BRITISH COLUMBIA

Ministry of Energy & Mines
Energy & Minerals Division
Geological Survey Branch

ASSESSMENT REPORT
TITLE PAGE AND SUMMARY

TITLE OF REPORT [type of survey(s)] Drill Report on the Dansey Project TOTAL COST $207,516.00

AUTHOR(S) Zhonghua Pan, SIGNATURE(S)

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S) MX-4-517 / 9th Sept-08 YEAR OF WORK 2009

STATEMENT OF WORK - CASH PAYMENT EVENT NUMBER(S)/DATE(S) 4457028, 4457088, 4457093, 4457128, 4457131, 4457148 Recorded all on 15th Jan-10

PROPERTY NAME Logan Lake

CLAIM NAME(S) (on which work was done) Dansey (# 528848)

COMMODITIES SOUGHT Copper

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN 092INE034

MINING DIVISION Kamloops Mining Division NTS 092I/10

LATITUDE 50 ° 31 ' 2 " LONGITUDE 120 ° 53 ' 2 " (at centre of work)

OWNER(S)

1) Logan Copper Inc. 2)

MAILING ADDRESS

Suite 216-7198 Vantage Way, Ladner, BC, V4G 1K7

OPERATOR(S) [who paid for the work]

1) Logan Copper Inc. 2)

MAILING ADDRESS

Suite 216-7198 Vantage Way, Ladner, BC, V4G 1K7

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

Copper, Molybdenum Guichon Batholith, Jurrasic, fault zone Chlorite-Quartz alteration, hydrothermal - porphyry

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS 711, 1166, 1585, 1787, 1934, 1935, 2024, 2066, 2114, 2282, 3184, 3459, 4983, 4984, 5065, 5851, 10783, 30458

(OVER)

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping	1.5 km^2	528848	$32,100.33
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for ...)			
Soil			
Silt			
Rock			
Other	Core: 160 samples assayed for Gold + 30 element ICP	528848	$5,255.88
DRILLING (total metres; number of holes, size)			
Core	442m, 2 holes, NQ	528848	$128,040.64
Non-core			
RELATED TECHNICAL			
Sampling/assaying	442m of core logged & cut	528848	$42,119.16
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY/PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other			
		TOTAL COST	$207,516.00

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Mineral Titles Online

Mineral Claim Exploration and Development Work/Expiry Date Change

Confirmation

Recorder: SNL ENTERPRISES LTD. (202501) **Submitter:** SNL ENTERPRISES LTD. (202501)

Recorded: 2010/JAN/15 **Effective:** 2010/JAN/15

D/E Date: 2010/JAN/15

Confirmation

If you have not yet submitted your report for this work program, your technical work report is due in 90 days. The Exploration and Development Work/Expiry Date Change event number is required with your report submission. **Please attach a copy of this confirmation page to your report.** Contact Mineral Titles Branch for more information.

Event Number: **4457028**

Work Type: Technical Work
Technical Items: Drilling, Geochemical, Geological

Work Start Date: 2009/MAY/11
Work Stop Date: 2009/AUG/05
Total Value of Work: $ 166749.46
Mine Permit No:

Summary of the work value:

Tenure Number	Claim Name/Property	Issue Date	Good To Date	New Good To Date	# of Days For-ward	Area in Ha	Applied Work Value	Sub-mission Fee
514175	QUEN	2005/jun/08	2010/apr/08	2011/may/28	415	41.18	$ 374.60	$ 18.73
522351	MIKE	2005/nov/17	2010/apr/08	2011/may/28	415	370.45	$ 3369.59	$ 168.48
528848	DANSEY	2006/feb/23	2010/apr/08	2011/may/28	415	493.13	$ 4485.44	$ 224.27
528849	DAB	2006/feb/23	2010/apr/08	2011/may/28	415	492.95	$ 4483.86	$ 224.19
528955	TUNKWA	2006/feb/25	2010/apr/08	2011/may/28	415	512.67	$ 4663.22	$ 233.16
570172		2007/nov/17	2010/apr/08	2011/may/28	415	20.56	$ 93.51	$ 9.35
580823		2008/apr/09	2010/apr/08	2011/may/28	415	389.82	$ 1772.89	$ 177.29
580830		2008/apr/09	2010/apr/08	2011/may/28	415	513.24	$ 2334.18	$ 233.42
580837		2008/apr/09	2010/apr/08	2011/may/28	415	492.94	$ 2241.86	$ 224.19
580839		2008/apr/09	2010/apr/08	2011/may/28	415	493.16	$ 2242.85	$ 224.28
580838		2008/apr/09	2010/apr/12	2011/may/28	411	513.40	$ 2312.41	$ 231.24
580973	LOGAN	2008/apr/11	2010/apr/08	2011/may/28	415	82.10	$ 373.37	$ 37.34
580999		2008/apr/11	2010/apr/08	2011/may/28	415	493.52	$ 2244.50	$ 224.45
581008		2008/apr/11	2010/apr/08	2011/may/28	415	514.51	$ 2339.98	$ 234.00
581016		2008/apr/11	2010/apr/08	2011/may/28	415	514.67	$ 2340.70	$ 234.07
580989	LOGAN	2008/apr/11	2010/apr/12	2011/may/28	411	493.34	$ 2222.05	$ 222.21
580998		2008/apr/11	2010/apr/12	2011/may/28	411	472.98	$ 2130.34	$ 213.03
581000		2008/apr/11	2010/apr/12	2011/may/28	411	493.52	$ 2222.86	$ 222.29
581006		2008/apr/11	2010/apr/12	2011/may/28	411	514.37	$ 2316.78	$ 231.68

580979	LOGAN	2008/apr/11	2010/jan/22	2011/may/28	491	492.92	$ 2652.29	$ 265.23
580984	LOGAN	2008/apr/11	2010/jan/22	2011/may/28	491	513.70	$ 2764.14	$ 276.41
580992	LOGAN	2008/apr/11	2010/jan/22	2011/may/28	491	513.70	$ 2764.14	$ 276.41
580997	LOGAN	2008/apr/11	2010/jan/22	2011/may/28	491	513.93	$ 2765.36	$ 276.54
581002		2008/apr/11	2010/jan/22	2011/may/28	491	432.00	$ 2324.53	$ 232.45
581003		2008/apr/11	2010/jan/22	2011/may/28	491	514.29	$ 2767.28	$ 276.73
581005		2008/apr/11	2010/jan/22	2011/may/28	491	514.51	$ 2768.48	$ 276.85
581009		2008/apr/11	2010/jan/22	2011/may/28	491	514.64	$ 2769.20	$ 276.92
581011		2008/apr/11	2010/jan/22	2011/may/28	491	514.52	$ 2768.52	$ 276.85
581012		2008/apr/11	2010/jan/22	2011/may/28	491	514.76	$ 2769.82	$ 276.98
581014		2008/apr/11	2010/jan/22	2011/may/28	491	514.70	$ 2769.52	$ 276.95
581015		2008/apr/11	2010/jan/22	2011/may/28	491	514.84	$ 2770.27	$ 277.03
581018		2008/apr/11	2010/jan/22	2011/may/28	491	514.70	$ 2769.49	$ 276.95
581019		2008/apr/11	2010/jan/22	2011/may/28	491	514.86	$ 2770.37	$ 277.04
581022		2008/apr/11	2010/jan/22	2011/may/28	491	494.38	$ 2660.19	$ 266.02
581024		2008/apr/11	2010/jan/22	2011/may/28	491	494.38	$ 2660.18	$ 266.02
581026		2008/apr/11	2010/jan/22	2011/may/28	491	515.05	$ 2771.39	$ 277.14
581027		2008/apr/11	2010/jan/22	2011/may/28	491	515.21	$ 2772.26	$ 277.23
581028		2008/apr/11	2010/jan/22	2011/may/28	491	515.17	$ 2772.04	$ 277.20
581030		2008/apr/11	2010/jan/22	2011/may/28	491	473.97	$ 2550.34	$ 255.03
585317		2008/may/27	2010/jan/22	2011/may/28	491	492.88	$ 2652.10	$ 265.21
585318		2008/may/27	2010/jan/22	2011/may/28	491	513.48	$ 2762.96	$ 276.30
585319		2008/may/27	2010/jan/22	2011/may/28	491	472.18	$ 2540.73	$ 254.07
585320		2008/may/27	2010/jan/22	2011/may/28	491	513.48	$ 2762.94	$ 276.29
585321		2008/may/27	2010/jan/22	2011/may/28	491	410.68	$ 2209.77	$ 220.98
585322		2008/may/27	2010/jan/22	2011/may/28	491	513.48	$ 2762.93	$ 276.29
585323		2008/may/27	2010/jan/22	2011/may/28	491	493.12	$ 2653.39	$ 265.34
585324		2008/may/27	2010/jan/22	2011/may/28	491	513.71	$ 2764.17	$ 276.42
585325		2008/may/27	2010/jan/22	2011/may/28	491	513.89	$ 2765.14	$ 276.51
585374		2008/may/28	2010/jan/22	2011/may/28	491	514.11	$ 2766.36	$ 276.64
585375		2008/may/28	2010/jan/22	2011/may/28	491	514.27	$ 2767.19	$ 276.72
585376		2008/may/28	2010/jan/22	2011/may/28	491	513.94	$ 2765.40	$ 276.54
585378		2008/may/28	2010/jan/22	2011/may/28	491	514.20	$ 2766.79	$ 276.68
585379		2008/may/28	2010/jan/22	2011/may/28	491	513.70	$ 2764.15	$ 276.42
585380		2008/may/28	2010/jan/22	2011/may/28	491	513.70	$ 2764.14	$ 276.41
585381		2008/may/28	2010/jan/22	2011/may/28	491	513.94	$ 2765.40	$ 276.54
585382		2008/may/28	2010/jan/22	2011/may/28	491	514.01	$ 2765.81	$ 276.58
585383		2008/may/28	2010/jan/22	2011/may/28	491	267.37	$ 1438.65	$ 143.86
585385		2008/may/28	2010/jan/22	2011/may/28	491	123.56	$ 664.85	$ 66.48
585388		2008/may/28	2010/jan/22	2011/may/28	491	513.08	$ 2760.77	$ 276.08
585390		2008/may/28	2010/jan/22	2011/may/28	491	512.92	$ 2759.91	$ 275.99
585391		2008/may/28	2010/jan/22	2011/may/28	491	307.71	$ 1655.76	$ 165.58
585384		2008/may/28	2010/jan/31	2011/may/28	482	494.01	$ 2609.45	$ 260.94
585386		2008/may/28	2010/jan/31	2011/may/28	482	205.64	$ 1086.25	$ 108.62
590554	LITTLE ATTICUS	2008/aug/29	2010/jan/22	2011/may/28	491	432.91	$ 2329.41	$ 232.94
596226	LOGAN	2008/dec/17	2010/jan/31	2011/may/28	482	493.66	$ 2607.63	$ 260.76
596301	PONYBOY NORTH	2008/dec/18	2010/jan/31	2011/may/28	482	390.98	$ 2065.21	$ 206.52
596302	PONYBOY SE	2008/dec/18	2010/jan/31	2011/may/28	482	164.71	$ 870.04	$ 87.00
600351	DREADNOUGHT	2009/mar/05	2010/mar/05	2011/may/28	449	123.12	$ 605.84	$ 60.58
603867	ATTICUS-REY LAKE	2009/may/04	2010/may/04	2011/may/28	389	41.24	$ 175.79	$ 17.58
603868	ATTICUS DEUCE	2009/may/04	2010/may/04	2011/may/28	389	41.22	$ 175.73	$ 17.57

Financial Summary:

Total applied work value:$ 166749.46

PAC name:

Debited PAC amount:	$ 0.0
Credited PAC amount:	$ 0.0
Total Submission Fees:	$ 15806.1
Total Paid:	**$ 15806.1**

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Mineral Claim Exploration and Development Work/Expiry Date Change

Confirmation

Recorder: SNL ENTERPRISES LTD. (202501) **Submitter:** SNL ENTERPRISES LTD. (202501)
Recorded: 2010/JAN/15 **Effective:** 2010/JAN/15
D/E Date: 2010/JAN/15

Confirmation

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Event Number: **4457088**

Work Type: Technical Work
Technical Items: Drilling, Geochemical, Geological

Work Start Date: 2009/MAY/26
Work Stop Date: 2010/JAN/14
Total Value of Work: $ 1158.59
Mine Permit No:

Summary of the work value:

Tenure Number	Claim Name/Property	Issue Date	Good To Date	New Good To Date	# of Days For-ward	Area in Ha	Applied Work Value	Sub-mission Fee
528848	DANSEY	2006/feb/23	2011/may/28	2011/may/28	0	493.13	$ 0.00	$ 0.00
580839		2008/apr/09	2011/may/28	2011/may/28	0	493.16	$ 0.00	$ 0.00
580989	LOGAN	2008/apr/11	2011/may/28	2011/may/28	0	493.34	$ 0.00	$ 0.00
596226	LOGAN	2008/dec/17	2011/may/28	2011/may/28	0	493.66	$ 0.00	$ 0.00
596301	PONYBOY NORTH	2008/dec/18	2011/may/28	2011/may/28	0	390.98	$ 0.00	$ 0.00
605002	PONYBOY WEST	2009/may/26	2010/may/26	2011/may/28	367	123.50	$ 496.71	$ 49.67
605003	JERICHO GIRL	2009/may/26	2010/may/26	2011/may/28	367	164.57	$ 661.88	$ 66.19

Financial Summary:

Total applied work value: $ 1158.59

PAC name:
Debited PAC amount: $ 0.0
Credited PAC amount: $ 0.0

Total Submission Fees: $ 115.86

Total Paid: **$ 115.86**

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Mineral Claim Exploration and Development Work/Expiry Date Change

Confirmation

Recorder: SNL ENTERPRISES LTD. (202501) **Submitter:** SNL ENTERPRISES LTD. (202501)
Recorded: 2010/JAN/15 **Effective:** 2010/JAN/15
D/E Date: 2010/JAN/15

Confirmation

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Event Number: **4457093**

Work Type: Technical Work
Technical Items: Drilling, Geochemical, Geological

Work Start Date: 2009/JUL/22
Work Stop Date: 2010/JAN/14
Total Value of Work: $ 990.41
Mine Permit No:

Summary of the work value:

Tenure Number	Claim Name/Property	Issue Date	Good To Date	New Good To Date	# of Days For-ward	Area in Ha	Applied Work Value	Sub-mission Fee
528848	DANSEY	2006/feb/23	2011/may/28	2011/may/28	0	493.13	$ 0.00	$ 0.00
580839		2008/apr/09	2011/may/28	2011/may/28	0	493.16	$ 0.00	$ 0.00
580979	LOGAN	2008/apr/11	2011/may/28	2011/may/28	0	492.92	$ 0.00	$ 0.00
580830		2008/apr/09	2011/may/28	2011/may/28	0	513.24	$ 0.00	$ 0.00
610183	DIG-DEEP HEARTBREAK	2009/jul/22	2010/jul/22	2010/oct/01	71	307.95	$ 239.61	$ 23.96
610203	THE ORCHARD	2009/jul/22	2010/jul/22	2010/oct/01	71	369.54	$ 287.53	$ 28.75
610223	ELEPHANT'S DEN	2009/jul/22	2010/jul/22	2010/oct/01	71	472.20	$ 367.41	$ 36.74
610243	SASKATOON	2009/jul/22	2010/jul/22	2010/oct/01	71	82.13	$ 63.90	$ 6.39
610244	WALLACE	2009/jul/22	2010/jul/22	2010/oct/01	71	41.07	$ 31.95	$ 3.20

Financial Summary:

Total applied work value: $ 990.40

PAC name: SNL Enterprises
Debited PAC amount: $ 0.0
Credited PAC amount: $ 0.01

Total Submission Fees:	$ 99.04
Total Paid:	**$ 99.04**

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Mineral Claim Exploration and Development Work/Expiry Date Change

Confirmation

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Event Number: **4457128**

Work Type: Technical Work
Technical Items: Drilling, Geochemical, Geological

Work Start Date: 2009/JUL/24
Work Stop Date: 2010/JAN/14
Total Value of Work: $ 6412.06
Mine Permit No:

Summary of the work value:

Tenure Number	Claim Name/Property	Issue Date	Good To Date	New Good To Date	# of Days For-ward	Area in Ha	Applied Work Value	Sub-mission Fee
528848	DANSEY	2006/feb/23	2011/may/28	2011/may/28	0	493.13	$ 0.00	$ 0.00
580839		2008/apr/09	2011/may/28	2011/may/28	0	493.16	$ 0.00	$ 0.00
580979	LOGAN	2008/apr/11	2011/may/28	2011/may/28	0	492.92	$ 0.00	$ 0.00
580830		2008/apr/09	2011/may/28	2011/may/28	0	513.24	$ 0.00	$ 0.00
580997	LOGAN	2008/apr/11	2011/may/28	2011/may/28	0	513.93	$ 0.00	$ 0.00
580998		2008/apr/11	2011/may/28	2011/may/28	0	472.98	$ 0.00	$ 0.00
581006		2008/apr/11	2011/may/28	2011/may/28	0	514.37	$ 0.00	$ 0.00
581008		2008/apr/11	2011/may/28	2011/may/28	0	514.51	$ 0.00	$ 0.00
581016		2008/apr/11	2011/may/28	2011/may/28	0	514.67	$ 0.00	$ 0.00
581018		2008/apr/11	2011/may/28	2011/may/28	0	514.70	$ 0.00	$ 0.00
611423	LOGAN NORTH 1	2009/jul/24	2010/jul/24	2010/oct/1	69	512.67	$ 387.67	$ 38.77
611443	LOGAN NORTH 2	2009/jul/24	2010/jul/24	2010/oct/1	69	512.90	$ 387.83	$ 38.78
611444	LOGAN NORTH 3	2009/jul/24	2010/jul/24	2010/oct/1	69	512.67	$ 387.66	$ 38.77
611445	LOGAN NORTH 4	2009/jul/24	2010/jul/24	2010/oct/1	69	512.90	$ 387.83	$ 38.78
611446	LOGAN NORTH 5	2009/jul/24	2010/jul/24	2010/oct/1	69	513.12	$ 388.00	$ 38.80
611463	LOGAN NORTH 6	2009/jul/24	2010/jul/24	2010/oct/1	69	513.05	$ 387.95	$ 38.79
611483	LOGAN NORTH 7	2009/jul/24	2010/jul/24	2010/oct/1	69	513.43	$ 388.24	$ 38.82
611503	LOGAN NORTH 0	2009/jul/24	2010/jul/24	2010/oct/1	69	369.12	$ 279.11	$ 27.91
611504	LOGAN NORTH 8	2009/jul/24	2010/jul/24	2010/oct/1	69	513.48	$ 388.28	$ 38.83

611523	LOGAN NORTH 9	2009/jul/24	2010/jul/24	2010/oct/1	69	513.48	$ 388.27	$ 38.83
611543	LOGAN NORTH 10	2009/jul/24	2010/jul/24	2010/oct/1	69	513.70	$ 388.44	$ 38.84
611563	LOGAN NORTH 11	2009/jul/24	2010/jul/24	2010/oct/1	69	493.02	$ 372.80	$ 37.28
611583	LOGAN 1	2009/jul/24	2010/jul/24	2010/oct/1	69	513.91	$ 388.60	$ 38.86
611603	LOGAN 2	2009/jul/24	2010/jul/24	2010/oct/1	69	452.11	$ 341.87	$ 34.19
611623	TUNKWA1	2009/jul/24	2010/jul/24	2010/oct/1	69	513.12	$ 388.00	$ 38.80
611643	LOGAN WAY	2009/jul/24	2010/jul/24	2010/oct/1	69	494.15	$ 373.66	$ 37.37
611663	TUNKWA 2	2009/jul/24	2010/jul/24	2010/oct/1	69	512.90	$ 387.84	$ 38.78

Financial Summary:

Total applied work value: $ 6412.05

PAC name: SNL Enterprises
Debited PAC amount: $ 0.0
Credited PAC amount: $ 0.01

Total Submission Fees: $ 641.21

Total Paid: **$ 641.21**

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Mineral Claim Exploration and Development Work/Expiry Date Change

Confirmation

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Event Number: **4457131**

Work Type: Technical Work
Technical Items: Drilling, Geochemical, Geological

Work Start Date: 2009/SEP/15
Work Stop Date: 2010/JAN/14
Total Value of Work: $ 15.33
Mine Permit No:

Summary of the work value:

Tenure Number	Claim Name/Property	Issue Date	Good To Date	New Good To Date	# of Days For-ward	Area in Ha	Applied Work Value	Sub-mission Fee
528848	DANSEY	2006/feb/23	2011/may/28	2011/may/28	0	493.13	$ 0.00	$ 0.00
580839		2008/apr/09	2011/may/28	2011/may/28	0	493.16	$ 0.00	$ 0.00
580989	LOGAN	2008/apr/11	2011/may/28	2011/may/28	0	493.34	$ 0.00	$ 0.00
581000		2008/apr/11	2011/may/28	2011/may/28	0	493.52	$ 0.00	$ 0.00
580999		2008/apr/11	2011/may/28	2011/may/28	0	493.52	$ 0.00	$ 0.00
580998		2008/apr/11	2011/may/28	2011/may/28	0	472.98	$ 0.00	$ 0.00
634304	COPPER	2009/sep/14	2010/sep/14	2010/oct/01	17	82.28	$ 15.33	$ 1.53

Financial Summary:

Total applied work value: $ 15.33

PAC name:
Debited PAC amount: $ 0.0
Credited PAC amount: $ 0.0

Total Submission Fees: $ 1.53

Total Paid: **$ 1.53**

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Mineral Claim - Payment Instead of Exploration and Development Work

Confirmation

Recorder: SNL ENTERPRISES LTD. (202501) **Submitter:** SNL ENTERPRISES LTD. (202501)
Recorded: 2010/JAN/15 **Effective:** 2010/JAN/15
D/E Date: 2010/JAN/15

Event Number: 4457148

Tenure #	Claim Name/Property	Issue Date	Good To Date	New Good To Date	# of Days For-ward	Area in Ha	Work Value Due	PIW Value	Sub-mission Fee
585387		2008/may/28	2010/jan/31	2010/oct/01	243	102.78	$ 273.69	$ 273.69	$ 27.37
586826	HAPPY TUESDAY	2008/jun/24	2010/jan/31	2010/oct/01	243	61.80	$ 164.57	$ 164.57	$ 16.46

Payment Instead of Work Total:	$ 438.26
Submission Fee:	$ 43.83
Total Paid:	$ 482.09

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Back

Drill Report on the Dansey Project

Logan Lake, British Columbia, Canada
Kamloops Mining Division
NTS: 092I/10
Claim Number: 528848
Claim Name: Dansey

BC Geological Survey
Assessment Report
31466

Centered at:
UTM Zone 10
650000E 5598300N
NAD 83

or

Latitude: $50^{O}30'2''$
Longitude: $120^{O}53'2''$

Owner/Operator:

Logan Copper Inc.

