

YATES PETROLEUM CORPORATION
Ceniza AGZ Com #2
Section 12-T20S-R24E
Eddy County, New Mexico

#27: ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.:

DEPTH INTERVAL

TREATMENT

7692-7799'

Set cement retainer at 7645'. Established rate of 4 BPM at 100 psi. Mixed & pumped 150 sacks "H", 10% thixad and 1/4#/sack celloflake (yield 1.52, weight 14.6) and 250 sacks "H" Neat (yield 1.18, weight 15.6). Washed up - no pressure. Pumped 30 bbls over displacement at 3 BPM. Hesitated 3 times - no squeeze, no pressure. Over displaced 10 bbls. Mixed and pumped 100 sacks "H" and 10% thixad (yield 1.52, weight 14.6) and 200 sacks "H" Neat (yield .99, weight 17.0). Caught pressure with 16 bbls displacement. With 18 bbls displacement, perforations 7692-7799' squeezed to 2500 psi. Reversed 164 sacks cement to pit

9222-9228'

Acidized with 1000 gallons 7-1/2% MS HCL acid with 1000 scf/bbl N2.

Frac'd with 8400 gallons 40# gel and 70Q foam, 23620# 20-40 ac-frac sand and 83 tons CO2 - pressured out