

**Dark Canyon #1
January 1997 Plug Back to the Strawn
Morning Report**

unusable, therefore it was salvaged.

**2/3-
2/17** **Flowing 200-250 MCF/D, 220-350# FTP**

**2/18
Tues** **Move in rig up Freemyer; 370 psi FTP; Loaded annulus with 3 bbl to 200 psi; Pumped 5 bbl fresh water w/ 1gpt corrosion inhibitor, Pumped 4500 gal 20% HCL w/ corrosion NELT acid; Diverted w/ 150 1.1 specific gravity ball sealers; Caught pressure at 25.5 bbl; Maximum injection pressure 2.3 BPM @ 4080 psi; Final pressure 4.3 BPM @ 350 psi; Shut in pressure vacuum; Flushed with 61 bbl fresh water; Total Load 169 bbl**

Discussion - Acid Design: Because the well was flowing, the acid job was modified to reduce cost. Less volume was used to reduce the chance that swabbing was needed. The treatment was also not spiked with CO2 or nitrogen. A low tension acid was used to aid in the flowback. Iron control was deemed to be unnecessary. However, corrosion inhibitor was used in the 5 bbl lead.

Discussion - Acid Job Assessment: The treatment went exceptionally well. The pressure broke steadily from 4000 psi to 350 when the acid was on spot. Although the treatment did not ball out, the ball action was amazingly good. The pressure did build to 2700 psi before again breaking back to 350 psi. The titration of the acid at the top and bottom was good. Since the well was on a vacuum, post treatment samples were not taken. Freemyer did an excellent job.

**2/19
Wed** **SITP 900 psi, bled well down, would not flow, ordered swab unit**

**2/20
Thurs** **Blew well down; Waited on swab unit to get to location; Well kicked off and started flowing; Blew 150 bbl to water tank.**

**2/21
Fri** **Estimated rate 314 MCF/D, 515 PSI FTP, Fluid unknown, 260 psi line pressure**

Dissuasion - Fluid volumes: Irresponsible hunters shot holes in the tank. An unknown amount of fluid was spilled, including a skim of oil. The water was fresh water and was not a problem. The rancher was contacted immediately and no further action is