

YATES PETROLEUM CORPORATION  
Spring ART Federal #1  
Section 23-T20S-R26E  
Eddy County, New Mexico

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

<u>DEPTH INTERVAL</u>	<u>TREATMENT</u>
10189-10224'	Acidized with 2 bbls 7-1/2% iron control HCL acid, 10000 scf N2 pad & 1500 gallons 7-1/2% iron control HCL acid with 1000 scf/bbl N2 and ball sealers  Frac'd with 27000 gallons 70Q foam and 28000# 20-40 Interprop
9978-10006'	Acidized with 1500 gallons 7-1/2% iron control HCL acid w/1000 scf/bbl N2 and ball sealers
8166-8234'	Acidized with 3000 gallons 20% iron control HCL acid and ball sealers
7624-7654'	Acidized with 2000 gallons 20% iron control HCL acid and ball sealers
CIBP set at 9900' and capped with 35' of cement	
CIBP set at 8275' with 1 bailer of cement - drilled out and pushed to 9865'	
8166-8234'	Cement retainer set at 8135'. Mixed and pumped 150 sacks "H", .4% Halad 322 (yield 1.18, weight 15.6) and 200 sacks "H" Neat (yield 1.18, weight 16). Hesitation squeezed to 2500 psi with 315 sacks in formation (pumping down backside during squeeze, loaded backside with 40 bbls - pumped in at 2 BPM at 500 psi and climbed to 1000 psi)
7624-7654'	Cement retainer set at 7500'. Established injection rate of 3 BPM at 1400 psi. Mixed and pumped 100 sacks "H", .4% Halad 322 and 150 sacks "H" Neat (yield 1.18, weight 15.6). Squeezed to 2500 psi with 225 sacks in formation.
Drilled out retainers and cement.	
9280-9287'	Frac'd with 10000 gallons 70Q Foam 40# CMHPG, 219000# 20-40 AC-frac sand, 18000# 20-40 Interprop and 75 tons CO2 - pressured out. Total sand in formation - 215000#

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