



42A05NE0091 2.16712 CARSCALLEN

010

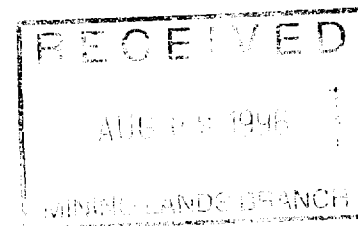
ANALYSIS OF DRILL CORE FROM CARSCALLEN TWP.

BIGMASH LAKE PROPERTY

CARSCALLEN TWP. (G3040)

NTS: 42A/5

2.16712



MAY 1996

ANDREA WALDIE
(FOR LIONEL BONHOMME)

REPORT

In July of 1996 a total of 86 rock drill core samples were collected from core stored at the Timmins Core Library. Sample intervals averaged 1-2 feet in width. The interval was split with half of the sample being sent to TSL for whole rock analysis along with selected samples being submitted to Swastika Labs for gold and base metal geochemical analysis. The report of analysis is included within.

Samples 16839 - 16850 and 59601 - 59669 were obtained from holes BM-1, 3, 4, 7, 8, 9,10 drilled by Cleyo Resources in 1983 in the SE corner of claim 1189844 in Carscallen Twp. Samples 59670 - 59677 were obtained from hole 93BM-01 drilled by BHP Minerals Canada Ltd. In 1993 in the NE corner of claim 1189844. Refer to the accompanying Drill Hole Sample Analysis Information list for a complete breakdown of sample information. The Drilling Compilation Map shows the location of the drill holes.

In addition to the laboratory analysis, 13 samples were submitted for petrographic work. This report is included which contains descriptions for each sample and general observations. Information as to sample location is provided on the Drill Hole Sample Analysis Information list and on the accompanying map. Note, samples 26744, 26746, 26749 and 26750 are located outside claim 1189844 and have not been included in the assessment cost breakdown.

Andrea Walche
May 31/96

**DRILL HOLE SAMPLE ANALYSIS INFORMATION
CARSCALLEN TWP.**

COMPANY NAME (YEAR)	CLAIM # NUMBER	HOLE # NUMBER	SAMPLE NUMBER	SAMPLE LOCATION (ft)	WHOLE ROCK	GEOCHEM ASSAY	PETROGRAPH REPORT
Cleyo Resources (1983)	1189844	BM-5	16833	109.0			√
Cleyo Resources (1983)	1189844	BM-6	16837	157.0			√
Cleyo Resources (1983)	1189844	BM-6	16838	177.0			√
Cleyo Resources (1983)	1189844	BM-1	16839	76.0	√		
Cleyo Resources (1983)	1189844	BM-1	16840	95.0			
Cleyo Resources (1983)	1189844	BM-1	16841	96.0	√	√	
Cleyo Resources (1983)	1189844	BM-1	16842	98.0	√	√	
Cleyo Resources (1983)	1189844	BM-1	16843	117.0	√	√	
Cleyo Resources (1983)	1189844	BM-1	16844	133.0	√	√	
Cleyo Resources (1983)	1189844	BM-1	16845	150.5	√	√	
Cleyo Resources (1983)	1189844	BM-1	16846	179.5	√	√	
Cleyo Resources (1983)	1189844	BM-1	16847	190.0	√	√	
Cleyo Resources (1983)	1189844	BM-3	16848	67.0	√	√	
Cleyo Resources (1983)	1189844	BM-3	16849	71.0	√		
Cleyo Resources (1983)	1189844	BM-3	16850	81.5	√		
Cleyo Resources (1983)	1189844	BM-3	59601	90.0			√
Cleyo Resources (1983)	1189844	BM-3	59602	92.0	√		
Cleyo Resources (1983)	1189844	BM-3	59603	95.0	√		
Cleyo Resources (1983)	1189844	BM-3	59604	101.0	√		
Cleyo Resources (1983)	1189844	BM-3	59605	104.0	√		
Cleyo Resources (1983)	1189844	BM-3	59606	120.5	√		
Cleyo Resources (1983)	1189844	BM-3	59607	151.0	√	√	
Cleyo Resources (1983)	1189844	BM-3	59608	175.0	√	√	
Cleyo Resources (1983)	1189844	BM-3	59609	187.0	√	√	
Cleyo Resources (1983)	1189844	BM-3	59610	205.0	√	√	
Cleyo Resources (1983)	1189844	BM-3	59611	214.0	√		
Cleyo Resources (1983)	1189844	BM-4	59612	82.0	√		
Cleyo Resources (1983)	1189844	BM-4	59613	93.0	√		
Cleyo Resources (1983)	1189844	BM-4	59614	102.0	√		
Cleyo Resources (1983)	1189844	BM-4	59615	104.0	√		
Cleyo Resources (1983)	1189844	BM-4	59616	110.0	√		
Cleyo Resources (1983)	1189844	BM-4	59617	118.0	√	√	
Cleyo Resources (1983)	1189844	BM-4	59618	132.0	√	√	
Cleyo Resources (1983)	1189844	BM-4	59619	158.0	√	√	
Cleyo Resources (1983)	1189844	BM-4	59620	180.0	√	√	
Cleyo Resources (1983)	1189844	BM-4	59621	187.0	√		
Cleyo Resources (1983)	1189844	BM-4	59622	196.5	√		
Cleyo Resources (1983)	1189844	BM-7	59623	73.0	√		
Cleyo Resources (1983)	1189844	BM-7	59624	89.0	√		
Cleyo Resources (1983)	1189844	BM-7	59625	92.0	√	√	√
Cleyo Resources (1983)	1189844	BM-7	59626	111.0	√		
Cleyo Resources (1983)	1189844	BM-7	59627	120.0	√		
Cleyo Resources (1983)	1189844	BM-7	59628	126.0	√		
Cleyo Resources (1983)	1189844	BM-7	59629	138.0	√		
Cleyo Resources (1983)	1189844	BM-7	59630	154.0	√	√	
Cleyo Resources (1983)	1189844	BM-7	59631	173.5	√		
Cleyo Resources (1983)	1189844	BM-7	59632	184.0	√		
Cleyo Resources (1983)	1189844	BM-7	59633	195.0	√		
Cleyo Resources (1983)	1189844	BM-8	59634	51.0	√		
Cleyo Resources (1983)	1189844	BM-8	59635	54.0	√		
Cleyo Resources (1983)	1189844	BM-8	59636	69.0	√		
Cleyo Resources (1983)	1189844	BM-8	59637	79.0	√	√	
Cleyo Resources (1983)	1189844	BM-8	59638	85.0	√	√	
Cleyo Resources (1983)	1189844	BM-8	59639	96.0	√		

