Ontario

y of
...ern Development
and Mines

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

52011SW0027 2.14173 MCVICAR LAKE

010

W9130-065

Mining Act

in the "Expend. Days Cr." columns.
– Do not use shaded areas below.

2.14173

Type of Survey(s)	Township or Area
Drill Core Assays	McVicar Lake Area G2121
Claim Holder(s)	**Prospector's Licence No.**
BHP-Utah Mines Ltd.	T 793
Address	
25 Adelaide St. East, Suite 900, Toronto, Ontario M5C 1Y2 416-368-3884	
Survey Company	**Date of Survey (from & to)** / **Total Miles of line Cut**
Accurassay Laboratories Ltd.	17 Day | 01 Mo. | 91 Yr. | 08 Day | 02 Mo. | 91 Yr. / N/A
Name and Address of Author (of Geo-Technical report)	

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical	
	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical	
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
KRL	911381	20	PA	914872	40
	911382	20		914879	40
	911384	20		914978	40
	911385	20		914979	40
				914984	40
				914988	23
				1006251	60
				1006252	60

RECEIVED
1991 MAY 21 P2:48
MINING LANDS SECTION
MINING RECORDER'S ORDER
DIVISION

Expenditures (excludes power stripping)

Type of Work Performed: Drill Core Assays SECTION 77-19

Performed on Claim(s): (see attached page)

Calculation of Expenditure Days Credits

Total Expenditures			=	Total Days Credits
$ 6,348.32	÷	15	=	423

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work: 12

For Office Use Only		
Total Days Cr. Recorded: 423	Date Recorded: MAY 21, 1991	Mining Recorder: K. Mayhew
Date Approved as Recorded: June 25/91		Branch Director: Ron C Gashinski

Date	Recorded Holder or Agent (Signature)
May 14, 1991	Craig Waldie

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying

Craig Waldie, BHP-Utah Mines Ltd., [illegible]
Toronto, Ontario M5C 1Y2

2.14173

84503233 BHP-UTAH MINES LTD. 25 ADELAIDE STREET, EAST TORONTO, ONTARIO M5C 1Y2

VENDOR NO. 804649

PAGE NO. 1

VOUCHER NO	INVOICE NO.	INVOICE DATE DAY YEAR	INVOICE AMOUNT	DISCOUNT	NET AMOUNT
45050693	791434	02 15 91	2,912.01	.00	2,912.01
45050694	791425	01 30 91	3,427.75	.00	3,427.75
45050695	791446	02 26 91	8.56	.00	8.56
		TOTALS	6,348.32	.00	******6,348.32

INQUIRIES: EASTERN EXPLORATION (416)-368-3884
25 ADELAIDE ST,EAST,SUITE 900 TORONTO ONT M5C 1A2

84503233

BHP-UTAH MINES LTD.
25 ADELAIDE STREET, EAST • TORONTO, ONTARIO M5C 1Y2

84503233

CANADIAN IMPERIAL BANK OF COMMERCE
400 BURRARD ST.
VANCOUVER 2, B.C. V6C 3A6

10
10

CO. NO.	VENDOR NO.	DATE OF CHECK	DOLLARS	CENTS
0845	804649	03/08/91	$ ******6,348.	32

PAY

TO THE ORDER OF

****
ACCURASSAY LABORATORIES LTD.
BOX 426 3 INDUSTRIAL DR.
KIRKLAND LAKE ONTARIO P2N 3J1

BHP-UTAH MINES LTD.
GENERAL ACCOUNT

NON NEGOTIABLE

⑈84503233⑈ ⑆00010⑈010⑆92⑈03117⑈

RECEIVED
91 MAY 21 P2:48

ACCURASSAY LABORATORIES LTD.
CHARTERED CHEMISTS, ASSAYERS, ANALYTICAL CONSULTANTS
Box 426, 3 Industrial Dr., Kirkland Lake
Ontario, Canada P2N 3J1
TEL.: (705) 567-3361 - FAX: (705) 567-8368

INVOICE

RECEIVED FEB 25 1991

791425

TO

Rod Thomas
BHP Utah Mines Ltd.
Suite 909, 25 Adelaide St. E.
TORONTO, ONTARIO
M5C 1H2

DATE	January 30, 1991
CUSTOMER ORDER N°	Project: 1446
WORK ORDER N°	Various
DATE SUBMITTED	

TERMS

net 30 days, 2.0% per month on overdue accounts.

QUANTITY	DESCRIPTION	PRICE	AMOUNT
28	Cyanide Leach Assays W.O. #T910017	35.00	980 00
58	Cyanide Leach Assays W.O. #T910021-22	35.00	2030 00
18	Gold Assays W.O. #T910021A-22A	7.50	135 00
18	Sample Prep.	3.25	58 50
	Sub-total.....		3203 50
	7 % GST # R121844088		224 25
	Amount due before March 1, 1991.....		3427 75

Please note: Accounts more than 45 days past due will lose any price discounts

Ready To Pay PO #
Date Product/Service Rec'd 25/2/91
Receipt Verified By BH
Amount $ 3427.75
Charge 3203.50 1446-400- $ 3203.50
845-6515 - $ 224.25
No. P.O.

1.248

LT-1297

Thank You!

ACCURASSAY LABORATORIES LTD
CHARTERED CHEMISTS, ASSAYERS, ANALYTICAL CONSULTAN
x 426, 3 Industrial Dr., Kirkland Lake
Ontario, Canada P2N 3J1

TEL.: (705) 567-3361 - FAX: (705) 567-8368

TO

Rod Thomas
BHP Utah Mines Ltd.
Suite 909, 25 Adelaide St. (
TORONTO, ONTARIO
M5C 1H2

RECEIVED FEB 25 1991

Authority To Pay PO #
Date Product/Service Rec'd 25/2/91
Receipt Verified By BH
Amount $2912.01
Charge Code 1446-400-$2721.50
245-GST5-$190.51
Cust No. P.O.

25 1991 248

791434

DATE
February 15, 1991

CUSTOMER ORDER N°
Project: 1446

WORK ORDER N°
Various

DATE SUBMITTED

TERMS
net 30 days, 2.0% per month on overdue accounts.

QUANTITY	DESCRIPTION		PRICE	AMOUNT	
3	Gold Assays	W.O.#T910026A	7.50	22	50
3	Sample Prep.	cert.# 36667	3.25	9	75
23	Cyanide Leach Assays	W.O.#T910026	35.00	805	00
12	Cyanide Leach Assays	W.O.#T910030	35.00	420	00
18	Gold Assays	W.O.#T910040	7.50	135	00
18	Sample Prep.	cert.# 36722	3.25	58	50
2	Gold Reassays	W.O.#T910040	8.00	16	00
32	Gold Assays	W.O.#T910046	7.50	240	00
32	Sample Prep.	cert.# 36733-34	3.25	104	00
6	Gold Assays	W.O #T910058A	7.50	45	00
6	Sample Prep.	cert.# 36775	3.25	19	50
1	Gold Reassay	W.O #T910058A	8.00	8	00
44	Gold Assays	W.O.#T910058	7.50	330	00
44	Sample Prep.	cert.# 36797-98	3.25	143	00
31	Gold Assays	W.O.#T910061	7.50	232	50
31	Sample Prep.	cert.# 43014-15	3.25	100	75
4	Gold Reassays	W.O.#T910061	8.00	32	00
	Sub-total.....			2721	50
	7 % GST # R121844088			190	51
	Amount due before March 17, 1991.....			2912	01
	Please note: Accounts more than 45 days past due will lose any price discounts				

LF-1297

Thank You!

ACCURASSAY LABORATORIES LTD.
CHARTERED CHEMISTS, ASSAYERS, ANALYTICAL CONSULTANTS
Box 426, 3 Industrial Dr., Kirkland Lake
Ontario, Canada P2N 3J1

791446

TEL.: (705) 567-3361 - FAX: (705) 567-8368

TO

Rod Thomas
BHP Utah Mines Ltd.
Suite 909, 25 Adelaide St. E.
TORONTO, ONTARIO
M5C 1H2

DATE	February 26, 1991
CUSTOMER ORDER N°	Project: 1446
WORK ORDER N°	Various
DATE SUBMITTED	

TERMS

net 30 days, 2.0% per month on overdue accounts.

QUANTITY	DESCRIPTION	PRICE	AMOUNT
1	Gold Reassay W.O.#T910061 cert.# 43052	8.00	8 00
	Sub-total.....		8 00
	7 % GST # R121844088		0 56
	Amount due before March 28, 1991.....		8 56
	Please note: Accounts more than 45 days past due will lose any price discounts		

Pay PO #
Product/Service Rec'd
Receipt
Amount

Rodney W Thomas.

LF-1297

Thank You!

ACCURASSAY LABORATORIES LTD.

