



DESCRIPTION OF MAP UNITS

QUATERNARY DEPOSITS, UNCONSOLIDATED

ALLUVIAL DEPOSITS

COLLUVIAL DEPOSITS

LACUSTRINE DEPOSITS

GLACIAL DEPOSITS

SLIGHTLY METAMORPHOSSED MESOZOIC AND UPPER PALEOZOIC SEDIMENTARY ROCKS OF THE DOONERAAK FENSTER

CARBONIFEROUS AND UPPER TRIASSIC SEDIMENTARY ROCKS (unconformably on lower Paleozoic rocks)

UNMETAMORPHOSSED DEVONIAN SEDIMENTARY AND VOLCANIC ROCKS (Two regional metamorphic fabrics; lower to middle greenschist facies; grades and textures increase westward; mostly phyllite and limestone in north; phyllite, schist, and marble in south)

UPPER DEVONIAN HUNT FORK SHALE (carbonaceous, siliceous clastic rocks; grades downward into Rescoup Formation locally; locally unconformably overlies pre-Upper Devonian rocks)

MIDDLE AND LOWER UPPER DEVONIAN RESECOUP FORMATION (Carbonaceous, siliceous and calcareous sedimentary rocks and felsic volcanic rocks; grades downward and eastward into Skajit Limestone; laterally equivalent to Whiteface Mountain and Ambler volcanic and sedimentary rocks)

DEVONIAN SKAJIT LIMESTONE (Massive carbonate rocks; mainly Middle Devonian)

DEVONIAN—UNNAMED (Chlorite quartzite and conglomerate; grades into Dwg)

MIDDLE DEVONIAN (?) DEVONIAN—Chlorite quartzite sandstone, conglomerate, and siltstone, limestone, and green and gray phyllite

MIDDLE OR UPPER DEVONIAN ROCKS OF WHITEFACE MOUNTAINS (Metavolcanic and metasedimentary rocks stratigraphically and lithologically equivalent to parts of the Rescoup Formation and Ambler volcanic rocks; probably includes lower Paleozoic rocks locally)

MIDDLE TO UPPER DEVONIAN—Limestone; locally fossiliferous

MIDDLE TO UPPER DEVONIAN—Graywacke, quartzite and phyllite

MIDDLE TO LOWER DEVONIAN (?)—Black, carbonaceous phyllite and green phyllite and quartzite

MIDDLE TO UPPER DEVONIAN—Black, carbonaceous, chloritic phyllite with dolomite lenses

MIDDLE TO UPPER DEVONIAN—Calcareous and carbonaceous phyllite and siltstone, meta-limestone, tuff, and felsic intrusive rocks

METAMORPHOSSED DEVONIAN IGNEOUS AND CONTACT METAMORPHIC ROCKS (Igneous rocks and hornfelses related to the Ambler and Whiteface Mountain volcanic rocks and Devonian(?) plutons. Two regional metamorphic fabrics)

DEVONIAN—Felsic volcanic rocks including flows, tuffs, lahars, and hypabyssal intrusions

DEVONIAN—Basaltic intrusive complex

DEVONIAN—Biotite-garnet-felsic intrusives

DEVONIAN—Diabase, gabbro, and diorite dikes and sills

DEVONIAN—Calc-silicate hornfels at contacts of Devonian(?) intrusions

DEVONIAN—Siliceous hornfels at contacts of Devonian(?) intrusions

METAMORPHOSSED LOWER PALEOZOIC SEDIMENTARY AND VOLCANIC ROCKS OF DOONERAAK FENSTER AND SNOWDEN MOUNTAIN AREA (Two regional metamorphic fabrics; lower greenschist and greenschist-pumpellyite facies; unconformably overlain by Mississippian or Devonian rocks)

DEVONIAN (?) TO SILURIAN—Black phyllite and metasilicate, minor quartzite, meta-limestone, and red and green phyllite

UPPER ORDEVICIAN TO SILURIAN—Massive gray marble and orange dolomite with local replacement bodies of black chert; contains fossils

