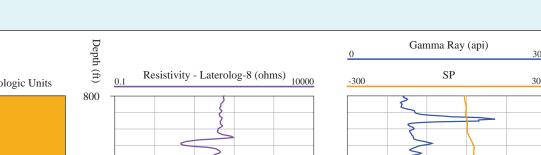
Utah State 13X-2 (core on display)

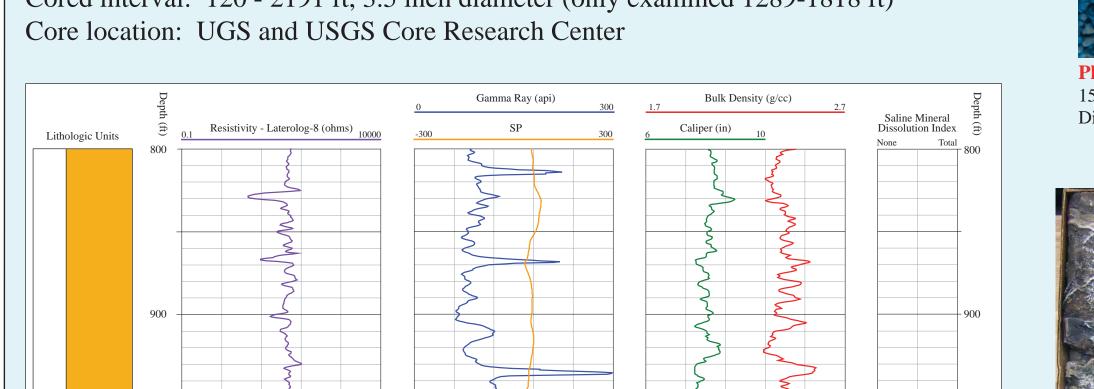
Utah State 13X-2 exhibits extensive saline mineral dissolution (see dissolution log) in two distinct zones, the upper aquifer is 47 feet thick (1525-1572 ft) and the lower aquifer is 107 feet thick (the lower zone could be separated into two zones, 1690-1732 ft and 1758-1797 ft). This well is very near Anadarko's saline water disposal wells.

Operator: Tosco Corp.

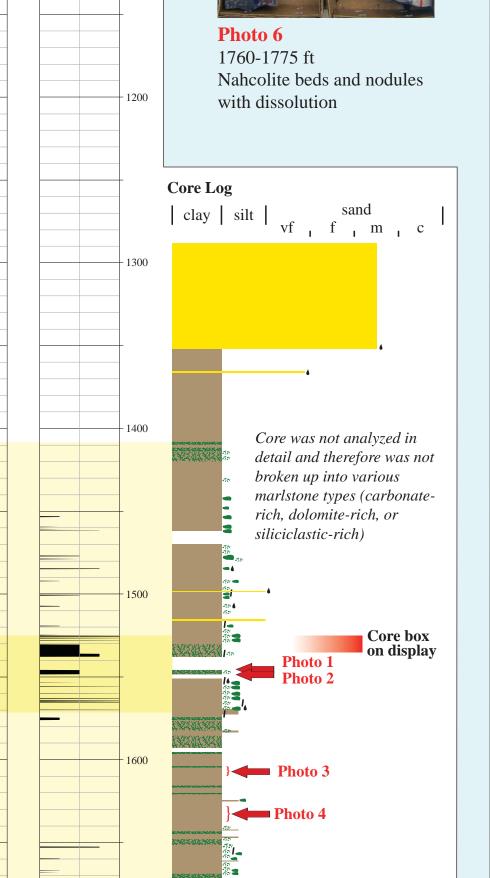
Location: T10S, R21E, Sec. 2, UTM E 625912, UTM N 4425960 Ground elevation: 5064 ft