P.O. BOX 426
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J1
TEL.: (705) 567-3361

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

RECEIVED FEB 25 1991

2.14172

Certificate of Analysis

Mr. Rod Thomas
BHP Utah Mines Ltd.
Suite 900, 25 Adelaide Street East
TORONTO, ON
M5C 1Y2

Page #1

36639

Date: January 28 19 91

WORK ORDER: T910017
PROJECT:

SAMPLE NUMBERS ACCURASSAY	CUSTOMER	WEIGHT PULP (g)	GOLD Oz/T	RESIDUE Oz/T	TOTAL ASSAY Oz/T	PERCENT RECOVERY
538146	2901	893.0 g	<0.004	0.0006	<0.004	
538147	2902	844.0 g	<0.004	0.0002	<0.004	
538148	2903	937.0 g	<0.004	<0.0002	<0.004	
538149	2904	930.0 g	<0.004	0.0003	<0.004	
538150	2905	866.0 g	<0.004	0.0002	<0.004	
538151	2906	897.0 g	<0.004	0.0029	<0.004	
538152	2907	687.0 g	<0.004	0.0003	<0.004	
538153	2908	819.0 g	<0.004	0.0006	<0.004	
538154	2909	851.0 g	<0.004	<0.0002	<0.004	
538155	2910	877.0 g	<0.004	<0.0002	<0.004	
538156	2911	850.0 g	<0.004	0.0004	<0.004	
538157	2912	346.0 g	0.005	0.0029	0.008	64
538158	2913	569.0 g	<0.004	0.0022	<0.004	
538159	2914	864.0 g	<0.004	0.0004	<0.004	
538160	2915	392.0 g	0.010	0.0004	0.010	96
538161	2916	675.0 g	<0.004	0.0002	<0.004	
538162	2917	870.0 g	<0.004	0.0011	<0.004	
538163	2918	606.0 g	0.010	0.0019	0.012	84
538164	2919	366.0 g	<0.004	0.0021	<0.004	
538165	2920	777.0 g	0.007	0.0010	0.008	87
538166	2921	799.0 g	<0.004	<0.0002	<0.004	
538167	2922	928.0 g	<0.004	0.0008	<0.004	
538168	2923	794.0 g	<0.004	0.0002	<0.004	
538169	2924	884.0 g	<0.004	0.0010	<0.004	
538170	2925	838.0 g	<0.004	<0.0002	<0.004	
538171	2926	709.0 g	<0.004	<0.0002	<0.004	
538172	2927	422.0 g	<0.004	<0.0002	<0.004	
538173	2928	873.0 g	<0.004	<0.0002	<0.004	

31 MAY 21 P2:48

LF-30

Per: [signature]

ORIGINAL

ACCURASSAY LABORATORIES LTD.

P.O. BOX 426
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J1
TEL.: (705) 567-3361

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

Mr. Rod Thomas
BHP Utah Mines Ltd.
Suite 900, 25 Adelaide Street East
TORONTO, ON
36662 M5C 1Y2

Date: February 01 19 91

WORK ORDER: T910021
PROJECT: 1446

SAMPLE NUMBERS ACCURASSAY	CUSTOMER	WEIGHT PULP (g)	GOLD Oz/T	RESIDUE Oz/T	TOTAL ASSAY Oz/T	PERCENT RECOVERY
538337	2929	589.0 g	<0.004	<0.0002	<0.004	
538338	2930	549.0 g	<0.004	<0.0002	<0.004	
538339	2931	994.0 g	<0.004	<0.0002	<0.004	
538340	2932	1021.0 g	<0.004	0.0002	<0.004	
538341	2933	710.0 g	<0.004	<0.0002	<0.004	
538342	2934	639.0 g	<0.004	<0.0002	<0.004	
538343	2935	1074.0 g	<0.004	<0.0002	<0.004	
538344	2936	983.0 g	<0.004	<0.0002	<0.004	
538345	2937	1077.0 g	<0.004	<0.0002	<0.004	
538346	2938	874.0 g	<0.004	<0.0002	<0.004	
538347	2939	971.0 g	<0.004	<0.0002	<0.004	
538348	2940	881.0 g	<0.004	<0.0002	<0.004	
538349	2941	897.0 g	<0.004	<0.0002	<0.004	
538350	2942	943.0 g	<0.004	<0.0002	<0.004	
538351	2943	922.0 g	<0.004	<0.0002	<0.004	
538352	2944	879.0 g	<0.004	<0.0002	<0.004	
538353	2945	292.0 g	<0.004	0.0002	<0.004	
538354	2946	629.0 g	0.006	0.0008	0.007	88
538355	2947	865.0 g	<0.004	<0.0002	<0.004	
538356	2948	600.0 g	<0.004	0.0003	<0.004	
538357	2949	685.0 g	0.006	0.0007	0.007	90
538358	2950	761.0 g	<0.004	0.0007	<0.004	
538359	2951	1007.0 g	<0.004	<0.0002	<0.004	
538360	2952	983.0 g	<0.004	<0.0002	<0.004	
538361	2953	1034.0 g	<0.004	<0.0002	<0.004	
538362	2954	936.0 g	<0.004	0.0003	<0.004	
538363	2955	992.0 g	<0.004	<0.0002	<0.004	
538364	2956	987.0 g	<0.004	0.0005	<0.004	
538365	2957	563.0 g	0.005	0.0008	0.006	87
538366	2958	724.0 g	<0.004	<0.0002	<0.004	

Per:

F-30

ORIGINAL

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Certificate of Analysis

Mr. Rod Thomas
BHP Utah Mines Ltd.
Suite 900, 25 Adelaide Street East
TORONTO, ON
M5C 1Y2

36663

Date: February 01 19 91

WORK ORDER: T910021
PROJECT: 1446

SAMPLE NUMBERS ACCURASSAY	CUSTOMER	WEIGHT PULP (g)	GOLD Oz/T	RESIDUE Oz/T	TOTAL ASSAY Oz/T	PERCENT RECOVERY
538367	2959	464.0 g	<0.004	0.0002	<0.004	
538368	2960	400.0 g	<0.004	<0.0002	<0.004	
538369	2961	789.0 g	<0.004	<0.0002	<0.004	
538370	2962	394.0 g	<0.004	<0.0002	<0.004	
538371	2963	796.0 g	<0.004	<0.0002	<0.004	
538372	2964	845.0 g	<0.004	<0.0002	<0.004	
538373	2965	584.0 g	<0.004	<0.0002	<0.004	
538374	2966	960.0 g	<0.004	<0.0002	<0.004	
538375	2967	895.0 g	<0.004	0.0002	<0.004	
538376	2968	922.0 g	<0.004	0.0002	<0.004	
538377	2969	949.0 g	<0.004	0.0016	<0.004	
538378	2970	982.0 g	<0.004	0.0003	<0.004	
538379	2971	289.0 g	0.006	0.0002	0.006	97
538380	2976	590.0 g	<0.004	0.0003	<0.004	
538381	2977	472.0 g	0.047	0.0087	0.056	84
538382	2978	482.0 g	0.159	0.0152	0.174	91
538383	2979	362.0 g	0.324	0.0518	0.376	86
538384	2980	399.0 g	0.016	0.0016	0.018	91
538385	2982	197.0 g	0.131	0.0080	0.139	94
538386	2983	511.0 g	<0.004	0.0006	<0.004	
538387	2984	330.0 g	0.004	0.0002	0.004	96
538388	2985	549.0 g	<0.004	0.0002	<0.004	
538389	2986	263.0 g	<0.004	0.0007	<0.004	
538390	2987	261.0 g	<0.004	0.0002	<0.004	

LF-30

Per: Blaine Watt

ORIGINAL

ACCURASSAY LABORATORIES LTD.

P.O. BOX 426
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J1
TEL.: (705) 567-3361

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

Mr. Rod Thomas
BHP Utah Mines Ltd.
Suite 900, 25 Adelaide Street East
TORONTO, ON
M5C 1Y2

Page #1

Date: February 01 19 91

36664

WORK ORDER: T910022
PROJECT: 1446

SLUDGES

SAMPLE NUMBERS ACCURASSAY	CUSTOMER	WEIGHT PULP (g)	GOLD Oz/T	RESIDUE Oz/T	TOTAL ASSAY Oz/T	PERCEI RECOVE
538391	2972	424.0 g	<0.004	0.0004	<0.004	
538392	2973	601.0 g	<0.004	0.0003	<0.004	
538393	2974	280.0 g	<0.004	0.0002	<0.004	
538394	2975	813.0 g	<0.004	0.0003	<0.004	

Per:

LF-30

ORIGINAL

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Certificate of Analysis

Mr. Rod Thomas
BHP Utah Mines Ltd.
Suite 900, 25 Adelaide Street East
TORONTO, ON
M5C 1Y2

Date: February 05 19 91

36691

WORK ORDER: T910026
PROJECT: 1446

SAMPLE NUMBERS ACCURASSAY	CUSTOMER	WEIGHT PULP (g)	GOLD Oz/T	RESIDUE Oz/T	TOTAL ASSAY Oz/T	PERCENT RECOVERY
538464	2988	819.0 g	<0.004	0.0003	<0.004	
538465	2989	756.0 g	<0.004	0.0002	<0.004	
538466	2990	1115.0 g	<0.004	0.0002	<0.004	
538467	2991	1022.0 g	<0.004	0.0003	<0.004	
538468	2992	943.0 g	<0.004	0.0003	<0.004	
538469	2993	762.0 g	0.004	0.0002	0.004	95
538470	2994	783.0 g	<0.004	0.0003	<0.004	
538471	2995	830.0 g	<0.004	0.0002	<0.004	
538472	2996	890.0 g	<0.004	<0.0002	<0.004	
538473	2997	806.0 g	<0.004	0.0003	<0.004	
538474	2998	566.0 g	0.013	0.0014	0.014	91
538475	2999	146.0 g	0.018	0.0005	0.019	97
538476	3000	446.0 g	0.010	0.0011	0.011	90
538477	3001	798.0 g	0.006	0.0010	0.007	86
538478	3002	485.0 g	<0.004	0.0004	<0.004	
538479	3003	636.0 g	<0.004	0.0006	<0.004	
538480	3004	821.0 g	<0.004	0.0004	<0.004	
538481	3005	553.0 g	<0.004	0.0005	<0.004	
538482	3006	622.0 g	0.004	0.0002	0.004	96
538483	3007	1010.0 g	<0.004	0.0003	<0.004	
538484	3008	887.0 g	<0.004	0.0003	<0.004	
538485	3009	583.0 g	0.005	0.0004	0.006	92
538486	3010	930.0 g	<0.004	0.0002	<0.004	

Per: [signature]

LF-30

ORIGINAL

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P.O. BOX 426
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TEL.: (705) 567-3361

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

Mr. Rod Thomas
BHP Utah Mines Ltd.
Suite 900, 25 Adelaide Street East
TORONTO, ON
M5C 1Y2

36708

Date: February 06 19 91

WORK ORDER: T910030
PROJECT: 1446

SAMPLE NUMBERS ACCURASSAY	CUSTOMER	WEIGHT PULP (g)	GOLD Oz/T	RESIDUE Oz/T	TOTAL ASSAY Oz/T	PERCENT RECOVERY
538682	3012	785.0 g	<0.004	<0.0002	<0.004	
538683	3013	676.0 g	<0.004	<0.0002	<0.004	
538684	3014	644.0 g	<0.004	<0.0002	<0.004	
538685	3015	928.0 g	<0.004	<0.0002	<0.004	
538686	3016	802.0 g	<0.004	<0.0002	<0.004	
538687	3017	0.0 g	Result to follow			
538688	3018	674.0 g	<0.004	<0.0002	<0.004	
538689	3019	680.0 g	<0.004	<0.0002	<0.004	
538690	3020	543.0 g	<0.004	<0.0002	<0.004	
538691	3021	703.0 g	<0.004	<0.0002	<0.004	
538692	3022	327.0 g	<0.004	<0.0002	<0.004	
538693	3024	821.0 g	<0.004	<0.0002	<0.004	
538694	3025	0.0 g	Sample missing			

Per: Blaine Watt

ORIGINAL

ACCURASSAY LABORATORIES LTD.

