

FOSSIL LOCALITY MAP AND FOSSIL DATA FOR THE
SOUTHEASTERN PART OF THE CHARLEY RIVER QUADRANGLE, EAST-CENTRAL ALASKA

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INTRODUCTION

This table and location map are compiled from fossil information collected within the Charley River A-1, A-2, A-3, B-1, B-2, B-3, C-1, and C-2 1:63,360-scale quadrangles. Sources of information for the compilation are mainly published reports of the U.S. Geological Survey, as well as unpublished fieldnotes, maps, and fossil reports of USGS workers conducting geologic studies in the area.

The fossil data in the table are listed chronologically, by collector, according to when the fossils were collected. This information includes, where available, map number, geologic map unit, collector's field number, USGS collection number, fossil list, and fossil age designation. Sources of information and names of paleontologists who identified fossils are keyed with superscripts and cited at the end of the table. Reports for most of the collections that have been assigned a USGS collection number are on file at the U.S. National Museum of Natural History in Washington, D.C. The fossil lists are reproduced as originally prepared by the paleontologists indicated. However, many of the older collections have been restudied by later workers, and because of improved taxonomic and stratigraphic frameworks, restudy has resulted in revised identification, correlation, and/or age designation for many collections. Consequently, care should be taken in using the appraisals of early workers and most attention should be given to the more current reports and publications.

The fossil location map is reproduced on a screened geologic base at a scale of 1:100,000. The geology and map units are from Dover (in press) which contains a brief description of stratigraphic units. The locations of fossils collected prior to 1931 (map numbers 1-87) are only approximate due to the lack of precise location information.

Although much effort went into making the fossil table and location map as complete as possible, some existing data were not available for inclusion, and some data may have been omitted inadvertently.

ACKNOWLEDGMENTS

I am indebted to Ellen White and Sue Booth of the U.S. Geological Survey's Technical Data Unit in Menlo Park for their invaluable assistance in recovering archival information, and to J.T. Dutro, Jr. for his editorial review which led to many important additions and improvements.

REFERENCE CITED

Dover, James H., in press, Geologic map and fold-and-thrust-belt interpretation of the southeastern part of the Charley River quadrangle, east-central Alaska: U.S. Geological Survey Miscellaneous Investigations Map I-1942, scale 1:100,000.

Fossil data for the Charley River A-1, A-2, A-3, B-1, B-2, B-3, C-1,
and C-2 1:63,360-scale quadrangles, Alaska
[Footnotes at end of table]

Map number- map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
Collection of J.E. Spurr ²					
1 Pt	A-2 (A)		2444-PC	Amplexus? cf. A. zaphrentiformis Productus longispinus Productus longispinus? Productus multistriatus Productus semireticulatus var. Productus cf. P. undatus Pustula punctata var. Spirifer cf. S. scobinus Aviculipecten sp.	Permian ^{22,23}
Collections of A.J. Collier					
2 Dnr	A-2 (B)		2443-PC ²	Globigerina? sp. Chonetes cf. C. laevis Productus cf. P. cora var. Productus cf. P. multistriatus Productus semireticulatus var. Productus cf. P. semireticulatus Productus cf. P. undatus Pustula cf. P. humboldti Marginifera sp. Camarophoria cf. C. pinguis Rhynchopora cf. R. nikitini Spirifer cf. S. striatus Spiriferella arctica Reticularia cf. R. lineata Streblopteria sp.	Permian ²²
3 Pt	A-2 (A)		2445-PC ²	Productus cf. P. multistriatus Productus cf. P. semireticulatus Spiriferella arctica	Permian ²²
4 KJgu?	B-3 (A)		2674-Mes.	Aucella crassicolis Keyserling ²	Early Cretaceous ²⁴
				Buchia okensis ¹⁰	Early Cretaceous- (Berriasian) ²⁵
5 PMcb?	A-1 (A)		2970-PC ²	Lepidodendron? sp.	Mississippian? or Late Devonian ²⁶
6 TKs?	A-2 (A)		2971-Mes. ²	Plant fragments	Late Cretaceous ²⁶
Collections of A. Hollick ²					
7 Dnr	A-2 (B)		2441-PC	Zaphrentis sp. Stenopora sp. Streptorhynchus cf. S. pelargonatus Chonetes cf. C. morahensis Productus cf. P. koninckianus Productus cf. P. mammatus Productus sp. Pustula cf. P. horrida Pustula cf. P. irginae Avonia cf. A. porrecta? Marginifera cf. M. aargardi Marginifera cf. M. splendens Rhynchopora cf. R. nikitini Spirifer cf. S. marcoui Spiriferella arctica Squamularia cf. S. perplexa Cleiothyridina sp. Schizodus sp. Aviculipecten sp. Omphalotrochus sp.	Permian ²³
8 Dnr	A-2 (B)	3AH7		Spirophyton sp.	Pennsylvanian? ²⁶

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
Collection of A.H. Brooks ²					
9 Dnr	A-2 (B)		2446-PC	Zaphrentis sp. Stenopora sp. Streptorhynchus cf. S. pelargonatus Chonetes cf. C. morahensis Productus cf. P. koninckianus Productus cf. P. mammatus Productus sp. Pustula cf. P. horrida Pustula cf. P. irginae Avonia cf. A. porrecta? Marginifera cf. M. aargardi Marginifera cf. M. splendens Rhynchopora cf. R. nikitini Spirifer cf. S. marcoui Spiriferella arctica Squamularia cf. S. perplexa Cleiothyridina sp. Schizodus sp. Aviculipecten sp. Omphalotrochus sp.	Permian ²³
Collections of G.L. Harrington ²					
10 Dm	A-1 (A)	738		Fenestella sp. Eatonia? sp. Pugnax sp. Atrypa reticularis Martinia cf. M. maia	Middle Devonian ²⁷
11 Dm	A-1 (A)	740		Fenestella	Middle Devonian ²⁷
12 Dm	A-1 (A)	741		Chonetes sp.	Middle Devonian ²⁷
13 Dm?	A-1 (A)	742		Stropheodonta sp., found in float	Middle Devonian ²⁷
Collections of D.D. Cairnes ² (Canadian Geological Survey)					
14 Ps	C-1 (B)	XVI k 10		Fenestella sp. Pinnatopora (Acanthocladia) sp. Cystodictya sp. Hustedia cf. H. indica Zaphrentis sp. Productus cf. P. tenuistriatus Productus cf. P. inflatus Myalina cf. M. keokuk	Carboniferous ²³
15 KJgu?	C-1 (A)	XVI k 15		Chonetes cf. C. variolatus Productus cf. P. aagardi Rhynchopora cf. R. nikitini Spiriferina sp. Aviculipecten? sp.	Permian ²³
16 Ps	C-1 (B)	XVI l 9		Fenestella sp. Chonetes sp. Marginifera? cf. M. involuta Reticularia cf. R. lineata Spirifer cf. S. nikitini Spirifer sp. Aviculipecten sp. Aviculipecten? sp.	Carboniferous ²³
17 Dnr	B-1 (A)	XVII j 15		Productella? sp. Atrypa n. sp.? Martinia cf. M. maia Billings Stropheodonta sp. Proetus cf. P. macrocephalus Hall	Devonian ²⁸
18 Dnr?	B-1 (A)	XVII j 16, j 17		Atrypa reticularis (Linnaeus) Atrypa spinosa (Hall) Schizophoria striatula (Schlotheim) Reticularia? cf. R. subundifera (Meek and Worthen)	Middle Devonian ²⁸

Map number- map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
D.D. Cairnes (cont) ²					
18 (cont)				Reticularia sp. Athyris? n. sp.	
19 Do	B-1 (A)	XVII j,k 16		Zaphrentis sp. Favosites sp. Stropheodonta sp. Atrypa reticularis (Linnaeus) Schizophoria striatula (Schlotheim) Gypidula sp.	Middle Devonian ²⁸
20 Do	B-1 (A)	XVII p 4,5		Favosites sp. Camarotoechia sp. Pugnax cf. P. pugnus (Martin) Atrypa reticularis (Linnaeus) var. Leptaena rhomboidalis (Wilckens) Schizophoria striatula (Schlotheim) Reticularia sp. Anoplothea cf. A. acutiplicata (Conrad) Platyceras sp. Cytherella sp. Cyphaspis cf. C. bellula Cyathophyllum cf. C. quadrigeminum Goldfuss Hercinella? sp	Middle Devonian ²⁸
21 Pt?	B-1 (A)	XVII n 34		Chonetes cf. C. ostiolatus Productus cf. P. aagardi Productus n. sp. Rhynchopora cf. R. nikitini	Permian ²³
22 O€jr	A-1 (A)	XIX j 9		Obolus sp. Lingulella sp. Acrothele cf. A. coriacea Linnarsson Acrotreta, 2 sp. Agnostus, 2 sp. Ptychoparia sp. Anomocare sp. Liostracus sp. Levisia sp.	Middle Cambrian ²⁹
23 O€jr	A-1 (A)	XIX j 17, 18		Obolus (Westonia) cf. O. stoneanus (Whitfield) Lingulella sp. Acrothele cf. A. coriacea Linnarsson Schizambon cf. S. typicalis Walcott Undetermined trilobite	Middle Cambrian ²⁹
24 Do	A-1 (A)	XIX j 23,22		Atrypa reticularis (Linnaeus) Stropheodonta sp. Schizophoria striatula (Schlotheim) Cryphaeus? sp.	Middle Devonian ²⁸
25 O€jr	A-1 (A)	XIX j 31		Foraminifera? undetermined Obolus, 2 sp. Obolus (Westonia) cf. O. stoneanus (Whitfield) Lingulella, 2 sp. Dicellomus? sp. Curticia? sp. Acrothele cf. A. coriacea Linnarsson Acrotreta sp. Orthoid Coral? Ostracode Agnostus sp. Eurycare? sp. Three unidentified trilobites	Middle Cambrian ²⁸
26 O€jr	A-1 (A)	XIX j 32		Micromitra (Iphidella) pannula (White)? Obolus 2 sp. Obolus? sp. Acrothele cf. A. coriacea Linnarsson Acrotreta, 2 sp. Ostracode Illaenus? sp.	Middle Cambrian ²⁹

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
D.D. Cairnes (cont) ²					
27 DOr	A-1 (A)	XIX m 6		Cladopora sp. Favosites sp. Zaphrentis sp. Camarotoechia? cf. C. acinus Hall Camarotoechia? cf. C. indianensis (Hall) Atrypa sp. Atrypina sp. Nucleospira cf. N. pisiformis Hall Trematospira cf. T. camura Hall Sieberella n. sp. Mytilarca? cf. M. sigilla Hall Platyceras sp. Orthoceras sp. Dalmanites sp.	Middle Silurian ²⁸
28 Do	A-1 (A)	XIX p 10		Cyathophyllum? sp. Atrypa reticularis Leptaena rhomboidalis (Wilckens) Spirifer sp.	Middle Devonian ²⁸
29 OEr	A-1 (A)	XIX p 20		Obolus 2 sp. Lingula sp. Acrotreta 2 sp. Asaphus? sp.	Cambrian ²⁹
			GSC-273	Re-examination of collection (Canadian Geological Survey collection number)	Early Ordovician ³⁰
30 Do	A-1 (A)	XIX q 23		Fenestella sp. Atrypa reticularis (Linnaeus) Atrypa cf. A. flabellata Goldfuss Stropheodonta cf. S. arcuata Hall Conocardium cf. C. cuneus Conrad	Middle Devonian ²⁸
31 DOr?	A-1 (A)	XIX s 28		Pholidops cf. P. squamiformis Hall Atrypa sp. Atrypa cf. A. marginalis Dalman Orthis flabellites foerste Dalmanella cf. D. elegantula (Dalman) Whitfieldella cf. W. nitida Hall Anoplothea sp. Illaenus cf. I. armatus Hall	Middle Silurian ²⁸
32 DOr	A-1 (A)	XIX t 27		Whitfieldella sp. Atrypa reticularis Linn	Late Silurian ²⁸
Collections of E.M. Kindle ² (Canadian Geological Survey collection numbers)					
33 TKs	A-3 (A)	20		Plant fossils	Late Cretaceous ²⁸
34 Kb	B-3 (A)		GSC-3783	Pinna sp. Inoceramus sp. Aucella? sp. Pecten sp. Perisphinctes? sp.	Early Cretaceous ²⁴
				Inoceramus sp. Pinna sp. Polyptychites sp.	Early Cretaceous (Valanginian) ²⁵
35 Kb	B-3 (A)	19	GSC-3785	Aucella crassicolis Keyserling	Early Cretaceous ³⁴
				Buchia "sublaevis"	Early Cretaceous (Valanginian) ²⁵
36 Rgl	A-2 (A)		GSC-4054	Camarophoria? cf. C. crumena Pugnax cf. P. osagensis Pugnax sp. Dielasma? cf. D. bovidens (Tschernyschew) Martinia? sp. Spiriferina cf. S. lamiosa Spiriferina cf. S. simensis Nucula sp. Halobia cf. H. superba	Late Triassic ²⁴

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
E.M. Kindle (cont) ²					
36 (cont)				Aviculipecten cf. A. parvulus Aviculipecten? sp. Plagioglypta? sp. Pleurotomaria sp. Ostracoda	
Collections of L.D. Burling ² (Canadian Geological Survey collection numbers)					
37 O€jr	A-1 (A)		GSC-4689	Symphysurina sp. Eoorthis sp.	Early Ordovician ³¹
38 O€jr	A-1 (A)		GSC-4730, 4731,4733	Eoorthis sp. Westonia sp. Acrothele sp. Parabolus sp. Trilobites of several genera and species	Late Cambrian ³¹
			GSC-4732 ³	Yukonaspis kindlei Kobayashi Undet. eureka Also contains fossils listed above for GSC-4730,4731,4733	Late Cambrian ^{30,31}
39 O€jr	A-1 (A)		GSC-4734	Same fossils as listed above for GSC-4730,4731,4733	Late Cambrian ^{30,31}
Collections of G.C. Martin ²					
40 Pt	A-2 (A)	82		Zaphrentis sp. Avonia cf. A. porrecta Spiriferella arctica	Permian ²³
41 Pt	A-2 (A)	83		Zaphrentis sp. Lingulidoscina cf. L. utahensis Productus cf. P. cora Productus cf. P. gruenewaldti	Permian ²³
42 Rgl	A-2 (A)	84	8895-Mes.	Rhynchonella sp. Rhynchonella? sp. Terebratula sp. Spiriferina sp. Halobia sp. Aviculipecten sp. Natica? sp. Nautilus sp. Ammonite of undetermined genus	Late Triassic ²⁴
		85	8896-Mes.	Halobia cf. H. superba	Late Triassic ²⁴
		86	8897-Mes.	Halobia cf. H. superba	Late Triassic ²⁴
		87	8898-Mes.	Halobia cf. H. superba Clionites? sp.	Late Triassic ²⁴
		88	8899-Mes.	Pseudomonotis subcircularis	Late Triassic ²⁴
43 Dnr	A-2 (A)	89		Plant specimens not identified	
44 TKs	A-2 (A)		10266-Mes., 10267-Mes.	Pseudomonotis sp. Halobia cf. H. superba	Late Triassic ²⁴
Collections of E. Blackwelder ²					
45 Rgl	A-2 (A)	1507/B1	9382-Mes.	Rhynchonella? sp. Terebratula sp. Pseudomonotis subcircularis	Late Triassic ²⁴
		1507/E	9383-Mes.	Halobia cf. H. superba	Late Triassic ²⁴

