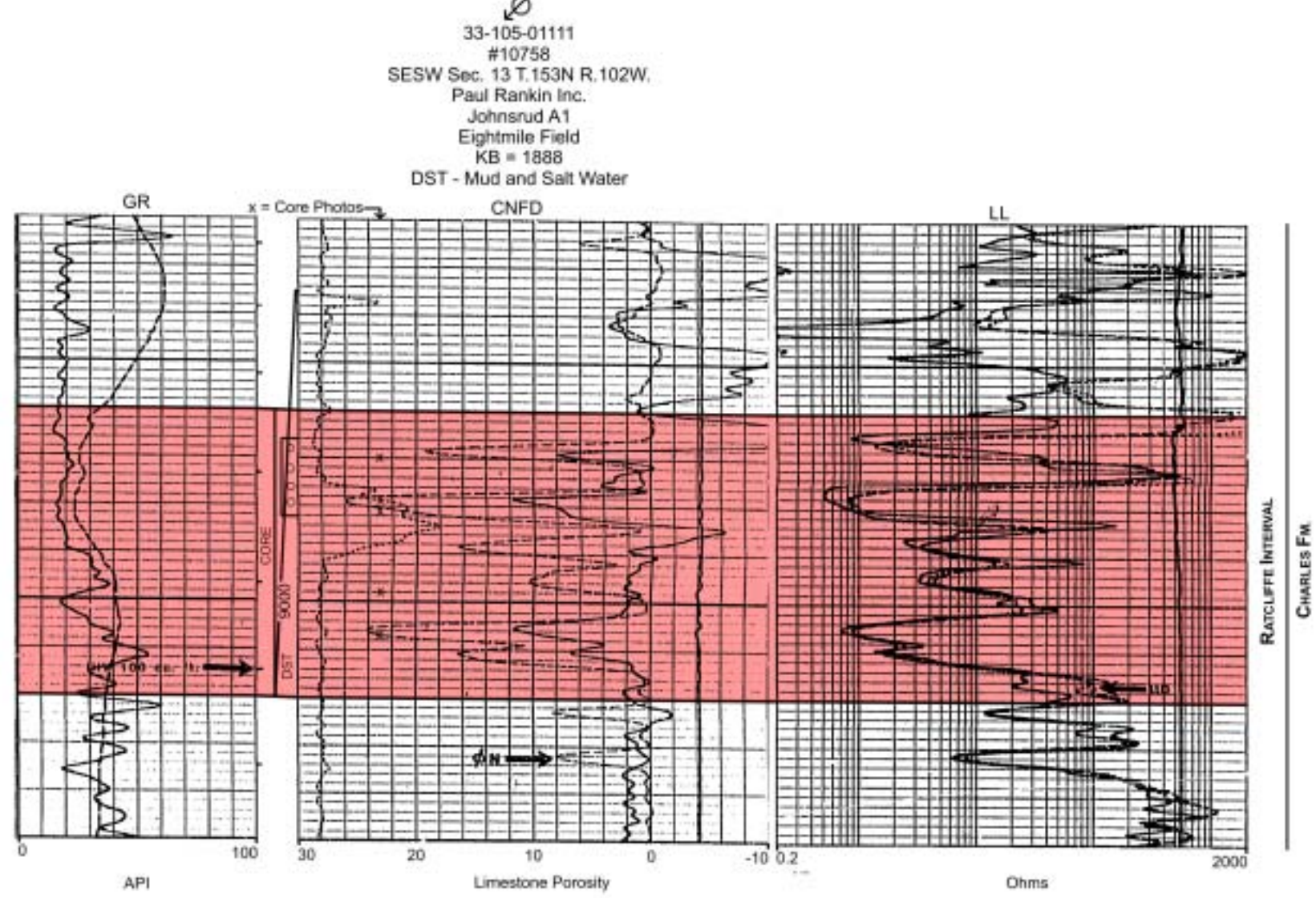


**CORE PHOTOS PAY ZONE**

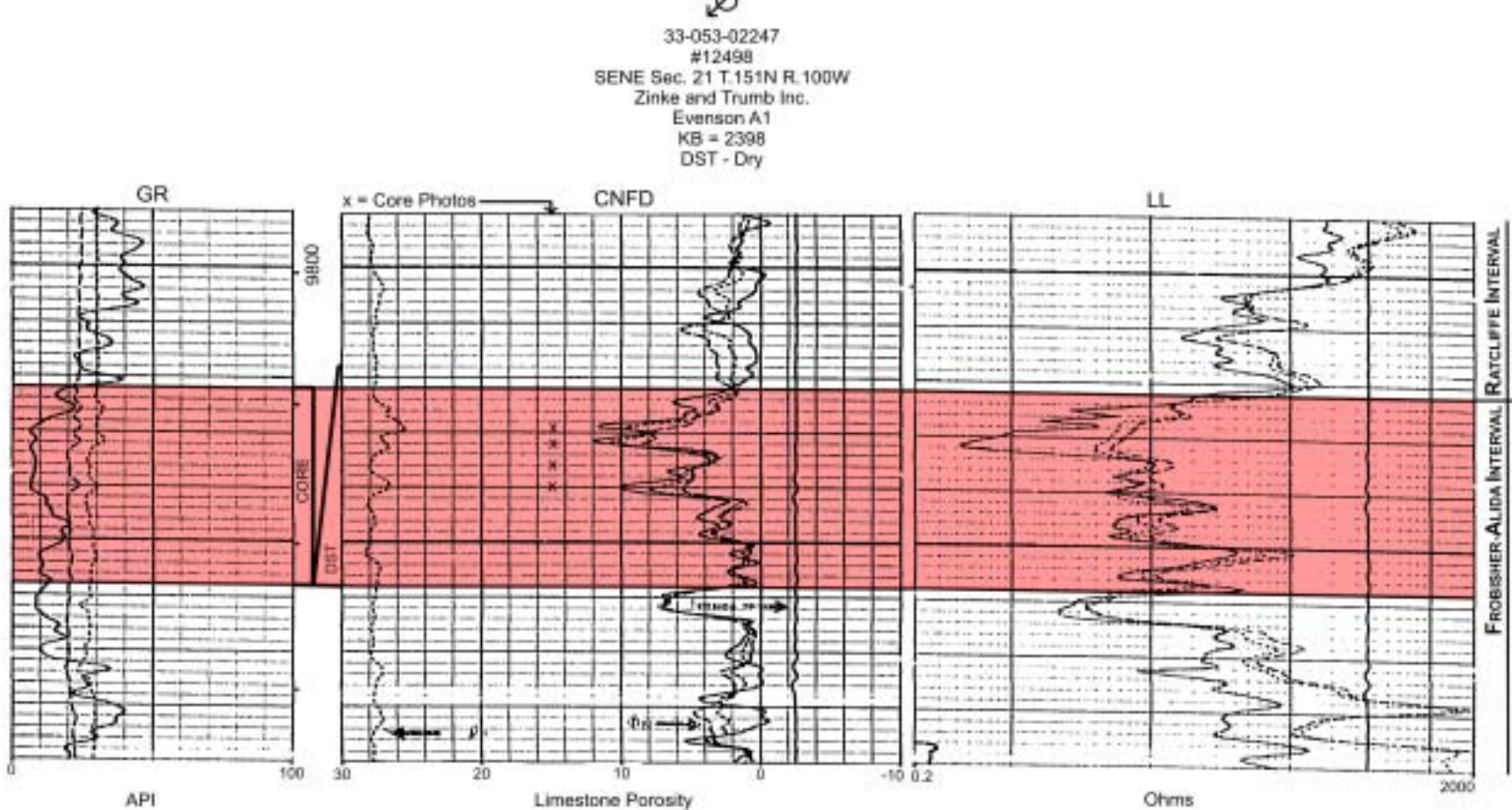
**Ratcliffe Representative Log**



**Ratcliffe Interval, Charles Formation**  
Well Core: File # 10758; API: 33-105-01111  
SESW Sec. 31 - T153N - R102W  
Core Photo - Log Depth: 8,967.8 - 8,968.2 feet  
Calcareous 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%

