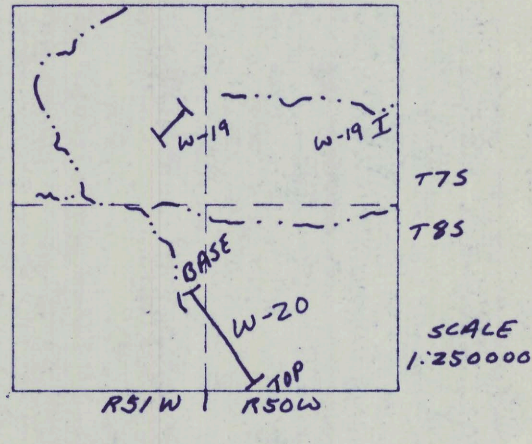


NAME W-20: NORTHWEST FLANK OF PITMEGA SYNCLINE
AREA OR WESTERN NORTH
QUAD DE LONG MTS. QUAD STATE ALASKA
LOCATION 13 85 50W
SEC. 1020 TWN. 85 RNG. 51W
MEASURED BY K.W. SHERWOOD DATE 7/77
INTERVAL KUKPOWUK FORMATION
REMARKS SAMPLES DESIGNATED "PL77 PS-"



Plotted by Beth King

PERIOD	EPOCH/STAGE	FORMATION/MEMBER	CUMULATIVE FOOTAGE	SAMPLES WITH LAB DATA OR PALEO DATA	LITHOLOGY	MASTER BEDDING	PALEOCURRENT DATA	INTERVAL THICKNESS	DESCRIPTIONS
				*=SOURCE ROCK ANALYSIS AVAILABLE					
CRETACEOUS	CRETACEOUS	CORWIN FORMATION	6870'		Top of Exposure				
			6860'	RLS-144; PL77 PS-144 $\phi = 4.9$ Kmd = 0.0072					3.0 Sandstone, lg, lt. gray-brn, mod. well sorted, abundant iron oxide spots, 3m-scale trough cross-bed decreasing upward from 6" to 1/2".
			6850'						0.2 Sandstone & siltstone interbedded as below.
			6840'						1.5 Sandstone, med. g, lt. gray-gr, mod. calcareous, 3m-scale low-angle trough cross-beds in sets 0.5' thick. Base covered.
			6830'						0.8 Sandstone, med. g, lt. gray-gr, mod. calcareous, 3m-scale low-angle trough cross-beds in sets 0.5' thick. Base covered.
			6820'						2.5 Sandstone, med. g, lt. gray-gr, mod. calcareous, 3m-scale low-angle trough cross-beds in sets 0.5' thick. Base covered.
			6810'						6.0 Sandstone, lg, lt. gray, weathers med. brn, mod. calcareous material, 3m-scale low-angle trough cross-beds, 3m-scale tabular cross-beds, scoured by bed above.
			6800'						1.5 Sandstone, med. g, lt. gray-brn, mod. well sorted, mod. calcareous, base sharp-erosional climbing ripples in sets up to 1' thick.
			6790'						2.0 Sandstone, med. g, lt. gray-brn, mod. well sorted, mod. calcareous, base sharp-erosional climbing ripples in sets up to 1' thick.
			6780'						3.0 Sandstone, med. g, lt. gray-brn, mod. well sorted, mod. calcareous, base sharp-erosional climbing ripples in sets up to 1' thick.
CRETACEOUS	ALBIAN	KUKPOWUK FORMATION	4350'		Est. 2500' covered				
			4340'						5.0 Sandstone, med. g, lt. gray-brn, mod. well sorted, mod. calcareous, base sharp-erosional climbing ripples in sets up to 1' thick.
			4330'		Est. 200' covered				
			4320'						3.0 Shale, med. dk. gray.
			4310'	* RLS-145; PL77 PS-145					
			4300'		Est. 1050' covered				
			4290'						9.0 Sandstone, lg, med. brn, non-calcareous, locally pebbly, 3m-scale low-angle tabular and/or trough cross-beds in sets up to 3' thick, numerous scour surfaces, wood imprints at top.
			4280'		Est. 330' ± covered				
			4270'						12.5 Sandstone, lg, lt. tan-gray, slightly calcareous, trace of carbonaceous material on bed planes, 3m-scale low-angle trough cross-beds, 4' climbing ripples in sets up to 1' thick; 3' tabular cross-beds 3' thick; 2' 3m-scale trough cross-laminations.
			4260'		Est. 150' covered				
CRETACEOUS	ALBIAN	KUKPOWUK FORMATION	2740'						19.0 Sandstone, m-cg @ base, med. g @ top, locally pebbly, lt. gray, salt & pepper, non-calcareous, carbonaceous mat'l locally abundant on bed surface. Trough cross-beds 4' thick, 40' long, scoured basal surfaces, bed 4' thick, less der. toward top. Max pebble diam. 1".
			2730'						
			2720'						
			2710'						
			2700'						
			2690'						
			2680'						
			2670'	RLS-143; PL77 PS-143 $\phi = 7.6$ Kmd = 0.23					
