"F"

NORANDA EXPLORATION COMPANY, LIMITED

Collared May 11/75	Completed May 13/75	Core Size BQ	Property Quartz Lake, Yukon	Project No 912	NTS No. 95D/12

FIELD COORDINATES			SURVEYED COORDINATES			Sheet 1 of 5
Lat. 6+20N	Elev.	Dip -90°	Lat. 100,497	Elev. 508.9	Dip -90	Hole No.
Dep. 0+08E	Depth	Bearing	Dep. 99,965	Depth 380	Bearing	94 94

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.				
0-55			Overburden								
55-56.5	95+		<u>Qtzte</u>. Grey-green, massive, calcareous, porous								
56.5-60.3	"		Grey thin beddin limy <u>argillite</u>, well fractured, calc. stringers, occas. py in stringers								
60.3-62.5	"		<u>Argillite</u>, grey to creamy grading to qtzte. vuggy pts. sl. altd. & fract. well min. gal., py, sphal. replacing to well min. py. few narrow gouge zones	10+							
62.5-66.8	"		<u>Argillite</u>. Grey to creamy to qtzte. vuggy pts. st. altd. & fractr. more sil. & vuggy. sparse scatt. py-fract. with siderite(?) or sphal(?)-gal. @ 70°. py increase 66.8	5+							
66.8-67.4	"		solid sulfide pyrite								
67.4-69.4	"		<u>Argillite & quartzite</u>. Grey, fract. scatt. py massive 2" stringers. sphal. gal @ 50° @ 68.5'. 2" py @ 69.1'								
69.4-74.2	98+		<u>Argillite & quartzite</u>. Grey, fract. many angles. Sev. limy fract. with (siderite?) sphal @ 60°	1+							
74.2-78.2	98		<u>Argillite & quartzite</u>. Grey, fract. Many angles. Occ. fract. w. py shal. @ 45°-60° bedding @ 50° py fract. fill @ 78.2								
78.2-95	"		Grey <u>quartzite</u> some green <u>argillite</u>. Creamy arg. @ 95. Minor py. occ. fract. with sphal(sid?) minor py. slight galena, few small scale faults.								

DATE .... LOGGED BY D.E.P./G.L.

"F"

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property Quartz Lake, Yukon	Project No	NTS No.
FIELD COORDINATES			SURVEYED COORDINATES		Sheet 2 of 5
Lat.	Elev.	Dip	Lat.	Elev.	Dip
Dep.	Depth	Bearing	Dep.	Depth	Bearing

Hole No. 94 94

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.
95-100	98		Dr.grey argillaceous limestone to f.g. limestone 97-99				
100-138	"		Repl.(arg.qtzte)limestone. well min. to solid sulfide py.sphal.gal.bedding 55° C/A	60-100			
120-138	"		Mainly solid sulfides as alternating zones of py,gal,sphal. to mixed. to 138'	"			
135-143	"		(138) mainly pale green sheared argillite. Occ. zone py.sphal.gal. shearing @ 45°	"			
143-147	"		Mainly pale green sheared argillite. Occ. zone py. sphal. gal. shearing @ 45°	2+			
147-150	"		Argillite grey-green quartzite bands.Many chl. slips or narrow zones. Rare py. spec. parts mod.				
			fract. core angle 60-65°. parts blocky broken	<1-			
150-160	"		Argillite grey-green quartzite bands.Many chl. slips or narrow zones. Rare py. spec. parts mod.				
			fract. core angle 60-65°	<1-			
160-170	"		Argillite interband green to dark grey starting at 164'	<1-			
170-180	98+		Interbanded green and dark grey Argillite rare pyrite mod.fract. core angle 60-65°	<1-			
180-190	"		Argillite. Pale green starting at 184'.Rare py. mod. fract. core angle 60-65°	<1-			
190-200	"		Pale green argillite with bands of grey quartzite and qtz incl. well fract. parts. c/a 60-70°compact	<1-			
200-210	"		Pale green argillite with bands of grey quartzite and qtzte inclusions.	<1-			
210-220	98+		To Arg. dk grey, lt grey & quartzite.Inc. in py. @ 216.5 fair bands & irr. zones. sm incl.qtz	2+			

DATE LOGGED BY

"F"

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property Quartz Lake, Yukon	Project No 912	NTS No.
FIELD COORDINATES			SURVEYED COORDINATES		Sheet 3 of 5
Lat.	Elev.	Dip	Lat.	Elev.	Dip	Hole No.
Dep.	Depth	Bearing	Dep.	Depth	Bearing	94 94

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.			
220-230	98+		To Arg.dk grey, lt grey & quartzite. Inc. in py @ 216.5 fair bands & irregular zones							
230-240	"		To Arg.dk grey, lt grey & quartzite. Fair bands & irregular zones							
240-250	"		Argillite grey & dk grey to black. Incl. of Qtzte tives mottled appearance. fine scatt. py. bands and irregular blobs. bedding poor or missing	3+						
250-260	98		Quartzite:(258) grey parts impure 258-252. 3" band very fine-gr. "sooty" pyrite @ 253	2+						
260-270	"		Argillite:Mottled black to dk with parts white qtzite. graphitic partings. poor py. core angle 60-70^{o} "quartz graphite"							
270-280	"		as above. better quality argillite							
280-290	"		Argillite: "mottled" black to dk with parts white qtzte. graphitic partings. very graph.parts							
290-300	"		as above. very graph. parts. friable br. parts							
300-310	100		as above. few bands py to ½" - deformed sheared parts 60-70^{o}							
310-320	95		as above							
320-330	"									
330-340	95+		as above							
340-350	95+		Argillite:"mottled" black to dk with parts white qtzte.graph. partings.few bands py to ½". deformed sheared parts 60-70^{o}.more graphitic							

DATE LOGGED BY

NORANDA EXPLORATION COMPANY, LIMITED

"F"

Collared	Completed	Core Size	Property Quartz Lake, Yukon	Project No 912	NTS No.
FIELD COORDINATES			SURVEYED COORDINATES		Sheet 4 of 5
Lat.	Elev.	Dip	Lat. / Elev.	Dip	Hole No. 94 99
Dep.	Depth	Bearing	Dep. / Depth	Bearing	

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	% Pb	% Zn	oz/T Ag	% oz/T
350-360	95+		as above. Increase quartzite								
360-370	70		as above. very broken crumbly								
370-380,	"		as above								
			END OF HOLE (CASING PULLED)								
			Assay Sections								
60.5-64.0						P4176	3.7	3.12	5.40	1.29	.01 N.
64.0-66.8						P4177	2.8	0.88	0.94	0.32	0.0 0.0
66.8-67.4						P4178	0.6	0.08	0.04	0.29	0.0 N.
67.4-69.2						P4179	3.8	1.28	5.80	.88	0 0
69.2-74.2						P4180	5.	0.32	1.26	.18	0.0
74.2-78.2						P4181	4.	0.16	0.96	.14	0.0
86-91						P4182	5.	0.38	0.77	.17	0,0
100-105						P4183	5.	4.96	8.04	2.10	0.0 0.0
105-110						P4184	5.	2.24	9.60	1.08	0.0 0.0
110-115						P4185	5.	8.00	23.20	3.89	0.0 0.0

DATE ______________________ LOGGED BY ______________________

"F"

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property Quartz Lake, Yukon	Project No 912	NTS No.
FIELD COORDINATES			SURVEYED COORDINATES		Sheet 5 of 5
Lat.	Elev.	Dip	Lat.	Elev.	Dip	Hole No. 94
Dep.	Depth	Bearing	Dep.	Depth	Bearing	94

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	% Pb	% Zn	oz/T Ag	% oz T
115-120				120		P4186	5	18.40	17.60	8.52	0.0 / 0.0
120-125				[illegible]		P4187	5	11.20	20.40	5.94	0.0 / 0.0
125-130				[illegible]		P4188	5	5.64	19.20	3.33	0.0
130-135				110 40		P4189	5	5.28	16.80	2.51	0.0 / 0.0
135-140				71 20		P4190	5	2.64	11.60	1.39	0.0 / 0.0
140-145						P4191	5	1.84	5.50	.93	0.0

DATE ______________ LOGGED BY ______________

"I"

NORANDA EXPLORATION COMPANY, LIMITED

Collared May 14/75	Completed May 15 75	Core Size BQ	Property Quartz Lake, Yukon	Project No 912	NTS No. 95D/12

7+63N? FIELD COORDINATES			SURVEYED COORDINATES			Sheet 1 of
Lat. 9+52N	Elev.	Dip	Lat. 100,686	Elev. 507.3	Dip -90°	Hole No. 95
Dep. 0+00E	Depth	Bearing	Dep. 99,997	Depth 177	Bearing	95

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.
0-61			Casing				
61-70	85		Argillite: interbedded grey grene. few narrow sil. beds. some zones quartzite. vis.specs py. core angle 50°				
70-80	85		Quartzite grey fract. 73-82. Core angle 80°				
80-90	85		Argillite grey green silic. zones few chl. slips. core angle 80°				
90-100	90		Quartzite, mainly with soft crumbly Arg. partings. 80° to core. very blocky parts.				
100-110	90		(105) quartzite, mainly with soft crumbly Arg. partings. solid sulfide. sphalerite, pyrite, gal.	60-90			
110-120	90		solid sulfide. sphalerite, pyrite, galena. 125-2" sphal. py. 126-3" bands sphal.				
120-130			Argillite interbanded grey & green. minor qte. Minor bands and fractured fills of (py) sphal., galena. core angle 60°. minor gal. 121-½" band sphal.	5-10			
130-140	98		Argillite interbands grey green - minor bands Qte. minor py bands bedding angle 75°-80°, core angle 10°-15°				
140-150	98		Argillite interbands grey green - minor bands Qte, core angle 30°-40°, crumbly 143				
150-160	98		Argillite. interbands grey, black, green, minor qte. bands. bedding 60°				
160-170	95		as above core angle 45°				

DATE ______________ LOGGED BY D.E.P./G.L.

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property Quartz Lake, Yukon	Project No 912	NTS No.
FIELD COORDINATES			**SURVEYED COORDINATES**		Sheet 2 of 2
Lat.	Elev.	Dip	Lat. / Elev.	Dip	Hole No.
Dep.	Depth	Bearing	Dep. / Depth	Bearing	95 95

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	% Pb	% Zn	oz/T Ag	% / oz/
170-177	98		Argillite. interbands grey, black, green, minor Qte bands. crumbly green argillite								
			<u>END OF HOLE</u> (CASING PULLED)								
			<u>Assays</u>								
104-110						P4192	6	4.96	24.00	1.93	0. / 0.
110-115						P4193	5	6.08	22.00	2.34	0. / 0.
115-118						P4194	3	7.52	19.60	3.10	0. / 0.
118-120						P4195	6	1.88	4.30	.87	0.
124-127						P4196	3	4.16	5.20	1.49	0.

DATE ____________ LOGGED BY ____________

"K"

NORANDA EXPLORATION COMPANY, LIMITED

Collared 14 May/75	Completed 15 May/75	Core Size BQ	Property Quartz Lake, Yukon	Project No 912	NTS No. 95D/1
FIELD COORDINATES			**SURVEYED COORDINATES**		Sheet 1 of
Lat. 9+52N	Elev.	Dip -90^0	Lat. 100,837	Elev. 517	Dip -90^0	Hole No.
Dep. 0+00E	Depth	Bearing	Dep. 99,997	Depth 178	Bearing	96 96

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.			
0-64			Overburden. Bedrock at 64. Casing reamed to 84							
64-80	30-40		Quartzite, grey, some pink. minor argillite. py. stringers at 73-75							
80-90	80-90		Argillite - interbands grey, pink grey, core angle 60^0, minor qte. bands - core angle 50^0							
			many deformed bands - core angle 70^0							
90-100	90		Argillite - interbands pink green buff bands, core angle 75^0-80^0. hard silic. material or grey							
			qte. core angle 65^0							
100-110	95		Interbands green Arg. and grey Qte. minor strgrs. sphal. galena (1mm) @ 105 ½" massive sulf.							
			(sph.qzl.py)							
110-120	80-85		Interbands green argillite and grey qte. minor py. specs. core angle 75^0-90^0, 75^0-85^0 , very							
			crumbly qtze pebbles in soft aug. & qte.							
120-130	30-50		Argillite and Quartzite bands @ 80^0-90^0. Crumbly broken							
130-140	30-40		Argillite, grey, some qte. 136.5 few rounded pebbles. solid sulfide sphal. galena py.							
140-150	95		Arg.bands - mostly green - some qte. few py. specs. core angle 60^0-70^0. broken qte. pebbles,mature							
			milky buff qte.							
150-160	85-90		Arg. interbds. green & grey and qte. - parts crumbly bands 70^0-90^0. core angle 70^0							

DATE ______________ LOGGED BY D.E.P./G.L.

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property Quartz Lake, Yukon	Project No 912	NTS No.
FIELD COORDINATES			SURVEYED COORDINATES		Sheet of
Lat.	Elev.	Dip	Lat.	Elev.	Dip
Dep.	Depth	Bearing	Dep.	Depth	Bearing

Hole No. 96

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	% Pb	% Zn	oz T/ Ag	% oz.
160-170	90		Bands green grey-black Arg. & Qte.(grey) Core angle 60°-80°								
170-178	95		Arg.green black bands - crumbly with qte.pebbles - some qte bands. core angle 60°-70 °								
			END OF HOLE (CASING PULLED)								
			Assays								
125-130						P4197	5	.04	.06	.06	0.
130-135						P4198	5	.04	.06	.04	0.
135-140						P4199	5	.74	2.30	.29	0.

DATE ______________ LOGGED BY D.E.P./G.L.

"M"

NORANDA EXPLORATION COMPANY, LIMITED

Collared 16 May/75	Completed 17 May/75	Core Size BQ	Property Quartz Lake, Yukon		Project No 912	NTS No. 95D/12
FIELD COORDINATES			SURVEYED COORDINATES			Sheet 1 of
Lat.	Elev.	Dip	Lat. 100,964	Elev. 518.6	Dip -90°	Hole No.
Dep.	Depth	Bearing	Dep. 100,115	Depth 194	Bearing	97 97

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.				
0-92			Overburden. Casing 92'								
92-100	30-40		Core badly broken rounded and angular pebbles and broken chunks. Mostly grey & pink qtzite,								
100-110	20		some argillite as above								
110-113	20-25		Qtzite pebbles, very powdery, crumbly								
113-120	90-95		Mineralized zone sphal., galena, py. 115.5 to 116.0 massive pyrite								
120-126.5	97		Mineralized zone sphal., galena, py. 124.0 to 124.4 massive pyrite								
126.5-130	95		Arg.(green,grey)+ qtzite bands								
130-140	98		Arg.(green,grey) + qtzite bands, bands at 40° Core angle 25°								
140-150	97		Interbands green Arg. and qtzite nodules and lenses of qtzite in Arg. - parts crumbly & soft. core angle 35-40°								
150-160	99		Arg.-green plus bands lenses, nodules of qtzite (grey) part of core soft & crumbly.core angle 15-25°								
160-170	95-98		Interbands green & grey Arg. and grey qtzite. Lenses & nodules of qtzite in Arg. core banding 40°-60°								
170-180	95		Interbands green & grey Arg. some bands, lenses and nodules (qtzite-grey) core banding 40°-60°								

DATE ______________ LOGGED BY D.E.P./G.L.

"M"

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property Quartz Lake, Yukon	Project No 112	NTS No.
FIELD COORDINATES			SURVEYED COORDINATES		Sheet 2 of 2
Lat.	Elev.	Dip	Lat.	Elev.	Dip
Dep.	Depth	Bearing	Dep.	Depth	Bearing

Hole No. 97

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	% Pb	% Zn	oz/T Ag	% Cu / oz/T Au
180-190	85		Core angle banding 40-70° same as 170-180								
190-194	70-80		Soft, crumbly, light grey Arg. some qtzite inclusions. core angle 70°-80°								
			END OF HOLE (CASING PULLED)								
			Assays								
113-118						P4200	5	5.94	9.40	2.34	0.0 / 0.0
118-123						P5851	5	1.76	7.60	0.82	0.0 / 0.0
123-128						P5852	5	4.96	16.60	2.19	0.0 / 0.0

DATE ______________ LOGGED BY ______________

"O"

NORANDA EXPLORATION COMPANY, LIMITED

Collared 17 May/75	Completed 18 May/75	Core Size BQ	Property Quartz Lake, Yukon	Project No 912	NTS No: 95 D/12
FIELD COORDINATES			SURVEYED COORDINATES		Sheet 1 of
Lat. 13+00N	Elev. 537.5	Dip -90°	Lat. 101,161	Elev. 537.5	Dip -90°
Dep. 1+20E	Depth 268	Bearing	Dep. 100,156	Depth 268'	Bearing

Hole No. 98 98

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.
0-117			Overburden Casing to 117				
117-125	40-50		Interbands pink Arg. and grey qtzite. core broken Also many semi-rounded pebbles. core angle 20-30°				
			Core angle 25-35°				
125-130	80		Interbands Arg. (grey,pink) and grey qtzite core angle 60°. parts crumbly & badly broken.				
130-140	70		Arg. (pink,grey) minor bands grey qtzite core angle 70-80°, parts crumbly & badly broken, core angle 60°				
140-150	97		Interbands (grey,pink,green) Arg. Minor grey qtzite bands. 141-143 crumbly, broken. Core angle 50-60°				
			Core angle 35-45°				
150-160	99		Interbands grey & green Arg. core angle 30-40° very minor grey qtzite core angle 30-40°				
160-170	80		Arg. interbands grey & green - minor stringers of pyr @ 162.5 core angle 35°. specks of py, rare qtzite				
			core angle 25-30°				
170-180	70		Interbands Arg., grey & green. core angle 40-50° Minor qtzite bands 176.5-177.5-grey qtzite (some dark) with fine green Arg. stringers core angle 50-60°				
180-190	60-70		Interbands grey qtzite and green & grey Arg. core angle 60-70°. minor bands of clear qtzite. core angle 60-70°				

DATE ____________ LOGGED BY D.E.P./G.L.