MIDDLE ORDEVICIAN—Black, carbonaceous phyllite and crinoidal metasilicate

MIDDLE ORDEVICIAN—Gray to black crinoidal marble; contains conodonts

DEVONIAN (?) TO ORDEVICIAN (?)—Gray, purple, and green laminated phyllite and inter-layered volcanic rocks

DEVONIAN (?) TO ORDEVICIAN (?)—Polyclitic conglomerate, clasts of intermediate volcanic rocks

DEVONIAN (?) TO ORDEVICIAN (?)—Calcareous shale-chip sandstone and siltstone and chloritic calcareous phyllite

DEVONIAN (?)—Chlorite quartz schist, dolomitic phyllite, and marble

LOWER MIDDLE CAMBRIAN—Bandy marble; contains fossils

CAMBRIAN (?)—Metacarbonate-chlorite quartz schist

PROTOZOIC (?) TO PALEOZOIC (?) UNNAMED SCHIST, PANORAMA, AND ONTONGNESS (Regionally metamorphosed thrust(?) times; high greenschist facies rocks predominate, but includes amphibolite facies paragneiss, and local relict blueschist- and eclogite-facies metabasites)

Papaya Paleozoic(?) to Proterozoic(?)—Quartzite with 1 to 10 cm-thick lenses of graphitic schist (shown only on cross section in subsurface)

Table 1. Fossil collection localities from the Chandalar C-6 and P-4 Quadrangles.

