

HSR-Margeson 10-31  
Well Completion Report  
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07/23        The service unit was moved in and rigged up. One hundred (100) barrels of 2% KCl water were pumped down the hole to kill the well. Sand was tagged at 7240' and cleaned out to PBTD at 7403' where the hole was circulated clean. Tubing was landed at 5694' K.B. with 174 joints in the hole. Brandex Wireline perforated the Tepee Buttes from 5941-5943', 5946-5952' and 5955-5959' with one spf for a total of 15 holes. The tubing was run back in the hole and re-landed at 7277' KB with 222 joints. The service unit was rigged down and moved off. The well flowed to the frac tank for three hours and was **turned down line Codell/Niobrara at 06:00 on 07/23.**

HSR-MARGESON 10-31  
NW/SW 31-3N-65W  
Weld County, CO

WELL COMPLETION REPORT  
PERFORATE AND FRACTURE CODELL/NIOBRARA

06/29/93 The service unit was moved in and rigged up. The bit, scraper and tubing were picked up and run into the hole to PBTD @ 7403'. The hole was circulated clean with 2% KCl water. Tubing was pulled out of the hole. Brandex Wireline ran a cement bond log across the Codell/Niobrara formations with good bond noted throughout. Halliburton pressure-tested the casing to 6000 psi and held it for 30 minutes. Brandex Wireline perforated the Codell formation from 7308-7318' with 2 spf for a total of 22 holes. The notched collar, seating nipple, 221 joints of 2-3/8" Quanex tubing and a three-foot blast joint were run into the hole and landed at 7247' K.B. The service unit was rigged down and moved off.

07/19 Halliburton fractured the Codell down both tubing and casing at 20 bpm at 5000 psi with 350,200# 20/40 mesh sand and 64,490 gallons of gelled fluid. ISDP 4030 psi; 5 min. 3850 psi; 10 min. 3810 psi; 15 min. 3780 psi. A total of 1536 bw were used during the job. The well was shut in for two hours to allow all gel to break. The well flowed to the frac tank for 19 hours and made 694 bw (45%) at 700/200 psi.

07/19 The well flowed to the frac tank for 24 hours and made 251 bw at 200/700 psi. A total of 945 bw (61%) have been recovered.

07/21 The service unit was moved in and rigged up. Halliburton pumped 220 barrels of 2% KCl water down the annulus to kill the well. Tubing was lowered and sand was tagged at 7294'. The BOP was installed and tubing was pulled out of the hole. Bran-Dex Wireline perforated the Niobrara "B" bench @ 7080-7090'; the Niobrara "C" bench @ 7167-7168' with 1 spf for a total of 24 holes. The Niobrara "A" bench faulted out. The notched collar, seating nipple, 213 joints of tubing and a three-foot blast joint were run into the hole and landed at 6985' KB. The wellhead was flanged up and the service unit was rigged down. Halliburton spotted sand over the Codell perforations at 7268' with 24 barrels of water.

07/22 Halliburton pumped 1250 gallons of 7-1/2% HCl acid plus 30 frac balls down the tubing to break down the "B" and "C" benches of the Niobrara. Good ball action was noted and the perforations did ball out. The balls were surged off and allowed to fall to bottom. The well was shut in awaiting fracture treatment.

Halliburton fractured the Niobrara down both tubing and casing at 20 bpm at 4850 psi with 228,000# 20/40 mesh sand and 64,400 gallons of gelled fluid. ISDP 3720 psi; 5 min. 3640 psi; 10 min. 3630 psi; 15 min. 3620 psi. A total of 1534 bw were used during the job. The well was shut in for two hours to allow all gel to break. The well flowed to the frac tank for 19.5 hours and made 681 bw (44%) at 950/550 psi.