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NMOCD Form C-103 dated 3-6-01
Doyle Hartman
Wulff State No. 2
E-17-20S-37E
API No. 30-025-06138

Ran 2" x 1-1/4" x 12' RHAC insert pump and 3/4" rod string consisting of (142) 3/4" x 25' Axelson S-67 API Class-KD rods. Started pumping well at 4:15 P.M., CST, 2-12-01, at 8 spm x 64" x 1-1/4". Moved off well service unit.

Rebuilt existing well pad and road utilizing 1668 cu. yds of caliche.

On 2-17-01, recorded results of 22.5-hr test, to atmosphere, through orifice tester:

Gas:	20 MCFPD
Wtr:	3.6 BWPD
CP:	4.8 psig
Orifice:	0.250"

Shut in well at 9:30 A.M., CST, 2-17-01, for pressure buildup. 47.4-hr SICP = 76.5 psig.

Rigged up well service unit. Pulled rods and tubing. Poured 34 sx of 10/20 frac sand down casing. Measured PBTD at 3470'. Ran 2-3/8" O.D. tubing. Landed bottom of tubing at 3223' (99 jts @ 32.36' + 1.1' SN + 18' MA + 2' BJ - 2' AGL = 3222.74'). Made up flowing wellhead assembly.

Rigged up Halliburton. Performed CO₂ foam frac, down casing-tubing annulus, from 3224' to 3468' (340 holes), at 32.37 BPM, utilizing 157,249 gal of gelled water and CO₂ and a total of 350,000 lbs of 20/40, 10/20, and 8/16 frac sand.

WHCP = 2223 psig.
WHTP = 2043 psig.
ISIP = 2113 psig.
15 min SIP = 1982 psig.

Flowed well back overnight, into blowdown tank.

Hooked up air unit. Cleaned out frac proppant to 3627'. Landed bottom of tubing at 3577'. Ran 2" x 1-1/4" x 12' RHAC insert pump and 3/4" API Class-KD rod string. Started pumping well at 5:00 P.M., CST, 2-21-01, at 8.5 spm x 64" x 1-1/4".

From 2-21-01 to 3-1-01, flared gas stream, to atmosphere, to lower CO₂ content, to 15%. On 3-1-01, shut in well. Performed pressure buildup. 24.7-hr SICP = 64.5 psig. Opened well to SRGC sales line, at 4:35 P.M., CST, 3-2-01.