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
E. Blackwelder (cont) ²					
45 (cont)		1507/H	9384-Mes.	Rhynchonella sp. Spiriferina sp. Halobia? sp. Aviculipecten? sp. Pecten sp. Pleurophorus? sp. Orthoceras sp. Nautilus sp. Monophyllites? sp.	Late Triassic ²⁴
46 Dnr	A-2 (A)	1507/X		Indet. vegetal matter	Indeterminate ²⁶
47 Dnr	A-2 (A)	1507/63		Bothrodendroid? group	Early Mississippian or Late Devonian ²⁶
48 Rgl	A-2 (A)	1508/B	9385-Mes.	Rhynchonella sp. Spiriferina sp. Aviculipecten sp. Aviculipecten? sp. Orthoceras sp. Nautilus sp. Placites? sp. Popanoceras (Parapopanoceras?) sp. Trachyceras (Protrachyceras?) cf. T. (P.) leonti	Late Triassic ²⁴
		1508/C	9387-Mes.	Pleurotomaria? sp. Clionites? sp. Bone fragment	Late Triassic ²⁴
		1508/D	9388-Mes.	Halobia cf. H. superba	Late Triassic ²⁴
49 KJgu?	B-3 (A)	1509	9389-Mes.	Inoceramus	Early Cretaceous ²⁴
50 Dnr	A-2 (B)	1799		Productus sp. Rhynchopora cf. R. nikitini Dielasma? sp. Spiriferella arctica Martinia sp. Straparollus? sp.	Permian ²³
		1799/A		Productus cf. P. cora Rhynchopora cf. R. nikitini	Permian ²³
		1799/B		Rhynchopora cf. R. nikitini	Permian ²³
51 Pt	A-2 (A)	1800		Productus cf. P. gruenewaltdi Productus sp. Marginifera cf. M. aargardi Deltopecten sp.	Permian ²³
		1800/A		Productus sp. Pustula cf. P. horrida Marginifera? sp. Spiriferella? sp.	Permian ²³
		1800/B		Batostomella sp. Stenopora sp. Streptorhynchus? sp. Productus cf. P. mammatus Rhynchopora cf. R. nikitini Spirifer cf. S. marcovi Spiriferella arctica? Composita subtilita?	Permian ²³
52 Kb	B-3 (A)			Chondrites heerii Eichwald	Early Cretaceous?
Collection of P.J. Hilliard ²					
53 TKs	A-2 (A)		9321-Mes.	Pseudomonotis? sp.	Late Triassic ²⁴

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
Collections of G. Girty ²					
54 Pt	A-2 (A)		2437-PC	Batostomella sp. Lingula sp. Chonetes sp. Productus cf. P. mammatum Marginifera cf. M. aargardi Rhynchopora cf. R. nikitini Squamularia cf. S. perplexa Aviculipecten sp. Pleurotomaria sp.	Permian ²³
			2437a-PC	Lingula sp. Chonetes cf. C. morahensis Productus cf. P. koninckianus Productus cf. P. mammatum Pustula cf. P. irginae Marginifera cf. M. aargardi Rhynchopora cf. R. nikitini Squamularia cf. S. perplexa Streblopteria sp.	Permian ²³
			2437b-PC	Lingulidiscina sp. Chonetes cf. C. morahensis Marginifera cf. M. aargardi Rhynchopora cf. R. nikitini	Permian ²³
			2438-PC	Lophophyllum sp. Meekella? sp. Chonetes sp. Productus cf. P. cora Productus cf. P. koninckianus Productus cf. P. koninckianus var. Productus cf. P. longus Productus cf. P. mammatum Productus sp. Pustula cf. P. irginae Marginifera cf. M. aargardi Spiriferella? arctica Squamularia cf. S. perplexa Martinia sp. Deltopecten cf. D. occidentalis Pleurotomaria sp. Schizostoma sp.	Permian ²³
			2439-PC	Amplexus sp. Streptorhynchus cf. S. pelargonatus Chonetes cf. C. morahensis Productus cf. P. cora Productus cf. P. koninckianus var. Productus cf. P. longus Productus cf. P. mammatum Pustula cf. P. irginae Avonia cf. A. porrecta Marginifera cf. M. aargardi Marginifera typica var. septentrionalis? Camarophoria cf. C. margaritovi Rhynchopora cf. R. nikitini Spiriferella arctica var. Squamularia cf. S. perplexa Martinia? sp. Spiriferina sp. Edmondia? sp. Pleurotomaria? sp. Schizostoma sp.	Permian ²³
			2440-PC	Productus cf. P. cora (of Tschernyschew) Productus cf. P. koninckianus var. Productus cf. P. longus Productus cf. P. mammatum Pustula cf. P. irginae Marginifera cf. M. aargardi Camarophoria cf. C. margaritovi Rhynchopora cf. R. nikitini Squamularia cf. S. perplexa Bardia sp.	Permian ²³
			2440a-PC	Chonetes cf. C. morahensis Pustula cf. P. horrida Marginifera cf. M. aargardi	Permian ²³

Map number- map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
G. Girty (cont) ²					
54 (cont)				Rhynchopora cf. R. nikitini Squamularia? sp.	
			2442-PC	Triplophyllum? sp. Batostomella sp. Phyllopora? sp. Derbya sp. Streptorhynchus cf. S. pelargonatus Chonetes cf. C. geinitzianus Productus cf. P. cora (of Tschernyschew) Productus cf. P. koninckianus Productus cf. P. longus Productus cf. P. mammatus Productus sp. Pustula cf. P. horrida Pustula cf. P. irginae Pustula sp. Avonia cf. A. porrecta Marginifera cf. M. aargardi Marginifera typica var. septentrionalis? Aulosteges sp. Rhynchopora cf. R. nikitini Spirifer cf. S. marcoui Spiriferella? arctica Squamularia cf. S. perplexa Martinia? sp. Spiriferina sp. Cleiothyridina sp. Edmondia? sp. Solenomya? sp. Pseudomonotis? sp. Schizodus sp. Aviculipecten sp. Pleurotomaria? sp. Schizostoma sp.	Permian ²³
			2442a-PC	Chonetes cf. C. morahensis Productus cf. P. koninckianus Pustula cf. P. irginae Rhynchopora cf. R. nikitini Streblopteria? sp.	Permian ²³
			2442b-PC	Lingulidiscina sp. Chonetes cf. C. morahensis Productus cf. P. koninckianus Productus cf. P. mammatus Pustula cf. P. irginae Marginifera cf. M. aargardi Rhynchopora cf. R. nikitini Squamularia sp. Streblopteria sp. Pleurotomaria sp.	Permian ²³
			2442c-PC	Chonetes cf. C. morahensis Marginifera cf. M. aargardi	Permian ²³
			2442d-PC	Productus cf. P. cora var. Productus cf. P. longus Productus cf. P. mammatus Pustula cf. P. irginae Marginifera typica var. septentrionalis? Spiriferella? arctica var. Squamularia cf. S. perplexa	Permian ²³
			2549-PC	Lophophyllum? sp. Batostomella sp. Crania sp. Streptorhynchus cf. S. pelargonatus Chonetes cf. C. geinitzianus Chonetes cf. C. morahensis Productus cf. P. cora Productus cf. P. koninckianus Productus cf. P. longus Pustula cf. P. horrida Pustula cf. P. irginae Pustula sp. Marginifera cf. M. aargardi Marginifera typica var. septentrionalis	Permian ²³

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
G. Girty (cont) ²					
54 (cont)				Aulosteges sp. Camarophoria cf. C. margaritovi Rhynchopora cf. R. nikitini Spirifer cf. S. fasciger Spirifer sp. Spiriferella? arctica Squamularia cf. S. perplexa Cleiothyridina sp. Aviculipecten sp. Streblopteria? sp. Schizostoma sp.	
Collections of J.B. Mertie ²					
55 MDf	A-1 (A)	30 Amt 3	6840-PC	Triplophyllum sp. Batostomella sp. Fenestella sp. Rhombopora sp. Cystodictya cf. C. pustulosa Productus cf. P. inflatus Productus sp. Pustula n. sp. Pustula? sp. Camarophoria sp. Pugnoides? sp. Spirifer cf. S. logani Brachythyris cf. B. subcardiiformis Leda sp. Caneyella? sp. Pleurotomaria sp. Pleurotomaria? sp. Euomphalus sp. Naticopsis sp.	Late Mississippian ²³
56 MDf	A-1 (A)	30 Amt 4	6841-PC	Productus cf. P. ovatus var. latior Pustula cf. P. subsulcata Leiorhynchus carboniferum Canayella cf. C. wapanuckensis Aviculipecten cf. A. rectilaterarius Gastrioceras? sp.	Late Mississippian ²³
			6841-PC ⁴	Goniatites crenistria Phillips cf. G. granosus Portlock Girtyoceras? spp.	Late Mississippian ³⁶
57 MDf	A-1 (A)	30 Amt 12	6842-PC	Leiorhynchus carboniferum var. polypleurum	Late Mississippian ²³
				Astercalamites	Mississippian ²³
58 PMcb	A-1 (A)	30 Amt 28	6843-PC	Leiorhynchus carboniferum var. polypleurum Caneyella cf. C. nasuta Caneyella cf. C. wapanuckensis	Late Mississippian ²³
Pt		30 Amt 29	6843A-PC	Productus cf. P. cancriniformis Productus cf. P. aargardi Pustula cf. P. punctata Pustula sp. Spiriferella arctica var. Martinia? sp. Cleiothyridina cf. C. incrassata Pleurotomaria? sp. Bulimorpha? sp.	Permian ²³
59 Pt	A-1 (A)	30 Amt 30	6843B-PC	Chonetes cf. C. ostiolatus var. impressus Productus cf. P. phosphaticus var. Pustula cf. P. humboldti Pustula sp. Rhynchopora cf. R. nikitini Spiriferella arctica var. Spiriferella cf. S. saranae Squamularia cf. S. perplexa Aviculipecten sp. Ostracoda	Permian ²³

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
J.B. Mertie (cont) ²					
60 OCh	A-1 (A)	30 AMt 47	Kirk no. 2535?-SD	Archaeocyathus sp.	Middle Cambrian ²⁷
61 OCh?	A-1 (A)	30 AMt 136		Archaeocyathus sp.	Middle Cambrian ²⁷
62 Dm	A-1 (A)	30 AMt 137		Acervularia sp. Favosites sp. Heliolites sp. Atrypa reticularis Linnaeus Rhipidomella sp. Camarotoechia sp. Spirifer sp. Pentamerella sp. Naticopsis sp. Cyclonema sp. Conocardium sp.	Middle Devonian ²⁷
63 Dm	A-1 (A)	30 AMt 138		Atrypa reticularis Linnaeus Atrypa n. sp. Camarotoechia 2 sp. Platyceras 2 sp. Large crinoid columnals, seven-eighths of an inch in diameter	Middle Devonian ²⁷
64 Do	A-1 (A)	30 AMt 141		Atrypa reticularis Linnaeus Atrypa n. sp. Stropheodonta sp. Camarotoechia sp. Reticularia sp. Cyrtina sp. Fragment of fish spine	Middle Devonian ²⁷
65 OCh	A-1 (A)	30 AMt 145	2536-SD	Dalmanella sp. Syntrophia sp.	Early Ordovician ²⁷
			2536-SD ⁵	Mixed fauna	Early and Middle or Late Ordovician ³²
				Streptelasma sp. Halysites sp. Strophomena sp. Dinorthis sp. Dalmanella sp. Leptelloides sp. Zygospira sp. Christiania sp. Catazyga sp. Platystrophia sp. Lingula sp. Rhynchotrema sp. Sowerbyella sp. Illaenus sp. Bumastus sp. Eoharpes sp.	Middle Ordovician ²⁷
66 OCh	A-1 (A)	30 AMt 146		Elkania hamburgensis (Walcott) Obolus tetonensis Walcott Obolus (Westonia) linguloides Acrothele? burlingi Acrotreta cf. A. sagittalis (Salter)	Late Cambrian ³³
67 OCh	A-1 (A)	30 AMt 147		Obolus tetonensis Walcott Acrothele? burlingi Eoorthis? sp. Hyolites sp. Pseudagnostus (Plethagnostus) clarki Chuangiella intermedia Tatonspis alaskensis Briscoia mertiei Briscoia robusta Briscoia septentrionalis Parabriscoia elegans Parabriscoia stenorachis Parabriscoia? tripunctata Hungaia? pacifica	Late Cambrian ³³
				Archaeocyathus sp.	Middle Cambrian ²⁷

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
J.B. Mertie (cont) ²					
68 Pt	B-1 (A)	30 Amt 200	6844-PC	Leioclema? sp. Rhipidomella? sp. Chonetes cf. C. ostiolatus Chonetes cf. C. ostiolatus var. impressus Productus cf. P. aargardi Productus cf. P. geniculatus Productus cf. P. phosphaticus Productus cf. P. phosphaticus var. Pustula cf. P. humboldti Pustula cf. P. humboldti var. Rhynchopora cf. R. nikitini Squamularia cf. S. perplexa Aviculipecten sp. Streblopteria sp. Paraparchites? sp.	Permian ²³
69 Dnr	A-1 (A)	30 Amt 208		Ropey structures	
70 Pt	A-2 (A)		427-PC	Stenopora? sp. Streptorhynchus? sp. Chonetes cf. C. morahensis Pustula cf. P. horrida Pustula cf. P. wallaciana Marginifera cf. M. aargardi Rhynchopora cf. R. nikitini Dielasma cf. D. elongata Squamularia cf. S. perplexa	Permian ²³
71 Pt	A-2 (A)		428-PC	Derbya? sp. Productus cf. P. mammatus Pustula cf. P. horrida Pustula cf. P. wallaciana Marginifera cf. M. aargardi Rhynchopora cf. R. nikitini Spirifer cf. S. marcoui Spiriferella arctica	Permian ²³
72 Pt	A-2 (A)		5839-PC	Lophophyllum sp. Batostomella sp. Crania? sp. Streptorhynchus cf. S. pelargonatus Chonetes cf. C. morahensis Productus cf. P. koninckianus Pustula cf. P. horrida Pustula cf. P. irginae Pustula sp. Avonia cf. A. porrecta Marginifera cf. M. aargardi Marginifera typica var. septentrionalis? Pugnoides sp. Rhynchopora cf. R. nikitini Spiriferella? arctica Squamularia cf. S. perplexa Pleurotomaria sp.	Permian ²³
			5839a-PC	Triplophyllum sp. Lingula sp. Productus cf. P. cora Productus cf. P. cora (of Tschernyschew) Productus cf. P. koninckianus Productus cf. P. longus Productus cf. P. mammatus Pustula cf. P. irginae Marginifera cf. M. aargardi Aulosteges sp. Camarophoria sp. Rhynchopora cf. R. nikitini Spiriferella? arctica Squamularia cf. S. perplexa Cleiothyridina sp. Aviculipecten sp. Pleurotomaria sp. Gastrioceras? sp.	Permian ²³
			5839b-PC	Chonetes cf. C. moranensis Productus cf. P. koninckianus Productus cf. P. longus? Productus cf. P. mammatus	Permian ²³

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
J.B. Mertie (cont) ²					
72 (cont)				Marginifera cf. M. aargardi Pleurotomaria sp.	
			5839c-PC	Streptorhynchus? sp. Productus cf. P. cora (of Tschernyschew) Productus cf. P. koninckianus Productus cf. P. longus Productus cf. P. mammatus Pustula cf. P. irginae Marginifera cf. M. aargardi Camarophoria cf. C. margaritovi Pugnoidea sp. Rhynchopora cf. R. nikitini Spiriferella? arctica var. Squamularia cf. S. perplexa	Permian ²³
73 Pt	A-2 (A)		5840-PC	Triophyllum sp. Streptorhynchus cf. S. pelargonatus Chonetes cf. C. geinitzianus Chonetes cf. C. morahensis Productus cf. P. koninckianus Pustula cf. P. irginae Avonia? cf. A. porrecta Marginifera cf. M. aargardi Rhynchopora cf. R. nikitini Spirifer cf. S. fasciger Spiriferella? arctica Streblopteria? sp.	Permian ²³
74 Cf	B-2 (B)		5842-PC	Chonetes sp. Productus cf. P. koninckianus Marginifera cf. M. aargardi Rhynchopora cf. R. nikitini	Permian ²³
75 Rgl?	A-2 (A)		13423-Mes.	Pseudomonotis subcircularis Halobia sp. Trachyceras (Protrachyceras?) sp.	Late Triassic ²⁴
76 Rgl	A-2 (A)		13424-Mes.	Halobia sp. Clionites? sp.	Late Triassic ²⁴
77 Rgl?	A-2 (A)		13425-Mes.	Pseudomonotis subcircularis Pseudomonotis subcircularis? Halobia sp.	Late Triassic ²⁴
			13426-Mes.	Halobia sp.	Late Triassic ²⁴
			13427-Mes.	Rhynchonella sp. Pecten sp. Nautilus sp. Monophyllites? sp. Nathorstites sp.	Late Triassic ²⁴
78 Kb	B-3 (A)		13428-Mes.	Inoceramus sp. Belemnites? sp.	Early Cretaceous ²⁴
Collections of A.C. Waters ²					
79 Pt?	A-1 (A)	30 AW 12	6845-PC	Acervularia? ap. Coeloceras? sp. Chonetes sp. Productus cf. P. cora Tschernyschew, not D'Orbigny Pustula cf. P. punctata Pustula cf. P. irginae Modiola sp. Aviculipecten cf. A. magnus Ostracoda	Permian ²³
			6845-PC	Astercalamites scrobiculatus	Late Mississippian ²⁶
80 OEjr	A-1 (A)	30 AW 22		Elkania hamburgensis (Walcott) Dicellomus? sp. Acrothele? burlingi Acrotreta cf. A. curvata Eurekia sp.	Late Cambrian ³³

