

ERA	PERIOD & EPOCH		S. REGION OF N.E.B.C.			
			PLAINS			
CENOZOIC	QUATERNARY		BOULDER CLAYS, SAND AND GRAVEL, VARVED CLAYS, SILTS			
MESOZOIC	CRETACEOUS	UPPER			WAPITI	
					PUSKWASKAU	
					BADHEART MUSKIKI	
					CARDIUM	
					KASKAPAU HOWARD CREEK SS. POUCE COUPE SS. DOE CREEK SS.	
				DUNVEGAN		
			LOWER	SHAFTESBURY		
		FERT SAINT JOHN GROUP		PEACE RIVER		
				PADDY CADOTTE HARMON		
				SPIRIT RIVER		
	NOTIKEWIN FALHER WILRICH					
	BLUESKY					
			GETHING			
			CADOMIN > BUICK CREEK SS.			
			NIKANASSIN			
	JURASSIC <th>UPPER</th> <td colspan="3">NIKANASSIN</td>	UPPER	NIKANASSIN			
		MIDDLE	PASSAGE BEDS			
		LOWER	POKER CHIP			
			NORDEGG			
	TRIASSIC	UPPER		PARDONET		
			BALDONNEL			
			CHARLIE LAKE			
			HALFWAY			
			DOIG			
MIDDLE						
LOWER			MONTNEY			
PALEOZOIC	PERMIAN		ISHBEL	BELLOY		
	PENNSYLVANIAN		STODDART	TAYLOR FLAT		
	MISSISSIPPIAN	UPPER	STODDART	KISKATINAW		
				GOLATA		
		LOWER	RUNDLE	DEBOLT		
				SHUNDA		
				PEKISKO		
		BANFF				
		EXSHAW				
	DEVONIAN	UPPER	WABAMUN			
				SILTY LIMESTONE UNIT		
				FORT SIMPSON		
				MUSKWA		
				BEAVERHILL LAKE		
		MIDDLE	ELK POINT GROUP	SLAVE PT.		
				ELK POINT GROUP		
	SILURIAN					
ORDOVICIAN						
CAMBRIAN			QUARTZITES, SHALES AND DOLOMITES OF UNCERTAIN AGE			
PRECAMBRIAN			PRECAMBRIAN			

7,500 kPa is the pressure value that indicates the change from supercritical CO₂ to gaseous CO₂ in the subsurface. CO₂ is generally supercritical in the Debolt south of this line.

The 800m TVD line is the northern limit of evaluation for the Debolt



NEBC Geological Carbon Capture and Storage Atlas

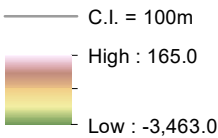


Debolt Subsea Structure

Filename: GBCS_DEBOLT_STRUCTURE	Figure
Author: T. Wilson	Project: GBCS
Cartographer: C. Keeler	Created: 05-August-2022
Reviewer: M. Fockler	Last Edited: 30-November-2022

14.5

Debolt Subsea Structure (m)

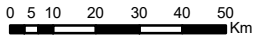


Geology

- Debolt Erosional Edge (WCSB Atlas, 1994)
- Pekisko Erosional Edge (WCSB Atlas, 1994)
- Shunda Erosional Edge (WCSB Atlas, 1994)
- Mesozoic Deformation Front

CO₂ Storage Key Transitions

- Pressure 7,500 kPa
- Temperature 31°C
- TVD 800m



Projection: UTM Zone 10; Central Meridian -123; NAD 1983