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TEL.: (705) 567-3361

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

Mr. Rod Thomas
BHP Utah Mines Ltd.
Suite 900, 25 Adelaide Street East
TORONTO, ON
M5C 1Y2

Date: February 08 19 91

36732

WORK ORDER: T910030
PROJECT: 1446

SAMPLE NUMBERS ACCURASSAY	CUSTOMER	WEIGHT PULP (g)	GOLD Oz/T	RESIDUE Oz/T	TOTAL ASSAY Oz/T	PERCENT RECOVERY
538687	3017	802.0 g	<0.004	<0.0002	<0.004	

Per:

LF-30

ORIGINAL

ACCURASSAY LABORATORIES LTD.

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Certificate of Analysis

Rod Thomas
BHP Utah Mines Ltd.
Suite 909, 25 Adelaide St. E.
36656 TORONTO, ONTARIO
M5C 1H2

Date: January 31 19 91

Work Order # : 1910021A
Project : 1446

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	Gold Oz/T	
538353	2945	44	0.001	
538354	2946	225	0.007	
538355	2947	10	<0.001	
538356	2948	37	0.001	
538357	2949	167	0.005	
538358	2950	93	0.003	
538380	2976	18	0.001	
538381	2977	1401	0.041	
538382	2978	5444	0.158	
538383	2979	12199	0.355	
538383	2979	12132	0.353	Check
538384	2980	375	0.011	
538385	2982	5113	0.149	
538386	2983	101	0.003	
538387	2984	27	0.001	
538387	2984	23	0.001	Check

Per: _____

LF-30

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Certificate of Analysis

Rod Thomas
BHP Utah Mines Ltd.
Suite 909, 25 Adelaide St. E.
36657 TORONTO, ONTARIO
M5C 1H2

Date: January 31 19 91

Work Order # : 1910022A
Project : 1446-sludges

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	Gold Oz/T	
538391	2972	95	0.003	
538392	2973	73	0.002	
538393	2974	133	0.004	
538394	2975	39	0.001	
538394	2975	59	0.002	Check

Per: Blaine Durant

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Rod Thomas
BHP Utah Mines Ltd.
Suite 909, 25 Adelaide St. E.
36667 TORONTO, ONTARIO
M5C 1H2

Date: February 1 19 91

Work Order # : T910026A
Project : 1446

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	Gold Oz/T	
538474	2998	153	0.004	
538475	2999	297	0.009	
538476	3000	288	0.008	
538476	3000	255	0.007	Check

LF-30

Per: Blaine Watt

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Certificate of Analysis

Rod Thomas
BHP Utah Mines Ltd.
Suite 909, 25 Adelaide St. E.
36722 TORONTO, ONTARIO
M5C 1H2

Date: February 7 19 91

Work Order # : T910040
Project : 1446

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	Gold Oz/T	
539073	3023	<3	<0.001	
539074	3025	9	<0.001	
539075	3026	<3	<0.001	
539076	3027	3	<0.001	
539077	3028	4	<0.001	
539078	3029	11	<0.001	
539079	3030	11	<0.001	
539080	3031	6	<0.001	
539081	3032	10	<0.001	
539082	3033	27	0.001	
539082	3033	25	0.001	Check
539083	3034	2344	0.068	
539084	3035	1093	0.032	
539085	3036	83	0.002	
539086	3037	60	0.002	
539087	3038	20	0.001	
539088	3039	79	0.002	
539089	3040	13	<0.001	
539090	3041	5	<0.001	
539090	3041	4	<0.001	Check

Per: Blaine Vuitt

LF-30

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Certificate of Analysis

Mr. Rod Thomas
BHP Utah Mines Ltd
Suite 909, 25 Adelaide St.E.
TORONTO, ON
36728 M5C 1H2

Date: February 08 19 91

Work Order: T910040
Project : 1446

Results are as follows:

SAMPLE NUMBER		Original		Reassay	
Accurassay	Customer	Gold ppb	Gold Oz/T	Gold ppb	Gold Oz/T
539083	3034	2344	0.068	2411	0.070
539084	3035	1093	0.032	1079	0.031

Per:

LF-30

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TEL.: (705) 567-3361

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

Rod Thomas
BHP Utah Mines Ltd.
Suite 909, 25 Adelaide St. E.
TORONTO, ONTARIO
M5C 1H2

36733

Date: February 8 19 91

Work Order # : T910046
Project : 1446

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	Gold Oz/T	
539175	3042	5	<0.001	
539176	3043	7	<0.001	
539177	3044	6	<0.001	
539178	3045	11	<0.001	
539179	3046	5	<0.001	
539180	3047	47	0.001	
539181	3048	7	<0.001	
539182	3049	677	0.020	
539183	3050	8	<0.001	
539184	3051	4	<0.001	
539184	3051	4	<0.001	Check
539185	3052	16	<0.001	
539186	3053	14	<0.001	
539187	3054	5	<0.001	
539188	3055	4	<0.001	
539189	3056	4	<0.001	
539190	3057	4	<0.001	
539191	3058	4	<0.001	
539192	3059	4	<0.001	
539193	3060	5	<0.001	
539193	3060	4	<0.001	Check
539194	3061	4	<0.001	
539195	3062	6	<0.001	
539196	3063	12	<0.001	
539197	3064	17	<0.001	
539198	3065	15	<0.001	
539199	3066	15	<0.001	
539200	3067	98	0.003	
539201	3068	426	0.012	
539202	3069	89	0.003	
539202	3069	122	0.004	Check

Per: [signature]

LF-30

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Certificate of Analysis

Rod Thomas
BHP Utah Mines Ltd.
36734 Suite 909, 25 Adelaide St. E.
TORONTO, ONTARIO
M5C 1H2

Date: February 8 19 91

Work Order # : T910046
Project : 1446

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	Gold Oz/T	
539203	3070	1517	0.044	
539204	3071	100	0.003	
539205	3072	143	0.004	
539206	3073	2258	0.066	
539206	3073	2132	0.062	Check

Per: [signature]

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Certificate of Analysis

Rod Thomas
BHP Utah Mines Ltd.
36797 Suite 909, 25 Adelaide St. E.
TORONTO, ONTARIO
M5C 1H2

Date: February 15 19 91

Work Order # : T910058
Project : 1446

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	Gold oz/T	
539754	3074	10	<0.001	
539755	3075	3	<0.001	
539756	3076	4	<0.001	
539757	3077	16	<0.001	
539758	3078	5	<0.001	
539759	3079	6	<0.001	
539760	3080	4	<0.001	
539761	3081	3	<0.001	
539762	3082	5	<0.001	
539763	3083	6	<0.001	
539763	3083	5	<0.001	Check
539764	3084	44	0.001	
539765	3085	48	0.001	
539766	3086	28	0.001	
539767	3087	45	0.001	
539768	3088	29	0.001	
539769	3089	3	<0.001	
539770	3090	17	<0.001	
539771	3091	28	0.001	
539772	3092	34	0.001	
539772	3092	38	0.001	Check
539773	3093	5	<0.001	
539774	3094	7	<0.001	
539775	3095	6	<0.001	
539776	3096	17	<0.001	
539777	3097	7	<0.001	
539778	3098	4	<0.001	
539779	3105	8	<0.001	
539780	3106	9	<0.001	
539781	3107	5	<0.001	
539781	3107	6	<0.001	Check

Per: Blaine Smith

LF-30

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Certificate of Analysis

Rod Thomas
BHP Utah Mines Ltd.
36775 Suite 909, 25 Adelaide St. E.
TORONTO, ONTARIO
M5C 1H2

Date: February 14 19 91

Work Order # : T910058A
Project : 1446

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	Gold Oz/T	
539798	3099	48	0.001	
539799	3100	94	0.003	
539800	3101	1209	0.035	
539801	3102	259	0.008	
539802	3103	91	0.003	
539803	3104	94	0.003	
539803	3104	113	0.003	Check

Per: [signature]

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Certificate of Analysis

Mr. Rod Thomas
BHP Utah Mines Ltd
Suite 909, 25 Adelaide St.E.
TORONTO, ON
36779 M5C 1H2

Date: February 14 19 91

Work Order: T910058A
Project: : 1446

Results are as follows:

SAMPLE NUMBER		Original		Reassay	
Accurassay	Customer	Gold ppb	Gold Oz/T	Gold ppb	Gold Oz/T
539800 (sludge)	3101	1209	0.035	1291	0.038

Per: Blaine Scott

LF-30

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Certificate of Analysis

Rod Thomas
BHP Utah Mines Ltd.
Suite 909, 25 Adelaide St. E.
TORONTO, ONTARIO
36798 M5C 1H2

