

Date Logged: July 29, 2016

Released as part of Appendix 6 in  
AER/AGS Open File Report 2017-08

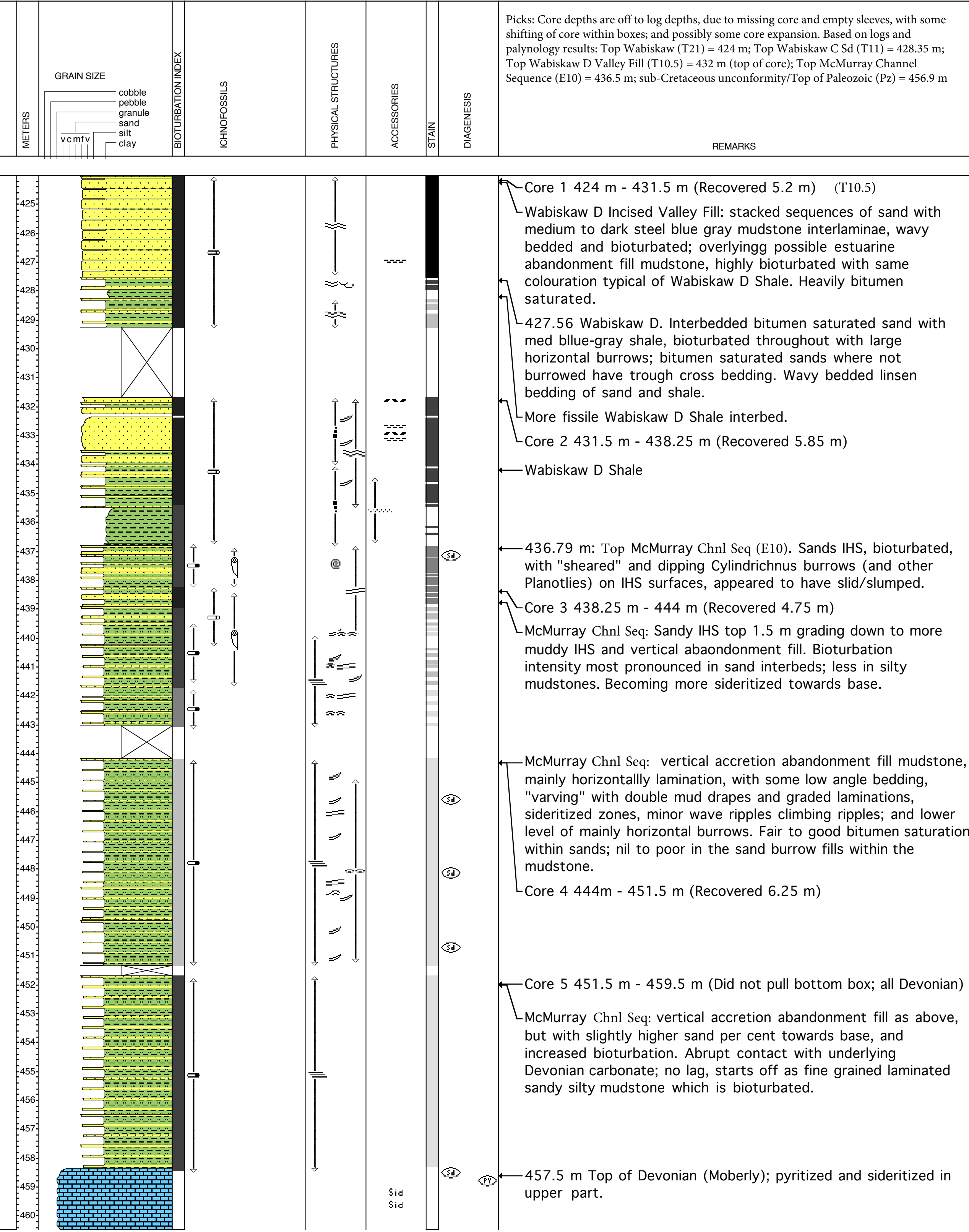
Logged by: F. J. Hein

























Ground: 723.9 m

KB: 727.3 m

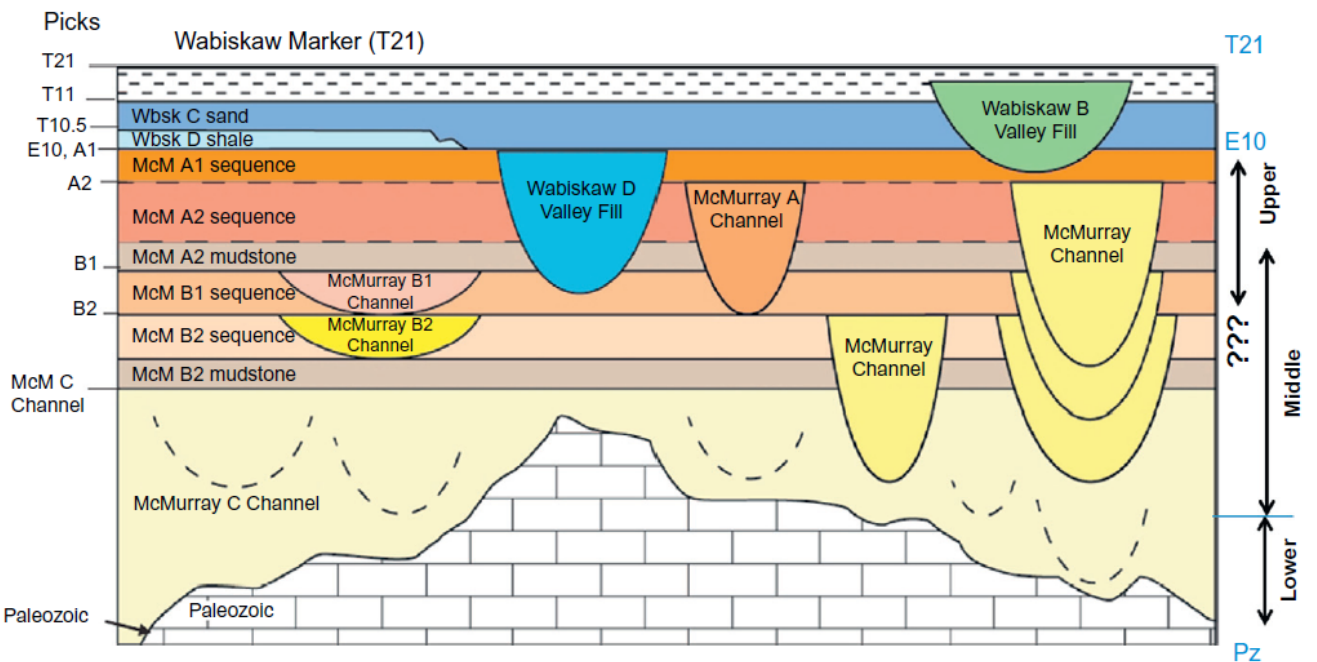