216-7198 Vantage Way
Ladner, BC V4G 1K7

Author:

Zhonghua Pan, PH.D.

Dated: January 15th, 2010
Submitted: April 13th, 2010

TABLE OF CONTENT

1. INTRODUCTION

Between May 11th, 2009 and August 4th, 2009 Logan Copper Inc. carried out geological mapping and NQ sized diamond drilling on the Dansey Claim (tenure number 528848).

The Dansey Project is located on the Logan Copper Property within a historically significant and highly productive mining camp. Industry attention was first brought to the Dansey Project area in the mid 60's shortly after the discovery of the Lornex, Valley and Bethleham pits, which today comprise the Highland Valley Mining complex, located within seven kilometers of the Dansey Project.

Geologically, the Dansey Project area is located on the eastern portion of the Guichon Creek Batholith, a regionally significant Jurassic-age intrusive and the host of 23 developed prospects and past producers including the Lornex and Valley open pits.

2. PROPERTY DESCRIPTION

The entire Logan Copper Property is 100% owned by Logan Copper Inc. There are no encumbrances on the mineral tenures comprising the Logan Copper Property and Dansey Project area other than those normally reserved by the Crown.

The Dansey Project is located on the Logan Coppers Property (Table 2). The registered and 100% beneficial owner of the Logan Copper Property is Logan Copper Inc. The Logan Copper Property consists of 105 contiguous and two noncontiguous, mineral claims, covering approximately 43,642.57 hectares (Figure 1). The Dansey Project area is located near the eastern boundary of the Logan Copper Property and consists of five contiguous mineral claims covering 2,485.58 hectares (Figure 2, Table 1).

The Logan Copper Property has been acquired through a combination of staking and cash purchases between May 22nd, 2008 and January 15th, 2010.

TABLE 1: DANSEY PROJECT TENURES

Dansey Project Area				
Tenure Number	**Claim Name**	**Issue Date**	**Good To Date**	**Area (ha)**
528848	DANSEY	23-Feb-06	28-May-11	493.13
528849	DAB	23-Feb-06	28-May-11	492.95
580837		9-Apr-08	28-May-11	492.94
580838		9-Apr-08	28-May-11	513.4
580839		9-Apr-08	28-May-11	493.16
			TOTAL	**2485.58**

TABLE 2: LOGAN COPPER PROPERTY TENURES

Logan Copper Property Tenure Numbers											
514175	580838	580999	581012	581027	585318	585375	585385	610203	611463	611623	663657
522351	580839	581000	581014	581028	585319	585376	585386	610223	611483	611643	647463
528848	580973	581002	581015	581030	585320	585378	585387	610243	611503	611663	634304
528849	580979	581003	581016	590554	585321	585379	585388	610244	611504	600351	696823
528955	580984	581005	581018	596226	585322	585380	585390	611423	611523	603867	699924
570172	580989	581006	581019	596301	585323	585381	585391	611443	611543	603868	699946
580823	580992	581008	581022	596302	585324	585382	679143	611444	611563	605002	700064
580830	580997	581009	581024	586826	585325	585383	679148	611445	611583	605003	700065
580837	580998	581011	581026	585317	585374	585384	610183	611446	611603	663644	

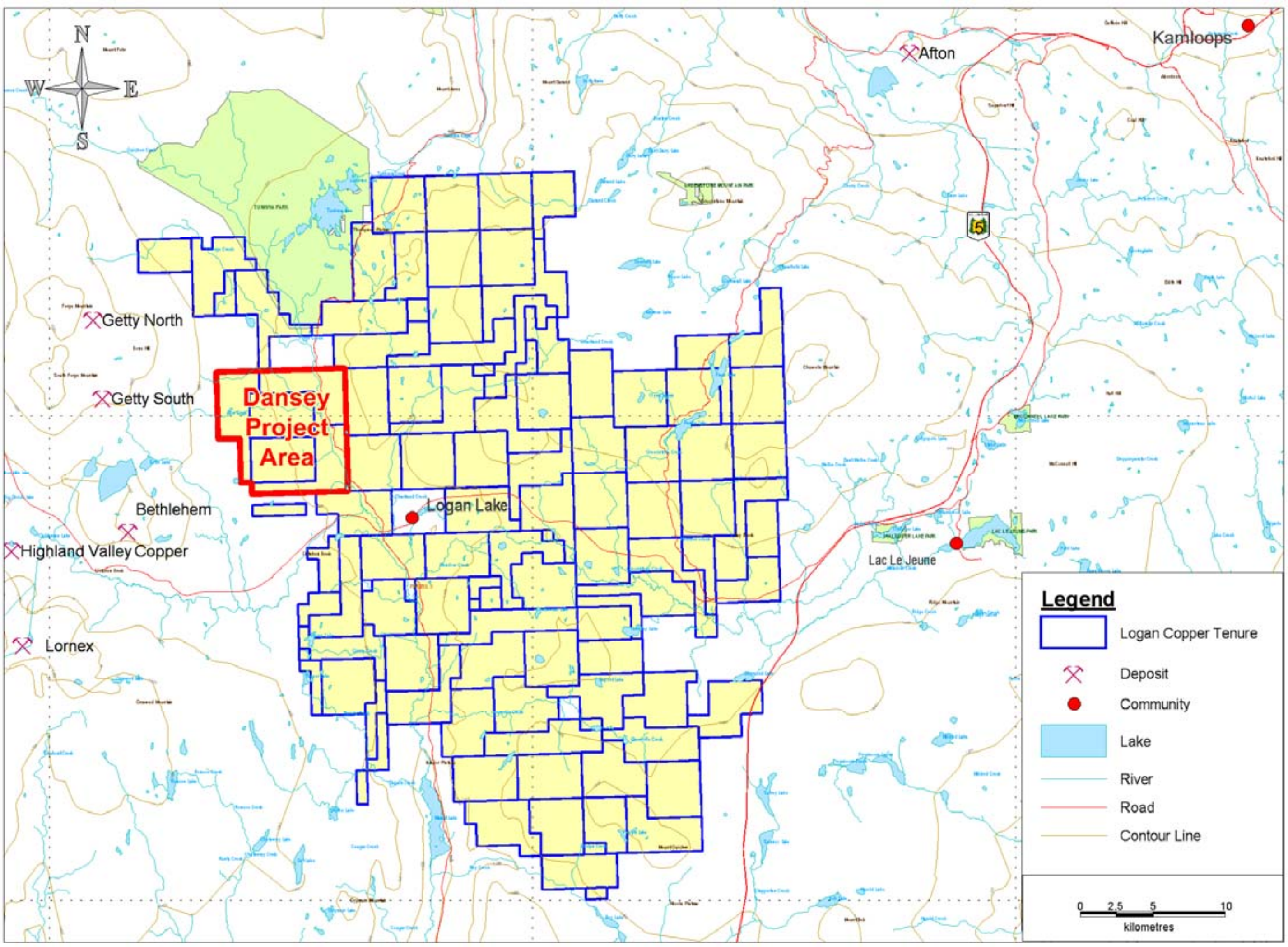

FIGURE 1: LOGAN COPPER PROPERTY TENURE MAP

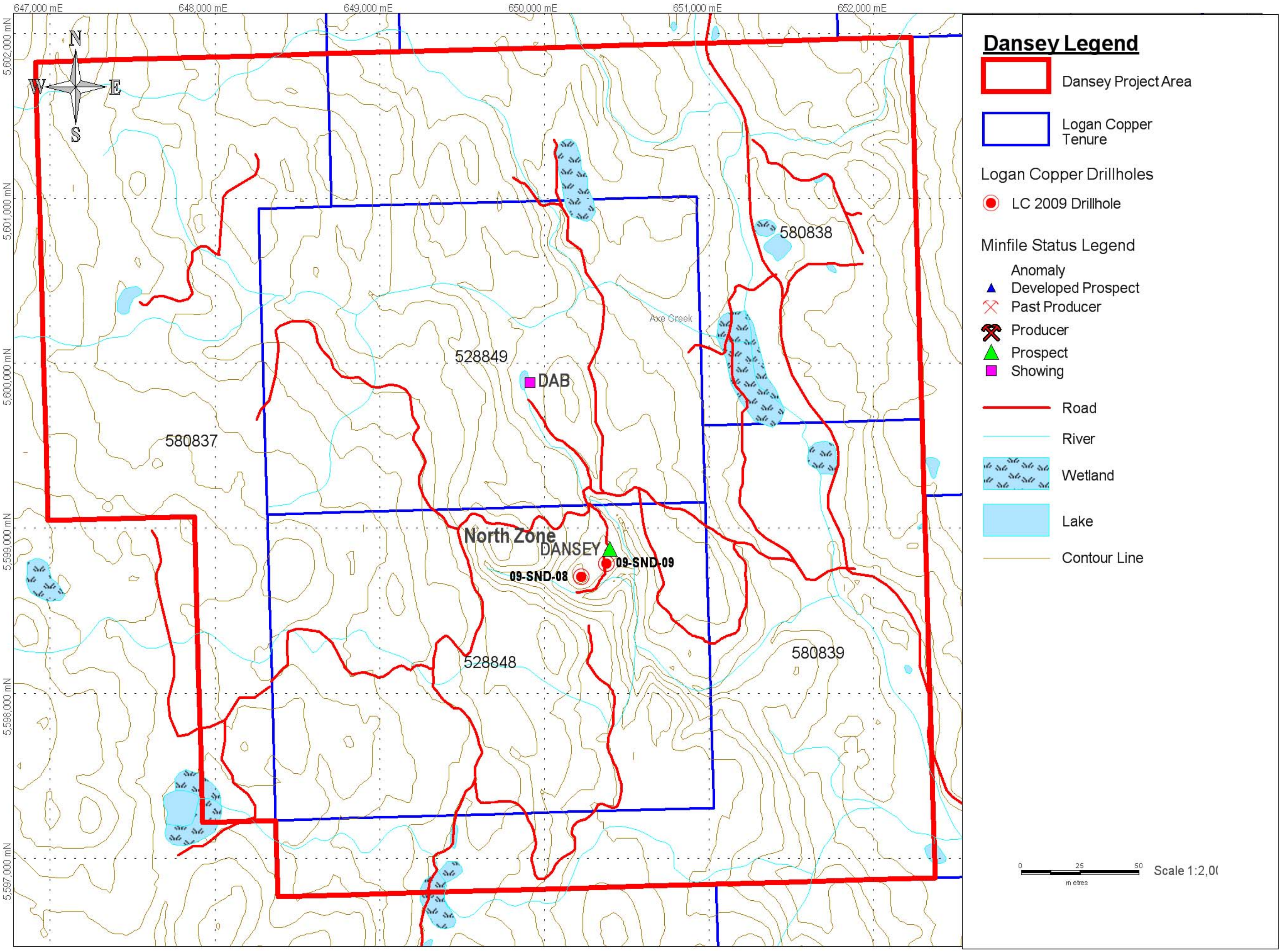

FIGURE 2: DANSEY PROJECT MAP

3. LOCATION

The Logan Copper Property is located in south central British Columbia, Canada (Figure 3). The Property is centered near the community of Logan Lake. This community is situated approximately 48km north of Merritt, British Columbia and approximately 59km southwest of Kamloops, British Columbia. The property can be accessed by highway 97C from Merritt or highway 5 south from Kamloops to exit 336 turning west on Meadow Creek Rd to Logan Lake.

FIGURE 3: LOGAN COPPER LOCATION MAP

The Dansey Project is situated on the eastern edge of the Logan Copper Property and is centered at UTM zone 10 easting 650000 northing 5598300 (NAD 83). The Dansey Project is situated 5.6 km northwest of the community of Logan Lake, and can be accessed using a 4x4 vehicle via paved road and well maintained forestry access road.

4. ACCESS

Starting from the intersection of Meadow Creek road, highway 97C and Tunkwa Lake road in the Community of Logan Lake, the center of the Dansey Project can be accessed by traveling north on Tunkwa Lake road for 4 km, then travel west for 5 km on a well maintained forestry access road.

Portions of the Dansey Project area, recently worked by Logan Copper, can be accessed from approximately March to late November and year round with minimal snow plowing. Other parts of the Project can be access by a well developed network of unmaintained logging and exploration roads which remain in good condition, and numerous unmaintained roads which require minimal rehabilitation.

5. PHYSIOGRAPHY AND CLIMATE

PHOTO 1: DANSEY PROJECT ARE LOOKING SOUTHEAST TO LOGAN LAKE

The property is located in the Thompson Plateau of Southern British Columbia. Topography is generally mild to moderate, with elevations ranging between 1040m to 1380m above sea level within the boundaries five Dansey Project tenures. Photo 1 and Photo 2 exemplify the physiography of Dansey Project area.

Small seasonal creeks flow east draining the area into Guichon Creek, and numerous small swamps and lakes are located throughout the Dansey area tenures. Vegetation comprises of lodgepole pine with sporadic local fir, birch, poplar and spruce surrounding small intermittent open fields and meadows. The general area has been devastated by the Mountain Pine Beetle infestation and much of the property is littered with dead fall.

The local climate is typical of south central British Columbia. Annual temperatures range from 35^{o}C to -40^{o}C. Negative temperatures can be typically expected between late October and late March. Annual precipitation ranges around an average of 30 cm.

PHOTO 2: SOUTHERN DANSEY PROJECT AREA LOOKING NORTH

6. HISTORY

Mining and exploration has played a significant role in the Logan Lake area for well over a century. Heightened industry attention in the Dansey Project area coincided with the first production from the Bethlehem Copper Mine and the discovery of the Valley ore body in the early sixties. In the seventies the Town of Logan Lake was established to facilitate the workforce for the Lornex Mine, which today along with the Valley pit comprises the Highland Valley Mining complex.

Blue chip explorers such as Noranda Exploration Company and Cominco Limited along with half a dozen juniors have conducted exploration programs and identified significant geochemical and geophysical anomalies within the boundaries of the current Dansey Project area tenures. Subsequent historic drilling has intersected significant intervals of copper mineralization in a series of shallow drill percussion drill holes not exceeding 110 meters.

6.1. EXPLORATION HISTORY OF THE DANSEY PROJECT

The first recorded assessment work conducted in the area of the Dansey Project was carried out in 1965. A large geochemical survey was conducted on behalf of New Indian Mines Ltd. ("Indian Mines") and Vananda Explorations Ltd. ("Vananda Explorations") on their Eden mineral claims which partly overlaped the southwest corner of the Dansey Project area. 1507 soil samples were collected at 300 by 200 meter intervals roughly half of which were located on ground currently held by Logan Copper. The samples were tested using the qualitative rubeanic acid method in a field laboratory. "Although the soil samples did not show a pattern of anomalous values that could be contoured, the results were sufficiently encouraging to merit additional work in this area." (ARIS 711)

In 1967 Alwin Mining Company Ltd. ("Alwin") flew a magnetometer survey over their HJ and DAB tenure blocks located along the eastern edge of the Dansey Project tenures. The survey measured 4 by 2.5 miles at approximately 1/8 mile line intervals and covered most of the eastern half and much of the southern half of the current Dansey Project area.

The purpose of the survey was to identify bedrock structure. Richard O. Crosby, P. Eng. inferred the high magnetic anomalies, on the western portion of the survey, as disseminated magnetite within the igneous mass and consequently interpreted the contact zone between the Guichon Creek Batholith and Nicola Volcanics. The contact zone was identified running north northwest from the southeast corner of the current Dansey Project area to the RM MINFILE located north and center of the Dansey project area. This contact zone was interpreted as being intersected by three southwest to northeast running faults with the northern most fault being intersected by a minor fault near the Dab MINFILE area. (ARIS 1166)

In 1968 North Pacific Mines Ltd. ("North Pacific") began its exploration program over its property, located adjacent to Alwin's ground. North Pacific flew a large aeromagnetic survey wich stretched across the center and beyond the northwest and southeast corners of the current Dansey Project tenures. The survey consisted of 40 lines averaging 3 miles and spaced at about 545 feet. The author identified four anomalies within the surveyed area, three of which are located within the boundaries of the Dansey project area. (ARIS 1585)

In late 1968 Alwin followed up their earlier aeromagnetic survey with geochemical work. 911 soil samples were collected and shipped to Technical Service Laboratories in Vancouver for analysis. The survey indicated a single, >100 ppm, 150 by 1100 foot anomaly trending and open to the northwest. The anomaly is located approximately 800m northeast of the Dab MINFILE. (ARIS 1787)

Following its aeromagnetic survey, North Pacific optioned out the property to Thermochem Industries Ltd. which had a working agreement with Noranda Exploration Company ("Noranda"). That year Noranda conducted a comprehensive geochemical survey covering nearly the entire North Pacific property group. Samples were taken from multiple soil horizons and analyzed for copper and molybdenum. Results are summarized in assessment reports 1934, 1935 and 2066. While molybdenum results were relatively muted the survey identified a large area of geochemical copper anomalies ranging from 100ppm to 1600ppm. An 800m diameter area of >300ppm anomalies ("Noranda's Central Geochemical Anomaly") was identified centered near the Dansey MINFILE showing. Numerous smaller anomalies in the surrounding area were located as far as 3.8km from the Noranda's Central Geochemical Anomaly.

Concurrently, Comet-Krain Mining Corp. ("Comet Mining") carried out its own geochemical survey southeast of North Pacific's ground. This survey indicated low order but discreet geochemical copper anomalies. Results from this survey were similar in magnitude and position to anomalies surrounding Noranda's Central Geochemical Anomaly, identified by Noranda the same year. (ARIS 2024)

In late 1969 large portions of the Dansey project area were subjected to induced polarization ("IP") surveys.

Indian Mines and Vananda Explorations commissioned an IP on its Eden property. North-south cut lines were located 300 feet apart with 200 foot and 400 foot electrode spacing. An area of elevated chargeability was measured approximately 600m west of Logan Copper's "Midway Showing." Jon G. Baird P.Eng., the author of the subject surveys assessment report concluded:

The present induced polarization survey has indicated one area at least 400' in width by 2000' in length which exhibits above normal chargeability responses. These responses are interpreted as being due to disseminations of from 1% to 2% by volume of metallically conducting *mineralization. In the present geological environment it appears that there is a real possibility that the chargeability increases may be due to concentrations of sulfide mineralization. (ARIS 2114)*

Noranda also conducted IP surveys on three grids surrounding Noranda's Central Geochemical anomaly. A series of high order anomalies were identified on the eastern grid overlying a lowland swamp along Guichon Creek, on the eastern half of the Dansey project area. The larges consistent anomaly in the area measures 550 feet by 1200 feet with a general anomalies trend running for over 2km northsouth. It appears that no IP survey was conducted or data was not disclosed on the Noranda's Central Geochemical Anomaly itself. (ARIS 2282)

In the spring of 1971 Comet Mining conducted a ground magnetometer survey on the same points as its earlier geochemical survey. Results were mostly inconclusive. Recommendations included further geophysical and geochemical investigations. (ARIS 3184)

Alwin also conducted a ground magnetometer survey on its property the same year. The southwest portion of the survey returned greater magnetic variation then the northeast portion. The author W. S. Read P.Eng., interpreted this zone of variation as the contact between the Guichon Creek Batholith and the Nicola Volcanics with the embayments along the zone interpreted as a serious of northeast trending faults. This is congruent with the conclusions of Alwin's aeromagnetic survey four years earlier. (ARIS 3459)

In 1973 Indian Mines, which changed its name to Azure Resources Ltd. ("Azure") in 1972, also performed a ground magnetometer survey on their Eden and Ezra claim groups. The Ezra claim group was located south of the Eden claim block, off ground currently held Logan Copper. No significant anomalies were encountered indicating no significant changes in bedrock geology or structure. (ARIS 4321)

1973 to 1975 percussion drilling was conducted by North Pacific, Comet Mining and a privet operator.

Following 1975 little work was recorded in the area and much of the ground described above was dropped. In 1982 Cominco Ltd. ("Cominco") conducted approximately 29.4km of reconnaissance scale muliseparation, induced polarization survey work on their Forge property. The Forge property was located on the southern portion of today's Dansey Project covering approximately the same ground as Azure's Eden claim block. Cominco's work identified a 400m by 850m anomaly open to the north along its long axis and coincident with Indian Mines 1969 IP anomaly (ARIS 10783). Ground check was recommended however no further work is recorded until the property was acquired by Logan Copper Inc., then SNL Enterprises Inc.

Logan Copper Inc. carried out a large Modile Metal Ion ("MMI") Survey in the area of the Dansey Minfile. The survey identified a 1700m by 800m geochemical anomaly centered south of the Dansey Minfile (ARIS 30458). Fallowing the completion of the MMI Survey Logan Copper Inc. carried out a program of reconnaissance prospecting, targeting historically significant geological, geophysical and geochemical anomalies located on the Dansey Project area and within the MMI Central Anomaly identifying many recorded historical showings and numerous unrecorded surface expressions of hydrothermal-porphyry copper mineralization within the Dansey Project area.

6.2. HISTORICAL DRILLING ON THE DANSEY PROJECT

In 1974 North Pacific and Comet Mining carried out a 21 percussion drill-hole program. Drilling was concentrated in three areas. The 21 holes totaled 5230 feet.

Nine of the 21 holes were drilled to a maximum depth of 320 feet along a northsouth running road 1.5 km northwest of the Dab MINFILE. No significant mineralization was intersected. (ARIS 5065)

Drill-holes R.A.-10 through R.A.-14 were drilled immediately south of the Dansey MINFILE. Hole R.A.-14 was terminated after only 50 feet of drilling with the remaining holes reaching depths between 270 and 350 feet and intersecting significant mineralization. According to the assessment report's cost statement all holes were drilled vertically, however little further information is given. No description of the recovered cuttings is provided and it is uncertain what type of mineralization or lithology was intersected by the drill-holes. (ARIS 4984)

The final seven holes were drilled in the southeast corner of the Dansey project area, approximately 1.2km south-southeast of Logan Copper's southern most drilling on the North Zone and approximately 850m east-southeast of Logan Copper's eastern most Midway zone drilling on the southeastern fringe of the MMI Central Anomaly (see section 10.1 MMI PROGRAM). As with holes R.A.-10 through R.A.-14, aside from a hand drawn field map no drill-hole locations are provided and no description is given regarding the percussion drill-hole cuttings.

Assay results from these holes were on average significantly lower than those drilled immediately south of the Dansey MINFILE. However, hole R.A.-17 located at the northern extent of this drill area returned with "2000+" ppm over 30 feet. (ARIS 4983)

In assessment report 5851 the author Dr. L. E. Ross described a four percussion drill-hole program conducted on ground located east of the Dansey MINFILE and west of Guichon Creek. Drilling was conducted to test sporadic geochemical highs on a slope covered with heavy overburden. Drilling encountered overburden between 40 and 120 feet. No significant mineralization was encountered. Maximum depth on the four dill-holes was 140 feet with total drill footage being 480 feet.

Numerous other drilling has been referenced in assessment reports however little to no information has been found regarding these drill holes. Prior to 1972 at least four diamond drill-holes were drilled on Alwin's RM claim block located east of their DAB and HJ claim blocks. (ARIS 3459) No locations, results or descriptions of the drilling were disclosed and it is unclear where information on this drilling maybe available.

