

Killik Quad Paleo Data

MAP #	FIELD #	LATITUDE	LONGITUDE	FOSSIL TYPE	AGE	ID BY	LOCALITY	LITHOLOGIC UNIT	SOURCE	FOSSIL SPECIES	C.A.I.	TEMP(C)	ALLOCHTHON	SAME AS
EARLY CRETACEOUS ROCKS, COQUINOID LIMESTONE														
	83ADI-7	?		Pelecypod	Early Cretaceous	E		Buchia coquina bed	11	Buchia				
	83ASK-157	?		Pelecypod	Early Cretaceous	E		Buchia coquina bed	11	Buchia				
	83AMu6-4	68 31.9'	154 21.1'	Pelecypod	Early Cretaceous (Valanginian)	G	W. side of Travelair Ck.	Coquinoid Limestone	16	Buchia sublaevis (Keyserling)				
	83Bo66	68 32.2'	155 43.3'	Pelecypod	Early Cretaceous (Valanginian)?	H	Otuk Ck. ref. section	Coquinoid Ls and Shale unit	26	Buchia sublaevis				
CRETACEOUS ROCKS,														
	89IM17	?		Ammonite	Cretaceous (Early Cenomanian to early Late Cenomanian)	F		top of Gilead Sandstone	14	Inoceramus dunveganensis (McLearn)				
	89AMu29-2	?		Ammonite	early Late Cretaceous (Turonian)	F	Gilead Ck.		14	likely Mytiloides labiatus (Schlotheim) group				
	83Mu46-1	68 20.7'	154 50.9'	Pelecypod	Early Cretaceous (Late Berriasian to Early Valanginian)	G	W. fork Kurupa River	wacke	15	Buchia keyserlingi (Lahusen), Buchia sublaevis (Keyserling)				
	83Mu5	68 28.5'	154 13.9'	Pelecypod	probably Early Cretaceous (Early Valanginian)	G	E. Travelaire Ck.	wacke	15	Buchia sp., possibly Buchia sublaevis (Keyserling), poorly preserved				
	83Bo128	68 31.9'	154 42.1'	Pelecypod	Early Cretaceous (Early Valanginian)	G	E. bank Heather Ck.	Okpikruak? silt or sand	15	Buchia sublaevis (Keyserling)				
	83Bo90	68 32.8'	154 42.4'	Pelecypod, Annelid	Early Cretaceous (Early Valanginian)	G	Heather Ck.	burrowed section	15	Buchia sublaevis (Keyserling), worm feeding tracks				
	83Bo1	68 29.4'	154 29.9'	Pelecypod	Early Cretaceous (Valanginian)	G	Imnaitchiak Ck.		15	Buchia crassicolis solida (Lahusen)				
	75Mu72	68 38.9'	154 06.3'	Pelecypod	possibly Early Cretaceous?	G	S. side of Pingaluligit Mtn.	probably from Torok-Fortress Mtn. Fmn.	15	???Buchia sublaevis (Keyserling), probably not				
	75AMu71	68 40.4'	154 08.0'	Pelecypod	indeterminant	G	Pingaluligit Mtn.		15	indeterminant pelecypod				
	75AMu47-1	68 29.7'	155 51.2'	Pelecypod	probably Cretaceous	G	Ileriak Ck.	Okpikruak Fmn.?	15	Inoceramus fragments				
	75AMu47-1	68 29.7'	155 51.2'	Palanomorph	Cretaceous	P	Ileriak Ck.		33	undifferentiated bisaccates, oligosphaeridium complex				
	M6389	68 35.0'	154 32.0'	Molluscs	Cretaceous?	M.G	Upper Oolamnagavik River	Okpikruak Fmn.	35	Entolium? sp., indet.				
JURASSIC ROCKS,														
	85AAI080b	68 21.8'	154 23.6'	Radiolarian	Jurassic (??)	C	Below mtn. front west of Akmalik Ck.	Upper Akmalik Chaos	1				Endicott Mtns./ Picnic Creek	
CRETACEOUS TO JURASSIC ROCKS,														
	83ADI-3	68 31.9'	154 29.9'	Molluscs	probably Early Cretaceous Jurassic age possible	E	Imnaitchiak Ck.		11	Buchia, perhaps B. Crassicolis, may be Jurassic if different species				
	83ADI-3	68 31.9'	154 29.9'	Molluscs	Late Jurassic (Late Oxfordian to Early Kimmeridgian)	?	Imnaitchiak Ck.		17	Buchia concentrica (Sowerby)				83ADI3 above
	75AMu46-1	68 32.5'	155 38.3'	Palanomorphs	uncertain, Jurassic and/or Cretaceous, probably K	Q	Otuk Ck.		34	Bathysiphon sp., Saccammina? sp., megaspores				
	75AMu46-2	68 32.5'	155 38.3'	Palanomorphs	uncertain, Jurassic and/or Cretaceous, probably K	Q	Otuk Ck.		34	Bathysiphon sp., Saccammina? sp., megaspores				75AMu46-1
	75AMu51	68 28.2'	155 59.0'	Palanomorphs	Early Cretaceous (Neocomian) and/or Upper Jurassic, probably Neocomian	Q	Ileriak Ck.		34	Bathysiphon sp., Saccammina sp., quartz pebbles				
	75AMu51-1	68 28.2'	155 59.0'	Palanomorphs	Early Cretaceous (Neocomian)	Q	Ileriak Ck.		34	Lenticulina toarcense, Bathysiphon sp.,				75AMu51

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					ian) and/or Upper Jurassic, probably Neocomian					Haplophragmoides sp., quartz pebbles				
JURASSIC TO TRIASSIC ROCKS, Blankenship Member of the Otuk Formation														
83Bo8	68 32.2'	155 43.3'	Foraminifera	Jurassic?	J	Otuk Ck.	Otuk Fmn.	22	Nodosaria aphelolocula (Tappan), Nodosaria setulosa (T), Dentalina cf. D. exilis (Franke)					83Bo8 below
83Bo64	68 32.2'	155 43.3'	Radiolarian	Lower to Middle Jurassic?	B	Otuk Ck. ref. section	Blankenship Member, Otuk Fmn.	26	Nasselaria indet.					83Bo66
83Bo54	68 32.2'	155 43.3'	Radiolarian	Lower to Middle Jurassic?	B	Otuk Ck. ref. section	Blankenship Member, Otuk Fmn.	26	Nasselaria indet.					83Bo66
83Bo44	68 32.2'	155 43.3'	Pelecypod	Lower to Middle Jurassic?	H	Otuk Ck.	Blankenship Member, Otuk Fmn.	26	Otopiria aff. O. tailleuri					
83Bo39	68 32.2'	155 43.3'	Cephalopod	Lower to Middle Jurassic?	H	Otuk Ck.	Blankenship Member, Otuk Fmn.	26	belemnite indet.					83Bo44
83Bo265	68 32.0'	154 43.0'	Radiolarian	Lower to Middle Jurassic?	B	Heather Ck.	Lower Blankenship Mbr., Otuk Fmn.	26	Capnuhosphaera sp., Paronaella sp., Pseudoheliodiscus sp., Sarla sp.					83Bo262
83Bo267	68 32.0'	154 43.0'	Radiolarian	Lower to Middle Jurassic?	B	Heather Ck.	Lower Blankenship Mbr., Otuk Fmn.	26	Triassocampe nova					83Bo262
83Bo278	68 32.0'	154 43.0'	Radiolarian	Lower to Middle Jurassic?	B	Heather Ck.	Blankenship Mbr., Otuk Fmn.	26	Capnuhosphaera sp., Pseudoheliodiscus sp., Pseudosaturnumiforma? sp., Sarla sp.					83Bo262
83Bo276	68 32.0'	154 43.0'	Radiolarian	Lower to Middle Jurassic?	B	Heather Ck.	Blankenship Mbr., Otuk Fmn.	26	Droitus? sp., Ferresium? sp., Laxtorum? sp., Livarealla sp., Paronaella sp., Pseudoheliodiscus sp., Sarla cf. S. vetusta					83Bo262
83Bo274	68 32.0'	154 43.0'	Radiolarian	Lower to Middle Jurassic?	B	Heather Ck.	Blankenship Mbr., Otuk Fmn.	26	Droitus? sp., Paronaella sp., Sarla sp.					83Bo262
83Bo39	68 32.2'	155 43.3'	Belemnoid	? Jurassic	H	E. side Otuk Ck.	Otuk Fmn.?	20	Belemnoid, not objectively datable					83Bo12
83Bo44	68 32.2'	155 43.3'	Pelecypod	Middle to upper Lower Jurassic	H	E. side Otuk Ck.	Otuk Fmn.?	20	Otapiria aff. O. tailleuri					83Bo12
83Bo45	68 32.2'	155 43.3'	Pelecypod	Middle to upper Lower Jurassic	H	E. side Otuk Ck.	Otuk Fmn.?	20	Otapiria aff. O. tailleuri					83Bo12
83AKy2s-0.2	?	?	Radiolarian	Late Jurassic (Hettangian to Late Sinemurian)	B,N	Akmalik Creek	Otuk Fmn.	27	Canoptum dixonii (Pessagno and Whalen, 1982), Droitus laseekensis (P and W, 1982), Canutus rockfishensis (P and W, 1982), Livarella densiporata (Kozur and Mostler, 1981)					83AKy2s-48.2 see below
75ATr40-15'	68 32.0'	155 43.0'	Pelecypod?	indeterminant	H		Otuk, Blankenship Mbr.?	36	very questionable Inoceramus lucifer?					
83TI 1-6	68 31.3'	154 28.6'	Pelecypod	probably Triassic(G) or Lower Jurassic (Sinemurian)(H)	G,H	Imnaitchiak Ck.	Okpikruak Fmn.(G) or Otuk Fmn. (Blankenship Mbr.)(H)	15,18	Monotis sp.(G), or Otapiria cf. O. tailleuri(H)					
JURASSIC TO TRIASSIC ROCKS, Limestone Member of the Otuk Formation														
75ATr41	68 32.2'	155 43.3'	Molluscs	Late Triassic (Late Norian)	H	NE side middle Otuk Ck.	Otuk Fmn., w/in 1m of contact of Blankenship	36	Monotis, either M. Subcircularis or M. Ochotica					
75AMu57-1	68 32.2'	155 43.1'	Molluscs	probable Triassic	P	Otuk Ck.	Otuk Fmn. dark brown shelly argillaceous ls	33	no forams, Monotis/Halobia fragments					
75AMu57-3	68 32.2'	155 43.1'	Molluscs	probable Triassic	P	Otuk Ck.	Otuk Fmn. dark brown shelly partially silic. argillaceous limestone	33	no forams, Monotis/Halobia fragments					75AMu57-1
75AMu57-5	68 32.2'	155 43.1'	Molluscs	probable Triassic	P	Otuk Ck.	Otuk Fmn. dark brown shelly argillaceous ls	33	no forams, Monotis/Halobia fragments					75AMu57-1

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75AMu57-7	68 32.2'	155 43.1'	Molluscs	probable Triassic	P	Otuk Ck.	Otuk Fmn. dark brown shelly argillaceous ls	33	no forams, Monotis/Halobia fragments				75AMu57-1
75AMu57-9	68 32.2'	155 43.1'	Molluscs	probable Triassic	P	Otuk Ck.	Otuk Fmn. dk. brown-blk shelly argillaceous ls	33	no forams, Monotis/Halobia fragments				75AMu57-1
75AMu57-18	68 32.2'	155 43.1'	Molluscs	probable Triassic	P	Otuk Ck.	Otuk Fmn. dk. brown-blk shelly argillaceous ls	33	no forams, Monotis/Halobia fragments				75AMu57-1
75AMu57-18	68 32.2'	155 43.1'	Palanormorph	possibly Late Triassic (Norian?-Rhaetian?)	P	Otuk Ck.	Otuk Fmn. dk. br-black shelly argillaceous ls	33	Suessia swabiana?, single, Tasmanaceae?				75AMu57-18 & 75AMu57-1
75AMu57-32	68 32.2'	155 43.1'	Foraminifera, Molluscs	probable Triassic	P	Otuk Ck.	Otuk Fmn. black shelly argillaceous limestone	33	Nodosaria larina?, Monotis/Halobia fragments, pelmatozoan fragments				75AMu57-1
UA2190	68 24.4'	153 32.0'	Conodont	Early Triassic (Late Smithian)	S	middle fork of the Okpik-ruak River	limestone bed in the Otuk Formation	43	4 Pa - Neogondolella milleri (Müller), 3 Pa, 1 Pb, 2 M, 1 Sb, 1 So? Xaniognathus sp.	2			
83AMu42-3	?		Pelecypod	Upper Triassic (Norian)	E		upper part of Otuk Fmn. most likely the ls mbr.	11	monotid and halobiid pelecypods				
83ATI-1-7	?		Pelecypod	Upper Triassic (Norian)	E		upper part of Otuk Fmn. most likely the ls mbr.	11	monotid and halobiid pelecypods				
83ATI-1-9	?		Pelecypod	Upper Triassic (Norian)	E		upper part of Otuk Fmn. most likely the ls mbr.	11	monotid and halobiid pelecypods				
83ADI-20-3	?		Pelecypod	Upper Triassic (Norian)	E		upper part of Otuk Fmn. most likely the ls mbr.	11	monotid and halobiid pelecypods				
83ADI-20-4	?		Pelecypod	Upper Triassic (Norian)	E		upper part of Otuk Fmn. most likely the ls mbr.	11	monotid and halobiid pelecypods				
83ASK175A	?		Pelecypod	Upper Triassic (Norian)	E		upper part of Otuk Fmn. most likely the ls mbr.	11	monotid and halobiid pelecypods				
83ASK186	?		Pelecypod	Upper Triassic (Norian)	E		upper part of Otuk Fmn. most likely the ls mbr.	11	monotid and halobiid pelecypods				
85AMu3-2	68 22.5'	154 12.8'	Pelecypod, Radiolarian	Upper Triassic (late Middle or earliest Late Norian)	H	E. Akmalik Ck.	Limestone Mbr. Otuk Fmn.	19	Monotis sp. indet., but probably M. (Eomonotis) sp. or M. (Entomonotis) ochotica densistriata				
85AMu4	68 22.8'	154 08.1'	Pelecypod	Late Triassic (Late Karnian)	H	The Flap	Limestone Mbr. Otuk Fmn.	19	Monotis cf. M. (Entomonotis) ochotica				
85AMu4-2	68 22.8'	154 08.1'	Pelecypod	Late Triassic (Late Norian)	H	The Flap	Limestone Mbr. Otuk Fmn.	19	Monotis (Monotis) cf. M. (M.) subcircularis				85AMu4
83Bo262	68 31.7'	154 42.0'	Pelecypod	Late Triassic (Upper Norian)	H	Heather Ck., ~5km N. of Mtn. front	top of limestone mbr. Otuk Fmn.	20	Monotis aff. M. ochotica				
83Bo30	68 32.2'	155 43.3'	Radiolarian	Upper Triassic (Norian)?	B	Otuk Ck.	Limestone Mbr. Otuk Fmn.	26	Pseudoheliodiscus cf. P. sandspitensis				83Bo44
83Bo29	68 32.2'	155 43.3'	Radiolarian, Conodont	Upper Triassic (Norian)?	B	Otuk Ck.	Limestone Mbr. Otuk Fmn.	26	Capnodoche sp., Pseudoheliodiscus sp., Neogondolella mombergensis, Neogondolella navacula navicula?				83Bo44
83Bo25	68 32.2'	155 43.3'	Radiolarian	Upper Triassic (Norian)?	B	Otuk Ck.	Limestone Mbr. Otuk Fmn.	26	Acanthocircus sp., Capnodoche sp., Capnucho-sphaera cf. C. triassica, Corum perfectum, Pseudoheliodiscus sp., Sarla cf. S. vetusta, Syringocapsa sp., Veghicyclia austriacea, Xipha sp., sponge microscleres				83Bo44
83Bo24	68 32.2'	155 43.3'	Radiolarian	Upper Triassic (Norian)?	B	Otuk Ck.	Limestone Mbr. Otuk Fmn.	26	Corum sp.				83Bo44
JURASSIC TO TRIASSIC ROCKS, Chert Member of the Otuk Formation													
83Bo8	68 32.2'	155 43.3'	Conodont	Upper Triassic	?	Otuk Ck.	black shale, Chert Mbr., Otuk Fmn.	26	Neogondolella sp., Xaniognathus sp.				83Bo8 above
83ASK176	68 32.8'	154 28.2'	Conodont	indeterminant	A	Imnaitchiak Ck.	Otuk Fmn., black chert	45	no conodonts				