"O"

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property Quartz Lake, Yukon	Project No 912	NTS No.
FIELD COORDINATES			SURVEYED COORDINATES		Sheet 2 of 3
Lat.	Elev.	Dip	Lat.	Elev.	Dip	Hole No. 98
Dep.	Depth	Bearing	Dep.	Depth	Bearing	

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.				
190-200	70%		Interbands Arg.(grey,green)and minor grey qtzite core angle 45°.198-200 dark grey,black,crumbly Arg. core angle 60°								
200-205	70		Green & grey Arg.-some qtzite.some carbonates CO_3 in mineralized zones. 202.0-205.0 massive sulph.(py,sph.,gal)in narrow bands,lenses,core badly broken,pebbles(poss.cave)etc.204-205-crumbly,semi rounded pebbles.								
205-217.5	95		Mineralization-Mass.sph.py,gal.,solid & bands or lenses.206-208 - high py.								
217.5-230	95		Arg.interbands,grey,green,black,some grey qtzite lenses,nodules,bands 217.5-220-core crumbly,qtzite inclusions. core angle 50-60°								
230-240			230-235-Arg.green&grey,with minor qtzite(grey) lenses, bands, nodules.235-240-qtzite bands, core angle 50-60°,lenses,nodules and sooty py. core angle 40-60°,in soft graphitic material, py, fine-gr. sooty C/A 50°								
240-250	90		Black graphitic qtzite and py. lenses, py fine gr.sooty bands, etc. graphitic lenses & partings mottled appearance. Core angle 40°								
250-268	95-97		Black graphitic qtzite and py lenses (fine gr., sooty) Mottled appearance,graphitic partins. Core angle 40-60°								
			END OF HOLE (CASING PULLED)								

DATE ________ LOGGED BY D.E.P./G.L.

"O"

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property	Project No	NTS No.
FIELD COORDINATES			SURVEYED COORDINATES		Sheet 3 of 3
Lat.	Elev.	Dip	Lat.	Elev.	Dip
Dep.	Depth	Bearing	Dep.	Depth	Bearing

Hole No. 98

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	% Pb	% Zn	oz/T Ag	% C / oz/T
			Assays								
198-202						P5853	4	0.34	0.34	0.12	0.0
202-207						P5854	5	4.96	11.60	1.98	0.0 / 0.0
207-212						P5855	5	1.92	4.60	0.70	0.0 / 0.0
212-230						P5856	5½	1.60	7.60	0.64	0.0 / 0.0

DATE ________ LOGGED BY ________

"N"

NORANDA EXPLORATION COMPANY, LIMITED

Collared 19 May/75	Completed 20 May/75	Core Size BQ	Property Quartz Lake, Yukon	Project No 912	NTS No. 95D/12

FIELD COORDINATES			SURVEYED COORDINATES			Sheet 1 of 1
Lat. 12+00N	Elev. 541.3	Dip -90°	Lat. 101,047	Elev. 541.3	Dip -90°	Hole No. 99
Dep. 2+15E	Depth 250'	Bearing	Dep. 100,238	Depth 250'	Bearing	

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.
0-110			Overburden Casing reamed to 120				
110-125	75		Argillite interbanded grey,pink and grey qte semi rounded qte pebbles.C/A 50-60°				
125-130	60		Quartzite interbanded grey with pink argillite. core angle 45°,core badly broken				
130-140	85-90		Interbanded grey green pink Arg.some grey Qte core angle 50-60°,30-40°,30-40°				
140-150	90-95		Interbanded green Arg. and grey Qte Core angle 45-50°-60°.				
150-160	95		Interbanded Green & grey Arg. Core angle 70°, core angle 20°				
160-170	60		Arg. green and grey very minor Qte bands				
170-180	95		core angle 45-50°				
180-190	95		Interbanded Arg (green,grey)C/A 50°,some black partings C/A 40°,minor grey Qte bands C/A 60°				
190-200	30		Interband Arg.(grey,green & grey Qte. badly broken pieces C/A 40-50°				
200-210	60		Grey Qte interbanded with some grey-green Arg C/A 60°, C/A 65°				
210-220	60-70		Grey & whitish Qte C/A 80° minor Arg. 50-60°				
220-230	85		Grey Qte minor Arg. (225-230) interb. lenses of grey Qte.Green crumbly Arg. C/A 70-80°				
230-240	75		230-236 green crumbly Arg., minor Qte, 236-242 interband.greengrey Arg. grey-whitish Qte,crumbly				
240-250	80-85		Quartz-Graphite with narrow shaly & graphitic zones. Narrow zones(few inches) fine-gr."sooty" pyrite - crumbly				

DATE ______________ LOGGED BY D.E.P./G.L.

"L"

NORANDA EXPLORATION COMPANY, LIMITED

Collared 20 May/75	Completed 21 May/75	Core Size BQ	Property Quartz Lake, Yukon		Project No 912	NTS No. 95D/
FIELD COORDINATES			SURVEYED COORDINATES			Sheet 1 of 1
Lat. 10+00N	Elev.	Dip	Lat. 100,854	Elev. 517.9	Dip -90°	Hole No.
Dep. 2+24E	Depth	Bearing	Dep. 100,224	Depth 175	Bearing	100 100

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	% Pb	% Zn	oz T/ Ag	% oz/T
0-98			Overburden Casing to 98 ft.								
98-110	95		Interbanded arg.(green,pink) and qtzite(grey & clearish grey), core angle $60^{\circ}70^{\circ}$,								
110-120	50-60		Interbanded Arg.(pink & green) and grey qtzite. core angle 50°-80°								
120-130	50		Interbanded pink,grey qtzite and green/pink arg. core badly broken & crumbly @ 123 & 125-130. Core angle 50°-60°								
130-143	10		(?) quartzite and argillite								
143-150.3	90		mineralization. massive sphal. py,galena								
150.3-160	60		pale green crumbly Arg. with some bands of grey quartzite								
160-175	20-30		pale green crumbly Argillite and grey quartzite badly broken								
			END OF HOLE (PULLED CASING)								
			Assay Sections								
126-138						P5859	3	0.18	0.28	0.01	
138-140						P5860	0.5	0.02	0.02	0.01	
140-141						P5861	0.4	0.04	0.08	0.03	

DATE ____________ LOGGED BY D.E.P./G.L.

NORANDA EXPLORATION COMPANY, LIMITED

"L"

Collared	Completed	Core Size	Property Quartz Lake, Yukon	Project No 912	NTS No.

FIELD COORDINATES			SURVEYED COORDINATES			Sheet of
Lat.	Elev.	Dip	Lat.	Elev.	Dip	Hole No. 10
Dep.	Depth	Bearing	Dep.	Depth	Bearing	

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	% Pb	% Zn	oz T/ Ag	% C oz/T
141-143						P5862	0.9	0.02	0.01	0.03	
143-148						P5863	5	3.12	5.00	1.08	
148-151						P5864	2.7	0.06	0.18	0.03	

DATE ______ LOGGED BY ______

"J"

NORANDA EXPLORATION COMPANY, LIMITED

Collared 21 May/75	Completed 22 May/75	Core Size BQ	Property Quartz Lake, Yukon	Project No 912	NTS No. 95D/12

FIELD COORDINATES			SURVEYED COORDINATES			Sheet 1 of 1
Lat. 8+05N	Elev. 508.6	Dip -90°	Lat. 100,659	Elev. 508.6	Dip -90°	Hole No.
Dep. 2+15E	Depth 150'	Bearing	Dep 100,194	Depth 150'	Bearing	101 101

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	% Pb	% Zn	oz T/ Ag	% C oz/T
- 3			Overburden Casing at 77 ft.								
3- 0	20		Semi rounded grey qtzite Pebbles and some green Arg.								
80- 90	85		Interbands grey & clearish grey qtzite with some green Arg. Core angle 80°, Core angle 60-70°								
90- 100	85- 90		Interbanded green Arg. and grey qtzite. Core angle 70-80°								
100- 105			Grey/clearish grey qtzite. partings of green Arg. 103-105 minor py zones. Core angle 70-80°								
105- 120.1			105-115 massive sulphides, sphal, gal, py. 115-116.5 barren CO_3, 116.5-120.1 sulphides, sphal. gal. and py.								
120.1- 130	95		Interbanded green Arg. and grey (clearish grey) qtzite. core broken and crumbly								
130- 150	90- 95		Interbanded Arg.(grey and green) and grey qtzte. parts crumbly core angle 40-60°								
			END OF HOLE (CASING PULLED)								
			Assay Sections								
105- 110						P5865	5	7.36	24.00	3.62	0.04 0.00
110- 112.5						P5866	2½	3.20	19.00	1.66	0.02 0.00
112.5- 116.5						P5867	4	0.12	0.44	0.11	
116.5- 120.5						P5868	4	4.60	12.40	2.10	

"H"

NORANDA EXPLORATION COMPANY, LIMITED

Collared 22/5/75	Completed 23/5/75	Core Size BQ	Property Quartz Lake, Yukon	Project No 912	NTS No. 95D/
FIELD COORDINATES			SURVEYED COORDINATES		Sheet 1 of
Lat. 6+96N	Elev. 508.7	Dip -90°	Lat	Elev. 508.7	Dip -90°
Dep. 1+10E	Depth 152'	Bearing	Dep	Depth 152'	Bearing

Hole No. 1

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.				
0-47			overburden ? casing reamed to 73								
47-60	15-20		Qtzite,grey Core broken, semi rounded pebbles								
60-70	30		Qtzite, grey minor arg. green Core broken, pebbles, cobbles								
70-80	60		Interbanded grey and clearish grey qtzite with some green Arg. core angle 80°								
80-90	98		Interbanded grey & clearish grey C/A 80° qtzite with green & grey Arg. 86-87 motley white qtzite C/A 50°								
90-100	96		Grey & clearish grey qtzite with interbands of green Arg. C/A 70°								
110-113	75		Grey qtzite with interbands of Green Arg. some grey C/A 70°								
113-120	40		Mineralization, py,sph,gal.								
120-130	20		120-121 -stringers & lenses of sulph,py,sphl., gal. Broken core, semi rounded pebbles, mostly grey qtzite, core angle 60-75°								
130-140	80		Interbands of grey & dark grey qtzite with green Arg. Core angle 30-40°.135-140 green, crumbly Arg. with qtz lenses, bands C/A 80°								
140-150	70-80		Green & grey Arg. with some grey qtzite bands Core broken and crumbly								
150-152	50-60		Interbands of grey & dark grey Arg. and some grey qtzite bands (partly graphitic?)								

DATE ________ LOGGED BY D.E.P./G.L.

"H"

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property Quartz Lake, Yukon	Project No 912	NTS No. 95D/12
FIELD COORDINATES			SURVEYED COORDINATES		Sheet 2 of 2
Lat.	Elev.	Dip	Lat.	Elev.	Dip	Hole No. 102
Dep.	Depth	Bearing	Dep.	Depth	Bearing	

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	% Pb	% Zn	oz T/ Ag	% / oz/T
			<u>END OF HOLE</u> (CASING PULLED)								
			<u>Assay Sections</u>								
106-113						P5869	2.8	0.02	0.06	0.01	
113-114						P5870	0.4	0.56	2.76	0.35	
114-116						P5871	0.6	0.60	7.20	0.44	
116-118						P5872	0.6	0.36	7.00	0.35	
118-121						P5873	1.8	2.48	7.00	0.58	

DATE .... LOGGED BY............

"E"

NORANDA EXPLORATION COMPANY, LIMITED

Collared 24/5/75	Completed 25/5/75	Core Size BQ	Property Quartz Lake, Yukon		Project No 912	NTS No. 95D/12
FIELD COORDINATES			SURVEYED COORDINATES			Sheet 1 of 1
Lat. 5+00N	Elev. 512.1	Dip -90°	Lat. 100,365N	Elev. 512.1	Dip -90°	Hole No.
Dep. 1+07E	Depth 175'	Bearing	Dep. 100,050E	Depth 175'	Bearing	103 10

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.				
0-46.5			Overburden Casing Reamed to 59'								
46.5-60	90		46.5-47 conglomerate:47-56 grey Qte some CO_3 56-57.5 limestone:-60 green Arg.minor Qte								
60-70	98		bands of grey & milky Qte C/A 60-70: with minor green Arg.bands C/A 85°,Core angle 50°								
70-80	95		Interbands grey milky Qte with green & grey Arg. Core angle 70-80°								
80-90	95		Grey Qte & minor greenish Arg. & silic. lime-stone. 88.5-90 shaly Ls,core angle 70°								
90-100	97		Dark silic. grey Lst. and shaly limestone								
100-111	98		Dark gr. silic. and shaly limestone								
111-120	70		green Arg. minor grey Qte								
120-130	97		Interbands green & grey Arg. minor grey Qte Core angle 60-70 126 2-3" massive sphal.								
130-140	95		Interbands green & grey Arg.minor grey Qte. Stringers & specs sulfides py,sphal,galena	1%+							
140-150	97		Interbands Green & green Arg.minor grey Qte stringers spec. sulfides py.sphal.galena(massive sulfide & 145.5) 3" wide	1+							
150-160	98		Interbands green & grey Arg.minor grey Qte Stringers & specs sulfides py,sphal.galena								
160-170	95		Green with some pink Arg. very minor Qte, minor strgrs & specs py,sphal,galena,broken & crumbly	1+							
170-175	?		Green with some pink Arg. very minor Qte								

END OF HOLE (CASING PULLED)

DATE

LOGGED BY G.Lee

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size BQ	Property Quartz Lake, Yukon		Project No 912	NTS No. 95D/12
FIELD COORDINATES			SURVEYED COORDINATES			Sheet 1 of 2
Lat.	Elev.	Dip	Lat. 100,288N	Elev. 533.8	Dip -90°	Hole No. 104
Dep.	Depth	Bearing	Dep. 100,240E	Depth 265'	Bearing	

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.
– 20			Overburden Casing to 120				
20–30	97		Interbands Arg.,pink,purplish,pink,greenish grey and grey qtzite C/A 60-70°,very minor py specks and stringers C/A 70°				
30–40	97		Interbands Arg.,green,pink,purplish pink,and grey qtzite C/A 70°,very minor py specks & stringers C/A 50-60°				
40–50	95		Interbands purplish pink,grey & pink Arg. with minor grey qtzite C/A 60-70°				
50–60	95		Interbands Arg.,green,pink,purplish pink,grey with very minor grey qtzite. core angle 60-70°				
60–70	95		Interbands Arg.,green,pink,purplish pink,and minor qtzite.Parts of Arg.core crumbly:1.C/A 20° 2.C/A70°,3.C/A 20°				
70–80	97		Interbands Arg.,green,pink and qtzite,grey and milky white,very minor specks & narrow stringers py. 1. C/A 60-70°, 2. C/A 45°				
80–90	90		Interbands qtzite (grey & milky white) and Arg., pink, green, purplish pink. Minor specks py. 1. C/A 70°, 2. C/A 60°				
90–00	90–95		Interbands green Arg. and qtzite (grey & milky white).Minor specks py. 1. C/A 60-70°, 2.C/A80°, 3. C/A 70°				

DATE .... LOGGED BY D.E.P./G.L.

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property Quartz Lake, Yukon	Project No 912	NTS No. 95D/1
FIELD COORDINATES			**SURVEYED COORDINATES**		Sheet 2 of 2
Lat.	Elev.	Dip	Lat.	Elev.	Dip
Dep.	Depth	Bearing	Dep.	Depth	Bearing

Hole No. 104

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.				
200-210	95		Green & greyish Arg. interbands. Numerous grey qtzite lenses & bands. Parts of core crumbly, soft, Core angle 80°								
210-220	97		Interbands grey & green Arg. very minor py. Core angle 70-80°								
220-230	97		Interbands grey and green Arg. very minor grey qtzite. Core angle 70-80°								
230-240	97		Green Arg. & minor bands grey & milky white qtzite. 1. C A 60°, 2. C/A 70°								
240-250	97		Interbands grey & green Arg. Minor grey & milky white bands of qtzite. Core angle 70°								
250-260	95		Interbands green & grey Arg. with minor bands grey & milky white qtzite. Parts crumble(pale green Arg.) Core angle 70-80°								
260-265	?		Interbands grey & green Arg. & grey & milky white qtzite.								
			END OF HOLE (CASING PULLED)								

DATE

LOGGED BY D.E.P./G.L.

