

STRATIGRAPHIC CORRELATION CHART

TGI II: Williston Basin Architecture and Hydrocarbon Potential in Eastern Saskatchewan and Western Manitoba

in Eastern Saskatchewan and Western Manitoba				
ERA	PERIOD	EASTERN SASKATCHEWAN glacial drift	MANITOBA SUBSURFACE glacial drift	MANITOBA OUTCROP
OIC	Quaternary	giaciai unit	giadiai ann	glacial ann
CENOZOIC	Tertiary	Wood Mountain Formation	Peace Garden Member Goodlands Member	Peace Garden Member Goodlands Member
Ö	Tertiary	Ravenscrag Formation	Goodlands Member	Goodlands Member
		Frenchman Formation Whitemud Formation	Boissevain Formation	Boissevain Formation
		Whitemud Formation Eastend Formation Bearpaw Formation Belly River Formation Lea Park Formation	Coulter Member	Coulter Member
		Belly River Formation Lea Park Formation	2 Millwood Member	က် Millwood Member
		≥ Milk River Formation	Pembina Member Gammon Ferruginous Member	Pembina Member Gammon Ferruginous Member
	ဟ	Niobrara Formation		
	RETACEOUS	Boyne Member Worden Member	Boyne Member Morden Member	Calcareous Shale Unit O West Sh
<u>ပ</u>	ETAC	Morden Member Second White Speaks	Mordon Monitor	
	CR	Second White Specks	Assiniboine Member Keld Member	Member Keld Laurier Limestone Beds
MESOZO		Belle Fourche Formation		
		Fish Scale Formation Westgate Formation	Base of Fish Scale marker Westgate Member	Base of Fish Scale marker
		Newcastle Formation Viking Sandstone Joli Fou Formation	Newcastle Member Skull Creek Member	Westgate Member Skull Creek Member
		Pense Formation (P4) P2+P3 (lithological tops of sand) Cantuar Formation	Pense P4 marker	
		Cantuar Formation S2 S1	Swan River Formation Success Formation (S ₂)	Swan River Formation Success Formation (S₂)equivalent
		S ₁ Masefield Shale	Waskada Formation	
	JURASSIC	Rierdon Formation Shaun- Upper Member	Upper Melita Member Lower Melita Member	
	JUL	Cravel- bourg Fm Lower Member	Reston Lower Gravelbourg "marker"	Reston Formation
	<u> </u>	Lower Member Lower Member	Upper (Evaporite) Member Lower (Red Beds) Member	Upper Evaporite Lower Red Beds
	TRIASSIC	Lower Member	Lower (Red Beds) Member	Lower Red Beds
				St. Martin Igneous & Metamorphic Complex
	PERMIAN Pennsylvanian			
	Jivaindii	BIG SNOWY GROUP		
		Beds		
		Greenpoint Anhydrite		
		Oungre Evaporite Oungre Zone Oungre Zone		
		Midale Evaporite upper		
		lower Frobisher Evaporite		
	PIAN	Hastings Evaporite		
	MISSISSIPPIAN	Frobisher Beds	Charles Formation	
	MISSI	NO NO Interval	Interval	
	_	Wission Canyon GROUP Wission Canyon Group Alida Beds Alida Beds	Dando Evaporite MC-3a MC-3a	
		≥ Tilston Beds	MC-3b Dando Evaporite MC-3a MC-3a upper MC-2 marker MC-2 marker MC-1 Member	
			Flossie Lake Member Slope facies (Daly Field) Shelf facies (Virden Field)	
			U b upper 5 b	
			Cruickshank Shale facies Shale facies	
		Souris Valley Beds	Cruickshank Crinoidal facies Cromer Cromer	
			Cromer Shale facies lower	
			Basal Scallion Member Limestone facies Routledge Shale facies	
		Upper Member	(1000000000000000000000000000000000000	
	? —	Upper Member Middle Member Lower Member Big Valley Formation	Upper Member Middle Member Lower Member	
		111	QU'APPELLE GROUP	
		Torquay Formation	Three Forks Formation	
		Upper Birdbear Lower Birdbear	Upper (biohermal facies) Lower (platform facies)	