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83Bo79	68 19.8'	154 50.8'	Conodont	late Early Triassic (Spa- thian) to late Middle Triassic (Early Ladinian)?	?	S. Kurupa Hills	Chert Mbr. Otuk Fmn.	26	Neogondolella mombergensis (Tatge, 1956)				
83Bo3	68 32.2'	155 43.3'	Radiolarian	Upper Triassic (Carnian)?	B	Otuk Ck.	Chert Mbr. Otuk Fmn.	26	Pachus? sp., Pseudostylosphaera helictum?, Triassocampe sp.				83Bo44
83Bo77	68 19.8'	154 50.8'	Radiolarian	Middle Triassic (Ladinian) to Late Triassic (Norian)	B	S. Kurupa Hills	Chert Mbr. Otuk Fmn.	26	Capnodoche anapetes, Capnuhosphaera smithorum?, Corum sp., Syringocapsa turgidum				83Bo79
83Bo73	68 19.8'	154 50.8'	Radiolarian	Middle Triassic (Ladinian) to Late Triassic (Norian)	B	S. Kurupa Hills	Chert Mbr. Otuk Fmn.	26	Pseudoheliodiscus sp.				83Bo79
83Bo114	68 24.3'	153 32.0'	Radiolarian	Middle Triassic (Anisian)?	B	M. fork Okpikruak R.	Chert Mbr. Otuk Fmn.	26	Eptingium? sp., Pseudostylosphaera sp., Tripocyclia? sp.				83Bo99
83Bo115	68 24.3'	153 32.0'	Radiolarian	Middle Triassic (Anisian)?	B	M. fork Okpikruak R.	Chert Mbr. Otuk Fmn.	26	Pseudostylosphaera sp.				83Bo99
83Bo116	68 24.3'	153 32.0'	Conodont	Middle Triassic (Ladin- ian to Anisian)?	B	M. fork Okpikruak R.	Chert Mbr. Otuk Fmn.	26	Neogondolella mombergensis				83Bo99
83Bo117	68 24.3'	153 32.0'	Radiolarian	Middle Triassic (Ladin- ian)?	B	M. fork Okpikruak R.	Chert Mbr. Otuk Fmn.	26	Pseudostylosphaera japonicum?, Triassocampe cf. T. deweveri				83Bo99
83Bo118	68 24.3'	153 32.0'	Radiolarian	Middle Triassic (Ladin- ian)?	B	M. fork Okpikruak R.	Chert Mbr. Otuk Fmn.	26	Triassocampe sp.				83Bo99
83Bo119	68 24.3'	153 32.0'	Radiolarian	Middle Triassic (Ladin- ian)?	B	M. fork Okpikruak R.	Chert Mbr. Otuk Fmn.	26	Corum perfectum, Pseudostylosphaera sp.				83Bo99
83Bo121	68 24.3'	153 32.0'	Radiolarian	Middle Triassic (Ladin- ian)?	B	M. fork Okpikruak R.	Chert Mbr. Otuk Fmn.	26	Staurocontium sp.				83Bo99
83Bo122	68 24.3'	153 32.0'	Radiolarian	Middle Triassic (Ladin- ian)?	B	M. fork Okpikruak R.	Chert Mbr. Otuk Fmn.	26	Pseudostylosphaera sp.				83Bo99
83Bo123	68 24.3'	153 32.0'	Radiolarian	Upper Triassic (Carnian)?	B	M. fork Okpikruak R.	Chert Mbr. Otuk Fmn.	26	Pachus? sp., Pseudostylosphaera sp., Triasso- campe sp., sponge microscleres				83Bo99
83Bo124	68 24.3'	153 32.0'	Conodont	Upper Triassic (Carnian)?	?	M. fork Okpikruak R.	Chert Mbr. Otuk Fmn.	26	Cypriododella prionoides?, Neogondolella sp.				83Bo99
83Bo125	68 24.3'	153 32.0'	Radiolarian	Upper Triassic (Norian)?	B	M. fork Okpikruak R.	Chert Mbr. Otuk Fmn.	26	Capnuhosphaera cf. C. triassica, Xenorom? sp.				83Bo99
JURASSIC TO TRIASSIC ROCKS, Shale Member of the Otuk Formation													
75AMu57-47	68 32.2'	155 43.1'	Foraminifera	Triassic	P	Otuk Ck.	Otuk Fmn. dk. brown-gray silty, slightly cal- careous shale	33	Astacolus connudatus, Marginulinopsis cf. phragmites, Nodosaria larina, N. sp., Pseudo- glandulina lata, Spongodiscus sp., Inoceramus prisms, echinoid spines, glauconite, pyrite				75AMu57-1
75AMu57-47	68 32.2'	155 43.1'	Palanomorphs	Cretaceous?	P	Otuk Ck.	Otuk Fmn. dk. brown-gray silty, slightly calcar- eous shale	33	undifferentiated bisaccates, Oligosphaeridium complex?, single, Tasmanaceae				75AMu57-47 & 75AMu57-1
75AMu57-63	68 32.2'	155 43.1'	Foraminifera	Triassic	P	Otuk Ck.	Otuk Fmn. dark brownish gray sandy shale	33	Astacolus connudatus, Nodosaria larina, Ceno- sphaera sp., Inoceramus prisms, echinoid spines, pelmatozoan fragments				75AMu57-1
75AMu57-63	68 32.2'	155 43.1'	Palanomorphs	indeterminant	P	Otuk Ck.	Otuk Fmn. dark brownish gray sandy shale	33	Tasmanaceae				75AMu57-63 & 75AMu57-1
75AMu57-70	68 32.2'	155 43.1'	Foraminifera	Triassic	P	Otuk Ck.	Otuk Fmn., dark gray bentonitic shale	33	Astacolus connudatus, Lagena aphela, Marginu- lina prisca, Nodosaria larina, N. regularis				75AMu57-1
75AMu57-70	68 32.2'	155 43.1'	Palanomorphs	indeterminant	P	Otuk Ck.	Otuk Fmn., dark gray bentonitic shale	33	undifferentiated bisaccates, Tasmanaceae				75AMu57-70 & 75AMu57-1
75AMu57-110	68 32.2'	155 43.1'	Foraminifera	probable Triassic	P	Otuk Ck.	Otuk Fmn., dark brown calcareous shelly shale	33	Lagena aphela?, Spongodiscus sp., Monotis/ Halobia fragments, echinoid spines, pyrite				75AMu57-1
75AMu57-110	68 32.2'	155 43.1'	Palanomorphs	indeterminant	P	Otuk Ck.	Otuk Fmn., dark brown calcareous shelly shale	33	undifferentiated bisaccates				75AMu57-1 & 75AMu57-110
75AMu60-1	68 24.0'	154 21.0'	Foraminifera	possible Triassic	P	Kikiktat Mtn.	Otuk Fmn??? dark brown to black cherty cal- careous shale	33	Cenosphaera sp., Spongodiscus sp.				
83Bo163	68 22.0'	154 7.0'	Conodont	indeterminant	A	from "The flap"	black, sooty shale of the	45	no conodonts recovered				

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	83Bo102	68 24.3'	153 32.0'	Conodont, Fish Teeth	Lower Triassic (Smithian) to Middle Triassic (Anisian)	?	middle fork Okpikruak River	Otuk Fmn. upper beds of Shale Mbr. Otuk Fmn.	26	Neogondolella milleri, Xaniognathus sp., fish teeth			Endicott Mtns.	
	83Bo112	68 24.3'	153 32.0'	Cephalopod	Middle Triassic (Upper Hyattl Zone, mid-Middle Anisian)	H	E. bank of the middle fork of the Okpikruak River section	uppermost beds of Shale Mbr. of Otuk Fmn.	20	Amphipopanoceras cf. A. selwyni, Leiophyll- ites? sp., orthoconic nautiloid, "Posidonia"- like bivalve				
	83Bo99	68 24.3'	153 32.0'	Foraminifera	Indeterminant, possible Middle to Late Triassic	I	Middle fork Okpikruak River	Shale Mbr. Otuk Fmn.	21	internal molds of Gaudryina adoxa? and Nodo- saria liratella?				83Bo120a
	83Bo99	68 24.3'	153 32.0'	Foraminifera	Late Triassic?	J	Middle fork Okpikruak River	Shale Mbr. Otuk Fmn.	22	internal casts suggestive of Pseudoglandulina simpsonensis (Tappan)				83Bo99 above and 83Bo120a
JURASSIC TO TRIASSIC ROCKS, Undifferentiated units of the Otuk Formation														
	79Md-204d	68 25.0'	155 34.0'	Radiolarian	Late Triassic (Late Carn- ian to late Middle Norian)	B,N		Otuk Fmn.	27	Capuchosphaera deweveri (Kozur and Mostler), C. schenki (Blome), Corum perfectum (B), Latium longulum (B), Sarla prietoensis (Pessagno), and Capnodoce sp.				
	79Md-200e	68 31.4'	155 38.5'	Radiolarian	Late Triassic (Early to late Middle Norian)	B,N		Otuk Fmn.	27	Capnuchosphaera lenticulata (Blome), Corum per- fectum (B), Capnodoce sp., Canoptum sp., Canesium sp. cf. C. lentum (B)				
	Lisburne No. 1 well	68 29.1'	155 41.5'	Radiolarian	Indeterminant	B,N	Ivotuk Hills	well cutting from the Otuk Fmn.	27	7425-7440ft-?Triassocampe sp., 11,095-11,100- Capnuchosphaera sp., Canesium lentum (Blome,?), 11,100-11,105-Capnuchosphaera sp., Sarla sp., Capnodoce sp. aff. C. anapetes (De Wever, ?), 11,105-11,110-Capnuchosphaera mexicana (Pes- sagno, ?), Capnuchosphaera sp., ?Canoptum sp., Xipha sp.				above
	83Bo53	68 32.2'	155 43.2'	Conodont	Triassic	A	Otuk Ck.	Otuk Fmn.	1		1	50-80	Endicott Mtns.	
	83Bo105	68 24.2'	153 32.0'	Conodont	Triassic	A	M. Fk. Okpikruak R.	Otuk Fmn.	1		1.5-2	50-100	Endicott Mtns.	
	83Bo133	68 31.0'	154 42.3'	Conodont	Pennsylvanian to Triassic, probably Triassic and possibly Early Triassic	A	east bank of Heather Ck.	Otuk Fmn., cherty siltstone	1,45	1 incomplete element of an ellisonid conodont	1-2	50-100	Endicott Mtns.	
	82AMu1	68 29.5'	154 29.0'	Radiolarian	Upper Triassic (Middle to Upper Norian)	B	Oolamnagavik River	Otuk	4	Capnuchosphaera sp.				
	82AMu32	68 24.0'	154 14.2'	Radiolarian	Middle to Upper Triassic	?	Killik River	Otuk	4	Eptingium sp.				
	82AMu32-2	68 24.0'	154 14.2'	Radiolarian	Triassic	?	Killik River	Otuk	4	Nasselaria, ?Oertlispongus				82AMu32
	82AMu62-3	68 22.8'	154 55.0'	Radiolarian	Upper Triassic	?	West Kurupa	Otuk?	4	Eptingium sp., Nasselaria				
	82AKy62	68 19.7'	154 50.0'	Radiolarian	Upper Triassic	?		chert, Otuk?	4	Capnuchosphaera sp.				
	83Mu36-3	68 28.7'	154 37.9'	Radiolarian	Upper Triassic ???	B	Heather Creek	Otuk, Gn-Gy Chert	5	one heavy bi-polar			Endicott Mtns.	
	83AMu17	68 24.7'	154 29.1'	Radiolarian	Upper Triassic (Carnian to Middle Norian)	B	Imnatchiak Ck.	chert, gy, banded	5	Capnuchosphaera sp., 3-4 nasselarian species				
	85AMu3-6	68 22.5'	154 12.8'	Pelecypod	Upper Triassic probably (Middle Norian)	H	E. Akmalik Ck.	Otuk Fmn.	19	traces of fine-ribbed Halobia				85AMu3-2
	85AMu3-9	68 22.5'	154 12.8'	Pelecypod	Late Triassic (Late Karnian)	H	E. Akmalik Ck.	Otuk Fmn.	19	Halobia cf. H. ornatissima or H. superba				85AMu3-2
	83Bo12	68 32.2'	155 43.3'	Pelecypod	Late Triassic (Upper Karnian or Lower Norian)	H	E. bank Otuk Ck.	Type Section Otuk Fmn.	20	Halobia cf. H. superba				
	83Bo15b	68 32.2'	155 43.3'	Pelecypod, Ichthyosaur?	Late Triassic (Upper Karnian to Lower Norian)	H	E. bank Otuk Ck.	stratotype of Otuk Fmn.	20	Halobia cf. H. cordillerana, vertebrae & bone fragments, probably an ichthyosaur				83Bo12
	83Bo70a	68 19.8'	154 50.8'	Pelecypod	Late Triassic (Upper Norian?)	H	2 miles S. of Kurupa Hills	ls and chert mbrs. of Otuk Fmn.	20	Monotis sp., indet. but of Upper Norian kind				
	83Bo120a	68 24.3'	153 32.0'	Pelecypod	Middle Triassic (Middle Ladinian)	H	E. bank of the middle fork of the Okpikruak River	chert and shale mbr. of Otuk Fmn.	20,26	Daonella frami, D. degeeri				83Bo112

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83Bo8	68 32.2'	155 43.3'	Foraminifera	indeterminant, possible Middle to Late Triassic?	I	Otuk Ck.	Otuk Fmn.	21	Pseudoglandulina densa? internal mold, misc. Lagenid internal molds			83Bo8 above
79Wr-1.60	68 35.0'	155 46.0'	Radiolarian	Late Triassic (Late Carnian or Early Norian)	B,N	Otuk Ck.	Otuk Fmn.	27	Capnuchosphaera sp. aff. C. theloides (De Wever, 1979), Xenorom sp. cf. X. largum (Blome, 1984), Paronaella sp., Pseudostylosphaera nazarovi (Kozur and Mostler, 1979), Yeharaia sp. cf. Y. annulata (Nakaseko and Nishimura, 1979), ?Canesium lentum (B, 1984), ?Corum sp. cf. C. regium (B, 1984), ?Xipha sp., Triassocampe deweveri (N and N, 1979)			
79Wr-1.58	68 35.0'	155 46.0'	Radiolarian, Megafossils	Late Triassic (Late Carnian or Early Norian)	B,N	Otuk Ck.	Otuk Fmn.	27	Paronaella sp., Pseudostylosphaera nazarovi (Kozur and Mostler, 1979), Yeharaia sp. cf. Y. annulata (Nakaseko and Nishimura, 1979), Orbiculiforma sp., ?Canesium lentum (Blome, 1984), Triassocampe deweveri (N and N, 1979), Halobia cf. H. dilatata and cf. cordillerana			79Wr-1.60
79Wr1.54	68 35.0'	155 46.0'	Radiolarian, Megafossils	Late Triassic (Late Carnian to late Middle Norian)	B,N	Otuk Ck.	Otuk Fmn.	27	?Pseudostylosphaera nazarovi (Kozur and Mostler, 1979), ?Yeharaia sp. cf. Y. annulata (Nakaseko and Nishimura, 1979), ?Xipha sp., Triassocampe deweveri (N and N, 1979), Capnodocoe anapetes (De Wever, 1979), C. traversi (Pessagno, 1979), ?C. vetusta (P, 1979), Syringocapsa sp., Halobia cf. H. lineata, and cf. halorica			79Wr-1.60
79Wr-1.40	68 35.0'	155 46.0'	Radiolarian, Megafossils	Late Triassic (Late Carnian to late Middle Norian)	B,N	Otuk Ck.	Otuk Fmn.	27	?Yeharaia sp. cf. Y. annulata (Nakaseko and Nishimura, 1979), Canesium lentum (Blome, 1984), Corum sp. cf. C. regium (B, 1984), Triassocampe deweveri (N and N, 1979), Capnodocoe anapetes (De Wever, 1979), Halobia cf. H. lineata, C. traversi (Pessagno, 1979), C. vetusta (P, 1979), ?Corum sp., Latium sp. cf. L. paucum (B, 1984), Halobia cf. H. lineata			79Wr-1.60
79Wr-1.39	68 35.0'	155 46.0'	Radiolarian	Late Triassic (Early or Middle Norian)	B,N	Otuk Ck.	Otuk Fmn.	27	?Canesium lentum (Blome, 1984), Corum sp. cf. C. regium (Blome, 1984), Capnodocoe traversi (Pessagno, 1979), Capnuchosphaera sp., Acanthocircus elegans (Kozur and Mostler, 1972), ?Corum perfectum (Blome, 1984)			79Wr-1.60
79Wr-1.14	68 35.0'	155 46.0'	Radiolarian	Late Triassic (Early or Middle Norian)	B,N	Otuk Ck.	Otuk Fmn.	27	Canesium lentum (Blome, 1984), Corum sp. cf. regium (B, 1984), Triassocampe deweveri (Nakaseko and Nishimura, 1979), Syringocapsa sp., Capnodocoe traversi (Pessagno, 1979), Capnuchosphaera sp. cf. C. schenki (B, 1983), C. sp. aff. C. triassica (De Wever, 1979), ?Corum sp., Latium sp. cf. L. paucum (B, 1984), Acanthocircus elegans (Kozur and Mostler, 1972), ?Corum perfectum (Blome, 1979)			79Wr-1.60
79Wr-1.13	68 35.0'	155 46.0'	Radiolarian	Late Triassic (Early or Middle Norian)	B,N	Otuk Ck.	Otuk Fmn.	27	Paronaella sp., Corum sp. cf. C. regium (Blome, 1984), Capnuchosphaera sp. cf. C. schenki (B, 1983), C. triassica (De Wever, 1979), C. sp. cf. triassica (D W, 1979), ?Corum sp., Latium sp. cf. L. paucum (B, 1984), Acanthocircus elegans (Kozur and Mostler, 1972), Corum perfectum (B, 1984), Capnuchosphaera sp. cf. C. silviesensis (B, 1983), C. tricornis (DW, 1979)			79Wr-1.60