In 2008 SNL Enterprises drilled 7 diamond drill holes and intersepted copper mineralization in all holes, largely located in a sereas of faults as vainlets and disseminated with some masive sulfide. One hole also intersected some limited molybdemum. Follow up drilling was recommended for 2009.

7. REGIONAL GEOLOGY

The Logan Copper property is located on the southern Intermontane Belt of British Columbia on the southern extent of the Quesnel Trench. The central geological features of this region are the Late Triassic island-arc volcanic rocks of the Nicola Group, and Late Triassic mudstone, siltstone and shale clastic sedimentary rocks located to the east, and intruded granodioritic rocks of the Late Triassic to early Jurassic. The Nicola Group is a succession of Late Triassic island-arc volcanic rocks. The Nicola Group volcanic rocks form part of a 30km to 60km wide northwest-trending belt extending from southern B.C. into the southern Yukon. This belt is enclosed by older rocks and intruded by batholiths and smaller intrusive rocks. Major batholiths in the area of the Logan Copper Property include the Guichon Creek Batholith to the west, the Wild Horse Batholith to the east, and the Iron Mask Batholith to the north northeast. Figure 5 shows the regional geology. The Guichon Creek batholith is a large, composite intrusion with a surface area of about 1,000 square kilometers. A cluster of nine major porphyry copper deposits lie within a 15 square kilometer zone in the center of the batholith. The Dansey Project area is situated eastern edge of the Guichon Creek Batholith, just northeast of these deposits.

The batholith is a semi-concordant composite intrusive that is elliptical and elongated slightly west of north. A central, steeply plunging root or feeder zone is inferred under Highland Valley, and the major deposits lie around the projection of the feeder zone to the surface. The batholiths has intruded and metamorphosed island-arc volcanic and associated sedimentary rocks of the Nicola Group, and a metamorphic halo up to 500 meters wide is developed adjacent to the contact. Rocks along the edge of the batholith are older and more mafic, and successive phases moving inward toward the core are younger and more felsic. Although contacts can be sharp, they are generally gradational and chilled contacts are not common. Variations in the batholiths geochemistry indicate local areas of assimilated country rock in the border zone and roof pendants in the intrusion. Outcrop areas have inclusions of amphibolite and “granitized” metamorphic rocks and compositional variations.

Two younger volcanic-dominated successions are important in the area. First, a northwest trending belt of Cretaceous continental volcanic and sedimentary rocks of the Spences Bridge Group unconformably overlie both the Nicola Group country rock and intrusive rocks along the southwest flank of the batholith. Distribution of the Spences Bridge Group rocks was locally controlled by reactivation of older faults that were important mineralization conduits in the batholith, such as the Lornex fault. Second, continental volcanic and sedimentary rocks of the Tertiary Kamloops Group cover extensive areas of the batholith and also overlie Triassic and Jurassic rocks from north of Highland Valley to the Thompson River. These also form isolated outliers and local intrusive centers south of the Highland Valley.

8. PROPERTY GEOLOGY

The Dansey Project area of the Logan Copper property is situated at the eastern edge of the Guichon Creek batholith and overlies the contact between the Highland Valley Phase and the Border Phase of the Guichon Batholith. Three main rock types are evident and are comprised of diorite, quartz diorite and granodiorite with in two phases of the Guichon Creek Batholith. Figure 4 shows the local geology of the Dansey Project Area.

The North Zone lies within the border phase of the Guichon Creek Batholiths (dioritic intrusive bodies), close to the contact zone between the Guichon Creek Batholith and the Nicola Geroup Volcanics. The intersected Nicola Volcanic consists mainly of dark to black fine-grained and cryptocrystalline mafic rock.

Most of this zone is covered by overburden. The main types of intrusive rocks seen in the outcrops and in the drill core are diorite and quartz diorite with chlorite-epidote, potassic, quartz, carbonate and hematite alterations. Cataclastic diorite, cataclastics, breccias and fault gouge are seen in this zone.

Surface mapping and surface drilling indicated northeast and northwest-striking faults are well-developed in the area (Figure 6). Both holes described in this report were located in the block confined by these two groups of faults. Most of the copper mineralization intervals intercepted in the drill holes in this zone fall within the fault zones.

The Midway Showing located 1.3km south of the two drill holes lies within the Highland Valley Phase of the Guichon Creek Batholith and is close to the contact between the Highland Valley Phase and the Border phase. Surface mapping indicated that there is a joint of faults, striking northwest, southeast, and southwest, in the intrusive body near this area.

Much of this area is also covered by overburden. The main types of intrusive rocks seen in the outcrops are diorite and quartz diorite with chlorite, potassic, quartz, carbonate and hematite alterations. Northeast striking quartz veins, ranging from several meters to 150 meters in width, are only distributed west of the northeast-striking faults. Cataclastic diorite, cataclastics, breccias and fault gouge are also seen in this area.

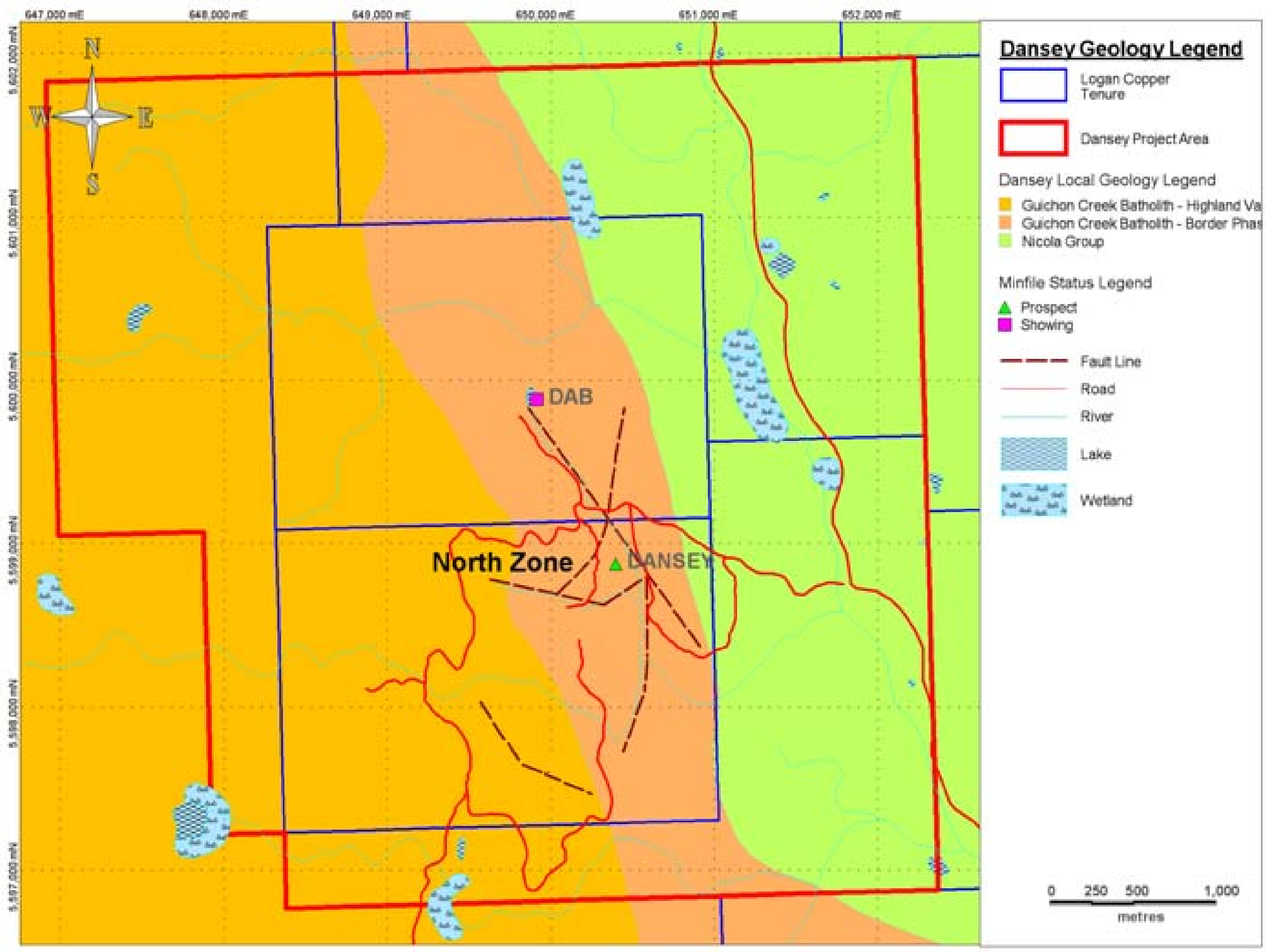

FIGURE 4: LOCAL GEOLOGY DANSEY PROJECT AREA

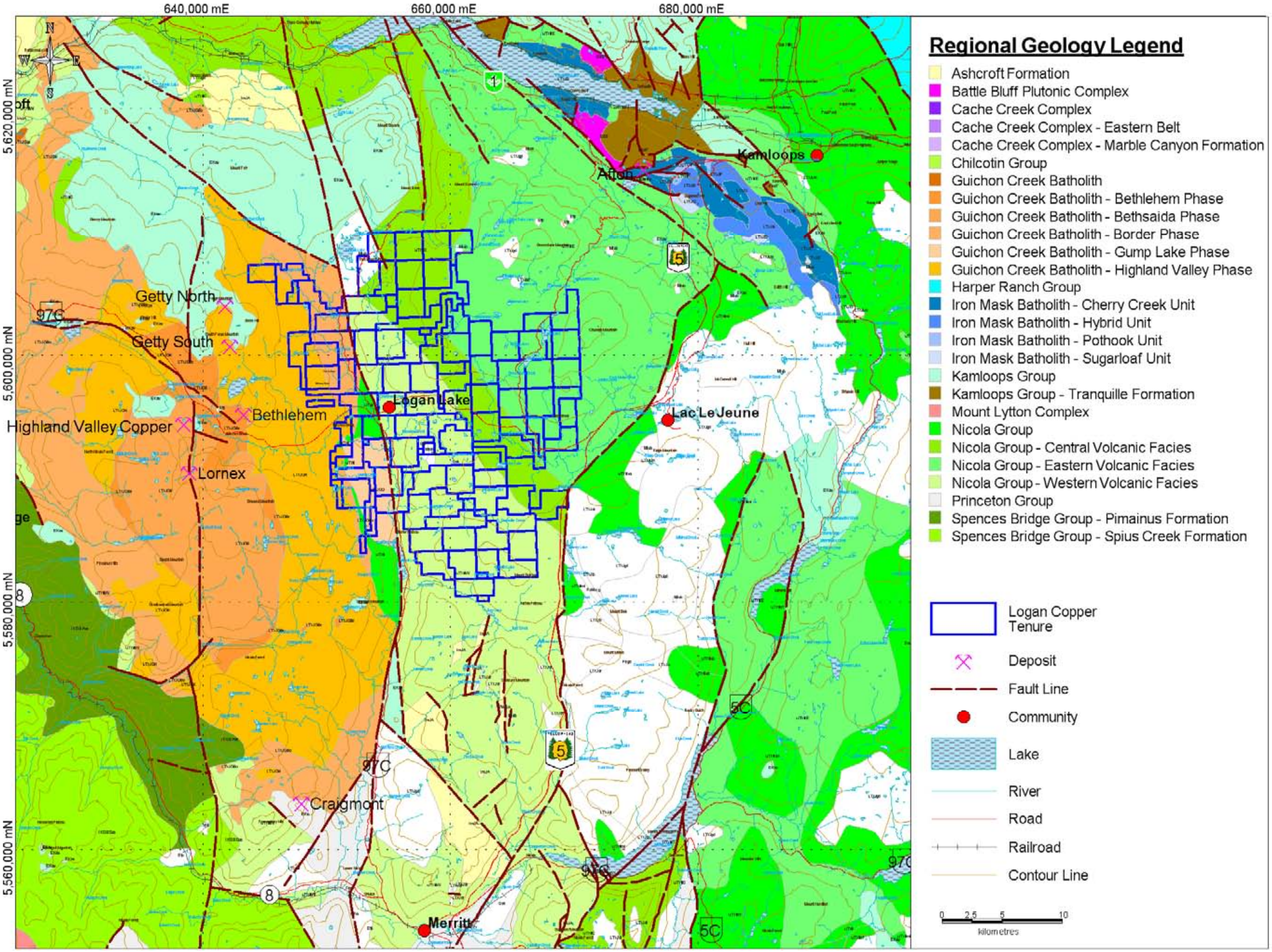

FIGURE 5: REGIONAL GEOLOGY

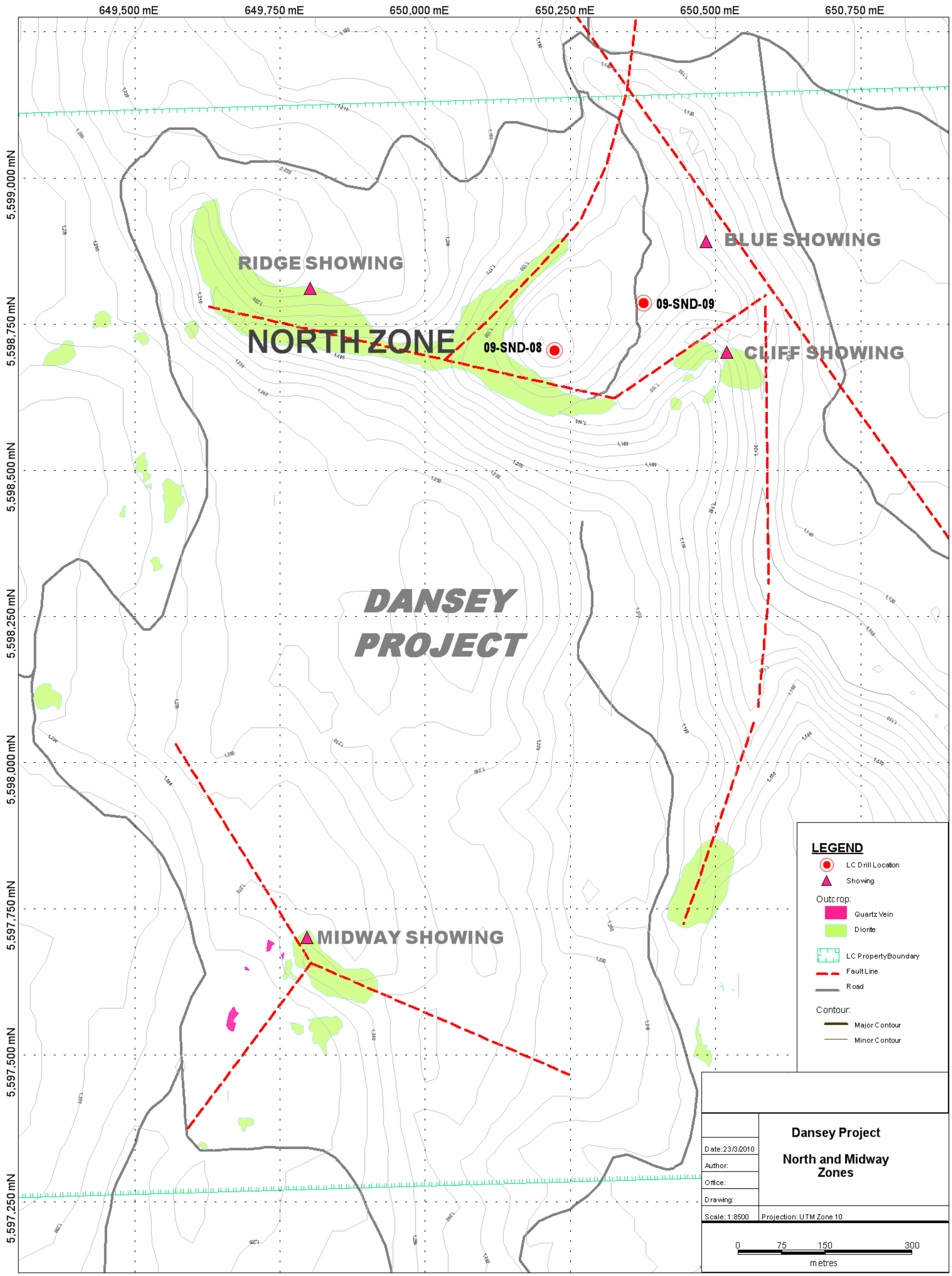

FIGURE 6: GEOLOGICAL MAPING

9. MINERALIZATION

Copper mineralization on the Dansey Project area is characterized by hydrothermal-porphyry style mineralization. The main primary minerals on the North Zone includes chalcopyrite and pyrite, with minor amounts of bornite and molybdenite. Chalcopyrite and pyrite occur mainly as veinlet, stringer, dissemination, batches, and massive structures in the chlorite-altered diorite, chlorite-epidote altered diorite, and chlorite-quartz altered diorite. Bornite is seen in limited locations on surface and in drill holes. Molybdenite is only seen at two locations: from 46.10 m to 46.20m and from 47.30m to 47.40m in drill hole 08-SND-06, drilled in 2008, as dissemination in pyrite and chalcopyrite veinlets. The main secondary mineral in this area is malachite and azurite. Malachite is widely distributed in oxide zones or in the fractures, occurring as blebs, splashes and dissemination, and usually accompanied by iron oxides. Azurite occurs as dissemination, massive structures and is distributed along the fractures and in breccias. The copper mineralization intercepted in the North Zone is distributed irregularly in space much of the significant copper mineralization intervals fall within a series of fault zones which are still open to depth with minor sulfide mineralization.

10. EXPLORATION

In 2009 the company continued its reconacence prospecting and identifing several additional instances of significant copper mineralization at surface, including the Cliff showing the, Ridge showing, the Blue showing and the Midway showing.

The 2009 Dansey exploration program included the drilling of two NQ diamond drilling holes on the North Zone: 09-SND-08 and 09-SND-09, totaling 442 meters. Hole locatins are listed below in Table 3.

TABLE 3: DANSEY PROJECT DRILL HOLE DETAILS

Hole ID	UTM Zone 10		Elevation	Azimuth	Dip	Length (m)
	Easting	Northing				
09SND08	650223	5598705	1190	120	-45	206.72
09SND09	650377	5598786	1164	125	-65	235.00

Results of selected intervals from drill holes 09-SND-08 and 09-SND-09 are highlighted by Table 4 and Figure 7 below.

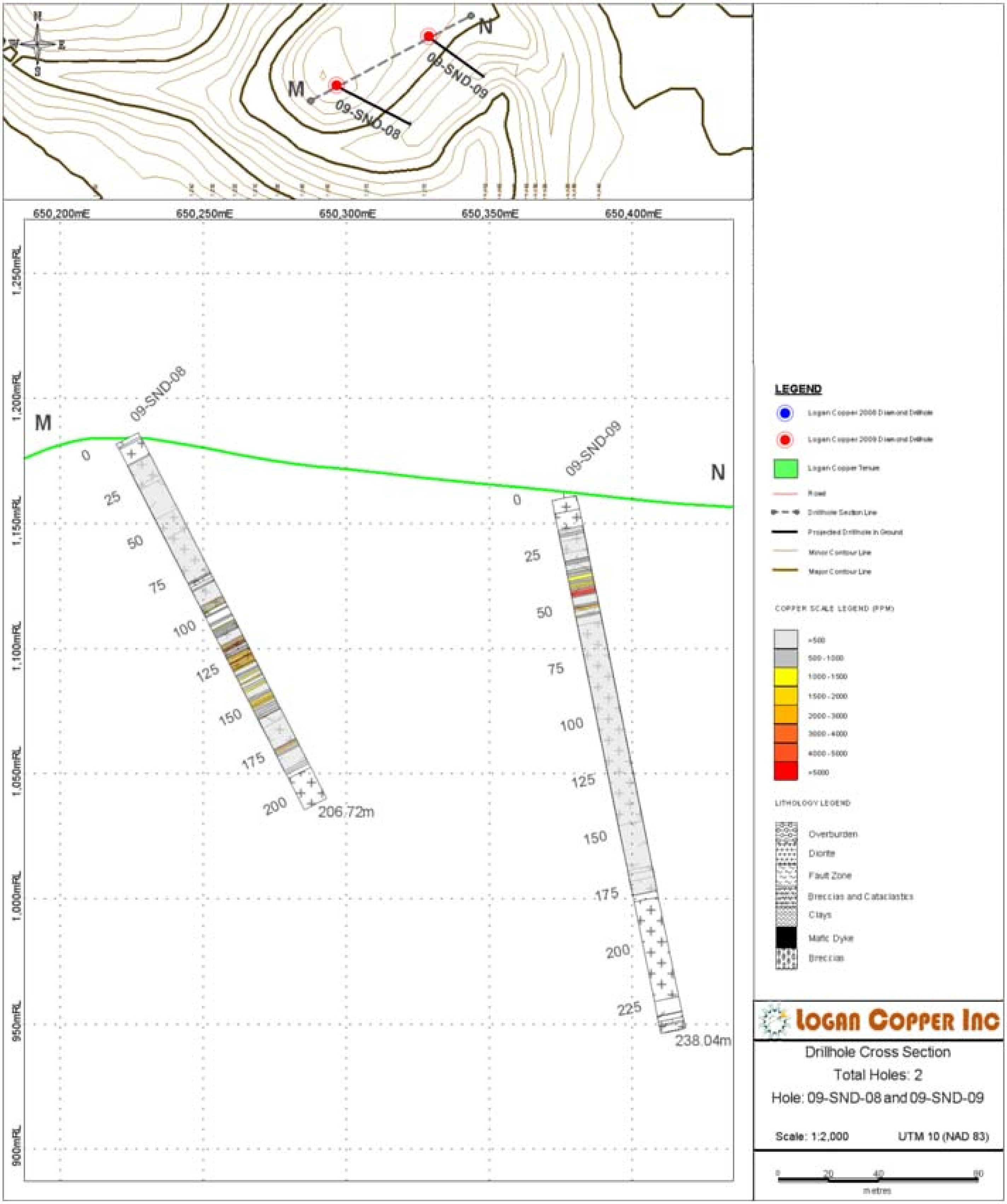

FIGURE 7: CROSS SECTION OF 09-SND-08 AND 09-SND-09

TABLE 4: 09-SND-08 AND 09-SND-09 SIGNIFICANT COPPER MINERALIZATION INTERVALS

Drill hole #		Start (m)	End (m)	Interval (m)	Copper (%)
09-SND-08		92.04	95.39	3.35	0.10
		105.33	106.03	0.7	0.13
		114.23	129.13	14.90	0.20
		132.85	133.90	1.05	0.15
		135.65	136.70	1.05	0.16
		139.66	140.83	1.17	0.12
		145.41	149.75	4.34	0.16
		152.65	156.05	3.40	0.12
		173.74	174.79	1.05	0.21
09-SND-09		36.04	45.40	9.36	0.30
	including	44.20	45.40	1.20	1.20
		50.58	51.86	1.28	0.20
		230.36	230.66	0.30	0.11

In 09-SND-08 some of significant copper mineralization intervals fall within in fault zones. In 09-SND-09 from 30.00m to 58.50m all of the significant copper mineralization lies within the fault zone.

