DD-21

77828

DIAMOND DRILL RECORD

PROPERTY PEERLESS, MONTANA MTN. 109 DRIFT EAST **HOLE NO.** 1

SHEET NUMBER 1 | SECTION FROM A 500 ~~TO~~ ON REF. LINE "A" | STARTED 9th MAY 1968

LATITUDE ~~10903 N~~ 10903.12 | DATUM 500 | COMPLETED 11th MAY 1968

DEPARTURE ~~9009 E~~ 9010.65 | BEARING ~~338° 30'~~ N21°15'W | ULTIMATE DEPTH 140'

ELEVATION ~~524~~ 525.05 NOT SURVEYED | DIP 0° FLAT | PROPOSED DEPTH 125'

RECOVERY OF CORE 97-98%.

09113

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAY VALUES			
						Au	Ag		
0 - 2	WHITE QTZ-RICH GRANITE, MINOR CHLORITE								
	MIN: NIL - 1% : PY, ASP, CPY?								
2	DARK QTZ STRINGER ¼" AT 45°. MIN 10%								
	¾ CPY, ¼ BORNITE + PY + ASP + SPHAL	3502	1'9"	2'1"	3"	.01	1.13		
2 - 4'6"	QTZ-RICH WHITE GRANITE + HAIRLINE CHLOR-FILLED								
	FRACTURES AT 40°. SECONDARY SILICA								
	MIN ± 1% DISSEM PY + ASP.								
4' 6"	1/10" DARK QTZ STRINGER 50% PY								
4'6" - 5'3"	COUNTRY ROCK GRANITE AS ABOVE								
5' 3"	½" WHITE QUARTZ. 5% PY								
5'3" - 9'0"	QTZ-RICH SILICIFIED & CHLORITISED GRANITE								
	1% DISSEM PY & RARE ASP, CPY								
9'0" - 12' 2"	QTZ-RICH SILICIF. & CHLOR. GRANITE								
	NIL - 1% DISSEM PY & ASP (MINOR)								

DRILLED BY NO SLUDGE SAMPLES FROM HOLE #1 SIGNED J.M.

DD-21

DIAMOND DRILL RECORD

PROPERTY PEERLESS, 109 DRIFT EAST **HOLE NO.** 1

SHEET NUMBER 2 SECTION FROM A500 N ON REF LINE "A" STARTED

LATITUDE DATUM COMPLETED

DEPARTURE BEARING 340° APPROX ULTIMATE DEPTH 140'

ELEVATION DIP 0° PROPOSED DEPTH F

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAY VALUES			
12' 2" - 12' 10"	QTZ - RICH SILIC & CHLOR GRANITE					AU	AG		
	3% DISEM PY IN QTZ STRINGERS. SOME ASP	3503	12'2"	12'10"	8"	.005	0.22		
12' 10" - 15' 0"	COUNTRY ROCK GRANITE AS ABOVE								
	NIL - TR. DISSEM PY								
15'0" - 15'8"	DARK, FINE - MED.M GRAINED "FELSITIC" MATERIAL								
	MIN: TR.	3504	15'0	15'8	8"	.005	.22		
15'8" - 17'0"	QTZ - RICH, SILIC & CHLOR, GRANITE. NIL MIN								
17'0" - 22'2"	" " " " TRACE OF								
	DISSEM PY & ASP								
22'2" - 23'3"	QTZ - RICH SILICIFIED & CHLORITISED GRANITE								
	WITH QTZ STRINGERS CONTAINING PY & ASP	3505	22'2"	23'3"	13"	TR	.26		
	ALSO DISSEM PY & ASP. TOTAL MIN = 3%								
23'3" - 24'2"	GRANITE AS ABOVE. TRACE OF DISSEM PY & ASP								
24'2" - 25'4"	DISSEM PY, ASP + QTZ STRINGER WITH PY, ASP	3506	24'2"	25'4"	14"	TR	.24		
	IN GRANITE AS ABOVE.								

DRILLED BY CARON SIGNED John McMullin.

DD-21

DIAMOND DRILL RECORD

PROPERTY PEERLESS 109 DR. E. **HOLE NO.** 1

SHEET NUMBER 3 SECTION FROM A500 STARTED

LATITUDE DATUM (ARCTIC) COMPLETED

DEPARTURE BEARING 340° APPROX ULTIMATE DEPTH 140'

ELEVATION DIP 0° PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAY VALUES			
25'4" - 26'7"	SILICEOUS, CHLORITISED GREENISH WHITE GRANITE - HAIRLINES OF CHLORITE ≯1% ASP.								
26'7"	½" QTZ STRINGER, GRADATIONAL WITH GRANITE . 45° 20% PY								
26'7" - 28'	GREEN-GREY SILICIFIED GRANITE WITH CHLOR. ALTERAT'N ≯1% DISSEM PY, ASP.								
28'0" - 28'4"	DARK GREY QUARTZ VEINLET ASSOC. WITH CHLOR. ALTERATION . ¾" WIDE . 20 - 45° 5 - 10% FINE PY & ASP	3507	27'11"	28'5"	4"	.005	0.14		
28'4" - 30'2"	GRANITE AS BEFORE WITH OCCASIONAL HAIRLINES of WHITE QTZ. & PY WITH CHLOR. AT 40°. MIN ≯1%								
30'2" - 31'7"	2-3% PY + SUBSID ASP & V. MINOR CPY DISSEM IN DARKER THAN USUAL GRANITE	Not rec'd 3508	30'2"	31'7"	17"	TR	0.20		
31'7" - 32'2"	≯1% PY, ASP DISSEM IN GRANITE.								

DRILLED BY CARON. SIGNED John McMullin.

DD-21

DIAMOND DRILL RECORD

PROPERTY PEERLESS . 109 DR. E. **HOLE NO.** 1

SHEET NUMBER 4 SECTION FROM A 500 ~~E~~ STARTED

LATITUDE DATUM COMPLETED

DEPARTURE BEARING 340° APPROX ULTIMATE DEPTH 140'

ELEVATION DIP 0° PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAY VALUES			
32'2"-33'6"	2% FINE GRAINED DISSEM & SMALL BLEBS OF PY (& SUBSID ASP) IN GRANITE C.R. MORE HEAVILY SILICIFIED THAN USUAL								
33'6"-34'8"	DISSEM. CRYSTS & STRINGERS OF PY, ASP IN GRANITE WITH WHITE-COLOURLESS DRUSY QTZ STRINGERS WITH V. FINE ARGENTITE? FREIBERGITE?? 5-10% TOTAL MIN. CROSSES CORE AT 15°	No 1 vein split 3509	33'6"	34'8"	8" 1.3'	.04	1.22		
34'8"-37'8"	SILICEOUS GRANITE. VARIABLE CHLOR. MIN: TR.	No1	Vein	MAIN	PART				
37'8"-38'8"	HIGHLY SILICEOUS DARK GREY ZONE - NO SHARP CONTACT. 30-40% PY, ASP, ARGENTITE? & MINOR CPY.	3510	37'8"	38'8"	12"	.005	3.04		
38'8"-49'5"	VARIABLY SILICIFIED & CHLORITISED GRANITE. OCC ¼" QTZ STRINGERS WITH 25% PY AT 40-45°								
49'5"-50'3"	1½" 15° GREY-WHITE QTZ VEIN WITH 30% ASP, ARGENTITE? . DISSEM ASP IN CR. TOTAL MIN = 10%	3511	49'5" Part of #1???	50'3"	6"	.01	.97		

DRILLED BY CARON. SIGNED John McMullen

DD-21

DIAMOND DRILL RECORD

PROPERTY PEERLESS 109 DR. E. **HOLE NO.** 1

SHEET NUMBER 5. SECTION FROM A 500 ~~TO~~ STARTED

LATITUDE DATUM COMPLETED

DEPARTURE BEARING 340° ULTIMATE DEPTH 140

ELEVATION DIP 0° PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAY VALUES			
50'3" - 52'3"	BLEBS OF PY IN WELL SILICIFIED, V. LIGHTLY CHLORIT.° GRANITE. 2% MIN. PY + SUBSID ASP.		This highly altered should be split!						
52'3" - 72'	VARIABLY SILIC. & CHLOR. GRANITE. SEVERAL WHITE QUARTZ STRINGERS AT 45°-85°. NEGLIGIBLE MIN.								
72 - 78	GRANITE - CHLORIT.° BUT LESS SILICIFIED - FRESHER & TRUER GRANITE - INTRODUCT.N OF PINK FELSPAR + BLACK BIOTITE GIVES DISTINCTIVE APPEARANCE		Fresh granit.						
78 - 83	WHITE SILICEOUS GRANITE AS PREVIOUSLY - LITTLE CHLORITISATION. ½" WHITE QTZ STRINGERS AT 79' & 82' at 40-50° ≯1% PY & SUBSID ASP MAINLY IN QTZ.								
83 - 86	½" & ¾" QTZ STRINGERS AT 84'3" & 85' AT 45°. NEGLIG. MIN.		Granit more altered minor py.						
~~86' - 87'6"~~	~~DISSEM ASP. SUBSID PY. ESP IN SEMIDRUSY SEMICHERTY ¼"-1" QTZ STRINGERS AT 88', 88'5" + 89'9" - 90'6" AT 50°-90°. CONTAIN ≯25% MIN - MAINLY ASP TOTAL MIN: 1%~~	~~3501~~	~~87'6"~~	~~97'0"~~					

DRILLED BY CARON

SIGNED John McMullin.

DD-21

DIAMOND DRILL RECORD

PROPERTY PEERLESS 109 DR. EAST. **HOLE NO.** 1

SHEET NUMBER 6 SECTION FROM A500 ~~B00~~ STARTED

LATITUDE DATUM COMPLETED

DEPARTURE BEARING 340 ULTIMATE DEPTH 140

ELEVATION DIP 0° PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAY VALUES
86 – 87'6"	QTZ STRINGERS IN WHITE SILICEOUS GRANITE - SOME QTZ CHERTY. AT 45°	3501	86'0"	87'6"	13"	0.20 AU · OR Antimony 0.10 AG TR Bismuth
	86'9" – 87'6" NEARLY MASSIVE SULPHIDES V. DARK GREY. V.FINE. 1/3 PY, 2/3 ASP + ARGENTITE 40% TOTAL MIN.					Good looking vein More splitting required 86.5' - 87.6'
87'6" – 97'0"	DISEM ASP, SUBSID. PY ESP IN SEMI DRUSY SEMI CHERTY ¼" – 1" QTZ STRINGERS AT 88', 88'5", 89'-9" — 90'6" AT 50°–90° CONTAIN ≯25% MIN – MAINLY ASP. TOTAL MIN = 1%					
97'0" – 103'0"	MOD CHLOR, SILICEOUS GREEN-WHITE GRANITE					
103 – 106	FRESH PINK-FELSPAR-BEARING + MICA-BEARING GRANITE					
106 – 114	MOD CHLOR + SILIC. GREEN GREY GRANITE - A FEW DIFFUSE QTZ. STRINGERS					
114 – 115'6"	LIGHTLY CHLOR. MOD SILICEOUS YELLOWISH GRANITE					
115'6"	½" 40° QTZ STRINGER, 25% PY BLEBS					

DRILLED BY CARON. SIGNED John McMullin.

DD-21

DIAMOND DRILL RECORD

PROPERTY PEERLESS 109 DR. E. **HOLE NO.** 1

SHEET NUMBER 7 SECTION FROM A500 ~~75~~ STARTED

LATITUDE DATUM COMPLETED

DEPARTURE BEARING 340° ULTIMATE DEPTH 140

ELEVATION DIP 0° PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAY VALUES			
115'6" - 120	LIGHT CHLOR & SILIC PALE GREEN GREY GRANITE								
120 - 124'8"	" " " " "								
	OCC. Py. BEARING QTZ STRINGERS ± 1% Py TOTAL.								
124'8" - 125'	GREY-WHITE QTZ CONTAINING BLEBS OF Py & BLACK SPHAL AT 50°. 15% MIN. ⅔Py, ⅓SPHAL.	3512	124'8"	125'	3"	.005	0.64		
125 - 130	MOD CHLOR; MOD-WELL SILIC. PALE GREEN GREY GRANITE. SMALL BLEBS OF Py — TR.								
130 — 135	FRESH PINK-FELS-BEARING GRANITE LOW CHLOR, MOD SILIC.								
135 — 140	WELL SILICIFIED, LIGHTLY CHLORITISED YELLOWISH GRANITE ± 1% Py. AT 137', 3" WHITE QUARTZ VEIN WITH 30% Py.								
END.									

DRILLED BY CARON.

SIGNED John M. McMullin

DD-21

NO SLUDGE 0–35.

DIAMOND DRILL RECORD

PROPERTY PEERLESS, MONTANA MTN. 109 DRIFT EAST HOLE NO. 2

SHEET NUMBER 1 | SECTION FROM A 500 ~~TO~~ REF LINE "A" | STARTED 11th MAY 1968

LATITUDE ~~10903 N~~ 10902.11 | DATUM 500. | COMPLETED 12 MAY 1968

DEPARTURE ~~9009 E.~~ 9010.25 | BEARING ~~360°~~ N 22°16' W | ULTIMATE DEPTH 105

ELEVATION - 528.07 NO 90.5 | DIP + 30°19' | PROPOSED DEPTH 75

0911B

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAY VALUES Au	Ag	Au.	Ag.
								SLUDGES	
0 – 4	QTZ-RICH, MOD SILICIFIED, MOD CHLORITISED GREY-GREEN GRANITE. MIN NEGLIGIBLE. (PY)							SM01 35–40	.005 .40
								SM02 40–50	TR .06
4 – 13	QTZ-RICH, MOD SILICIFIED, LIGHTLY CHLORITISED PALE YELLOWISH GRANITE, MIN: ∄ 1% ASP+PY. TWO ¼" QTZ-ASP-PY STRINGERS AT 5' 9' – this short section should be sampled.							SM03 50–60	.005 TR
								SM04 60–70	TR .14
								SM05 70–80	TR .06
								SM06 80–90	TR TR
13 – 18	QTZ-RICH, MOD SILICIFIED, VARIABLY CHLORITISED (GEN LIGHT) YELLOW GREEN GRANITE. ~~MOD~~ ~~NEG~~ MINERALISATN: NEG – 1% DISSEM ASP + PY							SM07 90–100	.005 .02
								SM08 100–105	TR .18
18 – 22' 6"	QTZ-RICH, MOD SILICIF, LIGHT-MOD CHLORITISED GREY GREEN GRANITE. MINN: NEG.								
22'6" – 23'3"	HIGHLY SILICEOUS ZONE – GRADATIONAL CONTACT WITH WHITE GRANITE. 30% PY+ASP	3513 MAIN	22'6"	23'3"	9"	.005	5.08		
23'3" – 28	LIGHTLY SILICIFIED, MOD-LIGHT CHLORITISN WHITISH GRANITE, RARE BLEBS PY & DISSEM PY & ASP TOTAL ∄ 1%								

DRILLED BY CARON. SIGNED John McMullin.

DD-21

0-35' NO SLUDGE SAMPLES.
35-105' SLUDGE SAMPLES AT 10' INTERVALS

DIAMOND DRILL RECORD

PROPERTY PEERLESS, MONTANA MTN 109 DRIFT EAST **HOLE NO.** 2

SHEET NUMBER 2 | SECTION FROM A500 TO REF LINE "A" | STARTED 12TH MAY 1968

LATITUDE 10903 N | DATUM 500 | COMPLETED 12TH MAY 1968

DEPARTURE 9009 E | BEARING 340° | ULTIMATE DEPTH 105

ELEVATION - | DIP + 30° | PROPOSED DEPTH 75

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAY VALUES
28 - 34	MOD. SILICIFIED, LIGHTLY CHLORITISED WHITE GRANITE. VERY FEW FeMg MINERALS. MIN: NEG. (Py)					
34 - 39	QTZ-RICH, MOD SILICIFIED, MOD (IRREGULARLY) CHLORITISED WHITE/GREEN GRANITE. MIN: NEG.					
39 - 44	MOD SILICIFIED, LIGHT-MOD CHLORITISED GREY/GREEN GRANITE. STRINGERS & HAIR LINES OF BOTH QTZ & CHLOR AT 40-50°. MIN NEG.					
44 - 46	"					
46 - 49	QTZ RICH, MOD SILICIFIED, LIGHTLY CHLORITISED GREY GRANITE. MINERALISATION: NIL					
49	½" WIDE QUARTZ STRINGER AT 60°. 5% PY.					
49 - 52	QTZ-RICH, LIGHT-MOD SILICIFICATION LIGHT CHLORITISATION IN YELLOWISH GRANITE NEGLIGIBLE MINERALISATION.					

DRILLED BY CARON

SIGNED J. McMullin.

DD-21

DIAMOND DRILL RECORD

PROPERTY PEERLESS. MONTANA MTN. 109 DRIFT EAST **HOLE NO.** 2

SHEET NUMBER 3 | SECTION FROM A500 ON REF LINE "A" | STARTED 11th MAY 1968

LATITUDE 10903 N | DATUM 500 | COMPLETED 12th MAY 1968

DEPARTURE 9009 E | BEARING 340° | ULTIMATE DEPTH 105

ELEVATION - | DIP + 30° | PROPOSED DEPTH 75

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAY VALUES			
52 - 54	LIGHTLY CHLOR, LIGHTLY SILICIF. GREY-GREEN GRANITE. MINERALISATION : NIL.								
~~54~~									
54	1" THICK WHITE QUARTZ VEIN AT 50° VERY MINOR MOLYBDENITE ASSOC^{D} WITH CHLORITE IN CONTACT.								
54 - 59	QTZ-RICH, LIGHTLY SILICIFIED, VARIABLY CHLORITISED, GREY GREEN GRANITE. MIN : NEG (OCCASIONAL CRYSTS PY)								
59 - 61	QTZ-RICH, MOD SILIC., MOD CHLORITISED IN STRINGERS AT 50°. MIN; NIL								
61 - ~~64~~ 65	STRONGLY SILICIFIED, LIGHTLY CHLORITISED PALE YELLOW GREEN GRANITE. ABUNDANT QTZ STRINGERS. MIN: NIL								
~~64~~ 65 - 67	MOD SILIC, NON CHLORITISED FRESH GRANITE WITH PINK FELSPARS & DARK GREEN FeMg MINS. MIN: NIL.								

DRILLED BY Caron.

SIGNED John McMullin.

