Eldorado Facility Brine Product Information

This Brine Product information Fact Sheet was prepared with the assistance of our Brine Product Distributor, Meridian Chemical Products represented by Steven Porter and Rick Billings, in conjunction with Mr. David Bush who has extensive experience on the science and technology behind the use of Brines for Oil and Gas Well Completions and Well Work-Overs.

I. Eldorado's Brine Product was used exclusively for new oil and gas well construction and well work-overs on existing conventional wells in the States of Texas, Louisiana and Arkansas.

II. Eldorado's Brine Product was never employed in the hydro-fracking process due to the Calcium Chloride content in the Brine Product which is incompatible with proprietary blends and additives used in the hydro-fracking process.

III. Eldorado's Brine Product is employed as a casing seal preventing oil and/or gas from escaping (otherwise known as a "blow-out") from the formation during new well construction or existing well work-overs. The brine's specific gravity and density provide a superior cap and seal within the casing. Note that the brine product does not migrate into the geological formations storing the oil or gas. The Brine Product is restricted to the well's steel casing so there is no contact with rock or soil.

IV. Well Servicers consider the brine to be valuable and as such **RECOVER** the brine from the well casing. Brine is recovered from the well, recycled and re-used in other well completions and well work-overs.

Once the Brine is spent (meaning its uneconomical to re-vitalize it) the brine is either deep well injected or treated in an industrial WWTP.

V. Eldorado's product brine has been used as an emulsification and viscosity modifying agent in drilling muds. Meridian noted that all drilling muds are recovered and recycled as well and are laden with heavy metals like barium and zinc at percent concentrations.

VI. Meridian shared that there are several different versions of brine used in the oil and gas industry but the principal brines solutions are:
   a. Sodium Chloride
   b. Calcium Chloride
   c. Zinc Bromide (which contains organic halogens)

VII. Meridian noted that Zinc Bromide formulations are made from residual salts from the metal galvanizing process and this brominated formulation tends to have very high concentrations (percent range) of the heavy metals zinc, cadmium, chromium and lead from the steel finishing process that are imparted in this commercial brine.

VIII. Meridian noted that the Eldorado Brine is superior to other commercial brines because of its chemical stability with little variance in specific gravity and density.