The drill holes return with an average core recovery of more than 90% (see Appendix I core recovery of Drill holes). Core recovery of mineralization intervals generally returned approximately 90% or greater. Core samples were generally taken at one meter intervals or smaller where more specific geological information was required, or as large as 1.5 meter intervals, where there was no significant copper mineralization and the alteration was weak. Intervals with no visible mineralization or alteration and within lithological units considered not prospective were not tested.

11. SAMPLING METHOD AND APPROACH

In 2009, diamond drilling was performed by Rampart Ventures Ltd using NQ size core. The drill core was preliminarily quickly logged on site and then was brought from the drill site by truck to a rented storage and core shack in Lower Nicola, west of Merritt, B.C, where the core was logged in detail and photographed before samples were split using an electrical rock saw. Half of the core was archived in the core shack, the other half of the core and a sample tag were placed into 12X20 inch plastic bags, and prepared for transport Pioneer Laboratories Inc. for analysis.

At Pioneer Laboratories samples were lined according to numerical sequence and dried at 60 degrees Celsius. The dried samples were crushed and split with a riffle splitter. For analysis, 250 gram of the split sample was pulverized to -100 mesh (≥90%). The residual crushed sample are retained in the original bag and returned to the client.

Multi-element ICP Analysis - 0.500 gram sample is digested with 3 ml of aqua regia, diluted to 10 ml with water. This leach is partial for B, Ba, Cr, Fe, Mg, Mn, Na, P, S, Sn, Ti and limited for Na, K and Al. Elements in solution are determined by ICP/ES.

Cu, Pb, Zn Analysis: 1.000 gm sample is digested with 50 ml of aqua regia, diluted to 100 ml with water. Cu, Pb and Zn contents are determined by atomic absorption spectrometer.

Au Analysis: 20 gram sample is digested with 60 ml of aqua regia, diluted to 150 ml with water. Gold in solution is concentrated with MIBK. Au content in MIBK is determined by atomic absorption spectrometer or graphite furnace AA.

12. INTERPRETATION AND CONCLUSIONS

Drill hole 09-SND-08 and 09-SND-09 drilled on the Dansey Project area both contained significant copper mineralization and 09-SND-09 remains open at depth. Both drill holes are located on a copper-gold-molybdenum-silver geochemical MMI Anomaly discovered by the Company in 2008. Aditionaly the drilling is located near a regionally significant contact on the eastern edge of the Guichon Creek Batholith, a Jurassic-age intrusive hosting numerous significant mineral deposits.

In summary, we believe the Dansey Project area provides several interesting and promising targets for significant hydrothermal-porphyry copper mineralization.

12.1. RECOMMENDATIONS

The following are recommendations based on the interpretation of current exploration results on the Dansey Project area:

Significantly deeper drill holes will be of priority in the coming drilling program. Deeper drilling will test for more significant copper mineralization at depth. The potential for stronger copper mineralization at depth is supported by the presence of copper mineralization open at depth in hole 09-SND-09

Although the northcentral part (North Zone drilling) of the MMI Central Anomaly has been subjected to preliminery drilling by Logan Copper Inc., a large area of the anomaly remains covered by overburded and untested. This area overlies the contact between the Highland

Valley Phase and the Border Phase of the Guichon Creek Batholith and is located at the center of the MMI Central Anomaly. This area requires extensive exploration including trenching to expose bedrock and potentially an Induced Polarization survey to define future drill targets.

13. REFERENCES

Hemsworth, Fred J. *Geochemical survey of the Eden Claims for New Indian Mines Ltd, Vananda explorations Ltd.* Highland Valley, BC. 1966 (***ARIS 711)***

Crosby, Richard O. *Aeromagnetic survey on some HJ and DAS mineral claims Tunkwa Lake area, British Columbia*. British Columbia. 1968 (***ARIS 1166***)

Cochrane, D. R. *Aeromagnetic Survey of the AB, Bill, Mike, J.B., Tom and XY Claims, west of Guichon Creek on Bose Hill*. Highland Valley, BC. 1968

Pringle, D. W. *Physical work required for present Airborne Magnetometer Survey and future Geological and Geophysical Surveys on Mineral Claims or North Pacific Mines Ltd*. Highland Valley, BC. 1968 (***ARIS 1585***)

Crowhurst, J. J. *Geochemical Survey on the R.M. and DAB Claim groups*. Highland Valley, BC. 1969 (***ARIS 1787***)

Knauer, J. D. *Geochemical Soil Survey, Mike 1 & 2 Fractions & Mike 1-10, Bill 2-11, JB 20-21 Mineral Claims.* Kamloops Mining Division, BC. 1969 (***ARIS 1934***)

Knauer, J. D. *Geochemical Soil Survey, JB 1-4, JB 7-10, Tom 3-10, IG #1 Fraction*. Kamloops Mining Division, BC. 1969 (***ARIS 1935***)

Pringle, D. W. *Geochemical Survey on X-Y Claims*. Highland Valley, BC. 1969 (***ARIS 2024***)

Knauer, J. D. *Geochemical Soil Survey, Tom 1-2, Tom 9-20, JB 2-17, JB 9-12, JB 20-23, JB 25-28 and I.G. #1 Fraction Mineral Claims*. Kamloops Mining Division, BC. 1969 (***ARIS 2066***)

Baird, Jon G. *Induced Polarization Survey on some CL Claims*. Highland Valley, BC. 1969 (***ARIS 2114***)

Fountain, David K. *Induced Polarization and Resistivity Survey on the Dansey property*. Highland Valley, BC. 1969 (***ARIS 2282***)

Pierre, W. H. Magnetometer Survey of the XY Claims, Four way corner area. Highland Valley, BC. 1970 (***ARIS 3184***)

Read, W. S. *Geophysical Report, J.T. 1 Fr., R.M. 1, 2 Fr., R.M. 1-6, R.M. 25-27 Mineral Claims*. BC. 1972 (***ARIS 3459***)

Scott, John W. *Percussion Drilling report on the XY group of Mineral Claims of Comet Industries*. Kamloops Mining Division, BC. 1973 (***ARIS 4983***)

Scott, John W. *Percussion Drilling report on the Tom group of Mineral Claims of North Pacific Mines Ltd*. Kamloops Mining Division, BC. 1973 (***ARIS 4984***)

Scott, John W. *Percussion Drilling report on the #1 BCD group of Mineral Claims of Comet Industries*. Kamloops Mining Division, BC. 1973 (***ARIS 5065***)

Ross, Lorne E. *Percussion Drilling report on WA #1 Mineral Claim*. Kamloops Mining Division, BC. 1975 (***ARIS 5851***)

Klein, J. *Geophysical Report on Induced Polarization and Resistivity Surveys on Forge Property*. Highland Valley, BC. 1982 (***ARIS 10783***)

Mark, David G. *Geochemistry report on MMI soil sampling surveys on the Dansey, Noname, and Last SNL grids within the Logan Lake area*. Kamloops mining division, BC. 2008 **(ARIS 30458)**

Bergy, William R. *Geological Report on the Highland Valley Property*. Highland Valley, BC.2009

Ager, C.A., McMillan, W.J and Ulrych, T.J. *Gravity Magnetics and Geology of the Guichon Creek Batholith*. British Columbia Department of mines and Petroleum Resources. Bulletin 62. 1972

Peterson, Nathan T et al. "Provenance of Jurassic sedimentary rocks of south-central Quesnellia, British Columbia: Implications for Paleogeography". *Canadian Journal of Earth Science* 41 (2004): 103-125. NRC Canada.

Moore, John M. *Nicola Horst, Southern British Columbia Window into the pre- Triassic margin of North America*. Geological Survey of Canada. Vancouver, 2000

Dr Anderson, Corby G. *Getty Copper Receives a Positive Preliminary Feasibility Study from West Coast Environmental and Engineering on the Getty Project*. 22nd July 2009. Getty Copper Inc. 7th April 2010 <http://www.gettycopper.com/index.php?view=article&catid=14%3A2009&id=109%3A2009+Pre-Feasibility+Results&option=com_content&Itemid=18>

Freberg, Mark. *Teck Reviewing Further Mine Life Extension at Highland Valley Copper*. 14 May 2009. Teck Highland Valley Copper Corporation. 7th April 2010 <http://www.teck.com/Generic.aspx?PAGE=Operations+Pages%2FCopper+Pages%2FHighland+Valley+Copper&portalName=tc>

Teck Resources Limited. *2008 Annual Report*. 7th April 2010 <*http://www.teck.com/Generic.aspx?PAGE=Investors%20Pages/Annual%20Financial%20Report&portalName=tc>*

Teck Resources Limited. *Annual Information Form March 13.2009*. 7th April 2010 <http://www.teck.com/Generic.aspx?PAGE=Investors+Pages%2fPublic+Filings&portalName=tc>

14. CERTIFICATES

I, Dr. Pan Zhonghua of 22-6233 Birch Street, Richmond, British Columbia, hereby certify that:

I am presently employed by Logan Copper Inc. of Ladner, British Columbia, Canada as a Geologist.

1. I hold a Ph.D. in Geology from the Institute of Geology, Chinese Academy of Sciences, a Master's of Science in Geology from China University of Geosciences, Beijing, and a Bachelor's of Engineering in Geology from Changchun College of Geology (Jilin University), China.
2. I have over 10 years combined experience in mineral resource exploration in Canada and China, and have worked as Geologist for several Canadian exploration and mining companies.
3. This certificate applies to the report describing NQ diamond drilling exploration conducted on Logan Copper Inc.'s Dansey Project area in 2009.

Zhonghua Pan

Dr. Pan Zhonghua, PH.D

April 13, 2010

Date

APPENDIX I - DRILL-HOLE CORE RECOVERY

Core Recovery

Drill hole #	From (m)	To (m)	Interval (m)	Core (m)	Recovery (%)
09-SND-08	0.00	3.04	3.04	-	Casing
	3.04	6.08	3.04	2.85	93.75
	6.08	9.12	3.04	2.97	97.70
	9.12	12.16	3.04	2.95	97.04
	12.16	15.20	3.04	2.80	92.11
	15.20	18.24	3.04	2.80	92.11
	18.24	21.28	3.04	2.90	95.39
	21.28	24.32	3.04	2.55	83.88
	24.32	27.36	3.04	2.95	97.04
	27.36	30.40	3.04	2.50	82.24
	30.40	33.44	3.04	2.30	75.66
	33.44	36.48	3.04	2.60	85.53
	36.48	39.52	3.04	2.50	82.24
	39.52	42.56	3.04	2.60	85.53
	42.56	45.60	3.04	2.25	74.01
	45.60	48.64	3.04	2.95	97.04
	48.64	51.68	3.04	2.80	92.11
	51.68	54.72	3.04	2.80	92.11
	54.72	57.76	3.04	3.03	99.67
	57.76	60.80	3.04	3.01	99.01
	60.80	63.84	3.04	2.95	97.04
	63.84	66.88	3.04	2.75	90.46
	66.88	69.92	3.04	3.04	100.00
	69.92	72.96	3.04	3.00	98.68
	72.96	76.00	3.04	2.92	96.05
	76.00	79.04	3.04	3.02	99.34
	79.04	82.08	3.04	2.92	96.05
	82.08	85.12	3.04	2.60	85.53
	85.12	88.16	3.04	3.00	98.68
	88.16	91.20	3.04	3.02	99.34
	91.20	94.24	3.04	2.70	88.82
	94.24	97.28	3.04	2.75	90.46
	97.28	100.32	3.04	3.05	100.33

	100.32	103.36	3.04	2.10	69.08
	103.36	106.40	3.04	2.95	97.04
	106.40	109.44	3.04	3.04	100.00
	109.44	112.48	3.04	3.04	100.00
	112.48	115.52	3.04	3.04	100.00
	115.52	118.56	3.04	3.04	100.00
	118.56	121.60	3.04	3.04	100.00
	121.60	124.64	3.04	2.95	97.04
	124.64	127.68	3.04	3.05	100.33
	127.68	130.72	3.04	2.85	93.75
	130.72	133.76	3.04	2.90	95.39
	133.76	136.80	3.04	3.05	100.33
	136.80	139.84	3.04	2.00	65.79
	139.84	142.88	3.04	2.90	95.39
	142.88	145.92	3.04	3.04	100.00
	145.92	148.96	3.04	3.00	98.68
	148.96	152.00	3.04	2.80	92.11
	152.00	155.04	3.04	1.65	54.28
	155.04	158.08	3.04	3.04	100.00
	158.08	161.12	3.04	2.70	88.82
	161.12	164.16	3.04	2.90	95.39
	164.16	167.20	3.04	2.20	72.37
	167.20	170.24	3.04	2.70	88.82
	170.24	173.28	3.04	2.75	90.46
	173.28	176.32	3.04	2.40	78.95
	176.32	179.36	3.04	1.90	62.50
	179.36	182.40	3.04	3.04	100.00
	182.40	185.44	3.04	0.90	29.61
	185.44	188.48	3.04	2.75	90.46
	188.48	191.52	3.04	2.70	88.82
	191.52	194.56	3.04	2.75	90.46
	194.56	197.60	3.04	3.00	98.68
	197.60	200.64	3.04	2.90	95.39
	200.64	203.68	3.04	3.04	100.00
	203.68	206.72	3.04	3.04	100.00
		EOH		Average:	90.82
09-SND-09	0.00	6.08	6.08	-	Casing
	6.08	9.12	3.04	2.20	72.37
	9.12	12.16	3.04	1.50	49.34

12.16	15.20	3.04	2.45	80.59
15.20	18.24	3.04	2.90	95.39
18.24	21.28	3.04	2.30	75.66
21.28	24.32	3.04	2.80	92.11
24.32	27.36	3.04	3.00	98.68
27.36	30.40	3.04	2.40	78.95
30.40	33.44	3.04	3.04	100.00
33.44	36.48	3.04	3.04	100.00
36.48	39.52	3.04	2.20	72.37
39.52	42.56	3.04	3.04	100.00
42.56	45.60	3.04	2.45	80.59
45.60	48.64	3.04	2.80	92.11
48.64	51.68	3.04	3.04	100.00
51.68	54.72	3.04	3.04	100.00
54.72	57.76	3.04	3.04	100.00
57.76	60.80	3.04	3.04	100.00
60.80	63.84	3.04	3.04	100.00
63.84	66.88	3.04	3.00	98.68
66.88	69.92	3.04	2.95	97.04
69.92	72.96	3.04	3.04	100.00
72.96	76.00	3.04	3.04	100.00
76.00	79.04	3.04	3.04	100.00
79.04	82.08	3.04	3.01	99.01
82.08	85.12	3.04	3.04	100.00
85.12	88.16	3.04	2.71	89.14
88.16	91.20	3.04	2.71	89.14
91.20	94.24	3.04	3.04	100.00
94.24	97.28	3.04	2.80	92.11
97.28	100.32	3.04	3.04	100.00
100.32	103.36	3.04	3.04	100.00
103.36	106.40	3.04	3.04	100.00
106.40	109.44	3.04	2.90	95.39
109.44	112.48	3.04	3.04	100.00
112.48	115.52	3.04	3.04	100.00
115.52	118.56	3.04	2.90	95.39
118.56	121.60	3.04	2.90	95.39
121.60	124.64	3.04	2.92	96.05
124.64	127.68	3.04	2.45	80.59
127.68	130.72	3.04	3.04	100.00

	130.72	133.76	3.04	2.95	97.04
	133.76	136.80	3.04	2.87	94.41
	136.80	139.84	3.04	2.90	95.39
	139.84	142.88	3.04	2.95	97.04
	142.88	145.92	3.04	2.93	96.38
	145.92	148.96	3.04	2.10	69.08
	148.96	152.00	3.04	2.65	87.17
	152.00	155.04	3.04	2.90	95.39
	155.04	158.08	3.04	2.55	83.88
	158.08	161.12	3.04	2.90	95.39
	161.12	164.16	3.04	2.55	83.88
	164.16	167.20	3.04	2.85	93.75
	167.20	170.24	3.04	2.60	85.53
	170.24	173.28	3.04	2.65	87.17
	173.28	176.32	3.04	2.40	78.95
	176.32	179.36	3.04	2.82	92.76
	179.36	182.40	3.04	2.75	90.46
	182.40	185.44	3.04	2.97	97.70
	185.44	188.48	3.04	2.65	87.17
	188.48	191.52	3.04	3.04	100.00
	191.52	194.56	3.04	2.87	94.41
	194.56	197.60	3.04	3.04	100.00
	197.60	200.64	3.04	2.95	97.04
	200.64	203.68	3.04	2.80	92.11
	203.68	206.72	3.04	2.88	94.74
	206.72	209.76	3.04	2.98	98.03
	209.76	212.80	3.04	2.85	93.75
	212.80	215.84	3.04	3.04	100.00
	215.84	218.88	3.04	2.65	87.17
	218.88	221.92	3.04	3.02	99.34
	221.92	224.96	3.04	2.95	97.04
	224.96	228.00	3.04	3.04	100.00
	228.00	231.04	3.04	2.70	88.82
	231.04	235.00	3.96	3.00	75.76
		EOH		Average:	92.57

APPENDIX II - DRILL-HOLE LOGGING

Glossary of Terms
chl: chlorite
ep: epidote
cpy: chalcopyrite
py: pyrite
qz: quartz
hem: hemetite
cc: calcite
kspar: potassic feldspar
carb: carbonate
diss: disseminated
str.: stinger

Logan Copper Inc		Dansey Project	
Drill Hole ID	09-SND-08		
Collar	0650223m E	5598705m N	1190m Elevation
Azimuth	120 degree		
Dip	-45 degree		
Length	206.72m		
Starting date	7-Jun-09		
Ending date	12-Jun-09		
Logged by	Zhonghua (John) Pan		
Date	19-Jun-09		

Hole ID	From (m)	To (m)	Rock Type	Structures	Mineralization Type	Minerals	Mag. Susceptibility	Description
09-SND-08	0.00	2.00						Casing
	2.00	3.05	diorite					Broken core of grey medium-grained diorite. (Generally, the following diorite core in this drill hole is magnetic and sericite occurs in most of the core.)
	3.05	12.19	diorite	veinlets		chlorite		Weakly chlorite-altered diorite
	12.19	12.80	diorite	veinlets, splashes	oxide	chlorite, epidote, malachite		Chlorite and epidote-altered diorite. Splashes of malachite seen at12.35m
	12.80	23.80	diorite	veinlets, fracture		chlorite,cc, qz		Weakly chloritic grey diorite with brown to dark reddish fractured planes. Veinlets of calcite (cc) and quartz (qz) seen locally.
	23.80	25.88	diorite	veinlets, stockwork		chlorite, ep, cc, qz		Chlorite- and epidote-altered grey to dark green diorite. Epidote (ep) occurs mainly as veinlets or stockworks with cc and qz veinlets.

	25.88	42.76	Fault zone	brecciated, cataclastic, veinlets,	oxide	chlorite, ep, limonite, cc, qz		Fault zone. Core is semi-broken. The fault zone consists of fragments of (1) chlorite- and epidote-altered diorite (25.88-29.48m) with cc and qz veinlets @60 dg to CA. Cataclastic breccia with strong epidote alteration seen from 27.53-to 27.73m; and (2) brown to dull reddish diorite with limonite and other iron oxides cut by irregular cc+ qz veinlets; and (3) chlorite- altered diorite.
	42.67	53.76	diorite	veinlets		chlorite, cc, qz		Grey to dark grey diorite cut by sparsely veinlets of cc and qz.
	53.76	97.85	diorite	veinlets, stockworks, stringer, splashes	sulfide and oxide	chlorite, ep, py, cpy, arsenopyrite(?), malachite, cc, qz		Chlorite- and epidote- altered diorite. Minor pyrite (chalcopyrite and arsenopyrite ?) mineralization occurs mainly in ep(+cc+qz) veinlets (1mm to 1.5cm) or stockworks as stringers at different intervals in this unite. These veinlets @ 30 to 70 dg to CA. Small splashes of malachite seen at 59.00m and 59.40m.
	97.85	105.33	Fault zone			clays		Fault zone, consisting of light grey gouge (97.88-98.30m) and semi-broken core of grey diorite
	105.33	128.42	diorite	veinlets, stockworks, stringer, massive	sulfide	chlorite, ep, py, cpy, arsenopyrite(?), cc, qz		Chlorite- and epidote- altered diorite. Pyrite (chalcopyrite and arsenopyrite ?) mineralization occurs mainly in ep(+cc+qz) veinlets or stockworks (up to 25cm core interval) as stringers and pieces of massive at different intervals that are denser than those in the previous unite. These veinlets @30-50 dg to CA.
	128.42	160.55	Fault zone	brecciated	oxide, sulfide	clays, chlorite, hematite, other iron oxides, py		Fault zone, consisting of (1) grey to light green chlorite-altered gouge; (2) dull reddish hematite and iron oxide gouge; and (3) breccia and small amounts of broken core. Py mineralization seen in the broken core. Dark green to black gouge and breccia seen at 155.45 to 156.00m
	160.55	172.74	diorite	veinlets	oxide	hematite, chlorite, qz,cc		dull rddish hematite-altered diorite alternatively with dark green chlorite-altered diorite cut by qz+cc veinlets locally.
	172.74	185.90	Fault zone	brecciated		clays, chlorite		Fault zone, consisting light green chlorite-altered breccia and gouge
	185.90	186.85	diorite	veinlets	oxide	chlorite, hematite		chlorte- and hematite- altered diorite
	186.85	188.98	Fault zone	veinlets		chlorite		fault zone, There is only 10cm completely broken core of chlorite-altered diorite for this unit.
	188.98	206.72	diorite	veinlets	oxide	hematite, chlorite,ep		hematite-and chlorite- altered diorite with local epidote alteration.
		206.72						EOH

Logan Copper Inc		Dansey Project	
Drill Hole ID	09-SND-09		
Collar	0650337m E	5598786m N	1164m Elevation
Azimuth	125 degree		
Dip	-65 degree		
Length	235m		
Starting date			
Ending date			
Logged by	Zhonghua (John) Pan		
Date	27-Jun-09	30-Jun-09	

Hole ID	From (m)	To (m)	Rock Type	Structures	Mineralization Type	Minerals	Mag. Susceptibility	Description
09-SND-09	0.00	3.00						Casing.
	3.00	9.12	diorite	veinlets		chlorite, ep		Broken core of grey medium-grained diorite and breccia with epidote and chlorite-alterd mtx. (Generally, the following diorite core in this drill hole is magnetic and biotite occurs in most of the core.)
	9.12	17.15	diorite					Grey fine-medium grained diorite cut by qz veinlets locally.
	17.15	21.28	diorite	veinlets, massive, stringer	sulfie and oxide	bornite, py,limonite, malachite		Broken and semi-broken core of diorite with massive and stringered bornite, py veinlets, massive limonite and minor malachite locally.
	21.28	26.60	diorite	veinlets	oxide	chlorite, hematite		diorite with weak chlorite and hematite alteration as veinlets locally.
	26.60	30.06	diorite	veinlets, massive	oxide	chlorite, ep, limonite, hematite		Grey to green chlorite and epidote (veinlets) altered diorite and brown and dark reddish limonite (massive) and hematite altered diorite.
	30.06	58.34	Fault zone	brecciated, cataclastic, massive, veinlets	oxide, sulfide	Clays,chlorite, hematite, py, minor cpy		Fault zone: grey to light reddish gouge, breccia and cataclasite. At 30.05m, the fault plane is @45 dg to CA. at 50.80-50.90m, small pieces of massive py and minor cpy.