DD-21

DIAMOND DRILL RECORD

PROPERTY PEERLESS, MONTANA MTN. 109 DRIFT EAST **HOLE NO.** 2

SHEET NUMBER 4 | SECTION FROM A500 ~~TO~~ REF LINE "A" | STARTED 11th MAY 1968

LATITUDE 10903 N | DATUM 500 | COMPLETED 12th MAY 1968

DEPARTURE 9009 E. | BEARING 340° | ULTIMATE DEPTH 105

ELEVATION - | DIP + 30° | PROPOSED DEPTH 75

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAY VALUES
67 - 78	QTZ-RICH, MOD. SILICIF., LIGHT TO MOD. CHLOR PALE YELLOW/GREEN GRANITE, OCCASIONAL FRESH PINK FELSPAR-BEARING SECTIONS. SEVERAL ¼" QTZ STRINGERS AT 50°-70° WITH VERY MINOR PY.					
78 - 90	QTZ-RICH, LIGHT SILIC, MOD (BECOMING LESS) CHLORITISED GREY GREEN GRANITE. MINERALISATION: ~~RARE~~ RARE PY IN FEW QTZ STRINGERS.	FRESH Granite				
90	2 INCH WHITE QUART VEIN AT 70°, 50% Py	This probably correlates w/ vein in No 1 Assay				0.20 oz/TON
90-96	QTZ-RICH, MOD SILICIFIED, LIGHTLY CHLOR PALE YELLOW GREEN GRANITE. MIN: TRACE (PY IN QTZ STRINGER).		Increasing alt			
96	1" WHITE DRUSY QUART VEIN 80°, 50% Py		@ 109.7	2" qtz w/ asp. py.		
			@ 101.9	1" qtz w/ " "		
96-99	QTZ-RICH, MOD SILIC, LIGHT CHLOR YELLOW GRANITE - MIN NEG.					
99-105	QTZ-RICH, MOD SILICIFIED, NON CHLOR. WHITE GRANITE WITH 1-2% DISSEM PY & ASP		@ 104.1 - 104.5 qtz vein Hdl to vn with bordered arsen. & py.			
		ASSAY				

DRILLED BY CARON.

SIGNED John McMullin.

DD-21

DIAMOND DRILL RECORD

PROPERTY PEERLESS, MONTANA MTN. 109 DRIFT EAST **HOLE NO.** 3

SHEET NUMBER 1 SECTION FROM A 500 ON REF LINE "A" STARTED 12th May 1968

LATITUDE ~~10903 N~~ 10899.93 DATUM 500 COMPLETED 13th May 1968.

DEPARTURE ~~9009 E~~ 9011.76 BEARING ~~340° APPROX~~ N 25°16' W ULTIMATE DEPTH 76

ELEVATION ~~524~~ ? 529.04 DIP ~~+55°~~ +54°48' PROPOSED DEPTH 75

HD - 4381
VD - 621

09113

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAY VALUES AU	AG	SLUDGES	Au	Ag
0 – 4	QTZ-RICH, MOD SILICIFIED, MOD CHLORITISED GREY-GREEN GRANITE. MIN: TR-1% DISSEM PY.	very fresh gr.						3409 10/20	.02	.14
								3410 20/30	.005	.75
4'0" – 4'9"	QTZ-RICH, MOD-WELL SILICIFIED, NON-CHLOR – BLEACHED. IN CENTRE, 1/8" STRINGER OF PY & FINE ASP BEARING QTZ. DISSEMIN ASP IN BLEACHED COUNTRY ROCK. TOTAL 2% ANGLE OF STRINGER – 45°	3514	4'0"	4'9"	9"	.005	0.40	3411 30/40	TR	.10
								3412 40/50	TR	TR
								3413 50/60	TR	TR
								3414 60/70	TR	TR
								3415 70/76	TR	TR
4'9" – 6'0"	FRESH PINK-FELS BEARING NON CHLOR GRANITE LIGHT – MOD SILICIFIED. NIL MINERALISAT.N									
6' – 15	QTZ-RICH, MOD-WELL SILICIFIED, LIGHTLY CHLORITISED, SEMI-BLEACHED? GRANITE FAIRLY REGULAR DISEM. ASP & PY ≯ 5% GEN 1-2%. MANY STRINGERS OF SILICA AT 40°–70°									
15 – 19	LIGHT SILICIF, LIGHT CHLOR. GREYISH GRANITE MIN: TR.									

DRILLED BY Caron. SIGNED John McMullin.

DD-21

DIAMOND DRILL RECORD

PROPERTY PEERLESS, MONTANA MTN 109 DR. E. **HOLE NO.** 3

SHEET NUMBER 2. SECTION FROM A 500 ft ON REF LINE "A" STARTED 12th MAY 1968

LATITUDE 10903 N DATUM 500 COMPLETED 13th MAY 1968

DEPARTURE 9009 E BEARING 340° ULTIMATE DEPTH 76

ELEVATION 524? DIP + 55° PROPOSED DEPTH 75

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAY VALUES Au	Ag.		
19 – 24'6"	LIGHT-MOD SILICIF + CHLORIT GREY-GREEN GRANITE WITH TR-1% DISSEM ASP + PY								
24'6"-25'3"	HEAVILY CHLORITISED, LIGHTLY SILICIFIED GREENISH ALTERATION ROCK. QUARTZ-PY VEIN (50°), 1" WIDE AT 25' MINOR ASP, CPY 20% MIN. More chalcopyrite than usual #1 vein example	Probably #1 vein 3515	24'7"	25'3"	6"	TR	3.14		
25'3" – 27	MOD SIL, MOD CHLOR GREY GREEN GRANITE MIN: TR. DISEM. PY, ASP.								
27 – 34	MOD SIL & CHLOR GR-GRN. GRANITE. MIN = TR. PY + ASP EXCEPT AT 32' WHERE 2" SILIC. BAND CARRIES 15% V. FINE ASP	3516	32'0"	32'6"	5"	.005	.24		
34 – 40.	MOD SILIC. & MOD-WELL CHLOR. YELLOW GREEN GRANITE. ABUNDANT QTZ STRINGERS AND CHLORITIC HAIRLINE FRACTURES AT 30°-70°. MIN: NEGLIGIBLE.								
40 – 41'6"	HEAVY CHLORITIC ALTERATION, STOCKWORK STYLE PRODUCES PSEUDO BRECCIATION. NIL. MIN.								

DRILLED BY CARON. SIGNED J. McMillan

DD-21

DIAMOND DRILL RECORD

PROPERTY PEERLESS 109 . DR . E. **HOLE NO.** 3

SHEET NUMBER 3 SECTION FROM ____ TO ____ STARTED ____

LATITUDE ____ DATUM ____ COMPLETED ____

DEPARTURE ____ BEARING 340° ULTIMATE DEPTH 76

ELEVATION ____ DIP + 55° PROPOSED DEPTH ____

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAY VALUES
41'6" - 51	MOD-WELL SILICIFIED & CHLORITISED WHITISH GRANITE MANY STRINGERS & HAIRLINES OF SILICA & CHLORITE. MINERALISATION: NIL - NEGLIG.					
51 - 61	— DITTO — CHLORITIC VEINING BETWEEN 54 & 55, & 59'6" & 60'6" CAUSES PSEUDO BRECC. AS AT 40' - 41'6".					
61 - 66	QTZ-RICH, WELL SILICIFIED, LIGHTLY CHLORITISED PALE GREENWHITE GRANITE -SEVERAL QTZ. STRINGERS ± 1/4" AT 10-50° MIN: NIL					
66 - 71	MOD-WELL SILICIFIED, LIGHT-WELL CHLOR GREY GREEN GRANITE. MIN: NIL.					
71 - 76	MOD SILIC., LIGHT CHLOR, FAIRLY FRESH PINK-FELS. BEARING GRANITE. A FEW					
END.	BARREN 1/4" QTZ STRINGERS AT 70-80°. NIL. MIN.					

DRILLED BY CARON. SIGNED John McMullin

DD-21

DIAMOND DRILL RECORD

PROPERTY PEERLESS, MONTANA MTN. 109 DRIFT. EAST **HOLE NO.** 4

SHEET NUMBER 1 | SECTION FROM A.550 ON REF. LINE "A" | STARTED 13th MAY 1968

LATITUDE ~~10912 N~~ 10911.89 | DATUM ~~500~~ ARCTIC'S DATUM | COMPLETED 13th MAY 1968

DEPARTURE ~~9056 E~~ 9057.88 | BEARING ~~340° ARROX~~ N 20°29' W | ULTIMATE DEPTH 78 FEET

ELEVATION ~~525 ARROX~~ 525.46 | DIP 0° FLAT ✓ | PROPOSED DEPTH 75 FEET

09113

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAY VALUES Au	Ag	LEDGES	Au	Ag
0 – ~~7~~ 6	LIGHT SILICIF., LIGHT-MOD CHLOR. PALE GREENISH WHITE GRANITE. MIN: TRACE		Note	core not to hole related, unaltered				3'4½ 10/20 TR		0.10
								17 20/30 TR		0.14
								18 30/40 TR		0.24
6-7	WELL SILICIFIED, LIGHTLY CHLORITISED, PALE GREYISH GRANITE. 1-2% DISEM Py. + SUBSID ASP.							19 40/50 TR		0.50
								20 50/60 TR		0.36
								21 60/70 TR		0.24
7-9	MOD SILIC & CHLOR. GREEN WHITE GRANITE. MIN: NIL							22 70/78 TR		0.10
9-15	WELL SILICIFIED, LIGHTLY CHLOR YELLOWISH GRANITE. ABUNDANT VARIOUSLY ORIENTATED QTZ STRINGERS ± ¼" EXCEPT AT 11' WHERE ½" QTZ at 35-40° CARRIES 5-10% PY + ASP.					Au.	Ag.			
	OVERALL MIN: ~~2-3~~ 1% DISSEM PY & ASP.	3517	10'6"	12'6"	2'	TR	.16			
15 – 20	MOD SILICIF., LIGHT CHLOR, GREENISH WHITE GRANITE. MIN: NEGLIGIBLE.									
20 – 22	MOD SILIC. LIGHT CHLOR, PALE YELLOW GREEN GRANITE. 5% DISSEM PY & ASP.	3518	20'	21'9"	20"	.005	.30			
	1" QUARTZ AT 21'. V-FINE ASP 10%									

DRILLED BY CARON.

SIGNED John McMullin.

DD-21

DIAMOND DRILL RECORD

PROPERTY PEERLESS 109 DR E **HOLE NO.** 4

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING 340° ULTIMATE DEPTH 78

ELEVATION _____ DIP 0° FLAT PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAY VALUES			
22 - 26	MOD SIL, LIGHT CHLOR. YELLOW GREEN GRANITE. MIN: NEGLIG.								
26 - 29	MOD-WELL SILIC, LIGHT-MOD CHLOR GRANITE. MIN. TRACE.								
29 - 37	MOD-WELL SILIC., LIGHTLY CHLOR. YELLOWISH GRANITE. OCCASIONAL ½" DARK QUARTZ VEINS AT 45° WITH 25% PY + FINE ASP. 1% DISSEM. ASP. AROUND QUART VEINS.								
37 — 42	QUTZ-RICH MOD-WELL SILICIFIED. LIGHTLY CHLOR. PALE YELLOWISH GRANITE. MIN: TR - 2% DISSEM PY & ASP.								
42	35° 2" DARK QUARZ VEIN 10% V. FINE ASP. Main #1 Vein Suggestion of comb qtz - Sample.								
42-47	QTZ-RICH MOD SILICIF. LIGHTLY CHLOR GREY GREEN GRANITE. OCCASIONAL QUTZ STRINGERS. OCCASIONAL BLEBS OF PY ≯1%.								

DRILLED BY CARON SIGNED John McMullin

DD-21

DIAMOND DRILL RECORD

PROPERTY PEERLESS 109 . DR . E. **HOLE NO.** 4

SHEET NUMBER 3 SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING 340° ULTIMATE DEPTH 78

ELEVATION _____ DIP 0° FLAT PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAY VALUES			
47- 53	MOD-SILICIFIED, QUTZ-RICH LIGHT-MOD CHLOR YELLOW GREEN GRANITE. OCC BLEBS OF PY > 1%								
53-58	~~MOD~~ AS ABOVE EXCEPT AT 56'6" 30° FRACTURE LINED WITH GRAPHITE. & PY. & FINE ASP.	3519	56'0"	56'6"	3"	.02	.32		
58 - 64	QUARTZ-RICH MOD SILIC. LIGHT. CHLOR. YELLOW GREEN GRANITE. OCC. PY, ASP GRAPHITE? AT 63								
64 - 65	FINE GRAINED FELSITIC DARK ROCK WITH 10% 1/10" PY CUBES. & ASP.								
65 - 75	MOD - WELL SILIC. & MOD CHLOR (BOTH VARIABLE) GREY GREEN GRANITE. MIN NEG.								
75 - 78.	MOD-WELL SILICIFIED, LIGHTLY CHLOR PALE GREYISH GRANITE. MIN NEGLIG.								

DRILLED BY CARON. SIGNED John McMullin.

DD-21

LION NICKEL MINES LIMITED

~~McKENZIE RED LAKE GOLD MINES LTD.~~

DIAMOND DRILL CORE LOG

PEERLESS PROPERTY

COLLAR CO-ORDINATES Location 109 DR. E Section A 550

LAT 10911.79 DEP 9057.94 HOLE NO. 109 DR E No. 5 TOTAL DEPTH 71

ELEVATION 528.17 SHEET NO. 1 FT. RECOVERED

~~AZIMUTH~~ N 20°15 W DIP + 33°05 DATE BEGUN May 13/68 % RECOVERY

HOR. 59.6 VERT DATE FINISHED May 14/68 SIZE BIT AQ

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	OZ. AG. ~~VALUE~~ PER TON	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	~~VALUE~~ OZ. AG
0 / 5.0	Light grey, altered, bleached granite. Chloritic alteration to f.m minerals. Highly fractured. 50% core lost					3423			TR .10
5.0 / 24.0	Light greyish to white, bleached, and altered granite.					3424	20/30		TR .32
	Considerable chloritic alteration. Occasional					3425	30/40		TR .20
	patchs fine disseminated pyrite					3426	40/50		TR .20
24.0 / 25.2	Similar to previous with 8% white quartz in irregular,	3520	.005	.62		3427	50/60		TR .10
	tiny fractures. One ½" bluish quartz stringer at 40°					3428	60/70		TR .62
	to core. Sparse fine pyrite and arsenopyrite throughout.								
25.2 / 29.2	Altered, bleached, and slightly silicified granite								
	with occasional small, barren, white quartz filled								
	fracture at 25° to core. Sparse fine py & arsenopyrite					35 - 50 Unaltered			
	25.2 - 27.4	3521	.005	.52					
	Fair vein conc. at 24 → 27.4 - 29.2	3522	.005	.28					
29.2 / 36.0	Continuation of altered granite as in section 5.0 to 24.0								
36.0 / 55.0	Grey, lightly altered granite. Few fractures								
55.0 / 56.2	Fair silicification, and few quartz filled fractures. Fair pyrr, chalco, and py in blebs	3523	.005	2.86		MAIN Nol Vein			
56.2 / 71.0	Grey, moderately altered granite. Few fractures	Sl. Altered							
	Breccia at 68'-69'								
AWPL 71	End of Hole								

LOG BY A. W.

DD-66

LION NICKEL MINES LIMITED
~~McKENZIE RED LAKE GOLD MINES LTD.~~ COPY

DIAMOND DRILL CORE LOG

PEERLESS PROPERTY

COLLAR CO-ORDINATES Location 109 DR. EAST Section

LAT 10910.04 DEP 9056.48 HOLE NO. 109 DR. E. No 6 TOTAL DEPTH 154

ELEVATION 531.09 SHEET NO. 1 FT. RECOVERED

AZIMUTH N 25°20 W DIP +59°26 DATE BEGUN May 15/56 % RECOVERY

HOR. VERT DATE FINISHED May 15/56 SIZE BIT AQ

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~OZ AG. VALUE~~ OZ AG. PER TON	AVGS
0 / 32.0	Light gray to white, bleached altered granite. Chloritic alteration to fine minerals and along tiny irregular fractures.		0-27 Minor Sericite Alt. 27 – END Fresh		
	10.0 – 11.2 1% disseminated py in sil. granite. ½" quartz stgr with 20% arsens	3524	.005	.62	
	17.8 – 18.8 1% pyrite in sil. granite & ½" ϕ stgr 30% arsen	3525	.005	.54	
	23.0 – 26.2 1% py in sil. granite Two ½" ϕ stgrs at 50° with arsen				
	ϕ py in fractures	3526	TR	1.60	
32.0 / 56.0	Gray altered granite. Decreasing alteration, and less fracturing. Very little mineralization				
56.0 / 99.2	Similar to previous, with increasing fracturing.				
99.2 / 101.1	~~Continuation of lightly altered granite as in section~~ 1" white ϕ stgr. at 50° with 10% arsen in fair	3527	TR	.16	
	~~sil. granite 220 – 560 20% core ground~~ sil. granite To chalcopyrite 1120 – 1160 Probably Minor Mat Sch. From altered ex cement.				
101.1 / 132.0	Continuation of lightly altered granite as in sect. 32. – 56.				
	30% core ground 113 – 116				
	1275 – 1295 Small blebs arsen				
	Tpy. & few tiny ϕ filled fractures	3528	TR	.54	
132.0 / 154.0	Light gray, slightly bleached granite. Occasional fracture. V.L.M.				
154.0	End of Hole				

SLUDGES ~~OZ. AG.~~

SAMP.NO.	FROM	OZ.AU	~~VALUE~~
3429	10/20	TR	TR
3430	20/30	TR	TR
3431	30/40	TR	TR
3432	40/50	TR	TR
3433	50/60	TR	TR
3434	60/70	TR	TR
3435	70/80	TR	TR
3436	80/90	TR	TR
3437	90/100	TR	TR
3438	100/110	TR	TR
3439	110/120	TR	TR
3440	120/130	.005	.08
3441	130/140	TR	TR
3442	140/153	.005	.08

AWTEL

LOG BY

DD-21

LION NICKEL MINES LIMITED

~~MACKENZIE RED LAKE GOLD MINES LTD.~~

DIAMOND DRILL CORE LOG

PEERLESS PROPERTY

COLLAR CO-ORDINATES Location 109 Dr. E Section A 550

LAT 10905.02 DEP 9061.59 HOLE NO. 109 DR E No 7 TOTAL DEPTH 167

ELEVATION 521.60 SHEET NO. 1 FT. RECOVERED

AZIMUTH S 21°54 E DIP -43°04 DATE BEGUN May 16/68 % RECOVERY

HOR. VERT DATE FINISHED May 16/68 SIZE BIT AQ

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~VALUE~~ OZ Ag. PER TON		AVGS
0 / 83.0	Light gray, bleached, altered granite. Occasional small chlorite filled fracture at 35°-40°		0-106 - Unaltered 106-142 - Sl. altered 142-End - Unaltered			
	Colorless frost, unaltered sections with traces pink feldspar at following fractures. 12°-19°, 45°-47°, 61°-62°.					
	Gradational contacts. 25.0-27.2 Few clots arsenopy in fractures at 50°	3529	TR	1.00		
83.9 / 106.0	Gray, altered granite. Slight bleaching, and brittle fracturing.					
	Not as much alteration as previous section. Crystals					
	Blurred, but not obliterated as previous.					
106.0 / 121.0	Granite altered, bleached granite. Many sections with					
	xtals obliterated & slightly silicified. Brittle fine					
	disseminated py, and occasional tiny sulphide filled					
	fracture at 30°. @ 107.8 ¼" hypogene pyrite					
	108.0-109.0 ¼ py in sil granite	3530	.005	.30		
	113.4-116.0 Few ⅛" py filled fractures in sil granite	3531	TR	.08		
	116.0-117.0 Light disseminated py in sil. granite	3532	TR	.04		
	~~116.0-119.0 Light disseminated py in sil granite~~	~~3533~~				
	119.0-121.0 Few tiny black fracture pyrite. Brittle unusual	3533	TR	TR		
121.0 / 142.0	Gray altered granite. xtals					
	Blurred. Few fractures					
	136.4-139.0 Several ⅛ filled py at 30°	3534	.005	.04		
~~142.0~~ 142.0	Gray altered granite. Less					
	alteration than previous. Some					
	frost granite in small pockets.					
	156.1-157.4 Slight sil & few fractures arsen @ 40°	3535	TR	.18		
~~END~~ 167	End of Hole					

SLUDGES			
SAMP.NO.	FROM	OZ.AU	~~VALUE~~ OZ. Ag.
3443	10/20	TR	.06
3444	20/30	TR	.32 .06
3445	30/40	TR	.26
3446	40/50	TR	.06
3447	50/60	TR	TR
3448	60/70	TR	TR
3449	70/80	TR	TR
3450	80/90	TR	TR
3451	90/100	TR	TR
3453	110/120	TR	TR
3454	120/130	TR	.02
3455	130/140	TR	.02
3456	140/150	TR	TR
3457	150/160	TR	.06
3458	160/167	TR	.04

LOG BY A. M.

