

Multi-Chem Treatment Program Outshines Competition

Iron Sulfide Issues Resolved

BACKGROUND

This Austin Chalk well was re-entered in 1996 to add a horizontal lateral. The well was initially put on gas lift (G/L) but later put on rod pump due to drop in production. In May 1998 the well had a hole in the casing that was repaired and the well was put back on G/L. The well remained on G/L until it was shut-in (S/I) in May 1999 due to well not making a profit. The well was averaging 9 BO / 132 BW / 67 MCF per/day at the time it was S/I. In November 2007, a rig was moved on the well to put back on production due to oil/gas prices. The workover consisted of removing the G/L valves, fish two packers and then put well back on rod pump.

ISSUES

This well experienced problems with FeS, formation solids, and bacteria. There was also a possible scale issue due to workover fluids lost in wellbore during the fishing of the two packers and formation water cut in the area.

ANALYSIS

Multi-Chem was called during the workover because the supplier was having trouble treating an offset rod pump well that had had multiple failures. The well started making 110 BWPD with no oil or gas. The fluid being recovered had FeS, formation fines, and bacteria with an iron count of over 500 ppm. The fluid level on the casing was 6400' above the pump intake.

RESOLUTION

Multi-Chem started weekly batch treating well with 5 gals of MC C-6420 (OS corrosion inhibitor) that was switched to WS C-6471; 5 gallons of SS-5031 (Surfactant) and 5 gallons of S-2099 (Scale Remover). Also, a one-time 15 gal treatment of B-8900 (Biocide).

After two treatments, the water sample still showed blackish water color with Fe count over 500 ppm. The well was treated with 15 gals of B-8900 and flushed with 15 bbls of fresh water treated with SS-5031. Within seven days of the B-8900 treatment the Fe count was under 150 ppm, water color was almost clear and solids were very low. Due to the well only making 4 BO / 75 BW / 53 MCF per/day after week four and the high fluid level, the OS corrosion inhibitor was switched to a water soluble. In week six the Fe count was below 35 ppm, the water color was clear and had very little solids.

DELIVERED VALUE

Daily investment: \$24

Investment return: No failures for Production Company due to corrosion and/or stuck pump from solids and/or scale.

Estimated monthly income of well after expenses: \$12,000

Production Company has since given Multi-Chem two more wells to treat that were previously treated by another supplier.

This well was pulled in March 2009 to replace pump. All rods showed to be in good condition. The pump was found to have cracked pins on both the traveling and standing valve cages in downhole pump.

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