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	79Wr-1.12	68 35.0'	155 46.0'	Radiolarian, Megafossils	Late Triassic (Early or Middle Norian)	B,N	Otuk Ck.	Otuk Fmn.	27	?Corum sp. cf. C. regium (Blome, 1984), Capno- doce sp., Syringocapsa sp., Capnuhosphaera sp. Latium sp. cf. L. paucum (B, 1984), Acantho- circus sp., Corum perfectum (B, 1984), ?Cap- nuhosphaera sp. cf. C. silviesensis (B, 1983), Capnuhosphaera sp. cf. C. sockensis (B, 1983), Sarla sp., Capnuhosphaera lenticulata (Pessag- no, 1979), C. mexicana (P, 1979), C. sp. aff. C. mexicana (P, 1979), Pantanellium tozeri (P, 1979), Plafkerium hindei (P, 1979), Sarla natividensis (P, 1979), Halobia cf. H. halorica Syringocapsa sp., Capnuhosphaera sp. cf. C.					79Wr-1.60
										schenki (Blome, 1983), Acanthocircus sp., Cap- nuhosphaera sp. cf. C. sockensis (B, 1983), Sarla sp., Capnuhosphaera lenticulata (Pessag- no, 1979), C. mexicana (P, 1979), C. sp. aff. C. mexicana (P, 1979), Pantanellium tozeri (P, 1979), Plafkerium hindei (P, 1979), Sarla natividadensis (P, 1979)					79Wr-1.60
	79Wr-1.11	68 35.0'	155 46.0'	Radiolarian	Late Triassic (late Middle or early Late Norian)	B,N	Otuk Ck.	Otuk Fmn.	27	Capnodoce traversi (Pessagno, 1979), C. vetusta (P, 1979), Capnuhosphaera sp., Corum sp., Capnuhosphaera sp. cf. C. silviesensis (Blome, 1983), C. sp. cf. C. sockensis (B, 1983), ?Pachus sp., Sarla sp., Capnuhosphaera lenti- culata (P, 1979), C. sp. aff. C. mexicana (P, 1979), Pantanellium tozeri (P, 1979), Plafker- ium hindei (P, 1979), Sarla natividadensis (P, 1979)					79Wr-1.60
	79Wr-1.10	68 35.0'	155 46.0'	Radiolarian	Late Triassic (late Middle or early Late Norian)	B,N	Otuk Ck.	Otuk Fmn.	27	Capnodoce traversi (Pessagno, 1979), C. vetusta (P, 1979), Capnuhosphaera sp., Corum sp., Capnuhosphaera sp. cf. C. silviesensis (Blome, 1983), C. sp. cf. C. sockensis (B, 1983), ?Pachus sp., Sarla sp., Capnuhosphaera lenti- culata (P, 1979), C. sp. aff. C. mexicana (P, 1979), Pantanellium tozeri (P, 1979), Plafker- ium hindei (P, 1979), Sarla natividadensis (P, 1979)					79Wr-1.60
	83AKy2s-48.2	?	?	Radiolarian	Middle Triassic (Ladinian; ?Early Carnian)	B,N	Akmalik Creek	Otuk Fmn.	27	Triopocycla? japonica (Nakaseko and Nishimura, 1979), Triassocampe? scalaris (Dumitrica, Kozur, and Mostler, 1980), Triassocampe sp. Emiluvia? cochleata (Nakaseko and Nishimura, 1979), Pseudostylodphaera compacta (N and N, 1979), Triassocampe sp.					83AKy2s-48.2
	83AKy2s-39.4	?	?	Radiolarian	Late Triassic (Carnian)	B,N	Akmalik Creek	Otuk Fmn.	27	Pseudostylosphaera hellenica (De Wever, 1979), P. helicata (Nakaseko and Nishimura, 1979), P. nazarovi (Kozur and Mostler, 1979)					83AKy2s-48.2
	83AKy2s-37.4	?	?	Radiolarian	Late Triassic (Carnian)	B,N	Akmalik Creek	Otuk Fmn.	27	Xenorum largum (Blome?, 1984)					83AKy2s-48.2
	83AKy2s-32.0	?	?	Radiolarian	Late Triassic (Late Carn- ian to late Middle Norian)	B,N	Akmalik Creek	Otuk Fmn.	27	Triassocampe immaturum (Blome, 1984), Capnodoce sp.					83AKy2s-48.2
	83AKy2s-22.7	?	?	Radiolarian	Late Triassic (Late Carn- ian to late Middle Norian)	B,N	Akmalik Creek	Otuk Fmn.	27	Renzium webergorum (Blome, 1983), Capnodoce anapetes (De Wever, 1979), Capnuhosphaera? colemanni (B, 1983)					83AKy2s-48.2
	83AKy2s-19.6	?	?	Radiolarian	Late Triassic (Late Carn- ian to late Middle Norian)	B,N	Akmalik Creek	Otuk Fmn.	27	Xipha striata (Blome?, 1984), Capnuhosphaera sp., Corum sp.					83AKy2s-48.2
	83AKy2s-14.9	?	?	Radiolarian	Late Triassic (Late Carn- or early Late Norian)	B,N	Akmalik Creek	Otuk Fmn.	27	Capnuhosphaera sp., Capnuhosphaera smithorum (Blome?, 1984)					83AKy2s-48.2
	83AKy2s-12.5	?	?	Radiolarian	Late Triassic (Late Carn- to early Late Norian)	B,N	Akmalik Creek	Otuk Fmn.	27	Monotis					83AKy2s-48.2
	83AKy2s-8.1	?	?	Megafossil	Late Triassic (Norian)	B,N	Akmalik Creek	Otuk Fmn.	27	Pseudoheliodiscus? sp., Monotis					83AKy2s-48.2
	83AKy2s-6.5	?	?	Radiolarian, Megafossils	Late Triassic (Norian)	B,N	Akmalik Creek	Otuk Fmn.	27	Livarella densiporata (Kozur and Mostler, 1981), Pseudoheliodiscus sp.					83AKy2s-48.2
	83AKy2s-3.5	?	?	Radiolarian	Late Triassic (Late Norian)	B,N	Akmalik Creek	Otuk Fmn.	27	3 Pa elements of Neogondolella cf. N. phosphorien-					83AKy2s-48.2
	83AMu36-4	68 28.9'	154 37.9'	Conodont	Late Permian (Guadalupian)	A,S	Heather Ck.	grayish-green-cream chert	1,45,46		1-1.5	60-90	Picnic Creek		

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								of Otuk Frnn.		sis (Youngquist, Hawley and Miller), 4 indet. plat-				
										form and blade fragments				
TRIASSIC ROCKS.														
	85AAI130c	68 22.9'	154 19.9'	Radiolarian	Middle to Late Triassic	B	Lower Akmalik Ck.	Lower Akmalik Chaos	1	Eptingium sp., nondistinctive nasselarian forms				Picnic Creek
	85AAI202a	68 22.9'	154 19.2'	Radiolarian	Late Triassic	B	Lower Akmalik Ck.	Lower Akmalik Chaos	1	nasselarian fragments				Picnic Creek
	85AAI001	68 21.7'	154 20.6'	Radiolarian	Mesozoic, </=Triassic	C	Below mtn. front west	Upper Akmalik Chaos	1					Endicott Mtns./ Picnic Creek
	85AAI004	68 21.8'	154 21.1'	Radiolarian	Mesozoic, </=Triassic	C	Below mtn. front west	Upper Akmalik Chaos	1					Endicott Mtns./ Picnic Creek
	85AAI006	68 21.8'	154 21.2'	Radiolarian	barren	C	Below mtn. front west	Upper Akmalik Chaos	1					Endicott Mtns./ Picnic Creek
	85AAI011	68 21.8'	154 22.0'	Radiolarian	Triassic	C	Below mtn. front west	Upper Akmalik Chaos	1					Endicott Mtns./ Picnic Creek
	85AAI012	68 21.8'	154 22.1'	Radiolarian	Mesozoic, </=Triassic	C	Below mtn. front west	Upper Akmalik Chaos	1					Endicott Mtns./ Picnic Creek
	85AAI144	68 22.0'	154 19.1'	Radiolarian	Mesozoic, </=Triassic?	C	Upper Akmalik Ck.	Upper Akmalik Chaos	1					Endicott Mtns./ Picnic Creek
	85AAI147a	68 21.8'	154 19.4'	Radiolarian	Mesozoic, </=Triassic?	C	Below mtn. front west	Upper Akmalik Chaos	1					Endicott Mtns./ Picnic Creek
	85AAI148a	68 21.8'	154 19.6'	Radiolarian	Triassic?	C	Below mtn. front west	Upper Akmalik Chaos	1					Endicott Mtns./ Picnic Creek
	85AAI148b	68 21.8'	154 19.8'	Radiolarian	Triassic?	C	Below mtn. front west	Upper Akmalik Chaos	1					Endicott Mtns./ Picnic Creek
	85AAI149a	68 21.8'	154 20.0'	Radiolarian	Mesozoic, </=Triassic?	C	Below mtn. front west	Upper Akmalik Chaos	1					Endicott Mtns./ Picnic Creek
	85AAI149b	68 21.7'	154 20.2'	Radiolarian	barren?	C	Below mtn. front west	Upper Akmalik Chaos	1					Endicott Mtns./ Picnic Creek
	85AAI150	68 21.6'	154 21.3'	Radiolarian	barren?	C	Below mtn. front west	Upper Akmalik Chaos	1					Endicott Mtns./ Picnic Creek
	85AAI197b	68 22.0'	154 19.3'	Radiolarian	barren?	C	West, above Akmalik Ck.	Upper Akmalik Chaos	1					Endicott Mtns./ Picnic Creek
	85AAI226a	68 22.3'	154 16.2'	Radiolarian	Triassic?	C	Below mtn. front east	Upper Akmalik Chaos	1					Endicott Mtns./ Picnic Creek
	85AAI226c	68 22.3'	154 16.2'	Radiolarian	Triassic?	C	Below mtn. front east	Upper Akmalik Chaos	1					Endicott Mtns./ Picnic Creek
	85AAI228a	68 21.9'	154 15.2'	Radiolarian	Triassic?	C	Below mtn. front east	Upper Akmalik Chaos	1					Endicott Mtns./ Picnic Creek
	85AAI230a	68 21.9'	154 14.8'	Radiolarian	Mesozoic, </=Triassic?	C	Below mtn. front east	Upper Akmalik Chaos	1					Endicott Mtns./ Picnic Creek
	85AAI231a	68 22.0'	154 14.8'	Radiolarian	barren?	C	Below mtn. front east	Upper Akmalik Chaos	1					Endicott Mtns./ Picnic Creek
	85AAI231c	68 22.0'	154 14.8'	Radiolarian	Triassic?	C	Below mtn. front east	Upper Akmalik Chaos	1					Endicott Mtns./ Picnic Creek
TRIASSIC ROCKS, UNDIFFERENTIATED														
	82AMu41-6	68 20.8'	155 42.0'	Radiolarian	Upper Triassic	?	Otuk Ck.	Permo-Triassic	4	Capnuhosphaera sp.				
	82AMu47	68 29.7'	155 55.1'	Radiolarian	Upper Triassic (Norian)	?	Ileriak Ck.	Dolomite and Chert	4	Ferresium sp., Nasselarians				
	82AMu49	68 25.1'	154 22.0'	Radiolarian	Upper Triassic (Norian)	?	Imnaitchiak Ck.	Permo-Triassic, thin bedded chert	4	Capnuhosphaera sp., Pseudoheliodiscus cf. sandspitensis				
	82AMu54-1	68 23.7'	154 53.5'	Radiolarian	Upper Triassic (Norian)	?	West Kurupa	Permo-Triassic Chert	4	Veghicycla sp. cf. V. austriaca			?Picnic Creek	82AMu54
	82AKy95a	68 30.9'	153 01.9'	Radiolarian	Mesozoic	?		chert	4	nasselarine forms, 3-spined forms				
	82AKy41a	68 18.6'	155 41.2'	Radiolarian	Upper Triassic	?		chert	4	Capnuhosphaera sp.				

