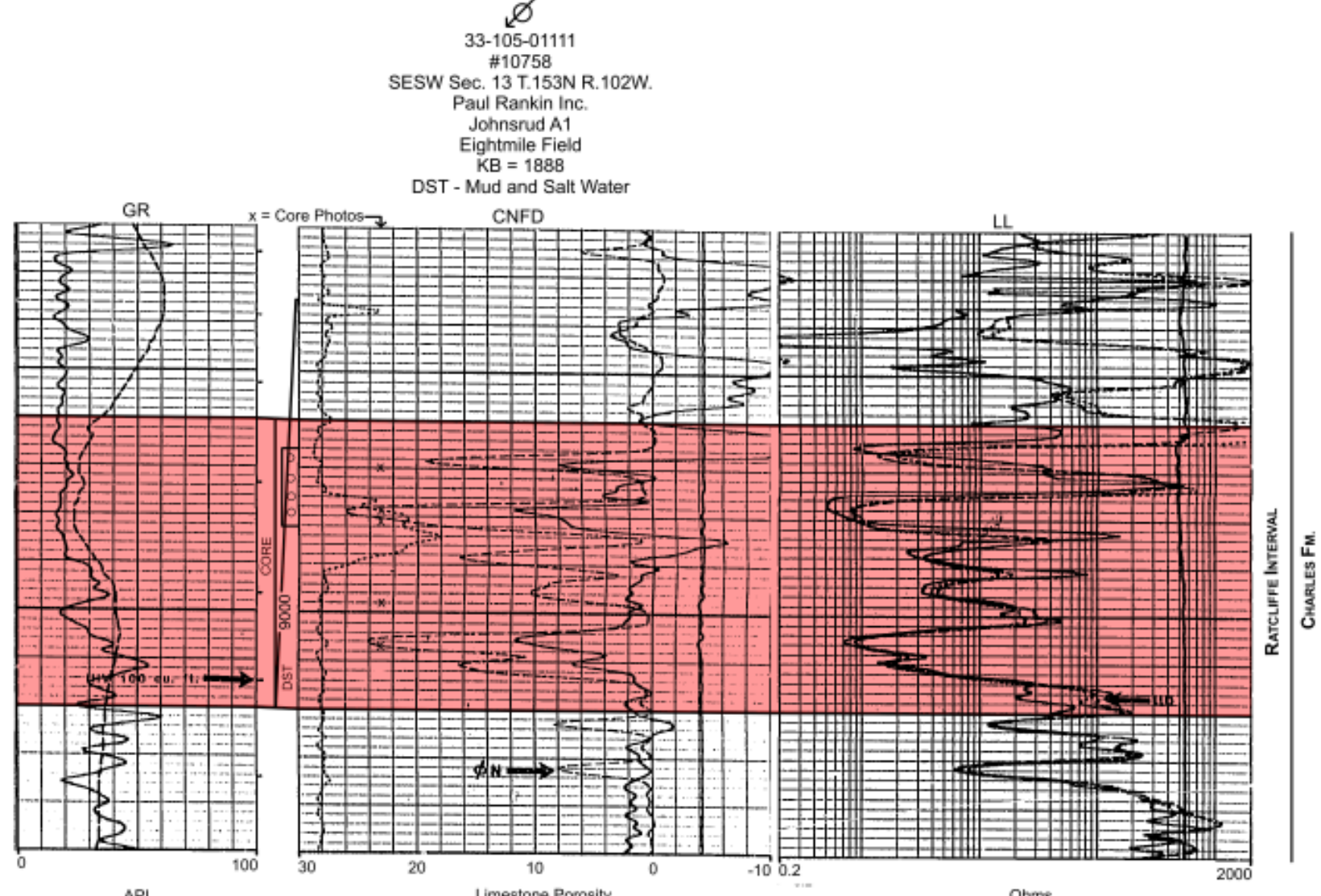


CORE PHOTOS PAY ZONE

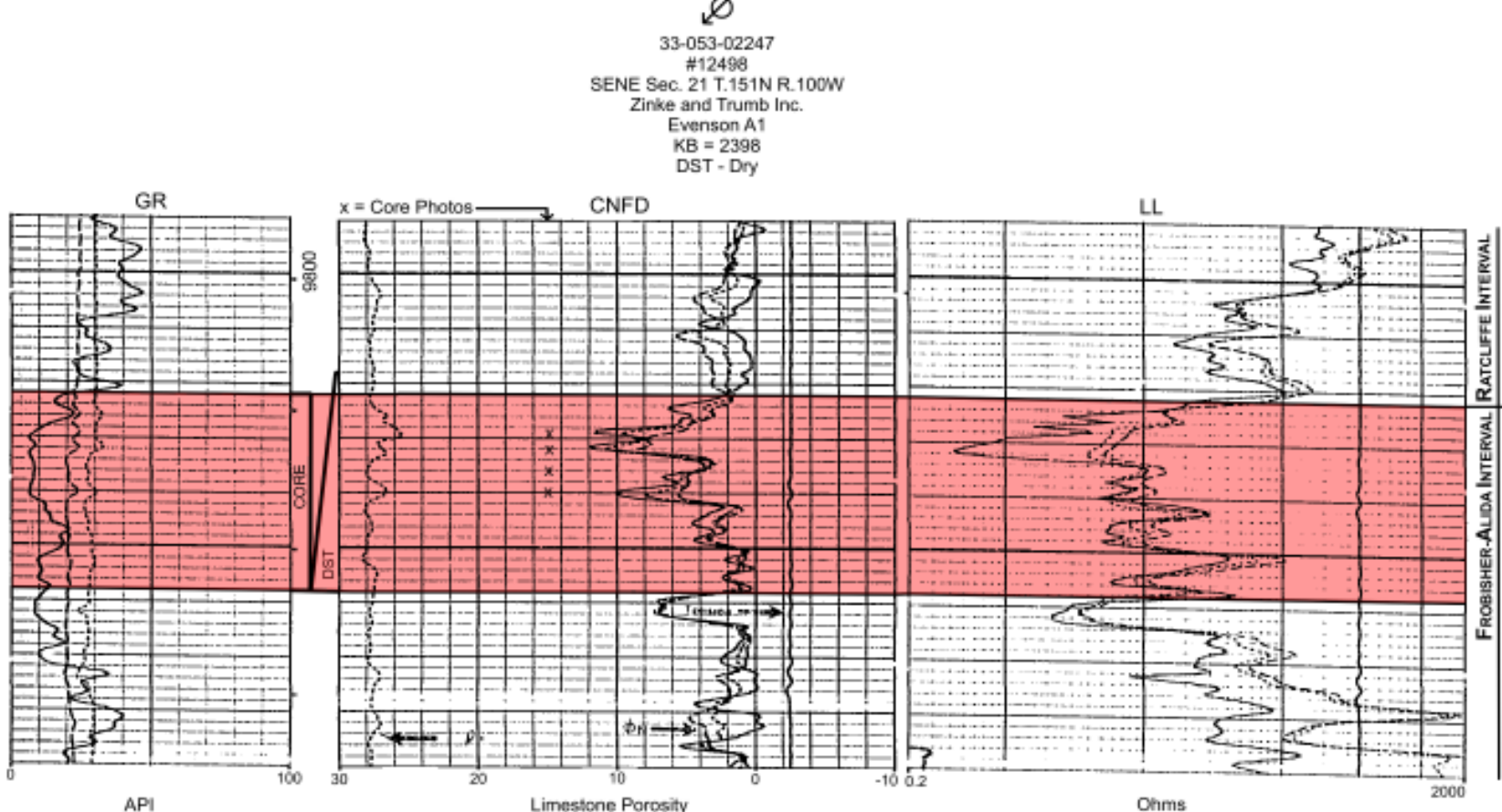
Ratcliff Representative Log



Ratcliff Interval, Charles Formation
 Well Core: File # 10758; API: 33-105-01111
 SESW Sec. 13 - T153N - R102W
 Core Photo - Log Depth: 8,967.8 - 8,968.2 feet
 Calcitic dolomite; dolomudstones overlain by thin laminated packstones and a thin intraclastic grainstone textures (mud dominated overlain by mud filled grain supported and rounded intraclast above an erosion surface); interpreted to be overwash deposits on supratidal flat
 Porosity appears to be fine grained intercrystalline dolomite and vugular resulting from primary deposition or replacement and the dissolution of grains. Core plug porosity 10.7%