DD-21

LION NICKEL MINES LIMITED

~~McKENZIE RED LAKE GOLD MINES LTD.~~

DIAMOND DRILL CORE LOG

PEERLESS PROPERTY

COLLAR CO-ORDINATES Location 109 DR. E Section A 600

LAT 10920.23 DEP 9105.86 HOLE NO. 8 TOTAL DEPTH 81

ELEVATION 525.38 SHEET NO. 1 FT. RECOVERED

AZIMUTH N 16°24 W DIP Flat DATE BEGUN May 17/68 % RECOVERY

HOR. VERT DATE FINISHED May 17/68 SIZE BIT AQ

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~VALUE~~ Oz. Ag. PER TON	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	~~VALUE~~ Oz. Ag.
0 / 25.0	Grey, lightly altered granite with small patchs fresh granite in places.					3459	10/20	.005	.06
						3460	20/30	TR	.18
25.0 / 25.5	50% quartz blebs in silicified granite 5% arseno 5% py	Persisted vein 3536	TR	1.00		3461	30/40	.005	.08
25.5 / 25.0	Highly altered granite. Crystals obliterated to fine grained felsite. No mineral	Green alteration to granite @ 25'-26 Highly altered 26-27				3462	40/50	.005	.22
						3463	50/60	.005	.32
26.0 / 41.0	Light grey, altered, granite Crystals blurred, slight sil. & bleaching. Very little mineral					3464	60/70	.005	.20
	30.2-30.9 50% white quartz blebs	3537	TR	.16		3465	70/80	TR	.30
41.0 / 73.0	Grey, bleached, altered granite. Slight silicification in places. Some fracturing at 35° & 45° with quartz & mineral filling.				Vein	½" @ 45'			
	45.0-48.0 ½" quartz & few ⅛" py & arseno fractures	3538	TR	.10		¼" @ 51' 1-2" @ 58' ← #1 vein??			
	56.0-59.0 Light silicification & light py in fractures	3539	TR	.16					
73.0 / 73.8	Highly altered granite Crystals obliterated to fine grained felsite.	Could be fault @ 46'							
73.8 / 81.0	Grey altered granite Crystals blurred. Slight bleaching, and chloritic alteration. Very little fracturing or mineral.	Very altered			Close to Fault	65'-70' w py.			
81.0	End of Hole								0

AWPL

LOG BY A. W.

DD-21

LION NICKEL MINES LIMITED

~~MCKENZIE RED LAKE GOLD MINES LTD.~~

DIAMOND DRILL CORE LOG

PEERLESS PROPERTY

COLLAR CO-ORDINATES Location 109 DE. E. Section A600

LAT 10919.76 DEP 9105.86 HOLE NO. 9 TOTAL DEPTH 82

ELEVATION 527.81 SHEET NO. 1 FT. RECOVERED

AZIMUTH N17°09W DIP +31°13' DATE BEGUN May 18/64 % RECOVERY

HOR. 70.4 VERT DATE FINISHED SIZE BIT "AQ"

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~VALUE~~ PER TON		AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	~~VALUE~~ Oz. Ag.
0 / 16.0	Gray granite. Slight alteration Traces pink feldspar. Fresh.						3466	10/20	TR	.06
16.0 / 21.1	Light gray altered granite. Light bleaching & silicification						3467	20/30	.005	.90
	in places & chloritic alteration.						3468	30/40	TR	.36
21.1 / 23.0	Fairly well silicified granite. Fair fracturing at 45°-50°.						3469	40/50	TR	.22
	Fractures filled pyrite & arsenopyrite & quartz.	3540 (3-4" core)	Strong vein .02	1.16			3470	50/60	TR	.47
23.0 / 44.0	Light gray altered granite Light bleaching & silicification						3471	60/70	TR	.22
	in places. Small patches fine disseminated py.									
44.0 / 44.9	Fairly well sil. granite with few ½" - 1" white quartz									
	stringers at 45° to core. Fair py & arsen in fractures	3541	.005	.10						
44.9 / 54.0	Dark gray, crushed, & altered granite. Considerable chloritic					Fault?				
	alteration to fine minerals & along fractures.									
	51.5 - 53.0 15% quartz in fractures ½"-1" py & arsen Tr cpy Not vein?	3542	TR	1.76						
54.0 / 82.0	Light gray altered granite Slight bleaching & silicification									
	in places. Light fracturing Sparse fine py disseminated									
	in places									
82.0	End of Hole									

LOG BY A. W.

AWPL

DD-21

LION NICKEL MINES LIMITED

~~McKENZIE RED LAKE GOLD MINES LTD.~~

DIAMOND DRILL CORE LOG

PEERLESS PROPERTY

COLLAR CO-ORDINATES Location 109 DR. E Section A600

LAT 10918.08 DEP 9106.95 HOLE NO. 10 TOTAL DEPTH 83

ELEVATION 530.49 SHEET NO. ' FT. RECOVERED

AZIMUTH N 17° 29' W DIP + 61° 40' DATE BEGUN May 20/68 % RECOVERY

HOR. 39.4 VERT DATE FINISHED May 21/68 SIZE BIT AQ

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~VALUE~~ OZ. AG PER TON	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	~~VALUE~~ OZ. AG.
0 / 12.0	Gray granite. Very little alteration					3472	20/30	TR	.24
12.0 / 64.0	Light gray, altered granite Light bleaching & slight silicification in places.					3473	30/40	.005	1.20
	Few chlorite filled fractures.					3474	40/50	TR	.06
	at 45°-50'. Sparse py disseminated in places.					3475	50/60	TR	.14
	22.6-24.0 Slight silicification Sparse py & arsenic	3543	.01	.63					
	32.2-32.9 50% white quartz 2% py 1% arsenic	3544	.01	2.47		3476	60/70	TR	.06
64.0 / 83.0	Gray, slightly altered granite. Few fractures.	3" qtz; trace Zn			✓ →	3477	10/20	TR	TR
	Traces fresh granite with pink feldspar in places.					3478	70/80	TR	.04
	Becoming slightly more altered 78'-83'								
83.0	End of Hole								
	@55' Fault - highly altered granite - soft hooking from 50-64'								
	Granite fresh except about fault.								

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LOG BY A.W.

Lion Nickel Mines Limited

MCKENZIE RED LAKE GOLD MINES LTD.

DD-21

DIAMOND DRILL CORE LOG

02113

PEERLESS PROPERTY

COLLAR CO-ORDINATES Location 109 OR-E Section 4650

LAT 10932.01 DEP 9157.52 HOLE NO. 11 TOTAL DEPTH 99

ELEVATION 525.95 SHEET NO. 1 FT. RECOVERED

AZIMUTH N 14°02'W DIP FLAT DATE BEGUN May 21/68 % RECOVERY

HOR. VERT DATE FINISHED May 21/68 SIZE BIT AQ

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	OZ. AG. VALUE PER TON	AVGS
0 / 7.0	Dark grey altered granite. Crystals blurred. Very slight silicification in places				
7.0 / 29.0	Light grey, slightly bleached, altered granite. Fair silicification in places. Chloritic alteration to fem. minerals and in fractures. Occasional fracture at 30°-40° with arsenopyrite. Sparse fine py disseminated ¼ in places.				
14.6-16.0	Fair silicification Fair tiny blebs arsen.	3545	.01	.04	
20.9-22.9	Fair silicification Light arsen & py.	3546	.005	.02	
22.9-29.0	Fair silicification Light arsen + py	3547	TR	.22	
29.0 / 72.5	Grey, slightly altered granite. Gradational change from previous section. Very little silicification or fracturing. Crystals blurred. Traces fresh granite with pink feldspars in places				
72.5 / 74.9	Light grey, slightly bleached granite. Gradational change from previous. Sparse disseminated py & arsen in places. 73.9-74.9 Fair sil light py	3548 @ 75'	TR main qtz.	.02 cons. arsen.	
74.9 / 76.1	Silicified granite with 30% white quartz in blebs 2% py & 2% arsen, mostly associated with quartz.	3549	TR	.30	

SLUDGES

SAMP.NO.	FROM	OZ.AU	OZ. AG. VALUE
3479	5/20	.01	.09
3480	20/30	.01	.19
3481	30/40	.02	.12
3482	50/60	.02	.08
Sludge not collected 40-50 and 60-79.			

AWPL

Continued Page 2

LOG BY A. W.

LION NICKEL MINES LIMITED
~~MCKENZIE RED LAKE GOLD MINES LTD.~~

DD-21

DDH No. 11
Page 2

DIAMOND DRILL CORE LOG

PEERLESS PROPERTY

COLLAR CO-ORDINATES Location 109 OR. E Section

LAT DEP HOLE NO. 11 TOTAL DEPTH

ELEVATION SHEET NO. 2 of 2 FT. RECOVERED

AZIMUTH DIP DATE BEGUN % RECOVERY

HOR. VERT DATE FINISHED SIZE BIT

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	OZ AU PER TON	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	VALUE
76.1 / 77.2	Light grey, slightly bleached altered granite. Sparse disseminated py & arsen in occasional small patch.	3550	TR	.04					
77.2 / 99.0	Light grey, slightly bleached, altered granite. Sme light silicification in places. Crystals blurred. Occasional tiny quartz or sulphide filled fracture at 40°. Decreasing alteration towards end of hole.								
	74.0-75.7 light silicification few quartz filled fractures - sparse py.	3551	TR	.02					
99.0	End of Hole								

LOG BY A.W.

AWPL

11828

LION MINES LIMITED
McKENZIE RED LAKE GOLD MINES LTD.

DD-21

DIAMOND DRILL CORE LOG

09113

PEERLESS PROPERTY

COLLAR CO-ORDINATES Location 109 Or. 6 Section A650

LAT 10929.73 DEP 9158.27 HOLE NO. 12 TOTAL DEPTH 78

ELEVATION 530.17 SHEET NO. 1 FT. RECOVERED

AZIMUTH N 19°01 W DIP + 56°30 DATE BEGUN May 28/68 % RECOVERY

HOR. 43.1 VERT DATE FINISHED May 29/68 SIZE BIT AQ

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~OZ Ag~~ VALUE PER TON		AVGS
0 / 8.0	Grey altered granite. xtals blurred. Very slight sil. in places.					v
8.0 / 56.0	Light grey, slightly bleached, altered granite. Gradational change from previous. xtals obliterated with only occasional blurred remanents. Fair silicification in places. Some fracturing at 35°-45°, occasionally quartz filled, mainly chlorite filled. Sparse fine py in patches.					
	45.1 - 47.0 5% quartz in small stringers. Fair py + arsen. Trace chalc.	3552	.005	.20		
	47.0 - 49.1 Fair sil. Sparse py & py filled fractures	3553	.005	.22		
v	38.7 - 40.1 Light sil. 1% quartz, 2% py	3554	TR	.50		
56.0 / 66.8	Light grey, altered granite as previous, but decreasing alteration and fracturing. Very little mineral.	FAIR sil. @ 38.7 fair arsen @ 45.5 1" qtz wit arsen py @ 50.1 1" qtz arsen py				
66.8 / 78.0	Light grey, altered, very slightly bleached granite. Few quartz & chlorite filled fractures at 40°-45°. Very little mineral.					
78.0	End of Hole					
	Veins in holes 11 & 12 very poorly developed. May be faulted out by fault to the south.					

SLUDGES			Au. ~~Ag.~~
SAMP.NO.	FROM	OZ.AU	~~VALUE~~
3483	10/20	.01	TR
3484	0/10	.02	.18
3485	20/30	.02	.04
3486	30/40	.005	.10
3487	40/50	.005	.10
3488	50/60	.02	.06
3491	60/70		
3492	70/78	TR	TR

AWPL

LOG BY A. W.

RION NICKEL MINES LIMITED
~~McKENZIE RED LAKE GOLD MINES LTD.~~

DD-21

DIAMOND DRILL CORE LOG

PEERLESS PROPERTY

COLLAR CO-ORDINATES — Location 102 DR. E. — Section A 700

LAT 10941.35 DEP 8202.24 — HOLE NO. 13 — TOTAL DEPTH 93

ELEVATION 526.41 — SHEET NO. 1 — FT. RECOVERED

AZIMUTH N 19°59'W DIP Flat — DATE BEGUN 17th May 23/68 — % RECOVERY

HOR. VERT — DATE FINISHED 17th May 23/68 — SIZE BIT A9

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~OZ AU~~ VALUE PER TON	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	~~VALUE~~
0 / 26.0	Gray lightly altered granite. Xtals blurred. Very slight					3489	30/40	.02	.14
	Bleaching & sil. in places. Considerable chloritic alteration.					3490	40/50	.02	.06
26.0 / 30.0	Fresh, grayish pink granite. Very slight alteration.					3493	50/60	TR	TR
30.0 / 30.5	0.5' vuggy, white quartz stringer at 45° 3% pyr, 1% chalco	3555	TR	1.60	.03 Cu TR Ni	3494	60/70	TR	.02
30.8 / 46.5	Light gray, slightly bleached & sil. granite. Few fractures					3495	70/80	TR	TR
	Very little mineralization. 30.8-31.8 Silicified Sparse py	6" wk. qtz. stgr. sparse min. 3556	TR	.04		3496	80/90	TR	.02
46.5 / 48.0	Fresh, grayish pink granite Very little alteration								
48.0 / 65.0	Light gray, slightly bleached & slight silicified granite.								
	Few fractures. Very little mineralization.								
	57.7-60.2 ½" quartz stgr and several fractures arsen	3558	.TR	.82					
65.0 / 69.5	Fresh, grayish pink granite								
69.5 / 76.0	Light gray, slightly bleached, altered granite Very slight								
	Sil in places & considerable chloritic alteration. Occasional								
	tiny quartz filled fracture								
76.0 / 79.0	Fresh, grayish pink, granite								
79.0 / 93.0	Light gray, fairly well bleached, and slightly silicified granite.								
	Some tiny quartz filled fractures Few small blebs mineral								

Continued Page 2

LOG BY A. N.

DD-21

LION NICKEL MINES LIMITED
McKENZIE RED LAKE GOLD MINES LTD.

DDH No 13
Page 2

DIAMOND DRILL CORE LOG

DECREASS PROPERTY

COLLAR CO-ORDINATES — Location 109 DR. E — Section

LAT — DEP — HOLE NO. 13 — TOTAL DEPTH

ELEVATION — SHEET NO. 2 of 2 — FT. RECOVERED

AZIMUTH — DIP — DATE BEGUN — % RECOVERY

HOR. — VERT — DATE FINISHED — SIZE BIT

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	VALUE PER TON	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	VALUE
79.0	Continued.								
93.0	80.5-81.0 2" white quartz at 35° with good arsen	3559	.005	.06					
	83.0-85.3 Few tiny grey quartz fractures at 35° sparse py	3560	TR	TR					
	87.3-89.3 Few small quartz frac & light py	3561	.005	.28					
	89.3-91.2 (5%) Few small quartz fractures. Light py	3562	.005	.12					
93.0	End of Hole								

LOG BY A. W.