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82AKy62a	68 19.7'	154 50.0'	Radiolarian	Upper Triassic	?		chert	4	fragments of Acanthocircus or Pseudoheliodiscus; Capnuchosphaera sp.				82AKy62
82AKy25a	68 26.4'	155 38.4'	Radiolarian	Upper Triassic	?			4	Triassocampe sp.				
83Mu10-2	68 29.1'	154 26.0'	Radiolarian	Upper Triassic (Norian)	B	E. of Imnaitchiak Ck.	chert	5	fragments of <= species of either Acanthocircus or Pseudoheliodiscus				
Lisburne No. 1 well	68 29.1'	155 41.5'	Radiolarian	Triassic	B,N	Ivotuk Hills	Fortress Mtn. Fmn.	27	Platkerium sp., ?Saria sp., ?Triassocampe sp.				
TRIASSIC TO PENNSYLVANIAN ROCKS, Imnaitchiak													
85AAI117	68 22.8'	154 17.8'	Radiolarian	Middle to Late Triassic	C	E. Akmalik Ck.	Imnaitchiak Chert	1				Picnic Creek	
85AAI118	68 22.7'	154 17.0'	Radiolarian	barren(?)	C	E. Akmalik Creek	Imnaitchiak Chert	1				Picnic Creek	
85AAI179b	68 22.7'	154 21.5'	Radiolarian	Mesozoic, <=Triassic	C	upslope from 85AAI179a	Imnaitchiak Chert, up-section from previous	1	nasselarians?			Picnic Creek	~85AAI179a
85AAI154	68 22.7'	154 18.2'	Radiolarian, Foraminifera	Permian	C	E. Akmalik Ck., upslope from 85AAI117	Imnaitchiak Chert, unknown strat. position	1	Latentifistulid sp., and Amodiscus (foram)			Picnic Creek	
85AAI158	68 22.7'	154 19.0'	Radiolarian	Early Permian	C	E. Akmalik Ck., upslope, due east of 85AAI154	Imnaitchiak Chert, unknown strat. position	1	P. Scalperta, sp.			Picnic Creek	
85AAI215b	68 23.7'	154 21.5'	Foraminifera	Permian	C	S.W. flank of W. Kikiktat Mtn.	Imnaitchiak Chert, faulted section	1	Amodiscus, sp. (foram)			Picnic Creek	
85AAI119	68 22.8'	154 14.5'	Radiolarian	Middle Pennsylvanian to Early Permian	C	E. Akmalik Creek	Imnaitchiak Chert	1	Latentifistulid, sp.			Picnic Creek	
85AAI141	68 22.6'	154 19.9'	Radiolarian	Mississippian to Permian	C	W. wall Akmalik Ck. canyon	Imnaitchiak Chert, 1m above base	1				Picnic Creek	
85AAI175	68 23.1'	154 18.2'	Radiolarian	Barren?	C	Cutbank, N. side of Akmalik Ck.	Imnaitchiak Chert, unknown strat. position	1				Picnic Creek	
85AAI177a	68 22.9'	154 21.3'	Radiolarian	Barren?	C	W. of Akmalik Ck., S. of Zebra Ck.	Imnaitchiak Chert	1				Picnic Creek	
85AAI179a	68 22.7'	154 21.5'	Radiolarian	Early Permian to Pennsylvanian	C	upslope from 85AAI178b	Imnaitchiak Chert, up-section from previous	1				Picnic Creek	
85AAI208a	68 23.3'	154 20.0'	Radiolarian	Early Permian to Pennsylvanian	C	S.E. flank of W. Kikiktat Mtn.	Imnaitchiak Chert, near base of section	1	Tetratormentum, sp.?			Picnic Creek	
85AAI241a	68 22.6'	154 19.8'	Radiolarian	barren	C	E. wall of Akmalik Creek canyon	Imnaitchiak Chert, 1m above base of section	1				Picnic Creek	
85AAI138b	68 22.5'	154 20.3'	Radiolarian	Early Pennsylvanian	C	Tributary Ck. to Akmalik Ck.	Imnaitchiak Chert, 2.5m above base	1	Tetratormentum, sp.			Picnic Creek	
85AAI178b	68 22.8'	154 21.6'	Radiolarian	Early Pennsylvanian	C	Upslope from 85AAI177a	Imnaitchiak Chert, near base of section	1	Tetratormentum?, sp.			Picnic Creek	
85AAI180a	68 22.6'	154 21.4'	Radiolarian	Early Pennsylvanian	C	upslope from 85AAI179b	Imnaitchiak Chert, faulted repeat(?)	1	Tetratormentum, sp.?			Picnic Creek	
85AAI248a	68 23.1'	154 16.1'	Radiolarian	Middle Pennsylvanian to Early Pennsylvanian	C	S. flank of E. Kikiktat Mtn.	Imnaitchiak Chert, .5m above base of section	1				Ignavio River	
TRIASSIC TO PENNSYLVANIAN ROCKS, SIKSIKPUK FORMATION													
83ASk317	68 22.8'	154 12.5'	Foraminifera	Permian to Early Triassic	I	Upper Akmalik Creek	pale orange clay, Siksikpuk Fmn.	3,32	Ammodiscus sp., A. P. small thin-walled Bathysiphon sp., Thuramminoides? sp., spines and spicules.			Endicott Mtns.	
83ASk318	68 22.8'	154 12.5'	Foraminifera	Permian to Early Triassic	I	Upper Akmalik Creek	gray-orange clay, Siksikpuk Fmn.	3,32	Ammodiscus sp., A. cf. orbis, A. P. Cenosphæra? sp., pyritized.			Endicott Mtns.	83ASk317
83ASk322	68 22.8'	154 12.5'	Foraminifera	Permian to Early Triassic	I	Upper Akmalik Creek	gray-orange clay, Siksikpuk Fmn.	3,32	Ammodiscus sp., A. P. pyritized Cenosphæra sp.			Endicott Mtns.	83ASk317
83ASk331	68 21.5'	154 19.0'	Conodont	Early Triassic to Silurian	A	Upper Akmalik Ck.	Siksikpuk Fmn. green siltstone	1,3	conodont bar or blade fragment of Silurian to Triassic morphotype	3	110-150	Endicott Mtns.	83ASk315d

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	83Ask342	68 29.8'	154 27.1'	Conodont	indeterminant	A		red mudstone of the Sik-sikpuk Fmn.	45	no conodonts recovered				
	83Ask 416	68 21.6'	154 29.9'	Conodont	indeterminant	A	along Imnaitchiak Ck.	gray chert of Siksikpuk Fmn.	45	no conodonts recovered				
	83Ask189+28m	68 22.5'	153 31.8'	Conodont	Early Triassic to Silurian	A,V	middle fork of the Okpikruak River	Siksikpuk Fmn.	1,50	1 P element fragment of Silurian to Early Triassic morphotype	<3	<110-150	Endicott Mtns.	
	83Bo134	68 31.8'	154 40.1'	Conodont	Permian to Silurian	A	east bank of Heather Ck.	Lisburne Group, crinoidal limestone	1,45	6 Indet. bar and blade fragments	1-1.5	50-90	Endicott Mtns.	
	83Ask192+32m	68 22.5'	153 31.8'	Conodont	late Early Permian (Leonardian)	A,V	middle fork Okpikruak River	Siksikpuk Fmn.	1,50	60 incomplete Pa elements of Neogondolella cf. N. idahoensis (Youngquist, Hawley & Miller), 2 incomplete Pa elements of Neostreptognathodus sp. indet.	1.5	60-90	Endicott Mtns.	83Ask189+28m
	83Ask196+38m	68 22.5'	153 31.8'	Conodont	late Early Permian (Leonardian)	A,V	middle fork Okpikruak River	Siksikpuk Fmn.	1,50	29 incomplete Pa elements of Neogondolella sp. indet. of Early Permian morphotype	1.5	60-90	Endicott Mtns.	83Ask189+28m
	83Ask295A	68 29.8'	154 27.1'	Brachiopod	indeterminant	E	Wolf Ck.?	gray clay zone in Siksikpuk Fmn.	12	fragments of a linguloid phosphatic brachiopod, indet.				83ASK295a see below
	83Ask316	68 21.5'	154 19.0'	Conodont	Permian to Mississippian	A,V	Upper Akmalik Ck.	Top 2m of Lisburne / base of Siksikpuk	1,50	7 indeterminant bar, blade, and platform fragments	3	110-150	Endicott Mtns.	83Ask315d
	83Ask317	68 21.5'	154 19.0'	Foraminifera	Permian to Early Triassic	I	Upper Akmalik Ck.	pale-orange clay	3,32	Ammodiscus sp., Ammodiscus P, Bathysiphon sp.			Endicott Mtns.	83Ask315d
	83Ask318	68 21.5'	154 19.0'	Foraminifera	Permian to Early Triassic	I	Upper Akmalik Ck.	gray-orange clay	3,32	Ammodiscus sp., A. cf. orbis, A. P., Cenospaera? spp. pyritized			Endicott Mtns.	83Ask315d
	83Ask322	68 21.5'	154 19.0'	Foraminifera	Permian to Early Triassic	I	Upper Akmalik Ck.	gray-orange clay	3,32	Ammodiscus sp., A. P. Cenospaera? sp., pyritized			Endicott Mtns.	83Ask315d
	83Ask295a	68 29.1'	154 25.5'	Brachiopod	indeterminant	E	Wolf Ck.	Siksikpuk, green	3	fragments of linguloid phosphatic brachiopod			Picnic Creek	83ASK288
	83Ask160a	68 19.8'	154 49.5'	Radiolarian	Pennsylvanian (Atokan) to Permian (Leonardian)	B,C	S. Kurupa Hills	Siksikpuk gray chert	2,3	fragment of Pseudoalibaillella, sp.			Endicott Mtns.	
	83Ask389	68 21.5'	154 20.0'	Radiolarian	Pennsylvanian or Early Permian	B,C	Akmalik Ck.	Siksikpuk, red chert	2,3	Latentibistula sp. w/ well-organized rods			Picnic Creek	83ASK381
chk	83Ask390	68 21.5'	154 20.0'	Radiolarian	Late Mississippian (Chesterian?) to Early Permian	B,C	Akmalik Ck.	Siksikpuk, red chert	2,3	Latentibifistula sp. w/ very coarse latticed rays			Picnic Creek	83ASK381
chk	83Ask391	68 21.5'	154 20.0'	Radiolarian	?	?	Akmalik Ck.	Siksikpuk Chert, green	3	Pseudoalibaillella aff. P. bulbosa			Picnic Creek	83ASK381
chk	83Ask401	68 21.5'	154 20.0'	Radiolarian	?	?	Kurupa Lake	Siksikpuk	3	Pseudoalibaillella aff. P. bulbosa			Picnic Creek	
	83Ask402	68 20.8'	154 38.5'	Radiolarian	Pennsylvanian or Early Permian	B,C	Kurupa Lake	Siksikpuk	2,3	Latentibifistula sp., well-organized lattice			Picnic Creek	83Ask401
	82A1+29	68 23.5'	154 20.9'	Radiolarian	Early Pennsylvanian	B	Akmalik Ck.	Base of Siksikpuk	6	tets, hints of Alibaillella?				82A1+0
	82A1+30	68 23.5'	154 20.9'	Radiolarian	indeterminant	B	Akmalik Ck.	Siksikpuk Chert, gray	6	poorly preserved radiolarite				82A1+0
	82A1+31	68 23.5'	154 20.9'	Radiolarian	<= Early Pennsylvanian	B	Akmalik Ck.	Siksikpuk Chert, gray	6	tets				82A1+0
	82A1+33	68 23.5'	154 20.9'	Radiolarian	<= Early Pennsylvanian	B	Akmalik Ck.	Siksikpuk Chert, gray	6	tets				82A1+0
	82A1+34	68 23.5'	154 20.9'	Radiolarian	Early Pennsylvanian	B	Akmalik Ck.	Siksikpuk Chert, gray	6	tets, possibly P. impella Group				82A1+0
	83Ask154b	68 21.5'	154 20.1'	Radiolarian	Late Mississippian (Chesterian) or Early Pennsylvanian (Morrowan)	B,C	Akmalik Ck.	Base of Siksikpuk Gray Chert	2,3	tetrahedral Latentifistulidea sp.			Picnic Creek	
	83Ask154b	69 21.5'	155 20.1'	Radiolarian	Late Mississippian	B,C	Akmalik Ck.	Base of Siksikpuk	2,4	tetrahedral Latentifistulidea sp.			Picnic Creek	
	83Ask288	68 29.1'	154 25.5'	Radiolarian	Late Mississippian (Chesterian) or Early Pennsylvanian (Morrowan)	B,C	Wolf Ck.	Siksikpuk	2,3				Picnic Creek	83Ask287
	83Ask379	68 22.8'	154 12.5'	Radiolarian	Late Mississippian (Chesterian) or Early Pennsylvanian (Morrowan)	B,C	E. Akmalik Ck.	Siksikpuk gray chert just above oncolite	2,3	Tormentum sp., Latentifistula sp., Latentifistula sp., spongy tetrahedral Latentifistulidea sp., and frags. of Alibaillella sp.			Picnic Creek	83ASK371
	83Ask381	68 21.5'	154 20.0'	Radiolarian	Late Mississippian (Chesterian) or Early Pennsylvanian (Morrowan)	B,C	Akmalik Ck.	Siksikpuk gray chert	2,3	spongy tetrahedral Latentifistulidea sp., Tormentum sp., spumellarians w/ 2 asymmetrically arranged spines			Picnic Creek	
	83Ask382	68 21.5'	154 20.0'	Radiolarian	Late Mississippian	B,C	Akmalik Ck.	Siksikpuk gray chert	2,3	spongy tetrahedral Latentifistulidea sp.,			Picnic Creek	83Ask381

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					(Chesterian) or Early Pennsylvanian (Morrowan)			base of oxidized zone		Latentifistula sp., Latentifistula sp., spumellarians w/ 2 assymetrically arranged spines				
83ASK404	68 20.8'	154 38.5'	Radiolarian	?Late Mississippian (Chesterian) or Early Pennsylvanian (Morrowan)	B,C	Kurupa Lake	Siksikpuk green chert	2,3		possible spongy tetrahedral Latentifistulidea sp.			Picnic Creek	83ASK402
83ASK406	68 20.8'	154 38.5'	Radiolarian	Late Mississippian (Chesterian) or Early Pennsylvanian (Morrowan)	B,C	Kurupa Lake	Siksikpuk green chert	2,3		spongy tetrahedral Latentifistulidea sp., Tormentum sp.			Picnic Creek	83ASK402
83ASK408	68 20.8'	154 38.5'	Radiolarian	Late Mississippian (Chesterian) or Early Pennsylvanian (Morrowan)	B,C	Kurupa Lake	Siksikpuk gray chert	2,3		spongy tetrahedral Latentifistulidea sp., Tormentum sp.			Picnic Creek	83ASK402
83ASK409	68 20.8'	154 38.5'	Radiolarian	Late Mississippian (Chesterian) or Early Pennsylvanian (Morrowan)	B,C	Kurupa Lake	Siksikpuk gray chert	2,3		spongy tetrahedral Latentifistulidea sp., Latentifistula sp., spumellarians w/ 2 assymetrically arranged spines			Picnic Creek	83ASK402
84AMu20-5	68 22.9'	154 27.5'	Radiolarian	Late Morrowan through end of Pennsylvanian, probably not Permian	B	Chert Fork of Imnait-chiak Ck.	Siksikpuk? Chert, siliceous shale, maroon, br-blk undulatory beds	5		Latentifistulids, complex but well-ordered mesh on arms			?Endicott Mtns.	
84AMu20-3	68 22.9'	154 27.5'	Radiolarian	Late Mississippian (Chesterian) to Early Pennsylvanian (Morrowan)	B	Chert Fork of Imnait-chiak Ck.	Siksikpuk? Chert, green gray, burrowed, oxidized weathering zone	5		Spongotripus, latentifistulids, spicules			?Endicott Mtns.	84AMu20-5
84AMu20-2	68 22.9'	154 27.5'	Radiolarian	?Late Mississippian (Chesterian) to Early Pennsylvanian (Morrowan)	B	Chert Fork of Imnait-chiak Ck.	Siksikpuk? Chert, gray, evenly bedded	5		questionable tetrahedral forms			?Endicott Mtns.	84AMu20-5
84AMu20-1	68 22.9'	154 27.5'	Radiolarian	Late Mississippian (Meramecian) to Early Pennsylvanian (Morrowan)	B	Chert Fork of Imnait-chiak Ck.	Siksikpuk? Chert, black, silty	5		fragments of Latentifistula impella, no tets or albailellas suggesting only Mississippian			?Endicott Mtns.	84AMu20-5
TRIASSIC TO PENNSYLVANIAN ROCKS,														
82AMu50-2	68 22.9'	154 48.0'	Radiolarian	Mesozoic	?	Kurupa Hills	Permo-Triassic?	4		spheres and spicules, few bi-polars			?Picnic Creek	
82AMu22-2	68 22.5'	155 40.0'	Radiolarian	indeterminant	?	Otuk Ck.	Permo-Triassic	4		many fragments, mesh balls				
TRIASSIC TO SILURIAN ROCKS,														
83AMu40-3	68 20.2'	154 38.4'	Conodont	Permian to Silurian	A	Upper Kurupa R.	Kayak Shale	1			3.5	150-180	Endicott Mtns.	83AMu40
PERMIAN ROCKS,														
82AMu54	68 23.7'	154 53.5'	Radiolarian	Early Permian (Wolfcampian)	B	West Kurupa	Permo-Triassic red chert	4		Pseudoalballiella globosa, tetrahedral spongy forms			?Picnic Creek	
81AMu9	68 38.8'	154 18.6'	Bryozoans, Brachiopods, Trilobite	Permian	E	Kikiktat Mtn.	Nuka Fmn.	10		echinoderm debris, indet., stenoporid and fenestrate bryozoans, indet., orthotetid, indet., Licharewia? sp., Spriferella? sp., proetid trilobite pygidium, indet.			?Picnic Creek?	
82AMu38	68 23.3'	154 16.8'	Echinoderms, Bryozoans, Brachiopods	Permian	E	Kikiktat Mtn.	Nuka Fmn.	10		echinoderm debris, indet., fenestrate bryozoans, indet., Attenuatella? sp., brachiopod fragments, indet., poss. fish jaw frags. indet.			?Picnic Creek	
83AMu64	68 34.2'	154 29.7'	Gastropod	Permian	E	Imnaitchiak Ck.	Nuka Fmn.	10		several partial specimens of Nordospira Vostokovae Yochelson, a large gastropod				
85DNS110b	68 23.4'	154 17.0'	Fish Tooth or Spine	indeterminant	E	Kikiktat Mtn. area	pebble conglomerate, Nuka Fmn.	31		probably a fish tooth or spine fragment				
PERMIAN TO MISSISSIPPIAN ROCKS,														
85AMu2-9	68 22.0'	154 12.0'	Conodont	< Early Pennsylvanian	A	E. Akmalik Ck.	Lisburne Group limest.	1			3	110-160	Endicott Mtns.	
85ASI14-18	68 28.7'	155 42.4'	Conodont	< Early Pennsylvanian	A	Ivotuk Hills	Lisburne Group limest., 11m from top	1			1.5	60-90	Endicott Mtns.	