**DRILL HOLE SAMPLE ANALYSIS INFORMATION
CARSCALLEN TWP.**

COMPANY NAME (YEAR)	CLAIM # NUMBER	HOLE # NUMBER	SAMPLE NUMBER	SAMPLE LOCATION (ft)	WHOLE ROCK	GEOCHEM ASSAY	PETROGRAPH REPORT
Cleyo Resources (1983)	1189844	BM-8	59640	114.0	√		
Cleyo Resources (1983)	1189844	BM-8	59641	109.0			√
Cleyo Resources (1983)	1189844	BM-8	59642	126.0	√		
Cleyo Resources (1983)	1189844	BM-8	59643	139.0	√		
Cleyo Resources (1983)	1189844	BM-8	59644	152.0	√		
Cleyo Resources (1983)	1189844	BM-8	59645	157.0	√	√	
Cleyo Resources (1983)	1189844	BM-8	59646	172.0	√		
Cleyo Resources (1983)	1189844	BM-8	59647	182.0	√		
Cleyo Resources (1983)	1189844	BM-8	59648	187.0	√	√	
Cleyo Resources (1983)	1189844	BM-8	59649	195.0	√	√	
Cleyo Resources (1983)	1189844	BM-9	59650	62.0	√	√	
Cleyo Resources (1983)	1189844	BM-9	59651	86.0	√		
Cleyo Resources (1983)	1189844	BM-9	59652	101.0	√	√	
Cleyo Resources (1983)	1189844	BM-9	59653	109.0	√		
Cleyo Resources (1983)	1189844	BM-9	59654	118.0	√		
Cleyo Resources (1983)	1189844	BM-9	59655	137.0	√	√	
Cleyo Resources (1983)	1189844	BM-9	59656	138.0	√	√	
Cleyo Resources (1983)	1189844	BM-9	59657	146.0	√	√	
Cleyo Resources (1983)	1189844	BM-9	59658	151.0	√	√	
Cleyo Resources (1983)	1189844	BM-9	59659	160.0	√	√	
Cleyo Resources (1983)	1189844	BM-9	59660	174.0	√	√	
Cleyo Resources (1983)	1189844	BM-9	59661	177.0	√	√	
Cleyo Resources (1983)	1189844	BM-9	59662	181.0	√	√	
Cleyo Resources (1983)	1189844	BM-9	59663	196.0	√	√	
Cleyo Resources (1983)	1189844	BM-10	59664	59.0	√	√	
Cleyo Resources (1983)	1189844	BM-10	59665	84.0	√	√	
Cleyo Resources (1983)	1189844	BM-10	59666	99.5	√	√	
Cleyo Resources (1983)	1189844	BM-10	59667	114.0	√	√	
Cleyo Resources (1983)	1189844	BM-10	59668	122.0	√		
Cleyo Resources (1983)	1189844	BM-10	59669	136.0	√	√	
BHP Minerals (1993)	1189844	93BM-01	59670	144.0	√		
BHP Minerals (1993)	1189844	93BM-01	59671	141.0	√	√	
BHP Minerals (1993)	1189844	93BM-01	59672	377.0	√	√	√
BHP Minerals (1993)	1189844	93BM-01	59673	666.0	√		
BHP Minerals (1993)	1189844	93BM-01	59674	656.0	√		
BHP Minerals (1993)	1189844	93BM-01	59675	774.0	√		
BHP Minerals (1993)	1189844	93BM-01	59676	754.0	√		
BHP Minerals (1993)	1189844	93BM-01	59677	728.0	√		
Alwyn Porcupine (1946)	1189844	AL-4	26733	480.0			√
Carscor Porcupine (1946)	1071949	4	26744	608.0			√
Carscor Porcupine (1946)	1071939	1	26746	430.0			√
Carscor Porcupine (1946)	1071949	8	26749	82.0			√
Carscor Porcupine (1946)	1071949	8	26750	562.0			√

NOTE: the last 4 samples (26744, 46, 49, 50) fall outside claim 1189844 and are therefore not included in the assessment report costs.



Swastika Laboratories

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Page 1 of 3

Geochemical Analysis Certificate

5W-3402-RG1

Company: **L. BONHOMME**

Date: SEP-06-95

Project:

Attn: L. Bonhomme

We hereby certify the following Geochemical Analysis of 86 Core samples submitted AUG-25-95 by .

Sample Number	Au PPB	Au Check PPB	Ag PPM	Co PPM	Cu PPM	Ni PPM	Pb PPM	Zn PPM + minors	WRA
59602	-	-	-	-	-	-	-	-	Results
59603	-	-	-	-	-	-	-	-	to
59604	-	-	-	-	-	-	-	-	follow
59605	-	-	-	-	-	-	-	-	
59606	-	-	-	-	-	-	-	-	
59607	27	-	0.8	-	311	-	13	2090	
59608	34	-	1.4	-	435	-	55	3080	
59609	38	48	0.9	-	231	-	17	3540	
59610	34	38	1.0	-	230	-	15	3040	
59611	-	-	-	-	-	-	-	-	
59612	-	-	-	-	-	-	-	-	
59613	-	-	-	-	-	-	-	-	
59614	-	-	-	-	-	-	-	-	
59615	-	-	-	-	-	-	-	-	
59616	-	-	-	-	-	-	-	-	
59617	21	-	0.5	-	396	-	11	886	
59618	24	-	0.2	-	155	-	1	435	
59619	24	-	0.3	-	93	-	4	1000	
59620	14	-	0.4	-	254	-	4	1000	
59621	-	-	-	-	-	-	-	-	
59622	-	-	-	-	-	-	-	-	
59623	-	-	-	-	-	-	-	-	
59624	-	-	-	-	-	-	-	-	
59625	10	-	0.1	-	28	-	1	49	
59626	-	-	-	-	-	-	-	-	
59627	-	-	-	-	-	-	-	-	
59628	-	-	-	-	-	-	-	-	
59629	-	-	-	-	-	-	-	-	
59630	21	-	0.7	-	286	-	5	1130	
59631	-	-	-	-	-	-	-	-	

Certified by Dennis Chantre



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Sample Number	Au PPB	Au Check PPB	Ag PPM	Co PPM	Cu PPM	Ni PPM	Pb PPM	Zn PPM + minors	WRA
59632	-	-	-	-	-	-	-	-	-
59633	-	-	-	-	-	-	-	-	-
59634	-	-	-	-	-	-	-	-	-
59635	-	-	-	-	-	-	-	-	-
59636	-	-	-	-	-	-	-	-	-
59637	7	-	0.1	-	113	-	1	102	-
59638	17	-	0.5	-	178	-	1	216	-
59639	-	-	-	-	-	-	-	-	-
59640	-	-	-	-	-	-	-	-	-
59642	-	-	-	-	-	-	-	-	-
59643	-	-	-	-	-	-	-	-	-
59644	-	-	-	-	-	-	-	-	-
59645	21	21	0.3	-	442	-	19	1680	-
59646	-	-	-	-	-	-	-	-	-
59647	-	-	-	-	-	-	-	-	-
59648	10	-	0.9	-	443	-	3	1590	-
59649	Nil	-	0.5	-	207	-	1	766	-
59650	7	-	0.2	-	60	-	1	358	-
59651	-	-	-	-	-	-	-	-	-
59652	Nil	-	0.3	-	166	-	6	980	-
59653	-	-	-	-	-	-	-	-	-
59654	-	-	-	-	-	-	-	-	-
59655	21	-	0.1	-	14	-	1	75	-
59656	Nil	-	0.1	-	62	-	1	281	-
59657	38	34	0.4	-	506	-	8	1350	-
59658	Nil	-	0.1	-	45	-	1	263	-
59659	Nil	-	0.1	-	33	-	1	143	-
59660	7	-	0.1	-	55	-	1	231	-
59661	103	103	4.1	-	766	-	112	720	-
59662	24	-	0.1	-	50	-	1	101	-

Certified by Denis Charle



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Page 3 of 3

Geochemical Analysis Certificate

5W-3402-RG1

Company: **L. BONHOMME**

Date: SEP-06-95

Project:

Attn: L. Bonhomme

We hereby certify the following Geochemical Analysis of 86 Core samples submitted AUG-25-95 by .

Sample Number	Au Au Check	Ag	Co	Cu	Ni	Pb	Zn	WRA
	PPB	PPB	PPM	PPM	PPM	PPM	PPM + minors	
59663	Nil	-	0.1	7	15	6	1	98
59664	Nil	-	0.4	-	128	-	2	1190
59665	10	-	0.1	-	41	-	1	168
59666	7	-	1.4	-	50	-	47	2640
59667	Nil	-	0.1	-	76	-	1	306
59668	-	-	-	-	-	-	-	-
59669	58	-	0.2	-	47	-	1	516
59670	-	-	-	-	-	-	-	-
59671	3	-	0.1	-	85	-	1	506
59672	-	-	0.1	-	66	-	-	525
59673	-	-	-	-	-	-	-	-
59674	-	-	-	-	-	-	-	-
59675	-	-	-	-	-	-	-	-
59676	-	-	-	-	-	-	-	-
59677	-	-	-	-	-	-	-	-
16839	-	-	-	-	-	-	-	-
16841	3	-	0.3	-	275	-	3	546
16842	7	-	0.2	-	129	-	4	645
16843	21	24	1.5	-	331	-	9	1960
16844	14	-	0.4	-	155	-	10	1310
16845	3	-	0.2	-	79	-	2	495
16846	3	-	0.2	-	57	-	1	562
16847	58	51	2.0	-	533	-	90	4750
16848	3	-	0.1	-	74	-	1	163
16849	-	-	-	-	-	-	-	-
16850	-	-	-	-	-	-	-	-