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LION NICKEL MINES LIMITED

~~McKENZIE RED LAKE GOLD MINES LTD.~~

DD-21

DIAMOND DRILL CORE LOG

PEERLESS PROPERTY

COLLAR CO-ORDINATES Location 109 DR. E Section A 700

LAT 10939.03 DEP 8208.90 HOLE NO. 14 TOTAL DEPTH 82

ELEVATION 530.08 SHEET NO. 1 FT. RECOVERED

AZIMUTH N 24°55 W DIP + 60°59' DATE BEGUN May 24/68 % RECOVERY

HOR. 39.8 VERT DATE FINISHED May 24/68 SIZE BIT AQ

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~VALUE~~ OZ. AG PER TON	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	~~VALUE~~ OZ. AG.
0 / 23.0	Grey, lightly altered granite. Crystals blurred. Very slight bleaching in places. Traces fresh granite in some sections.					3497	0/20	.005	.16
						3498	20/30	.005	10
23.0 / 24.6	Fresh, greyish pink granite					3499	30/40		
24.6 / 36.3	Grey, lightly altered granite, as in section 0-23.0'.					3500	50/60	TR	3.0
36.3 / 38.1	Fresh, greyish pink granite					3599	60/70	TR	.04
38.1 / 46.2	Grey, lightly altered granite as in sections 0-23.0 + 24.6-36.3					3600	70/80	.005	.38
46.2 / 51.5	Light greyish, almost white, well bleached, lightly sil, & some chloritization, altered granite. Few small quartz fractures at 30° to 60°.								
	46.2-47.3 Silicified + light py	3563	TR	.24					
	47.3-48.8 10% quartz in fractures. one 0.1' quartz stgr with 10% arsenic	3564	.005	2.06					
	48.8-50.4' Sil granite light py	3565	TR	.16					
51.5 / 82.0	Grey, lightly bleached, very slightly silicified, and fairly well chloritized granite. Occasional small quartz filled fracture at 30°. Very little mineral.								
	Best alteration - not intense about vein @ 46-50.								
82.0	End of Hole								

Trace PbS.

Could be Not vein though appears different character.

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[redacted]

DD-21

DIAMOND DRILL CORE LOG

PEERLESS PROPERTY

COLLAR CO-ORDINATES Location 109 DR. E. Section A750

LAT 10949.95 DEP 9254.40 HOLE NO. 15 TOTAL DEPTH 151

ELEVATION 526.70 SHEET NO. ' FT. RECOVERED

AZIMUTH N22°54'W DIP Flat DATE BEGUN May 24/68 % RECOVERY

HOR. VERT DATE FINISHED May 27/68 SIZE BIT AQ

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~VALUE~~ OZ Ag. PER TON	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	~~VALUE~~ OZ. Ag.
0 / 59.5	Greyish green, chloritized, and lightly altered granite.					1001	0/10	TR	.20
	Considerable fracturing. Occasional patch light					1002	10/20	TR	.10
	bleaching and silicification. 3.5'-4.0' 0.15' quartz stgr at					1003	20/30	TR	.16
	45°; 10% pyrr, 2% arseno, trace chalco					1004	30/40		
	in quartz.	3557	.005	.66					
	57.2-58.0 25% white quartz					1005	40/50	TR	.08
	blebs. Sparse py	3566	TR	.06		1006	50/60	TR	.14
59.5 / 66.4	Light grey, well altered, bleached, & lightly sil.					1007	60/70	TR	.14
	granite. Considerable kaolinization to feldspars, and chloritization					1008	70/80	TR	.04
	to f.m. minerals. Some fracturing at 40°-30°					1009	80/90	TR	TR
~~65.0~~	65.0-66.4 Few quartz stgrs Sparse arseno + py	3567	TR	.26		1015	90/100	.12	.50
66.4 / 96.7	Grey, lightly altered, granite. Chloritization					1016	100/110	.04	TR
	throughout, and slight bleaching in places. Occasional				110/120 Lost	1017	120/130	TR	.18
	fractures at 30°-40° with quartz + sulphide. Very					1018	130/140	TR	TR
	sparse disseminated py. 78.4-80.9 Few tiny quartz stgrs. Sparse py	3568	TR	.02		1019	140/150	.005	.02
	90.7-91.2 Sil. granite. Several 1/8" fractures arseno.	3569	TR	TR					
96.7 / 97.3	Slightly sil. granite with 1" T.W. quartz stgr at 25°	1010	AU .32	AG 1.66					
	8% py, 5% arseno, trace bornite in quartz. Chalco & Pbs. Strange angle - appears to be N-S vein.								

LOG BY A.W.

CONTINUED PAGE 2

LION NICKEL MINES LIMITED
~~McKENZIE RED LAKE GOLD MINES LTD.~~

DD-21

DDH No. 15
Page 2

DIAMOND DRILL CORE LOG

PEERLESS PROPERTY

COLLAR CO-ORDINATES — Location 109 DR. E. — Section A 750

LAT _____ DEP _____ HOLE NO. 15 TOTAL DEPTH _____
ELEVATION _____ SHEET NO. 2 FT. RECOVERED _____
AZIMUTH _____ DIP _____ DATE BEGUN _____ % RECOVERY _____
HOR. _____ VERT _____ DATE FINISHED _____ SIZE BIT _____

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~VALUE~~ OZ AG PER TON	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	VALUE
97.3 / 105.0	Grey altered granite. Light bleaching in few short sections. Traces fresh granite in places.								
105.0 / 112.5	Light grey, well altered and lightly bleached granite. Feldspar xtals blurred and slightly kaolonized in places. Fair fracturing with sulphide filling.								
	106.7 - 107.6 10% quartz strgrs with 4% arseno 1% py.	1011	.06	TR					
112.5 / 115.0	Greyish pink, fresh granite. Very little alteration.								
115.0 / 134.0	Light grey, fairly well bleached, altered granite. Some fracturing at 40° - 45°								
	116.1 - 117.4 Sil. granite with fractures @ 40° containing ~~70% arseno 30% py.~~	1012	.12	.32					
	No 1 Vein Strut? 125.7 - 128.5 1" calcite at 40° light arseno in fractures	1013	.005	TR					
134.0 / 151.0	Grey, lightly altered, granite. Light bleaching in few places. Few small patchs fresh granite.								
151.0	End of Hole								

looks stronger than above 0.32 — strongly mineralized block in vein. appears to strike E.W. may be #1. Similar minerals to cache #1. ~~[illegible]~~

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DD-21

DIAMOND DRILL CORE LOG

PEERLESS PROPERTY

COLLAR CO-ORDINATES Location 109 DR. E Section A 750

LAT 10947.64 DEP 9255.46 HOLE NO. 16 TOTAL DEPTH 80

ELEVATION 530.75 SHEET NO. 1 FT. RECOVERED

AZIMUTH N 23°03' W DIP +61°00' DATE BEGUN May 28/68 % RECOVERY

HOR. 38.8 VERT DATE FINISHED May 28/68 SIZE BIT AQ

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	VALUE PER TON	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	oz Ag. ~~VALUE~~
0 / 18.0	Light gray, lightly bleached and chloritized granite.					1020	10/20	TR	TR
	Some chlorite filled fractures at 30° to 50°.					1021	20/30	TR	TR
	4.6'-6.3' Good Sil. granite, with 2" blab quartz containing heavy arseno, py, pyrr, and chalco	1014	AU TR	AG .46		1022	30/40	TR	TR
18.0 / 30.0	Gray, altered granite. Little less bleaching than					1023	40/50	TR	TR
	previous section, and less fracturing. Only occasional					1024	50/60	TR	TR
	small patch light bleaching Considerable chloritization.					1025	60/70	TR	TR.
30.0 / 49.0	Light gray, fairly well bleached and altered granite. Few					1026	70/80	TR	TR
	fractures with quartz and arsenopy. At 50.4 one								
	fracture 1/4" with 10% arseno.								
49.0 / 57.5	Light gray, bleached, sil, altered granite. Xtals obliterated.								
57.5 / 62.3	Light grayish yellow, bleached, and slightly sil. granite								
	Some kaolinization to feldspars.								
62.3 / 80.0	Gray altered, and lightly bleached granite. Xtals blurred.								
	Alteration decreasing from previous section. Very								
	little fracturing or mineral 0.01' arseno in fracture at 20°								
	at 69.3'. Patch well bleached granite at 75.5 - 77.5								
80.0	End of Hole								

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DD-21

DIAMOND DRILL CORE LOG

PEERLESS PROPERTY

COLLAR CO-ORDINATES Location 109 DR. E. Section A800

LAT 10960.02 DEP 9299.45 HOLE NO. 17 TOTAL DEPTH 131

ELEVATION 526.50 SHEET NO. 1 FT. RECOVERED

AZIMUTH N 20°28' W DIP Flat. DATE BEGUN May 28/68 % RECOVERY

HOR. VERT DATE FINISHED May 29/68 SIZE BIT AQ

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	VALUE PER TON	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	oz. Ag. ~~VALUE~~
0 / 131	Grey, lightly altered, and very slightly bleached granite with considerable chloritization throughout, but more intense from 0-20'. Traces fresh granite in places. Few very short sections show light silicification & bleaching.					1027	0/10	TR	TR
						1028	10/20	TR	TR
						1029	20/30	TR	TR
						1030	30/40	TR	TR
						1031	40/50	TR	TR
131	End of Hole					1032	50/60	TR	TR
	All fairly unaltered granite					1033	60/70	TR	TR
	Possible ground vein @ 78.5 arsenic, PbS,					1034	70/80	TR	TR
						1035	80/90	TR	.14
						1036	90/100	TR	.18
						1037	100/110	TR	.10
					✓	1038	120/130	TR	.06

LOG BY A.W.

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DIAMOND DRILL CORE LOG

PEERLESS PROPERTY

COLLAR CO-ORDINATES Location 109 DE E Section A 800

LAT 10957.21 DEP 9300.34 HOLE NO. 18 TOTAL DEPTH 75

ELEVATION 530.09 SHEET NO. 1 FT. RECOVERED

AZIMUTH N 13°08'W DIP +60°24' DATE BEGUN May 30/68 % RECOVERY

HOR. VERT DATE FINISHED May 31/68 SIZE BIT AQ

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~VALUE~~ OZ Ag. PER TON	AVGS
0	Gray, very slightly altered				
49.0	granite. Traces fresh				
	granite in places. Numerous				
	chlorite filled fractures				
	at 45° to 80°, and considerable				
	chloritic alteration to		Throughout 0-75		
	f.m. minerals. Very little				
	bleaching & sil.				
49.0	Fairly well silicified,				
51.8	and lightly bleached granite.				
	5% white quartz stringers				
	at 70°. Few patchs with				
	light py & arsano				
	49.0 - 51.6	3570	TR	TR	
51.8	Gray, very slightly altered				
75.0	granite. Traces fresh,				
	granite throughout.				
	Slight bleach 73-75				
75	End of Hole				

SLUDGES			~~VALUE~~ Oz. Ag.
SAMP.NO.	FROM	OZ.AU	
1039	10/20	TR	TR
1040	20/30	TR	.02
1041	30/40	TR	.06
1042	40/50	TR	.10
1043	50/60	TR	.16
1044	60/70	TR	.04

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DD-21

May Invoice to 113' depth #19

DIAMOND DRILL CORE LOG

PEERLESS PROPERTY

COLLAR CO-ORDINATES Location 109 DR. E Section A 900

LAT 10980.28 DEP 9409.53 HOLE NO. 19 TOTAL DEPTH 178

ELEVATION 526.45 SHEET NO. 1 FT. RECOVERED

AZIMUTH N 24°18'W DIP Flat DATE BEGUN June 1/68 % RECOVERY

HOR. VERT DATE FINISHED June 2/68 SIZE BIT AQ

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~VALUE~~ OZ Ag PER TON	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	~~VALUE~~ Oz. Ag.
0 / 16.0	Grey, slightly altered granite. Chloritic alteration					1045	0/10	TR	TR
	to f.m. minerals & occasional chlorite filled fracture.					1046	10/20	TR	TR
	Very slight bleaching in places. Traces fresh					1047	20/30	TR	.06
	granite					1050	50/60	TR	.02
16.0 / 34.0	Grey, fresh granite. Few patchs slight alteration.					1051	60/70	TR	TR
34.0 / 48.0	Light grey, lightly altered granite. Crystals blurred,					1052	70/80	TR	TR
	and slight bleaching. Few patchs light silicification					1053	80/90	TR	.20
	and occasional fracture					1054	90/100	TR	.08
48.0 / 57.5	Grey, fresh granite. Little fracturing, & traces					1055	100/110	TR	TR
	pink feldspar.					1056	110/120	TR	.12
57.5 / 148.3	Light grey, lightly altered granite. Moderate bleaching					1057	120/130	TR	.10
	throughout, & little sil. Considerable, irregular					1058	130/140	TR	.06
	fracturing in places, with few tiny white quartz	@66' qtz w pyrite, gnome				1059	140/150	.005	.22
	strgrs. Patchs very light py & arseno in blebs	Fault @ 78'.				1060	150/160	TR	.10
Fault?	80.1-82.3 5% quartz. Sparse py + arseno. Core	3571	TR	.06		1061	160/170	TR	.02
	101.9-103.6 badly broken up. 5% quartz stringers very little mineral	3572	TR	TR		1062	170/178	TR	.46
148.3 / 178.0	Light grey, slightly altered granite. Less alteration than previous section. Little sil. Considerable chloritization and fracturing	Fault @ 142'							
178	End of Hole.								

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+60°

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DIAMOND DRILL CORE LOG

PEERLESS MINE

COLLAR CO-ORDINATES Location 109 DR. E. Section A900

LAT 10975.55 DEP 9410.48 HOLE NO. 20 TOTAL DEPTH ~~[illegible]~~ 124

ELEVATION 531.14 SHEET NO. ~~[illegible]~~ 1 FT. RECOVERED

AZIMUTH N19°44'W DIP +61°02' DATE BEGUN June 2/68 % RECOVERY

HOR. VERT DATE FINISHED June 3/68 SIZE BIT AQ

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	OZ Ag ~~VALUE~~ PER TON	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	OZ Ag ~~VALUE~~
0 / 13.0	Grey granite. Very little alteration					1063		TR	.26
13.0 / 23.0	Light grey granite. Slight bleach and silicification	FAULT 13-20' veining @ 19'				1064		TR	.12
23.0 / 25.0	Grey granite Very little alteration					1065		TR	.08
25.0 / 25.5	80% barren white quartz with 20% chloritic inclusions.					1066		TR	TR
	Patchs arseno in inclusions 25.0 - 25.5	3573	TR	.04		1067		.005	.12
25.5 / 28.2	Grey granite. Slight alteration & silicification.					1069	60/70	TR	.04
28.2 / 28.7	5% quartz stringers in sil granite with much chlorite.					1070	70/80	TR	TR
	Light disseminated py. and arsenopyrite 28.2 - 28.7	3576	TR	.10		1071	80/90	TR	TR
28.7 / 29.3	White quartz vein with 5% arsenopyrite disseminated					1072	90/100	TR	TR
	throughout in coarse crystals Contacts indistinct due to					1073	100/110	TR	TR
	core grinding 28.7 - 29.3	3575	TR	TR		1074	110/120	TR	TR
29.3 / 30.0	Slightly silicified granite Sparse py. 29.3 - 30.0	3574	TR	.02		~~[illegible]~~	~~120/130~~		
30.0 / 43.0	Light grey, slightly bleached, altered granite. Some light silicification in places. Few chlorite filled fractures								
	Very little mineralization								
43.0 / 47.0	Grey granite. Less alteration than previous								

Samples at 10' intervals from 0-60' Bags not marked by drill

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Continued on Page 2

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DD-21

DDH No. 20

Page 2

DIAMOND DRILL CORE LOG

COLLAR CO-ORDINATES Location PEERLESS MINE 109 DR. E Section

LAT DEP HOLE NO. 20 TOTAL DEPTH

ELEVATION SHEET NO. 2 FT. RECOVERED

AZIMUTH DIP DATE BEGUN % RECOVERY

HOR. VERT DATE FINISHED SIZE BIT

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~VALUE~~ OZ Ag PER TON	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	VALUE
47.0 / 53.0	Dark greenish altered granite. Considerable chloritic alteration and slight silicification.								
53.0 / 73.0	Light gray altered granite. Slight bleaching, and some silicification in places. Chloritic alteration throughout. Occasional fracture at 70° Very little mineralization	Fault @ 63							
72.0	59.2-59.8 12" white quartz stringer at 70°. 20% py	Fair vein, vuggy. 3577	TR	-10					
73.0 / 80.0	Gray granite. Very little alteration								
80.0 / 101.0	Light gray, well altered granite, with moderate silicification, and bleaching in places. Some kaolinization to feldspar. Chloritic alteration throughout. Sparse arseno & pyrite disseminated in places. 94.4-95.1 ½" quartz stgr at 30° with 1% arseno & light py in sil granite	84-96 Fault - very soft ground w gouggy sections & G.C. 3578	TR	TR					
101.0 / 124.0	Gray granite. Very light alteration. Occasional fracture at 45°. Very little mineral. Very light bleaching 123.0-124.0, with longitudinal fracturing.								
124	End of Hole								

LOG BY A.W.

+60°

DD-21

LION NICKEL MINES OF CANADA LTD.

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DIAMOND DRILL CORE LOG

PEERLESS MINE

COLLAR CO-ORDINATES Location 107 LEVEL E Section A950

LAT 10988.97 DEP 9957.27 HOLE NO. 21 TOTAL DEPTH 62

ELEVATION 931.17 SHEET NO. 1 FT. RECOVERED

AZIMUTH N 25°34'W DIP +60°14' DATE BEGUN June 3/68 % RECOVERY

HOR. VERT DATE FINISHED June 3/68 SIZE BIT AQ

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	VALUE PER TON	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	VALUE
0 / 9.0	Gray, fresh granite. Few pockets light alteration					1076	0/10	TR	02. Ag. TR
9.0 / 46.0	Light gray, lightly altered granite. Slight silicification & bleach throughout. Few fractures 45°-50°. Few tiny fractures with white quartz. Occasional small blebs arsenopyrite & py					1077	10/20		
						1078	20/30	TR	04
						1079	30/40	TR	TR
						1080	40/50	TR	TR
46.0 / 62.0	Gray granite. Very little alteration					1081	50/60	TR	TR
62	End of Hole								
	Suggestion of fault 15-20' (mild)								

LOG BY D.W.

ASPL

DD-21

LION NICKEL MINES OF CANADA LTD

DIAMOND DRILL CORE LOG

PEERLESS ADIT

COLLAR CO-ORDINATES Location 109 DR E Section A1000

LAT 10997.09 DEP 2509.97 HOLE NO. 22 TOTAL DEPTH 189

ELEVATION 526.89 SHEET NO. 1 FT. RECOVERED

AZIMUTH N 17°21'W DIP Flat. DATE BEGUN June 4/68 % RECOVERY

HOR. VERT DATE FINISHED June 6/18 SIZE BIT AQ

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~VALUE~~ OZ Ag PER TON		AVGS
0 / 125.0	Gray Granite. Very little alteration or fracturing. No mineralization.					
125.0 / 127.0	Dark greenish granite with considerable chloritic alteration. Very slight silicification. Many irregular fractures. 5% gray-white quartz in small stringers at 30°-50°. Few small blebs ppy & arsano of quartz					
	Contacts - little mineralization in quartz or granite. VVSGY					
	125.0 - 127.0	3579	TR	TR		
	Could be fault @ 125' ±					
127.0 / 140.0	Dark greenish granite. Slight silicification & fracturing. Occasional tiny white quartz stringers. Very little mineral.					
140 / 189.0	Gray granite. Very little alteration except in occasional small patch.					
189	End of Hole					

SLUDGES			
SAMP.NO.	FROM	OZ.AU	~~VALUE~~ OZ. Ag.
1082	0/10	TR	TR
1083	10/20		
1084	30/30	TR	TR
1085	30/40	TR	TR
1086	40/50	TR	.04
1087	50/60	TR	.06
1088	60/70	TR	TR
1089	70/80	TR	TR
1090	80/90	TR	TR
1091	90/100		
1092	100/110	TR	TR
1093	110/120	TR	TR
1094	120/130	TR	.14
1095	130/140	TR	TR
1096	140/150	TR	.12
1097	150/160	TR	.02
1098	160/170	TR	.18

APPL.