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85ASI-20.0	68 21.5'	154 19.5'	Conodont	Early Pennsylvanian, no older than late Morrowan	T	Upper Akmalik Ck.	Lisburne Group, 30cm from top. Carbonaceous crinoidal packstone: the crinoid debris is syntaxially overgrown by medium to coarsely xln calcite spar which only forms in fresh-water phreatic environments. Sample is extensively silicified with later recrystallization of the qtz.	1,44	REDEPOS. AND/OR INDIG. LATE MORROWAN-WOLFCAMPIAN CONO.: 53 Pa elements of Idio-gnathodus streptognathodus plexus; REDEPOS. AND/OR INDIG. MORROWAN-ATOKAN CONO.: 20 Pa elements of Declinognathodus noduliferous (Ellison & Graves), 8 Pa elements of Idiognathoides sp.; REDEPOS. CHESTERIAN CONO.: 60 Pa elements of Gnathodus bilineatus (Roundy), 10 Pa elements of Gnathodus girtyi Hass, 5 Pa elements of Paragnathodus commutatus (Branson & Mehl); 1 M & 1 Sc elements, 74 indet. bar, blade, and platform fragments	3.5-4	150-200	Endicott Mtns.	
85ASI21	68 21.6'	154 20.1'	Conodont	Early Pennsylvanian, no older than late Morrowan	T	West Akmalik Ck.	Lisburne Group limest., 20cm from top	1,44	REDEPOS. AND/OR INDIG. LATE MORROWAN-WOLFCAMPIAN CONO.: 52 Pa elements of Idio-gnathodus-streptognathodus plexus; REDEPOS. AND/OR INDIG. MORROWAN-ATOKAN CONO.: 31 Pa elements of Declinognathodus noduliferous (Ellison & Graves), 7 Pa elements of Idiognathoides sp.; REDEPOS. CHESTERIAN CONO.: 23 Pa elements of Gnathodus bilineatus (Roundy), 5 Pa elements of Paragnathodus commutatus (Branson & Mehl); REDEPOS. MERAMECIAN-EARLY CHESTERIAN CONO.: 3 Pa elements of Gnathodus texanus Roundy; 2 Pb & 2 M elements, 35 indet. bar, blade and platform fragments	3.5-4	150-200	Endicott Mtns.	
85ASI22	68 21.6'	154 20.9'	Conodont	< Early Pennsylvanian	A	West Akmalik Ck.	Lisburne Group limest., 30cm from top	1,44	REDEPOS. AND/OR INDIG. LATE MORROWAN-WOLFCAMPIAN CONO.: 50 Pa elements of Idio-gnathodus-streptognathodus plexus; REDEPOS. AND/OR INDIG. MORROWAN-ATOKAN CONO.: 13 Pa elements of Declinognathodus noduliferous (Ellison & Graves); REDEPOS. AND/OR INDIG. LATE MORROWAN-EARLIEST ATOKAN CONO.: 1 Pa element of Neogondolella clarki (Kolke); REDEPOS. CHESTERIAN CONO.: 24 Pa elements of Gnathodus bilineatus (Roundy), 12 Pa elements of Gnathodus girtyi Hass, 1 Pa element of Paragnathodus commutatus (Branson & Mehl); REDEPOS. MERAMECIAN-EARLY CHESTERIAN CONO.: 13 Pa elements of Gnathodus texanus Roundy; 23 indet. bar, blade and platform fragments	3.5-4	150-200	Endicott Mtns.	
85ASI23	68 21.7'	154 21.5'	Conodont	< Early Pennsylvanian	A	West Akmalik Ck.	Lisburne Group limest., 30cm from top	1,44	REDEPOS. AND/OR INDIG. LATE MORROWAN-WOLFCAMPIAN CONO.: 32 Pa elements of Idio-gnathodus-streptognathodus plexus; REDEPOS. AND/OR INDIGENOUS MORROWAN-ATOKAN CONO.: 14 Pa elements of Declinognathodus noduliferous (Ellison & Graves), 7 Pa elements of Idiognathoides sp.; REDEPOS. CHESTERIAN CONO.: 10 Pa elements of Gnathodus bilineatus (Roundy), 14 Pa elements of the Gnathodus girtyi Hass group, 1 Pa element of Paragnathodus commutatus (Branson & Mehl) - ranges into very latest Meramecian; REDEPOS. MERAMECIAN-EARLY CHESTERIAN CONO.: 1 Pa element of Gnathodus texanus Roundy; 5 Pa gnathodid elements, 1 Sa & 1 Sc element, 28	3.5	140-200	Endicott Mtns.	

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	85ASI26-0.1	68 21.5'	154 21.9'	Conodont	< Early Pennsylvanian	A	West Akmalik Ck.	Lisburne Group limest., 10cm from top	1	Indet. bar, blade & platform fragments	4	190-300	Endicott Mtns.	
	85ASI27	68 21.5'	154 22.5'	Conodont	Early Pennsylvanian, no older than late Morrowan	T	West Akmalik Ck.	Lisburne Group limest., 50cm from top	1,44	REDEPOS. AND/OR INDIG. LATE MORROWAN- WOLFCAMPION CONO.: 64 Pa elements of Idio- gnathodus-streptognathodus plexus; REDEPOS. AND/ OR INDIG. MORROWAN-ATOKAN CONO.: 26 Pa elements of Declinognathodus noduliferous (Ellison & Graves), 10 Pa elements of Idiognathoides sp.; RE- DEPOS. AND/OR INDIG. LATE CHESTERIAN- ATOKAN CONO.: 1 Pa element of Rhachistognathus muricatus (Dunn); REDEPOS. CHESTERIAN CONO.: 18 Pa elements of Gnathodus bilineatus (Roundy), 30 Pa elements of Gnathodus girtyi Hass, 5 Pa elements of Paragnathodus commutatus (Branson & Mehl); RE- DEPOS. MERAMECIAN-EARLY CHESTERIAN CONO.: 26 indet. bar, blade and platform fragments	3	110-160	Endicott Mtns.	
	85ASI28	68 21.5'	154 23.1'	Conodont	< Early Pennsylvanian	T	West Akmalik Ck.	Lisburne Group limest., 20cm from top	1,44	REDEPOS. AND/OR INDIG. LATE MORROWAN- WOLFCAMPION CONO.: 39 juvenile Pa elements of Streptognathodus sp. indet., 2 Pa elements of Idio- gnathodus sp.; REDEPOS. AND/OR INDIG. MOR- ROWAN-ATOKAN CONO.: 16 juvenile Pa elements of Idiognathoides sp.; REDEPOS. LATE MISSISSIP- PIAN CONO.: 5 juvenile Pa elements of Gnathodus sp.; 9 Pb, 8 M, 5 Sa & 3 Sc elements (all juveniles), and +150 indet. bar, blade and platform fragments	3	110-160	Endicott Mtns.	
	82AMu41	68 21.0'	155 39.6'	Radiolarian	Late Paleozoic	?	Otuk Ck.	Permo-Triassic	4	Latenodiotid arms				
	82AMu41-1	68 21.5'	155 40.5'	Radiolarian	<= Mid-Mississippian	?	Otuk Ck.	Permo-Triassic	4	Albaillella sp., cf. A. cartalla				
	82AMu50-6	68 22.9'	155 48.0'	Radiolarian	Early Pennsylvanian or younger	?	Kurupa Hills	Permo-Triassic Hallo- ween chert	4	Tetrahedral spongodiscaceids, large mesh ?Paronaella			?Picnic Creek	82AMu50-2
	82AMu50-7	68 22.9'	155 48.0'	Radiolarian	Upper Paleozoic?	?	Kurupa Hills	Permo-Triassic Hallo- ween chert	4	thick spine bi-polars, sponge spicules			?Picnic Creek	82AMu50-2
	82AMu25	68 25.2'	155 38.3'	Radiolarian	Late Pennsylvanian? to Early Permian	?	Otuk Ck.	Permo-Triassic, maroon chert, organic shale	4	scalariforms w/ regular pore frames, rectang- ular; large fine perforate tube like a Latenodiotid				
	82AMu33-2	68 22.0'	154 23.0'	Radiolarian	Late Paleozoic, possibly Pennsylvanian?	B	Akmalik Ck.	?Lisburne/Siksikpuk? black chert	4	Albaillella sp., tips, numerous spumellaria			?Picnic Creek	
	82AMu53-1	68 23.6'	154 48.3'	Radiolarian	Late Paleozoic	?	Kurupa Tributary		4	Albaillella sp., Paronaella sp. cf. impella group				
	82AMu52	68 22.6'	154 47.3'	Radiolarian	probably Late Mississippian	B	Kurupa Tributary	chert?	4	Archocyrtium sp., Albaillella sp.			?Picnic Creek	
	82AKy24a	68 25.4'	155 38.5'	Radiolarian	indeterminant	?		chert	4	Paronella arm, sponge spicules				
	82AKy5	68 25.4'	154 20.3'	Radiolarian	Late Pennsylvanian to Early Permian (Wolf- campion)	?	hill NW of Kikiktat Mt.	chert	4	Pseudoalbaillella sp.			?Picnic Creek	
	82AKy24c	68 25.4'	155 38.5'	Radiolarian	Pennsylvanian to Early Permian, probably Permian	?		chert	4	Pseudoalbaillella sp., other unnamed star- shaped forms present; spheres, some spongy spumellaria w/ pore struct. common to Paleozoic				
	82AKy34	68 22.3'	155 23.0'	Radiolarian	probably Paleozoic	?		chert	4	forms, broken spums; rare, complex spicules spumellaria w/ pore structure				
	82AKy46	68 20.2'	155 44.0'	Radiolarian	probably Paleozoic	?		chert	4	like Paleozoic forms				
	82AKy57	68 22.9'	154 46.2'	Radiolarian	Latest Mississippian to Early Permian	?		chert	4	Spongodiscaceld, tetrahedral; Paronaella sp. cf. P. triporosa				
	83Mu73	68 24.0'	154 20.1'	Radiolarian	Late Paleozoic	B	NE side of Kikiktat Mtn	green-gray chert	5	possible Latentifistulid rods			?Picnic Creek	

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	84AMu16	68 34.6'	154 06.8'	Radiolarian	Late Paleozoic, question- ably Pennsylvanian/ Permian???	B	Itkillikruich Ridges	chert, blk to dark gray	5	lots of conodonts (?Ozarkodina), poss. benthic foram fragments, rad mesh fragments reminiscent of Penn. latentifistulids?? or a Permian form?			?Picnic Creek	
	82A1+0	68 23.5'	154 20.9'	Radiolarian	indeterminant	B	Akmalik Ck.	black chert	6	possible P. impella?				
	82A1+3	68 23.5'	154 20.9'	Radiolarian	</= Late Mississippian (Lower Meramecian)	B	Akmalik Ck.	black chert	6	P. impella Group				82A1+0
	82A1+4	68 23.5'	154 20.9'	Radiolarian	early Late Mississippian	B	Akmalik Ck.	black chert	6	P. impella Group				82A1+0
	82A1+6	68 23.5'	154 20.9'	Radiolarian	</= Late Mississippian (Middle Meramecian)	B	Akmalik Ck.	black chert	6	P. impella, Albaillella pennata or cartalla				82A1+0
	82A1+7.5	68 23.5'	154 20.9'	Radiolarian	Late Mississippian	B	Akmalik Ck.	black chert	6	P. impella, radiolarite				82A1+0
	82A1+9	68 23.5'	154 20.9'	Radiolarian	Late Mississippian (Mid- dle to Upper Meramecian)	B	Akmalik Ck.	black chert	6	P. impella, Albaillellas				82A1+0
	82A1+10	68 23.5'	154 20.9'	Radiolarian	Late Mississippian (Mid- dle to Upper Meramecian)	B	Akmalik Ck.	black chert	6	P. impella, Albaillellas				82A1+0
	82A1+13	68 23.5'	154 20.9'	Radiolarian	Late Mississippian	B	Akmalik Ck.	black chert	6	Albaillellas				82A1+0
	82A1+15	68 23.5'	154 20.9'	Radiolarian	indeterminant	B	Akmalik Ck.	black chert	6	no rads, 2 conodonts				82A1+0
	82A1+18	68 23.5'	154 20.9'	Radiolarian	indeterminant	B	Akmalik Ck.	black chert	6	poorly preserved rads				82A1+0
	82A1+19	68 23.5'	154 20.9'	Radiolarian	Late Mississippian	B	Akmalik Ck.	black chert	6	Albaillella, P. impella				82A1+0
	82A1+21	68 23.5'	154 20.9'	Radiolarian	indeterminant	B	Akmalik Ck.	black chert	6	featureless spheres				82A1+0
	82A1+22	68 23.5'	154 20.9'	Radiolarian	Late Mississippian, prob- ably into Chesterian	B	Akmalik Ck.	black chert	6	fragments of A. cartalla				82A1+0
	82A1+22	68 23.5'	154 20.9'	Conodont	Early Mississippian (Late Osagean) to Late Mississ- ippian (Early Chesterian)	?	Akmalik Ck.	black chert	6					82A1+0
	82A1+25	68 23.5'	154 20.9'	Radiolarian	indeterminant	B	Akmalik Ck.	black chert	6					82A1+0
	82A1+26	68 23.5'	154 20.9'	Conodont	Late Mississippian (Late Meramecian to Chesterian)	?	Akmalik Ck.	Top of Black Chert	6					82A1+0
	75ATr46.1	68 27.2'	155 44.0'	Ammonite	Early Pennsylvanian, probable Morrowan age	E	East side of Middle Otuk Ck.	ammonite in concretions in red clay shale above a chert outbank	13	possibly Pseudopronorites cf. P. Arkansiensis				
	82AMu55	68 23.7'	154 54.0'	Radiolarian	Late Mississippian to Early Pennsylvanian	B	West Kurupa	Permo-Triassic, light green-gray tuffaceous	4	Tetrahedral spongodiscaceid (?spongotripus), Paronaella cf. P. impella Group, bipolar forms			?Picnic Creek	
	84AMu24	68 23.4'	154 21.2'	Radiolarian	Late Mississippian (Ches- terian) to Early Pennsyl- vanian (Morrowan)	B	Akmalik Ck.	gray-green chert	5	tetrahedral spongodiscaceids, spongotripus			?Picnic Creek	
PERMIAN TO MISSISSIPPIAN ROCKS, AKMALIK														
	84AMu7	68 22.4'	154 19.2'	Conodont	Permian to Silurian	A	Akmalik Creek	Akmalik Chert	1		2-3	100	Picnic Creek	
	83AMu73-4	68 23.9'	154 20.7'	Conodont	Permian to Silurian	A	N.E. of Kikiktat Mtn.	Akmalik Chert	1		3	110-150	Ignavik River	
	85AAI156	68 22.6'	154 18.8'	Radiolarian	barren	C	Top of knob E. of Akmalik Ck.	Akmalik Chert, un- known strat. position	1				Picnic Creek	
	85AAI180c	68 22.6'	154 21.4'	Radiolarian	barren	C	top of ridge between Akmalik and Imnaitchiak Creeks	Akmalik Chert	1				Picnic Creek	~85AAI180a
	85AAI241b	68 22.6'	154 19.5'	Radiolarian	Late Mississippian to Pennsylvanian	B,C	E. wall of Akmalik Creek canyon	Akmalik Chert, 1m below top of section	1	Tetratormentum sp., Latentifistula? sp., Tormentum sp.			Picnic Creek	
	85ASI10-0.6	68 22.4'	154 45.6'	Conodont	probably Pennsylvanian	A	E. Kurupa Hills	Akmalik Chert; from a len- ticular bed of limestone, 1-12cm thick, 0.6m above base of Akmalik Chert measured section	1,41	1 Pa element of Gnathodus pseudosemiglaber (Thompson & Fellows), 1 Pa element fragment of Gnathodus sp. indet., 5 incomplete Pa elements of Polygnathus communis (Branson & Mehl), 3 M (2 morphotypes) & 1 Sc elements, 110 indet. bar, blade and platform fragments. This is a hydraulically broken	3-3.5	110-200	Picnic Creek	