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size BQ	Property Quartz Lake, Y.T.		Project No 912	NTS No. 95D/1
FIELD COORDINATES			SURVEYED COORDINATES			Sheet 1 of 2
Lat. 0+30N	Elev. 521.6	Dip -90°	Lat. 101,393.2	Elev. 521.6	Dip -90°	Hole No.
Dep. 1+22E	Depth 292	Bearing	Dep. 100,184.2	Depth 292	Bearing	105

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.
0-114			Overburden. Casing @114'				
114-120	80		114-117.6 Purple Arg. minor grey QTZTE Interbands 117.6-120 Interbands green & pink Arg.(crumbly, broken,sheared) c/a 70-80°				
120-140	96		ARGILLITE interbands purple, green and pink with minor bands, lense of grey qtzte. minor specs & stringers py. c/a 60-80°				
140-150	95		Interbands pink,green & purple ARG.(rainbow effect). c/a 70°.				
150-180	96		Interbands purple, pink & green ARG.with minor bands grey milky white QTZTE. c/a 60-70° 160-5 green, pink ARG.minor QTZTE. core soft, crumbly,sheared. broken 165-166.5 purple ARG. minor bds. grey qtzte. 165-170 interbands green, pink ARG. minor grey QTZTE. Minor specs & stringers of Pyrite.				
180-194	95		ARG. Interbands & laminations of green-pink with minor grey QTZTE bands. Deformed bands at 188'. crumbly, soft gouge @ 188.7-189.7; milky white QTZTE str.& bds @ 193'. minor py. specs & stringers				
194-228	97		Green ARG. Minor grey ARG. stringers and narrow bands. minor specs and stringers py. associated with grey ARG. 2" grey QTZTE at 200'. 4" crumbly gouge (green Arg.) at 221,226				

DATE LOGGED BY

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property Quartz Lake, Y.T.	Project No 912	NTS No.
FIELD COORDINATES			SURVEYED COORDINATES		Sheet 2 of 2
Lat.	Elev.	Dip	Lat.	Elev.	Dip
Dep.	Depth	Bearing	Dep.	Depth	Bearing

Hole No. 105

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	% Pb	% Zn	oz/T Ag	%
228-243	95		Green ARG. minor grey QTZTE bands. Minor py specs & stringers								
243-245.5	90		QTZTE grey, pinkish, purple and milky white (silic.Arg?) with laminations grey Arg. Pale green crumbly sheared ARG.								
245.5-246.5	90		Pale green crumbly sheared ARG. with QTZTE fragments.								
246.5-248	95		Massive sulfides sphalerite, galena and pyrite.			246-251 P5880	5	2.32	4.40	.93	
248-250	95		Sooty pyrite and crumbly, sheared pale green ARG.Minor sphal. galena								
250-256	95		Pale green Arg. - soft, crumbly, sheared			251-256 P5881	5	.04	.01	.01	
256-278	95		Grey to black carbonaceous zones. core soft, crumbly @ 274 sub rounded to angular QTZTE			256-261 P5882	5	.04	.01	.01	[illegible]
			fragments in sooty carbonaceous matrix (graphitic) (4"). 2-6 inch zones grey qtzte			261-266 P5883	5	.02	.01	.01	
			at 266.7,268,273.5. Narrow bands pyrite.								
278-292	95		Dirty grey to milky white QTZTE with laminations & stringers black carbonaceous material. Narrow irregular bands stringers of f.g. py. Deformed laminations grey QTZTE.								
			END OF HOLE - CASING PULLED								

DATE ____________ LOGGED BY ____________

"R"

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size BQ	Property Quartz Lake, Y.T.	Project No 912	NTS No. 95D/1
FIELD COORDINATES			SURVEYED COORDINATES		Sheet 1 of 2
Lat. 0+07W	Elev.	Dip	Lat. 101,467.4	Elev. 500.3	Dip -90°	Hole No.
Dep. 15+92N	Depth	Bearing	Dep. 100,063.5	Depth 250	Bearing	106 106

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.
0-86			Overburden. Sand gravel, boulders. Casing to 86' Bedrock 86'				
			ARG. Interbands purple, pink minor deformation & folding. minor bands green Arg. C/A 30-45°				
86-108.3	95		101-103 Gouge. sheared crumbly				
108.3-128	95		Interbands, partings laminations purple, pink & green ARG. 115-2" grey QTZTE. minor py specs				
128-134.5	95		same. minor deformation. Core angle 70°				
134.5-136	85		4"milky white QTZTE @ 128.5. ARG. pink,green sheared gouge. minor QTZE frag. ¼" lens sphal.				
			galena @ 135.6				
136-142	85		Green ARG. minor grey QTZE. broken core. Much gouge. minor py specs.				
142-155	80		same. minor deformation. Minor Pyrite. Grey QTZTE. bands. frgs. lens in pale green soft				
			crumbly sheared ARG.				
155-161	95		Green, pinkish ARG. as interbands, laminations & partings, with grey green to pink QTZE (silic.				
			arg.?) minor py. @ 162,168,170 - 4"-6" zones QTZTE frags in pale green sheared crumbly ARG.				
161-179			QTZTE - grey to white with laminations green ARG.				
179-180	95		minor f.g. sooty pyrite				
180-181.6			ARG. pale green, soft, sheared, crumbly sub round to angular QTZTE frags.				

DATE ______ LOGGED BY G.Lee

"R"

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property	Project No	NTS No.
FIELD COORDINATES			**SURVEYED COORDINATES**		Sheet 2 of 2
Lat.	Elev.	Dip	Lat.	Elev.	Dip
Dep.	Depth	Bearing	Dep.	Depth	Bearing

Hole No. 106

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	%Zn	%Pb	oz/T Ag	% C OZT
181.6-195.7	95		Interbanded green grey ARG. with grey and milky grey QTZTE. C/A 60-70°			180-185 P5751 185-190 P5752	5 5	0.04 0.40	0.02 0.02	0.04 0.02	.01
195.7-196.2	95		Massive sulfide Sphal. Galena, Pyrite			195-200 P5884	5	13.0	4.96	2.21	0.01
196.2-197.0	95		Green ARG.								
197.0-198.0	95		Massive sulfide sphal. galena, pyrite								
198.0-199	95		f.g. sooty pyrite. minor sphal. galena								
199-201	95		f.g. pyrite. minor green ARG. grey QTZTE								
201-202.5	95		Green Arg. Grey QTZTE. minor pyrite			200-204 P5885	5	.20	.02	.11	
202.5-208	95		Pale green soft crumbly sheared ARG. with QTZTE lens. frags.			P5753 204-209	5	0.02	0.02	0.01	
208-225	80		(black fault) soft grey to black carbonaceous material, lens & frag. QTZTE.208-216 highly sheared			209-214 P5754	5	0.01	0.02	0.01	
			210-211.3 grey QTZTE. f.g. pyrite lens. lamin. common. Grey & milky white QTZTE with carbonaceous			214-219 P5755	5	0.01	0.02	0.01	
225-250	95		(graphitic)banded, laminated and contorted. as above. f.g. pyrite common in QTZTE.			219-225 P5756	5	0.01	0.02	0.01	
			END OF HOLE. CASING PULLED								

DATE ____________ LOGGED BY ____________

NORANDA EXPLORATION COMPANY, LIMITED

Collared 9/6/75	Completed 10/6/75	Core Size BQ	Property Quartz Lake, Yukon	Project No 912	NTS No. 95D/1[illegible]
FIELD COORDINATES			SURVEYED COORDINATES		Sheet 1 of 2
Lat.	Elev.	Dip	Lat. 101,633.0	Elev. 503.8	Dip -90°
Dep.	Depth	Bearing	Dep. 100,295.9	Depth 348	Bearing

Hole No. 107 107

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	% Zn	% Pb	oz/T Ag
0-117			Overburden. Casing at 117'							
117-120	60		Pink green ARG. Core angle 50							
120-130	90		Interbanded pink grey QTZTE (silic.ARG?) Minor strgrs & specks f.g. pyrite	2±						
130-162	95		Green ARG. & minor grey qtzte.(laminated & narrow bands)Minor strgrs & specs. f.g. py	0.5						
162-164	95		Green & grey ARG.bands minor grey QTZTE bands minor fine py. C/A indistinct-deformation alteration of Argillite							
164-173	95		Green ARG. bands grey ARG. Minor pyrite specs.							
173-188										
188-189	95		Grey QTZTE fragments in soft crumbly sheared pale green ARG. Green ARG. - interbands laminations of grey QTZTE minor pyrite							
189-205										
205-206			Grey QTZTE frags in crumbly soft pale green ARG. sheared. C/A indistinct							
206-210	90		Frags & narrow bands grey QTZTE in green ARG. 208.5-1/8"-1/4" sphal.galena.209.0 1" band sphal. galena. c/a indistinct			208-209.8 P5886	1.8	4.20	0.34	0.15
210-228	95		Narrow bands, lens, frags. grey QTZTE in green ARG. Minor specs strgrs pyrite							

DATE ________ LOGGED BY G.Lee/D.Pegg

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property Quartz Lake, Yukon	Project No	NTS No. 95D
FIELD COORDINATES			SURVEYED COORDINATES		Sheet 2 of
Lat.	Elev.	Dip	Lat.	Elev.	Dip	Hole No. 107
Dep.	Depth	Bearing	Dep.	Depth	Bearing	

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	Pb	Zn	Ag
228-255	95		Interbanded green ARG. Minor py. gouge @ 244 1'. core angle 50-70							
255-257	95		Grey QTZTE frags in soft crumbly sheared pale green ARG.							
257-260	95		Grey QTZTE bands separated by pale green soft ARG. laminations							
260-264	95		Interbands grey & green ARG.							
264-279	95		Dirty grey QTZTE frags bands in soft crumbly sheared pale green ARG.							
279-282			Sooty fine gr. pyrite							
282-300	98		Grey QTZTE frags lens bands in dark grey to black carbonaceous material (black thrust fault?)	5		290-295 P5757	5	0.02	0.01	0.01
			Bands or strgrs fine gr. pyrite common							
300-302	98		Grey QTZTE - laminations graphitic pyritic material	5						
302-309	98		Interbands laminations grey QTZTE and graphitic ARG. pyrite common.	5						
309-311	98		Grey QTZTE frags & lens in black graphitic material							
311-314	98		grey to dark grey QTZTE							
314-348	98		Interbanded-laminated grey to black carbonaceous (graphitic) material and grey QTZTE. Pyrite strgrs common							
			END OF HOLE - CASING PULLED							

DATE ____________ LOGGED BY ____________

NORANDA EXPLORATION COMPANY, LIMITED

Collared 11/6/75	Completed 12/6/75	Core Size BQ	Property Quartz Lake, Y.T.	Project No 912	NTS No. 95I
FIELD COORDINATES			SURVEYED COORDINATES		Sheet 1 of
Lat. 19+80N	Elev. 497 7	Dip -90	Lat. 101,848.9	Elev. 497.7 / Dip -90	Hole No.
Dep. 0+08E	Depth 303	Bearing	Dep. 100,128.0	Depth 303 / Bearing	105 108

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	% Zn	% Pb	oz/T Ag
0-113			Overburden Casing @113'							
113-135	95		Green Pink ARG. bands & frags QTZTE (grey). 127-128.5 pinkish Arg. QTZTE 130-131							
			117-121 6", soft crumbly pale green ARG. (gouge?)							
135-137			purple ARG. minor narrow bands grey qtzte core angle indistinct							
137-155	98		Interbanded light purple, purple, pink, green ARG. with grey qtzte. core angle 60°							
155-162	95		Interbanded pink and green ARG. with narrow bands grey qtzte.minor py strgrs.(f.g.) c/a indistinct							
162-176.6	85		Green & pink ARG. minor grey qtzte. core badly broken.soft crumbly. c/a indistinct(deformed)banding							
176.6-179	90		Purple pink green ARG. minor narrow bands grey qtzte.							
179-180			soft crumbly							
180-193			Pink & green ARG. with narrow bands strgrs grey qtzte. Strgrs f.g. pyrite.c/a indistinct(deformation)							
193-220	90		Core soft crumbly 193-4, 198-200, 201,206-207.5, 210-210.3,210.5-211.6,214-214.5							
220-221			Grey qtzte with green ARG. laminations							
221-233	95		Green & grey ARG. minor grey qtzte. soft crumbly sheared, minor pyrite			232-237 P5887	5	3.50	1.00	0.46
233-237	95		Qtztes with some CO_3. massive sulfides sphal., galena,py.233^{0}-233^{5},236^{5}-237^{0}							

DATE ______________ LOGGED BY G.Lee/D.Pegg

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property Quartz Lake, Y.T.	Project No 912	NTS No. 95D/
FIELD COORDINATES			SURVEYED COORDINATES		Sheet 2 of
Lat.	Elev.	Dip	Lat.	Elev.	Dip	Hole No.
Dep.	Depth	Bearing	Dep.	Depth	Bearing	108

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	Pb	Zn	Ag
237-285	95		Grey to black carbonaceous with interbanded fragmented laminated grey qtzte and minor f.g. sooty pyrite.(Black Thrust Fault Zone)			255-260 P5758	5	0.02	0.01	0.01
285-303	95		Grey to black carbonaceous with interbanded fragmented laminated grey qtzte and minor f.g. sooty pyrite(Black Thrust Fault Zone)	5						
			END OF HOLE - Casing Pulled							

DATE .... LOGGED BY ....

NORANDA EXPLORATION COMPANY, LIMITED

Collared 13/6/75	Completed 14/6/75	Core Size BQ	Property Quartz Lake, Y.T.		Project No 912	NTS No. 95D/12
FIELD COORDINATES			SURVEYED COORDINATES			Sheet 1 of 2
Lat. 16+48N	Elev.	Dip	Lat. 101,486.1	Elev. 526.2	Dip -90°	Hole No.
Dep. 3+40E	Depth	Bearing	Dep. 100,415.8	Depth 337	Bearing	109 109

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.
0-130			Overburden				
130-132	100		Pale green compact unbanded few pale ARG. grey bds. @ 50°				
132-137	98		Grey green "spotted" ARG. small elliptic "boudins" to ½". long distinct contact (green to grey) at 15° to core. Small drag folds near par^{ll}. 135-136 pyrite in drags & "boudins"				
137-167	98		Mostly pale green ARG. with narrow grey green bands generally 40-60°. Fairly compact to 141 than many micro-faults, breaks, small gashes with pyrite in gashes from near par^{ll} to 30° to core. pyrite 1±%				
167-230	95		ARG. grey green slightly spotted with small drag folds 1" Ø @ 45° to core at 170-171,199, blocky broken parts with heavy gouge 213-215^{6}. 226' a bright striated "slick" 30° to core over 2". "Boudin" @ 203,217,217. usually in grey green ARG. @ 50° to core. Same as basic cleavage				
230-247	95+		Grades to bands grey to dark grey f.g. QTZTE with green ARG. and short gouge zones. fract. @ 45°,50°. Some white milky quartz veins (2" to 4") very broken. water return lost several times starting at end casing. 1 foot near solid py. @ 231-2.				
247-257	50		Faulted zone(?) 251-257 (4' lost core) Broken angular to sub ang. pcs.grey qtzte. Some grey green to creamy green gouge. Fine banded py. minor dissem. pyr.	2±			

DATE LOGGED BY DP

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property: Quartz Lake, Y.T.	Project No: 912	NTS No. 95D/1
FIELD COORDINATES			SURVEYED COORDINATES		Sheet 2 of 2
Lat.	Elev.	Dip	Lat.	Elev.	Dip / Hole No.
Dep.	Depth	Bearing	Dep.	Depth	Bearing / 109

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	% Zn	% Pb	oz/T Ag
257-266			Faulted zone(?). Broken angular to sub angular pcs. grey qtzte. Some grey green to creamy green gouge. Fine banded py. minor dissem. pyrite. with fractured grey QTZTE and Argillaceous gouge(?) (no water return)							
266-277			Grey QTZTE - some milky white qtzte. Minor green arg.partings							
277-279			Dark grey arg. qtzte. well min. fine py	5±						
279-296	100		Grey f.g. qtzte. Some chunks & strgrs white quartz. Minor pale green arg. partings. Parts sl. contorted-fract.-x fract.-py, minor in fract. more compact more white qtz 287. c/a 45° steepens to 80° @ 287.			297-303 P5888	6	6.60	2.64	1.06
296-308	100		Grey qtzte. Well min. to near solid Zn Pb. very banded (@ 80°). 296-304 (combined) →	10		P5889 303-305	.5	0.12	0.28	0.20
			(no water return) 304-308 (combined) →	5						
308-311	100		Grey green ARG. Few bands white qtzte, parts phyllitic, occasional creamy dolomite (309-311) coarsely banded and disseminated Pb,Zn,Py	2-		305.5-310.5 P5890	5	2.80	1.92	0.68
311-319	100		Grey green ARG. soft gouge. some sub angular white quartzite							
319-337	100		Quartzite - graphite (Black Thrust) much sooty py. as typ.previously(pyrite only) → core angle 90°	5		320-325 P5759	5	0.01	0.02	0.01

DATE ____________ LOGGED BY ____________

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size BQ	Property Quartz Lake Y.T.	Project No 912	NTS No. 95D/

FIELD COORDINATES			SURVEYED COORDINATES			Sheet 1 of 2
Lat.	Elev.	Dip	Lat. 100,932.4N	Elev. 557.0	Dip -90°	Hole No.
Dep.	Depth	Bearing	Dep. 100,405.9E	Depth 298	Bearing	110

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	% Pb	% Zn	oz/T Ag
0-130			Overburden - Casing (gravel,sand,boulders)							
130-156	95		ARG. purple, pink, minor green to silif.Arg. bands grey, minor. c/a 50-60°. Grey green ARG.							
			to sil. Arg. to QTZTE. - some fine sil. fract. x fract. badly broken parts 160 - mud seam - 4'							
			lost core reported 168-172							
156-172	90		as above. contorted, brecciated, some 'slicks' fault(?) 60°							
172-190	95		Gashes. Boudins @ 177. Brown fr. fills @ 180 par[ll] to core							
190-227	95		Interbands pale green ARG. & grey QTZTE - more compact & widely banded - few x fract.70-80°							
			- small drag @ 195 "boudins" @ 199 @ 70° - generally less silic.							
227-248	95		ARG. grey green- gashes & fract.230-235 small drag par[ll] at 240							
248-252			gouge - green argillaceous							
252-258			green ARG. & QTZTE							
258-260			QTZTE - grey fractured							
260-261.5			Gouge Dr.green Arg. &Qtze with fine py							
261.5-263.5	90		solid to near solid sulfide ZnPbPy,compact with creamy buff dolomite,Est.15% comb.			261.5-267.5 P5891	6	3.76	8.80	1.52
263.5-265.5	60		- well min. to mod. Zn,Pb.Py very broken,shattered.Core angle 75° 260-270.QTZTE pebbles &							

continued over

D.F.P.