LOG BY A.W.

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[redacted].

DD-21

DIAMOND DRILL CORE LOG

PEERLESS MINE

COLLAR CO-ORDINATES Location 109 DR. E Section A1000

LAT 10991.98 DEP 9507.57 HOLE NO. 23 TOTAL DEPTH 212

ELEVATION 523.29 SHEET NO. 1 FT. RECOVERED

AZIMUTH S 18°17E DIP -50°12' DATE BEGUN June 6/68 % RECOVERY

HOR. 135.7 VERT DATE FINISHED June 7/68 SIZE BIT AQ

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	OZ Ag PER TON	AVGS
0 / 25.5	Greyish green granite. Much chloritic alteration to f.m. minerals & slight kaolinization to feldspars. Core badly broken up and shattered.	First Box 0-37' Much lost core			
25.5 / 56.5	Light grey, lightly altered granite. Light silicification, high chloritic, and some kaolinization alteration. Considerable tiny quartz & sulphide filled fractures at 50°.				
	28.0-27.0 Sil. granite with 3% quartz, 2% arsenu. 1% py.	3580	OZ	.22	
	28.2-31.0 Sil. granite & few sulph. fract.	3581	TR	.26	
	31.8-34.1 Sil. granite with 15% quts. 2% arsenu 2% py.	3582	TR	TR	
	54.0-56.5 Sil. granite with 10% quartz, 1% arsenu 2% py. Core badly broken & 30% lost.	3583	TR	.32	
56.5 / 102.0	Grey granite. Very little alteration except in few small patches				
	82.3-83.7 1/2" quartz stringer at 30° with 10% py & 3% arsenu	3584	.005	.04	
	88.0-89.3 Sil. granite with 10% quartz stringers at 50°. 3% arsenu	3585	TR	.14	

SLUDGES			
SAMP.NO.	FROM	OZ.AU	VALUE
No sludge samples, due to short casing and light location.			

LOG BY R.W.

DD-21

Page 2
DDH 23

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DIAMOND DRILL CORE LOG

PEERLESS MINE

COLLAR CO-ORDINATES — Location 109 OR. E — Section

LAT — DEP — HOLE NO. 23 — TOTAL DEPTH

ELEVATION — SHEET NO. 2 — FT. RECOVERED

AZIMUTH — DIP — DATE BEGUN — % RECOVERY

HOR. — VERT — DATE FINISHED — SIZE BIT

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	OZ. Ag ~~VALUE~~ PER TON	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	VALUE
102.0 / 122.5	Light ~~grey~~ cream coloured, well altered granite. Considerable kaolinization, silicification, and ~~mineralization~~ throughout. Many fractures at irregular angles (mainly 50°) with sulphide filling, and few with white quartz. Fine arsenopyrite and coarse py disseminated irregularly throughout. F.M. minerals destroyed. 3" section at 116' is 30% dark blue quartz with 50% arsenopyrite								
	103.2-104.1 Sil. granite with 2" quartz stgr @ 50° 1% diss. py.	3586	TR	.04					
	113.2-114.5 Sil. granite. 5% quartz stgrs 3% py.	3587	.005	.30					
	114.5-115.6 Sil granite. 2% arseno. 3% py. Small ~~blob galena~~	3588	.005	.30					
		—	Good	looking	Section	- Best vein			
					vuggy.	appears like			
						strong structure			
	115.6-116.4 Sil. granite with 3" blue quartz. 50% arseno in quartz	3589	.005	TR		in this section			
						Could be major			
						vein break 116-120'			
	116.4 117.5 Sil. granite - 2% py, 2% fine arseno.	3590	.01	TR		Check #2			
						vein in adit			
						projection.			
	117.5 118.6 Sil. granite. 4% quartz stgrs at 50° 3% arsenopyrite	3591	TR	TR					
122.5 / 212.0	Grey granite. Fresh, very little alteration.								
212.0	End of Hole								

LOG BY A W

-60

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DD-21

DIAMOND DRILL CORE LOG

091113

COLLAR CO-ORDINATES Location PEERLESS MINE 109 DR. E Section A 1050

LAT 11004.54 DEP 9564.49 HOLE NO. 24 TOTAL DEPTH 160'

ELEVATION 523.47 SHEET NO. 1 FT. RECOVERED

AZIMUTH S 17°12' E DIP -59°21' DATE BEGUN June 8/68 % RECOVERY

HOR. 81.6' VERT DATE FINISHED June 10/68 SIZE BIT AQ

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~VALUE~~ OZ. AG PER TON	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	VALUE
0 / 29.4	Grey granite. Very light alteration. Few fractures at 30° & 60°								
29.4 / 70.0	Light grey lightly altered (chlorite, kaolin, slight sil.). Similar to previous section. But slightly increasing alteration. Sparse py & arseno disseminated in patchs, and filling occasional fracture. Very few narrow quartz stringers 1/8"-3/4" at various angles from 30° to 80°.	High chlorite							
	41.0-44.0 Sil granite with 1% py diss. & 3-1/2" quartz strgrs at 35° & 60° with high arseno. in quartz.	3592	TR	.02					
		Poor @ 66.0		1/2" qtz w/ py, PbS in W.R.					
70.0 / 82.0	Light, cream coloured altered granite. Light kaolinization & some silicification in places. Sparse disseminated py & arseno in few sections. Few fractures 30°-45°								
82.0 / 110.0	Grey granite. Alteration decreasing to slight. Very little fracturing or mineral								
	89.1-89.6 1/4" quartz strgr with several blebs py in fract. granite	3593	TR	.02					

LOG BY

DDH No. 24
Page 2

LION NICKEL MINES OF CANADA LTD
[redacted].

DD-21

DIAMOND DRILL CORE LOG

COLLAR CO-ORDINATES

Location: PEERLESS MINE 109 DR. E
Section:
LAT: DEP:
HOLE NO.: 24
TOTAL DEPTH:
ELEVATION:
SHEET NO.: 2
FT. RECOVERED:
AZIMUTH: DIP:
DATE BEGUN:
% RECOVERY:
HOR.: VERT:
DATE FINISHED:
SIZE BIT:

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~VALUE~~ OZ. Ag PER TON	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	VALUE
110.0	Grey granite. Very								
152.0	little alteration, except								
	for occasional small patchs.								
	Negligible mineral & fracturing.								
	Some kaolinization 146-150								
	130.8-131.5 ½" white quartz	3594	.01	.11		No veins in this hole of any consequence			
	stringer with 10%								
	arsena disseminated								
	in granite								
	145.0-145.5 ¼" bleb quartz	3595	.005	.34					
	with traces galena								
	in sil. granite								
152.0	Pink Granite. Fresh.	as in previous hole							
160.0	No alteration								
160.0	End of Hole								

LOG BY: A.W.

LION NICKEL MINES OF CANADA LTD

[redacted] D.

DD-21

09113

DIAMOND DRILL CORE LOG

COLLAR CO-ORDINATES

Location PEERLESS MINE 109 OE.E Section A1100

LAT _____ DEP _____ HOLE NO. 25 TOTAL DEPTH 60

ELEVATION _____ SHEET NO. 1 FT. RECOVERED _____

AZIMUTH N 20°W DIP +60° DATE BEGUN June 10/68 % RECOVERY _____

HOR. _____ VERT _____ DATE FINISHED June 11/68 SIZE BIT AQ

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	VALUE PER TON	AVGS
0/60	Gray granite. Moderate alteration				
	Hole abandoned. Location does not provide enough room for rod changes.				

SLUDGES			
SAMP.NO.	FROM	OZ.AU	VALUE

AWPL

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[redacted] DEVELOPED GOLD MINES LTD.

DD-21

DIAMOND DRILL CORE LOG

Peerless mine

COLLAR CO-ORDINATES Location 109 DR. E Section A 1100

LAT 11017.55 DEP 9606.44 HOLE NO. 26 TOTAL DEPTH 961'

ELEVATION 530.46 SHEET NO. 1 FT. RECOVERED

AZIMUTH N20°22'W DIP +35°11' DATE BEGUN June 11/68 % RECOVERY

HOR. 881 VERT 359' DATE FINISHED June 21/68 SIZE BIT AQ

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~VALUE~~ OZ Ag PER TON	AVGS
0 / 85.0	Gray granite. Light chloritic alteration to f.m. minerals & slight blurring of feldspars				
	Occasional fracture at 70° & 30°				
	Few small patchs sparse diss. py. 3' ground core 38'-44.0'.	Minor	faulting 40-50° no veins.		
85.0 / 140.3	Gray granite. Less alteration than previous. Traces of fresh pink granite in places. Few fractures at 60° & 70°				
140.3 / 150.0	Light gray, moderately altered granite. 80% of chloritized f.m. minerals destroyed and feldspar xtals obliterated and in places kaolonized. Slight sil. in places and Traces py & arsano diss. 145.4 - 147.0	3597	Fair TR	mineralization over 1.6' width of vein 0.20	
150.9 / 168.0	Gray granite. Very little alteration, mainly to f.m. minerals. Many short sections fresh pink granite.				
168.0 / 202.0	Gray granite. Considerable chloritic alteration to f.m. minerals and some kaolinization to feldspars in places. Very little silicification or mineralization				
	Occasional fractures 30°, 45°, & 70°				
202.0 / 225.0	Similar to previous with decreasing alteration.				

SLUDGES			
SAMP.NO.	FROM	OZ.AU	~~VALUE~~ OZ. Ag.
1301	10'	20'	TR · 10
1302	20	30	TR · 10
1303	30	40	TR · 10
1304	40	50	TR · 10
1305	50	60	TR · 16
1306	60	70	TR TR
1307	70	80	TR TR
1308	80	90	TR TR
1309	90	100	TR TR
1311	100	110	TR · 34
1312	110	120	TR · 02
1313	120	130	TR · 02
1314	130	140	TR · 04
1315	140	150	TR 06
1316	150	160	TR TR
1317	160	170	TR · 06
1318	170	180	TR TR
1319	180	190	TR TR
1320	190	200	005 TR
1321	200	210	TR · 02
1322	210	220	TR 04
N.S.	220	230	TR

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MCKENZIE RED LAKE AREA MINES LTD.

DD-21

DIAMOND DRILL CORE LOG

PEERLESS MINE

COLLAR CO-ORDINATES Location 100 DEG. E Section

LAT DEP HOLE NO. 26 TOTAL DEPTH

ELEVATION SHEET NO. 2 FT. RECOVERED

AZIMUTH DIP DATE BEGUN % RECOVERY

HOR. VERT DATE FINISHED SIZE BIT

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~OZ AG VALUE~~ PER TON		AVGS
225.0	Frash, pink granite.					
304.5	No alt. & very little fracturing					
	1' crushed core at 282'					
304.5	Moderately altered granite.					
311.0	Considerable fracturing at 45°					
311.0	Frash, pink granite.					
318.1						
318.1	Cream coloured, well altered.					
319.0	granite. F.m. minerals completely					
	destroyed & feldspar xtals					
	obliterated. Traces py.					
	318.1 - 319.0	35998	TR	.06		
319.0	Frash, pink granite					
332.0						
332.0	Light grey, moderately altered					
340.0	granite. Xtals blurred and					
	slight bleaching.					
340.0	1" blue quartz at 45°. 3%					
340.5	py in fractures, & 10% arsen.					
	diss.					
	340.0 - 340.5	1101	TR	.32		
340.5	Cream coloured, well altered					
345.0	granite. Xtals obliterated.					
	Traces sparse diss. py.					
345.0	Light grey, moderately					
351.5	altered granite.					
351.5	Frash, pink granite					
363.2						

SLUDGES			~~OZ. AG~~
SAMP.NO.	FROM	OZ.AU	~~VALUE~~
1323	220	230	
1324	230	240	TR - TR
1325	240	250	TR TR
1326	250	260	TR .04
1327	260	270	TR .12
1328	270	280	TR .12
1329	280	290	TR .04
1330	290	300	TR TR
1331	300	310	TR .12
1332	310	320	TR .12
1333	320	330	TR .10
1334	330	340	TR .10
1335	340	350	TR TR
1336	350	360	TR .14

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~~MCKENZIE RED LAKE GOLD MINES LTD.~~

DD-21

Page 3
DDH 26

DIAMOND DRILL CORE LOG

PECKLESS MINE

COLLAR CO-ORDINATES

Location 109 DP E

Section

LAT ____ DEP ____

HOLE NO. 26

TOTAL DEPTH

ELEVATION ____

SHEET NO. 3

FT. RECOVERED

AZIMUTH ____ DIP ____

DATE BEGUN

% RECOVERY

HOR. ____ VERT ____

DATE FINISHED

SIZE BIT

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~VALUE~~ PER TON	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	~~VALUE~~ oz. Ag.
363.2	Braccia tad granite.								
364.2	Granite fragments ¼" to ½"					1337	360	370	TR .12
	in fine grained silicaus					1338	370	380	TR .10
	and chloritic matrix.								
	Two slips at 25° with					1339	380	390	TR .16
	graphite. Very little								
	mineralization.					1340	390	400	TR .10
369.4	Fresh, pink granite.								
400.0	Broken & crushed core with					1341	400	410	TR .06
	rusty sandy fragments								
	from 377-381, & 396-400.					1342	410	420	TR .10
	No mineral in fragments.					1343	420	430	
400.0	Light grey, lightly altered							440	
406.0	granite. F.m. minerals					1344	430	450	TR .06
	chloritized & feldspars					1345	440	450	TR .08
	blurred. Some fractures								
	at 70° with tiny barren								
	quartz stigs. Crushed,								
	broken up core with								
	some rust stains 400-401								
	Occasional, sparse, fine								
	pyrite trace.								
406.0	Grayish old. granite, similar								
427.0	to previous section. Considerable								
	broken up and rust stained			close to surface or a fault.					
	core. Two specks galena								
	at 419'. Very little			crushed zone & rusty core probably a fault.					
	mineral otherwise								
	415.5 - 417.4 Few quartz & calcite stigs. Trace py.	1102	.005	.05					
	420.7 - 421.5 Few tiny quartz stigs. Trace py.	1103	TR	TR	granite and fault.				
	422.3 424.4 Few tiny quartz & calcite stigs. Trace fine py & arsano miss.	1104	TR	.16					

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LION NICKEL MINES OF CANADA LTD
McKENZIE RED LAKE GOLD MINES LTD.

DD-21

DIAMOND DRILL CORE LOG

PEERLESS MINE

COLLAR CO-ORDINATES

Location 109 DAP. E Section

LAT DEP HOLE NO. 26 TOTAL DEPTH

ELEVATION SHEET NO. 4 FT. RECOVERED

AZIMUTH DIP DATE BEGUN % RECOVERY

HOR. VERT DATE FINISHED SIZE BIT

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	VALUE PER TON	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	VALUE
429.0	Fresh, pink granite.								
445.0									
445.0	Gray, lightly altered granite								
461.0	Considerable fracturing at 80°, 70°, & 45°. Few tiny quartz stringers. Occasional tiny blob py & arsen. & trace chalco.								
461.0	End of Hole.								

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MCKENZIE RED LAKE GOLD MINES LTD.

DD-21

DIAMOND DRILL CORE LOG

09113

PEERLESS MINE

COLLAR CO-ORDINATES

Location 109 DR. E Section

LAT DEP HOLE NO. 27 TOTAL DEPTH 10'

ELEVATION SHEET NO. FT. RECOVERED

AZIMUTH DIP DATE BEGUN June 21/68 % RECOVERY

HOR. VERT DATE FINISHED June 21/68 SIZE BIT AQ

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	VALUE PER TON	AVGS	SLUDGES			
						SAMP.NO.	FROM	OZ.AU	VALUE
0 / 10.0	Light grey, moderately altered granite.								
10.0	End of Hole. Hole abandoned for the reason it was drilled very crooked & rods binding								

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LION NICKEL MINES OF CANADA LTD

~~McKENZIE RED LAKE GOLD MINES LTD.~~

DIAMOND DRILL CORE LOG

INVOICED MONTH OF JUNE #28 to 442' DD-21

COLLAR CO-ORDINATES

Location PEERLESS MINE 109 DR. E

Section

LAT 11019.13 DEP 9603.16 HOLE NO. 28 TOTAL DEPTH 498

ELEVATION 527.22 SHEET NO. 1 FT. RECOVERED

AZIMUTH N 16°59'E DIP +9°42' DATE BEGUN June 22/68 % RECOVERY

HOR. VERT DATE FINISHED July 2/68 SIZE BIT AQ

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~VALUE~~ OZ Ag PER TON	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	~~VALUE~~ OZ Ag
0 / 14.0	Gray, moderately altered granite. Some fracturing					1346	0	10	TR .08
	at 45° and few knife edge quartz stringers					1347	10	20	TR .08
	Occasional patch fine disseminated py & arseno.					1348	20	30	.005 .14
14.0 / 83.0	Similar to previous section with slightly less alteration					1349	30	40	TR .14
	and fracturing. Occasional short patch fresh granite.					1350	40	50	TR .06
	Broken up core 70'-72', & 82.0-83.0'					1351	50	60	TR .12
	49.5-50.0 2½" white quartz at 50°. Light py &	1105	TR	.10		1352	60	70	TR .08
	arseno in fractures & wall rock.	MAJOR FAULT ZONE 86-108' Sericite, kaoline, broken core continuous				1353	70	80	
83.0 / 155.0	Gray, moderately altered granite. Slight silicification					1354	80	90	TR .04
	& few quartz strgrs in few more severely altered					1355	90	100	TR .06
	sections. Section 86.0-105.0 severely					1356	100	110	TR .14
	crushed and broken with only sandy remanents left.					1357	110	120	TR .08
	83.0-84.0 20% white, barren quartz & calcite.	1106	TR	TR		1358	120	130	.005 .30
	Traces py in sil granite								
	103.0-104.3 Sil. granite with few tiny quartz & calcite strgrs. Traces py & kaolinized feldspars.	1107	.005	.08		1359	130	140	TR .04
	136.3-137.8 Slight sil granite with few tiny quartz strgrs. at 45°. Traces py & arseno.	1108	TR	.08					

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LOG BY AW

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Page 2
DDH 28

LION NICKEL MINES OF CANADA LTD
McKENZIE RED LAKE GOLD MINES LTD.