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										collection of conodonts. The species association indicates a late Osagean through early Meramecian age, but the next sample in this section contains chiefly Osagean conodonts together with a few Penn. conos., so that this samples Osagean conos. must be reworked				
85ASI10-1.4	68 22.4'	154 45.6'	Conodont	Early Pennsylvanian, no older than Late Morrowan	A	E.Kurupa Hills	Akmalik Chert; med.-gray micrite-sparite w/ chert nodules in beds 30-50cm thick, from 1.4m above base of section	1,41	INDIG. AND/OR REDEPOS. LATE MORROWAN- EARLY PERMIAN CONO.: 1 posterior Pa element fragment of an Idiognathodid; REDEPOS. OSAGEAN CONO.: 2 Pa elements of Bispathodus stabilis (Branson & Mehl), 2 Pa element fragments of Gnathodus sp. indet., 3 Pa elements of Polygnathus communis (Branson & Mehl), 3 M (2 morphotypes), 1 Sb, & 4 Sc (2 morphotypes) elements, 75 indet. bar, blade and platform fragments. Most specimens are broken and all but possibly on specimen are redeposited.	3-3.5	110-200	Picnic Creek	85ASI10-0.6	
85ASI6-0.6	68 21.5'	154 20.1'	Conodont	Early Pennsylvanian, no older than Late Morrowan	A	Akmalik Ck.	Akmalik Chert; 0.6m above base of Akmalik Chert	1,41	INDIG. AND/OR REDEPOS. LATE MORROWAN- EARLYY ATOKAN CONO.: 1 Pa element of Declinognathus sp., 2 Pa elements of Idiognathus sp., 2 Pa elements of Streptognathodus sp.; REDEPOS. CHESTERIAN-VERY EARLIEST MORROWAN CONO.: 1 Pa element of Gnathodus bilineatus (Roundy); REDEPOS. OSAGEAN CONO.: 6 Pa elements of Ozarkodina crassidentatus (Branson & Mehl), 13 Pa elements of Polygnathus communis (B & M), 3 Pa elements of Prolognathodus praedelicatus (Lane, Sandberg & Zeigler), 8 Pa elements of Pseudopolygnathus militistriatus (Mehl & Thomas) morphotype 2, 4 Pb (3 morphotypes), 4 M (3 morphotypes), & 7 Sc (5 morphotypes) elements, +100 indet. bar, blade & platform fragments	3-3.5	110-200	Picnic Creek	85ASI10-0.6	
85ASI6-56.2	68 21.5'	154 20.1'	Conodont	Early Pennsylvanian, late Morrowan or younger Paleozoic	A	Akmalik Ck.	Akmalik Chert; same as 85ASI6-0.6 but 56.2m above base of Akmalik Cht.	1,41	1 S element fragment of post-Ordovician morphotype	3-3.5	110-200	Picnic Creek	85ASI6-0.6	
84AMu16	68 34.6'	154 6.8'	Conodont	Mississippian to Pennsylvanian	A	Itkillkuich Ridges	Akmalik Chert	1		2	60-110	Picnic Creek		
83AKy51-1	68 22.7'	154 47.5'	Conodont	Early Mississippian (Osagean), based on age restrictions from overlying sample and range of P. communis	A	E. Kurupa Hills	Akmalik Chert	1,42	1 Pa element fragment of Polygnathus communis (Branson & Mehl), 2 M elements of Carboniferous morphotype, 1 Sb element, 3 Sc elements, 7 indet. bar, and blade fragments	1.5	60-90	Picnic Creek	83AKy51-10	
83AKy51-10	68 22.7'	154 47.5'	Conodont	Early Mississippian (Middle Osagean)	A	E. Kurupa Hills	Akmalik Chert	1,42	1 fragment of Hindeodella segaformis Bischoff s.f., 15 indet. bar and blade fragments	1.5	60-90	Picnic Creek	83AKy51-1	
83AI+9	68 21.5'	154 20.1'	Conodont	indeterminant	A	Akmalik Ck.	Akmalik Chert	1,42	2 indet. bar fragments of post-Ordovician morphotype	2	60-110	Picnic Creek		
83AI+10	68 21.5'	154 20.1'	Conodont	indeterminant	A	Akmalik Ck.	Akmalik Chert	1,42	1 indet. bar fragment of post-Ordovician morphotype	2	60-110	Picnic Creek	83AI+9	
83AI+15	68 21.5'	154 20.1'	Conodont	indeterminant	A	Akmalik Ck.	Akmalik Chert	1,42	1 indet. bar frag. of post-Ordovician morphotype	2.5	70-110	Picnic Creek	83AI+9	
83AI+19	68 21.5'	154 20.1'	Conodont	indeterminant	A	Akmalik Ck.	Akmalik Chert	1,42	1 indet. bar frag. of post-Ordovician morphotype	2.5	70-110	Picnic Creek	83AI+9	
83AI+22	68 21.5'	154 20.1'	Conodont	Mississippian (Late Osagian to Early Chesterian)	A	Akmalik Ck.	Akmalik Chert	1,42	1 Pa element of Gnathodus Texanus Roundy	2.5	70-110	Picnic Creek	83AI+9	
83AI+26	68 21.5'	154 20.1'	Conodont	Mississippian (Late Merimecian to Chesterian)	A	Akmalik Ck.	Akmalik Chert	1,42	1 Pa element of Gnathodus commutatus (Branson & Mehl)	2.5	70-110	Picnic Creek	83AI+9	
83AI+30	68 21.5'	154 20.1'	Conodont	indeterminant	A	Akmalik Ck.	Akmalik Chert	1,42	4 indet. bar frags. of post-Ordovician morphotype	2.5	70-110	Picnic Creek	83AI+9	
83AI+34	68 21.5'	154 20.1'	Conodont	indeterminant	A	Akmalik Ck.	Akmalik Chert	1,42	1 indet. bar frag. of post-Ordovician morphotype	2.5	70-110	Picnic Creek	83AI+9	
83AMu6-2	68 31.6'	154 25.0'	Conodont	Late Mississippian	A	Travelaire Ck.	Akmalik Chert	1		2	60-110	Picnic Creek		
83Bo244	68 22.9'	154 46.8'	Conodont	Late Devonian to Early	A	E. Kurupa Hills	Akmalik Chert, black	1,45	1 Pa element fragment of Ozarkodina sp. indet. (long	3	110-150	Picnic Creek		

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					Mississippian			limestone		bladed morphotype of Late Dev.-Early Miss. age),				
										46 indet. bar, blade and platform fragments. All				
										conodont elements are extremely broken.				
PENNSYLVANIAN TO MISSISSIPPIAN ROCKS, LISBURNE GROUP														
	83Mu6-2	68 31.3'	154 20.8'	Conodont	Late Mississippian	A	west side of Travelaine Ck.	Lisburne Grp.?, black	4 5	1 incomplete Pa element of Gnathodus cf. G. bilineatus	2	60-100		
								chert and limestone		(Roundy), 3 indet. bar or blade fragments				
	83Ask315d	68 21.5'	154 19.0'	Conodont	earliest Middle Pennsylvan-	A,V	Upper Akmalik Ck.	Lisburne Grp., 2m below	1,3,50	INDIG. AND/OR REDEPOS. EARLY LATE MOR-	3.5-4	150-200	Endicott Mtns.	
					ian, no older than earliest			the top		ROWAN CONO.: 3 incomplete Pa elements of Adeto-				
					Late Morrowan. It could be					gnathus sp. indet., 5 Pa elements of Declinognathodus				
					younger, especially if the					noduliferous (Ellison & Graves), 31 Pa elements of				
					younger cono. are redepos.					Idiognathodus cf. I. delicatus (Gunnell); REDEPOS.				
										LATE MISSISSIPPIAN AND EARLY MORROWAN				
										CONO.: 1 Pa element of Gnathodus bilineatus				
										(Roundy), 8 Pa elements of Gnathodus girtyi (Hass),				
										1 Pa element of Rhachistognathus sp.; 84 indet. bar,				
										blade and platform fragments				
	85AAI091b	68 24.2'	154 16.1'	Radiolarian	Early Pennsylvanian to	B,C	E. flank of E.	Chert near base of un-	1	Tormentum sp., Albaillella sp., Tetratormentum			Nuka River/	
					Late Mississippian		Kikiktat Mtn.	named Kikiktat basalt		sp., Pseudoalbaillella? sp.			Copter Peak	
	85AAI094d	68 24.4'	154 15.8'	Radiolarian	Barren?	C	E. flank of E.	Disturbed zone at base	1				Ipnavik River/	
							Kikiktat Mtn.	of Kikiktat basalt					Nuka River/	
								(Sequence E)					Copter Peak?	
	85AAI161a	68 23.4'	154 18.2'	Radiolarian	Indeterminant	B	S.W. flank of	Chert intercalated	1				Nuka River/	
							E. Kikiktat Mtn.	in Kikiktat basalt					Copter Peak	
	85AAI168	68 23.4'	154 17.0'	Radiolarian	Early Pennsylvanian?	B	S. flank of	Chert intercalated	1	fragments of Albaillellid, Tetratormentum			Nuka River/	
							E. Kikiktat Mtn.	in Kikiktat basalt		and bi-polar forms			Copter Peak	
	85AAI170	68 23.4'	154 17.0'	Radiolarian	Pennsylvanian?	B	S. flank of	Chert at base of	1	fragments-poorly preserved Tetratormentum forms			Nuka River/	85AAI168
							E. Kikiktat Mtn.	Kikiktat basalt					Copter Peak	
	85AAI210a	68 23.5'	154 20.1'	Radiolarian	Indeterminant	B	S.E. flank of W.	Chert intercalated	1				Nuka River/	
							Kikiktat Mtn.	in Kikiktat basalt					Copter Peak	
	85AAI247a	68 23.2'	154 16.1'	Radiolarian	Indeterminant	B	S.W. flank of E.	Chert intercalated	1				Nuka River/	
							Kikiktat Mtn.	in Kikiktat basalt					Copter Peak	
	85AAI129	68 22.9'	154 19.7'	Radiolarian	Early Pennsylvanian to	B,C	Lower Akmalik Ck.	Lower Akmalik Chaos	1	Tetratormentum sp., Tormentum sp.,			Picnic Creek	
					Late Mississippian					Albaillellid? sp.				
	85AAI143c	68 22.2'	154 19.2'	Radiolarian	Pennsylvanian?	B	Upper Akmalik Ck.	Upper Akmalik Chaos	1	Latentifistulid fragments			Endicott Mtns./	
													Picnic Creek	
	83Ask287	68 29.1'	154 25.5'	Radiolarian	Indeterminant	B,C	Wolf Ck.	unnamed Black Chert	2,3				Picnic Creek	
	83Ask413	68 20.8'	154 38.5'	Radiolarian	Late Mississippian	B,C	Kurupa Lake	Unnamed Black Chert	2,3	spongy tetrahedral Latentifistulidea sp.			Picnic Creek	83Ask402
					(Chesterian) or Early									
					Pennsylvanian (Morrowan)									
	82AMu5	68 19.5'	155 41.5'	Spicules	Indeterminant	?	Otuk Ck.	Kuna Chert	4	spicules			Endicott Mtns.	
	82AKy1	68 25.4'	154 20.3'	Radiolarian,	Late Mississippian to	?		chert	4	Spongotripus, tets, spicules				
				Spicules	Early Pennsylvanian									
	82AKy20c	68 22.9'	155 41.4'	Radiolarian	Late Mississippian to	?		chert	4	Paronaella impella Group arms				
					Early Pennsylvanian									
	82AKy20b	68 22.9'	155 41.4'	Radiolarian	Mississippian to	?		chert, fossiliferous,	4	"?Parahagiastriids" Paronaella sp. cf. P.				82AKy20c
					Pennsylvanian(?)			shallow water likely		impella Group				
	83Mu20-1	68 29.9'	154 26.5'	Radiolarian	Late Mississippian (Ches-	B	Imnaitchiak Ck.	green-gray chert, banded	5	tetrahedral spongodiscacelds				
					terian) to Early Pennsyl-									
					vanian (Morrowan)									
	83Mu10-3	68 29.0'	154 25.7'	Radiolarian	Late Mississippian (Ches-	B	E. of Imnaitchiak Ck.	siliceous chert, shale	5	tets, heavy bi-polar forms, bladed spine			?Picnic Creek	
					terian) to Early Pennsyl-					forms, latentifistulids, ?albaillellids, poss.				
					vanian (Morrowan)					A. pennata				
	83AMu41	68 23.4'	154 54.6'	Radiolarian	Late Mississippian (Ches-	B	W. fork Kurupa River	Lisburne Grp. Chert,	5	Latentifistula impella fragments, 1 albaille-				

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					terian) to Early Pennsylvanian (Morrowan)			black-white banded		Ilid, looks like A. pennate				
81AMu10	68 29.4'	154 29.3'	Coral	Mississippian to Pennsylvanian, >=Desmoinesian	O	Oolamnagavik River	Nuka Fmn.		28	Amplexizaphrentis sp.				
75AMu48	68 28.8'	155 42.5'	Palanomorph	Carboniferous, probably Mississippian	P				33	Calamospora sp., Endosporites sp., Densosporites sp., Lycospora sp., Tripartites sp.				
85AKA2-82	68 23.2'	154 20.5'	Conodont	latest Devonian (Late Fam-enian) to late Early Mississippian (Middle Osagean); probably can be restricted to the Early Mississippian	A	Zebra Creek section	Akmalik Chert; limey facies 82m above base of section, dk. gray, med. xbdd, 30cm thick dolo. bed in an interval of med.-dk. gray, partly siliceous, partly lamin. and ripple lamin. micrite at base grading upward into dk. gray to blk., partly calcareous shales.	40		1 Pa element of Bispathodus cf. B. stabilis (Branson & Mehl), 9 indet. bar, blade, and platform fragments	2.5	>/= 100		
85AKA-7	68 23.2'	154 20.5'	Conodont	Early Mississippian (Middle Osagean)	A	Zebra Creek Section	Akmalik Chert; from cherty limestone 7m above base of section, from 60m thick unit w/ cycles of fining-upward, med. gray to blk., parallel-lamin. and partly small scale, low-angle planar & trough xbdd limest. interbdd. w/ blk. siliceous mudstone & minor blk shale	40		2 Pa fragments of Gnathodus aff. G. delicatus Bischoff elements, 6 Pa elements of Gnathodus semiglaber, 12 juvenile and (or) incomplete Pa elements of Gnathodus sp. indet., 1 Sb element of Hindeodus scitulus? (Hinde), 118 "Hindeodella" segaformis Bischoff s.f. elements, 16 Pa elements of Polygnathus communis communis (Branson & Mehl), 1 Pa element fragment of Pseudopolygnathus sp. indet.; UNASSIGNED ELEMENTS: 21 Pb (4 morphotypes), 30 M (+5 morphotypes), 2 Sa, 2 Sb (2 morphotypes) & 18 Sc (5 morphotypes), 278 Indet. bar, blade, and platform fragments	3	>/= 120-140		85AKA2-82
85AKA-136.8	68 23.2'	154 20.5'	Conodont	Early Mississippian (Middle Osagean) to Late Mississippian (Early Meramecian)	A	Zebra Creek Section	Akmalik Chert; from 136.8 meters above base of section from slightly dolomitic micrite in fining-upward unit of med. gray to blk., partly cherty & dolomitic micrite w/ parallel lamin. & minor trough x-lamination	40		2 Pa & 1 Pb elements Bispathodus stabilis (Branson & Mehl), 3 Pa & 1 Sc elements Hindeodus cf. H. scitulus (Hinde); UNASSIGNED ELEMENTS: 4 Pb (4 morphotypes), 5 M (3 morphotypes) & 7 Sc (3 morphotypes), 75 indet. bar, blade and platform fragments	3			85AKA2-82
85AMu2-11	68 22.0'	154 12.0'	Conodont	Late Mississippian (latest Meramecian to early Chesterian)	A,U	E. Akmalik Ck.	Lisburne Group. limestone, from 9.5m below top	1,49		1 Pa element of Cavusgnathus sp., 9 Pa elements of Gnathodus bilineatus (Roundy), 19 Pa elements of Gnathodus texanus (Roundy); Kladoagnathus cf. K. tenuis (Branson & Mehl), 1 M, 1 Sb(?) & 7 Sc elements; 53 Pa elements of Paragnathodus commutatus (B & M), 1 Pb, 7 M (2 morphotypes) & 2 Sa elements, 36 indet. bar, blade and platform fragments	3	110-160	Endicott Mtns.	85AMu2-9
85AMu2-9	68 22.0'	154 12.0'	Conodont	Pennsylvanian, no older than late Morrowan	A,U	E. Akmalik Ck.	Lisburne Grp., limestone from 0.5m below top	49		REDEPOS. AND/OR INDIG. LATE MORROWAN-LATE WOLFCAMPION CONO.: 37 Pa elements of the Idiognathodus-streptognathodus plexus; REDEPOS. AND/OR INDIGENOUS MORROWAN-ATOKAN CONO.: 11 Pa elements of Declinognathodus noduliferous (Ellison & Graves), 4 Pa elements of Idiognathoides sp.; REDEPOS. LATE MISSISSIPPIAN (CHIEFLY CHESTERIAN) CONO.: 18 Pa elements of Gnathodus bilineatus (Roundy), 5 Pa elements of Gnathodus girtyi (Hass); 63 indet. bar, blade and platform fragments; 10 ichthyoliths	3			

