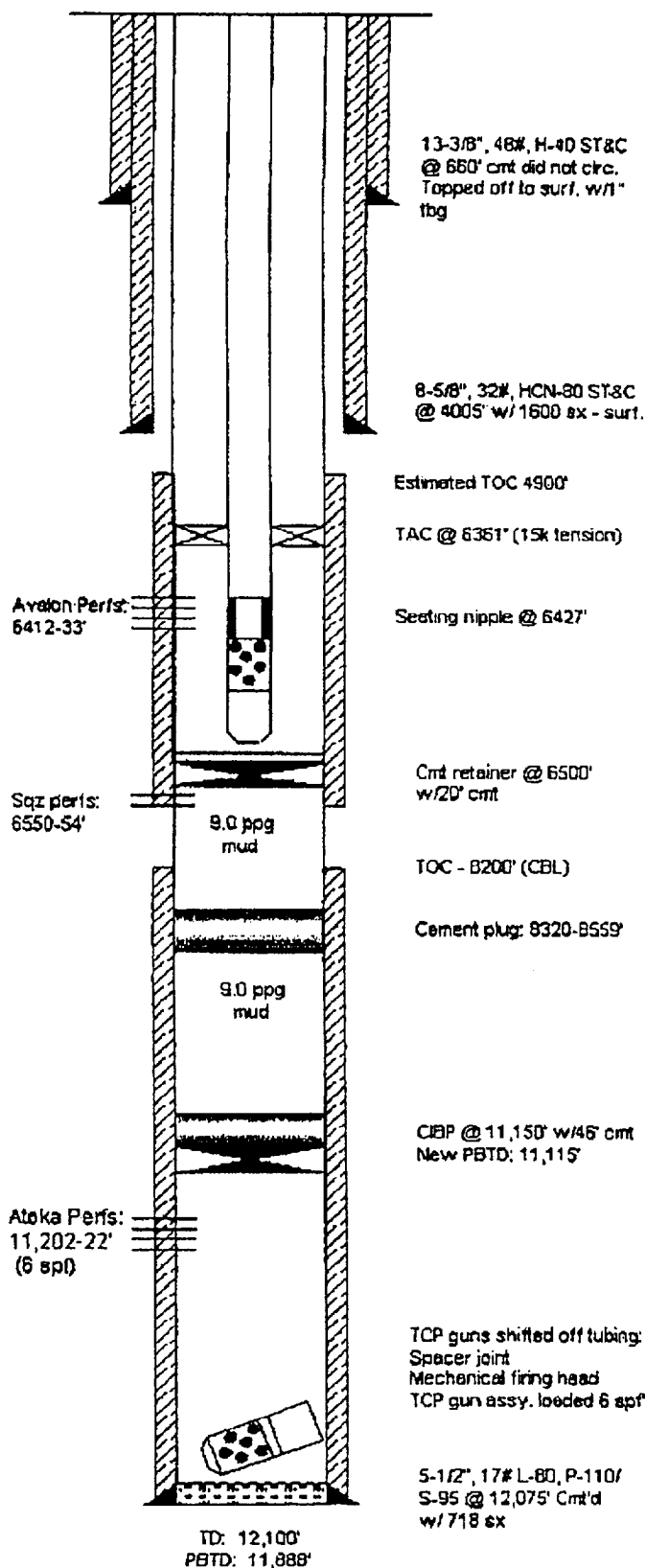


Shugart 21 Federal #1
1980' FSL & 1800' FEL
Sec. 21, T-18-S, R-31-E
Eddy Co., NM
Elevation: 3638' GL, 3655' KB

Current Completion

Spud Date: 5/24/00
Completion Date: 7/25/00



Completion

7/25/00 - Perforated Atoka from 11,202-22' (6 spf) using 4" TCP guns with 200' water cushion in tbg. GTS in 5 minutes. Unloaded water cushion in 6 minutes. Good gas blow, but no pressure. Flowed well overnight w/gas rate dropping to 3' lazy flare. Swabbed well w/IFL @ 9600'. 100' fluid entry per hr. SI overnight w/SITP = 400 psi. Acidized w/1500 gals of 7.5% NEFE HCl w/25% methanol energized w/N2. Flowed and swabbed load back. SI well. 48 hr SBHP = 2185 psi. Shifted TCP guns off. Frac'd Atoka using a Binary Gas system and 35,000 lbs 20/40 Interprop. Flowed back frac and well died overnight. Swabbed and flowed back load. All load rec'd. Well not capable of sustaining flow.

9/19/00 - Perf'd the Avalon from 6412-33'. Az'd w/1000 gals 7.5% NEFE acid. Rec'd load w/trace of oil. Frac'd Avalon w/13,500 gals 35 # X-link gel w/56,000# 16/30 sand. Screened out w/15,000# sand in the formation. Flowed and swabbed back load. Rec'd large volumes of sand. Good show of oil and gas. Well would not sustain flow. SI for evaluation.

Tbg Detail:

185 Jts 2-7/8", 6.5# L-80 EUE Brd tbg
5-1/2" TAC set in 15K lbs tension
2 Jts 2-7/8", 6.5# L-80 EUE Brd tbg
Seating nipple
Perf'd sub
BPMA