DD-21

DIAMOND DRILL CORE LOG

PEERLESS MINE

COLLAR CO-ORDINATES — Location 109 DE. E. — Section

LAT — DEP — HOLE NO. 28 — TOTAL DEPTH

ELEVATION — SHEET NO. 2 — FT. RECOVERED

AZIMUTH — DIP — DATE BEGUN — % RECOVERY

HOR. — VERT — DATE FINISHED — SIZE BIT

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~VALUE~~ Oz. Ag PER TON	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	~~VALUE~~ Oz. Ag
155.0 / 187.0	Light gray, well altered granite. 75% of f.m. minerals destroyed. Slight kaolinization to feldspars in places. Occasional, tiny, cherty, blue quartz stringer at 20° to 45°. Traces py and arsenic in places.					1360	140	150	TR .14
						1361	150	160	TR .08
						1362	160	170	TR .10
						1363	170	180	TR .02
187.0 / 238.0	Very light gray to cream coloured very well altered granite. Ferro-magnesian minerals destroyed in many sections. Some slight kaolinization to feldspars in places. Some silicification and few small (1/2") blebs & stringers cherty, blue quartz in section 187-198, and very narrow, white, barren quartz stringers in places. One, 1/8", streak galena in fracture at 215.5'. Very little mineral, except for occasional speck py & arsenopyrite. Section 195'-198' is 60% lost due to core grinding.					1364	180	190	TR .06
						1365	190	200	TR .02
						1366	200	210	TR .08
						1367	210	220	TR .12
						1368	220	230	TR .24
						1369	230	240	TR .08
						1370	240	250	TR .10
						1371	250	260	TR .06
						1372	260	270	.01 .05
	187.7-190.0 Sil. granite with few 1/2" blebs blue cherty quartz. Very little min.	1109	TR	.24					
	191.9-193.0 Sil. granite with few small blebs blue cherty quartz. Very little min.	1110	TR	.40					
	198.0-199.2 7% blue cherty quartz strgrs in sil. granite. Very little min.	1111	.02	.10					
	199.2-200.5 Few tiny, white, barren quartz strgrs in sil. granite	1112	TR	.32					

175-230 - quite highly altered - could be fault or fractured altered zone - Space Pb S, FeS.

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LOG BY A.W.

DD-21

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~~MCKENZIE RED LAKE GOLD MINES LTD.~~

DIAMOND DRILL CORE LOG

PEERLESS MINE

COLLAR CO-ORDINATES Location 109 DR E Section

LAT DEP HOLE NO. 28 TOTAL DEPTH

ELEVATION SHEET NO. 3 FT. RECOVERED

AZIMUTH DIP DATE BEGUN % RECOVERY

HOR. VERT DATE FINISHED SIZE BIT

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~VALUE~~ OZ. AG PER TON	AVGS
187.0 / 238.0	Continued.				
	215.2 - 215.8 Lightly sil. granite with one galena filled fracture (⅛")	1113	TR	.22	
	227.0 - 228.0 Few tiny, barren quartz stngrs in sil. granite. Very little min.	1114	TR	TR	
	233.6 - 234.0 ½" calcite & quartz stngr. Sparse py.	1115	TR	.10	
238.0 / 288.0	Grayish-pink, fresh granite. Some fracturing at 50°				
288.0 / 357.0	Grayish-pink, fresh granite with occasional small patch light alteration associated with few fractures at 70° & 45°. Very little mineral.				
357.0 / 407.0	Light gray, lightly altered granite with numerous short sections fresh granite. F.M. minerals 30% chloritized. Occasional fracture at 45° Very little mineral				
	396.0 - 397.5 Lightly silicified granite with few short blue glass quartz Very sparse py. & arsen. Trace galena in fractures.	1116	TR	.12	
407.0 / 414.5	Light gray, well altered granite. F.M. minerals 60% destroyed. Fairly well silicified 2% quartz in tiny stringers along irregular fractures. Very sparse fine py diss.				

SLUDGES			
SAMP.NO.	FROM	OZ.AU	~~VALUE~~ OZ. AG
1373	270	280	TR .04
1374	280	290	TR .06
1375	290	300	
1376	300	310	TR .04
1378	310	320	TR .12
1379	320	330	TR .12
1380	330	340	TR .12
N.S.	340	350	
1382	350	360	TR .16
1383	360	370	TR .22
1384	370	380	TR .14
1385	380	390	TR .16
1386	390	400	TR .16
1387	400	410	TR .10
1388	410	420	TR .22

LOG BY A.W.

DD-21

LION NICKEL MINES OF CANADA LTD

~~McKENZIE RED LAKE GOLD MINES LTD.~~

DIAMOND DRILL CORE LOG

COLLAR CO-ORDINATES Location PEERLESS MINE 109 DR. E Section

LAT DEP HOLE NO. 28 TOTAL DEPTH

ELEVATION SHEET NO. 4 FT. RECOVERED

AZIMUTH DIP DATE BEGUN % RECOVERY

HOR. VERT DATE FINISHED SIZE BIT

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~VALUE~~ OZ AU PER TON	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	VALUE
407.0	Continued.								
414.5	407.0 - 410.0 } Lightly sil.	1117	TR	.52		1389	420	430	
	410.0 - 412.0 } granite. Sparse	1118	TR	.06					
	412.0 - 414.5 } fine pyrite	1119	.005	.04		1390	430	440	TR. 2
414.5	Grey, lightly altered								
436.5	granite with sections					1391	440	450	
	fresh granite.								
	Core is badly broken up					1392	450	460	TR. 1
	in following sections:								
	414.5 - 416.0								
	419.5 - 421.0 - 20% lost (Ground Core)								
	425.0 - 426.0 - 20% lost G.C.								
	427.0 - 436.0 - 40% lost G.C. — Fault w gouge. Major w gouge.								
436.5	Light grey, well altered								
448.5	granite. 50% ferro-magn.								
	minerals destroyed. Feldspar								
	xtals blurred. 1% blue								
	grey, barren quartz in 1/8"								
	stringers at 60°-70°. Light								
	sil. in vicinity of strgrs.								
	Very little mineralization								
	except for occasional small								
	bleb py and patchs very								
	sparse fine diss py & arsenic.								
	437.4 - 438.5 3% quartz strgrs	1120	TR	TR					
	Few small blebs py.								
	442.0 - 443.4 2% quartz strgrs	1121	TR	TR					
	Sparse fine py.								
	445.0 - 446.0 5% quartz strgrs	1122	TR	TR					
	Sparse fine py								

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LION NICKEL MINES OF CANADA LTD

DD-21

McKENZIE RED LAKE GOLD MINES LTD.

DIAMOND DRILL CORE LOG

PEERLESS MINE

COLLAR CO-ORDINATES Location 109 DR. E Section

LAT DEP HOLE NO. 28 TOTAL DEPTH

ELEVATION SHEET NO. 5 FT. RECOVERED

AZIMUTH DIP DATE BEGUN % RECOVERY

HOR. VERT DATE FINISHED SIZE BIT

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~VALUE~~ OZ. AG PER TON	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	VALUE
448.5 / 468.6	Grey granite. Very lightly altered. F.M. minerals chloritized. Few fractures 45°-70°					1393	460	470	005 .06
						1394	470	480	TR .0
468.6 / 476.4	Fairly well altered, cream-coloured granite. F.M. minerals 60% destroyed in places & some kaolinization to feldspars. 1% grey-white, barren quartz strgrs at 60°. Very little mineral.					1395	480	490	TR .10
						1396	490	498	TR .10
	469.1-471.5 5% quartz strgrs. Sparse fine py.	1023	TR	.10					
		Well silicified							
476.4 / 498.0	Grey granite. Lightly altered. Very little fracturing or mineralization. Following sections badly broken up & some core ground. 487.0-495.0 20% lost 495.0-498.0 60% lost.		475-	mylonite strgrs					
	476.5-477.4 - Sil granite with 5% quartz strgrs. Very little min.	1024	TR	.08					
498.0	End of Hole								

AWPL

LOG BY A.W.

LION NICKEL MINES OF CANADA LTD
~~MCKENZIE RED LAKE GOLD MINES LTD~~.

DD-21

DIAMOND DRILL CORE LOG

09113

PEERLESS MINE

COLLAR CO-ORDINATES — Location 109 DE. E — Section 1300

LAT 11013.22 DEP 2610.32 — HOLE NO. 29 — TOTAL DEPTH 180

ELEVATION 528.93 — SHEET NO. 1 — FT. RECOVERED

AZIMUTH N 68°40'E DIP +92°55' — DATE BEGUN July 2/68 — % RECOVERY

HOR. VERT — DATE FINISHED July 5/68 — SIZE BIT AQ

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	OZ. Ag VALUE PER TON	AVGS
0 / 31.5	Gray granite. Very little alteration & few fractures at 45°	Barren			
31.5 / 35.0	Greyish-white, moderately altered granite. Few fractures with tiny quartz stringers. Few blebs py in stringers & sparse fine py and arsenopyrite in granite.				
	31.5-32.5 2% quartz 1/2% py.	1125	TR	.08	
	32.0-34.5 1% quartz sparse py.	1126	TR	.06	
35.0 / 62.0	Gray granite. Similar to previous, but with few patches light to moderately altered granite. Very little fracturing.				
	93.0-94.0 5% quartz 1% py.	1127	TR	.08	
62.0 / 63.7	Dark gray, siliceous, fine grained material. Few tiny quartz stringers in irregular fractures. Traces py & arsenopyrite				
	62.0-63.7	1128	TR	.08	
63.7 / 72.1	Light grey, lightly altered granite. Few fractures at 90°. Minor faults at set fractures				

SLUDGES			
SAMP.NO.	FROM	OZ.AU	VALUE Au Ag.
1197	0	10	TR .12
1198	10	20	TR .24
1199	20	30	TR .18
1200	30	40	TR .16
1201	40	50	TR .08
1202	50	60	TR .06
1203	60	70	TR .04

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LION NICKEL MINES OF CANADA LTD
~~McKENZIE RED LAKE GOLD MINES LTD.~~

DD-21

DIAMOND DRILL CORE LOG

RECKLESS MINE

COLLAR CO-ORDINATES Location 109 Dr. E Section

LAT DEP HOLE NO. 29 TOTAL DEPTH

ELEVATION SHEET NO. 2 FT. RECOVERED

AZIMUTH DIP DATE BEGUN % RECOVERY

HOR. VERT DATE FINISHED SIZE BIT

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~OZ. Ag~~ ~~VALUE~~ PER TON	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	~~VALUE~~ Au Ag
72.1 / 73.0	Wall altered, cream coloured granite. F.M. minerals destroyed & some kaolinization to feldspars. Light Sil. Fair fracturing at 70° & 80° with few white & blue quartz stringers. Few small blebs py along fractures. Very light py & arsen diss. in places.					1204	70	80	TR. 10
						1205	80	90	TR TR
						1206	90	100	TR. 26
	73.0 - 74.8 2% quartz 1% py, trace arsen	1129	TR	.10					
		Good looking section							
73.0 / 88.0	Grey granite. Traces pink feldspar. Very little alteration. Section 830' to 88.0 broken up and 60% lost due to grinding								
88.0 / 96.8	Fairly well altered granite. Considerable silicification in places. Few fragments blue chalky quartz. Traces py in granite. Entire section is badly broken up and considerable 80% core ground								
	88.0 - 93.0 60% core lost	1130	TR	.08					
	Sil granite with 2 fragments blue quartz. Very little mineral								
	93.0 - 96.8 65% core lost Few tiny quartz stgrs Traces py & arsen	1131							
	Continued								

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LOG BY

LION NICKEL MINES OF CANADA LTD

DD-21

McKENZIE RED LAKE GOLD MINES LTD.

DIAMOND DRILL CORE LOG

PEERLESS MINE

COLLAR CO-ORDINATES — Location 109 Dr. E — Section

LAT — DEP — HOLE NO. 29 — TOTAL DEPTH

ELEVATION — SHEET NO. 3 — FT. RECOVERED

AZIMUTH — DIP — DATE BEGUN — % RECOVERY

HOR. — VERT — DATE FINISHED — SIZE BIT

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~VALUE~~ OZ. AG PER TON	AVGS
96.8 / 122.0	Wall altered, gray granite. 80% of F.M. minerals destroyed & feldspars blurred. Patchy fair silicification throughout. Fair fracturing at irregular angles. Fragments blue chalky quartz at 89° (½"), 92° (1½"), 97° (½"), 98° (½") 99° (3"). Patchy very light fine diss py throughout. Core badly broken up and considerable lost due to grinding in following sections:				
	97.0 - 104.0 - 60% lost				
	104.0 - 108.0 50% lost				
	108.0 111.0 0% lost				
	111.0 - 117.0 95% lost				
	117.0 121.0 5% lost				
	Samples:				
	96.8 - 97.4	1132	TR	.34	
	98.2 99.4	1133	TR	.22	
	99.4 100.0	1134	TR	.12	
	111.0 113.0	1135	TR	~~.22~~ TR	
	113.0 117.0	1136	TR	.12	
	119.0 - 119.8	1137	TR	.06	
	119.8 121.0	1138	TR	.02	
	121.0 121.8	1139	TR	.06	
122.0 / 137.0	Wall altered, gray, granite. Alteration decreasing from previous section. Fair fracturing at 45° to 80° Few tiny quartz stringers. Very little mineral.				

SLUDGES			
SAMP.NO.	FROM	OZ.AU	VALUE
			Au · Ag.
1206	90	100	TR · 26
1207	100	110	TR · 12
1208	110	120	TR · 16
1209	120	130	TR TR
1210	130	140	TR · 14

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LOG BY

DD-21

LION NICKEL MINES OF CANADA LTD
McKENZIE RED LAKE GOLD MINES LTD.

DIAMOND DRILL CORE LOG

Location Peerless Mine 109 Dr. E Section

COLLAR CO-ORDINATES

LAT DEP HOLE NO. 29 TOTAL DEPTH

ELEVATION SHEET NO. 9 FT. RECOVERED

AZIMUTH DIP DATE BEGUN % RECOVERY

HOR. VERT DATE FINISHED SIZE BIT

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~OZ AG. VALUE~~ PER TON	AVGS
122.0 / 137.0	Continued. 123.0 - 124.5 5% quartz	1140	TR	TR	
	Core badly broken up Very little min.				
137.0 / 158.0	Gray granite. Light alteration in places.				
	Core broken up and muddy in following sections.	140 - 142 - Fault			
	137.0 - 137.5				
	140.0 142.0				
	145.0 147.0				
	149.0 150.0				
158.0 / 198.0	Fresh granite. Very little alteration.				
198	End of Hole.				

SLUDGES			
SAMP.NO.	FROM	OZ.AU	~~VALUE~~ Au. Ag.
1209	120	130	TR TR
1210	130	140	TR .14
1211	140	150	TR .14
1212	150	160	TR .18
1213	160	170	TR .04
1214	170	180	TR TR
1215	180	190	
1216	190	198	

LOG BY A. W.

AWPL

LION NICKEL MINES OF CANADA LTD [redacted]

DD-21

DIAMOND DRILL CORE LOG

09113

PEERLESS MINE

COLLAR CO-ORDINATES Location 109 DP. E Section

LAT 11011.48 DEP 9610.69 HOLE NO. 30 TOTAL DEPTH 555

ELEVATION 530.64 SHEET NO. 1 FT. RECOVERED

AZIMUTH S 62°58'E DIP +29°58' DATE BEGUN July 5/68 % RECOVERY

HOR. 478.90 VERT DATE FINISHED July 13/68 SIZE BIT AQ

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	OZ. Ag. PER TON	AVGS
0 / 17.0	Fresh granite. Very little alteration				
17.0 / 29.1	Light grey, fairly well altered granite. 50% F.M. minerals destroyed. Few fractures at 30°-45°. Very sparse fine diss py in places.				
29.1 / 52.5	Fresh granite.				
52.5 / 71.0	Grey, fairly well altered granite. 50% f.m. minerals destroyed. Few fractures at 40°-70°. Traces s.i. in places. Some scattered narrow white quartz stringers at angles along core.				
52.6 - 53.6	5% quartz stringers at 30°. 1% py + arsen.	1141	TR	.12	
55.3 - 56.9	5% quartz stringers at 20°. 3% py + trace arsen in stringers	1142	TR	.12	
56.9 - 58.5	½" white quartz stringer at 15°. Blebs pyrrhotite + py in quartz	1143	TR	.14	
60.5 - 61.5	½" white quartz stringer longitudinal to core with 3% pyrr + 2% py	1144	TR	.24	
62.0 - 63.0	¾" quartz at 5°. 2% pyr + 1% py	1145	TR	.22	
68.6 - 69.5	10% white quartz blebs. 10% py in quartz.	1146	TR	.20	

SLUDGES			
SAMP.NO.	FROM	OZ.AU	VALUE
			Au Ag.
1217	0	10	TR. 18
1218	10	20	TR TR
1219	20	30	TR. 20
1220	30	40	TR 20
1221	40	50	TR .16
1222	50	60	TR TR
1223	60	70	TR .14
1224	70	80	TR. 02

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LOG BY A. IN.

