

YATES PETROLEUM CORPORATION
Preston Federal #25
Section 34--T20 $\frac{1}{2}$ S-R23E
Eddy County, New Mexico

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

<u>DEPTH INTERVAL</u>	<u>TREATMENT</u>
8128-8178'	Retainer set at 6840'.. Pumped 150 sacks Class H, 4/10% FL & 125 sack Class H Neat - squeezed to 3100#
Whipstock plug set with 230 sacks Class H, .9% FL and 5#/sack fumed silica. Broke circulation - pumped 500 gallons mud sweep, fresh water spacer and 230 sacks Class H cement (18# cement). Used fresh water spacer and 10# brine for displacement. WOC 6 hours. TIH and tagged plug at 5900'.	
9396-9402'	Acidized with 250 gallons 7-1/2% Morrow acid
9340-9345'	Acidized with 250 gallons 7-1/2% Morrow acid
9340-9402'	Frac'd with 23000 gallons 70Q binary foam, 27 tons CO ₂ , 175000 scf N ₂ and 36000# 20-40 econoprop - screened out with 5000# proppant in formation
9340-9402'	Frac'd with 42500 gallons 70Q binary frac and 30000# 20-40 econoprop - screened out with 22000# proppant in formation
9135-9193'	Frac'd with 44200 gallons 70Q binary foam frac, 50000# 20-40 Optiprop, 71 tons CO ₂ & 374,762 scf N ₂ .
7608-7650'	Acidized with 600 gallons 20% iron control HCL acid and ball sealers
7558-7575'	Acidized with 600 gallons 20% iron control HCL acid and ball sealers
7518-7538'	Acidized with 600 gallons 20% iron control HCL acid and ball sealers
7518-7650'	Acidized with 15000 gallons gelled 20% iron control HCL acid and 68 tons CO ₂