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property Quartz Lake	Project No 912	NTS No.
FIELD COORDINATES			SURVEYED COORDINATES		Sheet 2 of
Lat.	Elev.	Dip	Lat.	Elev.	Dip	Hole No.
Dep.	Depth	Bearing	Dep.	Depth	Bearing	11

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	% Pb	% Zn	oz/T Ag
263.5-265.5	(cont'd)		gouge - much gouge missing(?) (Note, no water return after 151)							
265.5-267	95		Banded n.s.sulfide Pb,Zn,Py with arg.& creamy dolomite.distinct 20° graphitic slick at 267							
			Est.10% +							
267-270	60		Broken dk grey arg.shears & gouge.some buff dol. bands & grey QTZTE pebbles. Est.5%			267.5-271.0 P5892	3.5	2.08	5.30	0.76
270-273.5	15		Grey to milky white QTZTE very broken, shattered pieces with Zn, much py.(271-272) handfull of			271-272 P5893	1	1.00	1.80	0.38
			pebbles 15% recovered with chunks sphal,gal. fine py,major to sparse.Fract.par ll to core			272-273 P5894	1	0.48	2.40	0.28
273.5-274			white QTZTE							
274-293			green to dk grey phyllitic ARG gouge parts fine py, bands 267. c/a 75°							
293-296	98		grades to pale green ARG. Highly sheared many fine partings							
296-298			as above with some grey QTZTE, milky QTZ, much pyrite as bands & dissem. Est. 5%							
			(Note: hole not bottomed in Black Thrust)							
			END OF HOLE - Casing Pulled							

DATE LOGGED BY

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property QUARTZ LAKE	Project No 912	NTS No. 95D/12
FIELD COORDINATES			SURVEYED COORDINATES		Sheet 1 of 2
Lat. 7+08N	Elev.	Dip	Lat. 100,542.2	Elev. 510.9	Dip -90°	Hole No. 111
Dep. 3+94E	Depth	Bearing	Dep. 100,353.6	Depth 203	Bearing	

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	% Pb	%Zn	oz/T Ag
0-70			Overburden. Casing to 90'							
70-113.8	95		Pink ARG. with minor bands green Arg. Grey QTZTE deformation common. minor py- partings & stringers							
			Purple 92-93, 113-113.7, core angle 50-70° indistinct							
113.8-117.5	95		Grey to pinkish QTZTE - interbands & laminations of green & pink ARG.minor py specks c/a 50-70°							
117.5-125.0	95		Purple ARG. minor interbands & laminations grey QTZTE. 6" pink Arg.@120 deformed bands c/a 60°							
125.0-127.5	95		Soft crumbly sheared green & pink ARG. minor frags & bands grey qtzte. c/a 60°							
127.5-129.5	95		Purple ARG. minor bands (deformed) grey QTZTE c/a 60°							
129.5-131	95		Pink ARG.with minor bands & laminations grey quartzite c/a indistinct							
131-136	95		Purple ARG. minor bands, laminations of pink green ARG. & grey QTZTE. c/a indistinct							
136-139	93		Pink ARG. with minor bands & laminations of grey QTZTE & green ARG. minor py specs.deformation							
			common. c/a 70-80°,							
139-141	95		Soft green crumbly sheared green ARG. minor grey QTZTE frags. minor py specs. c/a 70-80°							
141-160	98		Green ARG. with interbands.lam.grey ARG. & grey QTZTE 2"-4" gouge 154&155' c/a 70-80°							
160-164	30		Cave? green& pink Arg.(from above?)			164-169 P5895	5	1.52	8.00	0.64
164-173.5	95		Moderate mineralization. sphal.galena,pyrite. Est. 8% c/a combined Pb-Zn.			169-173.5 P5896	3.5	2.96	8.20	1.18

DATE ______________ LOGGED BY G.L./D.P.

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property Quartz Lake		Project No 912	NTS No.
FIELD COORDINATES			SURVEYED COORDINATES			Sheet 2 of
Lat.	Elev.	Dip	Lat.	Elev.	Dip	Hole No.
Dep.	Depth	Bearing	Dep.	Depth	Bearing	111

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.			
173.5-188	75		Footwall carbonaceous zone with lam. & bds of green ARG. soft crumbly, sheared. minor grey Quartzite frags. c/a indistinct							
188-192	95		Green and grey ARG. bands & laminations with minor grey QTZTE bands							
192-203	95		Green ARG. with minor grey qtzte bands & lam. core soft crumbly, highly sheared esp. 192,195, 200							
			END OF HOLE - Casing Pulled							

DATE LOGGED BY

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property QUARTZ LAKE, Y.T.		Project No 912	NTS No. 95D/12
FIELD COORDINATES			SURVEYED COORDINATES			Sheet 1 of 2
Lat. 14+00N	Elev.	Dip	Lat. 101,223.2N	Elev. 549.5	Dip -90°	Hole No. 112
Dep. 4+00E	Depth	Bearing	Dep. 100,435.2E	Depth 347	Bearing	

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	%Pb	% Zn	oz/T Ag
0-145			Overburden. Casing reamed to 160'							
145-157	25		Green ARG. & grey QTZTE pebbles. Cave? c/a indistinct							
157-203	95		Green & grey ARG. Interbands. occ. grey qtzte band with f.g. py specs. core soft crumbly 189-191 soft crumbly shd 195.8-196.5,201-203 c/a 50-60°							
203-248.5	95		Grey QTZTE with bands & laminations grey & green ARG. soft, crumbly, sheared 228-229 c/a variable indistinct 60-80°							
248.5-278	98+		Interbands grey QTZTE & green ARG. with laminations & partings gr. ARG. c/a indistinct with deformation							
278-296	98		Grey QTZTE with bands, laminations green and grey ARG. c/a 65-75° deformation							
296-321	95		as above. c/a 60-80° deformation			317-321 P5897	4	0.02	0.31	0.06
321-327	97		moderate to well min. Zn,Pb,Py. Est.8% comb.			P5898	6	2.68	8.40	1.06
327-329	97		Grey to black carbonaceous Arg. sparse py.							
329-330	97		Soft, crumbly, sheared sooty fine-gr. py - minor Zn,Pb 3% Est. 2% comb.							
330-339	95		Green & light pink Arg. with minor grey qtzte bands and fragments. Soft, crumbly sheared minor py stringers & partings							

DATE .... LOGGED BY DP

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property Quartz Lake, Y.T.	Project No 912	NTS No. 95D/1:

FIELD COORDINATES			SURVEYED COORDINATES			Sheet 2 of 2
Lat.	Elev.	Dip	Lat.	Elev.	Dip	Hole No.
Dep.	Depth	Bearing	Dep.	Depth	Bearing	112

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.				
339-347	97		Dk grey to black carbonaceous footwall with fragments and bands of grey quartzite								
			END OF HOLE - Casing Pulled								

DATE .... LOGGED BY____

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size BQ	Property Quartz Lake, Y.T.		Project No 912	NTS No. 95D/12
FIELD COORDINATES			SURVEYED COORDINATES			Sheet 1 of 2
Lat. 16+00N	Elev.	Dip	Lat. 101,394.5	Elev. 559.3	Dip -90°	Hole No.
Dep. 6+00E	Depth	Bearing	Dep. 100,668.9	Depth 416	Bearing	113

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	% Pb	% Zn	oz/T Ag
0-203			Overburden.Casing reamed to 220 - v.blocky grnd							
203-204	100		grey contorted QTZTE - fract. w. brown gashes shear 70°							
204-208	10		mud seam(?) bands sheared grey ARG.							
208-218	60		Pale green ARG.v. broken. some mud seams c/a ind.							
218-222	25		Grey QTZTE & white QTZ grey green ARG. as chips minor py in qtzte. c/a indistinct							
222-226	95		Gouge(?) sheared grey blue ARG. and round to sub ang. sil. fragments							
226-228	50		Chips & pcs grey green ARG. & grey QTZTE. 10% of pcs. well min. py & galena(Zn?)	3+						
			228.4 sh.gougy grey arg. qtz w. min. py 228.7 white qtz vn	3±						
			228.9 sheared gougy grey green Arg.							
228-231.5	95		Grey green ARG. to grey QTZTE. mod.py c/a 60-75°	3+						
231.5-232.5	98		well min. to nearly solid sulfides Py,Pb,Zn.60% sulfides. est. 10% comb.in gougy grey green ARG.			P5899	1	9.60	14.4	2.80
232.5-238	98		& QTZTE. milky white grey fract. QTZTE. Arg. partings. Py	5						
238-238.5	98		4" Irreg. vn. solid sulfide Py,Pb,Zn c/a 30°			237.5-238 P5900	.5	19.6	12.2	17.6
238.5-276	95		Grey green ARG. & grey QTZTE to sil. ARG. parts well min. fine py. calc. vnlts. 248.Drags & cont.							
			@ 250 269 yellow weathered fract. c/a 60-80° to 30° @ 276							

DATE ______ LOGGED BY ______

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property Quartz Lake, Y.T.	Project No 912	NTS No.
FIELD COORDINATES			SURVEYED COORDINATES		Sheet 2 of
Lat.	Elev.	Dip	Lat.	Elev.	Dip	Hole No.
Dep.	Depth	Bearing	Dep.	Depth	Bearing	113

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	%Pb	% Zn	oz/T Ag
276-304	95		same.							
304-335	95		gouge @ 296,304. c/a to 60°@ 300,70°@306,80°@ 315. w. milky white qtz veining @ 335 w Bx							
335-360	95		Grey green ARG. & grey QTZTE minor, very broken sparse.coarse diss. sphal. galena 354-360 w 1" vn well min. Pb,Zn @ 358			354-360 P5776	6	0.92	2.20	0.42
~~360-~~ 366.5	95		as above. Limy parts 363-6 well min. pyrite			360-366.5 P5777	6.5	0.02	0.20	0.06
366.5-368.5	95		solid sulfide pyrite.few dk gr.Aug.partings			P5901	2	0.16	0.10	0.28
368.5 371.5	95		well min. to s.s. pyrite in grey ARG. - QTZTE			P5902	3	3.12	6.20	1.12
371.5-372			s.s. pyrite			P5903	.5	0.08	1.13	0.20
372-375	75		dark graphite sheared ARG. soft broken			P5760	3	0.36	0.84	0.18
375-377	60		as above. Partly s.s. pyrite few bands minor sphal. galena			P5904	2	1.12	2.40	0.48
377-394			ARG. pale green sheared contorted - gougy broken few bands (½") grey QTZTE with pyrite. occ. Zn	3+		382-387 P5761	5	0.16	0.79	0.12
			391-4 well Bx with fine diss. pyrite			387-394 P5778	7	0.02	0.01	0.02
394-401	95		goes to grey green sheared well mineralized to nearly solid pyrite	5		P5905 P5906	3 2	0.36 0.64	0.86 2.40	0.20 0.32
401-416			Carbonaceous zone (Black Thrust). sheared mottled grey QTZTE with graphitic partings.			399-403 P5762	4	0.02	0.01	0.04
			Parts well minerlized. fine pyrite END OF HOLE - Casing Pulled							

DATE ______________ LOGGED BY ______________

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size BQ	Property Quartz Lake, Y.T.		Project No 912	NTS No. 95D
FIELD COORDINATES			SURVEYED COORDINATES			Sheet 1 of
Lat. 16+00N	Elev.	Dip	Lat. 101,064.5N	Elev. 568.9	Dip -90°	Hole No.
Dep. 6+00E	Depth	Bearing	Dep. 100,612.3E	Depth 368	Bearing	114

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	Pb	Zn	Ag
0-190			Overburden. Casing to 190							
190-216	90		Green ARG. minor interbands grey Arg. & grey QTZTE. numerous soft crumbly zones.c/a indistinct							
216-260.5	90		Interbanded green and grey ARG. with grey QTZTE numerous soft crumbly zones with QTZTE frags. Folding prevalent			255-260 P5779	5	0.02	0.01	0.04
260.5-263	95		QTZTE & massive sulfides also minor CO_3 mod. sphal. galena, py.261-265 Est.8% comb.Pb-Zn			260-265 P5780	5	2.04	4.60	0.68
263-266	95		QTZTE & CO_3 with stringer sulfides mod. sphal. galena, pyrite			265-270 P5781	5	0.02	0.01	0.06
266-313	95		Siliceous limestone,hard good quality core							
313-328	95		Green Arg. with minor grey qtzte and pink arg. bands							
328-337.5	95		Interbanded green & grey Arg. with qtzte. Numerous zones soft crumbly sheared. c/a indistinct							
337.5-302	92		Greyish black soft crumbly sheared ARG.							
302-359.5	95		Interbanded green & black ARG. with minor grey QTZTE. c/a 70-80. numerous soft crumbly zones							
359.5-368	95		Grey to black footwall carbonaceous zone with grey QTZTE frags & bands. Also f.g. sooty py bands							
			END OF HOLE - Casing Pulled							

DATE LOGGED BY

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size BQ	Property Quartz Lake, Y.T.	Project No 912	NTS No. 95D/1
FIELD COORDINATES			SURVEYED COORDINATES		Sheet 1 of
Lat. 9+15N	Elev.	Dip	Lat. 100,727.0N	Elev. 597.9	Dip -90°
Dep. 6+16E	Depth	Bearing	Dep. 100,602.4E	Depth 413	Bearing
					Hole No. 115 115

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	Pb	Zn	Ag
0-206			Overburden sand clay boulders Casing reamed to 202							
206-228	98		Purple, pink, maroon ARG. minor green inclus. bands & fract. QTZTE. small faults drags (215 etc) compact exc. 223-8 chlorite 'slicks'							
228-263	95		Green ARG. partings in grey shattered highly fract. QTZTE. very broken.minor fine py c/a@250 85°							
263-276	98		same as above with grey green ARG. c/a@265 65°							
276-290	98		grey green ARG minor QTZTE small drag folds @ 278 near par^{ll} c/a 280' 45-60°,c/a 288'80°							
290-298	95+		Increase grey QTZTE 1" qtz vn @ 298. sparse pyrite			293-298 P5763	5	0.16	0.84	0.06
298-303.5			Grey QTZTE & creamy buff dolomite(?) minor to mod. Zn Pb, mainly as course diss. and fine stringers. parts fair fine pyrite. Est.gr.4%			298-303 P5764	5	0.12	1.48	0.10
303-5-308			Grey siliceous with white veining 1"-3" Arg. partings c/a 70°+			303-308 P5765	5	0.02	0.08	0.06
308-319	95		Siliceous Limestone greyish with white limy to silic veining							
319-366	95		Grey ARG. minor bands grey qtzte and grey to black arg. numerous soft crumbly zones 355-366 brown stained partings. c/a 65-85							
366-378	95		Interbanded green & pale pink ARG. minor bands QTZTE. Rsy stain partings. occ. py stringers							
378-400.5	95		Green ARG. minor qtzte grey bands - rusty stain partings - minor py stringers c/a 50-80°							

DATE LOGGED BY D.P./G.L.