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MISSISSIPPIAN ROCKS,													
82AMu39-6	68 20.7'	154 41.2'	Brachiopod,	probably Early	E	Otuk Ck.	silty, red-br weathering	29	echinodermal debris, indet., several small				
83ASk216	68 31.8'	154 40.8'	Echinoderm	Mississippian			platy ls of Utukok? Fmn.		rhynchonelloid brachiopods, Paraphorhynchus?				
			Brachiopod,	indeterminant	E	E. Heather Ck.	limestone tectonic block	29	silicified fragments of indet. echinoderm				
			Coral,				Lisburne ???		debris, horn corals, and brachiopods				
			Echinoderm										
83KA7-6	68 26.5'	154 25.1'	Coral	lkely Mississippian	O	W. side Imnaitchiak Ck.	Lisburne Grp., possibly	28	Columellate horn coral, indet.				
							Alapah Limestone						
79Ek296b	68 26.8'	155 52.5'	Conodont	Mississippian	A	Ivotuk Hills	Lisburne Group. limest.	1,48		1.5-2	50-140	Endicott Mtns.	
79Tr177f	68 28.6'	155 42.2'	Conodont	Mississippian	A	Ivotuk Hills	Lisburne Group. limest.,	1,48		1.5	50-90	Endicott Mtns.	
85ASI20-8.5	68 21.5'	154 19.5'	Conodont	Late Mississippian	A	Upper Akmalik Ck.	Lisburne Group. limest.,	1		3.5-4	150-200	Endicott Mtns.	85ASI20-0
							8.5m from top						
85ASI20-41	68 21.5'	154 19.5'	Conodont	Late Mississippian	A	Upper Akmalik Ck.	Lisburne Group. limest.,	1		3.5-4	150-200	Endicott Mtns.	85ASI20-0
							41m from top						
85ASI24	68 19.6'	154 58.7'	Conodont	Late Mississippian (latest	T	E. Fk. Outwash Ck.	Lisburne Group. limest.,	1,44	3 Kladoognathus sp. elements (all incomplete), 12 Pa	4	190-300	Endicott Mtns.	
				Meramecian to early			20m(?) from top		elements of Gnathodus texanus Roundy, 2 Pa ele-				
				Chesterian)					ments of "Ozarkodina" sp. trans. to "Gnathodus" sp.,				
									2 Pa elements of Paragnathodus commutatus (Branson				
									& Mehl), 2 Pa elements of Rhachistognathus n. sp.,				
									5 Pb, 1 M, 1 Sa, 2 Sb & 2 Sc elements, 65 indet. bar				
									blade and platform fragments				
85ASI26-29	68 21.5'	154 21.9'	Conodont	Late Mississippian	A	West Akmalik Ck.	Lisburne Group. limest.,	1		2.5-3	110-150	Endicott Mtns.	85ASI26-0.1
							29m from top						
83ASk371	68 22.8'	154 12.5'	Radiolarian	Late Mississippian (Mer-	B,C	E. Akmalik Ck.	unnamed Black Chert	2,3	Latentifistula impella, Albaillella sp.,			Picnic Creek	
				amecian or Chesterian)					spumellarians				
83ASk372	68 22.8'	154 12.5'	Radiolarian	Late Mississippian (Mer-	B,C	E. Akmalik Ck.	unnamed Black Chert	2,3	spheroidal spumellarians			Picnic Creek	83ASk371
				amecian or Chesterian)									
83ASk373	68 22.8'	154 12.5'	Radiolarian	Late Mississippian (Mer-	B,C	E. Akmalik Ck.	unnamed Black Chert	2,3	Latentifistula impella			Picnic Creek	83ASk371
				amecian or Chesterian)									
83ASk374	68 22.8'	154 12.5'	Radiolarian	Late Mississippian (Mer-	B,C	E. Akmalik Ck.	unnamed Black Chert	2,3	Latentifistula impella, spumellarians (bi-polar			Picnic Creek	83ASk371
				amecian or Chesterian)					spines)				
83ASk375	68 22.8'	154 12.5'	Radiolarian	indeterminant	B,C	E. Akmalik Ck.	unnamed Black Chert	2,3				Picnic Creek	83ASk371
83ASk376	68 22.8'	154 12.5'	Radiolarian	Late Mississippian (Mer-	B,C	E. Akmalik Ck.	gray chert below	2,3	Latentifistula impella, L. ruetae, L. spp.			Picnic Creek	83ASk371
				amecian or Chesterian)			oncolite						
83ASk378	68 22.8'	154 12.5'	Radiolarian	indeterminant	B,C	E. Akmalik Ck.	gray chert, base of	2,3	spumellarians (simple spines)			Picnic Creek	83ASk371
							oncolite						
83ASk414	68 20.8'	154 38.5'	Radiolarian	Late Mississippian (Mer-	B,C	Kurupa Lake	Unnamed Black Chert	2,3	Latentifistula impella			Picnic Creek	83ASk402
				amecian or Chesterian)									
82AMu46	68 29.3'	155 52.0'	Radiolarian	Late Mississippian	?	Ileriak Ck.	black-white banded	4	Paronaella sp. cf. impella Group, Albaille-				
							chert		lla sp.				
82AMu15	68 23.6'	154 13.0'	Radiolarian	Late Mississippian	?	Kikiktat Mtn.	sub-mafic cherts	4	Spongodiscaceid (tetrahedral forms)				
82AMu34-6	68 23.8'	154 22.0'	Radiolarian	Middle to Late	B	West Kikiktat Ridge	Lisburne Chert, Lime-	4	Albaillella sp., complex spicules				
				Mississippian			stone, Dolomite						
82AMu41-1	68 21.5'	155 40.5'	Radiolarian	Late Mississippian (Mer-	?	Otuk Ck.	Permo-Triassic? Chert	4	Albaillella cf. cartalla				
				amecian)									
82AKy55a	68 22.7'	154 47.1'	Radiolarian	Late Mississippian	?		chert	4	?Paronaella sp., large open mesh, internal				
									rids; bi-polar, spicules, poss. Latenodiotids				
83Bo188	68 20.6'	154 28.5'	Ostracode	Paleozoic to Cretaceous	D	S.E. of Kurupa Hills	Lisburne Group. limest.	7	Steinkern of a smooth ostracode, phosphatic				
				Mississippian field age					suborder Metacopida				
83AMu16-7	68 24.2'	154 30.4'	Pelecypods,	Mississippian	E	Middle fork of Imnait-	dolomite and chert of	9	orthotetid brachiopod, indet., echinoderm			?Endicott Mtns.	
			Brachiopods			chiak Ck.	the Lisburne Grp., Kuna?		debris, indet., Setigerites? sp., Quadratia?				
									sp., Astartella? sp. (pelecypod)				

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	83AMu16-8	68 24.4'	154 30.5'	Brachiopods, Echinoderms	Mississippian	E	Middle fork of Innait- chiak Ck.	dark chert and shale Field ID Hunt Fork but may be Kuna instead	9	platicrinidit columnals indet., Schizophoria sp., orthotetid brachiopod, indet., Retichon- etes sp., Quadratia sp., Setigerites? sp., rhynchonelloid frags., indet.			?Endicott Mtns.	~83AMu16-7
chk	83AMu31	?		Plants	Early Mississippian (Tournasian to Visean)	K	Kurupa Hills		23	Tomiodendron varium (Radczenko), Meyen.				
chk	84AMu31	?		Plants	Early Mississippian (Tournasian to Visean)	K	Kurupa Hills		23	Tomiodendron varium (Radczenko) Meyen., Angar- opholios cf. alternans (Schmalhausen) Meyen.				83AMu31?
chk	84AMu19	?		Plants	Early Mississippian (Tournasian to Visean)	K	Chert Fork Innait- chiak Ck.		23	Tomiodendron varium (Radczenko), Meyen.				
chk	83KA15-2	?		Plants	Early Mississippian (Tournasian to Visean)	K	Kurupa Hills		23	Tomiodendron varium (Radczenko), Meyen.				
chk	83KA17-2	?		Plants	Early Mississippian (Tournasian to Visean)	K	S. Kikiktat Mtn.		23	Tomiodendron varium (Radczenko), Meyen.				
chk	83Bo236	?		Plants	Early Mississippian (Tournasian to Visean)	K	Kurupa Hills		23	Tomiodendron varium (Radczenko), Meyen.				
chk	83ASK360	?		Plants	Late Mississippian (Chesterian)	K	Kurupa Hills	cherty	23	unnamed genus combining characteristics of Tomiodendron & Angaropholios				
chk	18d-DB-81	?		Plants	probably Mississippian	L		dark gray sandstone	24	compressed plant axes w/ ridges suggesting a Lepidodendropsis stem				
	75AMu39	68 33.8'	154 20.3'	Brachiopods, Echinoderm	Early Mississippian (Early Osagean (approx.))	E	Akmalik Ck.	limestone, Kayak Fmn.	30	echino. debris, indet., Rugosochonetes sp., Brachythyris cf. B. Choteauensis (Weller), Unispirifer aff. U. tornacensis (De Koninck), Spirifer cf. S. Rowleyi (Weller), Tornyifer? sp., Orthonychia sp., bellerophontid?, indet.				
	83AMu35-6	68 19.3'	154 22.4'	Brachiopods, Echinoderm, Coral, Gastropod, Fish Teeth	Early Mississippian (Early Osagean (approx.))	E	Upper Akmalik Ck.	silty limestone, Kayak Fmn.	30	echino. debris, indet., horn corals, indet., orthotetid, indet., Marginatia cf. M. Burling- tonensis (Hall)/(Abundant), rhynchonelloid, indet., Unispirifer cf. U. tornacensis (De Koninck), Spirifer sp., Brachythyris cf. B. choteauensis (Weller), Orthonychia sp., low- spired gastropod, indet., bellerophontid, indet., fish teeth (abraded) indet.				
	83AMu40-6	68 19.7'	154 36.3'	Brachiopods, Echinoderm	Early Mississippian (Early Osagean (approx.))	E	Upper Kurupa River	Kayak Fmn. float	30	echino. debris, indet., productoid fragments, indet., Unispirifer cf. U. tornacensis, abun- dant (De Koninck), Spirifer sp., phosphatic pebbles				
	83ABo	68 19.3'	154 28.8'	Brachiopods, Echinoderm, Cephalopod	Early Mississippian (Early Osagean (approx.))	E	SE of Kurupa Lake	Kayak Fmn.	30	echino. debris, indet., Rugosochonetes? sp., rhynchonelloid, indet., Unispirifer sp., Brachythyris cf. B. Choteauensis (Weller), Punctospirifer cf. P. solidirostris (White), orthoconic cephalopod, indet.				
	83ABo187	68 19.4'	154 28.9'	Brachiopods, Echinoderm	Early Mississippian (Early Osagean (approx.))	E	SE of Kurupa Lake	Kayak Fmn.	30	echino. debris, indet., rhynchonelloid, indet., Unispirifer cf. U. tornacensis (De Koninck), Spirifer sp.				
	83ASK313	68 19.4'	154 28.1'	Brachiopods, Echinoderm, Bryozoans, Gastropod	Early Mississippian (Early Osagean (approx.))	E	S. of Kurupa Lake	Limestone, Kayak Fmn.	30	echino. debris, indet., platicrinidit column- als, indet., fenestrate bryozoans, indet., orthotetid, indet., Rugosochonetes sp., rhyn- chonellids, indet., Spirifer sp., gastropod steinkerns, indet.				
	75AMu48	68 28.8'	155 42.5'	Foraminifera	indeterminant	P	Otuk Ck, Ivotuk Hills area	Kayak immed. underlying Otuk Ridge dolomite, dk. brown bentonitic shale	33	Hyperammina sp.				
	90AMu81	68 24.5'	155 58.0'	Conodont	Early Mississippian (Middle	A	head of SW fork of	spiculitic gray limest. w/	37	5 Pa elements of Bispathodus utahensis (Sandberg &	1-1.5	50-80	Picnic Creek or	

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					Osagean)		Ileriak Ck.	blk. chert of Lisburne Grp.		Gutschick), 1 Pa element of <i>Dolyma</i> <i>hassi</i> (Voges),			Ipnavik River
					Upper typicus Subzone to			Sample is from low in the		48 Pa elements of <i>Gnathodus cuneiformis</i> (Mehl &			
					lower half of anchoralis-			Lisburne Grp. and overlies		Thomas), 49 <i>Kladognathus</i> spp. elements, 5 Pa			
					latus Zone			the Kurupa Sandstone		<i>Pseudopolygnathus multistriatus</i> (M & T), 78 Pa			
										elements of <i>Pseudopolygnathus oxypageus</i> (Lane,			
										Sandberg & Zeigler) (chiefly morphotype 2), 4 Pa			
										elements of <i>Pseudopolygnathus triangulus</i> (V), 58 Pa			
										elements of <i>Polygnathus communis communis</i> (Brans-			
										son & Mehl); UNASSIGNED ELEMENTS: 110			
										Pb (+6 morphotypes), 129 M (+5 morphotypes), 5			
										Sa (4 morphotypes), 6 Sb (4 morphotypes) & 26 Sc			
										(+4 morphotypes), and +400 indet. bar, blade and			
										platform frags.; REDEPOSITED (LATE KINDER-			
										HOOKIAN AGE): 6 Pa elements of <i>Gnathodus</i>			
										<i>punctatus</i> (Cooper), <i>Siphonodella isosticha</i> (Cooper)			
										transitional to <i>S. obsoleta</i> Hass, 12 Pa & 2 Pb elem.			
85ASI14-18	68 28.7'	155 42.4'	Conodont	late Late Mississippian	T	Ivotuk Hills	grayish-black micrite to	39,44	REDEPOS. LATE MERAMECIAN-CHESTERIAN	1.5			
				(Chesterian)			sparite from 11 m below		CONO.: 5 Pa elements of <i>Gnathodus bilineatus</i>				
							top of Lisburne Group		(Roundy), REDEPOS. AND/OR INDIG. MORROWAN-				
									ATOKAN CONODONTS: 6 juvenile Pa elements of				
									<i>Declinognathodus</i> ? cf. <i>D. noduliferous</i> (Ellison &				
									Graves); 5 incomplete Pa elements of <i>Gnathodus</i>				
									<i>girtyi</i> simplex Dunn, 15 indet. bar, blade, and				
									platform fragments, 1 <i>Ichthyolith</i>				
85ASI20-41	68 21.5'	154 19.5'	Conodont	middle Late Mississippian	A	Upper Akmalik Ck.	bioclastic limestone from	39	<i>Bispathodus stabilis</i> (Branson & Mehl), 48 Pa, 1 Pb,	~ 3			85ASI20-0
				(late Meramecian to Early			41m below the top of the		2 Sa & 2 Sc elements; 2 Pa elements of <i>Cavus-</i>				
				Chesterian), possible Late			Lisburne Group		<i>gnathus</i> sp. <i>Hindeodus scitulus</i> (Hinde), 1 Pa & 1 Sa				
				Meramecian					elements; <i>Kladognathus</i> sp. (all fragments), 1M,				
									5 Sb & 4 Sc elements; 2 unassigned M elements, 74				
									indet. bar, blade, and platform fragments				
85ASI20-29	68 21.5'	154 19.5'	Conodont	Late Mississippian (very	A	Upper Akmalik Ck.	Lisburne Group, from 29m	39	95 Pa elements of <i>Bispathodus stabilis</i> (Branson &	3			85ASI20-41
				Late Meramecian to Early			below the top.		Mehl); 21 Pa elements of <i>Cavusgnathus unicornis</i>				
				Chesterian(?))					Youngquist & Miller; 7 Pa elements of <i>Gnathodus</i>				
									<i>girtyi</i> simplex Dunn; <i>Hindeodus scitulus</i> (Hinde),				
									15 Pa, 1 Pb & 84 S elements; <i>Idioproniodus</i> sp.				
									indet., 2 M & 1 Sb elements; <i>Kladognathus</i> sp.,				
									1 M, 18 Sa, 18 Sb & 62 Sc elements; UNASSIGN-				
									ED ELEMENTS: 5 Pb (3 morphotypes, 32 M (+4				
									morphotypes), 2 Sa & 1 Sc, +150 indet. bar, blade,				
									and platform fragments				
85ASI20-19	68 21.5'	154 19.5'	Conodont	Late Mississippian (very	A	Upper Akmalik Ck.	Lisburne Group, from 19m	39	1 Pa element of <i>Cavusgnathus unicornis</i> Youngquist	3-3.5			85ASI20-41
				Late Meramecian to Early			below the top		& Miller; 1 Pa element of <i>Gnathodus</i> aff. <i>G. texanus</i>				
				Chesterian)					Roundy; 11 Pa elements of <i>Gnathodus semiglaber</i>				
									Bischoff transitional to <i>Gnathodus bilineatus</i>				
									(Roundy); 7 juvenile Pa elements of <i>Gnathodus</i> sp.				
									indet; UNASSIGNED ELEMENTS: 5 Pb (4 morph-				
									otypes), 4 M (3 morphotypes), 3 Sa (2 morphotypes),				
									1 Sb & 5 Sc (4 morphotypes), 85 indet. bar, blade,				
									and platform fragments				
85ASI20-8.5	68 21.5'	154 19.5'	Conodont	Late Mississippian (Early	A	Upper Akmalik Ck.	Lisburne Group, bioclastic	39	3 incomplete Pa elements of <i>Cavusgnathus</i> sp.	3-3.5			85ASI20-41
				Chesterian)			grainstone from 8.5m		indet.; 14 Pa elements of <i>Gnathodus bilineatus</i>				
							below top		(Roundy)-[a few specimens transitional to <i>Gn. semi-</i>				
									<i>glaber</i>]; 45 Pa elements of <i>Gnathodus texanus</i>				
									Roundy; 1 Sb & 11 Sc element fragments of <i>Klado-</i>				