February 15 91

Date: _____ 19 ____

Work Order # : T910058
Project : 1446

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	Gold Oz/T	
539782	3108	7	<0.001	
539783	3109	10	<0.001	
539784	3110	5	<0.001	
539785	3111	13	<0.001	
539786	3112	6	<0.001	
539787	3113	8	<0.001	
539788	3114	43	0.001	
539789	3115	14	<0.001	
539790	3116	6	<0.001	
539790	3116	5	<0.001	Check
539791	3117	8	<0.001	
539792	3118	9	<0.001	
539793	3119	10	<0.001	
539794	3120	7	<0.001	
539795	3121	10	<0.001	
539796	3122	49	0.001	
539797	3123	5	<0.001	
539797	3123	8	<0.001	Check

Per: B. Bruce Duncan

ORIGINAL

ACCURASSAY LABORATORIES

A DIVISION OF BARRINGER LABORATORIES LIMITED, REXDALE, ONTARIO
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President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

43014 # Certificate of Analysis

Rod Thomas
BHP Utah Mines Ltd.
Suite 909, 25 Adelaide St. E.
TORONTO, ONTARIO
M5C 1H2

February 18 91

Work Order # : T910061
Project : 1446

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	Gold Oz/T	
539831	3124	18	0.001	
539832	3125	6	<0.001	
539833	3126	5	<0.001	
539834	3127	49	0.001	
539835	3128	12	<0.001	
539836	3129	10	<0.001	
539837	3130	1487	0.043	
539838	3131	27	0.001	
539839	3132	1159	0.034	
539840	3133	87	0.003	
539840	3133	82	0.002	Check
539841	3134	31	0.001	
539842	3135	21	0.001	
539843	3136	10	<0.001	
539844	3137	14	<0.001	
539845	3138	7	<0.001	
539846	3139	8	<0.001	
539847	3140	10	<0.001	
539848	3141	9	<0.001	
539849	3142	10	<0.001	
539849	3142	10	<0.001	Check
539850	3143	7	<0.001	
539851	3144	9	<0.001	
539852	3145	10	<0.001	
539853	3146	1325	0.039	
539854	3147	24	0.001	
539855	3148	957	0.028	
539856	3149	11589	0.337	
539857	3150	141	0.004	
539858	3151	36	0.001	
539858	3151	37	0.001	Check

Per: Blaine Watts

LF-30

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President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

43016 # Certificate of Analysis

Mr. Rod Thomas
BHP Utah Mines Ltd
Suite 909, 25 Adelaide St.E.
TORONTO, ON
M5C 1H2

February 18 91

Work Order: T910061
Project: : 1446

Results are as follows:

SAMPLE NUMBER		Original		Reassay	
Accurassay	Customer	Gold ppb	Gold Oz/T	Gold ppb	Gold Oz/T
539837	3130	1487	0.043	1305	0.038
539839	3132	1159	0.034	1056	0.031
539853	3146	1325	0.039	1411	0.041
539856	3149	11589	0.338	10477	0.306

Per: Blaine Cuttell

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RECEIVED FEB 28 1991

43052 Certificate of Analysis

Mr. Rod Thomas
BHP Utah Mines Ltd
Suite 909, 25 Adelaide St.E.
TORONTO, ON
M5C 1H2

Page #1

February 22 91

Work Order: T910061
Project: : 1446

Results are as follows:

SAMPLE NUMBER		Original		Reassay	
Accurassay	Customer	Gold ppb	Gold Oz/T	Gold ppb	Gold Oz/T
539838	3131	27	0.001	36	0.001

Per: Blaine Mustard

LF-30

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President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

43015 # Certificate of Analysis

Rod Thomas
BHP Utah Mines Ltd.
Suite 909, 25 Adelaide St. E.
TORONTO, ONTARIO
M5C 1H2

February 18 91

Work Order # : T910061
Project : 1446

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	Gold Oz/T	
539859	3152	10	<0.001	
539860	3153	16	<0.001	
539861	3154	11	<0.001	
539861	3154	12	<0.001	Check

LF-30

Per: Blaine Smith

ORIGINAL

FIG. 1

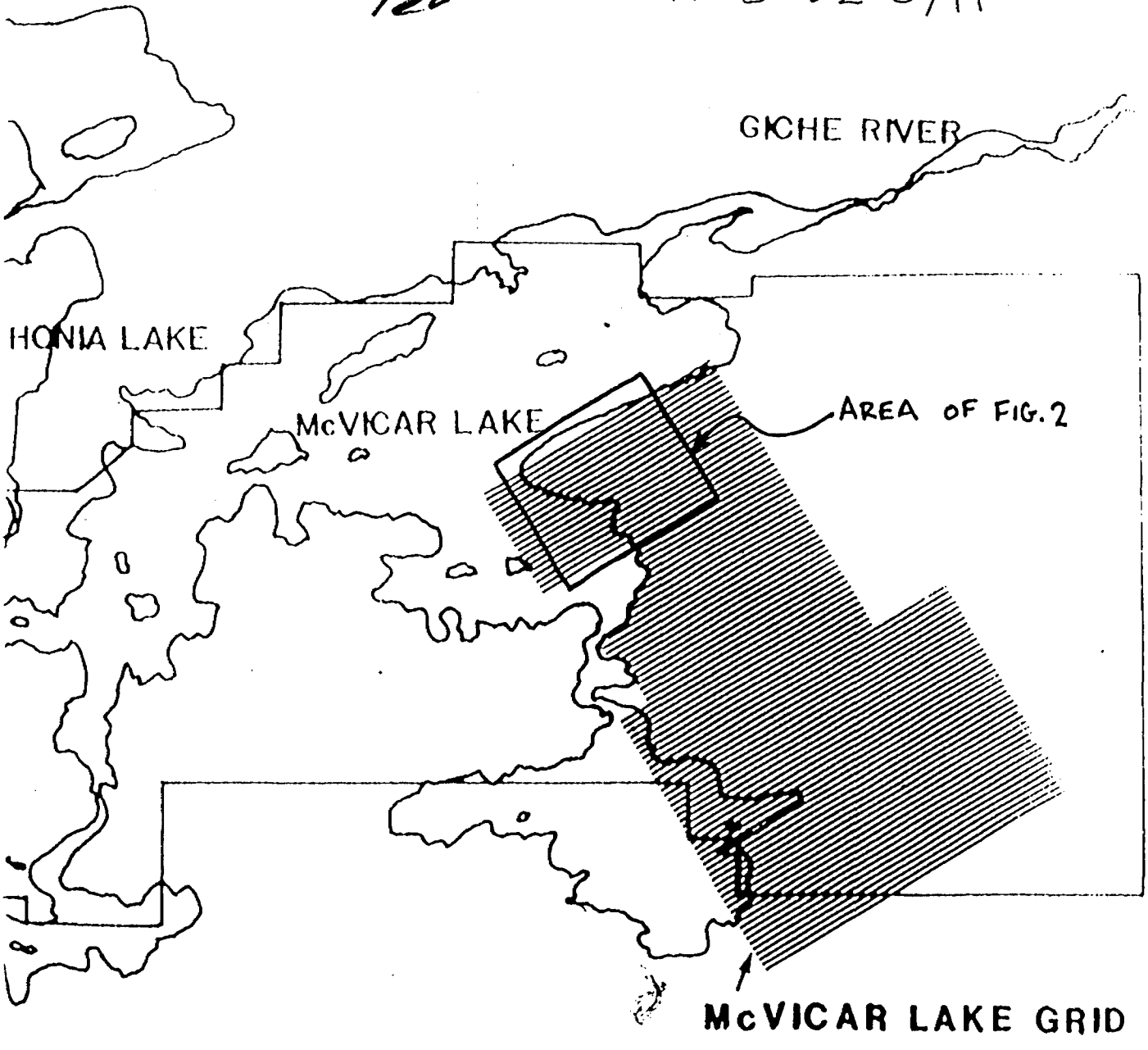
91 APR 4 P2:32

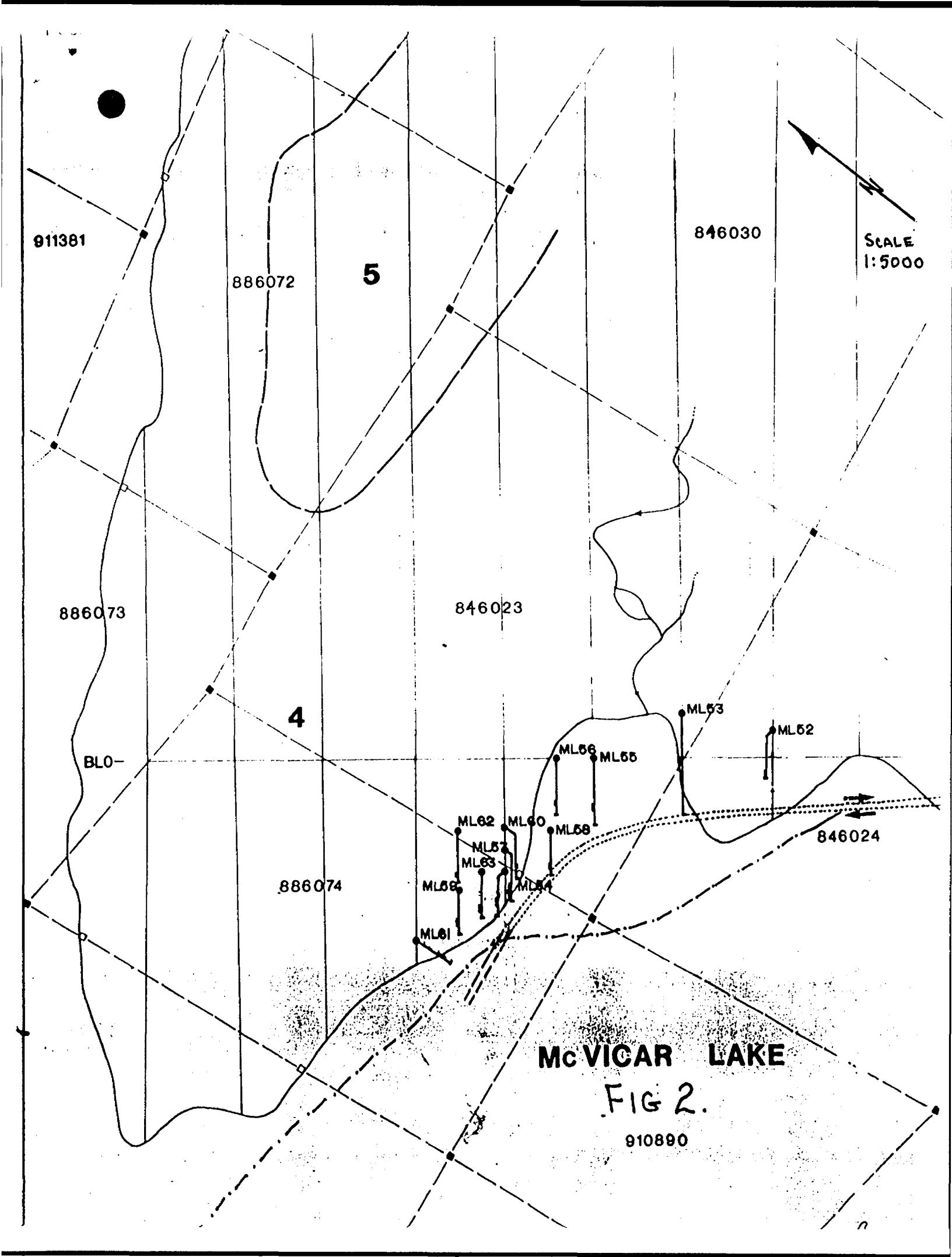
MINING RECORDER
PATRICIA
MINING DIVISION