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property Quartz Lake, Y.T.	Project No 912	NTS No.
FIELD COORDINATES			SURVEYED COORDINATES		Sheet 2 of 2
Lat.	Elev.	Dip	Lat.	Elev.	Dip	Hole No.
Dep.	Depth	Bearing	Dep.	Depth	Bearing	11

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.
400.5 413	95		Dark grey to black footwall carbonaceous zone with grey QTZTE bands & fragments. Numerous py bands.				
			END OF HOLE - Casing Pulled				

DATE ______________ LOGGED BY ______________

NORANDA EXPLORATION COMPANY, LIMITED

Collared 26/6/75	Completed 28/6/75	Core Size BQ	Property QUARTZ LAKE, Y.T.			Project N912	NTS No. 95D/12
FIELD COORDINATES			SURVEYED COORDINATES				Sheet 1 of
Lat. 5+04S	Elev. 645.3	Dip -90°	Lat. 99,332.0N	Elev. 645.3	Dip -90°		Hole No.
Dep. 4+15E	Depth	Bearing	Dep. 100,234.8E	Depth 549	Bearing		116

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.
0-94			Overburden - sand, clay, gravel, boulders. Casing to 94				
94-112	95		Limestone dark grey with calcite vns & strgrs. c/a indistinct				
112-119	95		LIMESTONE & GREEN ARG. - interbands. some rusty stain in strgrs & fractures				
119-190	97		ARG. interbanded green & grey minor QTZTE minor rusty stain in fract. & partings 119-150				
			soft crumbly sheared 146-147, 148-148.5, 150-151, 184-184.3, 189-190. Folding common c/a 70-80°				
190-205	95		Interbanded green ARG, grey QTZTE c/a indistinct				
205-213	95		Green ARG. minor grey QTZTE interbands. c/a indistinct 80°				
213-216	95		as above c/a 70-80°				
216-250	95		Green & grey ARG. minor grey QTZTE, soft, crumbly, sheared 241-242. c/a 70°				
250-255	95		Interbanded green ARG. & grey QTZTE c/a 70°				
255-362	95		Intbdd grey, black & green ARG. minor grey QTZTE numerous sections soft, crumbly, sheared c/a 60-80°				
362-400	95		Green ARG. with minor laminations and bands of opaque green silic. Arg. minor rusty fract. & strgrs.				
			c/a 80°				
400-425	95		Interbands pale pink & green ARG. Qtzte @ 414.5-416.5, 422-423 c/a 80°				
425-439	95		Green ARG.				

DATE LOGGED BY

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property Quartz Lake, Y.T.	Project No 912	NTS No.
FIELD COORDINATES			SURVEYED COORDINATES		Sheet 2 of 2
Lat.	Elev.	Dip	Lat.	Elev.	Dip
Dep.	Depth	Bearing	Dep.	Depth	Bearing
					Hole No. 116

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.			
439-441.50	95		ARG. pale green & pink, soft crumbly, sheared							
441.50-452	95+		Interbands green & pale pink ARG. minor pale green narrow silic.ARG. bands c/a 80°							
452-487	95		as above. occasional grey QTZTE bands							
			@ 482 1" band massive pyrite. c/a 70-80°							
487-517	95		ARG. green c/a 70-80°							
517-528	95		Interbanded grey,green,pink - minor grey ARG. Qtzte bands CO_3 stringers present minor folding. c/a 70°							
528-549	95		Dark grey to black footwall carbonaceous zone with qtzte fragments & bands.minor py bands							
			(Black Thrust Quartz Graphite)							
			END OF HOLE - Casing Pulled							
			(No samples)							

DATE LOGGED BY

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size BQ	Property Quartz Lake, Y.T.	Project No 912	NTS No. 95D/12
FIELD COORDINATES			SURVEYED COORDINATES		Sheet of
Lat. 5+00S	Elev.	Dip	Lat. 99,388.2N	Elev. 608.4	Dip -90°	Hole No.
Dep. 1+00E	Depth	Bearing	Dep. 99,936.8E	Depth 405	Bearing	117. 11

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.
0-65			Overburden. Sand clay boulders Casing to 65'				
65-97	95		Dk grey to grey limestone bds stringers calcite				
97-111	95		minor rusty stain along fractures ½" py strgr @ 97'.Green ARG. Interbanded w.minor grey ARG. and grey QTZTE c/a 60-80				
111-204	97		Interbands green ARG. & grey QTZTE 151-170 numerous zones soft crumbly sh^{d} Arg.c/a60-70° indis.				
204-208.50	95		Pale green soft crumbly sheared ARG.				
208.50-239	95		Interbands black & green ARG. minor QTZTE partings & frags.220-240 num.crumbly shear zones Arg. c/a 75-85°				
239-258	95		Green Arg. minor bands black Arg.grey QTZTE numerous zones green sheared Arg.				
258-270	95		Interbands & laminations grey, black and green Arg. & grey QTZTE. c/a 75-85°				
270-277	95		Soft green crumbly sheared ARG. minor pyrite				
277-279	95		Interbanded green ARG. and light green silic. Arg. c/a 70°				
279-289	95		Interbanded & lam. of pale pink & green ARG. with minor grey silic. ARG. bands c/a 70-85°				
289-319	95		Green ARG. interbanded occ. QTZTE bands grey qtzte 294-5				
319-339	95		Interbanded green & pale pink ARG. occ. grey QTZTE band				

DATE ______________ LOGGED BY______________

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property Quartz Lake, Y.T.	Project No	NTS No.
FIELD COORDINATES			SURVEYED COORDINATES		Sheet 2 of
Lat.	Elev.	Dip	Lat.	Elev.	Dip	Hole No. 117
Dep.	Depth	Bearing	Dep.	Depth	Bearing	

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.
339-343	95		Purple ARG. with minor bands pink & green ARG. & grey qtzte c/a 80-90°				
343-374	95		Interbands pink & green ARG. occasional grey QTZTE bands. 368-9 pale green soft sh^{d} Arg. c/a 75-85°				
374-405	95		Dk grey to black F.W.carbonacaous zone with qtzte frags & bands.				
			END OF HOLE:Casing Pulled				
			(No samples)				

DATE .... LOGGED BY............

NORANDA EXPLORATION COMPANY, LIMITED

Collared 3/7/75	Completed 5/7/75	Core Size BQ	Property QUARTZ LAKE, Y.T.		Project No 912	NTS No. 95D/12
FIELD COORDINATES			SURVEYED COORDINATES			Sheet of
Lat.	Elev.	Dip	Lat. 101,194.6N	Elev. 584.6	Dip -90°	Hole No.
Dep.	Depth	Bearing	Dep. 100,831.6E	Depth 479	Bearing	118

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.
0-205			Casing sand, gravel, boulders				
205-270	90		Purple, pink maroon ARG. few pale green zones. Very broken parts. c/a 60-80°				
270-327	95		Grey green ARG. broken. more strgrs and narrow gouge zones. Minor QTZTE. Broken gouge(318-320) c/a indistinct. gen. shallow 30°+				
327-370	95		same. Increase in grey QTZTE: fract. x-fract. sl contorted.10" Qtz vn @ 339.c/a 40°distinct				
370-394	95		same. sl. more ARG. broken. "boudins" @ 371-2. Ls.incl.@ 382-4 c/a 70°±				
394-416	95		Grey f.g. limestone				
416-446	95		Interbanded grey green to pinkish green ARG. phyllitic. few chl. slicks and dark bands c/a 70°				
446-457	95		Interbanded green & dk grey shaly ARG. some soft and highly sheared parts				
457-462	95		Green to greenish-pink ARG.				
462-479	95		Footwall carbonaceous zone. graphite and white quartzite bands & fragments c/a 60-75°				
			END OF HOLE - Casing Pulled				

DATE .... LOGGED BY .... D.E.P.

NORANDA EXPLORATION COMPANY, LIMITED

Collared 5/7/75	Completed 7/7/75	Core Size BQ	Property QUARTZ LAKE. Y.T.		Project No 912	NTS No. 95D/12
FIELD COORDINATES			SURVEYED COORDINATES			Sheet 1 of
Lat.	Elev.	Dip	Lat. 100,877.9N	Elev. 594.6	Dip -90°	Hole No.
Dep.	Depth	Bearing	Dep. 100,811.4E	Depth 446	Bearing	119

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.
0-200			Casing				
200-315	95		grey to green interbanded ARG. very broken parts. frequent chloritic slicks in breaks. Boudins w. fine py @ 212 same as c/a 40°.small drag.(½") @ 232. occl narrow qtz vn 4" qtz vn @ 240,245				
315-335	95		green, grey interbanded ARG. parts sl. more siliceous except broken soft 323-5. 3" Bx @ qtz carb vn at 319 with visible pea size specs galena, some small py cubes				
335-350	95		grey green interbands ARG & QTZTE few narrow qtz vns & qtz carb vnlts.				
350-355	95		grey f.g. limestone with calc. fract & calc. with grey green arg. inclusions calc. fract 40-60°				
355-362	95		grey green sl. platy ARG.				
362-367	95		grey green sl. platy ARG. very broken				
367-381	95		limy contorted with phyllitic ARG. very broken parts minor Bx. minor to mod. pyrite, minor scatt. sphalerite,galena. slick @ 37'@ 65°				
381-389			green platy ARG. many fine chlorite slicks and partings @ 70°+				
389-391.5			grey fine bdd. QTZTE minor pyrite core angle 85°				
391.5-401	95		grey green gougy ARG w qtz veining and fragments mod.py parts.Bx(?) core angle 65°				

July 75 D.E.P.

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property QUARTZ LAKE	Project No	NTS No.
FIELD COORDINATES			SURVEYED COORDINATES		Sheet 2 of 2
Lat.	Elev.	Dip	Lat.	Elev.	Dip
Dep.	Depth	Bearing	Dep.	Depth	Bearing

Hole No. 119

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.
401-404			pale green ARG. core angle 50°				
404-433			Intband. maroon, pink, green ARG. core angle to 90°				
433-437			green to grey ARG. parts considerable calc. fractures				
437-441			carbonaceous zone with QTZTE fragments				
441-446			grey green contorted ARG.				
			END OF HOLE				
			Note: not deep enough into carbonaceous zone -				
			just at start of it)				
			Casing pulled: 70' lost when casing blasted.				
			Core Angles 210=40°, 235=65°, 255=55°, 270=55°,				
			305=65°.				

DATE ______ LOGGED BY ______

NORANDA EXPLORATION COMPANY, LIMITED

Collared 7/6/75	Completed 7/16/75	Core Size BQ	Property QUARTZ LAKE, Y.T.	Project No 912	NTS No. 95D 11
FIELD COORDINATES			SURVEYED COORDINATES		Sheet 1 of 1
Lat. 18+00N	Elev.	Dip	Lat. 101,579.9	Elev. 589.6	Dip -90°
Dep. 8+00E	Depth	Bearing	Dep. 100,901.2	Depth 481	Bearing
					Hole No. 120

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.
0-250			Overburden. Sand clay boulders - difficult boulders (230-250)				
			Note: Tri-cone broke in hole @ 240 but drilled out and recovered.				
250-269	95		Pink to maroon Argillite banded moderately sheared and broken parts.				
269-290	95		Mainly green ARG. interbanded grey-green drk grey boudins w py @ 287. c/a 70°±				
290-330	95		QTZTE minor arg. interbands grey-green qtz veining @ 294-5, broken pts 'slick'@ 302 etc. 70°				
330-341			Interbanded grey-green dk grey ARG.- minor QTZTE c/a 60-70°				
341-342			Grey limestone				
342-344			Green ARG.				
344-410			Grey limestone Calc. fract. @ vns esp.402-408 with micro faults.Arg.partings 354-68				
410-470			Grey-green ARG. minor grey bands QTZTE, few chl 'slicks' lightly sheared & phyllitic, gouge @ 427-9. very soft parts 458				
470-481			Drkgrey to black F.W. carbonaceous zone with qtzte frags & bands. (Quartz Graphite)				
			END OF HOLE. Casing Pulled 10' casing with shoe				
			left in hole. Broke off. No samples.				

DATE July 20/75 LOGGED BY D.E.Pegg

Quartz Lake Property - Final Survey

DDH#	Collar Elevation	Coordinate North	Coordinate East	Hole Depth	Overburden	Top of Zone	Width	Pb+Zn %	Oz/T Ag
111	111 510.9	100,542.2	100,353.6	203		164	9.5	10.29	0.90
112	112 549.5	101,223.2	100,435.2	347	145	321	6	11.08	1.06
113	113 559.3	101,394.5	100,668.9	416	203	231.5	6.5	6.13	1.78
						368.5	3.0	9.32	1.12
						375.0	2.0	3.52	0.48
						397.0	2.0	3.04	0.32
114	114 568.9	101,064.5	100,612.3	368	220	260	5.0	6.64	0.68
115	115 597.9	100,727.0	100,602.4	413		298	5.0	1.60	0.10
116	116 645.3	99,332.0	100,234.8	549	-	nil	-	-	-
117	117 608.4	99,388.2	99,936.8	405	-	nil	-	-	-
118	118 584.6	101,194.6	100,831.6	479			-	-	
119	119 597.6	100,877.9	100,811.4	446	200	372	5	3.21	0.10
120	120 589.6	101,579.9	100,901.2	481	250	nil	-	-	-

TOTAL # DDH - 27

TOTAL FOOTAGE - 8299

AV DDH ~~[illegible]~~ DEPTH - 307.37

DEEPEST DDH - 549

QUARTZ LAKE PROPERTY - FINAL SURVEY   July 2, 1975   All holes vertical measurements in feet

DDH #		Collar Elevation	Coordinate North	Coordinate East	Hole Depth	Overburden	Top of Zone	Width	Pb+Zn %	Oz/T Ag	% Pb	% Zn	Grade x Thickness
94	94	508.9	100,496.8	99,967.6	380	55	60.3	3.7	8.52	1.29	3.12	5.40	
							67.4	1.6	7.08	0.89	1.28	5.80	
							100	45	21.35	3.33	6.69	14.66	960^{75}
95	95	507.3	100,686.5	99,976.8	177	61	104	23	20.03	1.84	4.63	15.40	460^{69}
96	96	517.0	100,875.1	99,997.5	178	64	135	5	3.04	0.29	0.74	2.30	15^{20}
97	97	518.6	100,975.3	100,117.4	194	92	113	15	15.42	1.70	4.23	11.20	231^{30}
98	98	537.5	101,162.9	100,155.4	268	117	202	15.5	10.71	1.09	2.79	7.92	166^{91}
99	99	541.3	101,048.5	100,238.5	250	110	nil	nil	nil	-	-	-	—
100	100	517.9	100,851.7	100,224.7	175	98	143	5	8.12	1.08	3.12	5.00	40^{60}
101	101	508.6	100,660.2	100,194.5	150	73	105	15.5	18.23	2.00	4.11	14.12	282^{57}
102	102	508.7	100,564.5	100,065.6	152	47	113	8	7.76	0.45	1.24	6.52	62^{08}
103	103	512.1	100,366.2	100,049.5	175	46.5	nil	nil	-	-	-	-	—
104	104	533.8	101,291.7	100,238.3	265	120	nil	nil	-	-	-	-	—
105	105	521.6	101,393.2	100,184.2	292	114	246	5	6.80	0.93	2.32	4.48	34
106	106	500.3	101,467.4	100,063.5	250	86	195	5	17.92	2.21	4.92	13.0	89^{60}
107	107	503.8	101,633.0	100,295.9	348	117	208	1.8	4.54	0.15	.34	4.20	8^{17}
108	108	497.7	101,848.9	100,128.0	303	113	232	5	4.50	0.46	1.00	3.50	22^{50}
109	109	526.2	101,486.1	100,415.8	337	130	297	6	9.24	1.06	2.64	6.60	
							297	13.5	5.92	0.76	1.93	3.99	79^{92}
110	110	557.0	100,932.4	100,405.9	298	130	261.5	12.0	9.02	1.04	2.63	6.39	108^{24}

SOUTH [illegible], Y.T.

Diamond Drill Log

HOLE No. 1.

Logged by H.C.G.

Depth From	Depth To	Dist.	Recovery	Angle	Rock Type and Description
0	21.5		0		Casing
	23.5	2'			Limest. Blue gray, f.g. veined by white calcite, barren.
					breccia ? for 1st 4 or 5 ft.
	24.5	1'	1'		Argillite - pale grey, olive, dark streaking at large angle.
	32.3	7.8	2.5'		Silicified grey limestone, minor pyrite.
	45.0	12.7	9'		Sulphides - nearly all pyrite & some sid. & shines Pb-Zn
	59.0±	14.0	6.5'	75°	Argillite - pale to dark grey, few narrow siliceous pyrite layers
					poss. basement contact @ 45'
	61.0	2.0	1'		Argillite with 4 narrow pyritic layers carrying some ZnS
	61.5	0.5	6"		White quartz well mineralized pyr. galena, some blende.
	62.5	1.0	1'		Argillite, pyritic bands and 3 inches white quartz
	66.0	3.5	2.5'		Argillite, olive grey, one veinlet 1/4" blende & galena at 62.6
	75.0	9.0	3.0'		Argillite, veined by minor blende with several siliceous pyrite layers
	87.5	12.5	8.0'		Argillite with minor siliceous sulphide layers, some ZnS
	88.0	0.5	6"		Quartz, white, with pyrite seams
	93.0±	5.0	3'		Well mineralized silic; minor arg; fair pyr & ZnS; some PbS
	104	11.0	8'		Argillite, few pyritic layers, very little ZnS
	114.3	10.3	5'		Argillite, much more mineral, pyr. minor ZnS, in bands with silica.
115.4	127	11.6	8'	80°	Argillite, pale olive grey, with few hard quartzitic layers,
					color banding - 1/8" - 1/4" esp. @ 120' - 124'
84.0	88.7				Better mineralization here than in following section.