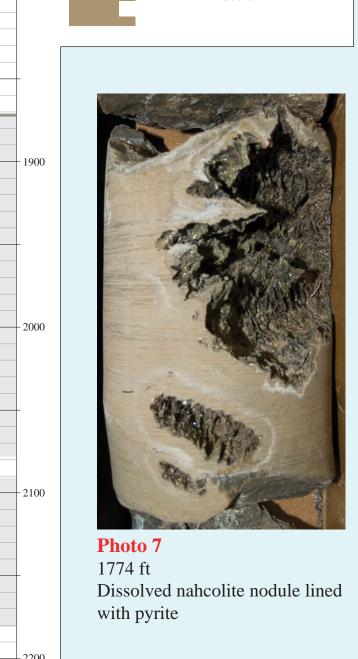
Cored interval: 120 - 2191 ft, 3.5 inch diameter (only examined 1289-1818 ft)





























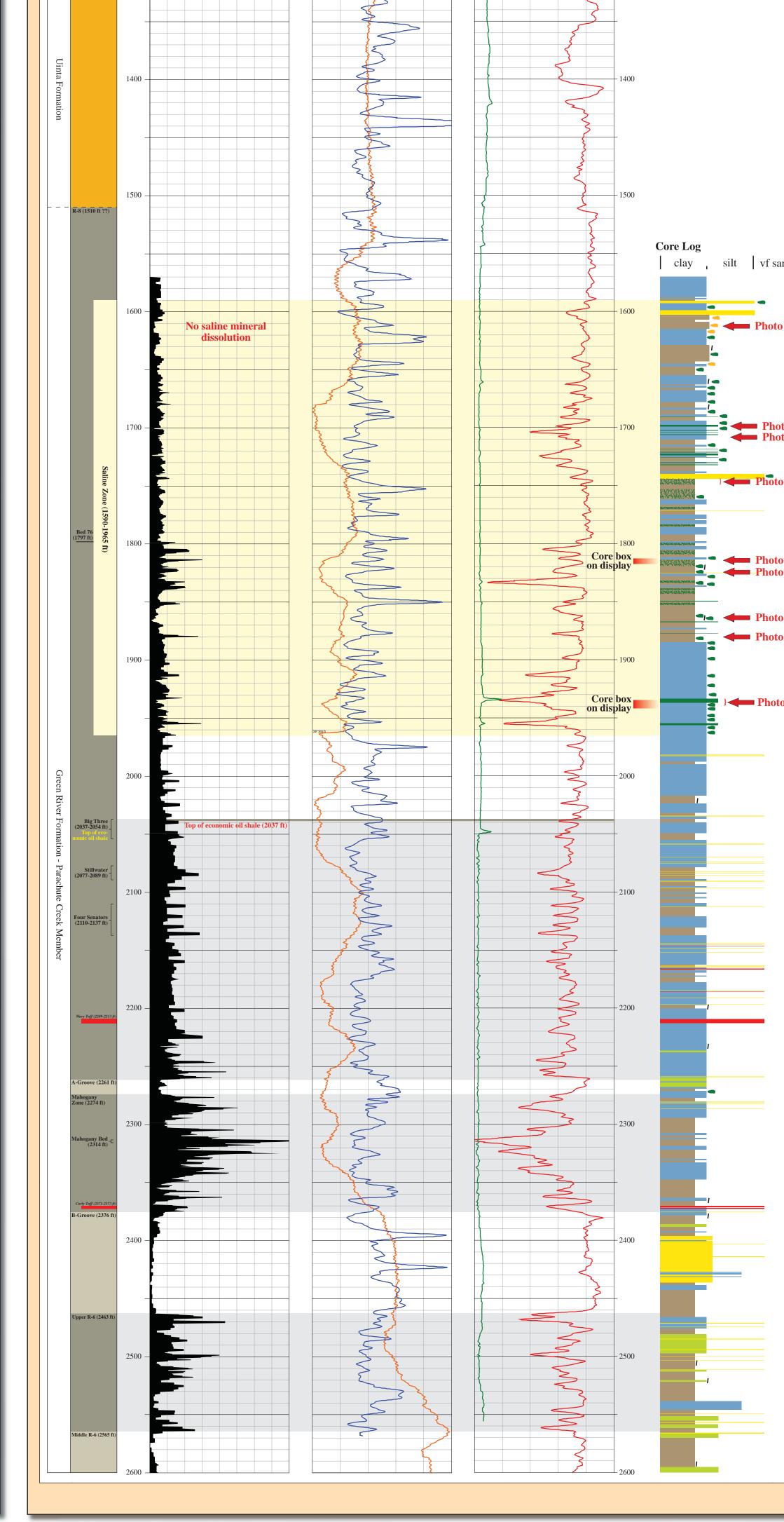


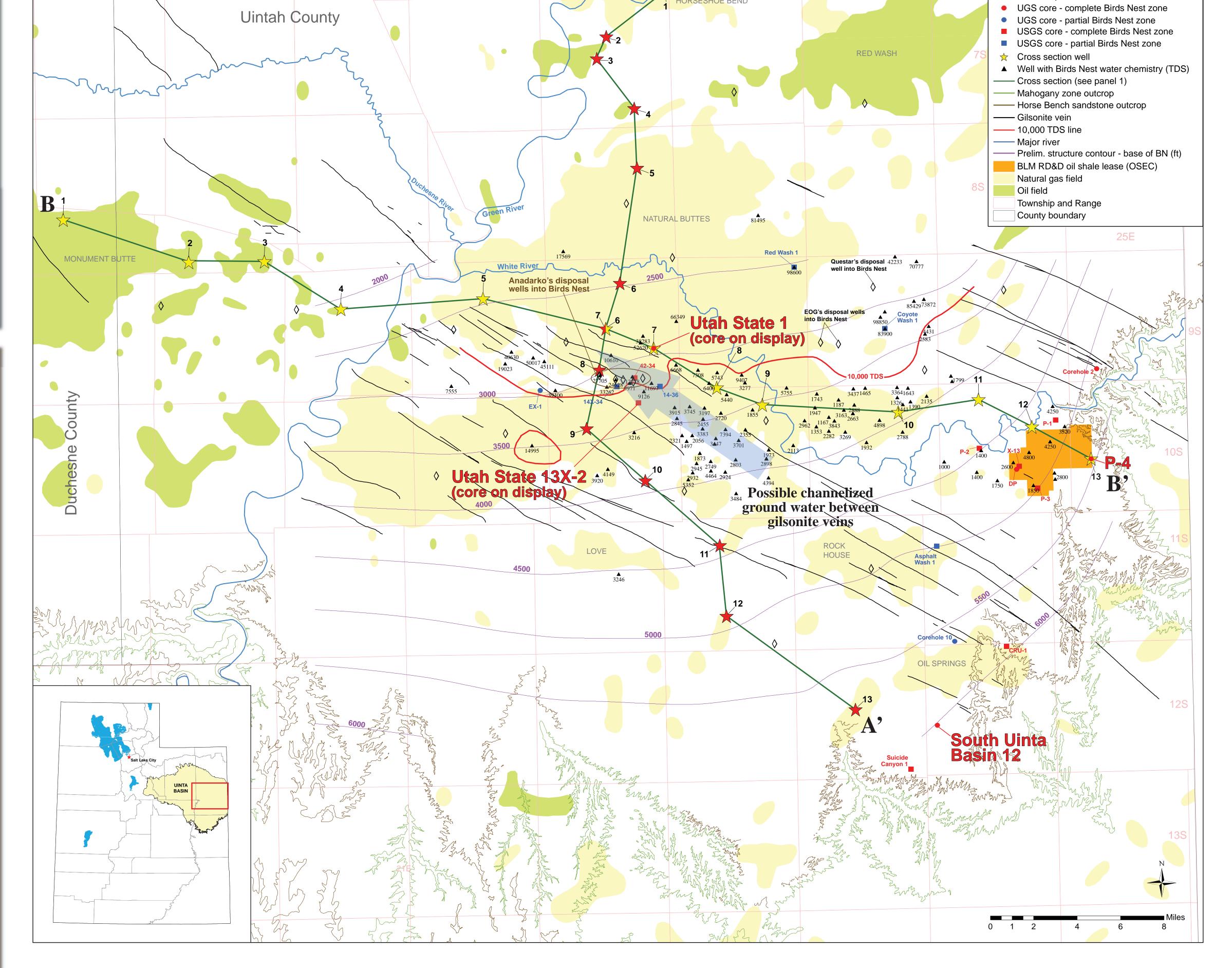


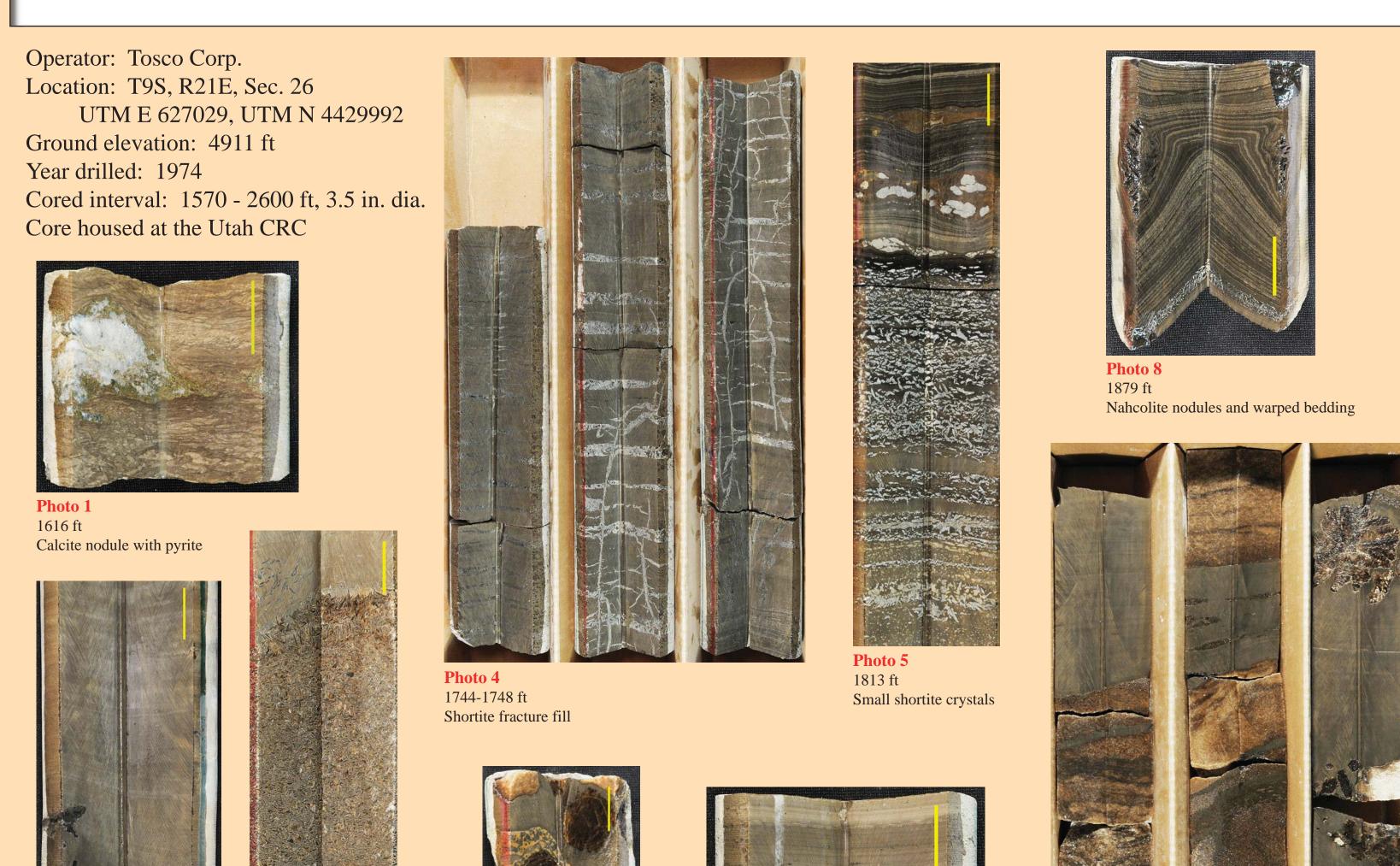


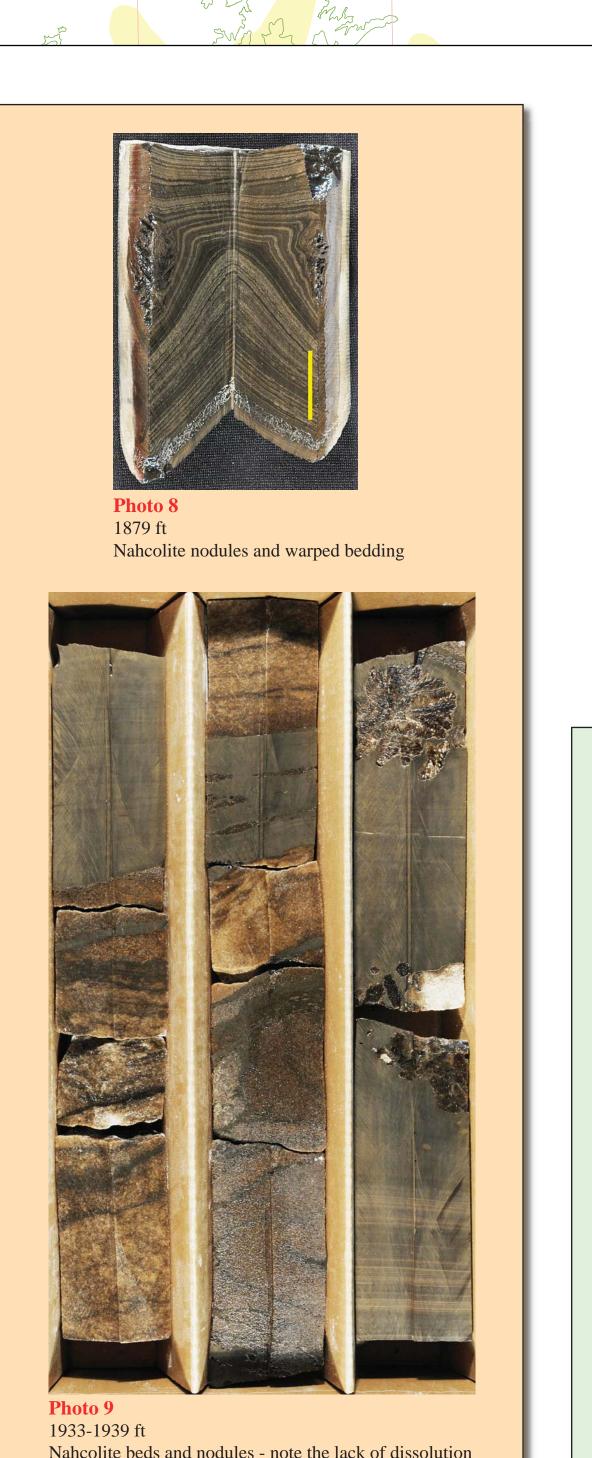
Utah State 1 (core on display) Utah State 1 exhibits no saline mineral dissolution throughout the entire saline zone.

This well is located about 1 mile north of Anadarko's saline water disposal wells, with a prominent gilsonite vein located in between. This situation indicates that gilsonite veins may be acting as flow barriers within the Birds Nest aquifer.









measurements, making core the only way to characterize the Birds Nest zone in this area (the distinctive spikes to low density representing large nahcolite nodules and beds disappear in the south starting at approximately Township 10 South - see cross section on panel 1). Operator: U.S. ERDA-LERC Location: T12S, R24E, Sec. 19, UTM E 648046, UTM N 4402078 Ground elevation: 6261 ft Year drilled: 1977 Cored interval: 91 - 621 ft, 1.8 inch diameter Core location: Utah Core Research Center Core was not analyzed in detail and therefore was not broken up into various marlstone types (carbonate-rich, dolomite-rich,

