

Lance Salty Dog 6 SWD Perforation Recommendations

Complete the Entrada Sandstone for water disposal over 2 perf intervals.

The Entrada Sandstone has nearly 110 ft of continuous, high porosity from 6770 to 6880 that should make for a good water disposal zone. Porosity over that part of the zone averages about 19% and is consistent, ranging only from about 17.5% to 23%.

The interval will be perforated in two sections within this porosity as shown below. That arrangement will facilitate setting bridge plugs between perforation sets at later times should isolation testing of individual perforation intervals ever be necessary. The perforations should receive an acid clean-up before any initial testing. A stimulation of the zone by frac'ing may also be necessary. The perforations begin 5 feet below the top of the porosity to add a little extra buffer below the overlying shale to avoid frac'ing out of zone.

From 6880 to the base of the sandstone at 6931 the Entrada's porosity is significantly diminished, with some parts of that interval falling below the 10% minimum porosity cutoff. No perforations are recommended for this interval, although some could be added to the best part of it at 6905-15 later if need be.

Stage 1, Entrada Sandstone – 340 total shots

<u>Perforation Interval 1</u>	<u>Total Ft</u>	<u>Density</u>	<u># Shots</u>	<u>Shot Dia.</u>	<u>Phasing</u>
6775 - 6825	50 ft	4 SPF	200 Shots	.42	120 Deg
<u>Perforation Interval 2</u>	<u>Total Ft</u>	<u>Density</u>	<u># Shots</u>	<u>Shot Dia.</u>	<u>Phasing</u>
6845 – 80	35 ft	4 SPF	140 Shots	.42	120 Deg