Notes - sand grains 125' - 128' small - see if correlat. poss & if confined to def. horiz. don't confuse with pyr. blobs.

SOUTH [illegible] GROUP, Y.T. HOLE No. 2.

Diamond Drill Log. Logged by H. C. G.

Depth From	To	Dist.	Recovery	Angle	Rock Type and Description
0	13.5	13.5	0		Casing
	15.1	1.6	3" chips		Qtz. A, ore Silicified argillite & dolo. mineral pyr. & galena weakly
	20.3	5.2	3' 5'		Arg. Qtz. ore. Silicified Arg. & some grey limestone, modest f.g. pyr. and some Pb Zn
	21.0	0.7	6"		
	27.5	5.5	1'		Argillite - Olive to pale gray, some white silica, nearly barren.
	36.0	8.5	5'		Silicified rock, some argillite partings probably after a partly dolomitic f.g. Q.
	42.0	6.0	6"		Pyrite - fine grained.
	42.5	0.5	2"		Silicified rock and dissem. sulphides.
	44.5	2.0	1'	65° ±	Argillite - pale grey to cream. - basement arg. @ 42.5
	50.5	6.0	2.5'	55°	Argillite and f.g. Q with silicification, dolo. seams.
	51	0.5	2"		Carbonate sand, dolomitic, with some pyrite Ground
	55	4	0		No core
					Note: ... impression that color banding appears sooner below L.S. than in D.D.H. #1
33 ?	42.5				Ore zone could have been in this zone, prob. from 36' - 42.5 (no marker for 36')

SOUTH NAHANNI GROUP, N.T.
Diamond Drill Log

HOLE No. 3
Logged by H.C.G.

Depth From	Depth To	Dist.	Recov.	Angle	Rock Type and Description	
0	16.5	16.5			Casing.	
	30	13.5	13.5	75°	Limestone - grey, f.g. to dense, calcite vlets - barren.	
	35	5.0	5.0		" - brecciated 4" dk. Arg. at 34.5'	
	37.2	2.2	2.2		Dolomite - pale to dk. grey, white calc. strs. very minor py. Pb, Zn (siliceous dolom.)	
	41.5	4.3	4.0		Ore - f.g. pyr. ZnS, PbS & dolo. or ankerite vs. (minor quartz)	
	43.5	2.0	1.5		Low grade - ankerite, veined by py, zn. & pb.	
	44.0	0.5	0.5		Pyrite - minor Zn & Pb	
	44.9	0.9	5"		Pale argillite, banded by repl. Zns & Py & Pb - low grade	)basement
	46.0	1.1	1'		Argillite, several Xcutting vns. Zn & Pb, little pyr.	)color banding py-
	59.9	13.9	90%	65°	Argillite and thin beds dolomitic argillite, dker gray than pale arg. WITH SOME HARDER, dk.grey siliceous layers of imp. f.g.q. sand grns.@ 55½; ZnS Xcut fract.57?' - less than 1/32"	)ol.gln.occas)sand grain)46-48
	63.2	3.3	0.5		Argillite - crushed and ground core.	
	69.4	6.2	5.5		Ore zone - argillite, with siliceous dolo. layers repl. by pyr. some Pb Zn	
	79.3	9.7	8'	65°	Argillite, pale grey soft, minor layers of hard silic. dolomitic Q, few py.vs. and dissem. pyr.	
	82	2.7	1.5		Quartzite - white, fine grained, hard, probably slightly dolomitic (perhaps med. grained qtz. etc.) interbedded with minor pale argillite.	
	86.9	4.9	3.5		Quartzite and argillite, sparsely minz'd in few bands and veinlets, pyr. Zns.	
	91.0	4.1	3.0	70°	Argillite pale grey laminated, minor py.in gen.siliceous layers with carbonate	
	93.5	2.5	2.0		Quartzite - minor arg. layers - minor f.g. pyrite.	
	94.1	1.4	1.0		Argillite - minor pyr. repl.	
	95.1	1.0	1.0		Calcareous quartzite or sands. f.g.quartz grains in lime cement. interbedded with argillite.	
	117.5	21.6	18.0		Argillite - pale to dk. grey, few hard quartzitic layers @ 113'-113.5' minor pyrite repl. Graded bedding. espec. @ 104½' with ZnS close by; banding - grey & light, some are disseminated; pyr.& ZnS @ 117.5' few grns	
	118.5	1.0	8"		Quartz, white, pyrite seams.	
	119.1	1.4			No core - ground.	
	131.5	11.6	9'	75°	Argillite, pale, banded by dk. grey at 120' - 1 sand grain.	
	119.1 - 121.4				Quartz, argillite, siderite py -ZnS vein, crumpled argillite	
	132.2	.0.7	8"		Pyrite & some ZnS dissem. in granular quartz after dolo? quartzite -granular pyr.	

139.7	7.5	5.5	Argillite, minor Q layers, few vs. Pb Zn in first one foot - at 135 ¼" contain many qtz. sand grains also 133
142.5	2.8	2.5	Mineralized quartzite layers - py, Zn, in pale grey argillite - low grade.

Note: except for vs. in arg. ore seems to be a dissem. replacement of impure sandy or quartzitic layers, possibly with a dolomitic matrix.

From 16.5 to 30 - int.bed. ls. and siliceous (i.e. clastic(?) qtz,grains) Ls - note textural diff.

SOUTH NAHANNI GROUP, Y. T. HOLE No. 4

Diamond Drill Log.

Logged by R. A. D.

Depth From	Depth To	Dist.	Recov.	Angle	Rock Type and Description.
0	3.0				Casing
	13.3	10.3	4.5	65°	Olive green Arg. and pred.Q. 9-10½ veined by siderite and with pyrite abund. @ 9' & dissem. elsewhere, some sm.vlets.sphal @ 11.5' 2 specks PbS
	17.0	3.7	3.2		As above with more small veinlets ZnS; some as PBS and Pyr.
	17.8	0.8	0.8		White qtzite with siderite stringer & little dissem. ZnS
	19.2	1.4	1.4	60°	Green & silic. grey Arg. dissem. pyr. some specks ZnS
	19.8	0.6	0.1 +		much pyr. in silic. rock
	22.3	2.5	2.0		Qtzite replac. by much pyr. and fair ZnS - med. grained.
	30.0	7.7	5.5		green & grey arg. 29'-30' 1' quartz with side. & several specks ZnS & PbS
	32.8	2.8	2.4		Predom. f.g. Q. veined by siderite, 2"-3" Qtzite just before 29'
	41.0	8.2	8.0	70°	olive green A sme. sider. veinlets - U minor pyr.
	45.6	4.6	3.3		as above - more siliceous with a little Pyr. little PbS & ZnS, dissem. in fract.
	48.0	2.4	2.0		Olive green & grey A some siderite, some dissem.pyr. and several ZnS stringers (Ca 1/16") @ 46.7
	60.2	12.2	3.5		Mainly fg X'taline quartz; Min. A coatings qtz. intergrown with fair amt. pyr. and fair ZnS espec. 52.7 to 57.2 minor PbS (much chopped & ground core
	61.9	1.7	0		Lost core
	64.3	2.4	0.2		Several pieces as above 1 @ ½" piece massive pyr. & ZnS
	73.9	9.6	2.0		Ol. green A with a few veinlets of pyr.& sphaler. intgrn. with qtz. 1 ZnS. stringer of 3/16" at 73.9
	77.7	3.8	0.5		Chopped silic. rock and quartz and sand.
	Bottom hole				

Note: 48 - 64.3 fair mineraliz. recov. 23% N.B. - No Ls. noted
mineraliz. - blobs & dissem. of sphaler. in qtz. and also ZnS.veinlets Xcut bedding

- key bed - sand grains somewhere between 64.3 - 73.9 some; silica is fragmental along with introd. silica - this is about the expected or predetermined horizon.

SOUTH NAHANNI GROUP, N.T. HOLE No. 5

Diamond Drill Log Logged by H. C. G.

Depth From	Depth to	Dist.	Recov.	Angle	Rock Type and Description
0	20.5				Casing
	33.0	18.5	12.0		Limestone, light grey first 2' then dk. grey mottled, few rusty carb. vs., weak ZnS. dissem. repl. in dolomitic ls. pale grey alteration, for 6" at 33'
	35.8	2.8	2.5		Limestone, carb. stringers, rusty
	46.7	10.9	5.5	0°-15°	Argillite and sandy ls. interbedded - rolling dip down hole ± barren - sand Ls @ 42½', 45.6
	62.7	16.0	12.0		Ore - dissem. & mass. ZnS, py, Pbs, in siderite and sandy dolo.? rock.
	64.9	2.2	2.0		Low grade py. & Zns. in siliceous dolomite and dolo. limestone.
	92	27.1	21.0	60° ?	Ore - high grade Zn, Pb. Py & dolo. vugs. & sid. areas; 73-74 low grade dolo.
	93.9	1.9	3"	45° ?	Argillite, pale grey, some py. & Zn. veining.
	100.4	6.5	8"	45° ?	Argillaceous, hard, silicified, minor. pyrite.
	101.6	1.1	4"		Pyrite - f.g. replacement.
	103.7	2.7	3"		Cherty silicified, barren, pale grey
	106.2	2.5	2"		Pyrite & zinc in siliceous rock, cherty & argillite partings.
	109.0	2.8	1'	70° ?	Pyrite, minor Zn, in cherty silica and argillite partings.
	112.0	3.0	8"		Pyrite, f.g. cherty silica, 2" pale arg. at end.

NOTE: 35.8 - 46.7 - radical angular diff. between argillaceous struct.(?) and color banding, the latter at 0° - 25° to axis of core - angle between struct. 60° ±

- note - in this section sandy Ls = siliceous Ls.

cf. hole #7 - doubt as to use to indicate warping of rock - is it a soft rock struct.?

SOUTH NAHANNI GROUP, Y.T. HOLE No. 7

Diamond Drill Log Logged by R.A.S.

	To	Dist.	Recov.	Angle	Rock Type and Description
0	63.0				Casing.
	65.0	2.0	1.5		U.F.G. limey qtzite & silic.dol. with fine grain. dissem. pyr. repl. espec. at 64ft. Broken core.
	81.0	15.0	8.5		Ore, silic. dolom.(?) with pyr. ZnS & PbS replac. also fair siderite.
	87.1	6.0	5.0		Lt. to dk. grey f.g. l.s. with calcite stringers and some dolom (?) towards 87, breccia in part.
	100.1	13.0	9.0		Ore type rock, fg grey & white silic. & dolom.(l.s.) with in places much "siderite" some pyr. PbS & ZnS, ZnS @ 88
	130.3	30.2	16.0	70° ±	Intbed. pale green arg. & f.g. light cal. l.s. with dark silic. laminated layers - some sider.
	Bottom				Replac. with assoc. & v. sparse ZnS & less PbS - no l.s. past 114'; Zn @ 129; pyr. at end. Grey bands towards bottom.

<u>Note</u> - 83-84 Ls conglomeratic with thin arg. partings X to core 65° effer. but hard to scratch - N.B. minute black specks - silica (?) @ 68.5. Fine black dots - silica (?) in the ore.

87 to 90 - black silica (?) grains - a hard rock.

Addenda			
87.1	90.0		Denser darker - cherty (?) dolom. v. slow fizz., specks of pyr. locally
90	91.6		v.f.g. hard (siliceous ?) dolomitic arg. (R.C.M.) - @ 92 -93.5 = conglomeratic- fine
91.6	93.5	70°	few minor pyr. grains, v.minor, PbS (1 shine) at 92.5

<u>Note</u> - "Siderite" = carbonate but not known def.
Some of the "styolitic" type banding at small angle to core = apparent drag. at 122½' may not be bedding.
Banding at 129' (angle 25°) may be styolitic.

ZONE				SLUDGE						REMARKS	Grade x Thickness	
Comb. Metal	Footage Range	Recov. in Min. Zone	Ratio	Footage From	Wt. Feet	Oz /Ag	% Pb	% Zn	Comb. Metal			
											—	①
7.1											14^{95}	②
2.2											131^{71}	③
				[illegible]-44.0	6.0	2.6	—	13.8	13.8			
16.26	5.0	61.7	0.45								—	④
				[illegible]-47.3	17.3	0.52	0.51	4.56	5.07	No core sample taken in core		
23.77	32.5	71.4	0.40	[illegible]-92.0	43.0	2.41	5.47	13.05	13.52		1081^{54}	⑤
10.29	8.0	50.0	0.45	[illegible]-80.0	15.0	2.46	2.46	10.1	12.76	No sludge taken between 80.0 - 85.0	314	⑦
12.56	14.0	56.0	0.47									
				[illegible]-118.5	81.5	3.5	5.43	8.42	13.85	No corresponding core sample 118.5- 146.7'		
13.76	54.6	68.1	0.44	85-145.0	26.5	0.83	2.02	3.41	5.43			
				[illegible]-160.0	15.0	1.36	0.79	3.17	3.96		1100^{80}	⑧
4.83	≑62.0	≑50.0	0.63	370-160.0	123.0	2.66	4.13	6.70	10.83			
											258^{72}	⑨
12.32	≑17.3	≑82.4	0.43	[illegible]30-1090	21.0	1.93	3.30	7.10	10.40			
											11^{47}	⑩
3.10			0.64									
											—	⑪
											—	⑫
3.6[illegible]											5^{48}	⑬
											—	⑭
											4^{64}	⑮
5.90											4^{94}	⑯
2.[illegible]												
											231^{13}	⑰
7.97	[illegible]	[illegible]	0.73	[illegible]	26.0		1.16	3.08	[illegible]		1348^{50}	⑱
31.00	[illegible]	[illegible]	0.29	[illegible]	44.0		1.3[illegible]	9.36	[illegible].77	106.8 - 130.0 drilled with plug bit		
											143^{73}	⑲
15.97	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	3.72	7.4[illegible]		391^{13}	⑳
8.93	[illegible]	[illegible]	[illegible]	[illegible]	4[illegible].0		[illegible]	4.05	[illegible]			
											—	㉑
7.22	13.6	52.9	0.52	[illegible]	25.0		2.22	4.86	7.08		313^{29}	㉒
9.38	19.2	[illegible]	0.50	[illegible]	30.0		1.97	4.20	6.27		15	㉓

D.D.H.	Year Drilled	Drilled By	Type of Core	Co-ordinates	Bearing	Dip Angle	Hole Length (Feet)	Over-burden (Feet)	[illegible] (Feet)	Core Rec. (%)	Elev. Collar (Feet)	Depth of Minz. Below Collar (Feet)	Elev. Top Minz. (Feet)	Elev. Bottom Minz. (Feet)	Mineralization Footage From – To (Feet)	W.D. (Feet)	% [illegible]	% [illegible]	% [illegible]
1	1945	Noranda	X-Ray	[illegible]N [illegible]E	S4[illegible]°W	-80°	130.6	2.5	56.0	48.4	497.1								
2	"	"		[illegible]N 99,8[illegible]E	S80°E	-80°	55.0	12.4	25.3	39.2	472.0	13.5	459.5	452.0	13.5-22.0	6.5	[illegible]	1.0	1.
3	"	"	"	[illegible]N [illegible]E	S41°W	-80°	[illegible]	[illegible]	38.3	68.6	497.0	38.[illegible]	459.0	45[illegible]9	38.[illegible]-4[illegible]	8.1	[illegible]	[illegible]	12.
4	"	"	"	99,9[illegible]N [illegible]E	S21°E	-87°	71.8	3.0	40.8	45.5	436.7								
5	"	"	"	100,018N 100,010E	S41°W	-85°	112.0	20.5	38.0	58.4	504.0	46.6	45[illegible]	412.0	46.6-92.0	45.4	3.[illegible]9	[illegible]	1-
7	"	"	"	99,986N 100,115E	S41°W	-87°	134.4	58.0	31.3	52.5	514.6	65.0	449.6	424.[illegible]	65.0-91.0 / 65.0-[illegible]	16.0 / 25.0	2.30 / 1.54	4.96 / 2.[illegible]	1[illegible] / 9
8	1951	AS+R	EX	100,076N 100,002E	S5°30W	-70°	200.0	37.0	71.0	56.4	510.6	38.5	475.1	395.1	38.5-118.5 / 146.0-159.0	80.0 / 12.3	1.33 / 0.56	4.41 / 0.81	9. / 4.
9	"	"	"	100,277N 100,030E		-90°	139.0	47.0	50.9	41.5	513.1	88.0	425.1	404.1	88.0-109.0	21.0	1.43	3.41	8.
10	"	"	"	100,477N 100,050E		-90°	225.0	69.0	88.3	35.1	510.5	119.0	391.5	387.8	119.0-123.0	3.7	1.10	1.70	1.
11	"	"	"	100,[illegible]N 100,[illegible]05E		-90°	199.0	65.0	90.3	32.6	522.5								
12	"	"	"	99,851N 100,17[illegible]E		-90°	36.0	36.0	38.5	61.5	528.[illegible]								
13	"	"	"	99,660N 100,149E		-90°	128.0	30.0	42.0	57.1	54[illegible]	103.0	443.4	442.1	103.0-104.5	1.5	[illegible]	[illegible]	3.
14	"	"	"	99,903N [illegible]E		-90°	135.0	[illegible]	77.1	29.9	515.8								
15	1952	"		[illegible]N 99,95[illegible]E		-90°	2[illegible]	40.0	46.2	72.6	536.1	12[illegible].4	[illegible]	[illegible]	1[illegible].4-1[illegible]	[illegible].8[illegible]	[illegible]	3.00	2.
16	"	"	"	100,245N 100,225E		-90°	199.0	78.0	18.5	24.7	518.4	167.8	3[illegible]	348.7	167.8-169.7	1.9	[illegible]	Tr	3.
17	"	"	"	[illegible]N [illegible]E		-90°	[illegible]	37.5	46.2	[illegible]	50[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29.0	[illegible]	[illegible]	[illegible]
18	"	"	"	[illegible]37N 99,8[illegible]E		-90°	13[illegible]	[illegible]	30.[illegible]	65.6	47[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	43.5	[illegible]	[illegible]	12.
[illegible]				[illegible]N 99,[illegible]E		-90°	[illegible]	[illegible]	[illegible]	[illegible]	4[illegible]	52	[illegible]	[illegible]	52-[illegible]	9.0	[illegible]	[illegible]	[illegible]
[illegible]	"			100,931N 99,795E		-90°	195.0	3[illegible]	[illegible]	52.8	514.7	[illegible]	[illegible]	[illegible]	[illegible]	43.3	[illegible]	1.53	[illegible]
21	"	"	"	101,119N 99,644E		-90°	151.0	[illegible]	78.1	40.1	[illegible]		[illegible]	[illegible]					
22	"	"	"	101,103N 99,827E		-90°	243.0	103.8	49.2	64.7	537.[illegible]	184	[illegible]	[illegible]	1[illegible]2.0-217.7 / 184.0-217.7	25.7 / 33.4	1.63 / 1.37	2.95 / 2.4[illegible]	8 / [illegible]
[illegible]				101,312N															