Certified by _____

L. BONHOMME

ATTN: L. BONHOMME

TS SS RS OR rie

1270 FEWSTER DRIVE, UNIT 3 MISSISSAUGA, ONTARIO L4W-1A4

PHONE #: (905)602-8236

FAX #: (905)206-0513

REPORT No. : M5619

Page No. : 1 of 3

File No. : AG29RA

Date : AUG-31-1995

I.C.A.P. TOTAL OXIDE ANALYSIS

Lithium MetaBorate Fusion

5W-3402-RG1

SAMPLE #	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	TiO2	MnO	P2O5	Ba	Zr	Y	Sc	Nb	Be	Ni	Cr	Cu	V	Co	In	Rb	LOI	TOTAL
	%	%	%	%	%	%	%	%	%	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	
59602	59.38	16.38	4.73	4.14	1.09	2.74	3.32	0.69	0.09	0.22	510	130	20	17	< 30	1	80	345	30	160	20	95	<0.05	6.81	99.58
59603	47.36	10.82	15.26	8.74	2.48	0.52	1.60	0.56	0.22	0.12	280	70	14	15	< 30	< 1	85	300	85	120	25	165	<0.05	13.22	100.89
59604	61.10	16.70	5.63	3.95	0.57	2.17	3.60	0.74	0.13	0.20	530	120	20	18	< 30	1	25	475	15	130	15	105	<0.05	5.88	100.69
59605	59.16	14.91	5.48	4.19	1.31	1.37	3.60	0.77	0.10	0.24	550	90	28	20	< 30	1	10	350	35	145	10	60	<0.05	7.47	98.60
59606	41.48	17.17	3.97	15.43	0.32	3.45	3.26	0.68	0.17	0.20	500	100	20	20	< 30	1	55	155	30	155	10	110	<0.05	14.67	100.81
59607	58.54	21.48	3.81	1.14	0.96	0.58	6.06	1.04	0.01	0.28	720	140	22	27	< 30	3	75	300	160	235	45	1420	<0.05	4.04	97.95
59608	51.12	19.27	10.53	1.51	2.60	0.29	4.78	0.87	0.03	0.14	540	260	22	23	< 30	3	40	215	185	115	25	2555	<0.05	6.40	97.52
59609	56.81	16.14	9.75	1.86	2.67	0.24	3.74	0.74	0.03	0.14	520	100	20	19	< 30	2	45	340	120	135	40	2995	<0.05	5.51	97.63
59610	50.17	17.56	7.70	4.96	2.89	0.28	4.66	0.84	0.04	0.24	760	110	18	25	< 30	3	10	245	175	205	50	2535	<0.05	9.39	98.73
59611	80.72	1.47	7.87	1.74	1.25	0.26	0.28	0.05	0.07	0.02	60	10	12	2	< 30	1	< 5	675	20	25	< 5	165	<0.05	4.66	98.39
59612	57.70	1.26	20.64	5.13	1.81	0.01	0.02	0.06	0.59	0.06	20	20	6	4	< 30	< 1	70	450	40	20	15	85	<0.05	12.58	99.88
59613	58.24	15.23	4.79	5.71	0.89	3.17	2.96	0.64	0.12	0.20	430	110	16	17	< 30	1	15	225	15	140	10	80	<0.05	7.56	99.51
59614	71.60	6.36	12.11	3.12	1.52	0.20	0.28	0.26	0.10	0.08	60	40	12	7	< 30	< 1	55	290	20	60	15	250	<0.05	5.04	100.67
59615	59.70	19.52	3.73	2.96	0.85	1.95	4.78	0.80	0.07	0.22	660	150	12	21	< 30	1	60	245	20	155	10	60	<0.05	5.84	100.41
59616	53.65	21.68	3.26	3.03	0.98	2.69	5.24	0.75	0.05	0.12	760	120	16	24	< 30	2	< 5	295	45	180	10	80	<0.05	6.22	97.67
59617	57.08	8.21	24.56	0.35	1.72	0.15	0.34	0.39	0.08	0.16	60	90	18	10	< 30	< 1	< 5	275	140	70	20	760	<0.05	5.45	98.47
59618	67.77	2.54	23.10	0.16	0.51	0.03	0.06	0.10	0.10	0.10	< 10	30	10	3	< 30	< 1	< 5	595	155	55	20	420	<0.05	3.59	98.06
59619	49.57	18.56	7.36	5.61	2.36	0.41	5.20	0.82	0.06	0.14	590	170	22	21	< 30	2	85	220	75	175	25	875	<0.05	10.19	100.27
59620	50.42	18.33	7.03	3.82	2.52	0.38	5.40	0.75	0.04	0.20	720	140	16	20	< 30	3	75	185	190	145	30	900	<0.05	9.01	97.89
59621	84.31	1.96	3.67	3.46	1.33	0.09	0.38	0.04	0.04	0.04	50	< 10	2	2	< 30	< 1	20	610	25	35	5	30	<0.05	4.36	99.67
59622	48.51	11.14	26.08	1.72	4.54	0.04	0.12	0.52	0.07	0.14	30	80	14	15	< 30	< 1	40	220	15	110	20	385	<0.05	7.70	100.61
59623	38.91	9.20	11.11	15.62	3.73	0.96	0.56	0.44	0.42	0.08	110	50	12	13	< 30	< 1	70	200	40	105	15	75	<0.05	19.48	100.51
59624	59.76	16.70	10.67	2.23	0.59	2.22	1.32	0.68	0.39	0.14	290	90	20	20	< 30	< 1	55	550	45	150	25	75	<0.05	5.30	100.01
59625	41.28	10.70	6.80	14.98	3.94	1.74	0.92	0.45	0.25	0.10	190	70	12	14	< 30	< 1	30	250	30	110	20	15	<0.05	19.58	100.73
59626	56.36	10.86	6.63	10.79	0.31	1.60	0.96	0.44	0.29	0.12	200	80	20	13	< 30	< 1	30	295	15	110	15	40	<0.05	10.01	98.36
59627	60.31	16.22	5.45	4.78	1.40	2.30	1.62	0.69	0.09	0.16	370	120	18	16	< 30	< 1	35	350	35	130	10	45	<0.05	7.61	100.63
59628	59.37	16.86	6.22	5.29	0.22	2.95	1.64	0.67	0.12	0.14	380	100	14	18	< 30	< 1	35	205	50	130	15	70	<0.05	6.89	100.37
59629	28.01	9.29	3.73	29.74	0.77	1.54	0.86	0.32	0.23	0.10	420	70	6	10	< 30	< 1	25	85	20	75	5	50	<0.05	26.31	100.90
59630	78.95	4.39	9.00	1.67	1.09	0.16	0.04	0.12	0.04	0.06	50	40	10	5	< 30	< 1	35	925	170	55	20	980	<0.05	2.53	98.05
59631	66.56	16.08	5.41	0.25	2.06	1.18	2.80	0.51	0.04	0.12	540	120	10	20	< 30	< 1	15	335	< 5	140	20	65	<0.05	2.99	98.00
59632	61.80	10.26	14.37	0.50	5.27	0.51	0.20	0.98	0.08	0.10	60	90	22	29	< 30	< 1	75	315	< 5	215	40	140	<0.05	4.35	98.43
59633	49.79	13.04	14.20	4.16	6.71	1.23	0.48	1.29	0.13	0.18	90	60	40	43	< 30	< 1	45	230	35	295	45	130	<0.05	8.82	100.00
59634	46.51	14.25	10.40	7.33	3.85	1.11	1.80	0.73	0.14	0.08	170	90	12	23	< 30	1	55	265	15	145	20	90	<0.05	11.76	97.98
59635	54.95	3.79	15.12	9.03	2.93	0.08	0.14	0.16	0.32	0.12	20	30	12	6	< 30	< 1	40	275	35	55	10	190	<0.05	11.07	97.70
59636	54.53	13.82	7.23	6.48	2.26	1.26	1.74	0.83	0.12	0.42	270	80	32	24	< 30	< 1	80	615	55	155	45	120	<0.05	8.94	97.64