LION NICKEL MINES OF CANADA
[redacted]

DD-21

DIAMOND DRILL CORE LOG

PEERLESS MINE

COLLAR CO-ORDINATES Location 109 Dp. E Section

LAT DEP HOLE NO. 30 TOTAL DEPTH

ELEVATION SHEET NO. 2 FT. RECOVERED

AZIMUTH DIP DATE BEGUN % RECOVERY

HOR. VERT DATE FINISHED SIZE BIT

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~VALUE~~ PER TON AG.	AVGS
52.5	Continued				
76.0	69.5 - 71.0 5% quartz blebs	1147	.005	.18	
	containing 2%				
	arsene, 2% py				
	71.0 - 72.6 ½" quartz stge	1148	.005	.16	
	at 45°. 1% py				
	1% arsene in quartz.				
76.0	Gray, fairly well altered				
124.0	granite, similar to previous.				
	Fair silicification in places.				
	Few irregular fractures at				
	5° to 20°. F.M. minerals				
	60% destroyed. Very sparse				
	fine py diss in patches.				
	Trace galena. See notes in additional section				
	One ½" white calcite vein at				
	at 5° to core, containing				
	5% py + 1% arsene				
	87.3 - 89.9 Sil granite	1149	TR	.28	
	Sparse py + arsene				
	89.9 - 91.1 ½" calcite stge	1150	TR	.20	
	at 5° 5% py 1% asp.				
	91.1 - 94.0 Sil granite	1151	.005	.08	
	Sparse py				
	96.0 - 98.7 Sil. granite	1152	TR	.10	
	½% py.				
	103.0 - 106.0 Few blebs quartz	1153	TR	.14	
	Very little min				
	107.5 - 109.0 Few blebs quartz	1154	TR	TR	
	Very little min.				
	110.2 - 111.3 Sil granite	1155	TR	.04	
	2% py				
	½% arsene				

SLUDGES			
SAMP.NO.	FROM	OZ.AU	VALUE
			Au Ag.
1225	80	90	TR .28
1226	90	100	.01 .79
1227	100	110	TR .44
1228	110	120	TR .18
1229	120	130	TR .52

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LOG BY

LION NICKEL MINES OF CANADA LTD
MCKENZIE RED LAKE GOLDFIELDS LTD.

DD-21

DIAMOND DRILL CORE LOG

PEERLESS MINE

COLLAR CO-ORDINATES Location 109 DEP. E. Section

LAT DEP HOLE NO. 30 TOTAL DEPTH

ELEVATION SHEET NO. 3 FT. RECOVERED

AZIMUTH DIP DATE BEGUN % RECOVERY

HOR. VERT DATE FINISHED SIZE BIT

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~OZ. Ag VALUE~~ PER TON		AVGS
76.0 / 124.0	Continued. Considerable chloritization in section 103.0 - 107.0 Several black coated longitudinal fractures along core 104' to 114' Core badly broken up 103' to 124' and considerable core lost due to grinding as listed below. 114.0 - 121.0 - 30% lost 121.0 - 124.0 - 30% lost.					
124.0 / 141.5	Bluish gray granite. Light alteration. Prominent porphyritic feldspar xtals. F.M. minerals 50% destroyed & remaining 50% chloritized. Very little fracturing. Very sparse fine diss py. in places.					
141.5 / 151.6	Gray, moderately altered granite with some light sil. in places. Sparse, ~~light~~ fine py diss throughout. Core badly broken up in places and considerable rust along fractures.					
	145.0 - 146.0 Sil. granite	1156	Tr.		.06	
	Very sparse py. Trace arsen.					
	146.0 - 151.6 Sil. granite	1157	Tr.		.04	
	Very sparse py. Trace arsen.					

SLUDGES			
SAMP.NO.	FROM	OZ.AU	~~VALUE~~ Au Ag.
1230	130	140	TR. 18
1231	140	150	TR. 14
1232	150	160	TR. 14

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LION NICKEL MINES OF CANADA LIMITED

~~MCKENZIE RED LAKE GOLD MINES LTD.~~

DD-21

DIAMOND DRILL CORE LOG

PEERLESS MINE

COLLAR CO-ORDINATES **Location** 109 DRIFT E. **Section** _____

LAT _____ DEP _____ HOLE NO. 30 TOTAL DEPTH _____

ELEVATION _____ SHEET NO. 9 FT. RECOVERED _____

AZIMUTH _____ DIP _____ DATE BEGUN _____ % RECOVERY _____

HOR. _____ VERT _____ DATE FINISHED _____ SIZE BIT _____

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~VALUE~~ OZ. Ag. PER TON	AVGS
151.6	Similar to previous section				
175.0	with few sections showing				
	more severe alteration.				
	Feldspar xtals obliterated				
	in places. Very sparse				
	py in patches & trace				
	galena.				
	162.0 - 164.0 Sil. granite	1158	tr.	.22	
	Sparse py.				
	164.0 - 166.0 Sil. granite	1159	tr.	.08	
	5% quartz stringers.				
	Traces py.				
	167.6 - 171.0 Sil. granite	1160	.005	.10	
	5% quartz stringers				
	up to 1½" wide.				
	Fine diss py in				
	quartz.				
	157.5 - 158.0 Sil. granite	1161	.005	.24	
	Sparse py. Trace galena.				
175.0	Light grey, wall altered				
189.4	granite. F.M. minerals				
	30% destroyed & feldspar				
	xtals obliterated. Some				
	kaolinization in places				
189.4	Greyish, lightly altered				
273.0	granite. Traces fresh				
	granite in places. Some				
	chloritization to f.m. minerals.				
	Very little fracturing or				
	mineralization.				

SLUDGES			
SAMP.NO.	FROM	OZ.AU	~~VALUE~~
			Au Ag
1233	160	170	TR 1.6
1234	170	180	Tr
1235	180	190	Tr .04
1236	190	200	Tr. .04
1237	200	210	Tr .04
1238	210	220	Tr .04
1239	220	230	Tr. .06
1240	230	240	Tr .10
1241	240	250	Tr. .04
1242	250	260	Tr. .06
1243	260	270	Tr. .08

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LOG BY _____

LION NICKEL MINES OF CANADA LIMITED
McKENZIE RED LAKE GOLD MINES LTD.

DD-21

DIAMOND DRILL CORE LOG

PEERLESS MINE

COLLAR CO-ORDINATES Location 109 Dr. E Section

LAT DEP HOLE NO. 20 TOTAL DEPTH

ELEVATION SHEET NO. 5 FT. RECOVERED

AZIMUTH DIP DATE BEGUN % RECOVERY

HOR. VERT DATE FINISHED SIZE BIT

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	oz. Au VALUE PER TON	AVGS
273.0 / 279.1	Light grey, well altered granite. F.M minerals, feldspar, & quartz xtals destroyed. Few fractures at 45°.				
	Very little sil. or min.				
	276.9 - 277.4 Sil. granite	1162	Tr.	.16	
	1% py in blebs along fractures				
279.4 / 291.5	Grey granite. Light alteration				
291.5 / 294.1	Light grey, well altered granite. xtals obliterated				
	Little fracturing at 20°.				
	Very little sil. or min.				
294.1 / 320.0	Grey, lightly altered granite.				
	Very little fracturing or				
	silicification except for				
	section 318 - 322 where				
	there is traces of sil.				
	galena & chalco				
	317.0 - 318.4 5/8" white quartz vuggy				
	veinlet at 5°	1170	Tr.	.26	
	Very sparse py in				
	quartz and granite.				
320.0 / 346.0	Light grey, moderately altered granite. Few irregular fractures.				
	Very little sil. or mineral				
346.0 / 391.0	Very sparsely altered granite.				
	Cream coloured, fine grained.				
	Original crystals destroyed				
	Light fracturing at very irregular				
	angles with major axis along core				
	From 389 - 392' few quartz stringers in fractures.				

SLUDGES			
SAMP.NO.	FROM		VALUE
			Au, Ag
1244	270	280	Tr. .08
1245	280	290	Tr Tr
1246	290	300	Tr Tr
1247	300	310	Tr Tr
1248	310	320	Tr Tr
N.S.	320	330	" "
1249	330	340	" "
1250	340	350	" "
1251	350	360	Tr. .10
1252	360	370	Tr. .08
N.S.	370	380	
1255	380	400	Tr. .10

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LOG BY

LION NICKEL MINES OF CANADA LTD

DD-21

~~McKENZIE RED LAKE GOLD MINES LTD.~~

DIAMOND DRILL CORE LOG

COLLAR CO-ORDINATES Location PEERLESS MINE 109 DR. E Section

LAT DEP HOLE NO. 30 TOTAL DEPTH

ELEVATION SHEET NO. 6 FT. RECOVERED

AZIMUTH DIP DATE BEGUN % RECOVERY

HOR. VERT DATE FINISHED SIZE BIT

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~VALUE~~ OZ. AG PER TON	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	~~VALUE~~ OZ. AG.
346.0 ~~[illegible]~~	Continued								
391.0	Very little silicification.					1256	400	410	Tr. .08
	Few small patchs sparse								
	diss. py. Traces galena at 375'					1257	410	420	Tr. .10
	368.6 - 370.0 Light sil. 1% quartz stringers Sparse fine diss. py	1171	Tr.	.40		1258	420	430	Tr. .10
	370.0 - 371.0 Light sil. 5% quartz in fractures Light diss py & arseno	1172	Tr.	Tr.		1259	430	440	Tr. .08
	371.0 - 373.5 Light sil. Few tiny quartz stngrs Sparse py	1173	Tr.	.12		1260	440	450	Tr. .04
391.0	Moderately altered granite.								
411.7	Very few fractures except								
	section 403-410 Very little								
	sil. or mineral								
	404.5 - 406.0 Barren quartz stringer at 5° Few blebs py in granite	1174	Tr.	.12					
411.7	Grey, fresh granite. Very								
428.4	few fractures								
428.4	Grey, fresh granite. Few								
440.3	patchs light alteration.								
	Occasional fracture at 70° + 45°								
	429.0 - 429.7 1/8" fracture	1175	Tr.	.08					
	at 15° with galena.								
440.3	Light grey, moderately altered								
455.0	granite F.M. minerals 80%								
	destroyed Traces fine py								
	and arseno diss. throughout								
	Few fractures with tiny, barren								
	quartz stringers at 5° to 10°								
	445.4 - 448.0 Sil granite	1176	Tr.	.06					
	1% py. Traces arseno								

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LOG BY

DD-21

LION NICKEL MINES OF CANADA LTD

~~McKENZIE RED LAKE GOLD MINES LTD.~~

DIAMOND DRILL CORE LOG

Fearless mine

COLLAR CO-ORDINATES — Location 109 DR E — Section

LAT — DEP — HOLE NO. 30 — TOTAL DEPTH

ELEVATION — SHEET NO. 7 — FT. RECOVERED

AZIMUTH — DIP — DATE BEGUN — % RECOVERY

HOR. — VERT — DATE FINISHED — SIZE BIT

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~OZ AU~~ VALUE PER TON	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	VALUE
									Au Ag
440.3	Continued								
455.0	448.0 - 450.6 Sil. granite.	1177	Tr.	.10		1261	450	460	Tr. .48
	½% py. Several & moly. blebs galena. Traces					1262	460	470	Tr. .36
	arsano & sphalerite								
	~~455.0 - 455.6 Sil. granite~~	~~1178~~				~~1261 450 460~~			
	~~1% pyrite~~					~~1262 460 470~~			
455.0	Vein zone. Wall altered								
461.0	granite with numerous blue								
	quartz filled fractures at								
	very irregular angles. Very								
	well silicified in places.								
	Considerable mineralization								
	throughout, consisting of								
	pyrite cubes, nests of fine								
	arsenopyrite, and traces								
	galena & sphalerite.								
	455.0 - 455.6 Sil. granite	1178	TR	.22					
	1% pyrite								
	455.6 - 457.9 Sil. granite	1179	.01	.35					
	with 25% bluish quartz								
	in irregular fractures								
	2% fine arsenopyrite								
	2% cube pyrite &								
	traces galena & sphalerite.								
VEIN	457.9 - 459.3 Sil. granite with quartz stringers	1180	TR	.06					
	few small along fractures								
	parallel to core. ½% fine								
	arsano. ½% cube py.								
	459.3 - 461.0 Sil. granite with	1181	.005	.57					
	20% blue-black quartz								
	stringers in irregular fractures.								
	Light fine py & arsano								
	throughout								

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LIOH NICKEL MINES OF CANADA LTD
~~MACKENZIE RED LAKE GOLD MINES LTD.~~

DD-21

DIAMOND DRILL CORE LOG

PEERLESS MINE

COLLAR CO-ORDINATES
Location 109 OR. E Section
LAT DEP HOLE NO. 30 TOTAL DEPTH
ELEVATION SHEET NO. 8 FT. RECOVERED
AZIMUTH DIP DATE BEGUN % RECOVERY
HOR. VERT DATE FINISHED SIZE BIT

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~OZ. Ag VALUE~~ PER TON	AVGS
461.0	Well altered, highly sil. granite				
463.0	Few fractures with blebs of pyrite				
	and traces arseno & galena.				
	461.0 - 463.0	1182	Tr.	.36	
463.0	Grey granite. Light alteration				
544.0	throughout. Considerable				
	chloritic material 482 - 491.5				
	Very little fracturing. Few				
	patches fresh granite.				
	Few small blebs pyrite				
	495 - 500				
544.0	Fresh, pink granite.				
553.0					
553.0	End of Hole				

SLUDGES			
SAMP.NO.	FROM	OZ.AU	~~VALUE~~ Au Ag.
1263	470	480	.005 .20
1264	480	490	Tr Tr
1265	490	500	Tr. .16
1266	500	510	.005 .12
1267	510	520	Tr. .08
N.S.	520	520	
1269	530	540	.01 Tr.
1270	540	553	Tr .02

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LOG BY

+25°

LION NICKEL MINES OF CANADA LTD
~~MCKENZIE RED LAKE GOLD MINES LTD.~~

DD-2L

DIAMOND DRILL CORE LOG

081113

Peerless mine

COLLAR CO-ORDINATES Location 109 SE. 6 Section

LAT 110+12.88 DEP 2511.02 HOLE NO. 71 TOTAL DEPTH 537

ELEVATION 530.22 SHEET NO. 1 FT. RECOVERED

AZIMUTH S 88°05'E DIP -29°36 DATE BEGUN July 19/68 % RECOVERY

HOR. 268.13 VERT 223.40 DATE FINISHED July 19/68 SIZE BIT "AQ"

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~VALUE~~ OZ. Ag PER TON	AVGS
0 / 47.5	Gray granite. Light alteration with few small patchs moderate alteration Few fractures at 60°, 45°, & 70°				
	Section from 24.3 - 25.8 is fine grained, gray, Sil. seams material.				
47.5 / 62.0	Moderately altered, light gray granite.				
	48.7 - 49.8 Sil. granite 20% white quartz blebs Large blebs py in quartz & light arsano along fractures.	1183	Tr.	.02	
62.0 / 72.0	Well altered, light gray granite. Similar to previous Section, but with increasing alteration. Few fractures at 45° 70°				
	62.5 - 64.6 Sil. granite 1% py in fractures Trace arsano + galena.	1184	Tr.	.02	
72.0 / 84.0	Severely altered granite All crystals destroyed. Few silicification in places and some irregular fractures.				
	Occasional small blebs py and trace arsano + galena				
	Core broken up and 20% lost in section 76.5 - 84.0				
	72.9 - 79.1 Sil. granite with few tiny quartz stgrs	1185	Tr	Tr	
84.0 / 94.0	Bluish-gray, moderately altered granite with prominent feldspar phenocrysts. Ferro-m. minerals destroyed				

SLUDGES			
SAMP.NO.	FROM	OZ.AU	~~VALUE~~ OZ. Ag
1270	0	20	.005 .02
1272	20	30	Tr. .04
1273	30	40	Tr Tr
1274	40	50	Tr Tr.
1275	50	60	Tr Tr
1276	60	70	Tr. .14
1277	70	80	Tr. .02

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LOG BY A. W. L.

DD-21

KION MINES MINES OF CANADA LIMITED

McKENZIE RED LAKE GOLD MINES LTD.

DIAMOND DRILL CORE LOG

Peerless Mine

COLLAR CO-ORDINATES Location 109 DE. E Section

LAT DEP HOLE NO. 21 TOTAL DEPTH

ELEVATION SHEET NO. 2 FT. RECOVERED

AZIMUTH DIP DATE BEGUN % RECOVERY

HOR. VERT DATE FINISHED SIZE BIT

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	OZ. AG VALUES PER TON		AVGS	SLUDGES			
							SAMP.NO.	FROM	OZ.AU	VALUE
84.0	Silicified in places, and									Au, Ag.
91.0	few fragments cherty, blue						1278	80	90	Tr. .02
	quartz. Core badly broken									
	up and some lost due to						1279	90	100	Tr. Tr.
	grinding. Probable fault									
	zone 86.7 - 90.0'						1280	100	110	Tr Tr
	84.0-86.0 - 25% core lost									
	86.0 - 91.0 - 20% core lost						1281	110	120	Tr Tr
	84.0-86.0 Fairly well sil.	1186	Tr		Tr					
	granite. Sparse py						1282	120	130	Tr Tr
	87.7 - 90.5 Sil granite &	1187	Tr.		Tr.					
	10% cherty blue quartz						1283	130	140	Tr Tr
	Very little mineral									
							1284	140	150	Tr .12
91.0	Continuation of blush gray,									
136.0	moderately altered granite									
	with prominent feldspars.									
	Few fractures in places									
	at 30° - 70°. Very little									
	Sil. or mineral. Core									
	badly broken up in following									
	sections: 91.0 to 92.0, 97-99,									
	102-103, 107-107.6, 131.5-132,									
	& 139.5 - 135.5'									
	105.6 - 106.8 Sil granite	1188	Tr.		.50					
	2" blue-gray, cherty									
	quartz stringers with dugs									
	Very little min.									
136.0	Gray granite. Light									
151.7	alteration. Traces frost									
	granite. Very little									
	sil. or mineral									

AWPL

LOG BY

Lion Nickel Mines of Canada –
~~MCKENZIE RED LAKE GOLD MINES LTD.~~

BD-21

DIAMOND DRILL CORE LOG

Peerless Mine

COLLAR CO-ORDINATES — Location 109 Dr. E. — Section

LAT ____ DEP ____ HOLE NO. 31 — TOTAL DEPTH

ELEVATION ____ SHEET NO. 3 — FT. RECOVERED

AZIMUTH ____ DIP ____ DATE BEGUN ____ % RECOVERY

HOR. ____ VERT ____ DATE FINISHED ____ SIZE BIT

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~VALUE~~ PER TON		AVGS
				Au	Ag	
151.7	Fresh granite			03	Ag	
175.0						
175.0	Grey, lightly altered granite					
195.4	Few fractures at 50°-65°					
	Slight sil. & min. 190.4-192					
	Very little elsewhere					
	190.4-192.0 Slightly sil.	1109	Tr.		.02	
	granite. Some py.					
195.4	Light grey, moderately					
200.5	altered granite. Considerable					
	irregular fractures on plane.					
	Tiny quartz stages in some					
	fractures. Light silicification.					
	Occasional small blob py.					
200.5	Fresh granite. Small					
227.5	pockets light alteration					
	No mineral or sil. Some					
	Breccia & fracturing 210.8-211.6 – Possible fault.					
227.5	Very well altered, fine grained,					
232.0	cream coloured granite.					
	All original crystals destroyed					
	Few fractures at 45°. No					
	sil., & only traces fine py					
	in places.					
232.0	Lightly altered granite					
239.2	Fresh in small pockets					
239.2	Moderately altered granite.					
242.0	Fair sil in places. Very					
	little mineral. Badly					
	broken up and rusty along					
	fractures. Possible fault.					
	240.4-242.0 Well sil. granite	1190				
	many rusty fractures					
	Very little mineral.					