South Uinta Basin 12

South Uinta Basin 12 displays how the saline minerals within

the Birds Nest aquifer get much smaller to the south, closer to

the basin margin. There is still a 38-foot zone (206.2-240.6 ft)

where the <1-inch nahcolite crystals show significant dissolu-

tion. The southern outcrop of the Birds Nest aquifer could be

one of the recharge areas since the formation dips to the north-

west (see structure contours on map at left). Also, the smaller

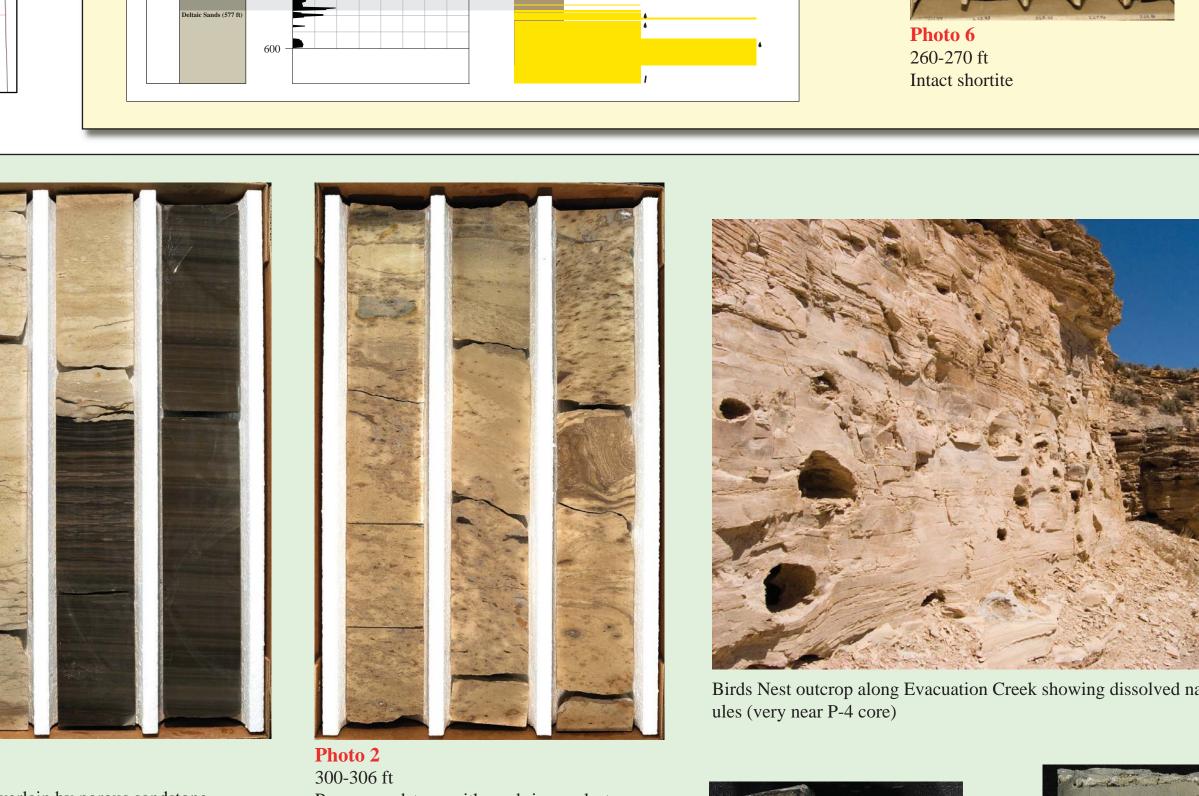
saline mineral crystals are not recognized by geophysical log

