

ChemTreat addresses paraffin challenge, eliminates hot oil treatments and manual cutting, and increases production for Texas O&G producer.

Background

ChemTreat, Inc. was asked by a Texas oil and petroleum producer to conduct a field trial of its new paraffin converter chemistry on a well traditionally challenged by paraffin. The well had bi-weekly manual cuttings and hot oil treatments while paraffin treatment chemistry from another vendor was applied.

Solution

After reviewing the well schematics, fluid data, and operational history, ChemTreat proposed a trial program. The field trial was conducted with a new chemical delivery method: a squeeze-type treatment down the tubing with an over-flush, and batch treatment down the gas lift line prior to continuous injection using ChemTreat's new paraffin converter chemistry. No soaking or extra down time was needed (as in typical aromatic solvent, paraffin, inhibitor, and/or dispersant batch treatments), limiting down time to approximately three hours.



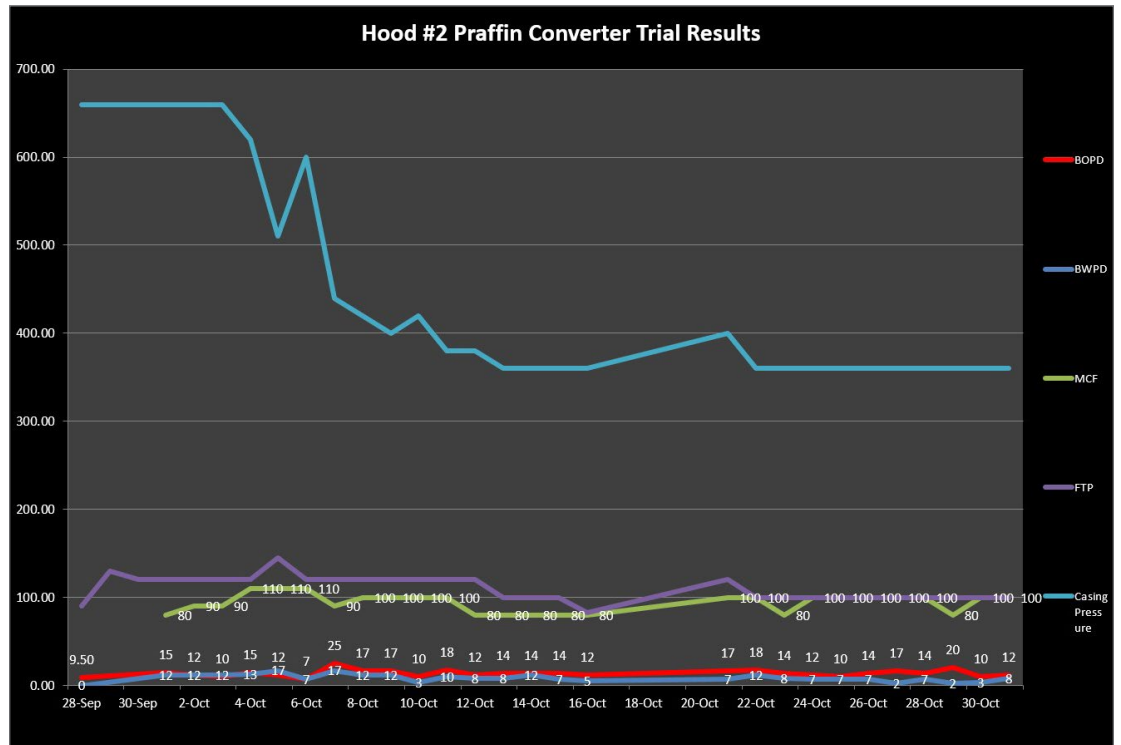
Results

The well initially saw large volumes of flowback material that included paraffin organic deposits. Over the trial period, there was a documented 38 percent increase in oil production. With an average increase of 5.34 BOPD at \$45/bbl, the producer experienced an increase of \$240/day or \$87,709/year for this well. After the treatment cost, the net increase is more than \$78,000 in produced fluid. This does not include discontinuing the bi-weekly paraffin cutting and hot oiling.

In addition, the well experienced a 2.4 percent increase in gas production and a 35 percent decrease in casing pressure. The well continues to operate without the bi-weekly cutting and hot oiling at increased production.



Results are examples only. They are not guaranteed. Actual results may vary.



**WELL DATA PRE-TREATMENT FROM SEPTEMBER 15-30
(PRODUCTION PER 24 HR. PERIOD)**

| | |
|--------------|-------------|
| Gas | 91.875 MCFD |
| Oil | 8.79 BPD |
| Water | 0 BPD |
| FTP | 90 PSI |
| Casing Press | 660 PSI |

WELL DATA POST TREATMENT FROM OCT. 1 – OCT. 31

| | |
|--------------|------------|
| Gas | 94.07 MCFD |
| Oil | 14.15 BPD |
| Water | 8.78 BPD |
| FTP | 109.93 PSI |
| Casing Press | 429.26 PSI |

COMPARISON DATA

| | | |
|--------------|--------------|--------|
| Gas | +2.195 MCFD | +2.4% |
| Oil | +5.36 BPD | +37.9% |
| Water | +8.78 BPD | +100% |
| FTP | +19.93 PSI | +18.2% |
| Casing Press | (230.74) PSI | (35)% |