	58.34	146.50	diorite	veinlets, massive, disseminated	sulfide, oxide	chlorite, epidote, Kspar,qz, cc, hematite, galena, cpy		chlorite- and epidote-altered diorite alternates with potassic diotite at various intervals, cut by mm sized veinlets of cc and qz. Hematite alteration locally. (1) 60.60-64.20m, pieces of massive galena with sparsely disseminated cpy in qz+ cc veinlets.
	146.50	166.30	Fault zone	brecciated, cataclastic, veinlets, disseminated	oxide, sulfide	Clays, chlorite, epidote, Kspar, hematite,qz, cc, py		Fault zone: Grey,light green to light reddish gouge and fragments of chloritic and potassic diorite; cataclasite and breccia. The fault plane @40 dg to CA at 156.70m. At 162.00-162.80m, diss. py in chlorite and epidote altered diorite with cc+
	166.30	168.12	diorite	veinlets, stockworks, stringer, massive		chlorite, epo, Kspar, cc, qz		Potassic diorite and chloritic and epidote altered diorite alternate at various intervals, cut by mm sized veinlets of cc and qz.
	168.12	*174.36*	diorite	veinlets	oxide	chlorite, hematite, qz,cc		Chlorite- and hematite-altered diorite. A small fault zone (grey gouge) seen at 174.10-174.20m
	174.36	*177.24*	Fault zone	cataclastic, veinlets, diss		clays, chlorite,cc, py		Fault zone: grey chlorite-altered cataclasite and gouge; fragments of chlorite-alterd diorite cut by cc veinlets. Diss. py seen at *176.36-176.56m*.
	177.24	*220.79*	diorite	veinlets, disseminated	oxide,sulfide	chlorite, epidote, Kspar,qz, cc, hematite, py		Potassic diorite and chloritic and epidote altered diorite alternate at various intervals, cut by mm sized veinlets of cc and qz locally. Small fault zone (<10cm) and hematite alteration seen locally. At *178.06-186.56*m, sparsely diss py.
	220.79	*229.82*	Fault zone	cataclastic, stockworks, veinlets, diss	oxide, sulfide	chlorite, clays,cc, py		fault zone: cataclasite cut by stockworks of dull pinkish cc ; gouge with diss py locally. The fault plane @35 dg to CA at *230.80*m
	229.82	*235.00*	diorite	veinlets, massive, disseminated	sulfide	chlorite, epidote, qz, cc, , cpy		Chlorite- and epidote -altered diorite cut by cc+qz veinlets with minor Cu mineralization: (1) *230.36-230.66*m, mm sized cc+qz veinlet @40 dg to CA with small pieces of massive cpy. Stringers of cpy also in irregular chlorite and epidote veinlets; (2)*234.40-235.00*m, sparsely diss cpy in chlorite-altered diorite.
		235.00						EOH

APPENDIX III - DRILL HOLE ASSAYS

09-SND-08

Sample No.		From metres	To metres	Interval metres	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm
284301	1/2 core	12.19	12.58	0.39	.1	1.58	16	<5	95	<10	1.32	<1	16	46	349	3.00	.10	1.44	649
284302	1/2 core	29.48	30.48	1.00	.2	2.15	18	<5	54	<10	4.85	<1	19	27	188	3.91	.09	1.73	716
284303	1/2 core	30.48	31.68	1.20	.1	1.36	9	<5	34	<10	7.15	<1	20	22	295	3.54	.06	.82	791
284304	1/2 core	31.68	32.98	1.30	.1	2.22	20	<5	36	<10	4.53	<1	18	35	139	3.60	.10	1.68	725
284305	1/2 core	32.98	33.92	0.94	.2	1.81	6	<5	36	<10	4.15	<1	16	29	144	3.34	.11	1.47	585
284306	1/2 core	36.67	37.62	0.95	.1	1.48	7	<5	29	<10	7.08	<1	14	28	57	2.80	.09	.65	633
284307	1/2 core	75.50	76.20	0.7	.2	1.62	8	<5	29	<10	1.43	<1	19	32	342	3.38	.08	1.31	540
284308	1/2 core	76.20	76.78	0.58	.4	1.52	11	<5	26	<10	1.21	<1	43	31	370	3.58	.07	1.19	435
284309	1/2 core	76.78	77.70	0.92	7.4	1.37	18	<5	174	<10	1.51	<1	13	40	95	3.08	.23	1.09	343
284310	1/2 core	77.70	78.65	0.95	.2	1.39	7	<5	276	<10	1.08	<1	14	42	105	2.97	.15	1.19	402
284311	1/2 core	78.65	79.30	0.65	.5	1.52	<5	<5	26	<10	1.21	<1	15	42	651	2.40	.06	1.42	606
284312	1/2 core	79.30	79.82	0.52	.4	1.82	6	<5	28	<10	1.33	<1	16	44	949	2.88	.05	1.68	682
284313	1/2 core	81.25	82.07	0.82	.3	1.60	<5	<5	225	<10	2.16	<1	53	34	125	2.70	.04	1.34	523
284314	1/2 core	82.07	82.79	0.72	.2	1.67	<5	<5	78	<10	1.43	<1	28	40	283	3.07	.08	1.31	382
284315	1/2 core	82.79	83.59	0.8	.6	1.40	<5	<5	267	<10	.86	<1	21	46	544	3.22	.16	1.27	380
284316	1/2 core	83.59	84.44	0.85	.5	1.47	<5	<5	123	<10	1.09	<1	17	49	133	3.07	.13	1.17	333
284317	1/2 core	86.54	87.29	0.75	.2	1.55	11	<5	45	<10	1.10	<1	14	47	139	3.12	.07	1.29	517
284318	1/2 core	87.29	87.9	0.61	.1	1.60	<5	<5	79	<10	1.15	<1	19	47	410	3.64	.08	1.23	488
284319	1/2 core	91.14	92.04	0.9	.2	1.39	22	<5	56	<10	1.06	<1	14	32	116	3.29	.10	1.08	360
284320	1/2 core	92.04	92.84	0.8	2.4	1.93	15	<5	15	<10	1.96	2	123	49	2305	6.39	.06	1.67	778
284321	1/2 core	92.84	93.89	1.05	.4	1.97	11	<5	13	<10	1.25	<1	19	36	602	3.53	.05	1.72	705
284322	1/2 core	93.89	94.79	0.9	.2	1.68	5	<5	373	<10	1.15	<1	19	59	255	3.45	.10	1.48	548
284323	1/2 core	94.79	95.39	0.6	.6	1.56	18	<5	114	<10	1.20	<1	16	52	1145	3.48	.10	1.36	482
284324	1/2 core	95.39	95.89	0.5	.4	1.56	5	<5	38	<10	1.07	<1	13	32	783	3.15	.05	1.29	456
284325	1/2 core	97.85	98.35	0.5	.2	1.49	11	<5	810	<10	6.31	<1	14	20	638	2.59	.13	.77	700
284326	1/2 core	101.96	102.7	0.74	.1	1.68	<5	<5	36	<10	5.51	<1	20	21	557	2.88	.09	1.32	803
284327	1/2 core	102.7	103.63	0.93	.2	1.62	<5	6	38	<10	2.25	<1	16	29	135	3.43	.06	1.41	562
284328	1/2 core	105.33	106.03	0.7	.3	1.78	10	<5	13	<10	1.58	1	17	52	1310	2.28	.03	1.65	586
284329	1/2 core	106.03	106.8	0.77	.4	1.63	<5	<5	64	<10	1.27	<1	16	48	685	3.28	.08	1.51	587
284330	1/2 core	106.8	107.4	0.6	.3	2.04	<5	<5	56	<10	2.58	<1	18	35	659	3.86	.05	1.66	1017
284331	1/2 core	107.4	108.23	0.83	.1	1.79	<5	<5	26	<10	1.47	<1	17	33	346	3.66	.05	1.53	742

284332	1/2 core	108.23	108.93	0.7	3.6	1.68	6	<5	47	<10	1.32	<1	17	34	783	3.26	.06	1.37	571
284333	1/2 core	108.93	109.58	0.65	.2	1.48	12	<5	49	<10	1.27	<1	12	33	190	3.19	.07	1.05	371
284334	1/2 core	109.58	110.08	0.5	.4	1.55	20	<5	62	<10	1.69	<1	18	33	567	2.87	.05	1.10	454
284335	1/2 core	110.08	110.73	0.65	.2	1.52	7	<5	314	<10	1.53	<1	17	28	368	2.84	.06	1.06	436
284336	1/2 core	110.73	111.68	0.95	.3	1.74	<5	<5	172	<10	1.71	<1	14	36	193	3.48	.08	1.16	468
284337	1/2 core	111.68	112.43	0.75	.2	1.52	13	<5	321	<10	1.86	<1	13	30	205	3.37	.05	1.22	620
284338	1/2 core	112.43	113.33	0.9	.1	1.67	14	<5	350	<10	1.93	<1	15	37	161	3.63	.08	1.28	555
284339	1/2 core	113.33	114.23	0.9	.1	1.48	6	<5	86	<10	1.52	<1	13	36	380	3.39	.05	1.15	468
284340	1/2 core	114.23	114.88	0.65	1.4	1.70	14	<5	204	<10	1.62	<1	26	40	2601	3.66	.05	1.47	719
284341	1/2 core	114.88	115.82	0.94	.2	1.40	6	<5	20	<10	2.15	<1	13	43	595	2.75	.06	1.30	715
284342	1/2 core	115.82	116.3	0.48	.9	1.93	7	<5	9	<10	2.12	<1	17	45	1712	2.57	.03	1.71	901
284343	1/2 core	116.3	116.6	0.3	6.2	2.05	19	<5	12	<10	1.32	<1	24	47	5010	3.03	.02	1.86	816
284344	1/2 core	116.6	117.25	0.65	.4	2.12	10	<5	27	<10	2.88	<1	20	41	2281	3.29	.05	1.98	1123
284345	1/2 core	117.25	117.75	0.5	2.0	1.73	5	<5	7	<10	1.41	<1	22	47	5257	2.75	.04	1.30	823
284346	1/2 core	117.75	118.27	0.52	1.2	1.72	26	<5	17	<10	1.74	<1	18	44	1777	2.37	.05	1.40	943
284347	1/2 core	118.27	119.37	1.1	.3	1.74	13	<5	40	<10	1.73	<1	18	33	253	3.73	.06	1.66	1055
284348	1/2 core	119.37	120.17	0.8	.4	1.78	6	<5	68	<10	1.75	<1	19	37	538	3.82	.06	1.66	956
284349	1/2 core	120.17	120.92	0.75	.2	1.63	12	<5	70	<10	2.19	<1	16	31	592	3.93	.09	1.53	991
284350	1/2 core	120.92	121.5	0.58	.7	1.36	24	<5	16	<10	1.68	<1	14	51	4850	2.28	.07	.86	755
280651	1/2 core	121.50	122.24	0.74	.4	1.86	<5	<5	18	<10	2.79	1	18	29	2012	3.15	.10	1.66	1271
280652	1/2 core	122.24	123.00	0.76	2.0	1.57	7	<5	23	<10	2.67	1	15	24	1175	3.08	.09	1.43	1251
280653	1/2 core	123.00	124.00	1	.4	1.77	14	<5	110	<10	2.41	1	18	28	1588	3.36	.09	1.69	1360
280654	1/2 core	124.00	124.60	0.6	1.0	1.73	<5	<5	8	<10	3.14	1	20	33	5048	2.74	.05	1.59	1120
280655	1/2 core	124.60	125.10	0.5	.1	1.95	<5	<5	97	<10	2.61	1	18	24	1049	3.11	.07	1.79	1407
280656	1/2 core	125.10	126.00	0.9	.5	2.17	<5	<5	370	<10	2.11	2	25	26	2289	3.65	.08	1.97	1321
280657	1/2 core	126.00	127.00	1	.7	1.85	24	<5	48	<10	2.90	2	18	24	1619	3.51	.10	1.67	1412
280658	1/2 core	127.00	127.80	0.8	.5	2.03	<5	<5	286	<10	3.31	2	20	26	2004	3.86	.11	1.81	1647
280659	1/2 core	127.80	128.42	0.62	.6	2.10	10	<5	167	<10	2.90	2	21	31	3459	3.88	.13	1.73	1268
280660	1/2 core	128.42	129.13	0.71	.5	1.21	8	6	419	<10	5.12	2	13	15	1358	2.81	.20	.47	1559
280661	1/2 core	129.13	130.13	1	.1	1.26	<5	<5	29	<10	3.85	1	11	35	302	2.18	.11	.82	1461
280662	1/2 core	130.13	131.15	1.02	.3	1.62	13	6	1223	<10	5.11	2	14	18	438	2.83	.19	.84	1709
280663	1/2 core	131.15	132.00	0.85	.2	2.08	8	5	21	<10	4.59	2	17	25	673	3.90	.20	1.64	1802
280664	1/2 core	132.00	132.85	0.85	.1	2.10	7	7	29	<10	4.01	2	19	24	608	4.42	.24	1.47	1825
280665	1/2 core	132.85	133.90	1.05	1.3	2.48	6	<5	55	<10	4.31	2	21	27	1455	4.30	.20	1.87	2001
280666	1/2 core	133.90	134.70	0.8	.1	2.01	<5	5	40	<10	5.50	<1	18	18	460	3.63	.22	1.26	1743
280667	1/2 core	134.70	135.65	0.95	.3	2.26	7	6	36	<10	4.91	<1	21	28	476	4.20	.24	1.41	1668
280668	1/2 core	135.65	136.70	1.05	3.5	2.51	16	10	35	<10	4.35	4	22	31	1602	5.21	.22	1.10	1603
280669	1/2 core	136.70	138.21	1.51	1.3	1.79	15	8	26	<10	3.86	<1	14	26	432	3.70	.28	.97	1355

280670	1/2 core	138.21	139.66	1.45	.5	2.44	7	<5	31	<10	3.49	<1	22	51	770	3.95	.12	1.92	1647
280671	1/2 core	139.66	140.83	1.17	.6	2.07	10	<5	42	<10	3.89	<1	19	74	1160	3.62	.14	1.73	1462
280672	1/2 core	140.83	141.86	1.03	.2	2.73	27	<5	96	<10	3.45	<1	26	54	175	4.34	.18	2.42	1646
280673	1/2 core	141.86	142.56	0.7	.1	2.01	28	<5	24	<10	3.42	<1	22	57	43	3.38	.20	1.62	1544
280674	1/2 core	142.56	143.41	0.85	.2	1.61	12	<5	19	<10	3.59	<1	14	40	62	2.97	.20	1.21	1396
280675	1/2 core	143.41	144.41	1	.5	1.73	7	<5	19	<10	3.55	<1	15	52	301	3.25	.23	1.25	1632
280676	1/2 core	144.41	145.41	1	1.8	1.12	<5	5	37	<10	4.82	2	11	47	573	2.86	.26	.63	1630
280677	1/2 core	145.41	146.30	0.89	1.3	1.09	<5	9	1434	<10	7.38	2	18	14	958	4.21	.23	1.02	3473
280678	1/2 core	146.30	147.30	1	1.1	.96	9	6	103	<10	5.31	<1	16	17	1169	3.45	.21	.97	1938
280679	1/2 core	147.30	148.30	1	.7	2.02	18	6	670	<10	3.90	<1	21	26	2416	4.12	.19	1.20	1796
280680	1/2 core	148.30	149.25	0.95	.6	2.24	<5	7	72	<10	3.60	1	22	22	2015	4.33	.20	1.39	1649
280681	1/2 core	149.25	149.75	0.5	.7	3.09	<5	6	48	<10	3.75	1	34	27	1150	6.02	.19	1.88	2015
280682	1/2 core	149.75	150.75	1	1.5	1.84	8	<5	68	<10	3.35	<1	18	27	480	4.06	.15	1.56	1538
280683	1/2 core	150.75	151.65	0.9	1.6	1.70	<5	<5	68	<10	3.55	<1	15	30	336	3.66	.16	1.44	1547
280684	1/2 core	151.65	152.65	1	.5	1.69	<5	<5	45	<10	3.37	<1	17	28	263	3.73	.16	1.47	1395
280685	1/2 core	152.65	154.25	1.6	4.4	2.06	11	<5	79	<10	3.15	<1	19	32	949	3.84	.14	1.64	1845
280686	1/2 core	154.25	155.45	1.2	2.9	1.97	<5	5	503	<10	6.83	1	19	28	959	4.15	.18	1.33	2103
280687	1/2 core	155.45	156.05	0.6	3.1	2.23	124	<5	63	<10	2.24	1	47	26	2508	5.79	.16	1.25	2009
280688	1/2 core	156.05	156.95	0.9	.2	2.01	6	<5	53	<10	2.86	<1	17	30	233	3.71	.15	1.46	2095
280689	1/2 core	156.95	157.75	0.8	.3	2.53	8	<5	246	<10	2.19	<1	22	32	188	5.01	.15	1.64	2446
280690	1/2 core	157.75	158.55	0.8	2.1	.94	<5	<5	55	<10	4.52	<1	9	42	352	1.80	.16	.62	1561
280691	1/2 core	158.55	159.55	1	.1	.99	<5	<5	41	<10	4.03	<1	9	42	128	2.18	.14	.72	1454
280692	1/2 core	159.55	160.55	1	.2	1.20	13	<5	63	<10	3.21	<1	12	29	92	2.33	.17	.69	1452
280693	1/2 core	168.00	168.50	0.5	.1	1.58	14	<5	244	<10	5.11	<1	17	28	249	3.45	.20	.92	2426
280694	1/2 core	171.94	172.74	0.8	.3	.67	12	<5	752	<10	12.47	<1	13	30	470	2.29	.15	.43	3335
280695	1/2 core	172.74	173.74	1	.9	.77	8	<5	872	<10	4.50	<1	17	21	735	3.64	.20	.32	2719
280696	1/2 core	173.74	174.79	1.05	.8	1.28	6	<5	662	<10	4.98	<1	18	39	2095	3.70	.22	.33	2110
280697	1/2 core	174.79	175.84	1.05	.3	1.25	8	<5	1498	<10	5.05	<1	16	46	483	3.14	.17	.29	1609
280698	1/2 core	175.84	176.78	0.94	.5	1.18	7	<5	582	<10	4.46	<1	16	35	758	2.91	.21	.27	1497
280699	1/2 core	176.78	177.96	1.18	.1	.78	8	5	521	<10	3.82	<1	14	27	242	2.71	.22	.32	1491
280700	1/2 core	177.96	178.84	0.88	.2	1.14	10	<5	46	<10	4.88	<1	15	21	94	2.94	.23	.45	1066
280701	1/2 core	178.84	179.72	0.88	.1	1.12	7	<5	42	<10	4.88	<1	13	39	194	2.89	.20	.57	1186
280702	1/2 core	179.72	181.53	1.81	3.0	1.83	6	5	167	<10	6.57	1	21	29	247	4.13	.21	.89	2582
280703	1/2 core	181.53	182.86	1.33	.1	1.53	8	<5	39	<10	5.16	<1	19	27	94	4.17	.25	.74	1688
280704	1/2 core	182.86	183.76	0.9	.2	1.58	9	<5	37	<10	5.36	<1	18	26	47	3.91	.21	.89	1811
280705	1/2 core	183.76	184.56	0.8	.1	1.16	22	<5	38	<10	5.83	<1	13	29	325	2.90	.20	.37	1893

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Sample No.		From metres	To metres	Interval metres	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Sn ppm	Sr ppm	Te ppm	Ti %	Tl ppm	V ppm	Zn ppm	Au* ppb
284301	1/2 core	12.19	12.58	0.39	5	.03	26	.17	2	.02	<2	<2	24	<5	.09	<5	88	86	2
284302	1/2 core	29.48	30.48	1.00	2	.02	27	.19	6	.01	3	<2	65	<5	.02	<5	84	86	38
284303	1/2 core	30.48	31.68	1.20	4	.01	25	.16	4	.02	<2	<2	83	<5	.01	<5	85	107	7
284304	1/2 core	31.68	32.98	1.30	2	.02	27	.17	3	.01	<2	<2	63	<5	.02	<5	72	80	9
284305	1/2 core	32.98	33.92	0.94	4	.02	19	.18	2	.02	<2	<2	52	<5	.01	<5	63	78	8
284306	1/2 core	36.67	37.62	0.95	2	.01	20	.17	3	.01	<2	<2	72	<5	.02	<5	57	72	10
284307	1/2 core	75.50	76.20	0.7	5	.03	18	.21	12	.21	3	<2	27	<5	.11	<5	95	69	7
284308	1/2 core	76.20	76.78	0.58	5	.03	20	.19	4	1.15	<2	<2	19	<5	.08	<5	73	56	2
284309	1/2 core	76.78	77.70	0.92	2	.04	18	.20	2	.02	<2	<2	41	<5	.15	<5	99	55	2
284310	1/2 core	77.70	78.65	0.95	4	.03	21	.18	6	.03	<2	<2	33	<5	.11	<5	87	65	4
284311	1/2 core	78.65	79.30	0.65	2	.02	23	.20	10	.21	<2	<2	28	<5	.06	<5	56	93	2
284312	1/2 core	79.30	79.82	0.52	4	.02	25	.19	9	.16	<2	<2	34	<5	.08	<5	69	94	2
284313	1/2 core	81.25	82.07	0.82	4	.02	20	.21	31	.87	<2	<2	41	<5	.06	<5	46	143	1
284314	1/2 core	82.07	82.79	0.72	1	.03	26	.18	8	.65	<2	<2	42	<5	.09	<5	74	63	2
284315	1/2 core	82.79	83.59	0.8	2	.04	25	.19	12	.61	<2	<2	32	<5	.13	<5	83	76	2
284316	1/2 core	83.59	84.44	0.85	4	.04	25	.17	4	.46	<2	<2	33	<5	.13	<5	79	50	1
284317	1/2 core	86.54	87.29	0.75	2	.03	22	.16	8	.08	<2	<2	24	<5	.07	<5	78	77	1
284318	1/2 core	87.29	87.9	0.61	3	.04	18	.18	9	.17	3	<2	30	<5	.10	<5	98	76	3
284319	1/2 core	91.14	92.04	0.9	2	.03	20	.20	10	.09	<2	<2	22	<5	.12	<5	98	54	2
284320	1/2 core	92.04	92.84	0.8	6	.02	44	.18	43	3.83	<2	<2	46	<5	.07	<5	74	283	3
284321	1/2 core	92.84	93.89	1.05	3	.03	21	.17	10	.26	<2	<2	35	<5	.08	<5	75	88	10
284322	1/2 core	93.89	94.79	0.9	2	.03	27	.16	7	.26	<2	<2	34	<5	.13	<5	89	89	8
284323	1/2 core	94.79	95.39	0.6	1	.04	25	.17	6	.14	3	<2	42	<5	.13	<5	99	55	36
284324	1/2 core	95.39	95.89	0.5	2	.03	16	.16	4	.08	<2	<2	28	<5	.10	<5	83	52	21
284325	1/2 core	97.85	98.35	0.5	1	.02	17	.18	5	.15	<2	<2	165	<5	.01	<5	47	55	5
284326	1/2 core	101.96	102.7	0.74	1	.02	16	.19	12	.20	<2	<2	77	<5	.01	<5	67	70	1
284327	1/2 core	102.7	103.63	0.93	2	.04	18	.20	2	.07	<2	<2	48	<5	.07	<5	104	56	1
284328	1/2 core	105.33	106.03	0.7	6	.02	28	.19	30	.17	<2	<2	46	<5	.05	<5	54	99	3
284329	1/2 core	106.03	106.8	0.77	1	.04	28	.20	14	.10	<2	<2	33	<5	.10	<5	100	73	2
284330	1/2 core	106.8	107.4	0.6	2	.03	24	.21	10	.11	<2	<2	43	<5	.09	<5	107	109	1
284331	1/2 core	107.4	108.23	0.83	1	.03	21	.20	6	.06	<2	<2	44	<5	.11	<5	101	80	2
284332	1/2 core	108.23	108.93	0.7	1	.03	19	.19	8	.16	<2	<2	45	<5	.10	<5	84	67	5
284333	1/2 core	108.93	109.58	0.65	2	.04	18	.20	5	.03	<2	<2	38	<5	.08	<5	96	40	8
284334	1/2 core	109.58	110.08	0.5	1	.03	20	.19	9	.30	<2	<2	45	<5	.06	<5	73	46	3