% comb

											Grade x Thick.	
.53	13.22	4.0	43.9	0.35	[illegible]–114.3	4.3	0.93	1.09	2.77	3.36	152.60	25
.2	9.7	6.0	34.3	0.35	[illegible]–114	9.3	0.93	1.66	4.16	5.52		
					[illegible]–125.5	15.5	0.91	1.49	3.52	5.01		
.59	11.75	2.7	19.0	0.31	[illegible]	17.0	1.30	3.42	9.57	13.01	176.25	26
7.19	10.26	9.1	49.7	0.4	47.1–1052	17.3	1.31(?)	3.08	8.36	11.44	198.02	
1.41	19.09	22.3	56.0	0.35							727.60	
5.2	19.7	2.2	47.0	0.21							105.34	
3.35	10.36	2.7	23.0	0.21							—	
											256.65	
5.12	17.73	5.9	70.[illegible]	.29							13.61	
2.7	3.24	2.0	47.6	—							—	38
											—	31
											108.20	
7.71	7.21	6.1	40.5	0.4							58.05	
0.6	12.9	2.8	62.5	0.3[illegible]							202.50	
5.4	22.5	5.7	53.8	0.[illegible]							—	
											—	
											—	
											—	41
											24	
6.1	7.5	3.2	100.0	0.[illegible]							—	
											—	
											—	
											—	

[illegible] 1.2570 [illegible]

											MIN	EMIN	BOTTOM MIN						% comb	
25	"	"	"	101,530N 99,675E	-90°	1330	240	71.6	34.5	404.3	133.4	11.3	[illegible]	1030-112.1 103.0-120.5	9.1 17.5	1.02 0.92	3.19 2.5	10.03 6.2	13.22 9.7	4.9 6.0
26	"	"	"	101,192N 99,944E	-90	2150	93.0	65.4	46.4	515.8	184	311.3	316.3	184.0-199.0	15.0	1.32	4.17	7.59	11.75	2.7
27	"	"	"	100,992N 99,918E	-90°	1820	71.0	59.8	45.7	514.2	147.1	357.1	343.3	147.1-165.4	19.3	1.33	3.07	7.19	10.26	9.1
28	1953	"	"	100,790N 99,382E	-90	165.0	55.0	59.1	45.8	506.0	134.2	401.5	3.15	134.5-144.5	10.0	2.37	6.19	11.91	19.09	22.3
29	"	"	"	100,788N 100,079E	-90°	1370	73.0	72.9	33.1	503.6	133	337.5	[illegible]	133.3-138.0 133.3-143.2	4.7 9.7	0.8 0.52	3.50 2.31	15.2 8.25	19.7 10.36	2.2 2.7
30	"	"	"	100,815N 99,993E	-90	570	5.0	34.8	33.0	425.7										
31	"	"	"	100,730N 100,130E	-90°	1510	92.0	41.3	29.2	519.7	113	412.2	390.7	113.5-123.0	14.5	2.50	2.58	9.12	17.73	5.9
32	"	"	"	101,232N 99,991E	-90°	217.0	100.0	72.8	37.9	507.3		325.5	324.3	181.3-[illegible]	4.2	Tr	0.54	2.7	3.24	2.0
33	"	"	"	101,717N 99,743E	-90°	1500	21.0	35.8	17.2	463.2										
34	"	"	"	100,731N 100,391E	-90°	1730	91.0	30.7	53.3	518.5										
35	"	"	"	101,075N 100,103E	-90°	2180	96.0	80.0	34.4	534.0	157	377.0	362.0	1570-1720	15.0	0.6	[illegible]	3.71	7.2	[illegible]
36	"	"	"	101,399N 99,995E	-90°	220.5	33.0	93.7	24.8	502.5	202	[illegible]	[illegible]	202.5-[illegible]	[illegible]	[illegible]	2.7	1.6	12.9	2.9
37	"	"	"	101,500N 99,383E	-90°	2060	53.0	97.9	29.1	504.2	171.0	333.0	324.0	171.0-180.0	9.0	1.6	3.1	15.4	22.5	2.7
38	"	"	"	102,160N 99,545E	-90°	114.0	20.0	72.1	23.3	441.0										
39	"	"	"	102,363N 99,550E	-90	176.0	22.0	124.1	19.2	477.2										
40	"	"	"	101,540N 99,425E	-90	160.0	22.0	87.0	36.9	419.3										
41	"	"	"	100,547N 99,351E	-90	187.0	17.0	101.4	40.3	496.0										
42	"	"	"	100,325N 99,540E	-90	92.0	16.0	20.9	72.5	509.0	64.8	444.2	441.0	64.8-68.0	3.2	0.8	1.4	6.1	7.5	3.2
43	"	"	"	99,945N 99,433E	-90	147.0	50.0	47.0	51.5	542.3										
44	"	"	"	99,037N 99,372E	-90	172.0	25.0	56.9	61.3	563.0										
45	"	"	"	99,251N 99,380E	-90	318	30.0	122.4	48.5	653.5										
46	1953-1954		"	103,123N 99,742E	-90	267.0	30.0	164.8	37.9	532.7										

OPTION

	MINERALIZED ZONE								SLUDGE							REMARKS	Grade x Thickness	
	Wt (Ft)	Oz Ag	% Pb	% Zn	Comb Metal	Footage Rec'd	Rec'y in Mine Zone %	Ra	Footage From	To	Wt (Feet)	Oz (Ag)	% Pb	% Zn	Comb Metal			
																126.0' drilled in 1953 141.0 " " 1954 Footwall rocks	—	46
																Drilled in footwall rocks	—	47
																Possible ore horizon 136.0' from collar	—	48
																" " " 326.0 " "	—	49
?0.0	5.	1.3	0.1	4.9	5.0	3.6	72.0									Massive pyrite 149.5' to 155.4' from collar	25	50
																" " 320.5' to 342.5 " "	—	51
																Possible ore horizon 110.0' from collar	—	52
																" " " 75.0 " "	—	53
134.5	4	0.4	1.4	4.3	5.7	3.2	71.7									Ls from 177.9 to 198.0 from collar	25^{65}	54
252.2	5	0.5	0.9	4.9	5.8	2.0	35.1									Ls from 200.0 to 226.5 " "	33^{06}	55
28.0	4	0.8	1.9	6.1	8.0	2.9	72.5									Massive pyrite 130.0 to 140.5 from collar	30^{12}	56
125.0	4.	1.2	3.4	3.3	6.7	2.2	50.0											
																Ls from 408.0' to 413.5' " "	—	57
																No massive pyrite No Ls.	—	58
																Ls. from 15.0-43.4 & 79.6-81.5 from collar Dolomite 122.6-125.2 from collar Massive Pyrite - 171.4-174.0	—	59
																	—	60
747	3	2.7	4.8	3.3	8.1	2.9	73.4									Ls. 344.5-355.0 from collar. Also some limy argillite sections in the hole.	63^{93}	61
3747	9'	1.5	3.5	2.4	6.9	6.6	68.0											
																Rods sanded at 503. Unable to deepen unless reamed with EX & AX casing. No Limestone.	—	62
																Hole drilled in fault zone	—	63
																Abundant stringery pyrite from 146.0-152.5. Rock brecciated from collar to 200.0 feet. Minor Po filled fractures at 200.0'	—	64
																	—	65

McMILLAN

D.D.H.	Year Drilled	Drilled By	Type of Core	Claim	Co-Ordinates	Bearing	Dip Angle	Hole Length	Over Burden	Shorts	Core Rec. (%)	Elev Collar	Depth Minz. Below Collar	Elev. Top Minz.	Elev. Bottom Minz.	Footage	W[illegible]
46	1953 1954	AS+R	EX	South Nahanni #2	103,103 N 99,740 E		-90°	267.0	30.0	161.4	51.8	542.7					
47	1954	"	"	South Nahanni #4	101,938 N 99,578 E		-90°	538.0	24.0	209.0	59.[illegible]	394.3					
48	1954	"	"	South Nahanni #3	102,333 N 100,511 E		-90°	352.0	26.0	179.3	45.[illegible]	427.7					
49	"	"	"	" "	101,898 N 100,525 E		-90°	352.0	156.0	112.9	42.[illegible]	521.1					
50	"	"	"	" #4	97,120 N 98,915 E		-90°	219.0	21.0	75.5	60.[illegible]	617.6	105.0	512.6	507.6	105.0-110.0	5.0
51	"	"	"	" #49	97,110 N 99,105 E		-90°	407.0	134.0	12[illegible].9	53.[illegible]	730.9					
52	"	"	"	" 4	102,112 N 100,035 E		-90°	201.0	14.0	123.3	34.[illegible]	379.1					
53	"	"	"	" 4	101,909 N 99,915 E		-90°	168.0	30.0	82.1	40.[illegible]	394.6					
54	"	"	"	" 5	100,223 N 100,422 E		-90°	228.0	71.0	8[illegible].4	48.1	513.1	190.0	328.1	323.6	190.0-194.5	4.5
55	"	"	"	" 6	99,993 N 100,577 E		-90°	252.0	71.0	73.5	56.[illegible]	555.0	226.5	328.5	322.8	226.5-232.2	5.7
56	"	"	"	" 49	97,311 N 99,950 E		-90°	243.0	21.0	74.1	66.6	612.0	24.0 120.5	589.0 491.5	584.0 487.0	24.0-28.0 120.5-125.0	4.0 4.5
57	"	"	"	" 5	100,001 N 101,180 E		-90°	458.0	93.0	132.8	64.2	616.0					
58	"	"	"	" 49	97336 N 98543 E		-90°	170.0	49.0	82.0	32.2	629.0					
59	"	"	"	" 49	97,908 N 98,938 E		-90°	243.0	15.0	83.4	60.[illegible]	617					
60	"	"	"	" 5	100,697 N 100,694 E		-90°	351.0	176.0	101.1	42.2	603.					
61	"	"	"	" 7	98,666 N 99,363 E		-90°	396.0	35.0	122.5	66.[illegible]	626.0				371.0-374.7 365.0-374.7	3.7 9.7
62	"	"	"	SN-26	101353 N 108342 E		-90	503.0	9.0	162.3	67.1	794.0					
63	"	"	"	SN 29	100495 N 109075 E		-90.0	356.0	14.0	10[illegible].9	69.5	895.0					
[illegible]	"	"	"	M-1	93373 N 123151 E		-90.0	400.0	36.0	[illegible]	72.[illegible]	334.[illegible]					
[illegible]5	"	"	"	SN-62	100527 N 111065 E		-90.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					

MCMILLAN

SUMMARY OF 1956 DIAMOND DRILLING

Hole	Cordinates	Claim	Length Recom. Max.	Length Actual	Over-burden	Elev. Coll.	% Core Recovery	Footage	Length	Assays Ag.	Assays Pb.	Assays Zn	% Recovery	Grade x Thickness	REMARKS
74 74	93950N, 99517E	M-25	350'	299.0	25.0	788'	64.3	25.0- 28.6	3.6'	Tr	Tr	Tr	50.0		E.M. explained by massive pyrite (25-73) and minor pyrite to 283';
								38.0- 43.0	5.0	Tr	Tr	Tr	40.0		
								43.0-48.0	5.0	0.30	Tr	Tr	20.0		
								48.0- 53.0	5.0	Tr	0.1	Tr	24.0		
								53.0- 58.0	5.0	3.30	Tr	Tr	30.0		
								58.0- 63.0	5.0	0.60	Tr	2.9	28.0		
								63.0- 68.0	5.0	0.50	7.1	Tr	52.0		
								68.0- 73.0	5.0	0.50	3.2	Tr	46.0		
								73.0- 78.0	5.0	1.80	2.5	0.8	38.0		
								78.0- 83.0	5.0	0.20	Tr	0.1	70.0		
								83.0- 88.0	5.0	0.20	Tr	Tr	34.0		
								53.0- 88.0	35.0	[illegible]91	1.82	0.5	42.6	81[20] 74	
75 75	93,324N, 99890E	M-23	400	380.0	13.0	837	46.8	161.0-167.0	6.0	0.20	0.1	0.6	63.3	4[2] 75	E.M. explained by scattered minor pyrite and scattered heavier pyrite (284-351)
76 76	94,348N, 99164E	M-20	300	322.0	50.0	750	49.7	50.0- 54.5	4.5	3.30	5.6	0.5	77.8		E.M. explained by scattered bands etc., and Pb Zn (50-63)
								54.5- 60.0	5.5	1.40	2.7	Tr	27,2		
								60.0- 63.0	3.0	1.10	2.3	Tr	26.7		
								50.0- 63.0	13.0	1.99	3.62	0.18	44.6	49[49] 76	
77 77	94,348N; 100,040E	M-18	300	309.0	79.0	779	29.4	181.0-189.0	8.0	0.30	5.3	Tr	33.8	40[40] 77	E.M. explained by scattered minor pyrite and local Pb Zn (181-[illegible]).
								215.0-220.0	5.0	0.04	Tr	Tr	38.0		
78 78	94779N; 100394E	M-18	500	213.0	213.0	823.0								— 78	Abandoned due to deep over[illegible]. Drilled twice, first to 15[illegible] later to 213'.
79 79	95167N; 99507E	M-20	400	163.0	163.0	821								— 79	Abandoned due to deep overbur[illegible].
80 80	95375N; 98890E	M-20	300	318.0	90.0	748	45.8	295.0-298.0	3.0	0.4	1.0	Tr	80.0	3 80	E.M. explained by minor scattered pyrite.

McMILLAN

SUMMARY OF 1956 DIAMOND DRILLING

Sheet No. 2

Hole	Cordinates	Claim	Length Recom. Max.	Length Actual	Over-burden	Elev. Coll.	% Core Recovery	Footage	Length	Assays Ag.	Assays Pb.	Assays Zn.	Assays % Recov.	Assays Cu	Remarks
															— (81)
81	95955N;98942E	M-19	300	286.0	108.0	725	42.0								No pyrite concentration.
82	96540N; 98814E	M-19	300	319.0	75.0	650	49.8	171.0-173.0	2.0	0.1	0.6	Tr	26.7		E.M. explained by mineralization
								190.5-191.5	1.0	5.5	0.4	Tr	80.0	0.45	and pyritization
								191.5-195.0	3.5	1.3	Tr	Tr	68.5	0.20	
								195.0-200.5	5.5	3.8	4.6	Tr	65.2	Tr	
								200.5-201.5	1.0	11.3	Tr	0.9	90.0	15.2	
								201.5-210.5	9.0	17.1	0.9	Tr	73.0	2.1	
								(190.5-210.5)	20	9.8	1.7	.05	71.3	1.8)	34" (82)
83	93955N; 98050E	M-22	300	244.0	44.0	750	34.6								E.M. explained by pyritization (140.0 - 244.0')
															— (83)
		TOTAL		3007.0'											

1968

Grand Total · 22,974'

— (84)
— (85)
— (86)
— (87)
— (88)

84 } - Pyrite only
85 }

86 - 0.01 Zn , 0.01 oz Ag

87 }
88 } - Failed to reach bed rock
~~89~~ }

All holes vertical
EX core.

