

- 3) Load 9-5/8" X 5-1/2" annulus w/ 6% kcl wtr.  
Load 5-1/2" X 2-7/8" annulus w/ 6% kcl wtr. Pressure test to 1000 psi.
- 4) RU BJ Services. Install Gaurdian 15k treesaver. Pressure test surface lines to 12000 psi. Pressure up on 5-1/2" X 2-7/8" ann to 2000 psi. (After tbg pressures up, increase to 3500 psi). Hold and monitor throughout job. Frac new and existing Middle Morrow perfs w/ 32000 gal 70Q Binary Foam + 45000 lbs 20/40 mesh Interprop 1 at 10 bpm as per following schedule:

STAGE	Foam Vol	LBS. PROP
Pad	13000 gal	0
1.0 PPG	3000 gal	3000 lbs
2.0 PPG	6000 gal	12000 lbs
3.0 PPG	10000 gal	30000 lbs
Flush	3250 gal	0
Totals	32000 + Flush	45000 lbs

Fluids to include additives as per attached procedure. Est WHTP @ 10 bpm is 9500 psi. **Max Allowable WHTP 11000 psi.**

If unable to achieve breakdown w/ foam. Have on location 140 bbl of 10 ppg brine water. If necessary, will use that fluid to breakdown formation and make a determination to continue or terminate job. Additives will be added to brine only if pumped.

- 5) Monitor ISIP, 5 min, 10 min, & 15 min shut-in pressures. Bleed off annular pressure. RD BJ Services.
- 6) Be prepared to start flowback as quickly as possible. If 15 min shut-in pressure is 5000 psi or greater, open well up on 10/64" choke thru treesaver. When pressure drops below 5000 psi, shut-in and RD treesaver. Continue flowback as follows:

FTP  
>4100 PSI  
1600-4100 PSI  
0-1500 PSI

**CHOKE SIZE**

10/64"  
14/64"  
20/64"

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- 7) Flowback and test well. Return to sales line as soon as possible.
- 8) If well screens out, RU coil tbg unit and jet out hole w/ N<sub>2</sub> foam.
- 9) Return well to production and report test.
- 10) Perform new state potential test when and if required.

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