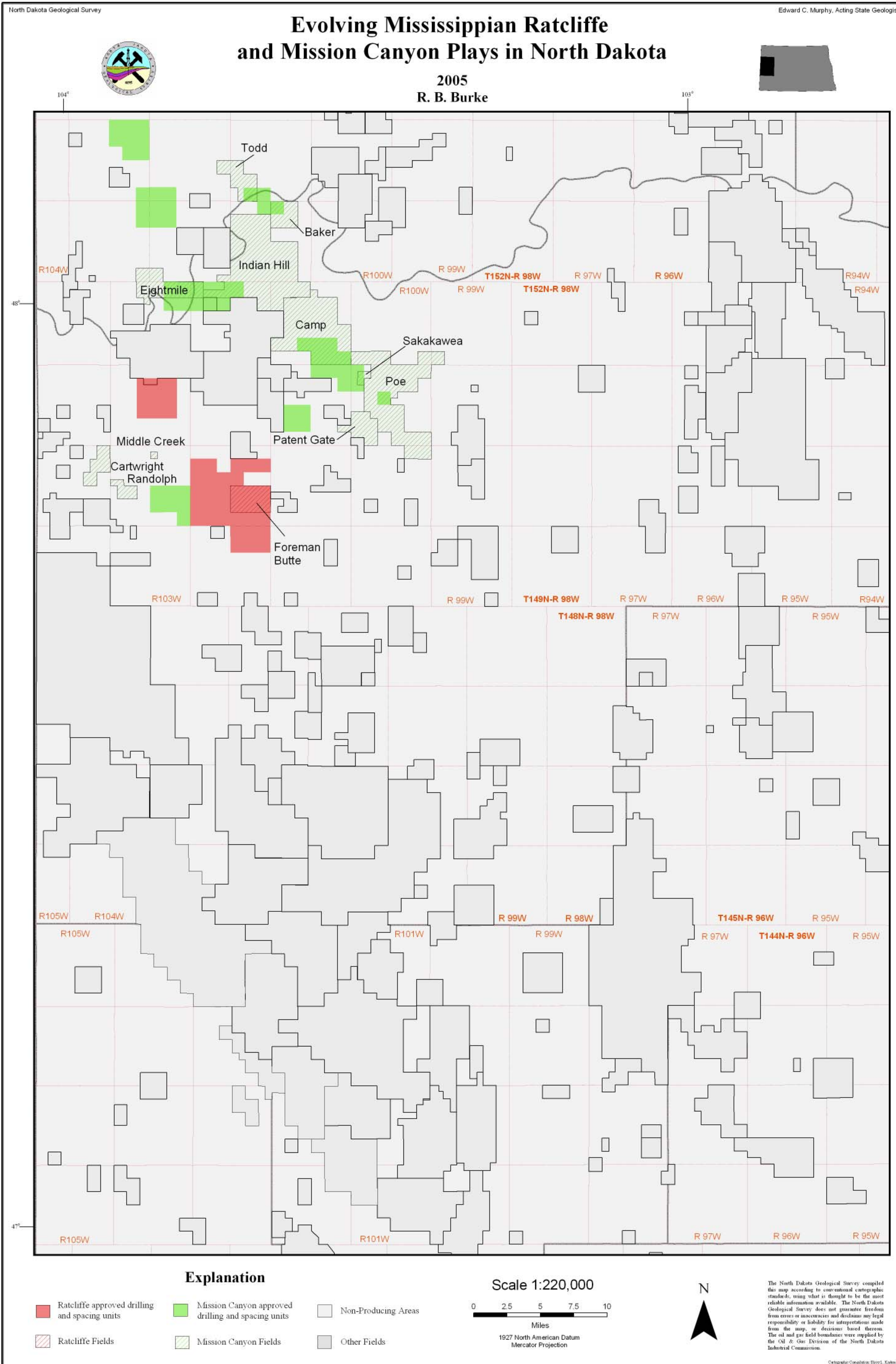
Ratcliff Interval, Charles Formation
 Well Core: File # 10758; API: 33-105-01111
 SESW Sec. 13 - T153N - R102W
 Core Photo - Log Depth: 8,980.8 - 8,981.4 feet
 Dolomitic limestone; wackestone texture (mud dominated with less than 50% grains); few skeletal grains and disturbed bedding interpreted to be subtidal deposits burrowed by sediment dwelling organisms
 Porosity appears to result from dolomitization of limestone and minor dissolution of grains. Core plug porosity 19.1%