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
A.C. Waters (cont) ²					
81 O€jr	A-1 (A)	30 AW 58,59	Kirk no. 2533-SD	"Archaeocyathus"	Middle Cambrian ²⁷
		30 AW 58	Kirk no. 2533-SD ⁵	Re-examination of collection	Early Cambrian ³⁰
82 O€h	A-1 (A)	30 AW 60	Kirk no. 2539-SD	Archaeocyathus sp. "Archaeocyathus" sp.	Middle Cambrian ²⁷
			Kirk no. 2539-SD ⁵	Re-examination of collection	Early Cambrian ³⁰
		30 AW 61		Fragmentary brachiopods, probably referable to Eoorthis and Obulus	Late Cambrian ²⁷
83 O€h	A-1 (A)	30 AW 62	Kirk no. 2941-SD	Archaeocyathus sp. Ethmophyllum sp. Doropyge? sp.	Middle Cambrian ²⁷
			Kirk no. 2941-SD ⁵	Re-examination of collection	Early Cambrian ³⁰
84 MDf	A-1 (A)	30 AW 72		Psilophyton?	Early Mississippian ²⁶
85 MDf	A-1 (A)	30 AW 75		Pseudobornia? Lepidocystis? Asteroxylon?	Early Mississippian ²⁶
86 MDf	A-1 (A)	30 AW 80	6846A-PC	Fenestella, several sp. Rhombopora sp. Cystodictya cf. C. lineata Orthotetes? sp. Rhipidomella cf. R. burlingtonensis Chonetes sp. Productus cf. P. inflatus Productus ovatus? Productus cf. P. parvus Productus sp. Pustula cf. P. vittata Pustula cf. P. wallaciana Pustula cf. P. wallaciana var. Pustula cf. P. biseriata Pustula? sp. Spirifer sp. Brachythyris cf. B. subcardiiformis Clieothyridina cf. C. sublamellosa Composita sp. Hustedia sp. Edmondia sp. Parallelodon? sp. Cypricardinia sp. Bucanopsis? sp. Pleurotomaria sp. Euomphalus sp. Goniatites cf. G. choctawensis Paraparchites? sp.	Late Mississippian ²³
			6846A-PC ⁴	Goniatites cf. G. granosus	Late Mississippian ³⁷
		30 AW 81	6846B-PC	Caneyella cf. C. nasuta? Gastrioceras cf. G. caneyanum	Late Mississippian ²³
			6846B-PC ⁴	Neoglyphioceras sp.	Late Mississippian ³³
87 MDf	A-1 (A)	30 AW 83	6841A-PC	Productus sp. Pustula cf. P. biseriata Pustula sp.	Late Mississippian ²³
Collections and observations of E.E. Brabb ⁶					
88 PMcb	A-1	60 ABa 101		Crinoids, brachiopods, corals bryozoa, spirifers, fine ribbed productid brachiopods, pelmatozoan debris, bellerophonid gastropods	

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
E.E. Brabb (cont) ⁶					
89 PMcb	A-1	60 ABa 102		Spirifers, pelecypods, planispiral cephalopods, dictyoclostoid brachiopods, plant fragments	
			21762-PC	Posidonia sp.	Devonian-Permian ³⁴
90 PMcb	A-1	60 ABa 111		Horned corals, brachiopods	
91 DOr	A-1	60 ABa 121	D167-SD ⁷	Linograptus aff. L. posthumus (Reihn. Richter) Monograptus dubius (Suess) Monograptus cf. M. dubius (Suess) Monograptus aff. M. praedubius (Boucek) Monograptus pseudodubius (Boucek) Monograptus uncinatus Tullberg	Silurian (early Ludlow, Monograptus-nilsonni zone) ^{32,35}
				Climacograptus cf. C. antiquus Lapworth Climacograptus sp. Dicellograptus cf. D. sextans var. perexilis, Ruedemann	Ordovician ³⁵
		60 ABa 121B		Corals	
			D754-CO ⁷	Climacograptus cf. C. phyllophorous Gurley Climacograptus sp. Cryptograptus schaeferi (Lapworth) Cryptograptus tricornis (Carruthers) Dichograptid fragment Dicellograptus cf. D. smithi Ruedemann Dicellograptus gurleyi Lapworth Dicranograptus contortus Ruedemann? Glossograptus hincksii (Hopkinson)? Glyptograptus teretiusculus (Hisinger)? Glyptograptus sp. Orthograptus? sp.	Late Ordovician (early Caradocian) ³²
92 DOr?	A-1	60 ABa 122		Plant fragments	
			6841-SD	Straparollus (Euomphalus) sp. Michelinoceras? sp. Agoniatites	Silurian-Permian ³⁶ Middle? or Late? Devonian ³⁷
93 OCh	A-1	60 ABa 131A	4303-CO ^{3,5}	Dorypyge cf. D. olenekensis Lazarenko Prohedinia brevifrons n. sp. Semisphaerocephalus latus n. sp. Spencella acanthina n. sp. Spencella? sp.	Middle Cambrian ³⁰
		60 ABa 131B	4302-CO ^{3,5}	Aldonaia alaskensis n. sp. "Antagmus" laminatus n. sp. Bonnina tatondukensis n. sp. Onchocephalus profectus n. sp. Ogygopsis antiqua n. sp. Olenellid undet. 1 Olenellid undet. 2 Genus and species undet. 2 Genus and species undet. 3	Early Cambrian ³⁰
		60 ABa 131EA 60 ABa 131FA 60 ABa 131FB	4304-CO ⁵ 4308-CO ⁵ 4309-CO ⁵	Trilobites, brachiopods, archaeocyathids	Middle Cambrian ³⁰
		60 ABa 131H	4310-CO ^{3,5}	"cf. Marjumiella callas, Walcott"	Middle Cambrian ³⁰
		60 ABa 131JA	4325-CO ⁵	Trilobites, brachiopods, archaeocyathids	Middle Cambrian
		60 ABa 131JB	4326-CO ⁵	Hypagnostus sp. Cedaria sp.	Middle Cambrian ³⁰
		60 ABa 131K	4327-CO ⁵	Trilobites, brachiopods, archaeocyathids	Middle or Late Cambrian ³⁰
		60 ABa 131LB		Brachiopods	
94 OCh	A-1	60 ABa 184		Archaeocyathus	Early Cambrian

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
E.E. Brabb (cont) ⁶					
95 Do	A-1	60 ABa 192	6443-SD ⁸	Alveolites sp. Cladopora sp. Favosites sp. B.? Thamnopora	Early or Middle Devonian ³⁸
			6443-SD	Echinoderm debris Fenestrate bryozoans, indet. Rhynchonellid, indet. Atrypa sp. Cyrtina? sp. Thamnopora sp. Cortezorthis? sp.	late Early or early Middle Devonian ⁴¹
96 Do	A-1	60 ABa 194		Fossiliferous	
97 OCh	A-1	60 ABa 203		Crinoids, brachiopods, archaeocyathids	
98 OCh	A-1	60 ABa 204		Archaeocyathids, corals, large brachiopods	
			6444-SD ^{7,8}	Xystriphyllum sp. cf. Stenophyllum gorskii (Bulvanker)	early Middle Devonian (Eifelian) ³⁸
99 OCh	A-1	60 ABa 206		Archaeocyathids	
100 Do	A-1	60 ABa 211		Brachiopod fragments, indet. Echinoderm debris, including 2-hole columnals Smooth ostracods	late Early or early Middle Devonian ⁴¹
101 Dnr	A-1	60 ABa 451	D1927 ⁹	Well-preserved spore assemblage comparable to, but less diverse than locality 60 ABa 687 (map number 126)	probably Late Devonian ³⁹
102 Dm?	A-1	60 ABa 471		Plant fragments	late Paleozoic ⁴⁰
103 MDf	A-1	60 ABa 472		Rhacopteris?	Mississippian ⁴⁰
104 PMcb	A-1	60 ABa 482		Forams?	
105 MDf	A-1	60 ABa 484		Plant fragments	
106 KJgu?	C-1	60 ABa 503		Forams?	
107 KJgu?	B-1	60 ABa 532		Gastropods?	
108 Kk	B-1	60 ABa 543		Inoceramus prisms?	
109 Kk	B-1	60 ABa 544		Rhynchonelloid and terebratuloid brachiopods Pectenoid clam fragments, (Camptochlamys?)	Mesozoic ⁴¹
110 Kk	B-1	60 ABa 551		Halobia aff. H. brooksi Smith Pteria?, sp. indet. Indet. ammonite Indet. spiriferid brachiopod	middle late Triassic? (late Karnian) ⁴²
111 KJgu?	B-1	60 ABa 552	M1026 ¹⁰	Polyptychites sp. Buchia cf. B. crassicolis	Early Cretaceous (probably Valanginian) ⁴²
112 KJgu?	B-1	60 ABa 553		Forams	Early Cretaceous ²⁵
			M1027	Buchia cf. B. crassicolis	Early Cretaceous (probably Valanginian) ²⁵
113 Pt	B-1	60 ABa 561A	21742-PC ¹¹	Cancrinella sp. Chonetina sp. Krotovia sp. Linoproductus? sp. Megousia sp. Yakovlevia? sp. Permophricodothyris sp. Indet. rhynchonellid Rhynchopora sp.	Late Permian (Guadalupian) ⁴³

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
E.E. Brabb (cont) ⁶					
113 (cont)				Obliquipecten?	Permian ³³
				Euconospira	Permian ³⁶
114 TKs	B-1	60 ABa 573		Plant fragments, coal seam	
			D1797	Aquilapollenites	Late Cretaceous ⁴⁰
115 TKs	B-1	60 ABa 581		Plant fragments, coal seam	Late Cretaceous ⁴⁴
				Calamites	Pennsylvanian? ⁴⁰
			D1798	Betulaepollenites Aquilapollenites Wodehouseia	Late Cretaceous ⁴⁴
116 TKs	B-1	60 ABa 582		Plant fragments, ferns, seed pods	Late Cretaceous
				Small seed membranes	post-Devonian ⁴⁰
			D1799	Aquilapollenites Pachysandra Dacrydium Wodehouseia	Late Cretaceous ⁴⁵
			D1799 ¹²	Aquilapollenites clarireticulatus A. dentatus A. parallelus A. scabridus A. senonicus A. rectus Fibulapollis scabratus	Late Cretaceous ⁴⁵
117 Dnr	B-2	60 ABa 593		Plant fragments	
118 Pt	B-2	60 ABa 614	21745-PC ¹¹	Indet. Pleurotomariacean	indeterminate ³⁶
				Cyrotorostra cf. C. varicostata Branson, 1930 Streblochondria sp. Pectinoids - genus and species indet.	Late Permian (Leonardian or Guadalupian) ³⁴
				Cancrinella sp. Yakovlevia cf. Y. greenlandica Dunbar Indet. orthotetids Rhynchopora sp. Tornquistia toulai (Dunbar) Waagenoconcha payeri (Toula)	Late Permian (Guadalupian or Zechstein) ⁴³
		60 ABa 614A	21744-PC ¹¹	Girtypecten? Pectenoids - genus and species indet.	mid- or Late Permian ³¹
				Indet. chonetid Derbyia? sp. Derbyia cf. D. grandis Waagen Horridonia sp. Krotovia sp. Licharewia sp. Permophricodothyris sp. Neospirifer sp. Odontospirifer? sp. "Spirifer" sp. Waagenoconcha sp. Waagenoconcha sp. cf. W. irginae (Stuckenberg) Yakovlevia sp.	Late Permian (Guadalupian or Zechstein) ⁴³
		60 ABa 614B	21743-PC ¹¹	Streblochondria sp. Plagiostoma? Pectinoids - genus and species indet.	Permian ³⁴
				Architrete cf. A. kempei (Andersson) sp. Krotovia sp. Linoproductus? sp. Lissochonetes? sp. Neochonetes? sp. Permophricodothyris sp. "Productus" arcticus Whitfield Rhynchopora sp.	Late Permian (Guadalupian or Zechstein) ⁴³

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
E.E. Brabb (cont) ⁶					
118 (cont)				Striatifera sp. Streptorhynchus sp. Strophalosia sp. Thamnosia sp. cf. T. arctica (Whitfield) Tornquistia? sp. Waagenoconcha cf. W. irginae (Stuckenberg)	
119 Dm	B-2	60 ABa 622 ⁹		Spores	probably Late Devonian ³⁹
120 Dm	B-2	60 ABa 631		Brachiopods, crinoid stems	
				Fenestrate bryozoan fragment Warrenella?	Middle Devonian ⁴¹
121 DOr	B-2	60 ABa 632	6445-SD ^{7,8}	Echyropora? sp. Favosites sp. Spongophyllum sp. A. Thamnopora sp.	Middle Devonian ³⁸
				Echinoderm debris and large columnals, indet. Fenestrate bryozoan fragments, indet. Amissopecten? sp. (rhynchonellid brachiopod) Spinatrypa sp. (large) Medium-spined gastropod, indet.	Middle Devonian ⁴¹
122 Dnr	A-2	60 ABa 645		Plant fragments	
123 Dnr	A-2	60 ABa 652		Plant fragments in float	
124 Pt?	A-2	60 ABa 672A	21752-PC ¹¹	Astartella sp. Edmondia sp.	Permian ³⁴
			21752-PC ¹¹	Brachiopods, not examined	Permian ⁴³
			22328-PC ¹¹	Cancrinella? sp. Horridonia sp. Liosotella pseudohorrida (Wiman) Megousia sp. Neochonetes sp. Neophricadothyris sp. Neospirifer sp. Rhynchopora sp. Septacamera? sp. Spiriferella sp. Stenosisma sp. Tornquistia sp. (large)	Permian ⁴³
		60 ABa 672B	27157-PC	Gastropod - new genus	unknown ³⁶
			21769-PC ¹¹	Megousia sp. Neochonetes sp. Rhynchopora sp.	Permian ⁴³
		60 ABa 672C	21753-PC ¹¹	Cancrinella sp. Megousia sp. Permophricadothyris sp. Orbiculoidea sp. Rhynchopora? sp. Yakovlevia mammata (Keyserling)	Permian ⁴³
		60 ABa 672CB	21795-PC ¹¹	Lingula sp. Orbiculoidea sp. Cancrinella sp. Cleiothyridina sp. Horridonia sp. Megousia sp. (small) Rhynchopora sp. Tornquistia sp. Yakovlevia mammata (Keyserling)	Permian ⁴³
		60 ABa 672D	21754-PC ¹¹	Anidanthus? sp. Lingula cf. L. freboldi Gobbett Linoproductus sp. Lissochonetes sp.	Permian ⁴³