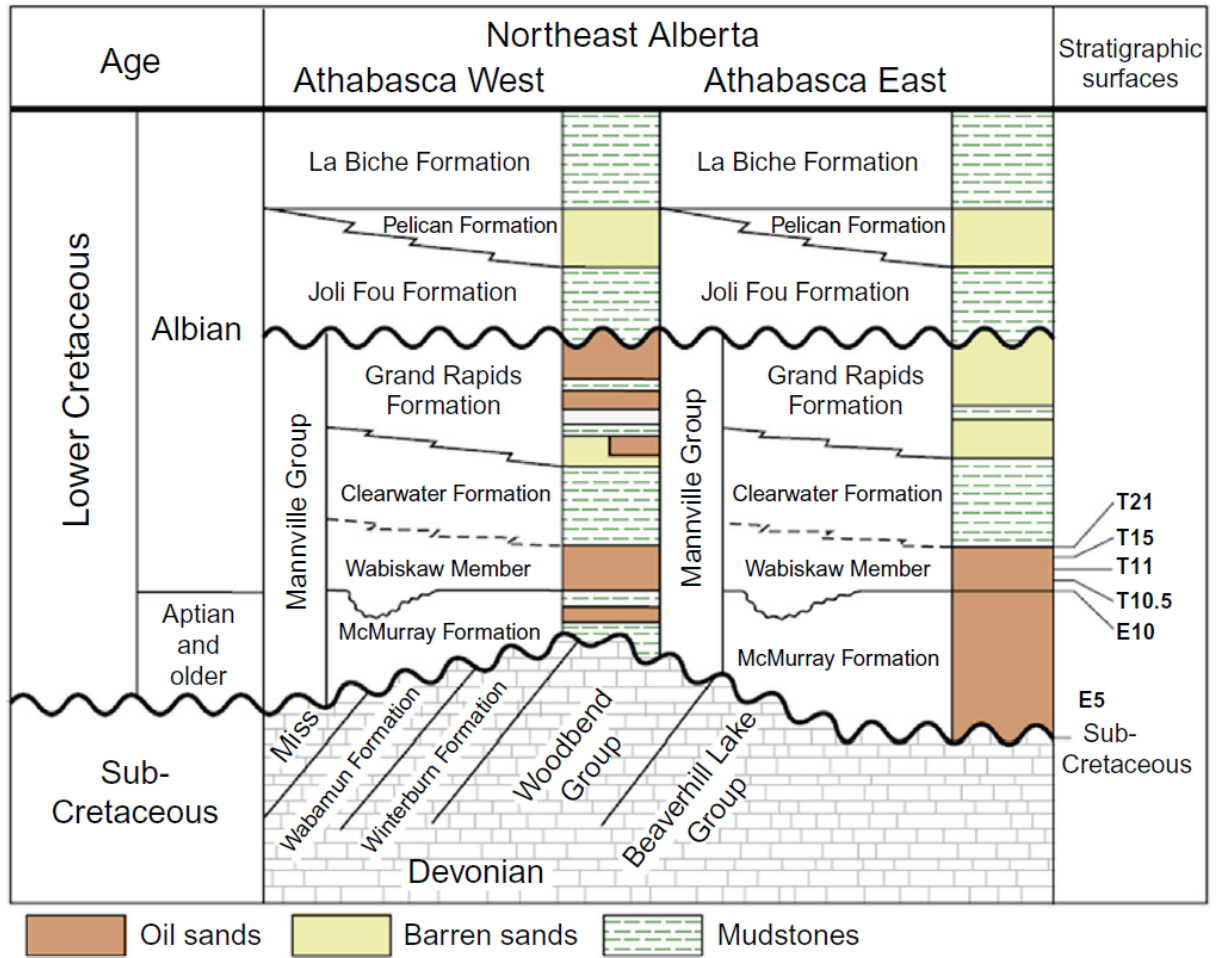
Remarks: Split core, in good condition. Wabiskaw D at top overlying McMurray sandy and muddy IHS, over thick abandonment fill mudstone, on Moberly Limestone. No Lower McMurray Fluvial / Continental succession present.