284335	1/2 core	110.08	110.73	0.65	2	.04	19	.20	10	.18	<2	<2	84	<5	.07	<5	79	70	1
284336	1/2 core	110.73	111.68	0.95	1	.04	20	.20	7	.05	<2	<2	70	<5	.09	<5	101	51	3
284337	1/2 core	111.68	112.43	0.75	2	.03	19	.19	9	.04	<2	<2	56	<5	.08	<5	91	66	2
284338	1/2 core	112.43	113.33	0.9	7	.04	21	.20	7	.04	3	<2	51	<5	.10	<5	104	65	1
284339	1/2 core	113.33	114.23	0.9	3	.03	20	.21	8	.05	3	<2	40	<5	.09	<5	98	52	2
284340	1/2 core	114.23	114.88	0.65	2	.02	25	.19	36	.74	<2	<2	51	<5	.07	<5	77	100	3
284341	1/2 core	114.88	115.82	0.94	3	.03	24	.21	14	.12	3	<2	33	<5	.05	<5	84	74	2
284342	1/2 core	115.82	116.3	0.48	4	.01	27	.18	9	.15	<2	<2	55	<5	.04	<5	52	107	3
284343	1/2 core	116.3	116.6	0.3	8	.02	32	.17	7	.43	<2	<2	45	<5	.04	<5	44	91	4
284344	1/2 core	116.6	117.25	0.65	1	.02	36	.19	6	.21	<2	<2	39	5	.04	<5	68	112	3
284345	1/2 core	117.25	117.75	0.5	3	.01	23	.15	8	.44	<2	<2	78	<5	.03	<5	34	94	2
284346	1/2 core	117.75	118.27	0.52	4	.02	21	.17	3	.15	<2	<2	66	<5	.04	<5	44	122	3
284347	1/2 core	118.27	119.37	1.1	2	.02	20	.19	12	.03	<2	<2	34	<5	.09	<5	98	106	2
284348	1/2 core	119.37	120.17	0.8	2	.03	23	.20	9	.18	<2	<2	37	<5	.09	<5	103	90	3
284349	1/2 core	120.17	120.92	0.75	3	.03	19	.21	10	.07	<2	<2	31	<5	.09	<5	105	98	2
284350	1/2 core	120.92	121.5	0.58	4	.01	14	.15	3	.38	<2	<2	91	<5	.03	<5	30	65	3
280651	1/2 core	121.50	122.24	0.74	3	.02	18	.09	2	.14	3	<2	53	<5	.01	<5	61	114	5
280652	1/2 core	122.24	123.00	0.76	1	.02	19	.08	4	.10	4	<2	36	<5	.01	<5	73	122	7
280653	1/2 core	123.00	124.00	1	2	.02	20	.10	3	.14	<2	<2	35	<5	.05	<5	82	132	2
280654	1/2 core	124.00	124.60	0.6	30	.02	19	.09	2	.32	4	<2	36	<5	.04	<5	56	109	2
280655	1/2 core	124.60	125.10	0.5	2	.03	22	.11	4	.10	<2	<2	35	<5	.04	<5	74	148	3
280656	1/2 core	125.10	126.00	0.9	2	.03	22	.12	2	.18	<2	<2	38	<5	.06	<5	74	124	5
280657	1/2 core	126.00	127.00	1	3	.02	20	.11	4	.13	<2	<2	45	<5	.04	<5	87	130	1
280658	1/2 core	127.00	127.80	0.8	1	.03	22	.12	3	.17	4	<2	48	<5	.03	<5	96	156	2
280659	1/2 core	127.80	128.42	0.62	2	.03	25	.10	2	.30	<2	<2	61	<5	.02	<5	84	125	60
280660	1/2 core	128.42	129.13	0.71	4	.03	9	.07	12	.27	7	<2	110	<5	.01	<5	35	143	39
280661	1/2 core	129.13	130.13	1	2	.01	9	.05	5	.02	<2	<2	58	<5	.02	<5	38	130	1
280662	1/2 core	130.13	131.15	1.02	1	.03	11	.07	4	.09	6	<2	117	<5	.01	<5	45	152	6
280663	1/2 core	131.15	132.00	0.85	3	.03	26	.12	3	.07	4	<2	70	<5	.02	<5	82	182	75
280664	1/2 core	132.00	132.85	0.85	13	.03	27	.14	2	.05	6	<2	78	<5	.01	<5	101	230	43
280665	1/2 core	132.85	133.90	1.05	11	.02	20	.11	3	.09	8	<2	63	<5	.01	<5	70	236	15
280666	1/2 core	133.90	134.70	0.8	1	.03	16	.13	7	.10	3	<2	103	6	.01	<5	55	125	2
280667	1/2 core	134.70	135.65	0.95	2	.03	18	.14	10	.11	<2	<2	108	<5	.02	<5	72	130	14
280668	1/2 core	135.65	136.70	1.05	3	.03	19	.15	26	.19	84	<2	87	<5	.01	<5	60	290	29
280669	1/2 core	136.70	138.21	1.51	2	.02	12	.16	14	.05	9	<2	68	<5	.02	<5	47	168	3
280670	1/2 core	138.21	139.66	1.45	8	.02	25	.13	7	.06	3	<2	52	<5	.01	<5	76	156	15
280671	1/2 core	139.66	140.83	1.17	13	.02	27	.15	4	.10	<2	<2	74	<5	.02	<5	87	123	20
280672	1/2 core	140.83	141.86	1.03	3	.01	25	.14	3	.01	<2	<2	70	<5	.03	<5	79	138	64

280673	1/2 core	141.86	142.56	0.7	7	.02	19	.13	2	.01	3	<2	71	<5	.02	<5	69	99	20
280674	1/2 core	142.56	143.41	0.85	4	.02	14	.16	5	.01	3	<2	75	<5	.01	<5	58	80	21
280675	1/2 core	143.41	144.41	1	7	.02	13	.13	9	.02	2	<2	64	<5	.02	<5	50	133	1
280676	1/2 core	144.41	145.41	1	3	.02	9	.10	10	.05	21	<2	70	<5	.01	<5	42	134	6
280677	1/2 core	145.41	146.30	0.89	4	.04	13	.17	14	.17	13	<2	170	<5	.02	<5	53	178	5
280678	1/2 core	146.30	147.30	1	2	.05	14	.19	17	.18	<2	<2	171	<5	.01	<5	53	145	23
280679	1/2 core	147.30	148.30	1	3	.03	16	.12	13	.30	4	<2	120	<5	.01	<5	44	195	15
280680	1/2 core	148.30	149.25	0.95	3	.04	17	.15	8	.23	<2	<2	124	<5	.01	<5	51	162	4
280681	1/2 core	149.25	149.75	0.5	4	.03	22	.17	4	.11	<2	<2	109	<5	.02	<5	62	234	3
280682	1/2 core	149.75	150.75	1	2	.02	17	.16	2	.04	<2	<2	50	<5	.01	<5	86	178	46
280683	1/2 core	150.75	151.65	0.9	4	.03	14	.15	6	.03	<2	<2	52	<5	.01	<5	79	166	3
280684	1/2 core	151.65	152.65	1	2	.03	14	.17	10	.03	5	<2	52	<5	.02	<5	79	131	2
280685	1/2 core	152.65	154.25	1.6	4	.02	13	.16	2	.12	<2	<2	40	<5	.01	<5	64	212	3
280686	1/2 core	154.25	155.45	1.2	8	.02	19	.19	12	.16	3	<2	110	<5	.02	<5	67	174	7
280687	1/2 core	155.45	156.05	0.6	106	.02	13	.12	73	2.35	3	<2	50	<5	.02	<5	37	198	27
280688	1/2 core	156.05	156.95	0.9	5	.03	12	.11	19	.08	<2	<2	59	<5	.01	<5	50	197	35
280689	1/2 core	156.95	157.75	0.8	10	.03	13	.13	22	.39	<2	<2	73	<5	.02	<5	49	236	13
280690	1/2 core	157.75	158.55	0.8	8	.03	10	.10	9	.05	<2	<2	80	<5	.01	<5	32	99	1
280691	1/2 core	158.55	159.55	1	7	.03	10	.09	4	.02	<2	<2	59	<5	.02	<5	44	101	1
280692	1/2 core	159.55	160.55	1	5	.03	9	.10	10	.04	<2	<2	84	<5	.01	<5	32	115	1
280693	1/2 core	168.00	168.50	0.5	7	.02	11	.13	15	.05	<2	<2	67	<5	.02	<5	55	173	2
280694	1/2 core	171.94	172.74	0.8	8	.02	7	.05	28	.12	<2	<2	127	<5	.01	<5	20	130	1
280695	1/2 core	172.74	173.74	1	6	.03	8	.12	8	.14	<2	<2	85	<5	.02	<5	19	164	7
280696	1/2 core	173.74	174.79	1.05	5	.02	12	.13	3	.24	<2	<2	76	<5	.02	<5	19	194	6
280697	1/2 core	174.79	175.84	1.05	7	.02	9	.07	7	.10	<2	<2	83	<5	.01	<5	12	186	5
280698	1/2 core	175.84	176.78	0.94	8	.02	11	.12	11	.18	<2	<2	77	<5	.02	<5	18	162	4
280699	1/2 core	176.78	177.96	1.18	5	.03	8	.14	7	.08	<2	<2	85	<5	.01	<5	25	145	42
280700	1/2 core	177.96	178.84	0.88	2	.03	10	.15	11	.02	3	<2	86	<5	.02	<5	36	110	95
280701	1/2 core	178.84	179.72	0.88	6	.03	11	.12	7	.03	<2	<2	78	<5	.01	<5	46	107	21
280702	1/2 core	179.72	181.53	1.81	8	.03	15	.13	15	.22	<2	<2	99	<5	.02	<5	58	238	12
280703	1/2 core	181.53	182.86	1.33	4	.04	21	.14	9	.02	2	<2	114	<5	.01	<5	78	163	13
280704	1/2 core	182.86	183.76	0.9	2	.03	16	.13	7	.03	<2	<2	89	<5	.02	<5	66	149	8
280705	1/2 core	183.76	184.56	0.8	5	.02	11	.12	8	.13	<2	<2	79	<5	.01	<5	33	131	2

09-SND-09

Sample No.		From metres	To metres	Interval metres	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm
280706	1/2 core	16.40	17.15	0.75	.1	1.97	21	6	22	<10	1.78	<1	10	28	159	3.71	.05	1.38	447
280707	1/2 core	17.15	17.80	0.65	.8	1.39	29	<5	35	<10	.76	1	74	28	268	5.01	.05	1.12	359
280708	1/2 core	17.80	18.30	0.50	.3	2.10	22	<5	28	<10	1.58	<1	19	40	443	3.71	.06	1.76	579
280709	1/2 core	18.30	19.36	1.06	.4	1.44	21	<5	25	<10	1.26	<1	11	28	609	3.55	.08	1.42	583
280710	1/2 core	19.36	20.36	1.00	.1	1.41	7	<5	>10,000	<10	2.21	<1	14	30	257	3.60	.09	1.25	626
280711	1/2 core	20.36	21.28	0.92	.9	2.07	<5	5	65	<10	6.34	1	23	23	157	4.62	.23	1.27	1190
280712	1/2 core	26.60	27.36	0.76	.1	2.16	10	<5	118	<10	2.85	<1	18	34	351	3.57	.06	2.39	997
280713	1/2 core	27.36	29.06	1.70	.3	1.76	16	<5	67	<10	2.51	<1	23	28	167	3.45	.08	1.69	830
280714	1/2 core	29.06	30.06	1.00	.2	1.86	18	6	54	<10	5.26	<1	21	21	71	4.02	.22	1.80	1932
280715	1/2 core	30.06	30.97	0.91	4.1	.62	27	<5	800	<10	5.36	2	14	13	851	3.53	.24	1.48	2299
280716	1/2 core	30.97	31.78	0.81	2.0	1.81	11	7	107	<10	5.12	2	24	18	877	4.80	.24	1.36	1995
280717	1/2 core	31.78	32.59	0.81	.4	1.38	24	6	905	<10	5.37	1	18	19	247	3.97	.25	.66	2018
280718	1/2 core	32.59	33.44	0.85	1.1	1.06	<5	6	24	<10	5.09	1	17	15	344	3.62	.26	.58	2050
280719	1/2 core	33.44	34.34	0.90	1.4	.56	15	<5	2630	<10	6.98	2	13	14	309	2.70	.30	.66	2458
280720	1/2 core	34.34	35.29	0.95	1.7	.78	14	6	2342	<10	5.38	2	17	15	581	3.51	.26	1.07	2332
280721	1/2 core	35.29	36.04	0.75	.4	1.99	8	6	52	<10	4.59	1	18	18	325	3.91	.30	.92	1531
280722	1/2 core	36.04	37.04	1.00	1.3	2.40	17	7	23	<10	3.53	1	21	22	996	4.80	.32	1.23	1494
280723	1/2 core	37.04	38.80	1.76	1.5	1.32	7	7	50	<10	4.16	1	13	15	1283	2.54	.30	.55	1367
280724	1/2 core	38.80	39.72	0.92	.6	1.32	<5	<5	64	<10	6.47	<1	13	15	884	2.87	.25	.45	2091
280725	1/2 core	39.72	40.48	0.76	.1	1.80	<5	7	36	<10	4.93	1	18	16	661	3.97	.25	.62	1803
280726	1/2 core	40.48	41.24	0.76	.8	1.42	20	6	21	<10	4.31	1	20	25	1440	3.61	.23	.45	1552
280727	1/2 core	41.24	42.00	0.76	1.0	2.57	9	6	35	<10	3.55	<1	27	32	1600	5.26	.24	1.30	2110
280728	1/2 core	42.00	43.00	1.00	.3	2.32	<5	9	35	<10	4.78	<1	19	17	904	4.23	.33	1.13	1833
280729	1/2 core	43.00	44.20	1.20	1.7	1.76	<5	7	37	<10	4.85	<1	16	18	4801	3.59	.32	.72	1868
280730	1/2 core	44.20	45.40	1.20	2.9	2.02	14	7	97	<10	3.95	<1	19	19	12000	4.57	.28	1.02	1802
280731	1/2 core	45.40	46.10	0.70	.4	2.36	<5	8	89	<10	4.76	<1	19	17	546	4.19	.25	1.36	2144
280732	1/2 core	46.10	46.80	0.70	.3	2.95	16	<5	278	<10	3.92	<1	22	21	249	5.20	.20	2.16	2681
280733	1/2 core	46.80	47.64	0.84	.1	2.89	10	5	103	<10	3.87	<1	23	19	228	5.04	.18	2.13	2563
280734	1/2 core	47.64	48.30	0.66	.2	2.22	<5	6	2147	<10	3.62	<1	19	37	266	4.04	.27	1.52	1696
280735	1/2 core	48.30	49.00	0.70	.1	2.20	<5	5	75	<10	4.54	<1	18	21	164	3.99	.25	1.52	2205
280736	1/2 core	49.00	49.80	0.80	.1	1.72	12	5	56	<10	4.78	<1	17	25	116	3.66	.31	1.21	1706
280737	1/2 core	49.80	50.58	0.78	.1	1.74	<5	<5	126	<10	4.00	<1	17	21	614	3.62	.26	1.38	1628
280738	1/2 core	50.58	51.18	0.60	1.3	1.95	7	7	575	<10	4.46	<1	16	24	3019	3.83	.28	1.26	1887
280739	1/2 core	51.18	51.86	0.68	.1	1.60	<5	<5	303	<10	6.03	<1	13	25	1102	2.93	.23	1.02	1977

280740	1/2 core	51.86	52.50	0.64	.2	2.29	6	6	31	<10	3.55	<1	18	20	317	4.16	.28	1.69	1786
280741	1/2 core	52.50	53.20	0.70	.1	2.22	14	6	52	<10	2.69	<1	18	23	102	4.52	.29	1.85	1380
280742	1/2 core	53.20	54.20	1.00	.1	1.96	9	6	195	<10	3.13	<1	17	19	130	3.82	.24	1.60	1548
280743	1/2 core	54.20	55.10	0.90	.2	2.42	12	6	568	<10	3.26	<1	17	29	703	4.13	.23	1.82	2185
280744	1/2 core	55.10	56.00	0.90	.3	2.26	5	6	58	<10	3.28	<1	16	17	285	3.61	.26	1.61	1860
280745	1/2 core	56.00	56.70	0.70	.1	2.13	<5	5	35	<10	4.01	<1	15	18	345	3.65	.25	1.50	1806
280746	1/2 core	56.70	57.40	0.70	.3	1.78	9	5	106	<10	4.39	<1	12	12	180	2.50	.27	1.03	2017
280747	1/2 core	57.40	58.34	0.94	.1	2.10	14	7	33	<10	3.88	7	16	14	290	3.35	.27	1.35	1926
280748	1/2 core	58.34	58.95	0.61	.2	1.49	9	<5	32	<10	3.59	<1	14	21	270	3.11	.27	1.10	1522
280749	1/2 core	58.95	59.60	0.65	.1	1.76	<5	<5	44	<10	3.58	<1	17	23	103	3.80	.19	1.59	1635
280750	1/2 core	59.60	60.60	1.00	4.3	1.93	<5	<5	269	<10	3.27	<1	17	31	129	4.01	.19	1.70	2147
284001	1/2 core	60.60	61.60	1.00	.7	1.73	<5	5	133	<10	4.47	<1	17	36	186	3.88	.22	1.55	2565
284002	1/2 core	61.60	62.30	0.70	2.7	1.82	13	<5	87	<10	4.16	35	17	39	87	3.88	.27	1.55	3157
284003	1/2 core	62.30	62.95	0.65	.1	1.95	14	6	54	<10	2.94	2	19	43	40	4.18	.23	1.79	2096
284004	1/2 core	62.95	63.55	0.60	38.0	2.01	14	<5	55	<10	3.17	21	19	35	55	4.28	.20	1.84	2682
284005	1/2 core	63.55	64.10	0.55	.2	1.95	8	<5	88	<10	2.52	33	18	41	190	4.04	.14	1.89	1842
284006	1/2 core	64.10	64.85	0.75	.1	1.67	6	<5	407	<10	3.89	28	16	40	77	3.62	.16	1.60	2860
284007	1/2 core	162.00	162.80	0.80	.2	1.14	234	<5	22	<10	2.78	<1	22	67	129	3.84	.17	.68	1093
284008	1/2 core	176.36	177.24	0.88	1.2	1.86	105	<5	42	<10	3.94	6	21	34	382	4.60	.20	1.17	1619
284009	1/2 core	230.36	230.66	0.30	.4	2.22	<5	<5	36	<10	.85	<1	17	53	1113	4.92	.07	1.86	2203
284010	1/2 core	234.40	235.00	0.60	.1	1.60	17	6	186	<10	1.88	<1	14	47	353	3.57	.19	1.34	621

09-SND-09

Sample		From	To	Interval	Mo	Na	Ni	P	Pb	S	Sb	Sn	Sr	Te	Ti	Tl	V	Zn	Au*
No.		metres	metres	metres	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppb
280706	1/2 core	16.40	17.15	0.75	2	.04	12	.11	2	.01	5	<2	39	<5	.07	<5	126	47	2
280707	1/2 core	17.15	17.80	0.65	11	.04	13	.12	14	1.93	7	<2	60	<5	.08	<5	76	49	1
280708	1/2 core	17.80	18.30	0.50	4	.03	17	.11	7	.02	4	<2	46	<5	.09	<5	116	44	4
280709	1/2 core	18.30	19.36	1.06	6	.04	14	.10	17	.04	2	<2	54	<5	.08	<5	122	84	1
280710	1/2 core	19.36	20.36	1.00	2	.05	14	.11	5	.03	6	<2	49	<5	.07	<5	131	44	1
280711	1/2 core	20.36	21.28	0.92	1	.02	16	.12	8	.01	2	<2	59	<5	.01	<5	95	118	1
280712	1/2 core	26.60	27.36	0.76	3	.04	21	.11	13	.03	<2	<2	63	<5	.07	<5	114	55	1
280713	1/2 core	27.36	29.06	1.70	2	.03	17	.10	10	.30	8	<2	58	<5	.05	<5	88	60	1
280714	1/2 core	29.06	30.06	1.00	2	.01	24	.11	16	.03	10	<2	93	<5	.01	<5	79	130	2
280715	1/2 core	30.06	30.97	0.91	1	.02	10	.10	25	.13	20	<2	109	<5	.01	<5	54	140	3
280716	1/2 core	30.97	31.78	0.81	3	.01	20	.11	41	.15	12	<2	77	6	.02	<5	49	269	1