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
E.E. Brabb (cont) ⁶					
124 (cont)				Megousia sp. Permophricodothyris sp. Rhynchopora sp. Yakovlevia mammata (Keyserling)	
				Pectinoid pelecypods	Permian ³⁴
		67A2+22	23046-PC ¹¹	Brachiopods, not examined (collected by Brabb and others close to 60 ABa 672D)	Permian ⁴³
		67A2+40	23047-PC ¹¹	Brachiopods not examined (collected by Brabb and others 18 feet above 60 ABa 672D)	Permian ⁴³
		60 ABa 672E	21755-PC ¹¹	Cancrinella sp. Cleiothyridina sp. Liosotella sp. Rhynchopora sp. Yakovlevia mammata (Keyserling)	Permian ⁴³
			21797-PC ¹¹	Cancrinella sp. Neospirifer? sp. Spiriferella 2 spp. Thamnosia sp. cf. T. arctica (Whitfield) Yakovlevia mammata (Keyserling)	Permian ⁴³
		67A2+45	23048-PC ¹¹	Stenosisma sp. spitzbergiana (Stepanov) Brachiopods, not examined (collected by Brabb and others, 1 foot above 60 ABa 672E)	Permian ⁴³
		67A2+47	23049-PC ¹¹	Thamnosia sp. cf. T. arctica (Whitfield) Brachiopods, not examined (collected by Brabb and others 3 feet above 60 ABa 672E)	Permian ⁴³
		67A2+49	23050-PC ¹¹	Martinia sp. Thamnosia sp. cf. T. arctica (Whitfield) Brachiopods, not examined (collected by Brabb and others 5 feet above 60 ABa 672E)	Permian ⁴³
		60 ABa 672F	21756-PC ¹¹	Antiquatonia sp. Calliprotonia? sp. Cancrinella sp. Dielasma cf. D. timanicum (Tschernyshev) Martinia sp. Megousia sp. Permophricodothyris sp. Pulchratia sp. Rhynchopora sp. Stenosisma spitzbergiana (Stepanov) Thamnosia sp. cf. T. arctica (Whitfield)	Permian ⁴³
			21798-PC ¹¹	Cancrinella sp.	Permian ³⁴
		67A2+53	23051-PC ¹¹	Permophricodothyris sp. cf. P. nodosa (Chao) Spiriferella sp. cf. S. saranae (Verneuil) Yakovlevia mammata (Keyserling) Brachiopods, not examined (collected by Brabb and others near or at 60 ABa 672F)	Permian ⁴³
		67A2+60	23052-PC ¹¹	Liosotella sp. pseudohorrida (Wiman) Brachiopods, not examined (collected by Brabb and others 7 feet above 60 ABa 672F)	Permian ⁴³
		60 ABa 672G	21757-PC ¹¹	Pelecypods	Permian ³⁴
				Anidanthus Cancrinella sp. Choristites Indet. leiorhynchoid Linoproductus sp.	Permian ⁴³

Map number- map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
E.E. Brabb (cont) ⁶					
124 (cont)				Liosotella pseudohorrida (Wiman)? Neochonetes sp. Permophricodothyris sp. Rhynchopora sp. Spiriferella sp. Stenoscisma sp. Thamnosia sp. cf. T. arctica (Whitfield) Waagenconcha sp. Yakovlevia mammata (Keyserling)	
			22322-PC ¹¹	Cancrinella sp. Linoproductus sp. Permophricodothyris sp. Thamnosia sp. cf. T. arctica (Whitfield) Spiriferella sp. Yakovlevia mammata (Keyserling)	Permian ⁴³
		60 ABa 672H	21758-PC ¹¹	Anidanthus sp. Cancrinella sp. Cleiothyridina sp. Linoproductus sp. Permophricodothyris sp. Thamnosia sp. cf. T. arctica (Whitfield) Yakovlevia mammata (Keyserling)	Permian ⁴³
			22325-PC	Plagiostoma?	Permian ³⁴
		67A2+66	23053-PC ¹¹	Cancrinella sp. Brachiopods, not examined (collected by Brabb and others 1 foot above 62 ABa 672H)	Permian ⁴³
		67A2+71	23054-PC ¹¹	Linoproductus sp. cf. L. schrencki (Stuckenbergl) Brachiopods, not examined (collected by Brabb and others 6 feet above 62 ABa 672H)	Permian ⁴³
		67A2+79-81	23055-PC ¹¹	Horridonia sp. granulifera (Toula) Liosotella sp. pseudohorrida (Wiman) Brachiopods, not examined (collected by Brabb and others 14-16 feet above 60 ABa 672H)	Permian ⁴³
		67A2+85	23056-PC ¹¹	Brachiopods, not examined	Permian ⁴³
		60 ABa 672J	27760-PC	Pelecypods	Permian ³⁴
			22325-PC ¹¹	Horridonia sp. Kuvelousia sphiva Waterhouse Liosotella pseudohorrida (Wiman) Megousia sp. Rhynchopora sp. Spiriferella sp. Spiriferella sp. (tiny) Tornquistia sp. Yakovlevia mammata (Keyserling)	Permian ⁴³
			21760-PC ¹¹	Cancrinella sp. Indet. chonetid? Craspedalosia? sp. Horridonia sp. Liosotella pseudohorrida (Wiman) Megousia sp. Neochonetes sp. Permophricodothyris sp. Rhynchopora sp. Septacamera cf. S. kutorgae (Tschernyshev) Spiriferella sp. Stenoscisma sp. Thamnosia sp. cf. T. arctica (Whitfield) Waagenoconcha sp. cf. W. igrinae (Stuckenbergl)	Permian ⁴³
			22326-PC ¹¹	Rhynchopora Spiriferella sp. (collected from float)	Permian ⁴³

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
E.E. Brabb (cont) ⁶					
124 (cont)		67A2+105	23057-PC ¹¹	Brachiopods, not examined (collected by Brabb and others 8 feet above 60 ABa 672J)	Permian ⁴³
		67A2+106	23058-PC ¹¹	Brachiopods, not examined (collected by Brabb and others 9 feet above 60 ABa 672J)	Permian ⁴³
		60 ABa 672JA	22328-PC ¹¹	Cancrinella? sp. Horridonia sp. Liosotella sp. pseudohorrida (Wiman) Megousia sp. Neochonetes sp. Neospirifer sp. Permophricodothyris sp. Rhynchopora sp. Spiriferella sp. Stenoscisma sp. Tornquistia sp.	Permian ⁴³
		67A2+110	23059-PC ¹¹	Brachiopods, not examined (collected by Brabb and others 13 feet above 60 ABa 672JA)	Permian ⁴³
		60 ABa 672K	21759-PC ¹¹	Anidanthus? sp. Cancrinella sp. Horridonia sp. Kuvelousia sphiva Waterhouse Liosotella pseudohorrida (Wiman) Megousia sp. Neochonetes sp. Pterospirifer sp. Rhynchopora sp. Waagenoconcha? sp. cf. W. irginae (Stuckenberg) Yakovlevia mammata (Keyserling)	Permian ⁴³
			22324-PC ¹¹	Horridonia sp. Kuvelousia sphiva Waterhouse Linoproductus sp. Liosotella pseudohorrida (Wiman) Megousia sp. Pterospirifer sp. Rhynchopora sp. Waagenoconcha sp. cf. W. irginae (Stuckenberg)	Permian ⁴³
125 Dnr	A-1	60 ABa 685		Plant fragments	
126 Dnr	A-1	60 ABa 687	D1928 ⁹	Spores: Verrucosiporites Leiotriletes Leiozonotriletes Hymenozonotriletes Retusotriletes Reticulatisporites Stenozonotriletes Convolutispora Trilete spores belonging to the Archeotriletes-Hystricosporites-Ancrospora complex	Middle to Late Devonian (probably Late Devonian) ³⁹
127 Pt	A-2	60 ABa 731		Fossiliferous	
128 Rgl	A-2	60 ABa 732	M1020	Indet. ammonite with a lobitid-like suture Paranautilus sp. Halobia superba Mojsisovics, of Smith Monotis salinaria Bronn (= M. alaskana? Smith) Rhynchonella sp. A. Terebratula sp.	Late Triassic (Karnian to Norian) ⁴²
129 TKs	A-2	60 ABa 733		Plant fragments	
130 Rgl	A-2	60 ABa 745		Halobia Pseudomonotis	

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
E.E. Brabb (cont) ⁶					
131 Rgl	A-2	60 ABa 746	M1019	Cladiscites cf. <i>C. beyrichi</i> Welter Discophyllites ebneri (Mojsisovics) of Welter Indet. clydonitacid ammonite Germanonutilus brooksi Smith Proclydonautilus aff. <i>P. griesbachii</i> Mojsisovics Mojsvaroceras n. sp.? Paranautilus sp. Halobia?, sp. indet. Pectenid pelecypod Nuculid pelecypod Spiriferina aff. <i>S. yukonensis</i> Smith <i>S. spp.</i> Rhynchonella sp. A <i>R. sp.</i> Terebratula sp.	Late Triassic (Karnian to Norian) ⁴²
132 Pt	A-2	60 ABa 751		Productids	
133 Rgl	A-2	60 ABa 752		Halobia Pseudomonotis	
134 Kka	C-1	60 ABa 802		Inoceramus?	
135 Kka	C-1	60 ABa 832		Carbonized plant fragments	
136 Kka	B-2	60 ABa 924		Plant fragments	
137 Kka	B-2	60 ABa 925		Plant fragments	
138 Kka	B-2	60 ABa 931		Plant fragments	
139 Kb	B-3	60 ABa 944		Worm tubes	
140 PMcb	A-1	60 ABa 972		Bryozoa, pelecypods?, crustacea fragments	
141 Dnr	A-1	60 ABa 981	D3043 ⁹	Spores of the Nation River assemblage	Late Devonian ³⁹
142 Dnr	A-1	60 ABa 982		Plant fragments	
143 Dnr	A-1	60 ABa 984	6829-SD	"Acinophyllum" sp. cf. <i>A. sp. D McLaren</i> (S2, 3, 6) Hexagonaria sp. (S4) Spongophyllum sp. cf. <i>S. media</i> Soshkina (S7) Xystriphyllum sp. cf. <i>Fasciphyllum submassivum</i> Bulvankar (S1, 5?)	early Middle Devonian (Eifelian) ³⁸
144 Kb	B-3	60 ABa 1211		Inoceramus	
145 Pt	A-2	60 ABa 1212A	21751-PC ¹¹	Attenuatella sp. Cancrinella sp. Composita cf. <i>C. ambigua</i> (Sowerby) Indet. linoproductid Kuvelousia sphiva Waterhouse Linoproductus sp. Licharewia sp. Liosotella sp. Liosotella pseudohorrida (Wiman) Megousia sp. Odontospirifer sp. Pterospirifer alatus (Schlotheim) Rhynchopora sp. Stenosisma sp. Tornquistia sp.	Permian ⁴³
		67A3-13, 67A3-15	23062-PC ¹¹	Kuvelousia sphiva Waterhouse Neospirifer sp. cf. <i>N. striatoparadoxus</i> (Toula) Brachiopods, not examined (collected by Brabb and others at or near 60 ABa 1212A)	Permian ⁴³
		60 ABa 1212B	21750-PC, 21751-PC ¹¹	Cancrinella sp. Cancrinella tenuissima Gobbett Hustedia sp.	Permian ⁴³

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
E.E. Brabb (cont) ⁶					
145 (cont)				Horridonia sp. Kuvellousia sp. cf. K. weyprechtii (Toula) Liosotella pseudohorrida (Wiman) Permophricodothyris sp. Psilocamara? sp. Rhynchopora sp. Spiriferella cf. S. keilhavi (Buch) Thamnosia sp. Tornquistia sp.	
		67A3-150	23061-PC ¹¹	Neospirifer sp. cf. N. striatoparadoxus (Toula) Waagenochoncha sp. cf. W. irginae (Stuckenberga) Waagenochoncha sp. cf. W. irinaeformis (Stepanov) Brachiopods, not examined (collected by Brabb and others about 65 feet below 60 ABa 1212B)	Permian ⁴³
		60 ABa 1212C	21749-PC ¹¹	Derbyia? sp. Horridonia sp. Kuvellousia sphiva Waterhouse Megousia sp. Permophricodothyris sp. Rhynchopora sp. Tornquistia sp. Yakovlevia mammata (Keyserling)	
		60 ABa 1212D	21748-PC ¹¹	Antiquatonia sp. Indet. derbyioid Indet. chonetid Liosotella pseudohorrida (Wiman) Rhynchopora sp. Schuchertella? sp. Spiriferella sp. Spiriferella sp. draschei (Toula) Spiriferella keilhavi (Buch) very abundant Thamnosia sp.	Permian ⁴³
		60 ABa 1212E	21747-PC ¹¹	Cancrinella? sp. Horridonia sp. Liosotella pseudohorrida (Wiman) Rhynchopora sp. Undaria? or Striatifera	Permian ⁴³
		67A3-265	23060-PC ¹¹	Fossils (collected by Brabb and others at or near 60 ABa 1212E)	
		60 ABa 1212F	21746-PC ¹¹	Cancrinella? sp. Crurithyris sp. Indet. derbyioid Horridonia sp. Megousia sp. Permophricodothyris? sp. Neospirifer sp. Rhynchopora sp. Spiriferella sp. Stenosclisma sp.	Permian ⁴³
146 Dnr	A-1	60 ABa 1231		Lepidodendroid bark impressions	Devonian-Permian ⁴⁰
147 Cf?	A-2	61 ABa 1873		Crinoid stems?	
148 Pt	A-2	61 ABa 1881	21741-PC ¹¹	Horridonia cf. H. timanica (Stuckenberga) Yakovlevia sp. cf. Y. greenlandica Dunbar Odontospirifer sp. Spiriferella keilhavi (Buch)	mid-early Late Permian ⁴³
149 Rgl	A-2	61 ABa 1884		Monotis sp., indet. Halobia aff. H. distincta Mojsisovics	late Late Triassic (middle or late Norian) ⁴²
150 OCh	A-1	61 ABa 2033	4299-C0	Archaeocyathus	Early Cambrian ³⁰

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
E.E. Brabb (cont) ⁶					
151 TKs	A-3	62 ABa 2542	D1933	Aquilapollenites Wodehousia	Late Cretaceous ³⁹
152 TKs	A-3	62 ABa 2544		Metasequoia glyptostroboides Hu and Cheng Trochodendroides richardsoni (Heer) Krystofovich	early Tertiary ⁴⁶
			D1934	Cicatricoporites Piatillipollenites	early Tertiary (probably Eocene) ³⁹
153 Kb	C-2	62 ABa 2634		Mesozoic fossils reported in the area	
154 Kb	C-2	62 ABa 2637		Plant hash	
155 Dnr	A-2	62 ABa 2662		Plant hash	
156 Kb	B-3	62 ABa 2672		Worm trails	
157 Ps	C-1	62 ABa 2684		Plant and crinoid hash	
158 KJgu	C-1	62 ABa 2704		Plant hash	
159 DOr	B-2	62 ABa 2771A,C	D199a,b-SD ^{7,8}	Monograptus cf. M. yukonensis Jackson and Lenz	Late Silurian (Ludlovian) ^{32,35}
		62 ABa 2771F	6822-SD ^{7,8}	Favosites sp. Xystriphyllum sp. cf. Stenophyllum gorskii Bulvanker	early Middle Devonian (Eifelian) ³⁸
		62 ABa 2771G	6823-SD ^{7,8}	Echyropora? sp. Favosites sp. B? Spongophyllum sp. A	early Middle Devonian (Eifelian) ³⁸
		62 ABa 2771H	6824-SD ^{7,8}	Favosites type A Acanthophyllum (Acanthophyllum) sp.	early Middle Devonian (Eifelian) ³⁸
160 Do	A-1	62 ABa 2802	6825-SD	Favosites type C (S1) "Fasciphyllum" sp. cf. F. schluteri Soshkina (S2) Keriophyllum sp.	early Middle Devonian (Eifelian) ³⁸
			6825-SD ⁸	Cyathophyllum (Peripaedium) sp. cf. Keriophyllum sp. F. McLaren Xystriphyllum sp. cf. Fasciphyllum schluteri Soshkina	Early or Middle Devonian ³⁸
			7172-SD ⁸	Alveolites sp. Xystriphyllum sp. cf. Fasciphyllum schluteri Soshkina	Early or Middle Devonian ³⁸
161 OEjr	A-1	62 ABa 2812	D1077-C0 ⁵	Apheoorthis sp. Plectotrophia sp. Symphysurina? sp.	Early Ordovician ³²
162 Do	B-1	62 ABa 2842	7179-SD ⁸	Alveolites sp. Favosites sp. A Echyropora? sp. Hexagonaria sp.	Early or Middle Devonian ³⁸
		62 ABa 2842A	6826-SD ^{7,8}	Favosites type A F. type C (S3,5) Spongophyllum sp. A Xystriphyllum sp. cf. Stenophyllum gorskii Bulvanker Indet. horn coral Bryozoans	early Middle Devonian (Eifelian) ³⁸
			7179-SD ⁷	Alveolites sp. Favosites sp. B "Pachyfavosites" sp. cf. P. vijaicus "Acinophyllum" sp. (cerioid) Horn corals (undet.)	lower Middle Devonian ³⁸
			D198-SD ⁷	Monograptus bohemicus (Barrande)? Monograptus crinitus Wood Monograptus nilssoni (Barrande)	Late Silurian (Ludlovian) ^{32,35}