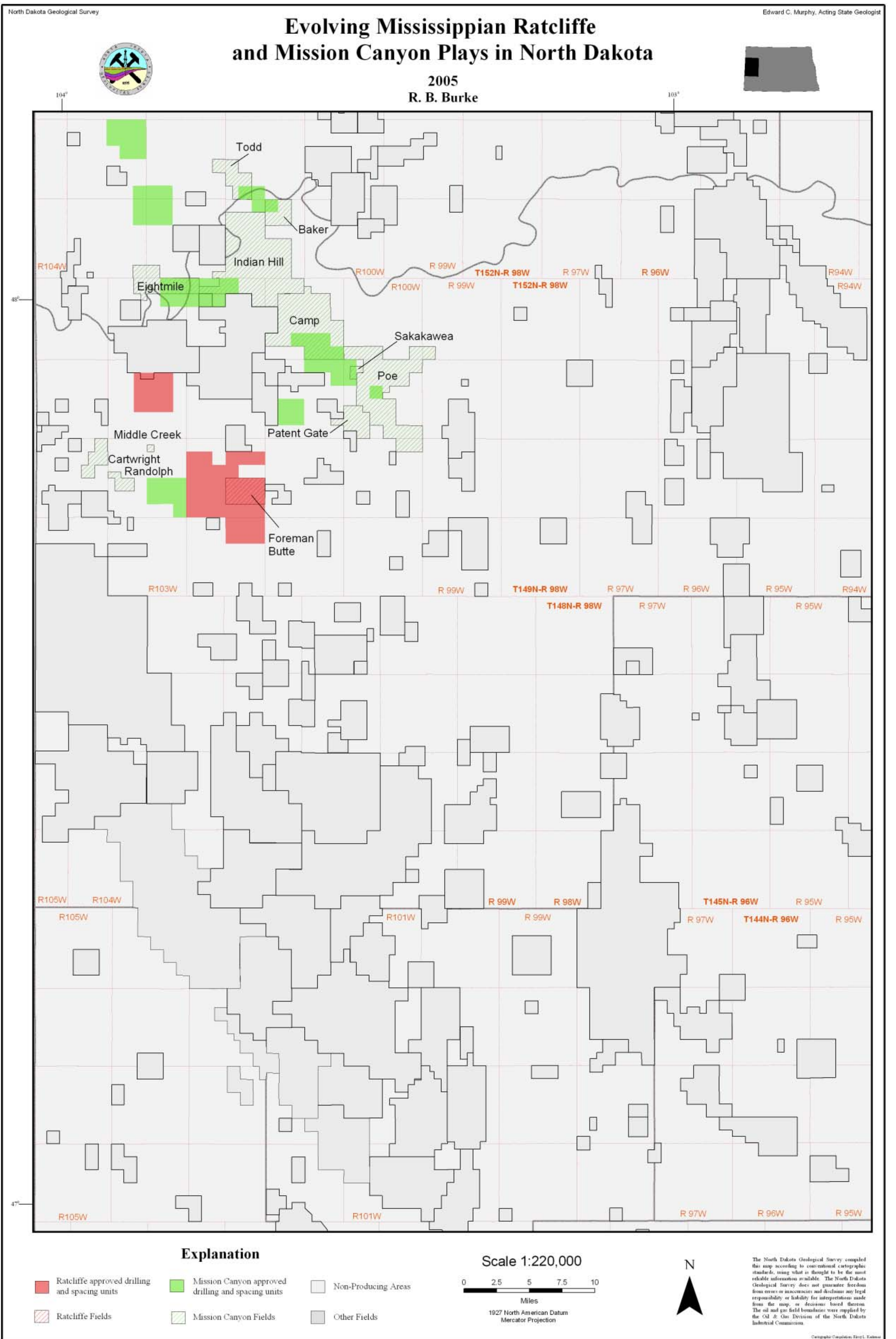
**Ratcliffe Interval, Charles Formation**  
Well Core: File # 10758; API: 33-105-01111  
SESW Sec. 31 - T153N - R102W  
Core Photo - Log Depth: 8,980.8 - 8,981.4 feet  
Dolomitic limestone; wackestone texture (mud dominated with less than 50% grains); few skeletal grains and disturbed bedding interpreted 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**