Mission Canyon Representative Log

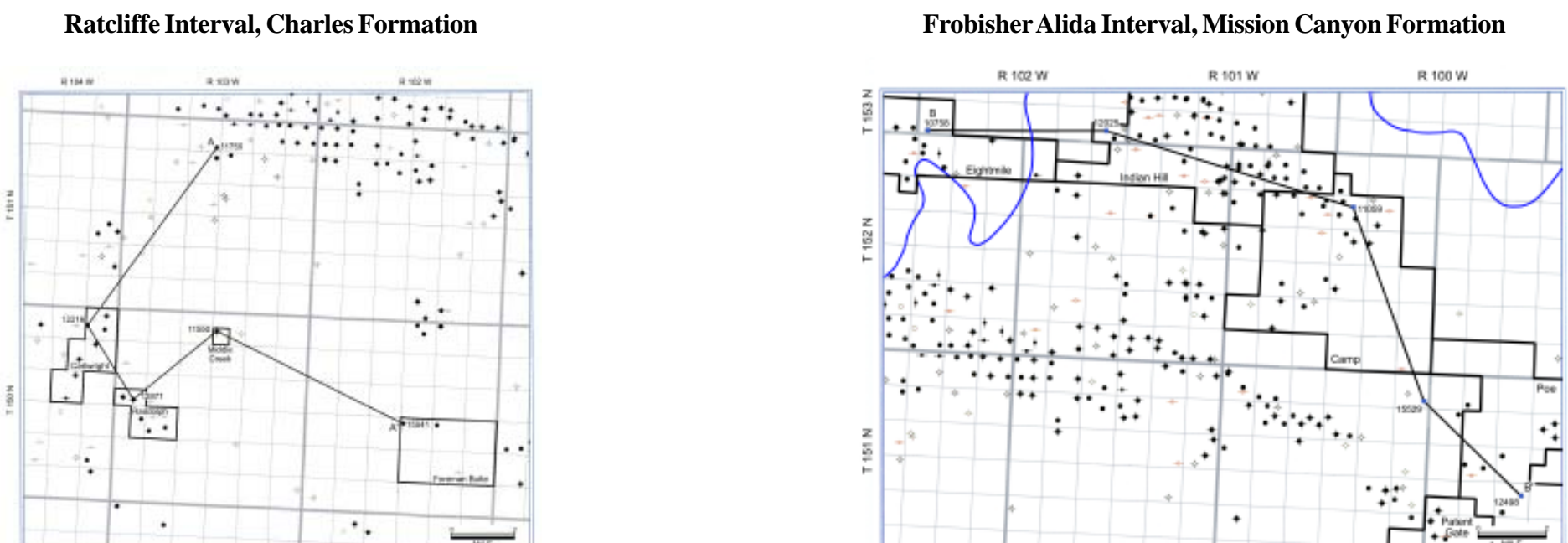


Frobisher Alida Interval, Mission Canyon Fm.
 Well Core: File # 12498; API: 33-053-02247
 SENE Sec. 21 - T151N - R100W
 Core Photo - Log Depth: 9,831.8 - 9,832.7 feet
 Limestone; wackestone to packstone textures (mud dominated with less than 50% grains to mud filled grain supported); grains appear to be dominated by peloids, ooids, and a few skeletal fragments and oncolites; suture seam stylolites indicate compaction dissolution
 Porosity appears to be intraparticle and vugular resulting from dissolution of grains and incomplete cementation; fractures contribute to porosity and permeability. Core plug porosity 9.5%

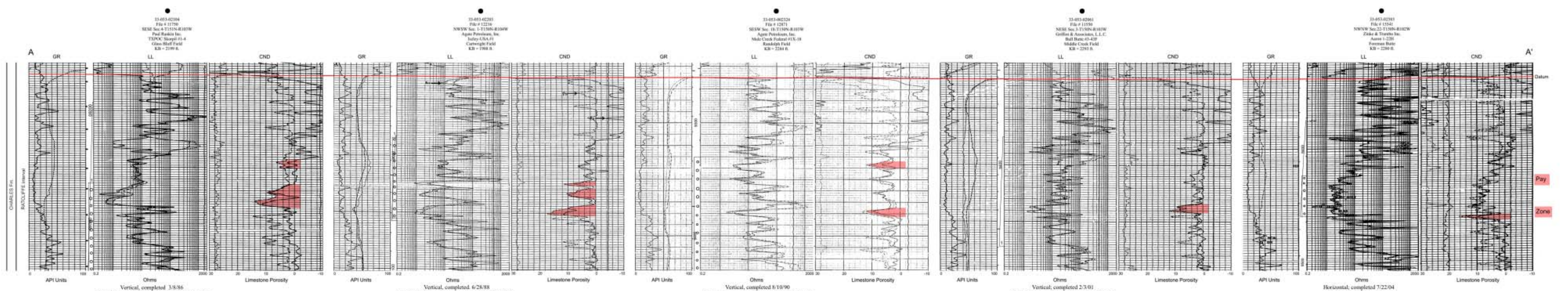
Frobisher Alida Interval, Mission Canyon Fm.
 Well Core: File # 12498; API: 33-053-02247
 SENE Sec. 21 - T151N - R100W
 Core Photo - Log Depth: 9,839.2 - 9,839.9 feet
 Limestone; packstone to grainstone textures (mud filled grain supported to grain supported); grains appear to be dominated by peloids, ooids, pisolites and a few skeletal fragments including brachiopods; cemented crusts interpreted to indicate subaerial exposure surfaces
 Porosity appears to be vugular and interparticle resulting from dissolution of grains and incomplete cementation. Minor reduction of porosity by cementation, probably anhydrite and/or calcite. Dissolution of grains suggest subaerial exposure. Core plug porosity 7.8%



Location of Cross Sections



Ratcliffe Interval Cross Section



Frobisher Alida Interval Cross Section