Raj Sood

BONHOMME

ATTN: L. BONHOMME

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REPORT No. : M5619

Page No. : 2 of 3

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Date : AUG-31-1995

5W-3402-RG1

I.C.A.P. TOTAL OXIDE ANALYSIS

Lithium Metaborate Fusion

SAMPLE #	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	TiO2 %	MnO %	P2O5 %	Ba ppm	Zr ppm	Y ppm	Sc ppm	Nb ppm	Be ppm	Ni ppm	Cr ppm	Cu ppm	V ppm	Co ppm	Zn ppm	Rb %	LOI %	TOTAL %
59637	44.62	17.97	6.36	11.92	0.29	2.43	1.78	0.71	0.16	0.22	330	70	28	48	< 30	< 1	220	290	110	255	60	100	< 0.05	11.59	98.05
59638	57.60	8.67	23.40	0.97	1.60	0.33	0.14	0.35	0.20	0.08	50	70	16	17	< 30	< 1	245	155	115	125	55	180	< 0.05	4.90	98.24
59639	62.58	18.42	8.92	0.52	0.88	2.37	1.64	0.69	0.16	0.16	360	100	16	27	< 30	< 1	95	600	55	200	20	110	< 0.05	3.94	100.28
59640	61.45	17.93	8.32	0.58	0.28	2.79	1.42	0.68	0.22	0.16	340	110	22	27	< 30	< 1	10	350	45	180	30	95	< 0.05	4.04	97.87
59642	52.37	13.58	10.01	6.00	2.57	1.54	0.84	0.50	0.22	0.10	170	80	10	21	< 30	< 1	20	185	45	140	20	90	< 0.05	9.82	97.55
59643	55.95	11.64	9.92	7.42	2.39	1.52	0.58	0.48	0.14	0.10	130	90	20	22	< 30	< 1	50	365	45	125	30	110	< 0.05	10.25	100.39
59644	56.59	18.84	4.96	4.20	1.26	2.34	1.92	0.69	0.08	0.16	420	120	20	22	< 30	< 1	5	255	60	160	20	95	< 0.05	6.72	97.75
59645	56.65	2.41	16.81	9.67	2.20	0.19	0.10	0.10	0.65	< 0.02	40	20	6	9	< 30	< 1	35	415	255	60	30	1230	< 0.05	9.01	97.80
59646	53.02	15.24	6.83	8.36	1.41	2.44	1.62	0.46	0.15	0.12	250	100	12	19	< 30	< 1	15	180	50	135	15	170	< 0.05	9.05	98.72
59647	58.55	15.25	5.87	6.26	1.56	1.48	1.54	0.49	0.11	0.12	260	100	10	21	< 30	1	< 5	100	110	115	20	315	< 0.05	6.66	97.89
59648	65.95	16.99	3.34	2.28	0.81	1.81	1.98	0.52	0.05	0.14	340	100	14	18	< 30	1	40	345	290	130	15	1350	< 0.05	3.75	97.61
59649	65.15	17.36	3.83	2.57	0.88	1.44	2.46	0.53	0.05	0.12	430	100	8	18	< 30	1	20	300	155	155	20	745	< 0.05	3.79	98.20
59650	55.35	2.08	23.80	0.87	2.28	0.14	0.14	0.08	0.35	0.04	50	40	12	3	< 30	< 1	30	380	50	55	15	355	< 0.05	12.47	97.59
59651	40.15	11.60	10.83	9.82	8.12	1.10	0.36	0.72	0.18	0.08	40	40	16	37	< 30	1	240	635	70	215	45	90	< 0.05	17.02	99.97
59652	77.88	2.37	12.15	0.62	0.68	0.25	0.22	0.09	0.06	0.06	40	30	14	5	< 30	< 1	25	1070	85	60	20	915	< 0.05	3.61	98.00
59653	39.61	13.24	10.65	8.80	6.91	1.51	0.26	0.75	0.14	0.10	40	< 10	20	38	< 30	1	170	270	85	225	40	125	< 0.05	15.54	97.52
59654	41.65	14.26	11.67	10.88	4.19	1.57	0.24	0.83	0.21	0.10	40	40	18	42	< 30	< 1	160	280	90	260	50	95	< 0.05	11.96	97.56
59655	68.79	1.32	22.23	1.04	0.50	0.12	0.02	0.08	0.21	0.04	20	10	14	4	< 30	< 1	40	360	15	55	10	80	< 0.05	4.26	98.61
59656	72.17	1.63	20.08	0.16	0.43	0.02	0.02	0.06	0.08	0.04	20	20	10	4	< 30	< 1	70	780	40	80	15	240	< 0.05	3.75	98.44
59657	61.35	8.12	19.57	0.19	1.65	0.04	< 0.02	0.21	0.05	0.10	10	60	10	8	< 30	< 1	80	1130	205	95	35	1255	< 0.05	7.26	98.73
59658	67.06	1.05	24.28	0.20	0.48	0.02	< 0.02	0.05	0.10	0.10	20	30	14	4	< 30	< 1	< 5	560	40	40	10	300	< 0.05	4.95	98.20
59659	78.95	0.61	14.30	0.31	0.44	0.02	0.06	0.02	0.08	0.06	20	20	12	< 1	< 30	< 1	30	510	35	45	10	135	< 0.05	3.70	98.54
59660	62.55	14.78	4.69	3.26	1.36	1.63	2.92	0.62	0.13	0.24	330	110	18	20	< 30	2	10	470	30	135	10	195	< 0.05	5.62	97.79
59661	47.54	8.29	16.07	2.00	1.40	0.34	1.46	0.27	0.08	0.08	160	80	10	10	< 30	< 1	100	525	260	65	60	620	< 0.05	20.53	98.06
59662	45.83	20.12	6.01	6.03	2.44	1.92	4.28	0.87	0.17	0.20	490	150	24	30	< 30	2	75	300	35	190	15	80	< 0.05	10.22	98.10
59663	58.39	1.28	21.60	2.07	2.24	0.12	0.28	0.28	0.40	0.20	410	100	44	12	< 30	< 1	350	460	215	3040	20	105	< 0.05	11.78	98.64
59664	55.95	2.10	24.78	0.57	1.60	0.03	0.02	0.09	0.51	0.10	50	120	20	5	< 30	< 1	45	540	110	210	30	965	< 0.05	11.78	97.53
59665	61.26	0.60	18.20	3.87	2.33	0.02	0.04	0.03	0.23	0.02	30	20	10	2	< 30	< 1	15	885	45	45	15	170	< 0.05	11.64	98.24
59666	66.54	1.02	14.77	3.86	2.64	0.02	0.08	0.04	0.25	0.06	10	40	16	3	< 30	< 1	100	295	45	80	15	2090	< 0.05	8.37	97.64
59667	40.93	12.73	11.56	9.01	6.84	0.44	1.84	0.81	0.24	0.10	230	70	12	35	< 30	2	255	940	65	220	45	350	< 0.05	16.17	100.67
59668	76.95	2.08	11.08	1.71	1.32	0.08	0.10	0.09	0.21	0.04	30	30	10	5	< 30	< 1	20	455	60	55	5	230	< 0.05	3.85	97.51
59669	71.45	0.74	19.06	0.83	0.69	0.05	0.04	0.04	0.13	< 0.02	20	30	10	2	< 30	< 1	< 5	805	45	60	20	475	< 0.05	4.94	97.96
59670	54.41	15.43	13.92	0.17	5.67	2.42	0.10	1.22	0.09	0.04	80	110	30	42	< 30	< 1	130	235	95	305	40	140	< 0.05	4.63	98.09
59671	51.62	14.79	15.67	0.63	4.51	1.45	0.12	1.32	0.10	0.20	140	130	56	43	< 30	< 1	120	200	85	300	60	445	< 0.05	8.75	99.16
59672	44.65	14.42	9.60	6.87	2.41	0.37	4.00	2.21	0.23	0.32	310	70	28	21	< 30	2	170	290	40	315	55	465	< 0.05	12.56	97.62