2.14173

1 KM

NTS 52-O/11




911381
886072
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846030
SCALE
1:5000
886073
846023
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BLO-
ML53
ML52
ML56
ML55
ML62
ML60
ML58
ML57
ML63
846024
886074
ML59
ML54
ML61
McVICAR LAKE

FIG 2.

910890

HOLE NO: ML-91-52

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: L 4+00 N. 0+30 E.

INCLINATION: -58° BEARING: 240°

PROJECT: 1446 McVICAR LAKE

DATE STARTED: JAN 17, 1991

DATE FINISHED: JAN 18, 1991

TOTAL DEPTH: 319'

PAGE NO: 1 OF 6

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: R.G. BONNER

COMMENTS: TARGET INTERSECTED AT 220' - 298'. TRACE APPLE GREEN MICA.

AVE CORE REC'Y / HOLE + 90 %

ALTERATION | SILICIFICATION | CARBONATE | FRACTURING | % MINERAL & QTZ VEIN | GEOLOGY

DESCRIPTIVE GEOLOGY

0.0' - 10.0' OVERBURDEN

CASING REMAINS

10.0' - 58.0' BASALT

DARK GREEN GREY, FINE TO MEDIUM GRAINED - SOME PORPHYRITIC ZONES WITH UP TO 1mm IDIOMORPHIC PLAGIOCLASE PHENOCRYSTS, WEAK TO MODERATE FRACTURING WITH FRACTURE RELATED SILICA ALTERATION, MINOR CARBONATE ALSO FRAC ASSOCIATED MINOR QUARTZ - CARB VEINING WITH RARE STRINGER PYRITE - DISSEMINATED PYRITE COMMON (<1%), WEAK PATCHY FOLIATION, MINOR IRON CARBONATE AT FRACTURE INTERSECTIONS, PYRITE DISSEMINATIONS RANGE UP TO 2% OVER NARROW INTERVALS

QTZ VEIN AT 20° TO CA

SHARP

% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED TAG #
			BW			
TR	19	90	BQ			
TR	29	100				
1		100		34.0		
1-2	39			39.0	5.0'	2901
<1	49	100				
TR	59	100				

MINING RECORDER
PATRICIA
MINING DIVISION
91 APR 4 P2:32

DDH: ML-91-52 | PROJECT: 1446 McVICAR LAKE | PAGE NO: 2 OF 6

COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: JAN 17/91 | REF. TO CLAIM CORNER:

COORDINATES: L 4+00 N. 0+30 E. | DATE FINISHED: JAN 18/91 | SCALE: 1"=10'

INCLINATION: -58° | BEARING: 240° | TOTAL DEPTH: 319' | LOGGED BY: R.G.B.

ALTERATION: SILICIFICATION	ALTERATION: CARBONATE	FRACTURING	% MINERAL VEIN	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED

DESCRIPTIVE GEOLOGY

58.0'- 120.6' PORPHYRITIC BASALT

DARK GREEN GRAY, MASSIVE, FINE TO MEDIUM GRAINED, FELDSPAR PHYRIC WITH UP TO 25% 1-3 mm IDIOMORPHIC PLAGIOCLASE PHENO'S FINE SILICA FRACTURE ALTERATION INCREASES WITH DEPTH; RARE GREEN SILICA PATCHES (CENTIMETRE SIZE), ONLY FEW OBSERVATION OF FINE PYRITE AS BLEBS - FRACTURE RELATED

PATCH GREEN SILICA ALTERATION

RUBBLE

INCREASING FRACTURING WITH CARBONATE

PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE
TR	69	100	BQ
-	79	100	
-	89	100	
-	99	100	
TR	109	100	
-	119	100	

ML-91-52

PROJECT: 1446 McVICAR LAKE | PAGE NO: 3 OF 6

COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: JAN 17/91 | REF. TO CLAIM CORNER:

COORDINATES: L4+00 N. 0+30 E | DATE FINISHED: JAN 18/91 | SCALE: 1" = 10'

INCLINATION: -58° | BEARING: 240° | TOTAL DEPTH: 319' | LOGGED BY: R.G.B.

ALTERATION: IRON CARBONATE	ALTERATION: CARBONATE	FRACTURING	% MINERAL VEIN	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

SHARP

SHARP

120.6' - 126.9' BASALT

AS IN 10.0 - 58.0, FRACTURING IS MODERATE WITH CARBONATE FILLING, UP TO 1% PYRITE DISSEMINATIONS AND BLEBS, THIS UNIT APPROACHES A BRECCIA

126.9' - 204.7' PORPHYRITIC BASALT

AS IN 58.0 - 120.6', FRACTURING CONTINUES WITH CORE BECOMING BROKEN, CARBONATE (CALCITE) CHANGES ABRUPTLY TO IRON CARBONATE BELOW 140', IRON CARB FRACTURES ARE LATER THAN EARLY SILICA ALTERED SET - FE-CARB CROSS-CUTS, FOLIATION BECOMING MORE PRONOUNCED WITH DEPTH, CORE ABOVE 140' IS VUGGY

129'-149' CORE IS RUBBLE

INCREASINGLY FOLIATED

INTERBEDDED BASALT AND PORPHYRITIC BASALT

MASSIVE BASALT INTERBEDS ARE CHLORITIC WITH 1-2% PYRITE AS BLEBS, RARE STRINGERS, AND IDIOMORPH'S

CORETECH
TRUE DIP = 55°
296/46
287/54
292/54
292/47
292/61
303/57

% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED TAG #
			BQ	120.6		
1		100		RS.6	5.0'	2902
	129					
Tr		95				
	139					
Tr		95		193.5		
	149				4.5'	2903
Tr-1		100		152.0		
	159			159.5		
1-2		100			5.0'	2904
Tr				164.5		
	169					
Tr		100				
	179					

HOLE NO. ML-91-52 | PROJECT: 1446 McVICAR LAKE | PAGE NO: 4 OF 6

COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: JAN 17, 1991 | REF. TO CLAIM CORNER:

CO-ORDINATES L4+00 N. 0+30 E. | DATE FINISHED: JAN 18, 1991 | SCALE: 1"=10'

INCLINATION: -58° | BEARING: 240° | TOTAL DEPTH: 319' | LOGGED BY: RGB

ALTERATION: IRON CARBONATE	ALTERATION: CARBONATE	FRACTURING	% MINERAL VEIN	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED TAG #
					126.9' - 204.7' PORPHYRITIC BASALT CONT...		Tr	189	100	BQ			
							Tr	199	100				
							Tr	209	100		204.7	2.3'	2905
					204.7' - 220.0' SHEARED PORPHYRITIC BASALT LIGHT GREY GREEN, FINE GRAINED, WELL FOLIATED, REMNANT PLAGIOCLASE PHENO's - SOME OBSERVED WITH TAILS, CHLORITIC, LENTICULAR FELSPAR AND QUARTZ MASSES (CALCITE) LATE SUBPARALLEL IRON CARBONTE FRACTURE FILLING SOME QUARTZ FRACTURE FILLING WITH FE-CARB, BELOW 210' CORE IS VUGY - CALCITE WEATHERING, TRACE PYRITE AS BLEBS ASSOCIATED WITH FE-CARB RUENT		Tr		90		207.0	3.2'	2929
							Tr				210.2	5.0'	2906
							Tr	219			215.2	4.8' (no recov)	2907
							TR		95		220.0	3.5'	2908
					220.0' - 223.5' FAULT GOUGE DARK GREEN, APHANITIC, EARTHY, CHLORITE, MINOR LIMONITE VERY FRIABLE, ROCK IS TOTALLY DIGESTED, LITTLE EVIDENCE OF PRE-CURSOR - ONE NARROW ZONE OF BANDED MATERIAL ← IRONSTONE FROM BELOW?						223.5	4.5'	2909
							-	229	95		228.0	5.0'	2910
					223.5' - 237.1 IRONSTONE (OXIDE) DESCRIPTION FOLLOWS						233.0	4.1'	2911
								239			237.1 239.0	1.9'	2912

SHARP

FOLIATION AT 55° TO CA

VUGY

POINT OF DISAGREGATION

POINT OF COMPETENCE

FAULT

POINT OF DISAGREGATION CHANGE

HOLE NO. ML-91-52 | PROJECT: 1446 McVICAR LAKE | PAGE NO: 5 OF 6

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: JAN 17, 1991 | REF. TO CLAIM CORNER:

COORDINATES: L 4+00 N. 0+30 E. | DATE FINISHED: JAN 18, 1991 | SCALE: 1"=10'

INCLINATION: -58° | BEARING: 240° | TOTAL DEPTH: 319' | LOGGED BY: R.G.B.