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
E.E. Brabb (cont) ⁶					
162 (cont)				Monograptus scanicus Tillburg Monograptus cf. M. tumescens Wood	
163 O€h	A-1	62 ABa 2852		Fossils	
164 MDf	A-1	62 ABa 2853		Plant fragments	
165 O€h	A-1	62 ABa 2855	4346-C0 ³	"cf. Cotalagnostus lens claudicans Westergard" Corynexochid, genus and species undet. Ptychagnostus sp. undet.	Middle Cambrian ³⁰
166 DOr	A-1	63 ABa 3231A	M1017-C0 ⁷	Cryptograptus tricornis? (Carruthers) Didymograptus sp. of extensiform type Glossograptus, sp. indet. Glyptograptus teretiusculus (Hisinger) G. n. sp. with thecal spines Isograptus n. sp. Orthograptus cf. O. calcaratus (Lapworth) Pseudoclimacograptus scharenbergi (Lapworth) Retiograptus geinitzianus J. Hall	Ordovician (Llandellian to earliest Caradocian) ³²
		63 ABa 3231B	M1018-C0 ⁷ D1417-C0 ⁷	Graptolites: Dicellograptus sextans var. exilis Elles and Wood Dicellograptus cf. D. smithi Glyptograptus sp. Climacograptus sp. Didymograptus sp. of extensiform type Glossograptus? Diplograptus sp. Pseudoclimacograptus cf. P. scharenbergi Caryocaris sp.	Late Ordovician (early Caradocian) ⁴⁷
			M1004-SD ⁷	Linograptus, sp. indet. Linograptus? sp. Monograptus dubius (Suess)	Late Silurian (Ludlovian) ⁴⁷
				Trilobites - Shumardia? - Odontopleurid? Brachiopods - Inarticulata?	
		63 ABa 3231C	M1019-C0 ⁷	Dicellograptus sextans var. exilis Elles and Wood Dicellograptus cf. D. smithi Corynoides tricornis Ruedemann Cryptograptus, sp. indet. Glyptograptus teretiusculus var. siccatus Elles and Wood Glyptograptus sp. Climacograptus sp. Nemagraptus grucilis (J. Hall) Glossograptus? Orthograptus, sp. indet. Diplograptus sp. Pseudoclimacograptus cf. P. scharenbergi? Caryocaris sp.	Late Ordovician (early Caradocian) ⁴⁷
		63 ABa 3231D	M1020-C0 ⁷	Corynoides sp. Cryptograptus, sp. indet. Glyptograptus sp. Climacograptus sp. Didymograptus sp. of extensiform type (r) Dicellograptus sextans var. exilis Elles and Wood Diplograptus sp. Orthograptus, sp. indet. Pseudoclimacograptus cf. P. scharenbergi	Late Ordovician (early Caradocian) ⁴⁷
		63 ABa 3231E	M1021-C0 ⁷	Dicellograptus sextans var. exilis Elles and Wood Glyptograptus sp. Climacograptus sp. Didymograptus sp. of extensiform type	Late Ordovician (early Caradocian) ⁴⁷

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
E.E. Brabb (cont) ⁶					
166 (cont)		63 ABa 3231F	M1022-CO ⁷	Corynoides sp. Cryptograptus tricornis (Carruthers) Glyptograptus teretiusculus var. siccatus Elles and Wood Climacograptus sp. Didymograptus sp. of extensiform type Dicellograptus cf. D. caduceus Lapworth Dicellograptus sextans var. exilis Elles and Wood Glossograptus Diplograptus, sp. indet. Pseudoclimacograptus cf. P. scharenbergi Nemagraptus? sp. Retiograptus geinizianus J. Hall	Late Ordovician (early Caradocian) ⁴⁷
		63 ABa 3231G	M1023-CO ⁷	Amplexograptus cf. A. confertus (Lapworth) Glyptograptus sp. Climacograptus aff. C. antiquus Lapworth Didymograptus serratulus (J. Hall)? Didymograptus sp. of extensiform type Corynoides tricornis Ruedemann Glossograptus, sp. indet. Cryptograptus tricornis (Carruthers) Diplograptus, sp. indet. Isograptus n. sp. transient to Oncograptus Pseudoclimacograptus cf. P. scharenbergi (Lapworth) Pseudoclimacograptus cf. P. marathonensis Clarkson Caryocaris sp.	Late Ordovician (early Caradocian) ⁴⁷
		63 ABa 3231M	M1012-SD ⁷	Climacograptus? Monograptus sp. with hooked and isolate thecae	Early Silurian (late Llandoveryan) ⁴⁷
		63 ABa 3231N	M1011-SD ⁷	Diversograptus, sp. indet. Monograptus convolutus (Hisinger) M. aff. M. crenularis Lapworth M. cf. involutus (Lapworth) M. cf. M. priodon (Brown) M., sp. indet. Retiolites, sp. indet.	Early Silurian (late Llandoveryan) ⁴⁷
			7028-SD	Scolecodont Bar-type conodont Simple conodont Oboloid brachiopod Graptolite	not determined ⁴⁸
		63 ABa 3231Q	7029-SD	Hindeodella equidentata Rhodes Ozarkodina? sp.	Early Silurian- Early Devonian ⁴²
167 OCjr	A-1	63 ABa 3332	4361-CO ^{3,5}	Cheilocephalus expansus n. sp. Dunderbergia seducta n. sp. Hardyoides aspinosa n. sp.	early Late Cambrian (late Dresbachian) ³⁰
			4362-CO ⁵	Richardsonella nuchastria n. sp. Richardsonella sp. 1	Late Cambrian (Trempealeuan) ³⁰
		63 ABa 3332B	4363-CO ^{3,5}	Bayfieldia sp. Pseudoagnostus sp.	Late Cambrian (Trempealeuan) ³⁰
168 OCjr	A-1	63 ABa 3333	4364-CO ⁵	Diambonia sp. Cyclospira sp. Ptychoglyptus sp. Sowerbyellid? Xenambonites? sp. Paraharpes? sp. Remopleurides sp. Bumastus? sp. Numerous indet. trilobite fragments	Middle or Late Ordovician ³²
				Eurychilina? sp. Acronotella? sp. Steusloffina sp. cf. S. ulrichi Teichert Smooth ostracods, undet.	Middle or Late Ordovician ⁴⁹
		63 ABa 3333A	4365-CO ⁵	Cyclospira sp. Catazyga? sp. Diambonia? sp.	Late Ordovician (Caradocian) ³²

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
E.E. Brabb (cont) ⁶					
168 (cont)				Sowerbyella? sp. Ptychopteurella? sp. Dalmanellid? brachiopod Odontopleurid trilobite Illaenid trilobite	
				Aparchites? sp. Hesperidella? sp. Platybolbina? sp. Eohollina sp. Steusloffina sp. cf. S. ulrichi Teichert Smooth ostracods, undet.	Middle or Late Ordovician ⁴⁹
		63 ABa 3333B	4366-C0 ⁵	Illaenus? sp. (cranidium only) Asaphid pygidium Coral Ostracods	late Early to early Middle Ordovician ³²
		63 ABa 3333D	4367-C0 ⁵	Symphysurina cf. S. spicata Symphysurina cf. S. cleora (Walcott) Nanorthis? sp. Apheoorthis sp.	Early Ordovician ³²
		63 ABa 3333E	4368-C0 ⁵	Symphysurina spicata Apheoorthis cf. A. ocha (Walcott)	Early Ordovician ³²
		63 ABa 3333F	4369-C0	Symphysurina spicata (very good specimens) Apheoorthis sp.	Early Ordovician ³²
		63 ABa 3333G, I, J, L	4370-C0 ⁵ , 4372-C0 ⁵ , 4373-C0 ⁵ , 4375-C0 ⁵	Trilobites and/or brachiopods, and/or archaeocyathids	latest Cambrian (Trempealeau) ³⁰
		63 ABa 3333H	4371-C0 ^{3,5}	Bayfieldia sp. Pseudagnostus sp.	latest Cambrian (Trempealeau) ³⁰
		63 ABa 3333K	4374-C0 ^{3,5}	Bayfieldia sp.	latest Cambrian (Trempealeau) ³⁰
		63 ABa 3333M	4387-C0 ^{5,8}	Calapoecia sp. Catenipora sp. Manipora sp. Grewinkia? P. sp. Horn corals (undet.)	Late Ordovician ³⁸
		63 ABa 3333N	7173-SD ^{7,8}	Xystriphyllum sp. cf. Stenophyllum devonicum Bulvanker	Middle Devonian (Eifelian) ³⁸
		63 ABa 3333P	7474-SD ^{7,8}	Xystriphyllum? sp. cf. Fasciphyllum schluteri Soihkina	Middle Devonian (Eifelian) ³⁸
169 Do	A-1	63 ABa 3343	7175-SD ⁸	Xystriphyllum sp. cf. Stenophyllum gorskii Bulvanker Xystriphyllum sp. B	Middle Devonian (Eifelian) ³⁸
		63 ABa 3343A	7176-SD ⁸	Spongophyllum sp. A Thamnopora sp.	Middle Devonian (Eifelian) ³⁸
		63 ABa 3343C	7177-SD ⁸	Favositoids - Pachypora sp.	Silurian or Devonian ³⁸
			7177-SD ⁸	Thamnopora? sp.	Early or Middle Devonian ³⁸
		63 ABa 3343D	7178-SD	Massive stromatoporoids Favositids Xystriphyllum sp. Charactophyllum? sp. Horn corals (undet.)	Middle Devonian (Eifelian) ³⁸
			7178-SD ⁸	Acanthophyllum (Acanthophyllum) sp. Xystriphyllum sp. cf. Stenophyllum devonicum Bulvanker	Early or Middle Devonian ³⁸
				Polygnathus linguiformis (Hinde)	probably Middle Devonian ⁴⁸

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
E.E. Brabb (cont) ⁶					
170 OEjr	A-1	63 ABa 3351	4381-C0 ³	Acmarhachis acutus (Kobayashi) Cernuolimbus longifrons n. sp. Dytremachecephalus? sp. Elburgia disgranosa n. sp. Homagnostus alaskensis n. sp. Homagnostus tumidesus (Hall and Whitfield) Homagnostus sp. Iddingsia relativa n. sp. Olenaspella evansi (Kobayashi) Pseudagnostus communis (Hall and Whitfield) Pterocephalia constricta n. sp. Quebecaspis aspinosa n. sp. Quebecaspis conifrons? Rasetti Sigmocheilus? compressus n. sp. Tholifrons advena n. gen., n. sp. Tholifrons minutus n. gen., n. sp.	Late Cambrian (Dresbachian) ³⁰
171 OEjr	A-1	63 ABa 3352	4300-C0 ⁵	Archaeocyathus	Early Cambrian ³⁰
172 DOr	A-1	63 ABa 3362		Graptolites	Early Silurian
			4380-C0 ³	Homagnostus tumidosus (Hall and Whitfield) Iddingsia relativa? n. sp. Pseudagnostus communis (Hall and Whitfield) Quebecaspis sp. Sigmocheilus? compressus n. sp.	Late Cambrian (late Dresbachian) ³⁰
173 OEjr	A-1	63 ABa 3363		Trilobites	
174 Ea	A-1	63 ABa 3373	4346-C0 ⁵	Boulders with archaeocyathus	Middle Cambrian ³⁰
		63 ABa 3373A	4379-C0 ⁵	Boulders with archaeocyathus	Late Cambrian ³⁰
175 OEjr	A-1	63 ABa 3381	4301-C0 ⁵	Archaeocyathus	Early Cambrian ³⁰
176 Pt	B-1	63 ABa 3541	22345-PC ¹¹	Cancrinella sp. Megousia sp. Neochonetes sp. (huge) Neospirifer sp. Orthotetacean (Derbyia or Streptorhynchus) Rhynchopora sp. Stenosisma sp. Thamnosia sp. cf. T. arctica (Whitfield) Waagenoconcha sp.	Permian ⁴³
177 Pt	B-1	63 ABa 3543		Fossils	
178 Pt	B-1	63 ABa 3554		Fossils	
179 Ytsl	B-1	63 ABa 3555		Stromatolites?	
180 Ytsh	A-1	63 ABa 3574		Stromatolites	
181 Ytsl	A-1	63 ABa 3577		Stromatolites	
182 Ytsl	A-1	63 ABa 3581		Stromatolites	
183 Ytsl	B-1	63 ABa 3582		Stromatolites	
184 Ytsl	B-1	63 ABa 3583		Stromatolites	
185 Ytsh	B-1	63 ABa 3597		Stromatolites	
186 Ytsl	B-1	63 ABa 3598		Stromatolites	
187 OEh	A-1	63 ABa 3611	4376-C0 ^{3,5}	Cedaria sp.	Late Cambrian (Dresbachian) ³⁰
188 Ytsl	A-1	63 ABa 3657		Collenia?	
189 Ztdo	A-1	63 ABa 3741		Stromatolites?	
190 Ztdo	A-1	63 ABa 3743		Stromatolites	

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
E.E. Brabb (cont) ⁶					
191 Pt	B-2	63 ABa 3783		Fossils	
192 Pt	B-2	63 ABa 3797		Brachiopods	
193 Pt	B-2	63 ABa 3832	21793-PC ¹¹	Cancrinella sp. Rhynchopora? sp. Stenoscisma sp. Tornquistia sp.	Permian ⁴³
194 KJgu	B-2	63 ABa 3833		Forams	
195 KJgu	B-2	63 ABa 3841	M2055	Buchia cf. B. crassicolis. (Too poorly preserved for positive identification)	not determined ²⁵
				Plant stems	
196 KJgu?	B-2	63 ABa 3842	M2056	Indet. ammonite Oxytoma? sp.	no age significance ²⁵
				Ammonite, inoceramus prisms, forams	
197 Kk	B-2	63 ABa 3853		Forams	
198 KJgu	B-2	63 ABa 3855		Pelecypod fragments (Buchia?)	
199 Kk?	B-2	63 ABa 3863		Pelecypods (Nuculana?)	
200 Kk?	B-2	63 ABa 3864		Pelecypod fragments in talus	
201 Kk?	C-2	63 ABa 3891		Pelecypod fragments	
202 Ps	C-1	63 ABa 4032		Crinoid stems, calcareous fossil hash	
203 Ps	C-1	63 ABa 4042	22359-PC	Antiquatonia? sp. (one poor specimen) Neospirifer? sp. Rhynchopora sp. Stenoscisma sp.	suggests Permian ⁴³
204 Rgl	A-3	63 ABa 4061	M2155	Monotis cf. M. subcircularis Gabb Heterastridium? sp.	Late Triassic (late Norian) ⁴²
205 TKs?	B-3	63 ABa 4062		Forams Inoceramus prisms	
206 Psl	C-1	63 ABa 4083		Cancrinella sp. Krotovia? sp. Liosotella pseudohorrida (Wiman) Lissochonetes? sp. Megousia sp. Muirwoodia sp. Neophricodothyris sp. Rhynchopora sp. Stenoscisma sp. Waagenoconcha cf. W. payeri (Toula) Also, one pygidium of a phillipsiid trilobite (a rare find)	Permian ⁴³
207 Psl	B-2	63 ABa 4085		Brachiopod, crinoid	
208 Psl	B-2	63 ABa 4087	21701-PC	Kochiproductus sp.	probably Permian ⁴³
				Brachiopods, bryozoa	
209 Ps	B-2	63 ABa 4091	22363-PC	Possible "Plicatoderbyia" or a distorted linoproductid Fragments of Composita sp.	indeterminate ⁴³
210 MDf	B-2	63 ABa 4092		Plants - Lepidodendroid?	
211 Ps	B-1	63 ABa 4094		Crinoids in clasts	
212 TKs	B-1	63 ABa 4104		Plant microfossils - small assemblage of just passably preserved forms	Tertiary, probably pre-Miocene ³⁹
213 Dnr	A-2	67 ABa 101A-F	D4484 A-F	Spores: Acanthotriletes spp. Ancyrospora spp. Ancyrospora cf. langii	Devonian ^{39,50}