Paul Saad

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Date : AUG-31-1995

5W-3402-RG1

I.C.A.P. TOTAL OXIDE ANALYSIS

Lithium MetaBorate Fusion

SAMPLE #	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	TiO2	MnO	P2O5	Ba	Zr	Y	Sc	Nb	Be	Mi	Cr	Cu	V	Co	Zn	Rb	LOI	TOTAL
	%	%	%	%	%	%	%	%	%	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	%
59673	48.99	13.38	11.27	7.52	5.07	2.80	0.90	1.09	0.18	0.12	160	90	28	31	< 30	< 1	40	190	40	270	40	125	<0.05	9.53	100.85
59674	69.32	13.26	4.55	2.50	0.96	3.54	2.46	0.28	0.08	0.06	480	360	74	6	< 30	2	40	420	15	95	5	65	<0.05	3.86	100.87
59675	71.85	13.12	1.91	1.67	0.53	2.55	4.72	0.10	0.04	0.04	680	140	80	2	< 30	3	< 5	705	10	30	5	75	<0.05	2.47	98.99
59676	74.93	13.03	1.57	1.44	0.22	2.91	4.74	0.06	0.04	0.04	760	120	72	< 1	< 30	2	25	655	5	15	< 5	70	<0.05	1.86	100.84
59677	68.98	11.60	3.46	3.58	0.55	3.49	2.36	0.19	0.06	0.06	390	290	68	3	< 30	2	15	600	5	40	< 5	120	<0.05	4.49	98.81
16839	71.64	2.21	18.92	0.47	0.11	0.35	0.30	0.08	0.04	0.06	60	30	10	2	< 30	< 1	35	260	15	80	5	235	<0.05	3.67	97.85
16841	69.46	1.73	20.37	0.22	0.23	0.17	0.18	0.06	0.14	0.12	30	30	12	2	< 30	< 1	10	210	100	85	15	475	<0.05	5.61	98.27
16842	52.57	12.39	8.87	6.06	3.63	0.20	2.92	0.49	0.10	0.10	310	150	16	11	< 30	1	30	220	105	90	20	555	<0.05	11.40	98.74
16843	53.59	20.45	11.61	0.68	0.74	0.41	5.46	0.81	0.03	0.24	610	160	28	18	< 30	2	40	260	210	170	60	1850	<0.05	5.29	99.31
16844	49.64	13.01	6.82	7.82	3.38	0.27	3.58	0.50	0.20	0.28	350	90	18	11	< 30	1	70	215	110	120	30	685	<0.05	12.25	97.75
16845	52.65	18.36	10.14	3.71	3.50	0.30	3.82	0.75	0.07	0.14	460	180	16	17	< 30	1	65	200	60	155	35	295	<0.05	7.14	100.60
16846	58.00	19.88	10.04	0.58	2.61	0.26	4.26	0.67	0.02	0.08	520	330	28	16	< 30	2	20	115	50	105	15	500	<0.05	4.24	100.64
16847	56.00	14.22	11.64	2.63	2.10	0.25	3.42	0.56	0.05	0.20	440	110	26	13	< 30	2	70	300	390	125	65	3030	<0.05	6.92	97.98
16848	59.39	16.29	6.47	4.65	1.38	2.37	2.70	0.79	0.09	0.26	400	220	22	15	< 30	1	30	320	90	140	20	270	<0.05	6.28	100.68
16849	56.10	1.50	14.83	10.15	2.53	0.21	0.22	0.07	0.27	0.14	50	10	4	2	< 30	< 1	105	120	50	45	30	80	<0.05	14.70	100.72
16850	66.61	0.61	13.74	4.22	1.66	0.08	0.04	0.02	0.32	0.04	10	10	< 2	< 1	< 30	< 1	30	385	15	40	10	120	<0.05	10.21	97.56

Raj Saad

**Petrographic Report for Lionel Bonhomme
Timmins Samples
by Wallace H. MacLean
October 7, 1995**

This group of 13 samples was received in September. Their Numbers are:

16833*	26733	59601	* = polished-thin section.
16837	26744	59625	
16838	26746	59641*	
16840*	26749	59672	
	26750		

General Observations.

All of the samples are very rich in carbonates, ranging up to ~60 %. Carbonate is a matrix of all the rocks, and is also common as cross-cutting veins, amygdule fillings and as irregular masses. It is almost always coarse-grained, moreso than the silicate components. This very intense carbonitization has often obliterated primary textures, so that the original identities of many samples are not well known.

Rock Types. The majority of the samples appear to be sedimentary rocks or reworked tuffs - mainly felsic. There are at least a couple of mafic lavas in the group, whose identity relies largely on the presence of substantial (1 to 3 %) leucoxene (TiO₂), lack of quartz phenocrysts and matrix, and presence of "ghost" plagioclase phenocrysts in one sample. In addition to carbonate, the felsic samples have a matrix of fine grained quartz and abundant sericite. Other minerals are abundant in a few samples: Berlin Blue chlorite is widespread in a few samples, and minor epidote is present in a few.

Shearing. Most, if not all, samples are sheared, some very strongly. Sericite is prominent along all shears, and these cut all carbonate textures except some large carbonate veins. The carbonitization was active early and continued to some extent after the shearing event.

Amygdules. The amygdules are round to oval shaped grains of polygranular quartz±carbonate in all samples but one which is filled with a Berlin Blue chlorite. In many samples, they are definitely amygdules in volcanic rocks or rock fragments, but in a few others they appear to be detrital grains in sand- and siltstones. That is, they may have weathered out of the rocks without losing shape. Some amygdules are in definite basaltic rocks, and others in felsic ones. I recognized a quartz phenocrvsts in only one sample, and that one is a sandstone or reworked felsic crystal tuff.

Mineralization and Alteration. Three polished thin-sections were cut to look at ore minerals. In #16840 there is about 25% sphalerite, 10% pyrite, and traces of chalcopryrite and pyrrhotite. Sphalerite was also identified in #16833, and small grains of chalcopryrite in in pyritic in #59672. In a couple of samples, Berlin Blue chlorite is abundant, and this type of chlorite is very commonly associated with massive sulphide mineralization. Sericite and carbonate are too widespread to associate directly to mineralization, but a lot of the sericite was formed prior to the shearing.

Conclusions. A few of the samples are basalts, and the rest are felsic volcanic-derived sediments, All of them have been heavily carbonatized. They are moderately to strongly sheared and are heavily sericitized. A few samples are chloritized and mineralized, and

this is good evidence that a metal-generating hydrothermal system was active in the vicinity of these rocks.

Description of Samples.

Magnifications are for the photographic print.

#16833 Very Carbonitized Rock with Sphalerite and Pyrite

- 50% carbonate, and zones very rich in sericite and containing some chlorite and ~5% fine grained quartz. There is no evidence of phenocrysts, and no feldspar, but there are numerous round amygdules of Berlin Blue chlorite, and this chlorite is in the matrix as well.
- the carbonate matrix and the chlorite amygdules are cut by many shears lined with sericite.
- ~3% fine grained sphalerite and 5% pyrite grains in the matrix.
- The lack of leucoxene (TiO₂) indicates a felsic volcanic source.
- **Photo #1.** Amygdules of Berlin Blue chlorite in a matrix of carbonate and some sericite; late shearing, with concentration of sericitic along shear planes. X40.

#18637 Very Carbonitized Probable Basic Rock

- 70% carbonate as matrix and prominent veins.
- The 30% silicate portion is composed of fine grained quartz and albite, and 3-4% leucoxene, the latter suggesting it was a basaltic rock.
- An early set of quartz-rich veins contain abundant albite.
- Sericite is abundant along the many shears.
- **Photo #2** Vein of Carb with intricately twinned carbonate grains. 40X.
- **Photo #3 & #4.** Chlorite and carbonate cut by sericitic shears. 40X.

#16838 Very Altered Silicic Rock

- A very fine grained quartz-rich rock, with many patches of Berlin Blue chlorite, sericite and carbonate. It is much less carbonated than the previous samples. Also, there is no evidence of shearing here.
- Qz = 65%, carbonate = 15%, sericite and chlorite ~10% each.
- A quartzose sediment or reworked felsic tuff.
- **Photo #5.** Large sericite grain in quartzose matrix. 175X.
- **Photo #6.** Berlin Blue chlorite and carbonate in quartzose matrix. 40X.

#16840 Mineralized Silicic Sediment or Reworked Tuff

- The matrix is fine-grained quartz and other minerals: - minor sericite, chlorite, epidote, carbonate.
- 25% sphalerite, 10% pyrite, 65% siliceous matrix. Traces of chalcopyrite and pyrrhotite.
- **Photo #7.** Sphalerite + Pyrite + Silicates. Reflected light. 275X.
- **Photo #8.** Sphalerite + Silicates - the yellow-orange translucent mineral is sphalerite. transmitted light. 274X.

#26733 Carbonated Quartz-Sericite Rock

- Carbonate = 35%, quartz = 30%, sericite = 30%, other = 5%. Minor pyrite and leucoxene.
- *Photo #9.* General view of wide sericitic-quartz zones, cut by narrow irregular veins of brown carbonate. 40X.
- *Photo #10.* Details of coarse carbonate and fine grained sericite-quartz zones in above photo. 175X.

#26744 Very Carbonated Rock (Volcanic ?) with Quartz Amygdules

- 40% carbonate, 30% sericite, 25% quartz, 5% Berlin Blue chlorite.
- Numerous quartz amygdules, indicating a volcanic rock precursor.
- The sericitization appears to be late and associated with the shearing.
- *Photo #11.* Sericitic shears cutting coarse brown carbonate and quartz matrix. 40X.
- *Photo #12.* Quartz amygdale in Carb-Qz-Ser matrix. 40X.

