

Bertha Barber Well #11, Monument-Queen Gas Pool

DST #1, testing from 5535' to 5548', tool open at 10:45 p.m. Strong blow of gas to surface in 8 min. Recovered 2 bbls. oil and gas cut mud. Pulled test tool and recovered 400' of sulphur water. Flowing pressure 450#, Hydrostatic pressure 2527.

DST #2, testing from 5495' to 5514'. Tool open 12 hrs. Strong blow of air immediately. Gradual decrease to weak blow in 1 hr. Lasted thruout test. Gas to surface in 3 hrs. Recovered 4 bbls. sulphur water cut with drilling mud. S.I. 15 min. pressure 1750#, flowing pressure 200#, hydrostatic pressure 2350#. Recovered 219' sulphur water.

DST #3, testing from 5222' to 5240', Tool open at 4:20 a.m. Strong blow air for 30 min. gradually decreased to weak blow in 45 min. Continued very weak blow for 3 hrs. Ran swab 5 times. No recovery. Unseated packer to check if perforations were plugged. Re-seated packer and had fair blow of air for 3 min. recovered 10' free oil and 720' oil & gas cut drilling mud, and 270' very slightly gas cut drilling mud. Flowing pressure 150#, hydrostatic pressure 2150#, 1/2" bottom choke and 1" top choke.

DST #4, testing from 5222' to 5240' and 5132' to 5168'. Tool open at 9:25 p.m. 1/2" bottom choke and 1" top choke. Strong blow for 45 min. decreased to very weak blow for 5 hrs. Gas to surface in 49 min. Fluid level at 2000'. Recovered 4 bbls. of black sulphur water with swab. Recovered 3600' of fluid or 14 bbls. of black sulphur water. 15 min. S.I. pressure 1675#, hydrostatic pressure 2375#, initial flowing pressure 225#, final flowing pressure 1675#.

Core Description: Paddock 5222' to 5272', recovered 50'.

5251' to 5257 $\frac{1}{2}$ ' - Cr. to tan, xln., to gran., dense dolo., horizontal & vertical fractures thruout, barren.

5257 $\frac{1}{2}$ '-62 $\frac{1}{2}$ ' - Cr. to tan, xln. to gran. dolo., sli pp porosity, horizontal & vertical fractures thruout, good bleeding of oil, gas & water from pores & fractures. Water did not taste of salt or sulphur.

5262 $\frac{1}{2}$ '-65 $\frac{1}{2}$ ' - Cr. to tan, xln. to gran. dolo., sli pp porosity, sm. scattered vugs thruout, bleeding oil, gas & water. Horizontal & vertical fracturing w/xln. sulphur deposits in vugs & fractures, also mi ca deposits in vugs.

5265 $\frac{1}{2}$ '-66 $\frac{1}{2}$ ' - Cr. to tan, xln. to gran. dolo., scattered sli pp porosity, horizontal & vertical fracturing thruout w/good bleeding oil, gas & water from pores & fractures. Styolite, xln. sulphur deposits in vertical fracturing.

5266 $\frac{1}{2}$ '-68' - Cr. to tan, xln. to gran dolo., scattered sli pp porosity, horizontal & vertical fracturing, barren.

5268'-72' - Cr. to tan, xln. to gran., dense dolo., horizontal & vertical fracturing, xln. sulphur deposits in fracture, anhydrite depositions thruout, barren.