ALTERATION: APPLE GREEN MICA | IRON CARBONATE | CARBONATE | FRACTURING | MINERAL VEIN | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

GREEN

GREY

223.5' - 237.1' IRONSTONE (OXIDE)

BLACK TO ORANGE TO RED, FINELY LAMINATED BLACK MAGNETITE ALTERNATED CHERT (RED, WHITE), INTERBEDDED FINE GRAINED WACKES (?) FEW CENTIMETRE THICK HEMATITE BANDS, SOFT SEDIMENT FOLDING APPARENT, TECTONIC FAULTING APPARENT NO SULPHIDES.

ORANGE (BIF?)

237.1' - 279.0' FAULT GOUGE

AS IN 220.0 - 223.5, SEVERAL DISCRETE COLOUR CHANGES SUGGEST SEVERAL LITHOLOGIES INVOLVED, ROCK IS TOTALLY DIGESTED - ESSENTIALLY CLAY, INTERMITTENT SULPHIDES AS BLEBS AND FINE DISSEMINATIONS, RARELY > 1%, QUARTZ VEIN IS BROKEN UP, SAMPLING IS COLOUR CO-ORDINATED SOME RUNS OF VERY POOR RECOVERY

BROWN

ORANGE

GREEN

SHARP QUARTZ VEIN FRAGMENTS

279.0 - 298.2' NORTH ZONE

279.0 - 293.5 INTERMEDIATE INTRUSIVE

MASSIVE, LIGHT YELLOW GREEN, FINE GRAINED, COMPETENT FEW FRACTURES, TR-1% DISSEMINATED SULPHIDE FRACTURES FILLED WITH QUARTZ, MINOR CALCITE, PYRITE STRINGERS, FEW FOLIATED ZONES

FOLIATION AT 60° TO CA WITH PY STRINGERS

SHARP QUARTZ-PYRITE-SERICITE BOUDINS + VEINLETS

APPLE GREEN MICA

SHARP

293.5' - 298.2' SHEARED BASALT

MEDIUM GREEN GREY, FOLIATED (MODERATE TO WEAK) TOP FOOT WITH QUARTZ-SERICITE-PYRITE FOLIATED VEINS GRADES INTO ZONES WITH APPLE GREEN MICA + TR PY DISS.

% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED TAG #
			BQ	239.0		
				242.0	3.0'	2913
TR-1		85			5.0'	2914
				247.0		
	249			249.0	2.0'	2915
					5.0' (4.0 RECOV)	2916
TR		85		254.0		
					5.0' (4.0 RECOV)	2917
	259			259.0		
TR		25			10.0' (3.0 RECOV)	2918
	269			269.0		
					4.0' (2.0 RECOV)	2919
TR		50		273.0	6.0' (4.0 RECOV)	2920
	279			279.0		
TR-3		100			5.0'	2921
				284.0		
	289			289.0	5.0'	2922
					4.5'	2923
TR		90		293.5		
				298.2	4.7' (1.5 RECOV)	2924
	299		V			

HOLE NO.: ML-91-52 | PROJECT: 1446 McVICAR LAKE | PAGE NO: 6 OF 6

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: JAN 17, 1991 | REF. TO CLAIM CORNER:

COORDINATES: L 4+00 N. 0+30 E. | DATE FINISHED: JAN 18, 1991 | SCALE: 1" = 10'

INCLINATION: -58° | BEARING: 240° | TOTAL DEPTH: 319' | LOGGED BY: RGB

ALTERATION: CARBONATE	FRACTURING	MINERAL: % VEN	GEOLOGY	DESCRIPTIVE GEOLOGY	% SULPHIDES: Py	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED TAG #
				COMMENTS: AVE CORE REC'Y / HOLE							
				298.2' - 303.9' BRECCIATED/SHEARED BASALT				BQ	298.2 ↓	5.7 (S.O RECOV)	2925
				CLASSIC ALTERED ZONE ASSOCIATE, DARK GREEN ENTENSELY SHEARED BRECCIA FRAGMENTS (ANGULAR TO ROUND) SUPPORTED BY CARBONATE MATRIX, TRACE PYRITE AS BLEBS	TR		90		303.9	2.0'	2926
									305.9		
									307.3	1.4'	2927
						309					
				303.9' - 319.0' ANORTHOSITIC GABBRO						5.0'	2928
				MASSIVE DARK GREEN WITH UP TO 0.5 CENTIMETRE PLAGIOCLASE CLOTS, MINOR LATE CHLORITIC FRACTURING, TRACE CARBONATE, TRACE PYRITE	TR		100		312.2		
				DIP TEST 58.5° TRUE							
				END OF HOLE - 319'							

HOLE NO. ML-91-53		PROJECT: 1446 McVICAR LAKE	PAGE NO: 1 OF 11
CASING COLLAR ELEV.:	GROUND ELEV.:	DATE STARTED: JAN 19, 1991	REF. TO CLAIM CORNER:
COORDINATES: L 5+00	N. 0+53 E.	DATE FINISHED: JAN 21, 1991	SCALE: 1" = 10'
INCLINATION: -55°	BEARING: 240°	TOTAL DEPTH: 629'	LOGGED BY: CJW

COMMENTS: TARGET INTERSECTED 278' - 298'. TRACE APPLE GREEN MICA. MINOR QTZ VEINING.

AVE CORE REC'Y / HOLE +98%

ALTERATION	CARBONATE	FRACTURING	MINERAL QTZ VN	GEOLOGY	DESCRIPTIVE GEOLOGY	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
					0.0' - 23.5' OVERBURDEN CASING REMAINS				BW			
					23.5' - 40.4' BASALT DARK GREEN GREY, FINE TO MED. GRAINED, WEAK FRACTURING WITH FRACTURE RELATED CARBONATE VNLTS. (MM-SCALE) MINOR EPIDOTE ASSOC. WITH CARBONATE. MASSIVE TO VERY WEAKLY FOLIATED. NO SULPHIDES NOTED.	NIL	29		BQ			
						NIL		100				
					40.4' - 73.4' PORPHYRITIC BASALT DARK GREEN GREY, MASSIVE, FINE TO MED. GRAINED WITH UP TO 20%, 1-2mm SUBHEDRAL PLAGIOCLASE PHENOCRYSTS. WEAK MM-SCALE FRACTURE CONTROLLED CARBONATE VNLTS. NIL TO TRACE DISS PY		39					
						NIL		100				
							49					
						TR		100				
							59					

SHARP CAT. @ 25° TO CA.

MINING DIVISION
PATRICIA
MINING RECORDER
91 APR 4 P2:32

LE NO. ML-91-53
SING COLLAR ELEV.: GROUND ELEV.:
RDINATES: 5+00 N. 0+53 E
CLINATION: -55° BEARING: 240°

PROJECT: 1446 McVICAR LAKE
DATE STARTED: JAN 19, 1991
DATE FINISHED: JAN 21, 1991
TOTAL DEPTH: 629'

REF. TO CLAIM CORNER:
SCALE: 1"=10'
LOGGED BY: CJW

ALTERATION: SILICIFICATION	ALTERATION: CARBONATE	FRACTURING	MINERAL <2% / >2%	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE
					DESCRIPTIVE GEOLOGY	

% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
NIL	69	100	BQ			
NIL		100				
TR	79					
NIL		100				
TR	89	100				
TR	99	100				
TR	109	100				
TR	119					

40.4' - 73.4' PORPHYRITIC BASALT
CONT...

GRADATIONAL CNT.

73.4' - 133.4' BLEACHED PORPHYRITIC BASALT

MEDIUM GREEN GREY, FINE TO MEDIUM GRAINED WITH UP TO 10%, 1-mm SUB TO ANHEDRAL PLAGIOCLASE PHENOCRYSTS. MASSIVE, WEAKLY TO MODERATELY-WELL FRACTURED WITH FRACTURE RELATED SILICA ALTERATION WHICH OFTEN PRODUCE 1-10 mm BLEACHED HALOES MARGINAL TO FRACTURES. MINOR CARBONATE VNLTS ALSO FRACTURE CONTROLLED. INCREASE CARBONATE ALTERATION DOWN HOLE. NIL TO TRACE PYRITE NOTED.

INCREASE CARBONATE ALTERATION

M-91-53

PROJECT: 1446 McVICAR LAKE | PAGE NO: 3 OF 11

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: JAN 19, 1991 | REF. TO CLAIM CORNER:

COORDINATES: L-5100 N. 0+53 E. | DATE FINISHED: JAN 21, 1991 | SCALE: 1"=10'

INCLINATION: -55° | BEARING: 240° | TOTAL DEPTH: 629' | LOGGED BY: CJW

ALTERATION: Fe-CARBONATE	ALTERATION: SILICIFICATION	ALTERATION: CARBONATE	FRACTURING	MINERAL: QTZ	MINERAL: CC	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

% SULPHIDES: PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED TAG #
TR	129	100	BQ	133.4		
TR				136.0	2.6'	2930
1		100				
TR	139			141.0	5.0'	2931
TR		100		146.0	5.0'	2932
TR	149	100				
TR	159	100				
TR	169	100		172.7	3.3'	2933
	179			176.0	3.5'	2934
				179.5		

73.4' - 133.4' BLEACHED PORPHYRITIC BASALT

CON'T...

133.4' - 136.0' BASALT

MEDIUM GREEN GREY, FINE GRAINED, MODERATELY WELL FOLIATED @ 30° TO CA. MODERATELY STRONG PERVASIVE CARBONATE ALTERATION WITH FE-CARB. VNLTS AT UPPER AND LOWER CONTACT TRACE-1% DISSEMINATED PYRITE

136.0' - 146.0' SHEARED PORPHYRITIC BASALT

AS IN 73.4'-133.4' BUT MODERATELY WELL SHEARED @ 30° TO CA.

