

**Normin/Boise Cascade**

International Falls

Seattle Slew

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Company Normin Mining Co.

70-24-1 FILE #1

ITEM
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LEGEND**SURVEY**

Footage Bearing Inclination

200' 45°

301' 44°

Property INTL. FALLS - SEATTLE SLEWHole No. 33-8Location NE 1/4 SW 1/4, SEC. 1 - 70N-24WBearing at Collar Grid N, 336° AzmKOOCHICHING CO. - HOMER BROWN LEASEInclination at Collar -45°Coord. - Collar N 17+50 SE 40+00 WLength 502'Elev. - Collar 1160'Core Size NGDate started 6-27-89Completed 6-29-89Logged by D. Baxter

LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC LOG	MINERALIZATION	RECOVERY				ANALYTICAL					BOX
				Run	Run length	Core	%	Sample	Interval	Au			
GLACIAL TILL	31			31									
QTZ-ACT-CHLT BANDED Med-dark green rock w/remblized qtz blebs typically at an angle to core Occasional 1-2cm zones of qtz-ep alta QTZ-CHLT VEIN	31-43		Tr-1% slf2	32.8	1.8			20922	31-32.8	66			
	40		Tr-1% slf2	34	1.2			20933	32.8-34	15			
					9			20934	34-43	43			
				43									
QTZ-ACT-CHLT-GRNT BANDED as above w/1/2-1 1/2 cm grnt pblasts	50		Tr-1% slf2		6.8			20935	43-49.8	<5			
				49.8									
QTZ-ACT-CHLT BANDED -as @ 31-43'	55		Tr-1% slf2		8.2			20936	49.8-58	16			

LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC LOG	MINERALIZATION	RECOVERY				ANALYTICAL						BOX
				Run	Run length	Core	%	Sample	Interval	Av				
as above				58										
QTZ-ACT-CHLT-BIO BANDED -as @ 31-43 with zones richer in bio vs. chlt. Bio may be gywk layers in sed. pkg. ragged cc stringers .2' Qtz m @ 68.8' →	65		1-2% py		10			20937	58-68	7				
.8' Bio-zone @ 74.1' →	75				10			20938	68-78	<5				
QTZ-CHLT-ACT BANDED - as @ 31-43' - ragged cc .2' Fe Fm @ 79.8'	85		1-2% py		10			20939	78-88	<5				
.2' Fe Fm @ 94.9' .1' Fe Fm @ 95.5'	95				8			20940	88-96	<5				
max Qtz-act-chlt 102-103.7, may be mafic tuff.	105				10			20941	96-106	<5				
QTZ-CHLT-ACT MASSIVE Rare gte blebs, ragged cc, may be mafic tuff .5' Fe Fm @ 111' .2' Fe Fm @ 113'	115		1-2% py		10			20942	106-116	<5				
QTZ-CHLT-ACT MASSIVE-as above More subhedral act x-tals, a few gte blebs .3' Fe Fm @ 121' + 123'	125		1-3% py 3-5% py-po @ 123'		7			20943	116-123	10				

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LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC LOG	MINERALIZATION	RECOVERY				ANALYTICAL						BOX	
				Run	Run length	Core	%	Sample	Interval	AJ					
as above Rare 1/2-1 cm Fe Fm ragged cc stringers	125		1-2% PY		9.2			20944	123-132.2	<10					
	135				8.8			20945	132.2-141	45					
5' Remob gtz vn @ 138'	145				10			20946	141-151	8					
Few bio-rich zones @ 150-52'	155				8.5			20947	151-159.5	<5					
QTZ-ACT-CHLT-BIO BANDED MAFIC TUFF? as @ 58-78' ragged cc stringers	165		TS-1% PY		9	50%		20948	159.5-168.5	<5					
QTZ-CHLT-ACT MASSIVE -as @ 116-123 Rare gtz blebs, ragged cc stringers Rare 1-3' banded bio zones	175		TS-1% PY		8			20949	168.5-177.5	<10					
	185				9			20950	177.5-186.5	6					
abnt ragged cc stringers	195		1-2% PY		9.5			20951	186.5-196	<5					

