

COTTON PETROLEUM CORPORATION
Apache No. 105
Lease No. Jicarilla Apache Contract No. 129
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PBSD

First Stage: 7442'

Perforations: 7363', 64', 65', 66', 67',
68', 69', & 7375', 76', 77'.
1 shot per foot

Sandwater Fracture

Pad	3,000	gallons	Apollo 20
Treatment	17,000	gallons	Apollo 20
Sand	25,000	lbs.	
Flush	4,950	gallons	
Breakdown Press.	None	psig.	Pump in 3,450
Ave. Treating Press.	3,000	psig.	
Max. Treating Press.	3,450	psig.	
Ave. Injection Rate	32.0	BPM	
Hydraulic Horsepower	2,375	HHP	
Instantaneous SIP	1,900	psig	
5 Minute SIP	1,525	psig.	
10 Minute SIP	1,425	psig.	
15 Minute SIP	1,375	psig.	

Second Stage:

Temporary Bridge Plug

Perforations: 7340'
7269', 70', 71', 73', 77', 79', 81'
84', 85', 87', 89', 1 shot per
foot

Sandwater Fracture:

Pad	3,000	gallons	Apollo 20
Treatment	19,068	gallons	Apollo 20
Sand	18,060	lbs.	
Flush	4,900	gallons	
Breakdown Press.	None	psig.	pump in 3,600 psig
Ave. Treating Press.	3,800	psig.	
Max Treating Press.	4,000	psig.	
Ave. Injection Rate	8.0	BPM	
Hydraulic Horsepower	1,025	HHP	
Instantaneous SIP	1,400	psig.	
5 Minute SIP	1,350	psig.	
10 Minute SIP	1,325	psig.	
15 Minute SIP	1,300	psig.	