

Dated 7/8/2025

Maximum Injection Volume Calculations

Well Name: Nelson Jarrett #1
API: 05-075-05957
UIC Facility #: 159058
Injection Formation: J Sand

Current Permitted Injection Volume = 6,460,130 bbls
Volume Injected (as of 3/2025) = 5,462,103 bbls

r = permitted radius = 1320 feet, 1/4-mile, with potential to increase to 1/2-mile per
ECMC Rule 803.f.(4)
h = injection formation height = 59 gross feet, per doc #403733721
ρ = injection formation porosity = 21%

Injection Volume Limit (bbl) = 12,046,493 bbl

$$\text{Injection Volume} = (\text{PI} \times r^2 \times h \times \rho) / 5.63$$

Perf Top	Perf Btm	Net Feet
5430	5455	25
5396	5416	20
5445	5450	5
Total Feet		50
Gross Footage		59

Formations	Top (ft)
Niobrara	4515
Greenhorn	5039
D Sand	5290
J Sand	5396

Provided the corrected and accurate parameters for formation height, the operator requests an increased injection volume to 12,046,000 bbls, based on a 1/4-mile radius, permissible per ECMC Rule 803.f.(4).