#26746 Altered Basis to Intermediate Rock

- Fine grained matrix enclosing "ghost" plagioclase phenocrysts.
- Matrix is 60% quartz, 20% carbonate, 10% sericite, 5% Berlin Blue chlorite, 3% leucoxene.
- The plagioclase phenocrysts and relatively abundant leucoxene indicate at least an intermediate rock.
- *Photo #13.* Ghost plagioclase phenocrysts in fine grained matrix. 40X.

#26749 Reworked Felsic Volcanic - Sedimentary Rock

- There are grains of single-crystal quartz that are probably phenocryst fragments, - - 5-8%.
- The matrix is medium grained and consists of 40% quartz, 35% carbonate, 20% sericite, 5% other.
- It looks like a reworked rhyolite tuff.
- *Photo #14a.* Single-crystal quartz grains that appear to be fragments of quartz phenocrysts, in a Qz-Carb-Ser matrix. 40X.

#26750 Reworked Felsic Volcanic - Sedimentary Rock - Carbonated

- The silicate portion of this rock is massive with a fine grained equigranular texture of quartz, sericite and carbonate. It also contains well formed quartz amygdules, and because of these, it appears to be a rhyolite.
- There are no phenocrysts, and no feldspar was seen.
- 50% carbonate as veins and matrix.
- *Photo #15a.* Small quartz amygdules in fine grained quartz-rich groundmass containing sericite and carbonate. 40X.
- *Photo #16a.* Enlargement of groundmass of #15a: Qz+Carb+Scr. 175X.

#59601 Reworked Felsic Volcanic - Sedimentary Rock - Carbonated

- Quartz-sericite matrix, much carbonate,

- Round and oval shaped quartz amygdule grains that appear unrelated to the matrix: the rock has a detrital texture. The amygdules may have remained intact as a postulated rhyolite disintegrated.
- **Photo #17a (also #18 on negative).** Rock of fine grained sericite + quartz + carbonate with oval shaped grain of what appear to be a quartz amygdules. Probably a sediment derived from an amygdular rhyolite. 40X.

#59625 Carbonate-Rich Sedimentary Rock

- 60% carbonate as coarse grains in matrix and as cross-cutting veins.
- The remainder is 25% sericite and 15% quartz.
- The rock is sheared, with sericite concentrated close to the shear planes.
- The sample contains a layer or large 'pebble' of fine grained quartzite.
- **Photo #19.** Carbonate matrix of rock cut by shears along which sericite and quartz are concentrated. 40X.

#59641 Drill Core of Carbonate-Rich Rock -with Sharp Colour Change

- Polished thin-section.
- The core is divided sharply into a dark and a light zone.
- The light zone is a heavily carbonated rock cut by shears and zones of quartz-sericite. This part of the sample also contains pyrite grains with small inclusions of chalcopyrite. The carbonate is much coarser grained than the silicate part of the rock.
- **Photo #20.** The light zone: shears with sericite and quartz cutting through coarse carbonate. 40X.
- The dark zone is characterized by altered carbonate grains containing a lot of fine grained opaque mineral, which in reflected light is identified as iron oxide, - hematite or goethite. This was an oxidation process which apparently altered and degraded an Fe-bearing carbonate and pyrite of the light zone rock to this dark and porous material. The alteration boundary is very sharp. It is caused by oxidation, and could be due to weathering or circulation of other oxygenated water. It is not likely to have any relation to the mineralization.
- **Photo #21.** Boundary between the carbonated light zone and the oxidized hematite bearing dark zone. Note that the sericite in the shears becomes rust stained in the dark zone. 40X.
- **Photo #24.** Polished thin-section: reflected light. Light zone: pyrite grains containing inclusions of chalcopyrite. 63X.

#59672 Amygdaloidal Basalt

- Fine grained basaltic rock containing numerous carbonate-quartz amygdules in a matrix that is carbonated and sericitic.
- There is ~2% leucoxene (TiO₂).
- Shears are accentuated with sericite, - 10% of rock.
- About 25% carbonate in rock.
- **Photo #22.** Broken carbonate-quartz amygdale in carbonated and sericitized rock groundmass of basaltic rock. 40X.
- **Photo #23.** Detail, illustrating shears and intensity of sericitization in the basalt. 175X.



Ministry of
Northern Development
and Mines

Ontario

Report of Work Conducted After Recording Claim

Mining Act

TEL: (705) 360 2001

P. 002

Transaction Number

W9660.00409

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P2E 8A5, telephone (705) 670-7264.

- Instructions:
- Please type or print and submit in duplicate.
 - Refer to the Mining Act and Regulations for Recorder.
 - A separate copy of this form must be completed.
 - Technical reports and maps must accompany.
 - A sketch, showing the claims the work is a

2.16712



42A05NE0091 2.16712 CARSCALLEN

900

Recorded Holder(s) BHP MINERALS CANADA LIMITED		Client No. 108137
Address 33 YONGE STREET, SUITE 610, TORONTO, ONTARIO M5E 1G4		Telephone No. (416) 368-3884
Mining Division PORCUPINE	Township/Area CARSCALLEN TWP.	M or G Plan No. G-3040
Dates Work Performed From: JULY, 1995		To: OCTOBER, 1995

Work Performed (Check One Work Group Only)

Work Group	Type	
Geotechnical Survey		RECEIVED AUG 09 1996 MINING LANDS BRANCH
Physical Work, Including Drilling		
Rehabilitation		
Other Authorized Work	COMPILATION MAPS, AIRBORNE MAG COMPILATION / PETROGRAPHIC WORK	
Assays	WHOLE ROCK AND GEOCHEMICAL ASSAYS OF DRILL CORE FROM LIBRARY	
Assignment from Reserve		

Total Assessment Work Claimed on the Attached Statement of Costs \$ 4806.00

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
GEODIGITAL MAPPING SYSTEMS	P.O. BOX 983 TIMMINS, ONT. P4N 7R1
WALLACE MACCLEAN	817 SHERBROOKE ST. W., MONTREAL, QUE. H3A 2X6
SWASTIKA LABS	P.O. BOX 10 SWASTIKA, ONT. POK 1T0

Attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date July 18 1996	Recorded Holder or Agent (Signature) A Waldie
--	----------------------	--

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.		
Name and Address of Person Certifying ANDREA WALDIE BHP MINERALS CANADA LTD. 610-33 YONGE ST. TORONTO, ONTARIO M5E 1G4		
Telephone No. (416) 368-3884	Date June 10 1996	Certified By (Signature) A Waldie

For Office Use Only

Total Value Cr. Recorded \$ 4806.00	Date Recorded	Mining Recorder [Signature]	RECEIVED JUN 11 1996 29:45 (M) [Signature] PORCUPINE MINING DIVISION
Date Approved Sept 9 1996	Date Approved	[Signature]	
Date Notice for Amendments Sent			

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
1	1189842	10
	1189844	15
2.13712		
RECEIVED AUG 09 1996 MINING LANDS BRANCH		
Total Number of Claims		2

Value of Assessment Work Done on this Claim	Value Applied to this Claim
604	4008
4202	0
Total Value Work Done	
4806	Total Value Work Applied
	4008

Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
0	0
3404	798
Total Assigned From	
3404	Total Reserve
	798

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

- Credits are to be cut back starting with the claim listed last, working backwards.
- Credits are to be cut back equally over all claims contained in this report of work.
- Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.	Signature	Date
---	-----------	------



Statement of Costs
for Assessment Credit

État des coûts aux fins
du crédit d'évaluation

Mining Act/Loi sur les mines

Transaction No./N° de transaction

W 9860.00904

2.16712

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

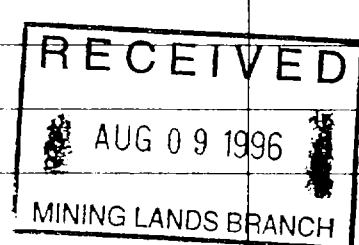
1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type - compilation maps	748	
	- petrographic work	830	
	- administration	460	
	- assays	2768	4,806
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs			4,806

2. Indirect Costs/Coûts indirects

** Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work.
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type		
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			
Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs)		Valeur totale du crédit d'évaluation (Total des coûts directs et Indirects admissibles)	



Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note: Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
× 0.50 =	

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

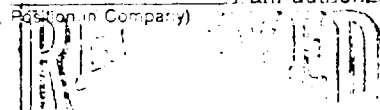
Valeur totale du crédit d'évaluation	Evaluation totale demandée
× 0,50 =	

Certification Verifying Statement of Costs

I hereby certify:
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as A. Wickie I am authorized
(Recorded Holder, Agent, Position in Company)

to make this certification



Attestation de l'état des coûts

J'atteste par la présente :
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de _____ je suis autorisé
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature A. Wickie Date June 10, 1996

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines



October 18, 1996

Gary White
Mining Recorder
60 Wilson Avenue, 1st Floor
Timmins, ON
P4N 2S7

Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (705) 670-5853
Fax: (705) 670-5863

Dear Sir or Madam:

Submission Number: 2.16712

Subject: Transaction Number(s): W9660.00404

After reviewing the Work Report(s) we have prepared this letter and the attached summary, which lists the results of our review. Requirements of the Assessment Work Regulation may not have been fully met. Please examine the summary to determine the next course of action concerning the identified Work Report(s).

