

Table 1-2. Qualitative mineralogy (XRD) and sulfide morphology (optical microscopy) for samples from 01A core. Data from Tuttle (1991a, b).

[Morphology morph) key: A, anhedral; B, blades; E, euhedral; F, framboids; L, lens; S, iron-sulfide replacing oxide mineral grains; percent salt in Description is visually estimated]

Field ID	Depth (ft)	Depth (m)	Lithology	Rich/lean zone	Description	Photo of sample	Thin section	Quartz	Calcite	Dolomite	K-feldspar	Na-feldspar	Analcime	Dawsonite	Illite	UnID'd clay	Pyrite	Nahcolite	other	Pyrite morph	Marcasite morph	Pyrrhotite morph
01A-6	877.5	267.5	Uinta Fm.		oil shale	yes	unpolished	X	X	X		X	X						aragonite	A,F	A	
01A-8	894.5	272.6	A-groove		oil shale	yes	polished	X		X	X			X		X				A,F		
01A-12	934.5	284.8	Mahogany Zone		oil shale	yes	unpolished	X		X	X	X		X			X			A,E		
01A-14	953.5	290.6	Mahogany Zone		tuffaceous oil shale	yes	polished	X	X	X	X	X		X			X			A,F		E
01A-18	996.5	303.7	Mahogany Zone		oil shale	yes	unpolished	X	X	X	X	X					X			F		
01A-24	1054.5	321.4	Mahogany Zone		oil shale	yes	polished	X	X	X	X	X			X					A,E		
01A-26	1075.5	327.8	Mahogany Zone		oil shale	yes	polished	X	X	X	X	X				X				A		E
01A-30	1114.5	339.7	Parachute Creek	R-6	oil shale	yes	polished	X	X	X	X	X								A	E,A	A,E,B
01A-36	1174.5	358.0	Parachute Creek	R-6	oil shale	yes	unpolished	X	X	X	X	X			X					A,F		E
01A-42	1240.5	378.1	Parachute Creek	R-6	oil shale	yes	unpolished	X		X	X	X	X		X						E	E,B
01A-48	1294.5	394.6	Parachute Creek	R-6	marlstone	yes	unpolished	X		X	X	X	X			X	X			A		E
01A-54	1362.5	415.3	Parachute Creek	L-5	oil shale	yes	polished	X		X	X	X	X		X		X			A,E,S		A,E
01A-59	1409.5	429.6	Parachute Creek	R-5	oil shale	yes	polished	X		X	X	X	X	X	X		X	X		E,A,B	E,A,B,S	B
01A-62	1434.5	437.2	Parachute Creek	R-5	oil shale + nahcolite	yes	unpolished	X	X	X		X						X	halite	A		
01A-65	1470.5	448.2	Parachute Creek	R-5	oil shale	yes	polished	X		X	X	X		X		X	X	X		E,S		
01A-72	1534.5	467.7	Parachute Creek	R-5	oil shale + nacholite	yes	polished	X	X	X	X	X		X			X	X		S,F		S
01A-74	1554.5	473.8	Parachute Creek	R-5	pyritic oil shale	yes	unpolished	X	X	X	X	X		X		X	X	X		A,L		
01A-78	1594.5	486.0	Parachute Creek	R-5	oil shale	yes	unpolished	X		X	X	X		X		X	X			F		E,A
01A-84	1654.5	504.3	Parachute Creek	R-5	oil shale (40%) nacholite (20%) halite (20%)	yes	polished	X	X	X		X		X		X	X	X	halite	F		
01A-86	1674.5	510.4	Parachute Creek	R-5	oil shale (90%) nacholite (10%)	yes	polished	X		X	X	X		X		X	X	X	halite	S,F		
01A-89	1709.5	521.1	Parachute Creek	R-5	nacholite (80%) oil shale (20%)	yes	polished	X		X		X		X	X		X	X	halite	A		
01A-96	1774.5	540.9	Parachute Creek	L-4	oil shale	yes	polished	X		X	X	X		X		X	X			F,A		A,E
01A-98	1794.5	547.0	Parachute Creek	L-4	pyritic oil shale	yes	unpolished	X		X	X	X		X		X	X			A		B
01A-102	1834.5	559.2	Parachute Creek	R-4	oil shale	yes	polished	X		X	X	X		X		X	X			A,E		
01A-108	1894.5	577.4	Parachute Creek	R-4	oil shale	yes	none	X	X	X	X			X			X					
01A-110	1914.5	583.5	Parachute Creek	R-4	nacholite	yes	unpolished	X		X					X	X		X		A		
01A-113	1950.5	594.5	Parachute Creek	R-4	oil shale	yes	polished	X		X	X	X		X		X	X			F,A,E		
01A-120	2014.5	614.0	Parachute Creek	R-4	oil shale (50%) nahcolite (50%)	yes	polished	X		X	X	X		X	X			X		A,F,S,E,L		
01A-123	2051.5	625.3	Parachute Creek	L-3	oil shale	yes	none	X		X	X	X		X			X					
01A-126	2074.5	632.3	Parachute Creek	R-3	nahcolite	yes	unpolished	X							X	X		X		E		
01A-132	2134.5	650.6	Parachute Creek	R-3	oil shale (70%) nahcolite(30%)	yes	unpolished	X		X	X	X		X		X	X	X		S,A		
01A-134	2154.5	656.7	Parachute Creek	R-3	pyritic oil shale	yes	polished	X	X	X	X	X		X		X	X	X		S,A,E,F		A
01A-138	2194.5	668.9	Parachute Creek	R-3	oil shale	yes	unpolished	X		X	X	X		X		X	X			A		
01A-144	2254.5	687.2	Parachute Creek	R-2	nahcolite (60%) oil shale (40%)	yes	unpolished	X		X	X	X				X	X	X		E,A		
01A-150	2314.5	705.5	Parachute Creek	L-1	oil shale	yes	unpolished	X	X	X		X			X		X			A		
01A-154	2353.5	717.3	Parachute Creek	R-1	oil shale	yes	polished	X		X		X			X		X			E,F		
01A-155	2388.5	728.0	Parachute Creek	L-0	pyritic oil shale	yes	unpolished	X		X		X			X		X			A		
01A-162	2438.5	743.3	Parachute Creek	R-0	oil shale	yes	polished	X		X	X	X		X	X	X	X		apatite	F		
01A-165	2475.5	754.5	Garden Gulch		oil shale	yes	unpolished	X		X		X			X	X	X			F		A
01A-168	2494.5	760.3	Garden Gulch		oil shale	yes	unpolished	X	X	X					X		X			F		
01A-172	2534.5	772.5	Garden Gulch		oil shale	yes	polished	X		X		X			X		X			A,F		