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
E.E. Brabb (cont) ⁶					
213 (cont)				Ancyrospora cf. simplex Apiculatisporites spp. Archaeoperisaccus sp. (spiny form as in Sappington of Montana) Archaeoperisaccus cf. timanicus Archaeozonotriletes spp. Archaeozonotriletes cf. optivus Auroraspora spp. Auroraspora cf. macromanifestus (Hacuqebard) Richardson Calyptosporites spp. Calyptosporites cf. proteus (Naumova) Camptozonotriletes spp. Cirratriletes cf. avius Corystisporites spp. Craspedispora cf. craspeda Allen Cristatisporites spp. Cymbosporites spp. Densosporites spp. Emphanisporites spp. Geminispora spp. Hymenozonotriletes cf. tichomirovii var. devius Chibrikova, 1959 Hystricosporites spp. Hystricosporites cf. perrectus (Balme and Hassell) Pustulatisporites cf. pretiosus Playford Raistrickia? spp. Retusotriletes spp. Samarisporites spp. Spinozonotriletes	
214 R gl?	A-2	67 ABa 112	D4483A-S	Degraded spores and possible dinoflagellates	spores are non-diagnostic ^{39,50}
215 Pt	A-2	67 ABa 161	23085-PC 23086-PC ¹¹	Chonetina sp. cf. C. superba Gobbett Brachiopods, not examined	Permian ⁴³
216 Pt	A-2	67 ABa 162	23089-PC ¹¹	Brachiopods, not examined	Permian ⁴³
		67A4-200	23082-PC ¹¹	Brachiopods, not examined (collected by R.E. Grant and others at 67 ABa 162)	Permian ⁴³
		67A4-200	23083-PC ¹¹	Arctitreta cf. A. kempei (Andersson) Lissochonetes sp. cf. L. spitzbergiana (Toula) Spiriferella draschei (Toula) Brachiopods, not examined (collected by Brabb near 67 ABa 162)	Permian ⁴³
		67A4-250	23084-PC ¹¹	Brachiopods, not examined (collected by Brabb about 50 feet below 67 ABa 162)	Permian ⁴³
217 Dnr	A-1	67 ABa 171		Spores	Late Devonian
218 Dnr	A-1	67 ABa 172		Spores	Late Devonian
Collections and observations of M. Churkin, Jr. ⁶					
219 KJgu?	B-3	62 ACn 801	M1683	Indet. impression of a coiled cephalopod	probably Mesozoic ⁴²
220 KJgu?	B-3	62 ACn 802	M1684	Monotis, sp. indet. Meleagrinea? sp.	latest Triassic (middle or late Norian) ⁴²
221 R gl	B-3	62 ACn 812	M1685	Monotis cf. M. subcircularis Gabb	latest Triassic (middle or late Norian) ⁴²
222 Dnr	B-1	62 ACn 841		Plant fossils	
223 EZtrb?	B-2	62 ACn 851	M1024-CO ^{9,13}	Oldhamia	probably Cambrian ⁵¹

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
M. Churkin, Jr. (cont) ⁶					
224 Pt	B-2	62 ACn 852		Brachiopods - Neospirifer? Productid brachiopods	
225 €Zrb?	B-2	62 ACn 891	M1025-CO ⁵ , 13	Oldhamia	probably Cambrian ⁵¹
226 Pt	B-2	62 ACn 892		Fossil fragments Large productid brachiopods	Permian
227 R gl	B-2	62 ACn 953	M1686	Halobia dilatata Kittl of Smith	Late Triassic (early Norian) ⁴²
228 Dnr	A-2	62 ACn 1001		Plant fragments?	
			D1939A ⁹	Spores - substantially the same as 60 ABa 687 (map number 126)	Late or Middle Devonian ³⁹
229 Dnr	A-2	62 ACn 1002	D1939B ⁹	Spores - essentially similar in composition to 62 AA 311A (map number 315)	Late or Middle Devonian ³⁹
230 Dnr	A-2	62 ACn 1003		Plant fragments	
231 Dnr	A-2	62 ACn 1011	D1940A ^{9,14}	Acanthotriletes (Naumova) Potonié and Kremp Ancyrospora Richardson 1960 Archaeoperisaccus Naumova 1953 Archaeozonotriletes (Naumova) Allen 1965 Auroraspora macromanifestus (Hacquebard) Richardson Auroraspora Hoffmeister, Staplin and Malloy 1955 Calamospora Schopf, Wilson, and Bental 1944 Camptozonotriletes Staplin 1960 Convolutispora Hoffmeister, Staplin, and Malloy 1955 "cf. Convolutispora mimerensis (Vigran) Allen" Corystisporites Richardson 1965 Cristatisporites Potonié and Kremp 1954 Diaphanospora Balmé and Hassell 1962 Foveosporites pertusus Vigran Foveosporites Balmé 1957 Hymenozonotriletes Naumova 1953 Hystricosporites McGregor 1960 Leiotriletes (Naumova) Potonié and Kremp 1954 Leiozonotriletes Hacquebard 1957 Lophozonotriletes (Naumova) Potonié and Kremp 1954 Lycospora (Schopf, Wilson, and Bental) Potonié and Kremp 1954 Pustulatisporites pretiosus Playford Pustulatisporites (Potonié and Kremp) Imgrund 1960 Raistrickia (Schopf, Wilson, and Bental) Potonié and Kremp 1954 Retusotriletes (Naumova) Richardson 1965 Samarisporites Richardson 1965 Samarisporites triangulatus Allen	Late or Middle Devonian ³⁹
		62 ACn 1012	D1940B ^{9,14}	Spores - Essentially the same as 62 ACn 1011 but less well preserved	Late or Middle Devonian ³⁹
232 Dnr	A-1	62 ACn 1022		Straight cephalopod in float in creek	Silurian-Ordovician boundary
				Colonial corals	probably Devonian
233 Dnr	A-1	62 ACn 1023	D1941 ⁹	Spores - poorly preserved but recognizable as about the same group as 60 ABa 687 (map number 126)	Late or Middle Devonian ³⁹
				Plant material	

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
M. Churkin, Jr. (cont) ⁶					
234 Dnr	A-1	62 ACn 1031	D1942 ⁹	Spores - poorly preserved	Devonian? ³⁹
				Plant material	
235 DOr	A-1	62 ACn 1032	6830-SD ^{7,8}	Echyropora? sp. Favosites type A Spongophyllum sp. A Xystriphyllum sp. cf. stenophyllum gorskii Bulvanker Bryozoans	early Middle Devonian (Eifellian) ³⁸
236 Pt	B-2	62 ACn 1072	22341-PC ¹¹	Cancrinella sp. Neochonetes? sp. Rhynchopora sp. Tornquistia sp.	Permian ⁴³
237 Ca	B-2	62 ACn 1081	M1026-CO ^{5,13}	Oldhamia	probably Cambrian ⁵⁰
238 Ps	B-2	62 ACn 1104		Bioclastic limestone float containing crinoid columnals, fenestellid bryozoa, and brachiopod fragments	
239 Psl	B-2	62 ACn 1113	22333-PC	Linoproductus sp. Kochiporductus? sp. (small) Indet. productoid	Permian ⁴³
240 Psl	B-2	62 ACn 1114 ¹⁰		Plant fragments	indeterminate ⁴⁰
241 Psl	B-2	62 ACn 1116 ¹⁰		Plant fragments	indeterminate ⁴⁰
242 Psl	B-2	62 ACn 1123		Plants	
243 Ps	B-2	62 ACn 1124		Plants - similar to 62 ACn 1116 (see map number 241)	late Paleozoic
244 Psl	B-1	62 ACn 1131		Crinoid columnals, brachiopods - similar to 62 ACn 1113 (see map number 239)	
245 Dnr	A-2	62 ACn 1204	D1940C ⁹	Excellent preserved spore assemblage like that in 62 ACn 1011 (see map number 231)	Late or Middle Devonian ³⁹
246 OCh	A-1	63 ACn 1492	4340-CO ⁵	Trilobites	Middle Cambrian ³⁰
247 OCh	A-1	63 ACn 1506	4353-CO ^{5,7}	Nanorthis? sp. Symphysurina cf. S. brevispicata Hintze Symphysurina cf. S. spicata (only a single immature pygidium)	earliest Ordovician ^{30,32}
248 Psl	B-2	63 ACn 1552		Crinoid, brachiopods, bryozoa, indet.	
249 Psl	B-2	63 ACn 1553		Plant stems	
250 MDf	B-2	63 ACn 1554		Plant stems	
251 Ps	B-2	63 ACn 1555		Plant stems	
252 Psl	B-2	63 ACn 1561		Crinoids	
253 Psl	B-1	63 ACn 1562		Pelecypod?	
254 Psl	B-1	63 ACn 1563	21789-PC	Indet. derbyoid Linoproductus sp. Kochiproductus sp.	Permian ⁴³
				In float: Bryozoa, fenestellid bryozoa, brachiopods, large productid brachiopods, corals	Permian-Carboniferous
255 Dnr	B-1	63 ACn 1572		Badly altered spores	Devonian ³⁹
256 Ca?	A-2	63 ACn 1603		Worm trails?	
257 Psl	B-1	63 ACn 1632		Crinoids	
258 Psl	B-1	63 ACn 1641	21790-PC	Crinoid columnals, bryozoa, pelecypod	fossils not diagnostic ⁴³

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
M. Churkin, Jr. (cont) ⁶					
259 Ps	B-1	63 ACn 1642		Fenestellid bryozoans	
260 Psl	B-1	63 ACn 1644		Bryozoa, crinoids, productid brachiopods	
261 Psl	C-1	63 ACn 1651		Crinoids	
262 Psl	C-1	63 ACn 1652		Crinoids	
263 Kk	B-2	63 ACn 1656		Inoceramus mold?	
264 KJgu	B-2	63 ACn 1663	M2137	Goniomya n. sp.?	Late Triassic-Cretaceous (Late Triassic? or Early Jurassic?) ⁴²
265 Do	B-1	63 ACn 1672		Crinoid columnals, brachiopods, bryozoa	
266 Do	B-1	63 ACn 1673		Crinoids	
267 Pt	B-1	63 ACn 1683	22342-PC ¹¹	Cancrinella sp. Megousia sp. Neochonetes spp. Neospirifer sp. Rhynchopora sp. Tornquistia sp.	Permian ⁴³
268 Pt	B-1	63 ACn 1684	22343-PC ¹¹	Cancrinella? sp. Kochiproductus? sp. Thamnosia sp. cf. T. arctica (Whitfield) Waagenoconcha sp.	Permian ⁴³
269 Pt	B-1	63 ACn 1692	22344-PC ¹¹	Cancrinella sp. Megousia sp. Neochonetes sp. Permophricodothyris? sp. Rhypidomella sp. Septacamera? sp. Waagenoconcha sp.	Permian ⁴³
270 DOr	A-1	63 ACn 1713	4307-C0	Conodont? - Possibly a spathognathodid	no age determined ⁴²
				Float of biserial graptolites	Ordovician (Llanvirnian? to early Caradocian) ⁴⁷
				Caryocaris? in chert Graptolites - Didymograptus Conodonts Tiny brachiopods?	
271 DOr	A-1	63 ACn 1714	M1005-C0 ⁷	Amplexograptus sp. Didymograptus sp. of extensiform type Glossograptus hinskii var. timbriatus (Hopkinson) Glyptograptus sp. Orthograptus cf. O. calcaratus var. Lapworth Pseudoclimacograptus Scharenbergi (Lapworth) Retiograptus geinitzianus J. Hall	Late Ordovician (early Caradocian) ³²
		63 ACn 1721	M1003-C0 ⁷	Climacograptus, sp. indet. Cryptograptus tricornis? (Carruthers) Didymograptus sp. cf. extensiform type Glossograptus, sp. indet. Glyptograptus, sp. indet. Hallograptus cf. H. etheridgei Harris Isograptus cf. J. monubriatus (T. S. Hall) Caryocaris sp.	Middle Ordovician (late Llanvirnian) ³²
272 OCh	A-1	63 ACn 1731		Bifurcate worm trails	Cambrian?
273 OCh	A-1	63 ACn 1751	4378-C0 ⁵	Trilobites, brachiopods, archaeocyathids	Middle Cambrian ³⁰

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
M. Churkin, Jr. (cont) ⁶					
274 Dm	A-1	63 ACn 1752 ⁹		Spores	Middle or Late Devonian ³⁹
275 Dnr	A-1	63 ACn 1761 ⁹		Spores	Middle or Late Devonian ³⁹
				Plant material	
276 Pt	A-1	63 ACn 1775		Small brachiopods, productid brachiopods	Permian
		63 ACn 1775A	22365-PC	Liosotella pseudohorrida (Wiman) Megousia sp. Neophricodothyris ps. Rhynchopora sp. Tornquistia cf. T. toulai (Dunbar) Two Cambrian trilobite cranidia	Cambrian-Permian ⁴³
277 Rgl	A-1	63 ACn 1776	M2138	Daonella cf. D. degeeri Bohm	Middle Triassic (Ladinian) ⁴²
278 DOr	A-1	63 ACn 1931	7031-SD	Hibbardella? sp. Hindeodella sp. Ligonodina sp. Ozarkodina? sp.	not determined ⁴⁸
279 OCh	A-1	63 ACn 1932	4382-C0 ⁵	Trilobites, brachiopods	Middle Cambrian ³⁰
280 Pt	B-2	63 ACn 2051	22334-PC ¹¹	Cancrinella sp. Megousia sp. Rhynchopora sp. Spiriferella sp.	Permian ⁴³
281 Ztl	B-2	63 ACn 2054		Fossil impressions?	
282 Pt	B-2	63 ACn 2085	22335-PC ¹¹	Horridonia sp. Megousia sp. Indet. productoid	Permian ⁴³
283 Ca	B-2	63 ACn 2091	M1027-C0	Oldhamia	probably Cambrian ⁵¹
284 Ztl	B-2	63 ACn 2101	22351-PC	Derbyoid or linoproductoid, indet.	not determined ⁴³
285 Pt	B-2	63 ACn 2111	22337-PC	No identifiable brachiopods	not determined ⁴³
				Bryozoa, indet	
286 Pt	B-2	63 ACn 2113	22340-PC ¹¹	Cancrinella sp. Megousia sp. Thamnosia sp. cf. T. arctica (Whitfield) Waagenoconcha sp.	Permian ⁴³
287 Pt	B-2	63 ACn 2121	22329-PC ¹¹	Megousia sp. Rhynchopora sp. Tournquistia sp. (Specimens are distorted)	Permian ⁴³
288 Pt	B-2	63 ACn 2124	22330-PC ¹¹	Megousia sp. Neochonetes sp. Tornquistia sp.	Permian ⁴³
289 EZtrb?	B-2	63 ACn 2126	M1028-C0 ^{5,13}	Oldhamia	probably Cambrian ⁵¹
290 Pt	B-2	63 ACn 2131	22338-PC ¹¹	Cancrinella sp. Indet. linoproductid Lissochonetes? sp. Megousia sp. Permophricodothyris sp. Rhynchopora sp. Tornquistia 2 spp.	Permian ⁴³
291 Pt	B-2	63 ACn 2132	22339-PC ¹¹	Liosotella cf. L. proboscidea Gobbett Tornquistia sp.	Permian ⁴³
292 Rgl	B-2	63 ACn 2142	M2139	Monotis scutiformis cf. M. s. pinensis Westermann	Late Triassic (early Norian) ⁴²