♦ Water disposal well

Siltstone / very fine sandstone

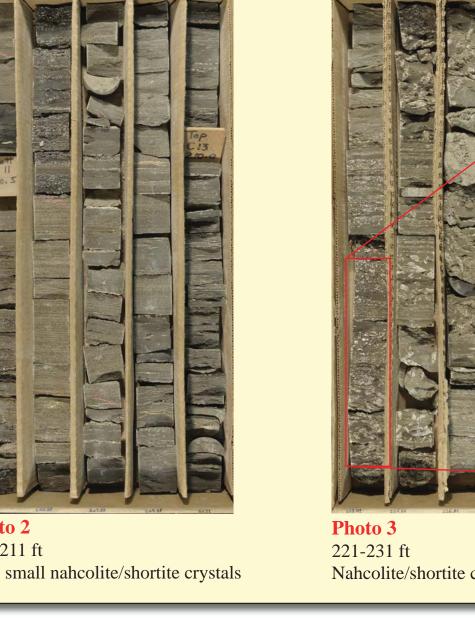
Dolomitic mud/siltstone

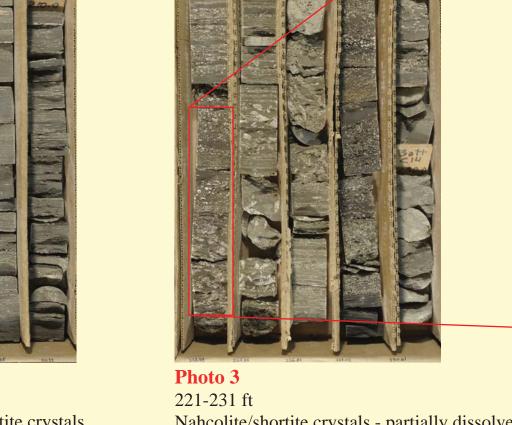
Nahcolite nodule [NaHCO₃]