280717	1/2 core	31.78	32.59	0.81	4	.01	13	.08	4	.08	6	<2	76	<5	.01	<5	34	229	1
280718	1/2 core	32.59	33.44	0.85	1	.02	14	.09	5	.07	8	<2	74	<5	.01	<5	33	270	1
280719	1/2 core	33.44	34.34	0.90	2	.01	10	.08	12	.11	16	<2	105	<5	.01	<5	34	131	1
280720	1/2 core	34.34	35.29	0.95	3	.02	11	.09	19	.13	16	<2	116	<5	.01	<5	50	125	1
280721	1/2 core	35.29	36.04	0.75	2	.01	16	.08	11	.05	11	<2	80	<5	.02	<5	51	198	1
280722	1/2 core	36.04	37.04	1.00	1	.01	18	.09	9	.26	<2	<2	73	<5	.01	<5	62	192	1
280723	1/2 core	37.04	38.80	1.76	4	.01	10	.09	8	.29	6	<2	77	<5	.01	<5	35	114	1
280724	1/2 core	38.80	39.72	0.92	2	.02	12	.07	4	.17	8	<2	91	<5	.01	<5	40	139	1
280725	1/2 core	39.72	40.48	0.76	3	.01	16	.08	8	.10	7	<2	74	<5	.02	<5	46	222	1
280726	1/2 core	40.48	41.24	0.76	13	.01	14	.07	19	.71	3	<2	58	<5	.01	<5	37	255	5
280727	1/2 core	41.24	42.00	0.76	8	.01	18	.08	12	.49	<2	<2	60	<5	.01	<5	52	272	4
280728	1/2 core	42.00	43.00	1.00	3	.02	19	.12	16	.17	<2	<2	101	<5	.01	<5	60	200	3
280729	1/2 core	43.00	44.20	1.20	4	.02	12	.09	17	.75	2	<2	85	<5	.01	<5	36	181	2
280730	1/2 core	44.20	45.40	1.20	4	.03	15	.09	32	1.06	2	<2	77	<5	.02	<5	40	201	6
280731	1/2 core	45.40	46.10	0.70	2	.02	17	.10	12	.11	4	<2	86	<5	.01	<5	50	253	1
280732	1/2 core	46.10	46.80	0.70	1	.02	15	.09	15	.05	<2	<2	75	<5	.01	<5	67	351	1
280733	1/2 core	46.80	47.64	0.84	2	.02	15	.08	13	.04	<2	<2	65	<5	.01	<5	62	348	1
280734	1/2 core	47.64	48.30	0.66	4	.01	18	.10	16	.09	<2	<2	90	<5	.01	<5	63	259	1
280735	1/2 core	48.30	49.00	0.70	1	.02	17	.09	14	.03	<2	<2	101	<5	.02	<5	65	258	1
280736	1/2 core	49.00	49.80	0.80	3	.02	18	.11	12	.02	5	<2	100	<5	.01	<5	78	175	3
280737	1/2 core	49.80	50.58	0.78	1	.02	16	.10	13	.08	<2	<2	78	<5	.01	<5	71	174	2
280738	1/2 core	50.58	51.18	0.60	2	.01	17	.09	18	.38	4	<2	100	<5	.02	<5	61	201	2
280739	1/2 core	51.18	51.86	0.68	2	.02	14	.07	13	.16	<2	<2	86	<5	.01	<5	42	170	1
280740	1/2 core	51.86	52.50	0.64	2	.02	20	.11	22	.06	3	<2	88	<5	.01	<5	78	228	1
280741	1/2 core	52.50	53.20	0.70	3	.02	20	.11	14	.02	<2	<2	91	8	.02	<5	96	184	1
280742	1/2 core	53.20	54.20	1.00	1	.02	20	.11	11	.03	3	<2	82	8	.01	<5	70	200	1
280743	1/2 core	54.20	55.10	0.90	3	.02	16	.10	31	.15	<2	<2	77	<5	.01	<5	59	251	1
280744	1/2 core	55.10	56.00	0.90	3	.03	14	.11	34	.11	<2	<2	78	<5	.02	<5	53	317	1
280745	1/2 core	56.00	56.70	0.70	1	.02	14	.11	21	.07	<2	<2	103	<5	.01	<5	55	216	1
280746	1/2 core	56.70	57.40	0.70	3	.02	12	.11	27	.08	<2	<2	107	<5	.01	<5	41	186	1
280747	1/2 core	57.40	58.34	0.94	1	.02	14	.12	190	.09	2	<2	98	<5	.03	<5	52	517	2
280748	1/2 core	58.34	58.95	0.61	1	.03	14	.13	25	.07	5	<2	78	<5	.02	<5	67	161	1
280749	1/2 core	58.95	59.60	0.65	2	.02	15	.12	17	.01	<2	<2	68	7	.01	<5	90	195	1
280750	1/2 core	59.60	60.60	1.00	11	.01	19	.11	104	.05	4	<2	66	9	.01	<5	94	246	1
284001	1/2 core	60.60	61.60	1.00	2	.02	20	.12	2889	.07	<2	<2	65	7	.01	<5	98	233	1
284002	1/2 core	61.60	62.30	0.70	3	.02	20	.11	6339	.34	<2	<2	66	7	.02	<5	96	4002	2
284003	1/2 core	62.30	62.95	0.65	3	.02	21	.12	193	.03	<2	<2	53	13	.01	<5	99	702	1
284004	1/2 core	62.95	63.55	0.60	2	.02	21	.10	6846	.28	<2	<2	51	6	.01	<5	107	2708	2

284005	1/2 core	63.55	64.10	0.55	4	.03	17	.11	56	.26	<2	<2	38	11	.01	<5	95	3909	1
284006	1/2 core	64.10	64.85	0.75	3	.02	14	.12	33	.23	<2	<2	54	9	.02	<5	82	3451	1
284007	1/2 core	162.00	162.80	0.80	31	.01	15	.11	27	2.51	<2	<2	39	9	.01	<5	29	110	1
284008	1/2 core	176.36	177.24	0.88	5	.03	17	.12	187	2.24	<2	<2	81	9	.01	<5	54	1236	11
284009	1/2 core	230.36	230.66	0.30	4	.02	15	.11	12	.20	<2	<2	40	10	.07	<5	75	164	5
284010	1/2 core	234.40	235.00	0.60	2	.06	17	.12	10	.03	<2	<2	62	7	.21	<5	119	53	1

PIONEER LABORATORIES INC. #103-2691 VISCOUNT WAY RICHMOND, BC CANADA V6V 2R5 TELEPHONE (604) 231-8165

GEOCHEMICAL ANALYSIS CERTIFICATE

SNL ENTERPRISES LTD.
Project: Logan Copper
Sample Type: Cores

Multi-element ICP Analysis - 0.500 gram sample is digested with 3 ml of aqua regia, diluted to 10 ml with water. This leach is partial for B, Ba, Cr, Fe, Mg, Mn, Na, P, S, Sn, Ti and limited for Na, K and Al. *Au Analysis- 20 gram sample is digested with aqua regia, MIBK extracted, and is finished by AA or graphite furnace AA.

Analyst [signature]
Report No. 2092293
Date: July 2, 2009

ELEMENT	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sn	Sr	Te	Ti	Tl	V	Zn	Au*
SAMPLE	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppb
280651	.4	1.86	<5	<5	18	<10	2.79	1	18	29	2012	3.15	.10	1.66	1271	3	.02	18	.09	2	.14	3	<2	53	<5	.01	<5	61	114	5
280652	2.0	1.57	7	<5	23	<10	2.67	1	15	24	1175	3.08	.09	1.43	1251	1	.02	19	.08	4	.10	4	<2	36	<5	.01	<5	73	122	7
280653	.4	1.77	14	<5	110	<10	2.41	1	18	28	1588	3.36	.09	1.69	1360	2	.02	20	.10	3	.14	<2	<2	35	<5	.05	<5	82	132	2
280654	1.0	1.73	<5	<5	8	<10	3.14	1	20	33	5048	2.74	.05	1.59	1120	30	.02	19	.09	2	.32	4	<2	36	<5	.04	<5	56	109	2
280655	.1	1.95	<5	<5	97	<10	2.61	1	18	24	1049	3.11	.07	1.79	1407	2	.03	22	.11	4	.10	<2	<2	35	<5	.04	<5	74	148	3
280656	.5	2.17	<5	<5	370	<10	2.11	2	25	26	2289	3.65	.08	1.97	1321	2	.03	22	.12	2	.18	<2	<2	38	<5	.06	<5	74	124	5
280657	.7	1.85	24	<5	48	<10	2.90	2	18	24	1619	3.51	.10	1.67	1412	3	.02	20	.11	4	.13	<2	<2	45	<5	.04	<5	87	130	1
280658	.5	2.03	<5	<5	286	<10	3.31	2	20	26	2004	3.86	.11	1.81	1647	1	.03	22	.12	3	.17	4	<2	48	<5	.03	<5	96	156	2
280659	.6	2.10	10	<5	167	<10	2.90	2	21	31	3459	3.88	.13	1.73	1268	2	.03	25	.10	2	.30	<2	<2	61	<5	.02	<5	84	125	60
280660	.5	1.21	8	6	419	<10	5.12	2	13	15	1358	2.81	.20	.47	1559	4	.03	9	.07	12	.27	7	<2	110	<5	.01	<5	35	143	39
280661	.1	1.26	<5	<5	29	<10	3.85	1	11	35	302	2.18	.11	.82	1461	2	.01	9	.05	5	.02	<2	<2	58	<5	.02	<5	38	130	1
280662	.3	1.62	13	6	1223	<10	5.11	2	14	18	438	2.83	.19	.84	1709	1	.03	11	.07	4	.09	6	<2	117	<5	.01	<5	45	152	6
280663	.2	2.08	8	5	21	<10	4.59	2	17	25	673	3.90	.20	1.64	1802	3	.03	26	.12	3	.07	4	<2	70	<5	.02	<5	82	182	75
280664	.1	2.10	7	7	29	<10	4.01	2	19	24	608	4.42	.24	1.47	1825	13	.03	27	.14	2	.05	6	<2	78	<5	.01	<5	101	230	43
280665	1.3	2.48	6	<5	55	<10	4.31	2	21	27	1455	4.30	.20	1.87	2001	11	.02	20	.11	3	.09	8	<2	63	<5	.01	<5	70	236	15
280666	.1	2.01	<5	5	40	<10	5.50	<1	18	18	460	3.63	.22	1.26	1743	1	.03	16	.13	7	.10	3	<2	103	6	.01	<5	55	125	2
280667	.3	2.26	7	6	36	<10	4.91	<1	21	28	476	4.20	.24	1.41	1668	2	.03	18	.14	10	.11	<2	<2	108	<5	.02	<5	72	130	14
280668	3.5	2.51	16	10	35	<10	4.35	4	22	31	1602	5.21	.22	1.10	1603	3	.03	19	.15	26	.19	84	<2	87	<5	.01	<5	60	290	29
280669	1.3	1.79	15	8	26	<10	3.86	<1	14	26	432	3.70	.28	.97	1355	2	.02	12	.16	14	.05	9	<2	68	<5	.02	<5	47	168	3
280670	.5	2.44	7	<5	31	<10	3.49	<1	22	51	770	3.95	.12	1.92	1647	8	.02	25	.13	7	.06	3	<2	52	<5	.01	<5	76	156	15
280671	.6	2.07	10	<5	42	<10	3.89	<1	19	74	1160	3.62	.14	1.73	1462	13	.02	27	.15	4	.10	<2	<2	74	<5	.02	<5	87	123	20
280672	.2	2.73	27	<5	96	<10	3.45	<1	26	54	175	4.34	.18	2.42	1646	3	.01	25	.14	3	.01	<2	<2	70	<5	.03	<5	79	138	64
280673	.1	2.01	28	<5	24	<10	3.42	<1	22	57	43	3.38	.20	1.62	1544	7	.02	19	.13	2	.01	3	<2	71	<5	.02	<5	69	99	20
280674	.2	1.61	12	<5	19	<10	3.59	<1	14	40	62	2.97	.20	1.21	1396	4	.02	14	.16	5	.01	3	<2	75	<5	.01	<5	58	80	21
280675	.5	1.73	7	<5	19	<10	3.55	<1	15	52	301	3.25	.23	1.25	1632	7	.02	13	.13	9	.02	2	<2	64	<5	.02	<5	50	133	1
280676	1.8	1.12	<5	5	37	<10	4.82	2	11	47	573	2.86	.26	.63	1630	3	.02	9	.10	10	.05	21	<2	70	<5	.01	<5	42	134	6
280677	1.3	1.09	<5	9	1434	<10	7.38	2	18	14	958	4.21	.23	1.02	3473	4	.04	13	.17	14	.17	13	<2	170	<5	.02	<5	53	178	5
280678	1.1	.96	9	6	103	<10	5.31	<1	16	17	1169	3.45	.21	.97	1938	2	.05	14	.19	17	.18	<2	<2	171	<5	.01	<5	53	145	23
280679	.7	2.02	18	6	670	<10	3.90	<1	21	26	2416	4.12	.19	1.20	1796	3	.03	16	.12	13	.30	4	<2	120	<5	.01	<5	44	195	15
280680	.6	2.24	<5	7	72	<10	3.60	1	22	22	2015	4.33	.20	1.39	1649	3	.04	17	.15	8	.23	<2	<2	124	<5	.01	<5	51	162	4
280681	.7	3.09	<5	6	48	<10	3.75	1	34	27	1150	6.02	.19	1.88	2015	4	.03	22	.17	4	.11	<2	<2	109	<5	.02	<5	62	234	3
280682	1.5	1.84	8	<5	68	<10	3.35	<1	18	27	480	4.06	.15	1.56	1538	2	.02	17	.16	2	.04	<2	<2	50	<5	.01	<5	86	178	46
280683	1.6	1.70	<5	<5	68	<10	3.55	<1	15	30	336	3.66	.16	1.44	1547	4	.03	14	.15	6	.03	<2	<2	52	<5	.01	<5	79	166	3
280684	.5	1.69	<5	<5	45	<10	3.37	<1	17	28	263	3.73	.16	1.47	1395	2	.03	14	.17	10	.03	5	<2	52	<5	.02	<5	79	131	2
280685	4.4	2.06	11	<5	79	<10	3.15	<1	19	32	949	3.84	.14	1.64	1845	4	.02	13	.16	2	.12	<2	<2	40	<5	.01	<5	64	212	3

ELEMENT SAMPLE	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Sn ppm	Sr ppm	Te ppm	Ti %	Tl ppm	V ppm	Zn ppm	Au* ppb
280686	2.9	1.97	<5	5	503	<10	6.83	1	19	28	959	4.15	.18	1.33	2103	8	.02	19	.19	12	.16	3	<2	110	<5	.02	<5	67	174	7
280687	3.1	2.23	124	<5	63	<10	2.24	1	47	26	2508	5.79	.16	1.25	2009	106	.02	13	.12	73	2.35	3	<2	50	<5	.02	<5	37	198	27
280688	.2	2.01	6	<5	53	<10	2.86	<1	17	30	233	3.71	.15	1.46	2095	5	.03	12	.11	19	.08	<2	<2	59	<5	.01	<5	50	197	35
280689	.3	2.53	8	<5	246	<10	2.19	<1	22	32	188	5.01	.15	1.64	2446	10	.03	13	.13	22	.39	<2	<2	73	<5	.02	<5	49	236	13
280690	2.1	.94	<5	<5	55	<10	4.52	<1	9	42	352	1.80	.16	.62	1561	8	.03	10	.10	9	.05	<2	<2	80	<5	.01	<5	32	99	1
280691	.1	.99	<5	<5	41	<10	4.03	<1	9	42	128	2.18	.14	.72	1454	7	.03	10	.09	4	.02	<2	<2	59	<5	.02	<5	44	101	1
280692	.2	1.20	13	<5	63	<10	3.21	<1	12	29	92	2.33	.17	.69	1452	5	.03	9	.10	10	.04	<2	<2	84	<5	.01	<5	32	115	1
280693	.1	1.58	14	<5	244	<10	5.11	<1	17	28	249	3.45	.20	.92	2426	7	.02	11	.13	15	.05	<2	<2	67	<5	.02	<5	55	173	2
280694	.3	.67	12	<5	752	<10	12.47	<1	13	30	470	2.29	.15	.43	3335	8	.02	7	.05	28	.12	<2	<2	127	<5	.01	<5	20	130	1
280695	.9	.77	8	<5	872	<10	4.50	<1	17	21	735	3.64	.20	.32	2719	6	.03	8	.12	8	.14	<2	<2	85	<5	.02	<5	19	164	7
280696	.8	1.28	6	<5	662	<10	4.98	<1	18	39	2095	3.70	.22	.33	2110	5	.02	12	.13	3	.24	<2	<2	76	<5	.02	<5	19	194	6
280697	.3	1.25	8	<5	1498	<10	5.05	<1	16	46	483	3.14	.17	.29	1609	7	.02	9	.07	7	.10	<2	<2	83	<5	.01	<5	12	186	5
280698	.5	1.18	7	<5	582	<10	4.46	<1	16	35	758	2.91	.21	.27	1497	8	.02	11	.12	11	.18	<2	<2	77	<5	.02	<5	18	162	4
280699	.1	.78	8	5	521	<10	3.82	<1	14	27	242	2.71	.22	.32	1491	5	.03	8	.14	7	.08	<2	<2	85	<5	.01	<5	25	145	42
280700	.2	1.14	10	<5	46	<10	4.88	<1	15	21	94	2.94	.23	.45	1066	2	.03	10	.15	11	.02	3	<2	86	<5	.02	<5	36	110	95
280701	.1	1.12	7	<5	42	<10	4.88	<1	13	39	194	2.89	.20	.57	1186	6	.03	11	.12	7	.03	<2	<2	78	<5	.01	<5	46	107	21
280702	3.0	1.83	6	5	167	<10	6.57	1	21	29	247	4.13	.21	.89	2582	8	.03	15	.13	15	.22	<2	<2	99	<5	.02	<5	58	238	12
280703	.1	1.53	8	<5	39	<10	5.16	<1	19	27	94	4.17	.25	.74	1688	4	.04	21	.14	9	.02	2	<2	114	<5	.01	<5	78	163	13
280704	.2	1.58	9	<5	37	<10	5.36	<1	18	26	47	3.91	.21	.89	1811	2	.03	16	.13	7	.03	<2	<2	89	<5	.02	<5	66	149	8
280705	.1	1.16	22	<5	38	<10	5.83	<1	13	29	325	2.90	.20	.37	1893	5	.02	11	.12	8	.13	<2	<2	79	<5	.01	<5	33	131	2
284301	.1	1.58	16	<5	95	<10	1.32	<1	16	46	349	3.00	.10	1.44	649	5	.03	26	.17	2	.02	<2	<2	24	<5	.09	<5	88	86	2
284302	.2	2.15	18	<5	54	<10	4.85	<1	19	27	188	3.91	.09	1.73	716	2	.02	27	.19	6	.01	3	<2	65	<5	.02	<5	84	86	38
284303	.1	1.36	9	<5	34	<10	7.15	<1	20	22	295	3.54	.06	.82	791	4	.01	25	.16	4	.02	<2	<2	83	<5	.01	<5	85	107	7
284304	.1	2.22	20	<5	36	<10	4.53	<1	18	35	139	3.60	.10	1.68	725	2	.02	27	.17	3	.01	<2	<2	63	<5	.02	<5	72	80	9
284305	.2	1.81	6	<5	36	<10	4.15	<1	16	29	144	3.34	.11	1.47	585	4	.02	19	.18	2	.02	<2	<2	52	<5	.01	<5	63	78	8
284306	.1	1.48	7	<5	29	<10	7.08	<1	14	28	57	2.80	.09	.65	633	2	.01	20	.17	3	.01	<2	<2	72	<5	.02	<5	57	72	10
284307	.2	1.62	8	<5	29	<10	1.43	<1	19	32	342	3.38	.08	1.31	540	5	.03	18	.21	12	.21	3	<2	27	<5	.11	<5	95	69	7
284308	.4	1.52	11	<5	26	<10	1.21	<1	43	31	370	3.58	.07	1.19	435	5	.03	20	.19	4	1.15	<2	<2	19	<5	.08	<5	73	56	2
284309	7.4	1.37	18	<5	174	<10	1.51	<1	13	40	95	3.08	.23	1.09	343	2	.04	18	.20	2	.02	<2	<2	41	<5	.15	<5	99	55	2
284310	.2	1.39	7	<5	276	<10	1.08	<1	14	42	105	2.97	.15	1.19	402	4	.03	21	.18	6	.03	<2	<2	33	<5	.11	<5	87	65	4
284311	.5	1.52	<5	<5	26	<10	1.21	<1	15	42	651	2.40	.06	1.42	606	2	.02	23	.20	10	.21	<2	<2	28	<5	.06	<5	56	93	2
284312	.4	1.82	6	<5	28	<10	1.33	<1	16	44	949	2.88	.05	1.68	682	4	.02	25	.19	9	.16	<2	<2	34	<5	.08	<5	69	94	2
284313	.3	1.60	<5	<5	225	<10	2.16	<1	53	34	125	2.70	.04	1.34	523	4	.02	20	.21	31	.87	<2	<2	41	<5	.06	<5	46	143	1
284314	.2	1.67	<5	<5	78	<10	1.43	<1	28	40	283	3.07	.08	1.31	382	1	.03	26	.18	8	.65	<2	<2	42	<5	.09	<5	74	63	2
284315	.6	1.40	<5	<5	267	<10	.86	<1	21	46	544	3.22	.16	1.27	380	2	.04	25	.19	12	.61	<2	<2	32	<5	.13	<5	83	76	2
284316	.5	1.47	<5	<5	123	<10	1.09	<1	17	49	133	3.07	.13	1.17	333	4	.04	25	.17	4	.46	<2	<2	33	<5	.13	<5	79	50	1
284317	.2	1.55	11	<5	45	<10	1.10	<1	14	47	139	3.12	.07	1.29	517	2	.03	22	.16	8	.08	<2	<2	24	<5	.07	<5	78	77	1
284318	.1	1.60	<5	<5	79	<10	1.15	<1	19	47	410	3.64	.08	1.23	488	3	.04	18	.18	9	.17	3	<2	30	<5	.10	<5	98	76	3
284319	.2	1.39	22	<5	56	<10	1.06	<1	14	32	116	3.29	.10	1.08	360	2	.03	20	.20	10	.09	<2	<2	22	<5	.12	<5	98	54	2
284320	2.4	1.93	15	<5	15	<10	1.96	2	123	49	2305	6.39	.06	1.67	778	6	.02	44	.18	43	3.83	<2	<2	46	<5	.07	<5	74	283	3
284321	.4	1.97	11	<5	13	<10	1.25	<1	19	36	602	3.53	.05	1.72	705	3	.03	21	.17	10	.26	<2	<2	35	<5	.08	<5	75	88	10
284322	.2	1.68	5	<5	373	<10	1.15	<1	19	59	255	3.45	.10	1.48	548	2	.03	27	.16	7	.26	<2	<2	34	<5	.13	<5	89	89	8
284323	.6	1.56	18	<5	114	<10	1.20	<1	16	52	1145	3.48	.10	1.36	482	1	.04	25	.17	6	.14	3	<2	42	<5	.13	<5	99	55	36
284324	.4	1.56	5	<5	38	<10	1.07	<1	13	32	783	3.15	.05	1.29	456	2	.03	16	.16	4	.08	<2	<2	28	<5	.10	<5	83	52	21
284325	.2	1.49	11	<5	810	<10	6.31	<1	14	20	638	2.59	.13	.77	700	1	.02	17	.18	5	.15	<2	<2	165	<5	.01	<5	47	55	5

