

~ Amended ~

Conoco 10 State 2-H - 30-015-39112

2<sup>nd</sup> Bone Spring Completion Details

12/31/2011: Pressure test Production CSG to 6200 psi for 30 min - Test good.

**Stage #1:**

Perfs = 11885'-11411' w/ 39 holes. 6 spf.

- Pre shut down breakdown was 1993 psi and post shut down breakdown was 1354 psi.
- 44442 gal of Water Frac G - R (8).
- 5000 gal of 15% HCL Acid.
- 140059 gal of Delta Frac 200 - R (17) carrying 1461.35 100\*lb of Premium White 20/40.
- The average rate was 66 bpm and average WH pressure was 3343 psi.
- Pre shut down ISIP was 1466 psi and post shut down ISIP was 1718 psi.
- The total liquid load to recover is 189501 gal.

CBP @ 11320'

**Stage #2:**

Perfs = 11248'-10760' w/ 39 holes. 6 spf.

- Breakdown was 2578 psi.
- 61449 gal of Water Frac G - R (8).
- 3000 gal of 15% HCL Acid.
- 174942 gal of Delta Frac 200 - R (17) carrying 1725.73 100\*lb of Premium White 20/40 and carrying 949.34 100\*lb of Super LC - 16/30.
- The average rate was 62.1 bpm and average WH pressure was 2967 psi.
- ISIP was 1823 psi.
- The total liquid load to recover is 239391 gal.

CBP @ 10694'

**Stage #3:**

Perfs = 10596'-10108' w/ 39 holes. 6 spf.

- Ball seated at 1974 psi.
- 53434 gal of Water Frac G - R (8).
- 3000 gal of 15%\_15% HCL Acid.
- 174553 gal of Delta Frac 200 - R (17) carrying 1701.3.00 100\*lb of Premium White 20/40 and 911.05 100\*lb of Super LC - 16/30.
- ISIP was 1766
- The total liquid load to recover is 230987 gal.

CBP @ 10050' – got stuck – had to fish w/ coiled tubing

Set CBP @ 9980'

**Stage #4:**

Perfs = 9944'-9456' w/ 39 holes. 6 spf.

- Ball Out pressure was 1907 psi.
- 65292 gal of Water Frac G - R (8).
- 2666 gal of 15% HCL Acid.
- 163265 gal of Delta Frac 200 - R (17) carrying 1688.60 100\*lb of SAND - PREMIUM - 20/40 and 619.31 100\*lb of SAND-CRC-16/30.
- ISIP was 1983 psi.
- The average WH rate was 80 bpm and average WH pressure was 3246 psi.

The total liquid load to recover is 231222 gal

Set CBP @ 9400'

**Stage #5:**

Perfs = 9383'-8303' w/ 39 holes. 6 spf.

- 47268 gal of Water Frac G - R (8).
- 2666 gal of 15% HCL Acid.
- 164742 gal of Delta Frac 200 - R (17) carrying 1658.14 100\*lb of SAND - PREMIUM - 20/40 and 643.72 100\*lb of SAND-CRC-16/30.
- ISIP was 2165 psi
- The average WH rate was 80 bpm and the average WH pressure was 3279 psi
- The total liquid load to recover is 214676 gal.

Set CBP @ 8750'

**Stage #6:**

Perfs = 8641'-8151' w/ 39 holes. 6 spf.

- Ball Out pressure was 2402 psi.
- 44250 gal of Water Frac G - R (8).
- 2666 gal of 15% HCL Acid.
- 178016 gal of Delta Frac 200 - R (17) carrying 1753.26 100\*lb of SAND - PREMIUM - 20/40 and 1143.97 100\*lb of SAND-CRC-16/30
- ISIP was 2102 psi.
- The average WH rate was 80 bpm and average WH pressure was 3184 psi.
- The total liquid load to recover is 224932 gal.