Done for compilation report on the litho- and palynostratigraphy by Hein and Dolby, posted on AGS website.



LEGEND				
LITHOLOGY				
 SAND/SANDSTONE	 SHALE/MUDSTONE	 silty shale	 LIMESTONE	 Lost Core
PHYSICAL STRUCTURES				
 Trough Cross-strat.	 Oscillatory Ripples	 Planar Tabular Bedding	 Low Angle Tabular Bedding	 Flaser Bedding
 Wavy Parallel Bedding	 Chaotic Bedding	 Graded Bedding	 Reverse Graded Bedding	 Double Mud Drapes
LITHOLOGIC ACCESSORIES				
 Sand Lamina	 Shale Lamina	 Siderite	 Rip Up Clasts	
ICHOFOSSILS				
 Planolites	 Palaeophycus	 Cylindrichnus		
DIAGENESIS				
 pyrite concretion	 siderite concretion			

# Stratigraphic Nomenclature for Picks



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**Definition of stratigraphic markers ('picks') with quality codes**  
(modified from Wynne et al., 1994 and Hein et al., 2000).\*

Pick	Type of Surface	Description	Quality Code**
T21	Transgressive	Wabiskaw Marker Top Wabiskaw Mbr. 'A'	Good - Very Good
T15	Transgressive	Top Wabiskaw Mbr. 'B'	Good - Very Good
E14	Major Erosion	Wabiskaw Internal Incision	Good - Very Good
T11	Transgressive	Base First Regional Marine Shale in the Clearwater Fm. Top Wabiskaw Mbr. 'C'	Very Good-Excellent
T10.5	Transgressive	Top Wabiskaw Mbr. 'D' Incised Valley-Fill Deposit	Excellent-Very Good
E10	Disconformity/ Unconformity	Top Upper McMurray Fm Major Erosion Surface	Excellent -Very Good
E5	Disconformity/ Unconformity	Top Lower McMurray Fm. Major Erosion Surface	Variable Very Poor -Fair
Sub-Cret. (Pal.)	Unconformity	Base of McMurray Fm Major Erosion Surface	Variable Very Good-Excellent (However this is sometimes difficult to pick in areas of significant clastic karst-infill, or where marl is above the sub- Cretaceous unconformity)

\* Abbreviations: Group, Grp.; Formation, Fm.; Member, Mbr.

\*\* Quality Codes are relative: Excellent to Very Good, can be picked on all wire-line logs and seismic; Poor to Very Poor, need to be confirmed by outcrops or core, difficult to pick on wire-line logs, somewhat easier to pick on seismic.

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