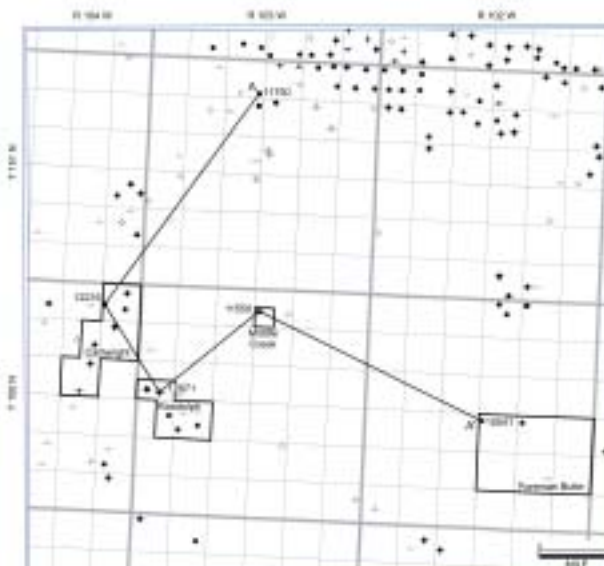
**Frobisher Alida Interval, Mission Canyon Fm.**  
Well Core: File # 12498; API: 33-053-02247  
SENE Sec. 21 - T151N - R100W  
Core Photo - Log Depth: 9,831.8 - 9,832.7 feet  
Limestone; wackestone to packstone textures (mud dominated with less than 50% grains to mud filled grain supported); grains appear 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%

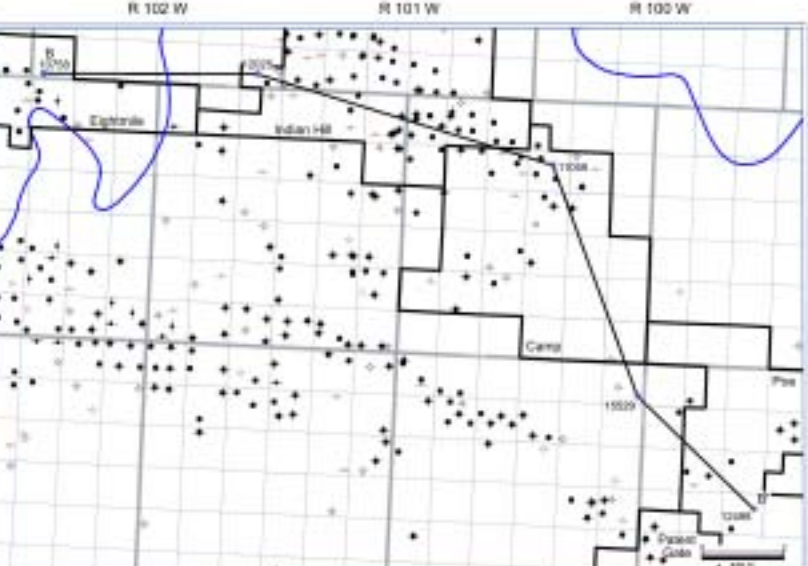


**Location of Cross Sections**

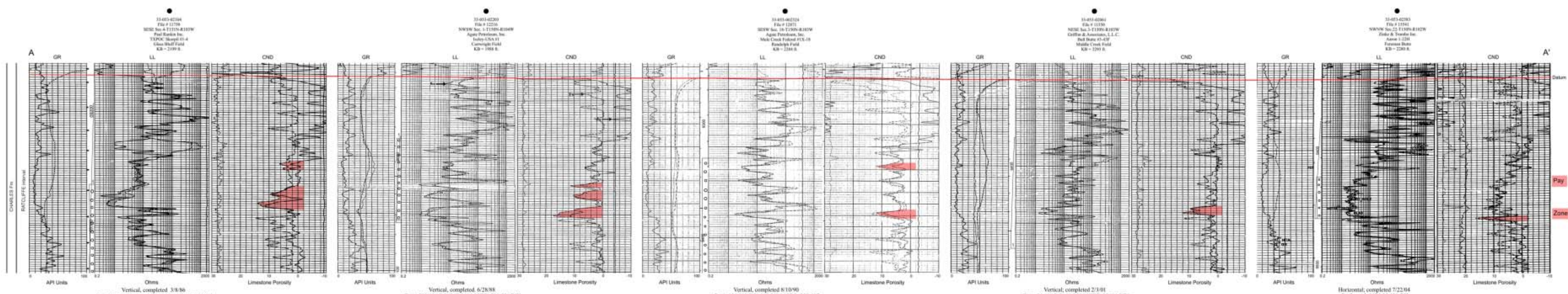
**Ratcliffe Interval, Charles Formation**



**Frobisher Alida Interval, Mission Canyon Formation**



**Ratcliffe Interval Cross Section**



**Frobisher Alida Interval Cross Section**