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										gnathus sp. indet.; UNASSIGNED ELEMENTS: 1 Pb, 8 M (4 morphotypes), 1 Sa & 51 Sc, 27 indet. bar, blade, and platform fragments			
85ASI20-6	68 21.5'	154 19.5'	Conodont	Late Mississippian (Early Chesterian)	A	Upper Akmalik Ck.	Lisburne Group, from 6m below top	39	6 Pa elements of Cacusgnathus unicornis Youngquist & Miller; 4 Pa elements of Gnathodus bilineatus bilineatus (Roundy); 3 incomplete Pa elements of Gnathodus aff. G. b. bilineatus (Roundy); 178 Pa elements Gnathodus girtyi simplex Dunn; 1 Pa element Gnathodus texanus Roundy; 2 juvenial Pa elements of Gnathodus sp. indet.; 1 Pa element fragment of Hindeodus aff. H. minutus (Ellison); 1 Pa element fragment of Hindeodus sp. indet.; Klado-gnathus sp. indet. (all fragments) 1 Pa & 1 Sa element; 11 Pa elements of Vogelgnathus postcampbelli (Austin & Husr); UNASSIGNED ELEMENTS: 2 Pb, 7 M (2 morphotypes) & 2 Sc; 118 indet. bar, blade, and platform fragments, common phosphatized echinoderm fragments	3-3.5			85ASI20-41
85ASI20-0	68 21.5'	154 19.5'	Conodont	Late Mississippian (no older than Late Morrowan)	A	Upper Akmalik Ck.	crinoidal limestone from the upper 30cm of the Lisburne Group	39	REDEPOS. AND (OR) INDIG. LATE MORROWAN-WOLFCAMPION CONO.: 50 Pa elements Idiognathodus sp. indet. (all are abraded); REDEPOS. AND (OR) INDIG. MORROWAN-EARLY ATOKAN CONO.: 21 Pa elements Declinognathodus noduliferous noduliferous (Ellison & Graves); 1 Pa element Declinognathodus noduliferous japonicus (Igo & Kolke); REDEPOS. CHESTERIAN CONO.: 69 Pa elements Gnathodus bilineatus (Roundy); 19 Pa elements Gnathodus girtyi simplex Dunn; 4 Pa elements Lochreia commutatus (Branson & Mehl); 74 indet bar, blade, and platform fragments	3-3.5			85ASI20-41
85ASI26-29	68 21.5'	154 21.9'	Conodont	Late Mississippian (Late Meramecian)	A	Akmalik Valley	black to gray, dolomitic, silicified micrite, from 29m below top of the Lisburne Group	A	26 Pa elements of Bispathodus stabilis (Branson & Mehl); 3 Pa elements of Cavusgnathus unicornis Youngquist & Miller; Kladoagnathus sp. indet., 3 M & 21 Sc elements; 16 indet. bar, blade, and platform fragments	2-2.5			
85ASI26-17.5	68 21.5'	154 21.9'	Conodont	Late Mississippian (Late Meramecian)	A	Akmalik Valley	from 17.5m below top of Lisburne Group, very large heavy-mineral concentrate, abundance of phosphatized bioclastic grains	39	2 Pa elements Cavusgnathus sp. indet.; 129 Pa elements Ganthodus texanus Roundy; 8 Pa elements Gnathodus semiglaber Bischoff; 7 juvenile Pa elements Gnathodus sp. indet.; Idioprioniodus sp. indet. (all frags.), 4 M, 4 Sa, 2 Sb & 5 Sc elements; UNASSIGNED ELEMENTS: 11 Pb (3 morphotypes); 59 indet. bar, blade, and platform frags., common phosphatized echinoderm frags. and ostracodes; rare fluorite	2-2.5			85ASI26-29
85ASI26-10	68 21.5'	154 21.9'	Conodont	Late Mississippian (Early Chesterian)	A	Akmalik Valley	from 10m below top of the Lisburne Group	39	11 Pa elements Gnathodus bilineatus bilineatus (Roundy); 10 Pa elements Ganthodus bilineatus (Roundy); 5 Pa elements Ganthodus girtyi girtyi Hass; 102 Pa elements Gnathodus girtyi simplex Dunn; Kladoagnathus sp. indet., 4 M, 3 Sa & 2 Sb elements; 16 Pa elements Lochreia commutatus (Branson & Mehl); 7 Pa elements Vogelgnathus postcampbelli (Austin & Husr); UNASSIGNED ELEMENTS: 12 Pb (4 morphotypes), 4 M (2 morphotypes), 1 Sa, 1Sb & 5 Sc; +150 indet. bar,	2-2.5			85ASI26-29

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chk field#	85ASI26-0.1	68 21.5'	154 21.9'	Conodont	Pennsylvanian (no older than Late Morrowan; could be as young as Middle Permian)	A	Akmalik Valley	medium- to coarsely-xln, gray limestone from the uppermost 10cm of the Lisburne Group	39	blade, and platform fragments REDEPOS. AND (OR) INDIG. LATE MORROWAN-WOLFCAMPAN CONO.: 33 Pa elements of Idiognathodus sp. indet. (all water worn); REDEPOS. AND (OR) INDIG. MORROWAN-EARLY ATOKAN CONO.: 1 Pa element Declinognathodus noduliferus (Ellison & Graves); REDEPOS. AND (OR) INDIG. MORROWAN CONO.: 2 Pa elements Idiognathoides sinuatus Harris & Hollingsworth; 3 Pa elements Idiognathoides sulcatus Higgins & Bouckaert; REDEPOS. EARLY MORROWAN CONO.: 2 Pa elements of Rhachistognathus websteri Baesemann & Lane; REDEPOS. CHESTERIAN CONO.: 3 Pa elements Gnathodus bilineatus (Roundy); 24 Pa elements Gnathodus girtyi simplex Dunn; 1 Pa element Lochreia commutatus (Branson & Mehl); REDEPOS. MERAMECIAN-EARLY CHESTERIAN CONO.: 4 Pa elements Gnathodus texanus Roundy; 1 unassigned M elements, 24 indet. bar, blade, and platform fragments	3			85ASI26-29
	85ASI18	68 32.3'	153 28.5'	Conodont	Pennsylvanian (no older than earliest Morrowan; (no older than the base of the Pennsylvanian)	A	11mi N of the main mtn. front and near the Okpikruak River	from highest exposed Lisburne Group (appears to be within upper 10m(?))	39	REDEPOS. AND (OR) INDIG. MORROWAN-EARLY ATOKAN CONO.: 27 Pa elements Declinognathodus noduliferous japonicus (Igo & Koike); 8 Pa elements Declinognathodus noduliferus (Ellison & Graves); REDEPOS. CONO. OF CHESTERIAN AGE: 7 Pa elements Gnathodus bilineatus bilineatus (Roundy); Kladognathus sp. indet., 4 Pa, 2 Pb, 1 M & 1 Sc elements Lochreia commutatus (Branson & Mehl); UNASSIGNED ELEMENTS: 5 Pb (3 morphotypes) & 3 M (2 morphotypes), 86 indet. bar, blade, and platform fragments	1-1.5			
	85AMu2-11	68 22.0'	154 12.0'	Conodont	Late Mississippian (Early Chesterian)	A	East Akmalik Ck.	from 9.5m below top of the Lisburne Group 8m above top of phosphatic zone	39	1 Pa element Cavusgnathus sp. indet.; 8 Pa elements Gnathodus bilineatus bilineatus (Roundy); 18 Pa elements Gnathodus texanus Roundy; Kladognathus sp. indet. (all elements are frags.), 1 Sa, 1 Sb & 7 Sc elements; 53 Pa elements Lochreia commutatus (Branson & Mehl); UNASSIGNED ELEMENTS: 1 Pb, 1 Sa & 12 M (3 morphotypes); 36 indet. bar, blade, and platform fragments	2.5			
	85AMu2-10	68 22.0'	154 12.0'	Conodont	Late Mississippian (Chesterian)	A	East Akmalik Ck.	from 6m below top of the Lisburne Group	39	107 Pa elements Gnathodus bilineatus bilineatus (Roundy); 4 Pa elements Gnathodus girtyi girtyi Hass; 39 Pa elements Gnathodus girtyi simplex Dunn; Idioprioniodus sp. indet., 2 Pa, 1 Pb, 2 Sa, 2 M, 3 Sb & 1 Sc elements (all frags.); 20 Pa elements Lochreia commutatus (Branson & Mehl); UNASSIGNED ELEMENTS: 14 Pb (3 morphotypes), 13 M (2 morphotypes), 4 Sb (2 morphotypes) & 1 Sc; >120 indet. bar, blade, and platform frags.; phosphatized ostracode, bryozoan, and echino. debris	2.5			85AMu2-11
	85AMu2-9	68 22.0'	154 12.0'	Conodont	Pennsylvanian (no older than Late Morrowan)	A	East Akmalik Ck.	from 0.5m below top of the Lisburne Group	39	REDEPOS. AND (OR) INDIG. LATE MORROWAN-WOLFCAMPAN CONO.: 36 Pa elements Idiognathodus sp. indet. (all strongly abraded); REDEPOS. AND (OR) INDIG. MORROWAN-EARLY ATOKAN CONO.: 9 Pa elements Declinognathodus	2.5			85AMu2-11

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										noduliferus noduliferus; REDEPOS. AND (OR) INDIG. MORROWAN CONO.: 4 Pa elements Idio- gnathoides sinuatus Harris & Hollingsworth; RE- DEPOS. CHESTERIAN CONO.: 13 Pa elements Gnathodus bilineatus bilineatus (Roundy); 7 Pa ele- ments Gnathodus girtyi simplex Dunn; 1 unassigned M element; 51 indet. bar, blade, and platform fragments; common ichthyoliths			
	84AMu2	68 22.0'	154 15.0'	Conodont	Late Mississippian (Late Meramecian)	A	Akmalik Ck.	~6m below top of the Lisburne Group	39	28 Pa elements of Bispathodus stabilis (Branson & Mehl); 11 incomplete Pa elements of Cavusgnathus aff. C. unicornis Youngquist & Miller; Hindeodus scitulus (Hinde), 2 Pa, 2 Pb & 1 Sc elements; Klado- gnathus sp. indet. (all S elements are frags.), 11 M, 6 Sa, 3 Sb & 20 Sc elements; UNASSIGNED ELE- MENTS: 1 Pb(?) & 1 M(?); 57 indet. bar, blade, and platform fragments	2.5		
										1 posterior fragment of a Pa element of Polygnathus cf. P. communis (Branson & Mehl).			
	83AMu40	68 20.2'	154 38.4'	Conodont	middle late Late Devonian (Famennian) to Early Missi- ssippian (Osagean); since it is Liburne, no younger than Osagean.	A	upper Kurupa River	crinoidal limestone from base of Lisburne Group	45				
	83Mu73-4	68 23.9'	154 20.65'	Conodont	Silurian to Permian	A	northeast of Kikiktat Mtn.	chert and dolomite from Mississippian Lisburne Grp.	45	2 indet. bar fragments, 2 ichthyoliths	3	110-150	
	84AMu7	68 22.4'	154 19.2'	Conodont, Radiolarians	Silurian to Permian, sub- mitted as Mississippian(?)	A,B	Akmalik Ck.	gray to black, locally light greenish-gray, banded chert that weathers orange	47	no identifiable rads; 2 indet. bar fragments of Sil- urian-Permian morphotype	2 or 3	>=100	
	84AMu16	68 34.6'	154 06.8'	Conodont, Radiolarians	Mississippian to Permian	A,B	Itkilikruich Ridges	black to dark gray chert	47	late Paleozoic radiolarians; 19 indet. bar, blade and platform fragments of Mississippian through Permian morphotypes	2	60-110	
	Lisburne test well, 16,302-09'	68 29.1'	155 41.6'	Conodont	Upper Devonian to Mississippian	A	Lisburne test well		48		3.5		
LATE DEVONIAN TO EARLY MISSISSIPPIAN ROCKS, KAYAK FORMATION													
	83Mu40-3	68 19.96'	154 37.8'	Conodont	Silurian to Permian	A	upper Kurupa River	dark gray, partly crinoidal, shaley to phyllitic lime- stone in the Kayak Shale	45	19 indet. bar and blade fragments of post-Ordovician morphotype; fragments are extremely broken by hydraulic activity	3.5	150-180	
	83Mu70-2	68 22.5'	154 38.1'	Conodont	middle Early Mississippian (Late Kinderhookian)	A	northeast of Kurupa Lake	dolomite from Kayak Fmn.	45	3 Pa elements of Siphonodella isosticha (Cooper) transitional to S. obsoleta (Hass), 1 indet. fragment	3	110-150	
MISSISSIPPIAN TO DEVONIAN ROCKS,													
	Lisburne Test Well	68 29.1'	155 41.6'	Conodont	Mississippian to Late Devonian	A	16,300ft. MD	Lisburne Group. limest.	1		3.5	150-200	Endicott Mtns.
	83AMu40	68 20.2'	154 38.4'	Conodont	late Late Devonian to Early Mississippian	A	Upper Kurupa R.	Lisburne Group. limest., base of unit	1		3	110-150	Endicott Mtns.
	75ATr52	68 19.6'	155 41.8'	Brachiopod	indeterminant	E	E. side of Upper Otuk Ck. near chert ribs	probably Kayak, within 10m of contact w/ Lisb.	7	fragments of spiriferoid brachiopods, possibly Unspirifer			?Endicott Mtns.
	83AMu39-1	68 17.2'	154 37.1'	Brachiopod, Echinoderm, Pelecypod, Fish Frags.	<=Early Mississippian	E	Upper Kurupa River	silty mudstone, Devonian Hunt Fork Shale or Mississippian Kayak? near shore, intertidal	29	indet. echinodermal debris, molds/casts of indet. small pelecypods and rhynchonelloid brachiopods, phosphatic fish fragments			
	83AKa-7-2	68 25.9'	154 23.1'	Brachiopods, Pelecypods Echinoderm,	possibly either Early Mississippian or Late Devonian	E	W. of Imnaitchiak Ck.	lithic arenite	29	indet. echinoderm debris, rhomboporoid bryo- zoans, rhynchonelloid and orthotetid brachio- pods, plant debris and pelecypods, indet.			