146.0' - 172.7' BRECCIATED PORPHYRITIC BASALT

MEDIUM GREEN GREY, FINE TO MEDIUM GRAINED WITH UP TO 10% SUB TO ANHEDRAL PLAGIOCLASE PHENOCRYSTS STETCHED SUBPARALLEL TO S_1. FOLIATION WEAKLY TO MODERATELY DEVELOPED @ 40° TO CA. UNIT IS WEAKLY TO MODERATELY BRECCIATED ALONG IRREGULAR FRACTURES AND INFILLED WITH 1-4 mm CARBONATE VNLTS. FRAGMENT REMAIN ANGULAR AND CLAST SUPPORTED WITH NO ROTATION AND ONLY MINOR MOVEMENT NOTED. TRACE DISSEMINATED PYRITE.

172.7' - 179.5' BRECCIATED BASALT

MEDIUM GREY GREEN, FINE GRAINED, WEAKLY FOLIATED @ 40° TO CA UNIT IS WEAKLY TO MODERATELY BRECCIATED AND INFILLED WITH CM-MM SCALE CARBONATE MASSES AND VNLTS. SOME FRAGMENTS APPEAR ROUNDED AND ROTATED BUT NOT TO THE DEGREE SEEN WITHIN THE ALTERED ZONE. TRACE PYRITE NOTED

SHARP CNTS. @ 25° TO CA. CORE TECH CNT @ 128°/87°

CORE TECH S_1 @ 152°/80°

GRADATIONAL CNT.

CORE TECH S_1 @ 334°/84°

DIP TEST 55°

CORE TECH S_1 @ 310/53°

SHARP CNT. @ 50° TO CA.

SHARP CNT @ 15° TO CA

HOLE NO: ML-91-53 | PROJECT: 1446 McVICAR LAKE | PAGE NO: 4 OF 11

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: JAN 19, 1991 | REF. TO CLAIM CORNER:

COORDINATES: L5400 N. 0+53 E | DATE FINISHED: JAN 21, 1991 | SCALE: 1"=10'

INCLINATION: -55° | BEARING: 240° | TOTAL DEPTH: 629' | LOGGED BY: CJW

ALTERATION: FE-CARBONATE | SILICIFICATION | CARBONATE | FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED TAG #
				179.5		
TR		100	BQ	184.5	5.0'	2935
	189					
TR TO 1		100		195.7		
	199			200.7	5	2936
TR		100				
	209			209.4		
1-2% CPY TR		100		214.4	5.0'	2937
	219			219.0	4.6'	2938
TR		100		224.0	5.0'	2939
TR	229					
TR		100		234.0		
	239		V	239.0	5.0'	2940

179.5'-209.4' BLEACHED PORPHYRITIC BASALT

AS IN 40.4'-73.4' WITH NUMEROUS FRACTURE CONTROLLED, MM-SCALE SILICA AND CARBONATE ALTERATION, MINOR FE-CARBONATE VNLTS, RELATIVE TIMING UNKNOWN. TWO MM-SCALE VNLTS WITH UP TO 5% ASSOCIATED PYRITE, TRACE TO NIL THROUGH REST OF UNIT

PY WEAKLY SHEARED

209.4'-225.5' SHEARED/BRECCIATED BASALT

MEDIUM GREEN, FINE GRAINED, WEAKLY TO MODERATELY WELL SHEARED @ 55-60° TO CA., WEAKLY BRECCIATED AND INFILLED WITH 1-4mm CARBONATE MASSES. WELL SHEARED UNITS ASSOCIATED WITH WEAK TO MODERATE CARBONATE ALTERATION MINOR 10-30 cm INTERBEDS OF SHEARED PORPHYRITIC BASALT WITH CONTACTS @ 60° TO CA. BASALT CONTAINS TRACE DISSEMINATED PYRITE, PORPHYRITIC BASALT CONTAINS UP TO 2%, 1-3 mm LENTICULAR CHALCOPYRITE GRAINS ASSOCIATED WITH CARBONATE MASSES AND VNLTS. MINOR 1-5 MM QUARTZ VNLTS.

SHARP CNT @ 55° TO CA

PORPH. BASALT WITH 2% CPY

PORPH. BASALT

POLYM. BASALT

SHARP CNT @ 60° TO CA

BASALT

225.5'-278.6' SHEARED PORPHYRITIC BASALT

MEDIUM GREEN GREY, FINE TO MEDIUM GRAINED, WEAKLY TO MODERATELY WELL SHEARED @ 50-55° TO CA. DEGREE OF SHEARING RELATIVELY CONSISTANT THROUGHOUT UNIT. UP TO 10% SUB TO ANHEDRAL PLAGIOCLASE PHENOCRYSTS STRETCHED SUBPARALLEL TO S1. MODERATELY FRACTURED WITH FRACTURE

NO: ML-91-53 | PROJECT: 1446 McVICAR LAKE | PAGE NO: 5 OF 11

COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: JAN 19, 1991 | REF. TO CLAIM CORNER:

COORDINATES: L 5+00 N. 0+53 E | DATE FINISHED: JAN 21, 1991 | SCALE: 1"=10'

INCLINATION: -55° | BEARING: 240° | TOTAL DEPTH: 629' | LOGGED BY: CJW

ALTERATION: GREEN MICA | SERICITE | SILICIFICATION | CARBONATE | FRACTURING | % MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

225.5'-278.6' SHEARED PORPHYRITIC BASALT CONT...
CONTROLLED SILICA ALTERATION (MM-SCALE) MODERATELY DEVELOPED THROUGHOUT. SEVERAL CM-SCALE INTERVALS OF MODERATELY DEVELOPED FE-CARBONATE ALTERATION OCCURRING AS MM-SCALE LENSES AND VNLTS, RELATIVE TIMING UNKNOWN. MINOR 5-40 cm INTERBEDS OF WELL SHEARED BASALT WITH MODERATE MM-SCALE CARBONATE ALTERATION. SEVERAL MM-SCALE QUARTZ VNLTS. TRACE DISSEMINATED PYRITE

278.6'-298.6' NORTH ZONE

278.6'-279.9' QUARTZ VEIN
QUARTZ VEIN WITH SHARP CONTACTS PARALLEL TO S_1. UNIT CONTAINS 10-15% LIGHT GREEN, SERICITIC, 1-10 MM BANDS AND IRREGULAR MASSES OF HOST ROCK INCLUSIONS. 1-2% PYRITE WITHIN QUARTZ VEIN AND 3-5% PYRITE WITHIN INCLUSIONS. MINOR GREEN MICA ALTERATION AT CONTACTS OF INCLUSIONS AND QUARTZ

279.9'-298.6' SHEARED BASALT
MEDIUM TO LIGHT GREEN, FINE TO MEDIUM GRAINED, MODERATELY TO INTENSELY SHEARED @ 60-65° TO CA. MEDIUM AND LIGHT GREEN 3-10 MM COLOUR BANDING WITH 5 MM LOZENGE-SHAPED QUARTZ VEINS. AREAS OF MODERATE TO INTENSE SERICITIC ALTERATION WEAK CARBONATE AND GREEN MICA ALTERATION. 2-5% PYRITE

SHARP CNT @ 40° TOCA
PORPH. BASALT
PORPH. BASALT
CORE TECH S1 @ 282/35
SLICKENSIDES @ 323/26
GRADATIONAL CNT

% PY SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED TAG #
TR		100	BQ	249.0		
	249				5.0'	2941
TR		100		254.0		
	259					
TR				264.0		
		100		269.0	5.0'	2942
	269					
TR TO 1				274.0	5.0'	2943
		100		278.6	4.6'	2944
3-5	279			279.9	1.3'	2945
3-5		100		283.1	3.7'	2946
	289			288.7	5.1'	2947
2-5		100		292.0	3.3'	2948
				295.5	3.5'	2949
	299		V	298.6	3.1'	2950

M... 31-53

PROJECT: 1446 McVICAR LAKE | PAGE NO: 6 OF 11

...IN: COLLAR ELEV. | GROUND ELEV. | DATE STARTED: JAN 19, 1991 | REF. TO CLAIM CORNER:

...DINATES: L5+00 N. 0+53 E | DATE FINISHED: JAN 21, 1991 | SCALE: 1"=10'

...ECTION: -55° | BEARING: 240° | TOTAL DEPTH: 629' | LOGGED BY: CJW

ALTERATION: GREEN MICA | SERICITE | SILICIFICATION | CARBONATE | FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED TAG #
				298.6		
TR		100	BQ	303.6	5.0'	2951
				308.8	5.2'	2952
TR	309	100				
TR	319	100				
TR	329	100		331.1		
				336.1	5.0'	2953
TR TO 1	339	100		342.8		
				347.8	5.0'	2954
TR TO 1	349			352.8	5.0'	2955
2 TO 3		100		357.8	5.0'	2956
	359					

279.9'-298.6' SHEARED BASALT CONT...

PYRITE THROUGHOUT UNIT WITH UP TO 10% IN INTENSELY SHEARED AND SERICITIC UNITS. SEVERAL 30-60 cm SECTIONS OF MODERATELY SHEARED PORPHYRITIC BASALT.

298.6'-331.1' BRECCIATED PORPHYRITIC BASALT

AS IN 146.0'-172.7' BUT UNIT IS MODERATELY TO STRONGLY FRACTURED AND BRECCIATED AND INFILLED WITH MM-SCALE CARBONATE VNLTS. FOLIATION MODERATELY DEVELOPED @ 60° TO CA. TRACE DISSEMINATED PYRITE NOTED.