			2660'		Est. 750' covered				
			2650'						
CRETACEOUS	ALBIAN	KUKPOWUK FORMATION	1820'						2.5 Sandstone, lg, lt. tan-gray, mod. well sorted, non-calcareous, carbonaceous mat'l dispersed throughout, in sets to 2.5' thick.
			1810'						2.8 Sandstone, lg, med. gray-brn, non-calcareous, carb. mat'l on bedding planes, base sharp, top sharp, rippled, 3m-scale trough cross-laminations in sets to 1' thick. Ripple transport direction: S 40W.
			1800'						15.5 Sandstone, f to med. grain, lt. gray-brn, non-calcareous, trace of carbonaceous mat'l, 3m-scale low-angle trough cross-beds, sets to 3' thick, wood molds, sharp pebbles.
			1790'		est. 100'-200' covered				
			1780'						
			1770'						
			1760'						
			1750'						
			1740'						30' Sandstone, fine to med. grain, lt. tan-gray, non-calcareous, carbonaceous mat'l in bedding plane, porous, 3m-scale trough cross-beds, in sets > 5' thick, pebbles, logs, pebbles, iron stnd chert & shale. Max dia 1 1/2".
			1730'						
			1720'						
CRETACEOUS	ALBIAN	KUKPOWUK FORMATION	1630'						
			1620'						
			1610'						
			1600'						
			1590'						
			1580'						
			1570'						
			1560'						
			1550'						
			1540'						
CRETACEOUS	ALBIAN	KUKPOWUK FORMATION	1050'						8.0 Sandstone, med. brn, c. vcg, locally pebbly, pebbles gray chert, blk chert, coal-pale green chert, olive green chert, non-calcareous, carb. mat'l on bedding planes, base sharp, top sharp, rippled, 3m-scale trough cross-laminations in sets up to 2' thick, poorly defined.
			1040'						
			1030'						
			1020'						
			1010'						
			1000'						
			990'						
			980'						
			970'						
			960'						
CRETACEOUS	ALBIAN	KUKPOWUK FORMATION	690'						3-10 Sandstone, f-med. grain, lt. tan, non-calc, trough cross-beds in sets up to 1'. Local shale pebble logs on scour surfaces.
			680'						150 covered
			670'						
			660'						
			650'						
			640'						
			630'						
			620'						
			610'						
			600'						
CRETACEOUS	ALBIAN	KUKPOWUK FORMATION	530'						9.0 Sandstone, lg, becoming med. g. at top, lt. gray, w/ pebbles, log @ base, med. g. iron stnd shale, blk chert, non-calcareous, lg-scale low-angle trough cross-beds, upper 0.5' trough cross-beds, 0.5 to 3.0' thick, locally heavily burrowed in top 3'. Vertical burrowing with size marks.
			520'						0.2 Sandstone, horizontal lamination - carbonaceous.
			510'						6.2 Sandstone, vf-fg, med. gray, non-calcareous, carbonaceous material on bedding & lam. 3m-scale trough cross-lam. in sets up to 0.5' thick; cross-lam. becomes more planar & low-angle at top.
			500'						
			490'						
			480'						
			470'						
			460'						
			450'						
			440'						
CRETACEOUS	ALBIAN	KUKPOWUK FORMATION	20'						18.0 Sandstone, lg, lt. brn-gray, med. calc, mod. carb. material on bedding planes, lg-scale trough cross-beds, low-angle in sets up to 2' thick, burrowing heavily locally in lower part, pebble logs and scattered pebbles (chert & shale), wood frag. locally.
			10'						
			0'						
CRETACEOUS	ALBIAN	KUKPOWUK FORMATION							2.5 Sandstone, lg, lt. brn, slightly calcareous, carbonaceous material on bed surfaces, thin bedded "paperly" horizontal lam. w/ 3m-scale trough cross-lam. at base w/ low angle trough cross-lam.

Attitude N56E 31°SE