

PROCEDURE

1. MIRU rig. Pump 5 bbls 2% KCL + bactericide + foamer dwn tbg. RD wellhead. RU BOPs POOH w/ tbg. and pkr.
2. PU and RIH w/5" Baker lockset pkr (ID=1.99"), 2-3/8" Baker downhole ball valve (ID=1.99"), on-off tool (ID=1.87"), and 2-3/8" blast joint (ID=1.99") on 2-7/8" workstring. Set at 2900'. Test annulus to 3000 psi. Release pkr. RIH and reset at 3220'.
3. RU Howco. MI 500 bbl frac tanks. RU for flowback. Install screw on tree w/built-in wing valve/choke, and 10K treesaver above tbg w/frac valve on top. Test lines to 5000 psi.
4. Frac Queen/Penrose as follows:

<u>STAGE</u>	<u>WHTP</u>	<u>SLURRY VOL</u> <u>(GALS)</u>	<u>CO2 VOL</u> <u>(BBLS)</u>	<u>CONCEN</u> <u>(PPG)</u>	<u>TOTAL</u> <u>(LBS)</u>
1	4368	23887	355	0	0
2	3898	8673	87	1-4	19756
3	4009	29724	221	4-8	142859
4	4009	6663	42	8	40000
5		0	21	0	

5. Flush w/CO2. Flow well back immediately to pit for 24 hours.
6. PU turn to left (2 turns) to close ball valve. J-off on-off tool. POOH.
7. RIH w/RBP, retrievable pkr, hardened "X" nipple on-off tool, and blast joint on W/S. Set RBP at 3210'. PU and set packer at 3190' and test RBP to 4000 psi. Release pkr and PU to 2900' and reset. Fill annulus w/2% KCL and test to 3000 psi.

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