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
M. Churkin, Jr. (cont) ⁶					
293 Pt	B-2	63 ACn 2143	22336-PC ¹¹	Megousia? sp. (very poor)	Permian ⁴³
294 Pt	B-2	63 ACn 2144		Brachiopod couquina	
295 Rgl	B-2	63 ACn 2152		Halobia cf. H. fallax Mojsisovics	Late Triassic (early Norian) ⁴²
296 Pt	B-2	63 ACn 2156	22331-PC ¹¹	Cancrinella sp. Liosotella cf. L. pseudohorrida (Wiman) Kuvolousia cf. K. weyprechtii (Toula) Megousia sp. (very abundant) Neospirifer sp. Spiriferella sp. Waagenoconcha sp. Yakovlevia sp.	Permian ⁴³
297 Pt	B-2	63 ACn 2171	22332-PC ¹¹	Cancrinella sp. Cleiothyridina sp. Horridonia sp. Lissochonetes? sp. Megousia sp. Neochonetes sp. Neospirifer Permophricodothyris sp. Rhynchopora sp. Rhynchopora sp. cf. R. kochi Dunbar Tornquistia sp. Waagenoconcha sp.	Permian ⁴³
298 Dnr	B-2	63 ACn 2174		Plant fragments?	
299 Rgl	B-2	63 ACn 2178		Large plant stem	
300 Pt	A-2	63 ACn 2191		Fossils	Permian
301 Rgl	A-2	63 ACn 2192	M2154	Halobia, sp. indet., but of the H. ornatissima group	Late Triassic (probably late Karnian or earliest Norian) ⁴²
302 Dnr	A-2	63 ACn 2194		Plant fragments	
303 CZtrb?	A-2	63 ACn 2212	M1029-CO ^{5,13}	Oldhamia	probably Cambrian ⁵⁰
304 Dnr	B-2	63 ACn 2253		Spores - too badly metamorphosed and degraded for recognition	indeterminate ³⁹
305 Ca	B-2	63 ACn 2264		Worm? markings	
306 Kb	B-3	63 ACn 2311		Radiolaria?	
307 Pt?	A-2	63 ACn 2331	21796-PC ¹¹	Lissochonetes sp. Megousia sp. Neochonetes? sp. Pterospirifer sp. Rhynchopora sp. Tornquistia sp.	Permian ⁴³
		63 ACn 2332	21799-PC ¹¹	Krotovia? sp. Linoproductus sp. Martinia greenlandica Dunbar Megousia sp. Muirwoodia? sp. Neospirifer cf. N. striatoparadoxus (Toula) Thamnosia sp. cf. T. arctica (Whitfield) Yakovlevia mammata (Keyserling)	Permian ⁴³
		63 ACn 2341	22323-PC ¹¹	Cancrinella sp. Horridonia sp. Megousia sp. Rhynchopora sp. Spiriferella small sp. Spiriferella cf. S. saranae Verneuil Tornquistia Yakovlevia mammata (Keyserling)	Permian ⁴³

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
M. Churkin, Jr. (cont) ⁶					
307 (cont)		63 ACn 2342	22327-PC ¹¹	Cancrinella sp. Cleiothyridina sp. Horridonia sp. (small) Kuvelousia sphiva Waterhouse Megousia sp.	Permian ⁴³
308 Pt	A-2	63 ACn 2351	21788-PC ¹¹	Derbyia sp. Hustedia sp. Kochiproductus? sp. Kuvelousia sphiva Waterhouse Linoproductus sp. Megousia sp. Neospirifer cf. N. striatoparadoxus (Toula) Spiriferella sp.	Permian ⁴³
309 DOr	A-1	63 ACn 2723	M1005-SD ⁷	Monograptus tumescens Wood	Late Silurian (Ludlovian) ⁴⁷
		63 ACn 2731	M1010-SD ⁷	Limograptus? sp. Monograptus varians Wood	Late Silurian (Ludlovian) ⁴⁷
		63 ACn 2732		See 63 ABa 3231B (map number 166)	
		63 ACn 2733	M1006-SD ⁷	Monograptus, sp. indet.	Late Silurian (Ludlovian) ⁴⁷
310 Pt Rgl	A-2	63 ACn 2781A	21794-PC ¹¹	Cancrinella sp. Horridonia sp. Kuvelousia sphiva Waterhouse Lissochonetes sp. (large) Megousia sp. Neochonetes sp. Rhynchopora sp. Spiriferella? sp. Tornquistia sp. Waagenoconcha sp. Yakovlevia mammata (Keyserling)?	Permian ⁴³
		63 ACn 2781B	M2141	Halobia, sp. indet. - possibly H. ornatissima Pterioid pelecypod - probably not Monotis Indet. brachiopods	Late Triassic (late Karnian-early Norian) ⁴²
		63 ACn 2781C	M2142	Halobia, sp. indet. - possibly H. ornatissima Indet. terebratuloid brachiopod	Late Triassic (late Karnian-early Norian) ⁴²
		63 ACn 2781D	M2143	Monotis cf. M. subcircularis	Late Triassic (late Karnian-early Norian) ⁴²
		63 ACn 2781F	M2144	Halobia ornatissima Indet. ammonite	Late Triassic (late Karnian-early Norian) ⁴²
		63 ACn 2781G	M2145	Halobia sp. A	Late Triassic (late Karnian-early Norian) ⁴²
		63 ACn 2781H	M2146	Halobia ornatissima - and H. cordillerana?	Late Triassic (late Karnian-early Norian) ⁴²
		63 ACn 2781I	M2147	Halobia cf. H. cordillerana	Late Triassic (late Karnian-early Norian) ⁴²
		63 ACn 2781J	M2148	Halobia brooksi H. cf. H. septentrionalis H. sp. B	Late Triassic (late Karnian-early Norian) ⁴²
		63 ACn 2781K	M2149	Halobia brooksi H. cf. H. alaskensis - with Mojsisovicsites? H. sp. B - or H. fallax?	Late Triassic (late Karnian-early Norian) ⁴²

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
M. Churkin, Jr. (cont) ⁶					
310 (cont)		63 ACn 2781L	M2150	Halobia cordillerana H. sp. B	Late Triassic (late Karnian-early Norian) ⁴²
		63 ACn 2781M	M2151	Halobia cf. H. fallax H. cf. H. "dilatata"	Late Triassic (late Karnian-early Norian) ⁴²
		63 ACn 2781N	M2152	Halobia cf. H. "dilatata" Monotis scutiformis, subsp. indet.	Late Triassic (late Karnian-early Norian) ⁴²
		63 ACn 2781P	M2153-Mes.	Monotis scutiformis pinensis	Late Triassic (late Karnian-early Norian) ⁴²
311 Kk?	B-3	63 ACn 2822	M2063-Mes. ¹⁰	Buchia "sublaevis"	Early Cretaceous Valanginian) ²⁵
312 Kb	B-3	63 ACn 2824		Worm casts?	
313 Kb	B-3	63 ACn 2825	M2064 ¹⁰	Inoceramus sp.	Late Cretaceous (late Neocomian?) ²⁵
Collections and observations of A. Aadland ⁶					
314 Dnr	A-2	62 AA 251C	D1936A-SD ⁹	Spores - essentially similar to 60 ABa 687 (map number 126), but less well-preserved)	Middle or Late Devonian ³⁹
		62 AA 281	D1936B-SD ⁹	Spores - badly corroded, similar to 60 ABa 687 (map number 126)	Middle or Late Devonian ³⁹
315 Dnr	A-2	62 AA 311A	D1937A-SD ⁹	Spores - well preserved and abundant. All remarks for age and composition under locality 60 ABa 687 (map number 126) apply to this sample	Middle or Late Devonian ³⁹
		62 AA 311B	D1937B-SD ²	Spores - basically the same flora as in 62 ABa 687 (map number 126) but fewer forms recognizable and much poorer preservation	Middle or Late Devonian ³⁹
316 Psl	B-2	62 AA 401		Productid brachiopod	
Collections of R.J. Ross ⁶					
317 OCh	A-1	62 RJR 1	1074-C0	Caryocaris sp. Climacograptus sp. Glyptograptus sp.	probably Ordovician ³⁵
		62 RJR 2	1075-C0	Climacograptus sp. Dicellograptus cf. D. sextana var. perarilis Ruedemann	Ordovician (Llanvirnian-Caradocian) ³⁵
		62 RJR 3	D191-SD	Monograptus cf. M. uncinatus Tullbert Monograptus dubius (Suess)	Late Silurian (late Wenlockian-early Ludlovian) ³⁵
318 OEjr	A-1	62 RJR 4	6317-SD	Metriophyllid horn coral cf. Enteralasma sp.	Silurian or Devonian ³⁸
			D1071-C0 ⁵	Strophomenid brachiopod, externally like Megamyonia Rhynchonellid brachiopod, externally like Rhynchotrema Rhynchonellid brachiopod, externally like Rostricellula Illaenid trilobite (fragmentary cranidium)	Middle or Late Ordovician ³²

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
R.J. Ross (cont) ⁶					
318 (cont)				Harpid or cryptolithid trilobite (portion of the pitted frill) Ostracod	
			D1071-C0 ¹²	Grewinkia sp.	Middle? or Late Ordovician ³⁸
319 O€jr	A-1	62 RJR 5	D1072-C0 ⁵	Ptychopleurella cf. P. lapworthi (Davidson) Dicoelosia jonesridgensis Ross and Dutro Camarella? sp. Rhynchotrema? sp. Cyclospira cf. C. glansfagea Cooper and Kindle Cyclospira? sp. Catazyga homeospiroides Whitfieldella? sp. Anoptambonites cf. A. grayac (Davidson) Diambonia cf. D. anatoli Spjeldnaes Diambonia sp. 1 Diambonia sp. 2 Xenambonites cf. X. revelatus Williams Ptychoglyptus? cf. P.? pauciradiatus Reed Christiania sp.	Middle or Late Ordovician ^{25,41}
320 O€jr	A-1	62 RJR 6	D1073-C0	Conodiscus? Conotreta? or Acrotreta?	Late Cambrian? to Early Ordovician ³²
			3837-C0 ⁵	Conodiscus burlingi	latest Cambrian (Trempealeuan) ³⁰
321 O€jr	A-1	62 RJR 7	3833-C0 ^{3,5}	Rasettia cf. R. capax (Billings) Richardsonella nuchastria n. sp.	latest Cambrian (Trempealeuan) ³⁰
		62 RJR 8	3834-C0 ^{3,5}	Hungaia sp. Pseudagnostus sp. Pseudosaukia cf. P. brevifrons (Clark) Richardsonella nuchastria n. sp.	latest Cambrian (Trempealeuan) ³⁰
322 O€jr	A-1	62 RJR 9	3835-C0 ^{3,5}	Briscoia septentrionalis Kobayashi Lauzonella? tripunctata (Kobayashi) Pseudagnostus sp. Richardsonella? sp. 2 Tatonaspis alaskensis Kobayashi	latest Cambrian (Trempealeuan) ³⁰
323 O€jr	A-1	62 RJR 10	3836-C0 ⁵	Dokimocephalidae Conospidae	Late Cambrian? (Franconian?) ³⁰
324 Dnr?	A-1	62 RJR 11		Vascular plant remains?	probably no older than Middle Silurian ⁴⁰
325 Do	A-1	62 RJR 16		Bryantodus sp. Falcodus? sp. Hibbardella? sp. Hindeodella sp. Ligonodina sp. Ozarkodina sp. Palmatolepis? sp. Polygnathellus sp. Polygnathus linguiformis Polygnathus sp. Synprioniodina sp.	Early Devonian ⁴⁸
326 Do	A-1	62 RJR 17	6320-SD ⁸	Favosites sp. Xystriphyllum sp. cf. Stenophyllum devonicum Bulvanker	early Middle Devonian (Eifelian) ³⁸
Collections and observations of D. Giles ⁶					
327 O€h	A-1	63 AGs 13	4339-C0 ^{3,5}	Prohedinia breifrons Semisphacrocephalus latus n. sp.	Middle Cambrian ³⁰
328 Psi	B-2	63 AGs 21		Crinoid stems in float	

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
D. Giles (cont) ⁶					
329 Psl	B-2 (A)	63 AGs 41		Straight cephalopod in shale	
330 Psl	B-2	63 AGs 51		Plant fragments	
331 Pt	B-1	63 AGs 102	22346-PC ¹¹	Cleiothyridina? sp. Derbyia? sp. Echinaria? sp. Waagenoconcha sp. Yakovlevia sp.	Permian ⁴³
332 Pt	B-1	63 AGs 113		Brachiopod or pelecypod fragments	
333 Pt	B-1	63 AGs 121	22347-PC ¹¹	Large Lissochonetes? sp.	Permian ⁴³
334 Pt	B-1	63 AGs 122		Brachiopods	
335 Pt	B-1	63 AGs 124	22348-PC ¹¹	Lissochonetes sp. Thamnosia sp. Waagenoconcha sp. Yakovlevia sp.	Permian ⁴³
336 Pt	B-1	63 AGs 131A	22349-PC ¹¹	Cancrinella? sp. Indet. linoproductid Indet. spiriferoid	indeterminate ⁴³
		63 AGs 131B	22350-PC ¹¹	Cancrinella? sp. Waagenoconcha sp.	likely Permian ⁴³
337 OEjr	B-1	63 AGs 206		Coral?	
338 OEjr	B-1	63 AGs 207		Coral?	
339 EZtrb?	A-2	63 AGs 344	M1030-C0 ⁵	Oldhamia	probably Cambrian ⁵¹
340 Dnr	A-2	63 AGs 352		Plant fragments	
341 Dnr	A-2	63 AGs 361		Plant fragments	
Collection of D.B. Stone					
342 EZtbs	A-3		220052 ¹⁵	Flatworm: Brabbinthes churkini	
Collections of R.B. Blodgett					
343 OEjr	A-1	section 1 ¹⁶		Brachiopods	Late Ordovician (Ashgillian)
				Graptolites	Late Silurian (mid-Wenlockian) ⁵⁵
				Megafossils	Early Devonian (Emsian)
344 Do	A-1	section 2 ¹⁶		Conodonts	Early Devonian (early Pragian to late Emsian) ⁵⁶
				Brachiopods	Early Devonian (early Pragian to late Emsian) ⁵³
345 Do?	A-1	Univ. of Alaska Museum locality A933 ¹⁷		Rugosa: Xystriphyllum sp. B Brachiopoda: Carinagypa aseptata Atrypa sp. B Atrypa sp. Perry, Klapper, and Lenz, 1974 Spinatrypa (Invertrypa) sp. Echinodermata: Crinoid columnals	late Early Devonian ⁵³

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
R.B. Blodgett (cont)					
346 Do	A-1	Section C ¹⁷ (Univ. of Alaska Museum localities A938-A940)		Tabulata: Favosites spp. Rugosa: Spongophyllum sp. A Embolophyllum sp. Xystriphyllum sp. cf. Stenophyllum devonicum Acanthophyllum (Acanthophyllum) sp. or spp. Brachiopoda: Dalejina? sp. Phragmostrophia cf. P. merriami 'Chonetes' sp. A 'Chonetes' sp. B Elythyna cf. E. Kingi Trilobita: Lacunoporasps n. sp. Otarion sp. Leonaspis sp. Echinodermata: Gasterocoma? bicauli Crinoid columnals Conodontophorida: Panderodus sp.	late Early Devonian ⁵³
347 Do	A-1	Univ. of Alaska Museum locality A1055 ¹⁷		Stromatoporoidae: Trupetostroma sp. Rugosa: Xystriphyllum sp. cf. Stenophyllum devonicum Acanthophyllum (Acanthophyllum) sp. or spp. Brachiopoda: Carinagypa aseptata Glossinulina khodalevichi Corvinopugnax sp. Rostroconchia: Conocardium sp. Echinodermata: Crinoid columnals	late Early Devonian ⁵³
348 Do	A-1	Section E ¹⁷ (Univ. of Alaska Museum localities A1056-A1066)		Tabulata: Favosites spp. Thamnopora sp. Rugosa: Spongophyllum sp. A Spongophyllum sp. B Xystriphyllum sp. cf. Stenophyllum devonicum Acanthophyllum (Acanthophyllum) sp. or spp. Brachiopoda: Desquamatia cf. D. khavae Mimatrypa sp. Gastropoda: undet. gastropod Trilobita: Cheirurus (Crotacephalus) sp. Echinodermata: Crinoid columnals	late Early Devonian ⁵³
349 Dm	B-2	Section G ¹⁷ (Univ. of Alaska Museum localities A1201-A1212)		Tabulata: Thamnopora sp. Rugosa: Acanthophyllum (Acanthophyllum) sp. or spp. Brachiopoda: Atrypa spp. Spinatrypa sp. A Spinatrypa sp. B Spinatrypa sp. C Spinatrypa spp. Vagrana sp. Carinata lowtherensis undet. atrypid Elythyna cf. E. kingi Gastropoda: Euomphalus sp.	late Early Devonian ⁵³

