Fasken Oil and Ranch, La Mesa #1H, Eagle Ford Core, Webb County, Texas

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The La Mesa #1H well cored a total of 383.4 ft. including: Austin Chalk (29.6'), Eagle Ford (344.3') and Buda (9.5'). This core is a core contribution in the Eagle Ford Shale Consortium conducted by Core Laboratories.

The change from predominantly organic-rich marl in the lower half of the unit to foram wackestone in the upper half of the Eagle Ford in the La Mesa #1 core is interpreted to represent a transition from outer shelf to distal inner shelf depositional environments in this area. Planktonic forams constitute the most abundant fossil group and their accumulation on bedding planes locally highlights lamination.

Clay is a mixture of illite/smectite (avg. 10.6 vol.%), illite & mica (avg. 4.6 vol.%), and lesser chlorite (avg. 1.3 vol.%). TOC ranges from 0.61 wt.% to 7.96 wt.%, and averages 4.21 wt.%. Vitrinite reflectance ranges between 2.08 and 2.18% which puts tested samples in the dry gas window. Total porosity in the Eagle Ford averages 8.89% (3.45-13.49%). Average gas and hydrocarbon-filled porosities in the Eagle Ford are 6.25% (2.68-9.69%) and 6.59% (2.83-10.60%), respectively. Average gas, oil, and water saturations in the Eagle Ford are 70.40%, 3.68%, and 25.92%, respectively. Bulk volume water is calculated at 1.2%.

The well was completed with 15 frac stages along a 4,720 ft. lateral in the Lower Eagle Ford. The well tested 4,222 MCFD (max. 30-day ave.) and has produced 2,978 MMCFG in 24 months.