

Proposed Injection Rates: A 51 day injection test was run by Roulette Oil & Gas Co, LLC in the Clara Field #20 from 8/3/2015 through 9/31/2015 through 2.375” tubing on a packer at 1,460 feet. The total brine injected was 3,320 Bbls or an average of 65 BWPD. The longest consecutive time of injection was 19 days from 8/3/2015 through 8/21/2015. The range of injection volumes during all 51 days of the testing was 20 bbls (9/4/2015) to 215 bbls (9/15/2015). The injection rates based on the injection test are summarized in the below.

However, under actual operations ROGC anticipates that the Average brine disposal rate will be approximately 20 BWPD with a Maximum Rate of 500 BWPD. The daily injection pressures are expected to range from 50 to 750 psi and average 400 psi with a maximum surface pressure of 974 psi (see Section J). The Class II-D UIC permit granted by the EPA for the Clara #20 well approved the range of injection volumes and rates.

The source of the injection fluid will be from Roulette Oil & Gas Co, LLC’s approximately 60 wells from the Pine Lot lease within Clara Field and 50 nearby wells, also operated by ROGC. The geologic formations which source the injection brine are the multiple, shallow productive Upper Devonian sandstones in the area.

	Minimum Rate (BWPD)	Maximum Rate (BWPD)	Average Rate (BWPD)
Injection Test	20	215	62
Anticipated Actual Operations	5	500	20