Map No.	Field no. (USGS coll. no.)	Locality	Age	Identified by	Remarks
1	82A281a	Dbl	Silurian-Devonian	J.T. Dutton, Jr.	Dark-gray to black, recrystallized limestone
2	82B247a	Dbl	Devonian (pre-Framman)	W.A. Oliver, Jr.	Stratopora; Amphirota; ...
3	82B253	Df	Devonian (possibly late Middle or early Late)	J.T. Dutton, Jr.	No conodonts recovered
4	82B261a	Dbl	No conodonts recovered	A.G. Harris	
5	82B267	Df	Devonian (Givetian-early Framman)	A.G. Harris	GA-5 to 5.5; all specimens are deformed and incomplete. Shallow-water bioherms
6	82B290	Dbs	Devonian (very latest Givetian-very earliest Framman)	A.G. Harris	GA-5 to 5.5; all specimens are deformed and incomplete. Shallow-water bioherms
7	82B292a & b (1234-29 & 1234-30)	Dfcp	Devonian (Middle-Late)	A.G. Harris	GA-5; most specimens are deformed and incomplete. Shallow-water bioherms
8	7-30-840 (1992-03)	Om	Ordevician (late Early-Middle)	A.G. Harris	GA-5; specimens corroded and deformed
9	7-30-842	Ogpe	Ordevician (Middle); latest Middle to early Late	A.G. Harris	GA-5; Cool-water bioherms
10	7-30-846	Om	No conodonts recovered	A.G. Harris	
11	59A252a	Dbl	Silurian or Devonian	W.A. Oliver, Jr.	Reported in Brought and Reiser (1964)
12	81 Ad 313	Dbl	Large recrystallized tubes	J.T. Dutton, Jr.	Dark-gray calc-schist
13	59A252b	Dbl	Rugose corals	W.A. Oliver, Jr.	Reported in Brought and Reiser (1964)
14	7-27-847 (1992-03)	Om	1 deformed coniform element	A.G. Harris	(Probably late Early-Middle Middle)
15	7-27-847 & 82B292b (1992-03)	Ogpe	Tabulate corals	A.G. Harris	60 m below top of Ope. Normal marine bioherms
16	7-27-848 (1992-03)	Ogpe	Tabulate corals	A.G. Harris	45 m below top of Ope. Cool, but not conodont water bioherms
17	7-27-849 (1992-03)	Ogpe	Tabulate corals	A.G. Harris	25 m below top of Ope. Cool-water bioherms
18	7-27-849 (1992-03)	Ogpe	Tabulate corals	A.G. Harris	1.5 m below top of Ope. Cool-water bioherms
19	7-27-849 (1992-03)	Ogpe	Tabulate corals	A.G. Harris	40 m above Ope; fine-grained, massive metasilicate
20	7-27-849 (1992-03)	Ogpe	No conodonts recovered	A.G. Harris	35 m above Ope; top of limestone unit
21	7-27-849 (1992-03)	Ogpe	No conodonts recovered	A.G. Harris	Laminated, recrystallized marble
22	7-27-849 (1992-03)	Ogpe	No conodonts recovered	A.G. Harris	Laminated metasilicate
23	82B292c	Dbl	Conodonts: 2 elements of Framman	A.G. Harris	Black, crinoidal marble; CAI = 5
24	82B292d	Dbl	Conodonts: 1 element of Framman	A.G. Harris	Marble layers in schist. Specimen stretched and corroded. CAI = 5
25	7-30-848 (1992-03)	Ogpe	Conodonts: 1 element of Framman	A.G. Harris	Ordevician (Middle); latest Middle to early Late
26	82B292e	Dbl	Conodonts: 1 element of Framman	A.G. Harris	Normal marine, relatively cool-water bioherms
27	7-30-848 (1992-03)	Ogpe	No conodonts recovered	A.G. Harris	Galitic dolomite to dolomitic fine-grained metasilicate
28	82B292f	Dbl	No conodonts recovered	A.G. Harris	
29	82B292g	Dbl	No conodonts recovered	A.G. Harris	
30	82B292h	Dbl	No conodonts recovered	A.G. Harris	
31	82B292i	Dbl	No conodonts recovered	A.G. Harris	
32	82B292j	Dbl	No conodonts recovered	A.G. Harris	
33	82B292k	Dbl	No conodonts recovered	A.G. Harris	
34	82B292l	Dbl	No conodonts recovered	A.G. Harris	
35	82B292m	Dbl	No conodonts recovered	A.G. Harris	
36	82B292n	Dbl	No conodonts recovered	A.G. Harris	
37	82B292o	Dbl	No conodonts recovered	A.G. Harris	
38	82B292p	Dbl	No conodonts recovered	A.G. Harris	
39	82B292q	Dbl	No conodonts recovered	A.G. Harris	
40	82B292r	Dbl	No conodonts recovered	A.G. Harris	
41	82B292s	Dbl	No conodonts recovered	A.G. Harris	
42	82B292t	Dbl	No conodonts recovered	A.G. Harris	
43	82B292u	Dbl	No conodonts recovered	A.G. Harris	
44	82B292v	Dbl	No conodonts recovered	A.G. Harris	
45	82B292w	Dbl	No conodonts recovered	A.G. Harris	
46	82B292x	Dbl	No conodonts recovered	A.G. Harris	
47	82B292y	Dbl	No conodonts recovered	A.G. Harris	
48	82B292z	Dbl	No conodonts recovered	A.G. Harris	
49	82B293a	Dbl	No conodonts recovered	A.G. Harris	
50	82B293b	Dbl	No conodonts recovered	A.G. Harris	
51	82B293c	Dbl	No conodonts recovered	A.G. Harris	
52	82B293d	Dbl	No conodonts recovered	A.G. Harris	
53	82B293e	Dbl	No conodonts recovered	A.G. Harris	
54	82B293f	Dbl	No conodonts recovered	A.G. Harris	
55	82B293g	Dbl	No conodonts recovered	A.G. Harris	
56	82B293h	Dbl	No conodonts recovered	A.G. Harris	
57	82B293i	Dbl	No conodonts recovered	A.G. Harris	
58	82B293j	Dbl	No conodonts recovered	A.G. Harris	
59	82B293k	Dbl	No conodonts recovered	A.G. Harris	
60	82B293l	Dbl	No conodonts recovered	A.G. Harris	
61	82B293m	Dbl	No conodonts recovered	A.G. Harris	
62	82B293n	Dbl	No conodonts recovered	A.G. Harris	
63	82B293o	Dbl	No conodonts recovered	A.G. Harris	
64	82B293p	Dbl	No conodonts recovered	A.G. Harris	
65	82B293q	Dbl	No conodonts recovered	A.G. Harris	
66	82B293r	Dbl	No conodonts recovered	A.G. Harris	
67	82B293s	Dbl	No conodonts recovered	A.G. Harris	
68	82B293t	Dbl	No conodonts recovered	A.G. Harris	

