GRINDLE HILLS

STRATIGRAPHIC SECTION

Sec. 13 T19S R12-13E C.R.M.

Bering Glacier Quadrangle

Date: June 1975

Measured By: W.L., I.P., J.W., G.W.

			Covered				PERME-	PPM
T	T					PERCENT	ABILITY	CARB
				Thinly bedded <u>Mudstone</u> , <u>Siltstone</u> , and <u>Sandstone</u> visually estimated-section not traversed.				
		20 JCW 75-			h in massured section hore	indeterminate	bathyal?	
		19 JCW 75-	- 1 -		Begin measured section here	4.1	< .01	
		18 JCW 75-	-	162'	Massive <u>Sandstone</u> , very fn. gr., coarsening to m. gr. toward top of unit. Low angle cross-bedding, very well indurated. No visible p and p. Sharp contact with unit above. Sand has	3.9	< .01	
- 0	NE	1.7 JCW 75—	-		shale rip-up clasts at top, calcareous nodules weather to limonitic stain.	3.8	< .01	
		15 JCW 75		30'	Alternating thin bedded <u>Mudstone</u> , <u>Siltstone</u> , and <u>Sandstone</u>			
		ORIENTED SI N75°E,36°N		62'	Sandstone, very fn. gr. (.lmm.), m. gy. (N-4). Massive, with low angle cross-bedding, very well indurated, no visible p and p.	3.2 1.9	< .01	
	OCE	14JCW75	4.0000000	15' 45'	Sandstone, fnm. gr., M-L gy. (N-6), weathers moderate brn. (5YR) 4/4), laminar bedding 2'-4' thick. Angular fracture.	3.8	< .01	4
	JPPER	50 WL75 46 WL75 48 WL75 49 WL75 50 WL75 51 WL75 52 WL75		12' 44' 19' 8'	Alternating Sandstone, Siltstone and Claystone thin beds Sandstone, lt. olv. gy., well sorted ½"-2" basal coal Sandstone, lt. gy., fn. gr. with laminations Siltstone, blk., chippy weathered, with ss. laminations Sandstone, same as 48L75 massive, hard and tight Mudstone, gyolv. gn. weathers lt. gy.	4.9 3.3	0. 0. 0.	3
		Kultieth	0 0	100'	Sandstone, gyolv. gn. weathers lt. olv. gy., fn. to m. gr., well sorted, sub-angular, massive bedded, extremely well indurated, no p and p "building stone" cross-beds			
	MIDDLE			15'	Sandstone, as above, dark weathering			
		53WL75	- 1971 1474			6.4	< .48	
		54WL75	-	10.5'	Sandstone, lt. gy., m. gr., faintly banded, massive bedded, cross- bedded, two minor 2-3' lenses with graded bedding			
				100'	Sandstone weathers darker gy. Cross-beds common. Ripple marks at bottom of unit, 050 -238 normal to troughs			
		N88°W 37°N		12'	Alternating Sandstone and Siltstone in beds to 2' thick			
1		12J©W75—	-	48'	Sandstone, fnm. gr., lt. gy. (N-7), in coarsening upward cyclothems averaging 3' thick. Large pieces of carbonized wood at some bed boundaries, large scale low angle cross-bedding, lots of mud chips. Lower 25' is massive. Fluvial environment?	3.3	< .01	
			1	1	Section covered below here with snow and talus. AVERAGE	3.9	< .06	

Scale: |" = 100"