7.70 (89)

89 - 35' : .22 % Pb , 0.28 Ag

100.88 (90)

90 - 16' : 6.43 Pb , 0.40 oz Ag (111' and 127')

— (91)

91 - less than 0.05 oz. Ag

— (92)

92 - 320 - 360' ; 420 - 490' scattered sulphides - assays (3) sub ore grade. Total - 3404 feet

— (93)

93 - failed to reach bedrock

OPTION (1955)

	MINERALIZED ZONE								SLUDGE							REMARKS
	WD. (FEET)	OZ AG	% Pb	% Zn	% Cu	COMB. METAL	FOOTAGE REC'D	REC'Y IN MINZ. ZONE	RATIO Ag/Pb	FOOTAGE FROM	TO	WD. (FEET)	OZ (AG)	% Pb	% Zn	COMB. METAL	
66																	Hole cemented twice.
67																	Zn from 75.0 – 147.5 Some minor zinc pyrite in hole Possible fault between 263.0 – 268.6
68																	Massive pyrite 76.0 – 96.0; 231.5 – 282.0; 290.0 – 301.
69	5.0	8.14	1.3	0.5	2.1												No pyritization. 98°
70																	Massive pyrite 84.0 – 110.0 No other sulphides seen
71																	Massive pyrite 122.5 – 124.5; 143.3 – 152.0
72																	No pyritization
73																	Massive pyrite 209.0 – 221.0 Massive to heavy pyrite 288.5 – 323.0'

Mc MILLAN

D.D.H.	Year Drilled	Drilled By	Type of Core	Claim	Co-ordinates	Bearing	Dip Angle	Hole Length	Over Burden	Shorts (Ft)	Core Rec. (%)	Elev. Collar	Depth of Minz. Below Collar	Elev. Top Minz.	Elev. Bottom Minz.	MIN[illegible] Footage From – To	Wd. (Feet)	[illegible]
66	1955	ASR	EX	South Nahanni 43	97,107N 99,342E	—	-90°	531.0	152.0	174.4	54	732.8						
67	1955	"	"	M-23	93710N 100173E	—	-90°	303.0	22.0	142.7	48.	736.0						
68	"	"	"	M-25	93748N 99748E	—	-90	405.0	22.0	135.1	54.	799.0				103.0 – 108.0	5.0	E
69	"	"	"	M-25	93732N 99410E	—	-90°	325.0	32.0	133.?	54	810.0						
[illegible]	1955	"	EX	M-25	93737N 99100E	—	-90	303.0	45.0	106.2	53.	[illegible]						
71	"	"	"	M-20	94737N 99354E	—	-90°	253.0	45.0	115.9	42.	752.0						
[illegible]	"	"	"	M-20	94752N 99350E	—	-90°	301.0	67.0	102.2	56	75?.0						
73	"	"	"	M-20	94750N 99725E	—	-90°	399.0	117.0	121.2	57.	793.0						

QUARTZ LAKE CORE - ASARCO - BRIEF LOGS, BOX 78769-78857

hole #		
1	0-51.5	light to dark grey siltstone minor ls minor pyrite cpy + galena (galena in veinlets)
	51.5-114.5	light grey siltstone minor med. gr. sst minor pyrite, + cpy.
2	0-55.4	light grey siltstone minor pyrite, + galena assoc c ~~=~~ calcite in veinlets.
3	0-35	light grey limestone
	35-38	grey siltstone
	38-40	f-c. gr. galena
	40-42	grey siltstone, minor sulphides
	42-43	pyrite (6") + galena (6")
	43-48	greyish green lam. calc siltstone.
	48-96	greyish green lam siltstone, a few sections weakly calcareous. minor py-gal-sp? at 64' and 69'
	96-118	siltstone as above, minor sulphs in veinlets - gal, chalco, + cpy
	118-143	siltstone, as above. also in box 4, hole 3 is a section marked 73.4' to 81' of siltstone + f.g. sst.
7	109-130	light grey to buff finely lam siltst.
8	37-38	grey ls
	38-81	med to f.g. sst with dissem to massive galena
	81-112	as above, with galena + lesser py. sph + cpy
	112-121	finely laminated grey siltstone, minor f.g pyrite as lenses? + gal + sph in veins.
	121-200	finely lam grey siltstone, several limestone beds ~6" thick, minor sulphides - dissem.

HOLE #		
9	47-75	siltstone, fine grained sandstone - weakly calcareous, minor grey sandstone
	75-88	siltstone, fine grained dissim sulphides - py, gal, sph
	88-95	massive + almost massive gal, sph, ? py.
	95-109	siltstone + f.g. sst with dissem sph, gal ? py.
10	69-113	light to dark grey + buff finely lam. siltstone, minor qtz veining
	113-115	fine gr. lam py sph, gal.
	115-225	light grey siltstone + fine gr. sandst, minor quartz veining.
11	65-~~1~~ -199	light to dk grey and buff laminated siltstone + fine grained sandstone, minor qtz veining.
12	37-48	light grey limestone
	48-60	buff to grey finely lam. calc siltstone
	60-84	light grey limestone
	84-100	light grey limestone with autobreccia/intra-formational breccia - lst clasts, calc matrix
	100-104	light grey f.gr. lst
	104-107	light grey to buff finely lam. siltstone
	107-108	light grey f.g. lst
	108-114	light grey to buff finely lam. siltstone
	114-115	light grey f.g. lst
	115-124	light grey to ~~f~~ buff finely lam siltstone
	124-125	med gr grey calc sst
	125-136	light grey to buff finely lam siltstone

Hole #

13 30-38 light grey lst, minor calcite veining

38-70 light grey lst. intermittent autobreccia/intraformil brec.

70-74 light grey lst

74-75 light buff finely lam. siltstone

75-96 light grey limestone - fine grained - appears detrital - laminated.

96-129 light grey to buff finely lam. siltstone.

14 25-49 light to dark grey & brown lam siltstone

49-57 fine to med gr quartzite

57-126 light to dark grey and buff siltstone, minor f.gr. sandstone interbeds.

126-? siltstone sandstone, minor py-sph interbeds.

15 43-53 light grey limestone

53-~~112~~ light grey to buff finely lam. siltstone and

-111 fine grained sst. non calc.

111-116 med gr light grey subgreywacke

116-150 light grey finely lam. siltstone

150-215 light to dark grey finely lam siltstone.

16 78-136 light to med grey and buff finely lam siltstone, & minor fine grained sandstone

-note footages.

103-103.5 coarse gr. sandstone

103.5-122 pink to light grey finely lam siltstone

122-133 pale greenish grey mudstone

note footages.

155-157 light grey limestone

157-162 brown siltstone, minor sulphs

162-174 light grey limestone

174-178 grey siltstone

Hole #		
16	178-181	buff siltstone & fine gr. sandstone,
	181-199	light grey-green siltstone, finely lam, non-calc
17	37-68	light grey to pink fine grained non-calc sst. box # 2 missing, some core from box 3 gone
	111-118	light grey to pink siltstone with pink fine grained sandstone. Minor gal, py, & sph from 114 to 118
	118-167	finely lam. light grey siltstone.
19	10-60	light grey finely lam. siltstone to f.g. sandstone, minor mudstone/mud seams.
	60-63	light grey limestone
	63-68	light grey siltstone
	68-69	light grey limestone
	70-74	light grey siltstone
	74-79	light grey limestone, minor siltstone at 75'
	79-86	brown to dark grey calc siltstone, ~~minor~~ dissem to massive py, gal, & sph
	86-150	light grey siltstone, minor calcareous patches. sulphides at 97' and 103'
20	104-126.5	grey finely laminated siltstone
	126.5-177	dissem. to massive sulphides - py, sph, gal, in siltstone.
	177-197	light to dark grey siltstone & fine gr. sandstone
21	20-80	light grey siltstone to fine gr. sst, minor mud seams. non calc,
	80-109	dark grey to dark brown siltstone to fine grained sandstone
	109-125	as above, but mud seams form most of core.

HOLE #		
22	59-152	light grey to buff siltstone to fine gr sandstone, laminated
	152-191	grey to brown laminated siltstone and fine grained sandstone.
23	69-108	grey and pink siltstone
	108-164	light grey and light pink siltstone & fine grained sandstone, laminated
	164-180	fine grained grey sandstone dissem. pyrite
	180-218	fine grained sandstone & siltstone, a few mud seams.
24	56-65	pebbles?
	65-152	light grey to pink finely lam siltstone to fine grained sandstone.
	152-168	grey siltstone, py. gal & sph. dissem to massive. Minor vein quartz.
	168-174	grey siltstone, minor dissem pyrite
	174-175	massive py. sph, gal.
	175-179	light grey siltstone, minor dissem pyrite
	179-188	mud seam
	188-209	fine grained sandstone, minor dissem pyrite.
25	24-133	grey to pink siltstone, badly decomposed, with mud seams. Dissem. py & gal. at 101 to 104
26	74-180	light grey to pink finely laminated siltstone
	180-184	dark brown siltstone
	184-188	light grey siltstone
	188-190	dissem to massive gal, sph and py
	190-215	light grey siltstone and fine grained sandstone, mud seam at 208'.

HOLE #		
27	70-144	light grey siltstone and fine grained sandstone, laminated in part
	144-146	dark brown siltstone dissem to abdt pyrite + sph
	146-155	dark grey siltstone, dissem to abdt py, galena, and sph.
	155-156	~~massive sulphs py sph, gal~~ grey siltstone
	156-158	massive sulphs - py, sph, gal
	158-163	grey siltstone, minor dissem py
	163-165	massive sulphs py, sph, gal
	165-171	mud seam?
	171-182	light grey siltstone
28	99-104	brown siltstone, dissem sulphides
	104-115	massive sulphs - py sph + gal
	115-118	grey siltstone, dissem. sulphides
	118-127	massive sulphs - sph, gal + py.
	129-135	dark grey siltstone, minor dissem sulphs.
	135-138	massive sph, minor py + gal
	138-141	dark grey siltstone dissem py.
	141-142	massive sphalerite
	142-145	grey siltstone
	145-155	mud seam
	155-165	light grey laminated mudstone
29	78-80	pebbles. "basal till"
	80-122	grey finely lam. siltstone
	122-127	Coarse gr- grit stone to congl. - dark brown
	127-132	brown siltstone, minor dissem sulphs
	132-134	massive sulphs - sph, py, gal.
	134-187	grey siltstone fine grained sandstone, minor mudstone. Massive sph 137'-138'

Hole #		
31	99-114	light grey siltstone
	114-118	massive sulphs - galena, sph, py.
	118-125	dissem to massive sulphs gal & sph & py in grey siltstone
	125-132	mud seam
	132-148	light grey mudstone to siltstone, minor vein quartz in siltstone.
32	100-204	light grey siltstone to fine grained sandstone mudseams at 173', 182', 192', 196' 186' - note says 1' ore.
	204-214	grey med gr. sandstone
34	~~92~~-173	light grey to buff laminated siltstone
35	102-157	maroon, pink, and grey fine grained sandstone and siltstone, laminated.
	152-164	dissem to massive sulphides - sph, py, gal
	164-171	dark brown siltstone, dissem py.
	171-172	massive sphalerite
	172-213	light grey sandstone/fine grained sand siltstone
	213-218	mud seam
36	91-210	light grey siltstone to fine grained sandstone. laminated. - Core from 170-220 dumped - not in order. "High grade ore" tag in box, but no core with sulphides except for a few small massive sph - py. sections.
37	69-174	pink to grey fine grained sandstone and lam. siltstone.
	174-178	dissem. to massive sulphides - sph, gal, & py. in siltstone
	178-208	grey sandstone (fine grained) and siltstone

H.S.BOSTOCK CORE LIBRARY

WHITEHORSE, YUKON TERRITORY

NORTHERN NATURAL RESOURCES & ENV. BRANCH
INDIAN & NORTHERN AFFAIRS

27

SER. NO.	LIBRARY LOC.	PROPERTY	DRILLED FOR	YR.	HOLE NO.	BOX NO.	INTERVAL FROM	INTERVAL TO	N.T.S.	CORE	REMARKS
78745	40	QUARTZ LAKE	NORANDA	~~75~~	94	1	55	76	95D	AQ	these holes are repres-
78746		(MacMILLAN)				2	76	98	5,12		entative holes from
78747						3	98	122			a larger diamond
78748						4	122	147			drilling program.
78749						5	147	170			Other core stored
78750						6	170'	193'			at property.
78751						7	193'	215'			See also Asarco -
78752						8	215'	238'			Quartz Lake.
78753						9	238'	261'			
78754						10	261'	284			[illegible] The Box numbers
78755						11	284	307'			which are crossed off
78756						12	307'	332'			are no longer available
78757						13	332'	356'			for use.
78758						14	356'	381'			
78759					115	1	200'	220'			
78760						2	220'	247'			
78761						3	247'	270'			
78762						4	270'	289'			
78763						5	289'	311'			
78764						6	311'	333'			
78765						7	333	355'			
78766						8	355'	377			
78767						9	377	399			
78768						10	399'	413'			
[illegible]						[illegible]					

37

SER. NO.	LIBRARY LOC.	PROPERTY	DRILLED FOR	YR.	HOLE NO.	BOX NO.	INTERVAL FROM	INTERVAL TO	N.T.S.	CORE	REMARKS
78769	40	QUARTZ LAKE	ASARCO EXPLN	'53-	1	1	0	51.5	95D	XRAY	
78770	NEW	(MACMILLAN)	Co. OF CANADA	'55		2	51.5	114.3	5,12		
78771	WB.				2	1	0	55.0			
78772					3	1	0	49.8			
78773						2	49.8	93.7			
78774						3	93.7	118.5			
78775						4	118.5	142.5			also in box 78775 is a
78776					7	3	109	130			section marked 73.4'-81'
78777					8	1	37	81			
78778						2	31	121			
78779						3	121	200			
78780					9	1	47	109			
78781					10	1	69	121			
78782						2	121	225			
78783					11	1	65	138			
78784						2	138	199			
78785					12	1	37	95			
78786						2	95	136			
78787					13	1	30	91			
78788						2	91	129			
78789					14	1	25	110			
78790						2	110	?			
78791					15	1	43	?		EX	
78792						2	53	92			
78793						3	92	124			

H.S. BOSTOCK CORE LIBRARY

WHITEHORSE, YUKON TERRITORY

NORTHERN NATURAL RESOURCES & ENV. BRANCH
INDIAN & NORTHERN AFFAIRS

SER. NO.	LIBRARY LOC.	PROPERTY	DRILLED FOR	YR.	HOLE NO.	BOX NO.	INTERVAL FROM	INTERVAL TO	N.T.S.	CORE	REMARKS
78794	40	QUARTZ LAKE	ASARCO EXPLN.	53	15	4	124	154	95 D	EX	
78795	NEW	(MACMILLAN)	Co. OF CANADA	55		5	154	180	5,12		
78796	LIB.					6	180	215			
78797					16	1	78	112			
78798						2	112	136			
78799						3	103	133			Note footages!
78800						4	155	181			
78801						5	181	199			
78802					17	1	37	68			Box # 2 missing
78803						3	93	119			Core missing to 111'
78804						4	119	160			
78805						5	160	167			
78806					19	1	10	59			
78807						2	59	89			
78808						3	89	128			
78809						4	128	150			
78810					20	2	104	160			Box # 1 missing
78811						3	160	197			
78812					21	1	20	65			
78813						2	65	96			
78814						3	96	125			
78815					22	1	59	136			
78816						2	136	166			
78817						3	166	189			footage unsure, this box
78818					23	1	69	123			

H.S. BOSTOCK CORE LIBRARY

WHITEHORSE, YUKON TERRITORY

NORTHERN NATURAL RESOURCES & ENV. BRANCH
INDIAN & NORTHERN AFFAIRS

SER. NO.	LIBRARY LOC.	PROPERTY	DRILLED FOR	YR.	HOLE NO.	BOX NO.	INTERVAL FROM	INTERVAL TO	N.T.S.	CORE	REMARKS
78819	40	QUARTZ LAKE	ASARCO EXPLN	53-	23	2	123	153	95 D	Ex	
78820	NEW	(MACMILLAN)	CO. OF CANADA	55	—	3	153	218	5,12		
78821	LIB.				24	1	56	101			
78822						2	101	129			
78823						3	129	166			
78824						4	166	209			
78825					25	1	24	73			
78826						2	73	133			
78827					26	1	74	122			
78828						2	122	175			
78829						3	175	215			
78830					27	1	70	117			
78831						2	117	148			
78832						3	148	182			
78833					28	2	99	139			Box 1 missing
78834						3	139	165			
78835					29	1	78	126			
78836						2	126	187			
78837					31	1 ~~2~~	97	149			~~[illegible]~~
78838					32	1	100	154			
78839						2	154	203			
78840						3	203	214			
78841					34	1	92	125			
78842						2	125	163			
78843						3	163	173			

SER. NO.	LIBRARY LOC.	PROPERTY	DRILLED FOR	YR.	HOLE NO.	BOX NO.	INTERVAL FROM	INTERVAL TO	N.T.S.	CORE	REMARKS
78844	40	QUARTZ LAKE	ASARCO EXPL'N	53-	35	# 1	102	156	95 D	EX	
78845		(MACMILLAN)	CO. OF CANADA	55		2	156	210	5,12		
78846						3	210	218			
78847					36	1	91	170			
78848							170	220			Core dumped - not in order
78849					37	1	69	132			
78850						2	132	200			
78851						3	200	208			
78852					55	1					footages not legible
78853						4	175	205			boxes 2 & 3 missing
78854						5	205	225			
78855						6	225	252			
78856					?		125	159			unknown hole #'s.
78857					?		?	?			