NOTE: The 90 day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, is no longer in effect for this submission.

PLEASE NOTE ANY REQUESTED REVISIONS MUST BE SUBMITTED IN DUPLICATE.

If the anniversary dates for the mining claims affected by this correspondence have not passed, a number of options are available. Please contact the Mining Recorder to discuss these options.

If you have any questions regarding this correspondence, please contact Steve Beneteau at (705)670-5855.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Ron C. Gashinski".

ORIGINAL SIGNED BY
Ron C. Gashinski
Senior Manager, Mining Lands Section
Mines and Minerals Division

Work Report Assessment Results

Submission Number: 2.16712

Date Correspondence Sent: October 18, 1996

Assessor: Steve Beneteau

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9660.00404	1189844	CARSCALLEN	Approval After Notice	October 10, 1996

Section:

17 Assays ASSAY

Credits have been approved as outlined in the Notice of Reduction dated August 26, 1996. Since no assessment credit has been given to the compilation report, it is being returned to you.

Correspondence to:

Mining Recorder
Timmins, ON

Resident Geologist
Timmins, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):

BHP MINERALS CANADA LTD.
TORONTO, ONTARIO

Distribution of Assessment Work Credit

The following credit distribution reflects the value of assessment work performed on the mining land(s). Please contact the Mining Recorder to determine if this affects the status of your claims.

Date: October 18, 1996

Submission Number: 2.16712

Transaction Number: W9660.00404

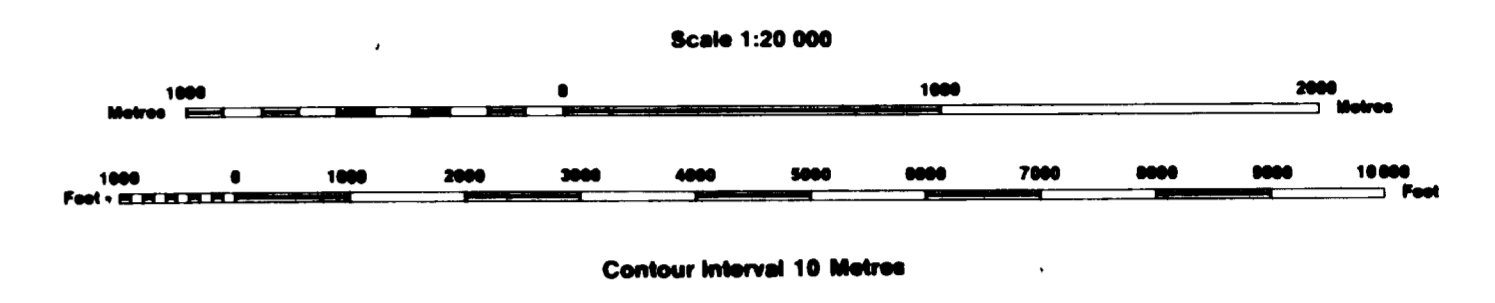
<u>Claim Number</u>	<u>Value Of Work Performed</u>
1189844	4,058.00
Total: \$	4,058.00

INDEX TO LAND DISPOSITION

PLAN
 G-3040
 TOWNSHIP

CARSCALLLEN

M.N.R. ADMINISTRATIVE DISTRICT
 TIMMINS
 MINING DIVISION
 PORCUPINE
 LAND TITLES/REGISTRY DIVISION
 COCHRANE



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2.16712

AREAS WITHDRAWN FROM DISPOSITION

MRO - Mining Rights Only
 SRO - Surface Rights Only
 M+S - Mining and Surface Rights

Description	Order No.	Date	Disposition	File
AGGREGATE PERMIT - NOTICE RECEIVED JUNE 16, 1993				

SYMBOLS

Boundary	.....
Township, Meridian, Baseline	.....
Road allowance: surveyed	.....
shoreline	.....
Lot/Concession: surveyed	.....
unsurveyed	.....
Parcel: surveyed	.....
unsurveyed	.....
Right-of-way: road	.....
railway	.....
utility	.....
Reservation	.....
Cliff, Pit, Pile	.....
Contour	.....
Interpolated	.....
Approximate	.....
Depression	.....
Control point (horizontal)	.....
Flooded land	.....
Mine head frame	.....
Pipeline (above ground)	.....
Railway: single track	.....
double track	.....
abandoned	.....
Road: highway, county, township	.....
access	.....
trail, bush	.....
Shoreline (original)	.....
Transmission line	.....
Wooded area	.....

ISSUED

AUG 1996
 MINING DIVISION

- ① THIS TWP IS SUBJECT TO FOREST ACT. FURTHER INFORMATION AVAILABLE ON FILE.
- ② APPLICATION PENDING UNDER THE PUBLIC LANDS ACT. SNOWMOBILE TRAILS - NOTICE RECEIVED 92-DEC-21.
- ③ THIS TWP SUBJECT TO FOREST ACTIVITY IN 1995-96. FURTHER INFORMATION AVAILABLE ON FILE.

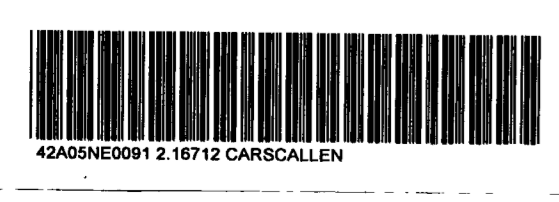
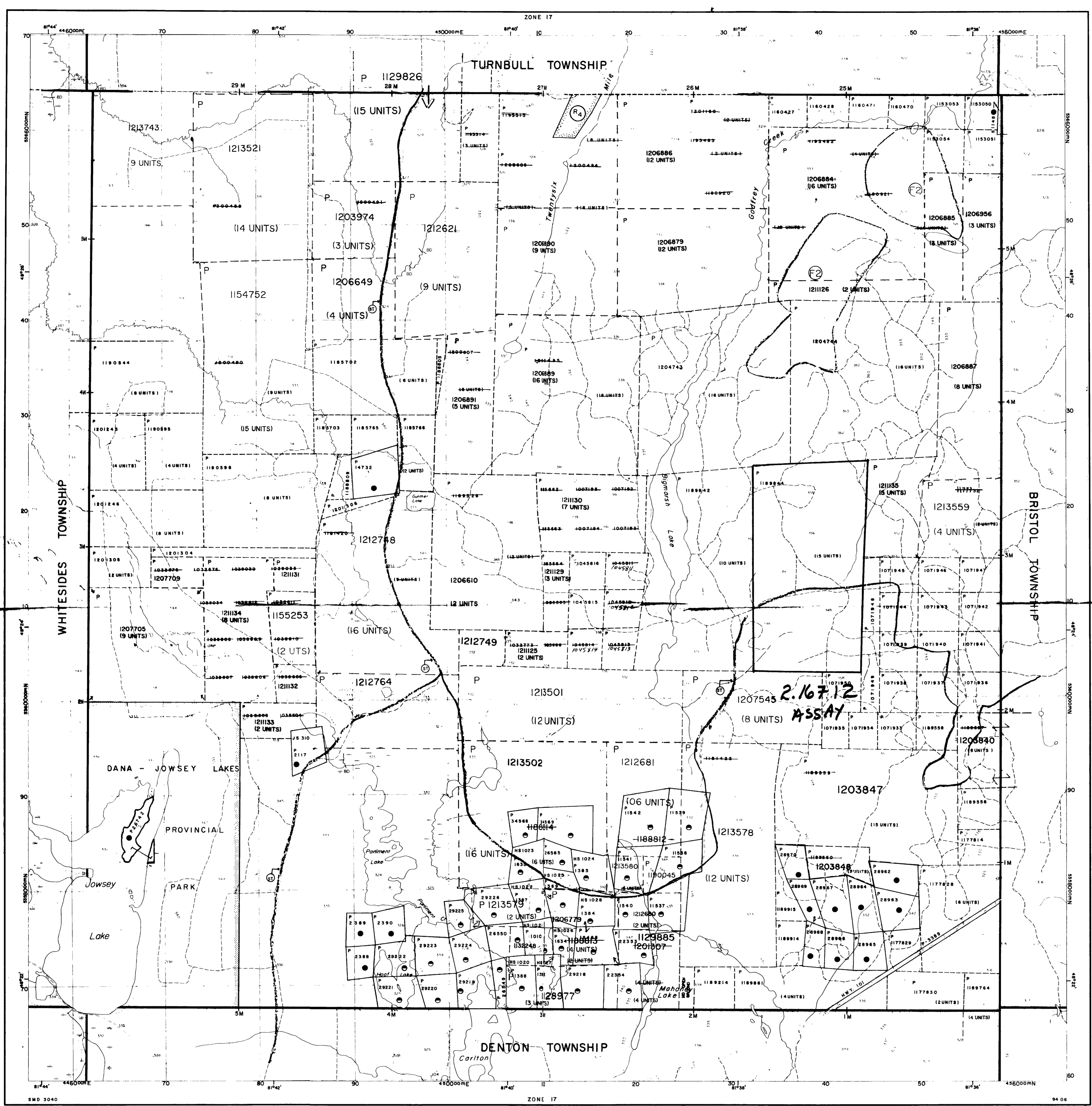
DISPOSITION OF CROWN LANDS