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
R.B. Blodgett (cont)					
349 (cont)				Pelecypoda: Cypricardinia sp. Trilobita: Cheirurus (Crotacephalus) sp. Echinodermata: Gasterocoma? bicauli Crinoid columnals Tentaculitida: Turkestanella sp. Conodontophorida: Panderodus sp. Pandorinellina exigua exigua Bryozoans Vertebrata: Fish bones and teeth	
350 Do	A-1	Univ. of Alaska Museum localities A1213,A1214 ¹⁷		Stromatoporoidea: Trupetostroma sp. Tabulata: Favosites spp. Rugosa: Xystriphyllum sp. cf. Stenophyllum gorskii Brachiopoda: Carinagypa aseptata Glossinulina khodalevichi Echinodermata: Crinoid columnals	late Early Devonian ⁵³
Collections of J.G. Clough					
351 Do	A-1	locality 2 ¹⁸		Girvanella (fossil algae)	Cambrian-Cretaceous
				Renalcis (fossil algae)	Cambrian-Devonian
352 Do	A-1	locality 3 ¹⁸		Girvanella	Cambrian-Cretaceous
				Renalcis	Cambrian-Devonian
Collections and observations of J.H. Dover ¹⁹					
353 MDf	A-1	82 ADo 401		Plant fragments	
354 Dm	A-1	82 ADo 405		Radiolaria?	
355 DOr	B-1	82 ADo 409		Graptolites	
356 DOr	B-1	82 ADo 410		Graptolites	
357 Pt	A-2	82 ADo 424		Brachiopod	
358 Ca	A-2	82 ADo 425		Oldhamia? Worm burrows	
359 Dm	A-1	82 ADo 428		Radiolarian chert	
360 Psl	C-1	84 ADo 327		Crinoid stem	
		84 ADo 372E	26944-PC	Redeposited Famennian conodonts: 1 incomplete Pa element of Palmatolepis glabra Ulrich and Blaser, subsp. indet. 1 incomplete Pa element of Palmatolepis minuta Branson and Mehl, subsp. indet. 2 incomplete Pa elements of Polygnathus, sp. indet. of Famennian morphotype Redeposited Early Mississippian conodonts: 1 incomplete Pa element of Pseudopolygnathus, sp. indet. 1 incomplete Pa element of Siphonodella sandbergi Klapper Redeposited and/or indigenous Late	Late Mississippian (no older than latest Chesterian) ⁵²

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
J.H. Dover (cont) ¹⁹					
360 (cont)				Mississippian conodonts: 23 Pa elements of <i>Gnathodus bilineatus</i> (Roundy) 10 Pa elements of <i>Gnathodus girtyi</i> Hass 1 Pa element of <i>Rhachistognathus</i> , sp. indet. 1 M element +100 indet. bar, blade, and platform fragments	
361 Ps	C-1	84 ADo 330		Crinoids, shell fragments?	
		84 ADo 330D	29645-PC	Redeposited Famennian conodonts: 1 incomplete Pa element of <i>Palmatolepis glabra</i> Ulrich and Bassler, subsp. indet. Redeposited Kinderhookian conodonts: 2 incomplete Pa elements of <i>Siphonodella</i> , sp. indet. Redeposited Osagean conodonts: 1 incomplete P element of <i>Doliognathus</i> , sp. indet. Redeposited and/or indigenous latest Meramecian to very earliest Morrowan conodonts: 6 Pa elements of <i>Gnathodus bilineatus bilineatus</i> (Roundy)	Late Mississippian (no older than late Meramecian) ⁵²
362 Psl	B-1	84 ADo 333		Crinoids	
		84 ADo 333A	29646-PC	Redeposited Devonian conodonts: 2 P elements of <i>Icriodus</i> spp. of Middle to Late Devonian morphotype 1 Pa element of <i>Palmatolepis marginifera</i> Holms 2 Pa elements of <i>Palmatolepis Quadrantinodosa</i> Branson and Mehl 2 Pa elements of <i>Palmatolepis</i> , sp. indet. 3 incomplete Pa elements of <i>Polygnathus</i> , spp. indet. of Middle-Late Devonian morphotype Redeposited Late Devonian-Early Mississippian conodonts: 1 incomplete Pa element of <i>Bispathodus? stabilis</i> (Branson and Mehl) 1 Pa element of <i>Polygnathus communis</i> Branson and Mehl Redeposited Early Mississippian conodonts: 1 Pa element of <i>Gnathodus punctatus</i> (Cooper) 1 incomplete Pa element of <i>Siphonodella</i> , sp. indet. of Late Kinderhookian morphotype Redeposited and/or indigenous late Late Mississippian to Early Pennsylvanian conodonts: 5 Pa elements of <i>Gnathodus girtyi</i> Hass	no older than Late Mississippian (Chesterian) ⁵²
363 Do	B-1	84 ADo 349A	11155-SD	3 <i>Belodella triangularis</i> (Stauffer) s.f. elements 28 <i>Panderodus</i> sp. and <i>Neopanderodus</i> sp. elements 1 Pa element of <i>Polygnathus serotinus</i> (Telford) 4 Pa element fragments of <i>Polygnathus</i> sp. indet. 30 indet. bar, blade, platform, and simple cone fragments	Early/Middle Devonian boundary ⁵²
364 CZtrb?	B-2	84 ADo 364		Oldhamia	
365 Ytsl	B-1	84 ADo 368		Algal mats Stromatolites	
366 Ytsh	B-1	84 ADo 369		Stromatolites	
367 Dm	B-1	84 ADo 374		Radiolaria	

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
J.H. Dover (cont) ¹⁹					
368 Dm	B-1	84 ADo 380A		Radiolaria?	
369 Dm	B-1	84 ADo 380B		Radiolaria?	
370 O€jr	B-1	84 ADo 382		Archaeocyathus	
371 €a	B-2	85 ADo 202		Oldhamia	
372 Pt	B-2	85 ADo 218		Brachiopods, productid brachiopods, sponges?	
		85 ADo 218B	29854-PC	1 incomplete Pa element of Neogondolella serrata serrata (Clark and Ethington) 19 incomplete Pa elements of Neogondolella idahoensis (Youngquist, Hawley, and Miller) or N. phosphoriensis (Youngquist, Hawley, and Miller)	mid-Permian (latest Leonardian to early Guadalupian) ⁵²
373 Do	A-1	85 ADo 223		Colonial and horn corals, brachiopods, gastropods?	
374 Dm	A-1	85 ADo 224		Small brachiopods	Ordovician-Permian ⁵³
				Radiolarian chert	
375 Ps?	A-2	85 ADo 225A		Radiolarian chert clasts in conglomerate	
376 Dnr	A-2	85 ADo 227		Radiolarian chert clasts in conglomerate	
377 TKs	B-1	85 ADo 232		Plant (leaf?) fragment	
Collections of C E. Kirschner and P. DiBona ²⁰					
378 TKs	A-3	83 CEK 6		Palynomorphs: undifferentiated Bisaccates	indeterminate ⁵⁴
		83 CEK 7		undifferentiated Bisaccates Lycopodiumsporites sp. Deltoidospora juncta Gleicheniidites senonicus	Possible Late Jurassic-Early Cretaceous ⁵⁴ may be reworked
		83 PAD 155		Palynomorphs: Deltoidospora sp. undifferentiated Bisaccates Multicellaesporites sp. Lycopodiumsporites sp.	indeterminate ⁵⁴
379 TKs	A-3	83 CEK 9		Palynomorphs: Betulaceae undifferentiated Bisaccates Pesavis tagluensis	Paleocene-Eocene, probable Eocene ⁵⁴
380 TKs	A-3	83 CEK 11		Palynomorphs: undifferentiated Bisaccates Pesavis tagluensis Alnipollenites sp. Osmundacidites sp. Caryapollenites sp. (small)	Paleocene-Eocene, probable Eocene ⁵⁴
381 TKs	A-3	83 CEK 13		Palynomorphs: Ancyrospora sp. Hystricosporites sp. Kraeuselisporites sp. undifferentiated Bisaccates	indeterminate ⁵⁴
382 TKs	A-3	83 PAD 144		Palynomorphs: Lycopodiumsporites sp. Laevigatosporites sp. Betulaceae Tricolpites sp.	probable Tertiary ⁵⁴
		83 PAD 145		Palynomorphs: Laevigatosporites sp. Lycopodiumsporites sp. Sphagnumsporites sp. undifferentiated Bisaccates	indeterminate ⁵⁴
		83 PAD 146		Palynomorphs: Taxodiaceae Sphagnumsporites sp. undifferentiated Bisaccates Aquilapollenites sp. Wodehouseia spinata	probable Late Cretaceous (Maestrichtian?) ⁵⁴ may be reworked

Map number-map unit	Location ¹	Field number	USGS collection number	Fossils	Fossil age
C.E. Kirschner and P. DiBona (cont) ²⁰					
382 (cont)		83 PAD 147		Palynomorphs: Alnipollenites sp. undifferentiated Bisaccates	Tertiary-Quaternary ⁵⁴
		83 PAD 158		Palynomorphs: undifferentiated Bisaccates Osmundacidites sp. Lycopodiumsporites sp. Echinatisporites sp.	indeterminate ⁵⁴
		83 PAD 159		Palynomorphs: Deltoidospora sp. Laevigatosporites sp. undifferentiated Bisaccates	probable Late Cretaceous (Maestrichtian?) ⁵⁴ may be reworked
383 TKs	A-3	83 PAD 148		Palynomorph: Osmundacidites sp.	indeterminate ⁵⁴
		83 PAD 149		Palynomorphs: Taxodiaceae undifferentiated Bisaccates Deltoidospora sp. Pesavis tagluensis	Paleocene-Eocene probable Eocene ⁵⁴
		83 PAD 150		Palynomorphs: Taxodiaceae Pesavis tagluensis undifferentiated Bisaccates Alnipollenites sp. Aquilapollenites sp. Diporites sp.	Paleocene-Eocene probable Eocene ⁵⁴
		83 PAD 153		Palynomorphs: undifferentiated Bisaccates Betulaceae Multicellaesporites sp. Punctodiporites sp.	Eocene ⁵⁴
Collections of N.M. Savage					
384 Dm	A-1	locality 3 ²¹	371763	Eognathodus sulcatus kindlei Lane and Ormiston, 1979	late Early Devonian
			371764	Polygnathus pireneae Boersman, 1974	
				Monograptus yukonensis cf. fangensis Jaeger and Stein, 1969 form close to Monograptus craignensis Jaeger, 1970 possible new form approaching both Monograptus craignensis and Monograptus pacificus Jaeger, 1970 possible new form resembling Monograptus telleri Lenz and Jackson, 1971	

Location

- ¹A-1, A-2, A-3, B-1, B-2, B-3, C-1, C-2--1:63,360-scale quadrangles within the Charley River 1:250,000 quadrangle; (A)--approximately located; (B)--approximately located; age incompatible with that of other fossil collections in nearby localities in same map unit

References cited

- ²Fossil information published in one or more of the following:
Mertie, J.B., 1930, Geology of the Eagle-Circle District, Alaska: U.S. Geological Survey Bulletin 816.
_____, 1932, the Tatonduk-Nation District, Alaska: U.S. Geological Survey Bulletin 836-E.
_____, 1937, The Yukon-Tanana Region, Alaska: U.S. Geological Survey Bulletin 872.
- ³Palmer, A.R., 1968, Cambrian trilobites of east-central Alaska: U.S. Geological Survey Professional Paper 559-B, 115 p.
- ⁴Gordon, Mackenzie, Jr., 1957, Mississippian Cephalopods of Northern and Eastern Alaska: U.S. Geological Survey Professional Paper 283, 61 p., 6 pls.
- ⁵Brabb, E.E., 1967, Stratigraphy of the Cambrian and Ordovician rocks of east-central Alaska: U.S. Geological Survey Professional Paper 559-A, 30 p.
- ⁶Fossil information from unpublished field notes and maps of E.E. Brabb, M. Churkin, Jr., and co-workers, U.S. Geological Survey, 1960-67, from U.S. Geological Survey fossil reports, and, where noted, from published sources.
- ⁷Churkin, Michael, Jr., and Brabb, E.E., 1965, Ordovician, Silurian, and Devonian biostratigraphy of east-central Alaska: American Association Petroleum Geologists Bulletin, v. 49, no. 2, p. 172-185.
- ⁸Oliver, W.A., Merriam, C.W., and Churkin, Michael, Jr., 1975, Ordovician, Silurian, and Devonian corals of Alaska: U.S. Geological Survey Professional Paper 823-B, p. 13-44, 25 pls.
- ⁹Brabb, E.E., and Churkin, Michael, Jr., 1967, Stratigraphic evidence for the Late Devonian age of the Nation River Formation, east-central Alaska, in Geological Survey Research 1967: U.S. Geological Survey Professional Paper 575-D, p. D4-D15.
- ¹⁰Brabb, E.E., 1969, Six new Paleozoic and Mesozoic formations in east-central Alaska: U.S. Geological Survey Bulletin 1274-I, 26 p.
- ¹¹Brabb, E.E., and Grant, R.E., 1971, Stratigraphy and Paleontology of the Revised-type Section for the Tahkandit Limestone (Permian) in East-Central Alaska: U.S. Geological Survey Professional Paper 703, 25 p., 2 pls.
- ¹²Tschudy, B.D., 1969, Species of Aquilapollenites and Fibulapollis from two Upper Cretaceous localities in Alaska, in Contributions to Paleontology, 1969: U.S. Geological Survey Professional Paper 643, p. A1-A15.
- ¹³Churkin, Michael, Jr., and Brabb, E.E., 1965, Occurrence and stratigraphic significance of Oldhamia, a Cambrian trace fossil, in east-central Alaska, in Geological Survey research 1965: U.S. Geological Survey Professional Paper 525-D, p. D120-D124.
- ¹⁴Scott, R.A., and Doherty, L.I., 1967, Palynological evidence for Devonian age of the Nation River Formation, east-central Alaska, in Geological Survey Research 1967: U.S. Geological Survey Professional Paper 575-B, p. B45-B49.
- ¹⁵Allison, Carol W., 1975, Primitive fossil flatworm from Alaska; new evidence bearing on ancestry of the Metazoa: Geology (Boulder), v. 3, no. 11, p. 649-652.
- ¹⁶Blodgett, R.B., Potter, A.W., and Clough, J.G., 1984, Upper Ordovician-Lower Devonian biostratigraphy and paleoecology of the Jones Ridge-Squaw Mountain area, east-central Alaska [abs.]: Geological Society of America Bulletin, v. 16, no. 5, p. 270.
- ¹⁷Blodgett, R.B., 1978, Biostratigraphy of the Ogilvie Formation and limestone and shale member of the McCann Hill Chert (Devonian), east-central Alaska and adjacent Yukon Territory: University of Alaska, Fairbanks, Alaska, Master's thesis.
- ¹⁸Clough, J.G., 1980, Fossil algae in Lower Devonian limestones, east-central Alaska: Alaska Division of Geological and Geophysical Surveys Geologic Report 63, p. 19-21.
- ¹⁹Fossil information from unpublished field notes and maps of J.H. Dover, U.S. Geological Survey, 1982-1985, and from U.S. Geological Survey fossil reports.
- ²⁰Fossil information from unpublished field notes and maps of C.E. Kirshner and P. DiBona, U.S. Geological Survey, 1983.
- ²¹Savage, N.M., Blodgett, R.B., and Jaeger, Hermann, 1986, Conodonts and associated graptolites from the late Early Devonian of east-central Alaska and western Yukon Territory: Canadian Journal of Earth Sciences, v. 22, p. 1880-1883.

Fossil age determinations by U.S. Geological Survey, except where noted

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