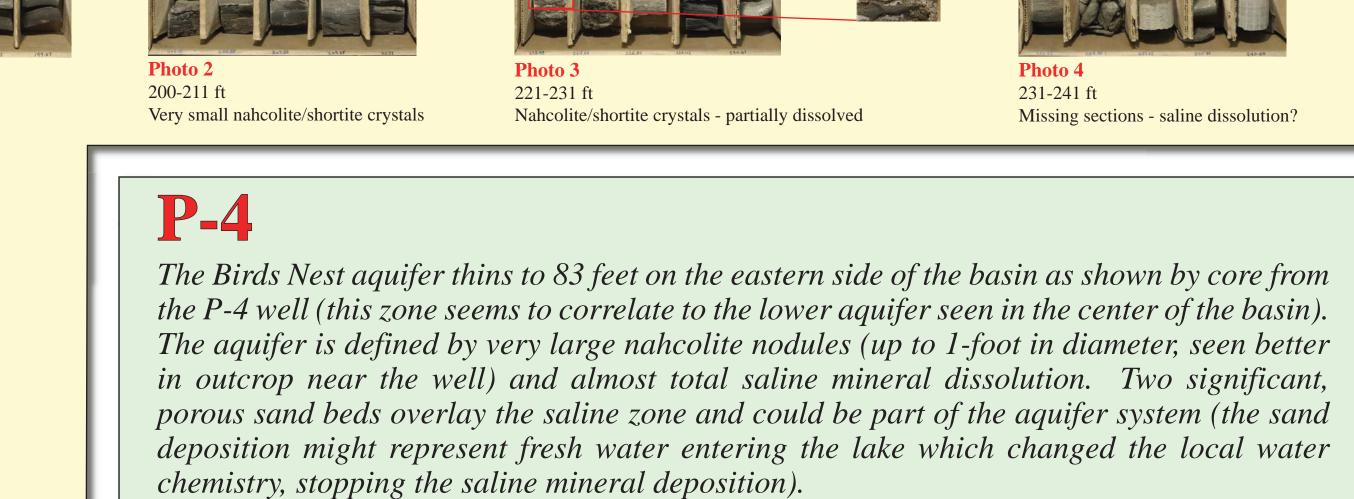




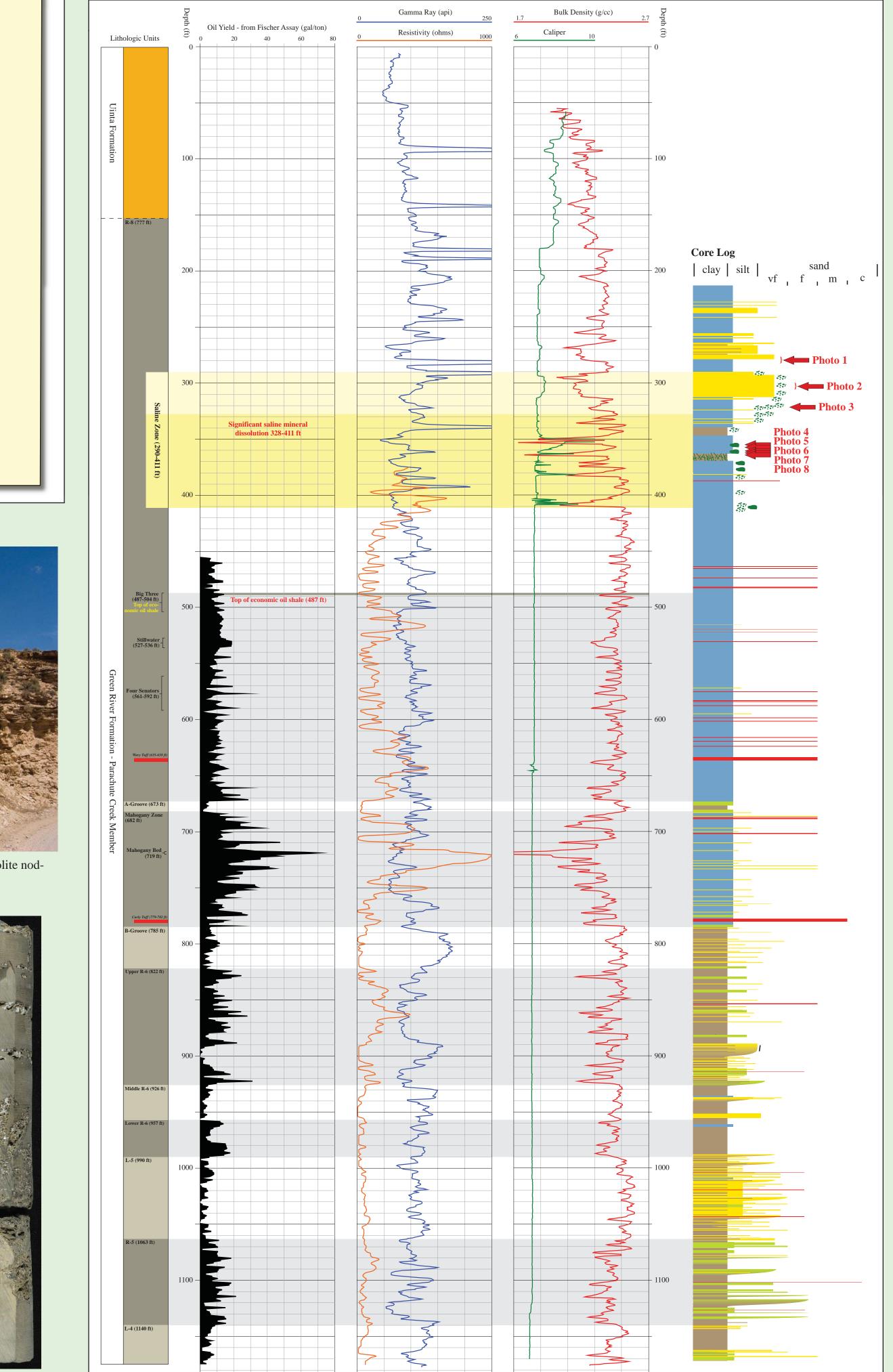








Operator: White River Shale Project Location: T10S, R25E, Sec. 19, UTM E 659426, UTM N 4421812 Ground elevation: 5719 ft Year drilled: 1974 Core location: Utah Core Research Center



AAPG-RMS 2010 - Durango, CO - Panel 2