40 B.S. and 150,500 SCF N<sub>2</sub>. Max press. 9400#, Min press 8000#, ISIP 5800#, 15 min 5500#, Rate 4.9 BPM. Total Load 108 bbls. Open to pit. Swabbing & testing.

4/17/82 CRC perforated Morrow 12,809-16' and 12,819-30' w/2 (.25") SPF = 36 holes. No increase in tubing pressure. Open to pit 4 hrs. No fluid, 8 to 10' flare. Flowing and testing.

4/20/82 By CRC perfed 5" liner 12,557-72'. 30 holes (.25" hole) and 12,659-65', 12 holes. Total of 42 holes. Open to pit 2 hours 0 fluid to 10' flare. Flowing & testing.

4/22/82 By CRC ran base temp survey from 12,000-13,190'. Perfs 12,557-13,226'. Bottom perfs covered.

4/23/82 By Howco treat 5" perfs 12,557-13,227' w/2400 gals 35% HCL acid & 6600 gals methyl alcohol + 3800 gals CO<sub>2</sub> (16 tons) 180 gals clay sta, 170 balls. By Cardinal ran IRI92 tag master. Max pressure 9140#, min 6400#, avg. rate 4 BPM. Ran temp & Gamma Ray Survey. Open to pit & recovered 160 bbls water, alcohol & acid. Flowing & testing.

Will run 4 point.