			JOS Z CROU	
		Seward Member Seward Member Flat Lake Evaporite Unpper Middle Lower Elstow Member	Seward Member Seward Member Flat Lake Evaporite Unper Widdle Middle Lower	V GROUP
		Flat Lake Evaporite Upper	Flat Lake Evaporite Upper Upper	Duperow Formation
		Middle Lower Elstow Member	Middle Lower Elstow Member	SASKATC
ပ		Saskatoon Member Hatfield Member	Saskatoon Member Souris River marker Hatfield Member	Hatfield/Minitonas Member
OZOIC		Upper Harris Evaporite Harris Member	Hatfield Member Harris Member	E Sagemace Member
PALE	Z	Lower Harris Evaporite	River F	
	DEVONIAN	Davidson Member	Davidson Member	Basal Shale Dolomitic Limestone Beds Micritic Limestone Beds Argillaceous Limestone Beds
	DE	Davidson Evaporite Davidson Member Davidson Member Davidson Member Davidson Member Hubbard Evaporite	Davidson Member Sontis Sontis WANITO BY CROND Surje Surje Hubbard Evaporite Hubbard Evaporite	First Red Beds
		Neely Member Burr Member Second Red Bed Member	Hubbard Evaporite Neely Member Burr Member Second Red Bed Member	
		Burr Member	Burr Member	Middle Member (C) Lower Member (B)
		Patience Lake Member	Second Red Bed Member	Second Red Bed Member (A)
		Belle Plaine Member White Bear Member Esterhazy Member	White Bear Member Esterhazy Member	
		Esterhazy Member	Esterhazy Member	
		Transitional Unit Upper Member	Transitional Beds Upper Member Lower Member	Transitional Beds Upper Member Lower Mb Elm Point Formation
		Lower Member Ashern Formation	Lower Member Ashern Formation	Lower Mb Elm Point Formation Ashern Formation
		Upper Interlake	upper Interlake equivalent	Cedar Lake Formation
		<u> </u>		East Arm Formation
	N	RICAKE GROCI ake Formation Community of the Carbon Language Formation Carbon Language Carbon L	H H H H H H H H H H H H H H H H H H H	Atikameg Formation
	SILURI	Interior Int	□ lower Interlake equivalent □ □ □	Moose Lake Formation
	(J)	Lower Interlake Anhydrite Upper Stonewall Anhydrite	LO LO	Fisher Branch Formation
		rmation	Upper Stonewall Stonewall Lower Stonewall	upper Stonewall
	?	Medial Stonewall Anhydrite	Land	lower Stonewall
		Basal Stonewall Anhydrite Williams Member	Basal Stonewall Anhydrite Williams Member	Williams Member
		Gunton Anhydrite	Gunton Anhydrita	E.
		Gunton Member Gunton Member Gunton Member	Mount Man 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Gunton Member Penitentiary Member Gunn Member Gunn Member Hortoven Member
		Gunn Member Hartaven Member Redvers Unit Company Comp	Gunton Member Gunton Member Gunton Member Gunton Member Hartaven Member Redvers Unit	Gunn Member Hartaven Member
	ICIAN	Coronach Member	Coronach Offit	Fort Garry Member
	ORDOVICIAN	Lake Alma Anhydrite Lake Alma Member	Lake Alma Anhydrite Lake Alma Unit	nation
	OR	River	Lake Alma Anhydrite Lake Alma Unit Iower Red River (Yeoman equivalent)	IL I
		Yeoman Formation	ଥା lower Red River ପ୍ରାଷ୍ଟ (Yeoman equivalent) ଥା	Selkirk Member Selkirk Member Cat Head Member
		Hecla Beds	Hecla Beds	Dog Head Member Hecla Beds (Unit A)
		Icebox Member	upper unit	Winnipeg Formation
		Black Island Member	lower unit basal sandstone unit	pog i omation

Deadwood Formation

Precambrian

CAMBRIAN

PRECAMBRIAN

Deadwood Formation

Precambrian

Deadwood Formation