SLUDGES			
SAMP.NO.	FROM	OZ.AU	~~VALUE~~ Au Ag
1285	150	160	TR .0
1286	160	170	TR TR
1287	170	180	TR .0
1288	180	190	TR .0
1289	190	200	TR .2
1290	200	210	TR .0
1291	210	220	TR TR
1292	220	230	TR TR
N.S.	230	240	
1293	240	250	TR TR

LOG BY T. W

DD-21

LION NICKEL MINES OF CANADA LTD

~~McKENZIE RED LAKE GOLD MINES LTD.~~

DIAMOND DRILL CORE LOG

COLLAR CO-ORDINATES

Location PEERLESS MINE 109 DR. E.

Section

LAT DEP HOLE NO. 31 TOTAL DEPTH

ELEVATION SHEET NO. 4 FT. RECOVERED

AZIMUTH DIP DATE BEGUN % RECOVERY

HOR. VERT DATE FINISHED SIZE BIT

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~VALUE~~ PER TON	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	~~VALUE~~ Au	Ag
242.0 / 252.0	Moderately altered granite with many irregular fractures					1294	250	260	TR	TR
	Some tiny (1/16") dark quartz stringers along fractures.					1295	260	270	TR	TR
	Fair sil. in places. Traces very sparse fine py.					1296	270	280	TR	.06
252.0 / 265.0	Continuation of moderately altered granite. Fewer fractures than previous section.					1297	280	290	TR	TR
	Few tiny quartz strgrs with py along some fractures.					1298	290	300	TR	TR
	Very sparse fine py diss in granite in places. Traces galena in fractures.					1299	300	310	TR	TR
						0001	310	320	TR	.50
	249.1 - 252.3 - Few tiny quartz strgrs in granite Small blebs py in quartz	1191	TR	TR		0002	320	330	TR	.0[illegible]
	254.3 - 257.5 - Few tiny quartz strgrs in granite	1192	TR	TR		0003	330	340	.005	.0[illegible]
265.0 / 281.0	Grey granite. Very light alteration. Occasional fracture at 30°-40°. Very little sil. or mineral					0004	340	350	TR	.20
	266.0 - 267.4 1" Blue grey quartz strgr at 30°	1193	TR	TR						
281.0 / 298.0	Mainly fresh granite with some light alteration in places									
298.0 / 320.0	Mainly lightly altered granite with several patchs moderately altered. Occasional fracture at 30°. Very little sil. Traces py & galena									

LOG BY

AWPL

DD-21

LION NICKEL MINES OF CANADA LIMITED
[redacted].

DIAMOND DRILL CORE LOG

COLLAR CO-ORDINATES Location PEERLESS ADIT 109 DR. E Section

LAT _____ DEP _____ HOLE NO. 31 TOTAL DEPTH _____

ELEVATION _____ SHEET NO. 5 FT. RECOVERED _____

AZIMUTH _____ DIP _____ DATE BEGUN _____ % RECOVERY _____

HOR. _____ VERT _____ DATE FINISHED _____ SIZE BIT _____

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	VALUE PER TON	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	~~VALUE~~ Au Ag.
320.0 / 330.0	Mainly well altered, cream coloured, granite with light sil in places. Almost all original crystals destroyed					0003	330	340	.005 .04
						0004	340	350	TR .20
	Considerable fracturing from 30° to longitudinal to core.					0005	350	360	.005 TR
	Tiny quartz stgrs in some fractures. Few blebs py					0006	360	370	.005 TR
	and ½% diss. cube py in section 321.0-323.0, very					0007	370	380	TR .02
	sparse, fine py in rest of section. Section 320.0					0008	380	390	TR TR
	to 323 is 50% lost by grinding								
	321.0-323.0 50% core lost	1194							
	Sil. granite. ½% cube py. Traces arseno								
330.0 / 373.3	Lightly altered, grey granite. Some fracturing 342-364, at 30° to longitudinal. Very little sil. or mineral								
	341.2-343.0 - 50% core lost	1195							
	10% dark blue quartz in fractures. Light py & trace sphalerite								
373.3 / 377.1	Fine grained, dark grey, siliceous rhyolitic material. Contact angle 10°								
377.1 / 390.0	Grey, moderately altered granite. Very little fracturing. Traces sil. in places. Occasional very small bleb py and traces fine diss py.								
	~~3[illegible]~~ ~~Sil granite~~ ~~Traces py arseno. [illegible]~~								

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LOG BY _____

DD-2C

LION NICKEL MINES OF CANADA LIMITED

~~McKENZIE RED LAKE GOLD MINES LTD.~~

DIAMOND DRILL CORE LOG

COLLAR CO-ORDINATES Location PEERLESS MINE 109 DR. E Section

LAT DEP HOLE NO. 31 TOTAL DEPTH

ELEVATION SHEET NO. 6 FT. RECOVERED

AZIMUTH DIP DATE BEGUN % RECOVERY

HOR. VERT DATE FINISHED SIZE BIT

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~VALUE~~ PER TON Oz	Ag	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	~~VALUE~~ Au	Ag
390.0 / 410.5	Mainly well altered, light grey granite. Few fractures 30°-45°. Fair silicification in places. Occasional small blebs py & some sparse fine py & arseno diss in places						0009	390	400	TR	TR
							0010	400	410	TR	TR
							0011	410	420	TR	.02
	394.0-394.6 Grey, fine grained rhyolitic material. Contact at 45°						0012	420	430	TR	TR
	390.0-392.6 Well sil granite Sparse py. Traces arseno + galena	1196	TR		.06		0014	430	440	TR	.04
	396.0-397.6 Well sil granite Few tiny quartz stringers Sparse py + arseno	1197	TR		.04		0015	440	450	TR	TR
	397.6-401.0 Well sil granite Few tiny quartz stringers Very light cube py and traces arseno and galena	1198	TR		.06		0016	450	460	.005	.04
410.5 / 441.0	Well altered, bluish grey granite. Prominent feldspar phenocrysts with edges blurred. Very little fracturing. Few small patchs light sil. Traces fine diss py & very few small blebs galena.										
441.0 / 456.5	Very well altered, cream coloured granite. All crystals destroyed. Few irregular fractures, some of which have small barren quartz stringers. Very sparse fine py in places. Fair sil.										
	445.0-447.7 Well sil granite Traces fine py + arseno	0703	TR		.06						
	451.7-454.7 Well sil granite Very little mineral	0704									

LOG BY A.W.

AWPL

DD-21

LION NICKEL MINES OF CANADA LIMITED
McKENZIE RED LAKE GOLD MINES LTD.

DIAMOND DRILL CORE LOG

Peerless mine

COLLAR CO-ORDINATES Location 109 W. E Section

LAT DEP HOLE NO. 71 TOTAL DEPTH

ELEVATION SHEET NO. 7 FT. RECOVERED

AZIMUTH DIP DATE BEGUN % RECOVERY

HOR. VERT DATE FINISHED SIZE BIT

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~MINS~~ PER TON	AVGS
				OZ Ag	
456.5 / 472.3	Fairly fresh granite. Very slight alteration in few places.				
	Few very irregular fractures from 10° to 80°. Fracturing increasing after 469 to Breccia 471.0 to 472.0. Breccia consists of grey, fine grained, rhyolitic fragments in chloritic matrix				
472.3 / 476.0	Moderately altered granite. Few small blebs white, barren quartz. Slight sil. Very little mineral.				
	472.5 - 474.0 Altered granite Few blebs barren quartz	0705	TR	.10	
476.0 / 482.0	Well altered, cream coloured granite. Crystals destroyed. Considerable broken core Fair sil. throughout. Traces py + arsen in fractures & diss.				
	476.0 - 479.0 Sil. granite Few small blebs py traces arsenopyrite	0706	TR	.10	
	479.0 - 481.0 Sil. granite Some small quartz stringers Very little mineral	0707	.005	.10	
	481.0 484.0 Poorly sil. granite Traces py, arsen, pyrrhotite	0708	TR	.14	
482.0 / 497.6	Continuation of well altered granite, but with considerable chloritic alteration. Light fracturing from 80°-45° in places Fair sil. Light fine py + arsen in places and few blebs				

SLUDGES			
SAMP.NO.	FROM	OZ.AU	~~VALUE~~ Au Ag
0017	460	470	TR .04
0018	470	480	.005 .02
0019	480	490	TR TR
0020	490	500	TR .04

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KION NICKEL MINES OF CANADA LTD

McKENZIE RED LAKE GOLD MINES LTD.

DIAMOND DRILL CORE LOG

PEERLESS MINE

COLLAR CO-ORDINATES — Location 109 Dp. 6 — Section

LAT — DEP — HOLE NO. 31 — TOTAL DEPTH

ELEVATION — SHEET NO. 8 — FT. RECOVERED

AZIMUTH — DIP — DATE BEGUN — % RECOVERY

HOR. — VERT — DATE FINISHED — SIZE BIT

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~WEIGHT~~ PER TON	AVGS
482.0	Continued			Hg	
497.6	467.0 - 488.5' Light sil. granite	0709	TR	.14	
	Traces py + arsen				
	488.5 - 491.0 Light sil granite				
	1/2% py in blebs	0710	TR	.16	
	Traces arsenopyrite				
	491.0 - 494.0 Altered granite				
	Poor mineralization				
	50% core lost				
	494.0 - 497.6 Altered granite	0712	TR	.02	
	Very little mineral				
497.6	Fresh granite. Some				
537.0	chloritization to f.m. minerals				
	otherwise very little alteration				
	or sil.				
	514.7 - 516.7 Altered granite	0713	TR	.40	
	Two 1/2" white quartz				
	stringers at 5° to core				
	Few blebs galena + mally				
	in quartz.				
537.0	End of Hole				

SLUDGES			
SAMP.NO.	FROM	OZ.AU	~~VALUE~~
0021	500	510	Au A —
0022	510	530	TR
0023	530	537	TR

AWPL

LOG BY

LION NICKEL MINES OF CANADA L.
~~MCKENZIE RED LAKE GOLD MINES LTD.~~ 091113

DD-21

DIAMOND DRILL CORE LOG

PEERLESS MINE

COLLAR CO-ORDINATES Location 109 DP. E Section A 500

LAT 10902.61 DEP 2010.12 HOLE NO. 35 TOTAL DEPTH 126

ELEVATION 524.01 SHEET NO. 1 FT. RECOVERED

AZIMUTH N 21°50'W DIP -20°09' DATE BEGUN July 20/68 % RECOVERY

HOR. VERT DATE FINISHED July 21/68 SIZE BIT A0

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~VALUE~~ PER TON	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	~~VALUE~~
				OZ Ag					Au Ag
0 / 33.0	Gray granite. Slight alteration throughout and few small patches with moderate alt, and slight sil & sparse fine diss py. Occasional tiny (1/8") barren quartz stringer in few fractures at 20° to 40°.					0024	30	40	.005 .02
						0025	40	50	TR .88
						0026	50	60	.01 1.71
33.0 / 61.0	Light gray, moderately altered granite. F.M. minerals largely destroyed, traces kaolinization. Considerable, very irregular fractures 5° to 70° with 1/8" to 1/2" gray-white quartz stringers along some few patches fair sil, and light to sparse fine py in places					0027	60	70	.005 .52
						0028	70	80	.005 .40
						0029	100	110	TR .18
					NS				
	39.1 - 38.7 5% grey quartz 1% py & arsen (combined)	0714	TR	.04					
	36.7 - 38.7 3/4" quartz stgr @ 30° 1% py 1/2% arsen	0715	TR	.36					
	42.0 - 46.0 3% quartz blebs some vugs. Light py + arsen in quartz	0716	TR	.24					
	48.0 - 49.2 3/8" blue quartz @ 40° Fair py & arsen	0717	.005	1.50					
	52.2 - 52.7 1/2" blue quartz @ 45° 10% py & arsen in quartz	0718	.01	.87					
	52.7 - 53.2 Slight sil. granite Sparse py	0719	TR	1.34					
	53.2 - 55.0 3" blue quartz vein 10% py & 30% arsen in quartz. Light py + arsen in granite	0720	.005	4.44					

AWPL

LOG BY

LION NICKEL MINES OF CANADA LTD.

DD-21

McKENZIE RED LAKE GOLD MINES LTD.

DIAMOND DRILL CORE LOG

PEERLESS MINE

COLLAR CO-ORDINATES Location 109 DR. E Section

LAT DEP HOLE NO. 32 TOTAL DEPTH

ELEVATION SHEET NO. 2 FT. RECOVERED

AZIMUTH DIP DATE BEGUN % RECOVERY

HOR. VERT DATE FINISHED SIZE BIT

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	~~VALUE~~ PER TON OZ	Ag	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	VALUE
61.0 / 70.2	Grey granite. Light alteration. Traces fresh granite									
70.2 / 78.0	Light grey, moderately altered granite. Light sil. in places, and scattered patchs of small py blebs.									
	71.7-73.0 50% quartz in blebs generally longitudinal to core. One ¼" stigr at 45° with 50% py + arseno. Light fine py in quartz blebs.	0721	TR		.10					
	75.8-77.1 20% white, ruggy quartz in stigrs at 45°. 1% py & arseno in quartz + granite	0722	TR		.36					
78.0 / 101.5	Mainly fresh granite. Few patchs light alteration									
101.5 / 107.8	Light grey, moderately altered granite. Light sil, grey quartz filled fractures, and light sulphides in places.									
	102.0-104.8 1% quartz @ 45° 1% py blebs.	0723	.005		.56					
	104.8-106.5 30% ruggy quartz blebs. ½% py, ½% arseno.	0724	.01		.57					
107.8 / 116.0	Mainly fresh granite. Slight alteration in places									
116.0 / 121.0	Light grey, moderately altered granite. Numerous blebs & stringers grey, ruggy quartz in section 118.1-121.0. Patchs light py & arseno in quartz & altered granite									
	118.1-119.4 30% ruggy quartz in blebs + stringers at 30° 1% py, 1½% arseno	0725	.005		.02					
	119.4-121.0 15% quartz stigrs at 45°. 2% py 1% arseno	0726								

LOG BY

DD-21

LION NICKEL MINES OF CANADA LIMITED

~~McKENZIE RED LAKE GOLD MINES LTD.~~

DIAMOND DRILL CORE LOG

PEERLESS MINE

COLLAR CO-ORDINATES Location 109 DR. E Section

LAT DEP HOLE NO. 32 TOTAL DEPTH

ELEVATION SHEET NO. 3 FT. RECOVERED

AZIMUTH DIP DATE BEGUN % RECOVERY

HOR. VERT DATE FINISHED SIZE BIT

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	VALUE PER TON	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	VALUE
121.0 / 126.0	Lightly altered granite with traces fresh granite.								
126	End of Hole								

AWPL

LOG BY

Kirkland Mines of Canada Limited

McKENZIE RED LAKE GOLD MINES LTD.

DD-21

DIAMOND DRILL CORE LOG

COLLAR CO-ORDINATES — Location Peerless mine [redacted] E grain pc — Section No. 1 Vein

LAT 10949.21 DEP 6786.43 — HOLE NO. 23 — TOTAL DEPTH 100

ELEVATION [redacted] 519.15 — SHEET NO. 1 — FT. RECOVERED

AZIMUTH 99°21 DIP -45°07' — DATE BEGUN July 21/50 — % RECOVERY

HOR. VERT — DATE FINISHED July 22/50 AL — SIZE BIT AQ

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	VALUE PER TON OZ	VALUE PER TON Hg.	AVGS
0 / 60.0	Fresh granite. Traces slight alteration in places.					
	18.5-18.0 5% quartz blebs 2% py + light arsenic in quartz + granite	0727	.20		1.08	
60.0 / 70.0	Rapidly altered granite. Few fractures & slight sil.					
	1" grey quartz at 30° with heavy py & traces chalco					
	68.7-68.7 1" quartz stringer at 30° heavy py + traces chalco in quartz	0728	TR		.36	
70.0 / 82.8	Rapidly altered, grey granite. Traces sil, and occasional					
	fractures at 30° with pyrite filling (1/16"). Core broken up					
	70.0 to 72.0'.					
82.8 / 85.2	Moderately altered, light grey granite. Few fractures at 90°.					
	Very little mineral. Partly sil.					
	83.2-85.8 Sil. granite	0729	.005		TR	
	1" bands quartz and few blebs py in granite					
85.8 / 86.6	Solid blue quartz vein. 1/2%					
	galena py in blebs & 1% fine					
	arsenic in nests. Traces chalco.					
	Contacts destroyed.					
	85.8-86.6 Vein	0730	.01		3.39	
86.6 / 90.5	Continuation of moderate alteration					
	as in section 82.8-85.8					
	89.4-89.5' Sil. granite	0731	TR		.36	
	Very scarce py.					

SLUDGES

SAMP. NO.	FROM	OZ. AU	VALUE
	1 to 23		
	Hole #1		
	70.0 to 72.5		
	Sludge		
	No		

Continued

LOG BY A. Wood

DD-21

LIGHT NICKEL MINES OF CANADA LIMITED
McKENZIE RED LAKE GOLD MINES LTD.

DIAMOND DRILL CORE LOG

COLLAR CO-ORDINATES

Location PEERLESS MINE 109 DR. E

Section

LAT DEP HOLE NO. 32 TOTAL DEPTH

ELEVATION SHEET NO. 2 FT. RECOVERED

AZIMUTH DIP DATE BEGUN % RECOVERY

HOR. VERT DATE FINISHED SIZE BIT

DEPTH FEET	FORMATION	SAMPLE NO.	OZ AU PER TON	VALUE PER TON	AVGS	SLUDGES SAMP.NO.	FROM	OZ.AU	VALUE
92.0	Very lightly altered, dark								
104.0	greenish-gray granite.								
	Considerable chloritic alteration								
	to fine minerals in places.								
	Occasional tiny blob py.								
	Very little silicification.								
104.0	End of Hole								

LOG BY A. W.