ELEMENT SAMPLE	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Sn ppm	Sr ppm	Te ppm	Ti %	Tl ppm	V ppm	Zn ppm	Au* ppb
284326	.1	1.68	<5	<5	36	<10	5.51	<1	20	21	557	2.88	.09	1.32	803	1	.02	16	.19	12	.20	<2	<2	77	<5	.01	<5	67	70	1
284327	.2	1.62	<5	6	38	<10	2.25	<1	16	29	135	3.43	.06	1.41	562	2	.04	18	.20	2	.07	<2	<2	48	<5	.07	<5	104	56	1
284328	.3	1.78	10	<5	13	<10	1.58	1	17	52	1310	2.28	.03	1.65	586	6	.02	28	.19	30	.17	<2	<2	46	<5	.05	<5	54	99	3
284329	.4	1.63	<5	<5	64	<10	1.27	<1	16	48	685	3.28	.08	1.51	587	1	.04	28	.20	14	.10	<2	<2	33	<5	.10	<5	100	73	2
284330	.3	2.04	<5	<5	56	<10	2.58	<1	18	35	659	3.86	.05	1.66	1017	2	.03	24	.21	10	.11	<2	<2	43	<5	.09	<5	107	109	1
284331	.1	1.79	<5	<5	26	<10	1.47	<1	17	33	346	3.66	.05	1.53	742	1	.03	21	.20	6	.06	<2	<2	44	<5	.11	<5	101	80	2
284332	3.6	1.68	6	<5	47	<10	1.32	<1	17	34	783	3.26	.06	1.37	571	1	.03	19	.19	8	.16	<2	<2	45	<5	.10	<5	84	67	5
284333	.2	1.48	12	<5	49	<10	1.27	<1	12	33	190	3.19	.07	1.05	371	2	.04	18	.20	5	.03	<2	<2	38	<5	.08	<5	96	40	8
284334	.4	1.55	20	<5	62	<10	1.69	<1	18	33	567	2.87	.05	1.10	454	1	.03	20	.19	9	.30	<2	<2	45	<5	.06	<5	73	46	3
284335	.2	1.52	7	<5	314	<10	1.53	<1	17	28	368	2.84	.06	1.06	436	2	.04	19	.20	10	.18	<2	<2	84	<5	.07	<5	79	70	1
284336	.3	1.74	<5	<5	172	<10	1.71	<1	14	36	193	3.48	.08	1.16	468	1	.04	20	.20	7	.05	<2	<2	70	<5	.09	<5	101	51	3
284337	.2	1.52	13	<5	321	<10	1.86	<1	13	30	205	3.37	.05	1.22	620	2	.03	19	.19	9	.04	<2	<2	56	<5	.08	<5	91	66	2
284338	.1	1.67	14	<5	350	<10	1.93	<1	15	37	161	3.63	.08	1.28	555	7	.04	21	.20	7	.04	3	<2	51	<5	.10	<5	104	65	1
284339	.1	1.48	6	<5	86	<10	1.52	<1	13	36	380	3.39	.05	1.15	468	3	.03	20	.21	8	.05	3	<2	40	<5	.09	<5	98	52	2
284340	1.4	1.70	14	<5	204	<10	1.62	<1	26	40	2601	3.66	.05	1.47	719	2	.02	25	.19	36	.74	<2	<2	51	<5	.07	<5	77	100	3
284341	.2	1.40	6	<5	20	<10	2.15	<1	13	43	595	2.75	.06	1.30	715	3	.03	24	.21	14	.12	3	<2	33	<5	.05	<5	84	74	2
284342	.9	1.93	7	<5	9	<10	2.12	<1	17	45	1712	2.57	.03	1.71	901	4	.01	27	.18	9	.15	<2	<2	55	<5	.04	<5	52	107	3
284343	6.2	2.05	19	<5	12	<10	1.32	<1	24	47	5010	3.03	.02	1.86	816	8	.02	32	.17	7	.43	<2	<2	45	<5	.04	<5	44	91	4
284344	.4	2.12	10	<5	27	<10	2.88	<1	20	41	2281	3.29	.05	1.98	1123	1	.02	36	.19	6	.21	<2	<2	39	5	.04	<5	68	112	3
284345	2.0	1.73	5	<5	7	<10	1.41	<1	22	47	5257	2.75	.04	1.30	823	3	.01	23	.15	8	.44	<2	<2	78	<5	.03	<5	34	94	2
284346	1.2	1.72	26	<5	17	<10	1.74	<1	18	44	1777	2.37	.05	1.40	943	4	.02	21	.17	3	.15	<2	<2	66	<5	.04	<5	44	122	3
284347	.3	1.74	13	<5	40	<10	1.73	<1	18	33	253	3.73	.06	1.66	1055	2	.02	20	.19	12	.03	<2	<2	34	<5	.09	<5	98	106	2
284348	.4	1.78	6	<5	68	<10	1.75	<1	19	37	538	3.82	.06	1.66	956	2	.03	23	.20	9	.18	<2	<2	37	<5	.09	<5	103	90	3
284349	.2	1.63	12	<5	70	<10	2.19	<1	16	31	592	3.93	.09	1.53	991	3	.03	19	.21	10	.07	<2	<2	31	<5	.09	<5	105	98	2
284350	.7	1.36	24	<5	16	<10	1.68	<1	14	51	4850	2.28	.07	.86	755	4	.01	14	.15	3	.38	<2	<2	91	<5	.03	<5	30	65	3

PIONEER LABORATORIES INC. #103-2691 VISCOUNT WAY RICHMOND, BC CANADA V6V 2R5 TELEPHONE (604) 231-8165

GEOCHEMICAL ANALYSIS CERTIFICATE

SNL ENTERPRISES LTD.
Project: Logan Copper
Sample Type: Cores

Multi-element ICP Analysis - 0.500 gram sample is digested with 3 ml of aqua regia, diluted to 10 ml with water. This leach is partial for B, Ba, Cr, Fe, Mg, Mn, Na, P, S, Sn, Ti and limited for Na, K and Al. *Au Analysis- 20 gram sample is digested with aqua regia, MIBK extracted, and is finished by AA or graphite furnace AA.

Analyst [signature]
Report No. 2092314
Date: July 21, 2009

ELEMENT SAMPLE	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Sn ppm	Sr ppm	Te ppm	Ti %	Tl ppm	V ppm	Zn ppm	Au* ppb
280706	.1	1.97	21	6	22	<10	1.78	<1	10	28	159	3.71	.05	1.38	447	2	.04	12	.11	2	.01	5	<2	39	<5	.07	<5	126	47	2
280707	.8	1.39	29	<5	35	<10	.76	1	74	28	268	5.01	.05	1.12	359	11	.04	13	.12	14	1.93	7	<2	60	<5	.08	<5	76	49	1
280708	.3	2.10	22	<5	28	<10	1.58	<1	19	40	443	3.71	.06	1.76	579	4	.03	17	.11	7	.02	4	<2	46	<5	.09	<5	116	44	4
280709	.4	1.44	21	<5	25	<10	1.26	<1	11	28	609	3.55	.08	1.42	583	6	.04	14	.10	17	.04	2	<2	54	<5	.08	<5	122	84	1
280710	.1	1.41	7	<5	>10,000	<10	2.21	<1	14	30	257	3.60	.09	1.25	626	2	.05	14	.11	5	.03	6	<2	49	<5	.07	<5	131	44	1
280711	.9	2.07	<5	5	65	<10	6.34	1	23	23	157	4.62	.23	1.27	1190	1	.02	16	.12	8	.01	2	<2	59	<5	.01	<5	95	118	1
280712	.1	2.16	10	<5	118	<10	2.85	<1	18	34	351	3.57	.06	2.39	997	3	.04	21	.11	13	.03	<2	<2	63	<5	.07	<5	114	55	1
280713	.3	1.76	16	<5	67	<10	2.51	<1	23	28	167	3.45	.08	1.69	830	2	.03	17	.10	10	.30	8	<2	58	<5	.05	<5	88	60	1
280714	.2	1.86	18	6	54	<10	5.26	<1	21	21	71	4.02	.22	1.80	1932	2	.01	24	.11	16	.03	10	<2	93	<5	.01	<5	79	130	2
280715	4.1	.62	27	<5	800	<10	5.36	2	14	13	851	3.53	.24	1.48	2299	1	.02	10	.10	25	.13	20	<2	109	<5	.01	<5	54	140	3
280716	2.0	1.81	11	7	107	<10	5.12	2	24	18	877	4.80	.24	1.36	1995	3	.01	20	.11	41	.15	12	<2	77	6	.02	<5	49	269	1
280717	.4	1.38	24	6	905	<10	5.37	1	18	19	247	3.97	.25	.66	2018	4	.01	13	.08	4	.08	6	<2	76	<5	.01	<5	34	229	1
280718	1.1	1.06	<5	6	24	<10	5.09	1	17	15	344	3.62	.26	.58	2050	1	.02	14	.09	5	.07	8	<2	74	<5	.01	<5	33	270	1
280719	1.4	.56	15	<5	2630	<10	6.98	2	13	14	309	2.70	.30	.66	2458	2	.01	10	.08	12	.11	16	<2	105	<5	.01	<5	34	131	1
280720	1.7	.78	14	6	2342	<10	5.38	2	17	15	581	3.51	.26	1.07	2332	3	.02	11	.09	19	.13	16	<2	116	<5	.01	<5	50	125	1
280721	.4	1.99	8	6	52	<10	4.59	1	18	18	325	3.91	.30	.92	1531	2	.01	16	.08	11	.05	11	<2	80	<5	.02	<5	51	198	1
280722	1.3	2.40	17	7	23	<10	3.53	1	21	22	996	4.80	.32	1.23	1494	1	.01	18	.09	9	.26	<2	<2	73	<5	.01	<5	62	192	1
280723	1.5	1.32	7	7	50	<10	4.16	1	13	15	1283	2.54	.30	.55	1367	4	.01	10	.09	8	.29	6	<2	77	<5	.01	<5	35	114	1
280724	.6	1.32	<5	<5	64	<10	6.47	<1	13	15	884	2.87	.25	.45	2091	2	.02	12	.07	4	.17	8	<2	91	<5	.01	<5	40	139	1
280725	.1	1.80	<5	7	36	<10	4.93	1	18	16	661	3.97	.25	.62	1803	3	.01	16	.08	8	.10	7	<2	74	<5	.02	<5	46	222	1
280726	.8	1.42	20	6	21	<10	4.31	1	20	25	1440	3.61	.23	.45	1552	13	.01	14	.07	19	.71	3	<2	58	<5	.01	<5	37	255	5
280727	1.0	2.57	9	6	35	<10	3.55	<1	27	32	1600	5.26	.24	1.30	2110	8	.01	18	.08	12	.49	<2	<2	60	<5	.01	<5	52	272	4
280728	.3	2.32	<5	9	35	<10	4.78	<1	19	17	904	4.23	.33	1.13	1833	3	.02	19	.12	16	.17	<2	<2	101	<5	.01	<5	60	200	3
280729	1.7	1.76	<5	7	37	<10	4.85	<1	16	18	4801	3.59	.32	.72	1868	4	.02	12	.09	17	.75	2	<2	85	<5	.01	<5	36	181	2
280730	2.9	2.02	14	7	97	<10	3.95	<1	19	19	>10,000	4.57	.28	1.02	1802	4	.03	15	.09	32	1.06	2	<2	77	<5	.02	<5	40	201	6
280731	.4	2.36	<5	8	89	<10	4.76	<1	19	17	546	4.19	.25	1.36	2144	2	.02	17	.10	12	.11	4	<2	86	<5	.01	<5	50	253	1
280732	.3	2.95	16	<5	278	<10	3.92	<1	22	21	249	5.20	.20	2.16	2681	1	.02	15	.09	15	.05	<2	<2	75	<5	.01	<5	67	351	1
280733	.1	2.89	10	5	103	<10	3.87	<1	23	19	228	5.04	.18	2.13	2563	2	.02	15	.08	13	.04	<2	<2	65	<5	.01	<5	62	348	1
280734	.2	2.22	<5	6	2147	<10	3.62	<1	19	37	266	4.04	.27	1.52	1696	4	.01	18	.10	16	.09	<2	<2	90	<5	.01	<5	63	259	1
280735	.1	2.20	<5	5	75	<10	4.54	<1	18	21	164	3.99	.25	1.52	2205	1	.02	17	.09	14	.03	<2	<2	101	<5	.02	<5	65	258	1
280736	.1	1.72	12	5	56	<10	4.78	<1	17	25	116	3.66	.31	1.21	1706	3	.02	18	.11	12	.02	5	<2	100	<5	.01	<5	78	175	3
280737	.1	1.74	<5	<5	126	<10	4.00	<1	17	21	614	3.62	.26	1.38	1628	1	.02	16	.10	13	.08	<2	<2	78	<5	.01	<5	71	174	2
280738	1.3	1.95	7	7	575	<10	4.46	<1	16	24	3019	3.83	.28	1.26	1887	2	.01	17	.09	18	.38	4	<2	100	<5	.02	<5	61	201	2
280739	.1	1.60	<5	<5	303	<10	6.03	<1	13	25	1102	2.93	.23	1.02	1977	2	.02	14	.07	13	.16	<2	<2	86	<5	.01	<5	42	170	1
280740	.2	2.29	6	6	31	<10	3.55	<1	18	20	317	4.16	.28	1.69	1786	2	.02	20	.11	22	.06	3	<2	88	<5	.01	<5	78	228	1

ELEMENT SAMPLE	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Sn ppm	Sr ppm	Te ppm	Ti %	Tl ppm	V ppm	Zn ppm	Au* ppb
280741	.1	2.22	14	6	52	<10	2.69	<1	18	23	102	4.52	.29	1.85	1380	3	.02	20	.11	14	.02	<2	<2	91	8	.02	<5	96	184	1
280742	.1	1.96	9	6	195	<10	3.13	<1	17	19	130	3.82	.24	1.60	1548	1	.02	20	.11	11	.03	3	<2	82	8	.01	<5	70	200	1
280743	.2	2.42	12	6	568	<10	3.26	<1	17	29	703	4.13	.23	1.82	2185	3	.02	16	.10	31	.15	<2	<2	77	<5	.01	<5	59	251	1
280744	.3	2.26	5	6	58	<10	3.28	<1	16	17	285	3.61	.26	1.61	1860	3	.03	14	.11	34	.11	<2	<2	78	<5	.02	<5	53	317	1
280745	.1	2.13	<5	5	35	<10	4.01	<1	15	18	345	3.65	.25	1.50	1806	1	.02	14	.11	21	.07	<2	<2	103	<5	.01	<5	55	216	1
280746	.3	1.78	9	5	106	<10	4.39	<1	12	12	180	2.50	.27	1.03	2017	3	.02	12	.11	27	.08	<2	<2	107	<5	.01	<5	41	186	1
280747	.1	2.10	14	7	33	<10	3.88	7	16	14	290	3.35	.27	1.35	1926	1	.02	14	.12	190	.09	2	<2	98	<5	.03	<5	52	517	2
280748	.2	1.49	9	<5	32	<10	3.59	<1	14	21	270	3.11	.27	1.10	1522	1	.03	14	.13	25	.07	5	<2	78	<5	.02	<5	67	161	1
280749	.1	1.76	<5	<5	44	<10	3.58	<1	17	23	103	3.80	.19	1.59	1635	2	.02	15	.12	17	.01	<2	<2	68	7	.01	<5	90	195	1
280750	4.3	1.93	<5	<5	269	<10	3.27	<1	17	31	129	4.01	.19	1.70	2147	11	.01	19	.11	104	.05	4	<2	66	9	.01	<5	94	246	1
284001	.7	1.73	<5	5	133	<10	4.47	<1	17	36	186	3.88	.22	1.55	2565	2	.02	20	.12	2889	.07	<2	<2	65	7	.01	<5	98	233	1
284002	2.7	1.82	13	<5	87	<10	4.16	35	17	39	87	3.88	.27	1.55	3157	3	.02	20	.11	6339	.34	<2	<2	66	7	.02	<5	96	4002	2
284003	.1	1.95	14	6	54	<10	2.94	2	19	43	40	4.18	.23	1.79	2096	3	.02	21	.12	193	.03	<2	<2	53	13	.01	<5	99	702	1
284004	38.0	2.01	14	<5	55	<10	3.17	21	19	35	55	4.28	.20	1.84	2682	2	.02	21	.10	6846	.28	<2	<2	51	6	.01	<5	107	2708	2
284005	.2	1.95	8	<5	88	<10	2.52	33	18	41	190	4.04	.14	1.89	1842	4	.03	17	.11	56	.26	<2	<2	38	11	.01	<5	95	3909	1
284006	.1	1.67	6	<5	407	<10	3.89	28	16	40	77	3.62	.16	1.60	2860	3	.02	14	.12	33	.23	<2	<2	54	9	.02	<5	82	3451	1
284007	.2	1.14	234	<5	22	<10	2.78	<1	22	67	129	3.84	.17	.68	1093	31	.01	15	.11	27	2.51	<2	<2	39	9	.01	<5	29	110	1
284008	1.2	1.86	105	<5	42	<10	3.94	6	21	34	382	4.60	.20	1.17	1619	5	.03	17	.12	187	2.24	<2	<2	81	9	.01	<5	54	1236	11
284009	.4	2.22	<5	<5	36	<10	.85	<1	17	53	1113	4.92	.07	1.86	2203	4	.02	15	.11	12	.20	<2	<2	40	10	.07	<5	75	164	5
284010	.1	1.60	17	6	186	<10	1.88	<1	14	47	353	3.57	.19	1.34	621	2	.06	17	.12	10	.03	<2	<2	62	7	.21	<5	119	53	1

ELEMENT	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sn	Sr	Te	Ti	Tl	V	Zn	Au*
SAMPLE	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppb

ELEMENT	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sn	Sr	Te	Ti	Tl	V	Zn	Au*
SAMPLE	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppb

Cost Statement

Exploration Work type	Dates		Comment	Units		Rate	Subtotal
Personnel Name (Position)	**From**	**To**	**Field Days**	**Units**		**Rate**	**Subtotal**
Borislav Raynov (Geologist)	14-May-09	9-Jul-09	May 14,15,21,22,26-29	69	Hours	$ 80.00	**$ 5,520.00**
			June 4,5,10-12,16-19,23,24	102	Hours	$ 80.00	**$ 8,160.00**
			July 3-9	66	Hours	$ 80.00	**$ 5,280.00**
Dr. Jon Pan (Geologist)	14-May-09	19-Jul-09	May 14,15,20-22,25-29	10	Days	$ 500.00	**$ 5,000.00**
			June 4-19, 27-30	20	Days	$ 500.00	**$ 10,000.00**
			July 1-10	10	Days	$ 500.00	**$ 5,000.00**
Peter Palikot (General Manager)	14-May-09	3-Aug-09	May 14,15	2	Days	$ 400.00	**$ 800.00**
			Jun 4,5,12,13,16-18,20,23-26,28	13	Days	$ 400.00	**$ 5,200.00**
			July 1,9,10,28,31	4	Days	$ 400.00	**$ 1,600.00**
			Aug 1-3	3	Days	$ 400.00	**$ 1,200.00**
Matt Hercun (Core Cutter)	12-Jun-09	22-Jul-09	Jun 12-19, 27-30	12	Days	$ 300.00	**$ 3,600.00**
			July 1-10, 20-22	13	Days	$ 300.00	**$ 3,900.00**
Paul Dupras (Field Personnel)	1-Jul-09	1-Jul-09	July 1	1	Days	$ 300.00	**$ 300.00**
							$ 55,560.00
Office Studies	**From**	**To**	**Office Days**	**Units**			
Consultation							
Peter Palikot (General Manager)	11-May-09	7-Aug-09		6.0	Days	$ 300.00	**$ 1,800.00**
General research							
Borislav Raynov (Geologist)	11-May-09	3-Jun-09		18.0	Hours	$ 70.00	**$ 1,260.00**
Dr. Jon Pan (Geologist)	14-May-09	31-Jul-09		4.0	Days	$ 400.00	**$ 1,600.00**
Peter Palikot (General Manager)				4.0	Days	$ 300.00	**$ 1,200.00**
Database compilation							

Borislav Raynov (Geologist)	15-Jun-09	30-Jul-09	16.0 Hours	$ 70.00	$	**1,120.00**
Report preparation & Database compilation						
Dr. Jon Pan (Geologist)	15-Dec-09	28-Feb-10	1 ARIS Report		$	**5,000.00**
					$	**11,980.00**

Geochemical Analysis	**Procedure**	**No.**	**Rate**	**Subtotal**	
Pioneer Laboratories	Cu Assay	1.00 Samples	$ 8.50	$	**8.50**
	Au Analysis 20 gm	160.00 Samples	$ 8.25	$	**1,320.00**
	ICP Analysis	160.00 Samples	$ 8.50	$	**1,360.00**
	Core Sample Preparation	160.00 Samples	$ 6.75	$	**1,080.00**
	Assay Tag Books	10.00 Units	$ 7.00	$	**70.00**
	Ties	1000.00 Units	$ 0.04	$	**35.00**
	6ml 12" X 20" sample bags	200.00 Units	$ 0.23	$	**46.00**
	HCL Acid	1.00 Units	$ 15.00	$	**15.00**
				$	**3,934.50**

Drilling	**Description**	**No.**	**Rate**	**Subtotal**	
Diamond Drilling	Super 38 longyear, Two holes, NQ Core	1470.0 Feet	$ 60.00	$	**88,200.00**
Bulldozer	D4 Caterpillar and operator *(for mobilization of drill rig and reclamation)*	51.0 Hours	$ 150.00	$	**7,650.00**
				$	**95,850.00**

Transportation	**From**	**To**	**No.**	**Rate**	**Subtotal**	
Truck Rental						
Ford F-150 Crew	1-Jun-09	31-Jul-09	2.00 Months	$ 3,000.00	$	**6,000.00**
Ford F-150 Quad Cab	1-Jun-09	31-Jul-09	2.00 Months	$ 3,000.00	$	**6,000.00**
Ford F-150 Quad Cab	1-Jul-09	31-Jul-09	1.00 Months	$ 3,000.00	$	**3,000.00**
Ford F-150 Quad Cab	1-Jun-09	31-Jul-09	2.00 Months	$ 3,000.00	$	**6,000.00**
Kilometers			2720.00 Kilometers	$ 0.54	$	**1,468.80**

Fuel						$	2,247.60
						$	24,716.40
Accommodation & Food			**No.**		**Rate**		
Hotel	14-May-09	4-Aug-09				$	9,065.50
Meals	14-May-09	4-Aug-09	102.00	Days	$ 55.00	$	5,610.00
						$	14,675.50
Miscellaneous			**No.**		**Rate**		
Core Shack Rental	1-Jun-09	31-Jul-09	2.00		$ 300.00	$	600.00
Core Storage Rental	1-Jun-09	31-Jul-09	2.00		$ 100.00	$	200.00
						$	800.00
TOTAL Expenditures							**$207,516.40**