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LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC LOG	MINERALIZATION	RECOVERY				ANALYTICAL							BOX
				Run	Run length	Core	%	Sample	Interval						
Q-C-A MSV as above, few gtz blebs	260		Ts = 1% py	263	5			20964	258- 263	6					
Q-A-C BNDD w/ abnt. ragged cc stringers not at blotchy texture			2-6% py, po, ap	265.5	2.5			20965	263- 265.5	8					
			1-3% py, po	269	3.5	50		20966	265.5- 269	7B					
QTZ=CHLT=ACT MASSIVE - as @ 116-123	270		Ts = 1% py	273.7	4.7			20967	269- 273.7	39					
			2-5% py-po in stringers and diss. zones	283	9.3			20968	273.7- 283	7					
Bio content increasing →			1-2% py-po	289	6	59 60		20969	283- 289	<5					
QTZ=ACT=CHLT=BIO MSV to BNDD as @ 58-78	290		Ts = 1% py	295.5	6.6	52		20970	289- 295.5	<5					
FE FM = Finely lam. chert & FeFm with Q-C-A interbeds			1-4% po-py	298	2.5	46 44		20971	295.5- 298	<5					
QTZ=ACT=CHLT MASSIVE - as @ 116-123 abnt ragged cc stringers	300		2-4% py-po Sulfide stringers @ 301'	303	5			20972	298- 303	13					
QTZ=ACT=CHLT=GRNT BANDED as @ 43-49.8 abnt ragged cc stringers Rare crude Fe Fm layers	310		2-4% py-po po interstitial in grnt crystals	312.7	9.7			20973	303- 312.7	<5					
Q-A-C-Q BNDD - as above with more Fe Fm and rare grnt beyond 314'			2-4% py-po	317.4	4.7			20974	312.7- 317.4	<5					
SILICEOUS CLASTICS - Fig. gtz bio- chlt rocks w/ good banding and rare brittle fractures	320		1-5% py-po in stringers and dissemination	324.5	7.1			20975	317.4- 324.5	<5					
	330				6.5			20976	324.5- 331	<5					

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LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC LOG	MINERALIZATION	RECOVERY				ANALYTICAL						BOX
				Run	Run length	Core	%	Sample	Interval	AN				
QTZ-ACT-CHLT-BIO MASSIVE Rare grnt-rich zones and gtz blebs • 5' grnt zone @ 333'	330		1-5% py-po in clots and dissem. Tr cp		10	61		20977	331- 341	<5				
2' grnt zone from 344-46 • 3' Fe fm @ 345.7'	340				7.5	46 58		20978	341- 348.5	24				
FE FM - as @ 295.5-298	350		2-5% po-py, Tr cp in layers parallel bedding	353	4.5	46 50 53 63		20979	348.5- 353	66				
QTZ-CHLT-ACT MSV - Mal'ct-H? F to m.g., ragged cc			Tr-12 po-py	357	4			20980	353- 357	13				
FE FM - as @ 295.5-298	360		as @ 348.5-353	360.5	3.5			20981	357- 360.5	76				
QTZ-ACT-CHLT-BIO MASSIVE as @ 331-341	370		1-5% po-py, Tr cp mainly as stringers + elongate dissem.	370	9.5			20982	360.5- 370	<5				
	380			381	11			20983	370- 381	<5				
Q-A-C-B MSV - as above with several brittle fractures with gtz-cc vns and weak gtz-ep alt'n.			2-3% po-py as diss stringers	385.5	4.5			20984	381- 385.5	<5				
Q-A-C-B MSV as @ 381-385.5 with stronger gtz-ep-cc alt'n from 384-391	390		as @ 381-385.5'	394	8.5			20985	385.5- 394	<5				
QTZ-ACT-CHLT-BIO MSV - as @ 331-341 w/ less biotite	400		as @ 391-385.5'		9.5			20986	394- 403.5	<5				

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LITHOLOGY, ALTERATION, MISC.	FT. 400	GRAPHIC LOG	MINERALIZATION	RECOVERY	ANALYTICAL	BOX
				Run Run length Core %	Sample Interval Au	
			as above	403.5	above as above	
moderate Qtz-ep altn and bra from 406.58-409.7	410			7	20987 403.5 - 410.5	7
Qtz-ACT-ChLT MSV & BNDD about ragged cc stringers, moderately fractured and Qtz-ep-cc altered.	420		2-5% po-py diss + stringers	7.5	20988 410.5 - 418	8
	430			10	20989 418 - 428	<5
	440			10.5	20990 428 - 438.5	6
ALTERED QTZ-ACT-ChLT MSV to BNDD as @ 331-341 with abnt fracturing and moderate to strong Qtz-ep-cc altn.	450		2-8% po-py as clots stringers and dissem Tr sp. Sulfides may or may not be genetically related to altn	10.5	20991 438.5 - 449	11
	460			7	20992 449 - 456	36
several Qtz pods 461-462	470			10	20993 456 - 466	60

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