Patent	.....
Surface & Mining Rights	.....
Surface Rights Only	.....
Mining Rights Only	.....
Lease	.....
Surface & Mining Rights	.....
Surface Rights Only	.....
Mining Rights Only	.....
Licensing of Occupation	.....
Order-in-Council	.....
Cancelled	.....
Reservation	.....
Sand & Gravel	.....

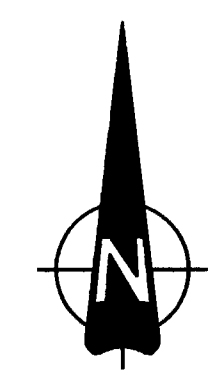
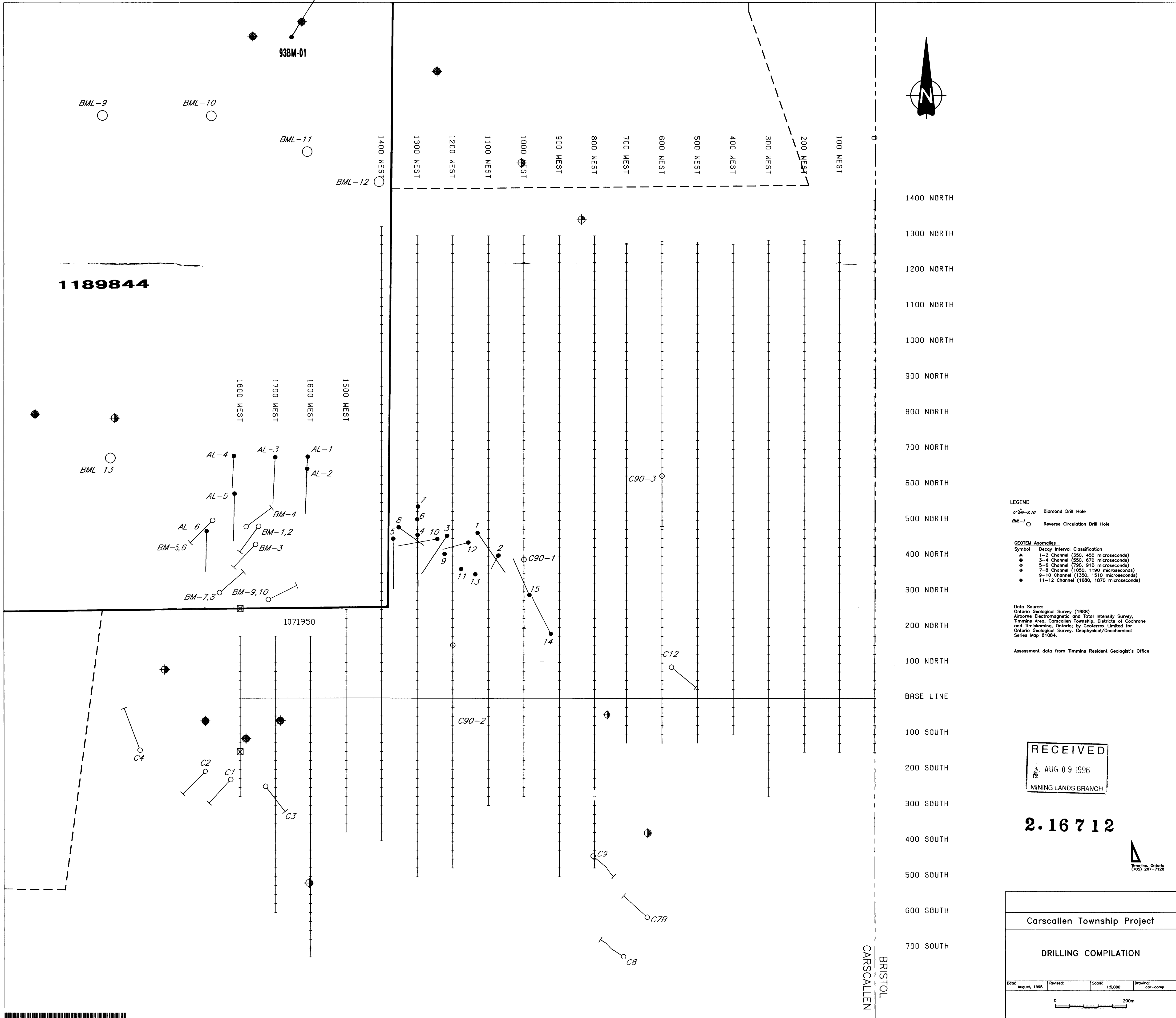
ACTIVATED AUG. 17/94, BY: D.C.
 CHECKED BY:

Map base and land disposition drafting by Surveys and Mapping Branch, Ministry of Natural Resources.

The disposition of land, location of lot fabric and parcel boundaries on this index was compiled for administrative purposes only.



G-3040 CARSCALLLEN TWP G-3040



1400 NORTH
 1300 NORTH
 1200 NORTH
 1100 NORTH
 1000 NORTH
 900 NORTH
 800 NORTH
 700 NORTH
 600 NORTH
 500 NORTH
 400 NORTH
 300 NORTH
 200 NORTH
 100 NORTH
 BASE LINE
 100 SOUTH
 200 SOUTH
 300 SOUTH
 400 SOUTH
 500 SOUTH
 600 SOUTH
 700 SOUTH

LEGEND
 ◆ BM-9,10 Diamond Drill Hole
 ○ BML-1 Reverse Circulation Drill Hole

GEOTEM Anomalies
 Symbol Decay Interval Classification
 * 1-2 Channel (350, 450 microseconds)
 ◆ 3-4 Channel (550, 670 microseconds)
 ◆ 5-6 Channel (790, 910 microseconds)
 ◆ 7-8 Channel (1050, 1190 microseconds)
 ◆ 9-10 Channel (1350, 1510 microseconds)
 ◆ 11-12 Channel (1680, 1870 microseconds)

Data Source:
 Ontario Geological Survey (1988)
 Airborne Electromagnetic and Total Intensity Survey,
 Timmins Area, Carscallen Township, Districts of Cochrane
 and Timiskaming, Ontario; by Geotrex Limited for
 Ontario Geological Survey, Geophysical/Geochemical
 Series Map 81084.

Assessment data from Timmins Resident Geologist's Office

RECEIVED
 AUG 09 1996
 MINING LANDS BRANCH

2.16712



Carscallen Township Project			
DRILLING COMPILATION			
Date: August, 1995	Revised:	Scale: 1:5,000	Drawing: car-comp
0 200m			

