

## April 1996 Workover Morning Report

500psi. RDMO.

**Discussion - Lease Maintenance:** The BLM was contacted regarding the critical nature of the lease maintenance. Since prematurely abandoning the well would result in the loss of reserves for everyone concerned, gas production was established against a low backpressure and a shut-in status was requested waiting on a low pressure line in the area that would make the well economical to produce.

The BLM was advised that we would continue to test the well to recover load that was lost in the well over the years. If continued testing did not prove to be economical, the well might be tested up the hole.

**Discussion - Flowback:** During the first several days on pumping, prior workover fluids were obviously being recovered. The color periodically changed and foamy surfactants were noted as well. The gas would not burn periodically, suggesting that CO<sub>2</sub> and nitrogen from previous jobs were being recovered. To avoid downtime, the engine was run continuously on purchased fuel until the well cleaned up. Unlike the recent swabbing, the casing pressure did not continue to build.

**Discussion - Line pressure/metering:** Although a test was taken against a low backpressure to qualify the well as shut-in gas well that did not have a low pressure gas market at the present time, an attempt was made to produce the well against a high back-pressure into the Highland line. Although this approach would make pumping more difficult, flaring could be avoided while the well was being tested. Initial rates were misleadingly high (above 200 MCF/D) until the meter was found to be bad and was replaced. The well is making about 20-30 MCF/D and approximately 30 BWPD.

**Discussion - Water Recovery Expectations:** MTI recommends that sufficient pumping time be given to recover a large percentage of the loads that can be potentially accounted for in the history of the well. There are five sources of water production from the well, including:

Well work operations: Volume from prior operations may be as much as 300-1000 bbl.

Liquid Hold-up: No water production was reported over the last 160 MMCF of gas recovery. This water was either not reported or

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