331.1'-352.8' SHEARED PORPHYRITIC BASALT / BASALT

MEDIUM GREY, FINE TO MEDIUM GRAINED, MODERATELY TO STRONGLY SHEARED @55-60° TO CA WITH INTENSITY INCREASING DOWN HOLE. MASORITY OF UNIT IS PORPHYRITIC BASALT WITH SEVERAL 5-30 cm BASALT INTERBEDS. WEAK TO MODERATE CARBONATE AND SILICA ALTERATION. WEAK SERICITIC ALTERATION AT BASE OF UNIT. TRACE TO 1% DISS. PYRITE

352.8'-364.4' BRECCIATED/SHEARED BASALT

MEDIUM TO DARK BLUISH GREEN, INTENSELY BRECCIATED AND SHEARED @ 50-60° TO CA. MODERATELY STRONG CARBONATE AND WEAK TO MODERATE GREEN MICA AND SERICITE ALTERATION. SEVERAL CM-SCALE QUARTZ LOZENGES. 2-8% DISS.

CORE TECH @ 57° DIP TEST

FE CARB

SHEARING INCREASES

BASALT

BASALT

GRADATIONALLY CNT.

OPAQUE AND HONEY COLOURED MINERALS

MC-91-53

PROJECT: 1446 McVICAR LAKE

PAGE NO: 7 OF 11

COLLAR ELEV.: GROUND ELEV.:

DATE STARTED: JAN 19, 1991

REF. TO CLAIM CORNER:

CO-ORDINATES: L 5+00 N. 0+53 E

DATE FINISHED: JAN 21, 1991

SCALE: 1"=10'

AZIMUTH: -55° BEARING: 240°

TOTAL DEPTH: 629'

LOGGED BY: CJW

ALTERATION: SERICITIZATION	SILICIFICATION	CARBONATE	FRACTURING	MINERAL VN%	GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

352.8'-364.4' BRECCIATED/SHEARED BASALT CONT...
DISSEMINATED AND IN MM-SCALE BANDS PARALLEL TO S. (AUG. 2% PYRITE) 20cm INTERVAL WITH 3% <1mm STRETCHED BLACK (OPAQUE) MINERALS HOSTING <0.1mm GRAINS OF A BRITTLE HONEY COLOURED MINERAL.

GRADATIONAL CNT

SHEARING INCREASE

364.4'-380.5' SHEARED BASALT
DARK GREEN, FINE TO MEDIUM GRAINED, TOP OF UNIT WELL SHEARED @ 65-70° TO CA, ASSOCIATED WITH MODERATE CARBONATE ALTERATION. REST OF UNIT BROKEN-UP AND VUGGY. TRACE DISS. PYRITE. SEVERAL 40-50cm FINE-GRAINED MEDIUM GREY MASSIVE TONALITE DYKES.

CONTACT ANGLE VARIES CONSIDERABLY

380.5' - 429.3' GABBRO
DARK TO MEDIUM GREEN, MASSIVE, MEDIUM GRAINED WITH SEVERAL CM. SCALE CARBONATE VNS. AND 30-50cm FINE GRAINED MEDIUM GREY MASSIVE TONALITE DYKES. TRACE SULPHIDES NOTED

% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED TAG #
2 to 3			BQ	357.8 ↓ 360.8	3.0'	2957
		90		364.4	3.6'	2958
TR	369			369.0	4.6' (3.0' Rerun)	2959
TR		90				
	379					
NIL		95				
	389					
NIL		100				
	399					
TR		100				
	409					
TR		100				
	419					

DLE NO. ML-91-53

ING COLLAR ELEV.: GROUND ELEV.

ORDINATES: L 5+00 N. 0+53 E.

CLINATION: -55° BEARING: 240°

PROJECT: 1446 McVICAR LAKE

DATE STARTED: JAN 19, 1991

DATE FINISHED: JAN 21, 1991

TOTAL DEPTH: 629'

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: CJW

ALTERATION | CARBONATE | FRACTURING | MINERAL Qtz Sz | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
			BQ			

380.5'-429.3' GABBRO

CONT...

TR

100

GRADATIONAL CNT

429

429.3'-449.0' TONALITE

FINE TO MEDIUM GRAINED, GREENISH GREY, MASSIVE WITH MM-SCALE QUARTZ-CARBONATE VEINS. ROCK IS PREDOMINANTLY QUARTZ AND PLAGIOCLASE WITH <5% K-SPAR AND 10-15% MAFICS (BIOTITE/AMPHIBOLE). NO SULPHIDES NOTED

NIL

100

439

NIL

100

DIP TEST 60° SHARP CNT @ 45°

449

449.0'-465.0' GABBRO

AS IN 380.5'-429.3', WEAKLY TO MODERATELY FOLIATED AT 30-35° TO CA. TRACE PYRITE. MODERATE PERVASIVE CARBONATE ALTERATION THROUGHOUT

NIL

100

459

NIL

100

GRADATIONAL CNT

469

465.0'-481.9' ANORTHOSITIC GABBRO

MEDIUM GREEN, MEDIUM GRAINED MASSIVE TO WEAKLY FOLIATED AT 45-50° TO CA. MM-SCALE CARBONATE VNLTS AND WEAK PERVASIVE CARBONATE ALTERATION TRACE TO NIL PYRITE

NIL

100

479

LE NO. ML-91-53
NG COLLAR ELEV.: GROUND ELEV
ORDINATES: L 5+00 N. 0+53 E
CLINATION: -55° BEARING: 240°

PROJECT: 1446 McVICAR LAKE
DATE STARTED: JAN 19, 1991
DATE FINISHED: JAN 21, 1991
TOTAL DEPTH: 629'

PAGE NO: 9 OF 11
REF. TO CLAIM CORNER:
SCALE: 1"=10'
LOGGED BY: CJW

ALTERATION | GREEN MICA | SILICIFICATION | CARBONATE | FRACTURING | MINERAL % | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

% SULPHIDES PY | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y. SAMP INT. | ESTIMATED TAG #

SHARP CNT @ 40° TO CA

SHARP CNT @ 50° TO CA

SHARP CNTS @ 30° T.CA.

SHARP CNT @ 20° TO CA

SHARP CNT @ 35° TO CA

465.0'-481.9' ANORTHOSITIC GABBRO

CONT...

481.9'-487.2' TONALITE

AS IN 429.3'-449.0'

487.2'-509.6' ANORTHOSITIC GABBRO

AS IN 465.0'-481.9'

509.6'-511.4' SHEARED/BRECCIATED BASALT

MEDIUM TO DARK GREEN, FINE GRAINED, MODERATELY SHEARED @ 40° TO CA. MODERATE MM-SCALE CARBONATE VNLTS. MINOR CARBONATE ASSOCIATED BRECCIATION. TRACE PYRITE

511.4'-521.0' TONALITE

AS IN 429.3'-449.0' WITH SEVERAL 5-10MM QUARTZ-FELDSPAR VEINS. MARGINAL TO THESE VEINS UNIT IS BLEACHED A YELLOWISH GREEN COLOUR TYPICAL TO INTERMEDIATE INTRUSIVE

521.0'-528.3' BRECCIATED GABBRO/PORPHYRITIC BASALT

DARK TO MEDIUM GREEN, MODERATELY BRECCIATED AND SHEARED @ 30-40° TO CA. 2 cm WIDE QUARTZ VEIN (30° T.CA) ENVELOPED BY 1-3cm OF STRONG GREEN MICA ALTERATION. TRACE DISS. PYRITE THROUGHOUT UNIT.

528.3'-558.4' SHEARED ANORTHOSITIC GABBRO

AS IN 465.0'-481.9' BUT WEAKLY TO MODERATELY SHEARED @ 40° TO CA. MODERATE PERVASIVE CARBONATE ALTERATION THROUGHOUT MODERATELY SHEARED SECTIONS

PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP INT.	ESTIMATED TAG #
NIL		100	BQ			
	489					
NIL		100				
	499					
NIL		100		509.6		
	509			511.4	1.8'	2960
TR		100		516.0		
	519			521.0	5.0'	2961
TR		100		523.3	2.3'	2962
	529			528.3	5.0'	2963
TR		100				
	539					

HOLE NO. ML-91-53
CASING COLLAR ELEV.: GROUND ELEV.
COORDINATES: L 5+00 N. 0+53 E
INCLINATION: -59° BEARING: 240°

PROJECT: 1446 McVICAR LAKE
DATE STARTED: JAN 19, 1991
DATE FINISHED: JAN 21, 1991
TOTAL DEPTH: 629'

PAGE NO: 10 OF 11
REF. TO CLAIM CORNER:
SCALE: 1"=10'
LOGGED BY: CJW

ALTERATION (CARBONATE)	FRACTURING	MINERAL (% VN)	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

528.3' - 558.4' SHEARED ANORTHOSITIC GABBRO
CON'T...

GRADATIONAL CNT.

558.4' - 585.0' ANORTHOSITIC GABBRO
AS IN 465.0' - 481.9'

SHARP CNT @ 40° TO CA

585.0' - 589.7' TONALITE
AS IN 429.3' - 449.0'

GRADATIONAL CNT

589.7' - 607.0' ANORTHOSITIC GABBRO
AS IN 465.0' - 481.9' WITH SEVERAL CM-SCALE QUARTZ VEINS

DIP TEST 60°

% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
TR		100	BQ			
	549					
TR		100				
	559					
NIL		100				
	569					
NIL		100				
	579					
NIL		100				
	589					
NIL		100				
	599					

HOLE NO. ML-91-53
CASING COLLAR ELEV.: GROUND ELEV
COORDINATES: L 5+00 N. 0+53 E
INCLINATION: -55° BEARING: 240°

PROJECT: 1446 McVICAR LAKE
DATE STARTED: JAN 19, 1991
DATE FINISHED: JAN 21, 1991
TOTAL DEPTH: 629'

REF. TO CLAIM CORNER:
SCALE: 1"=10'
LOGGED BY: CJW

ALTERATION: CARBONATE	FRACTURING	MINERAL: QTZ / CN	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES: PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED TAG #
				589.7' - 607.0' ANORTHOSITIC GABBRO					BQ			
				CON'T...								
			SHEARED SHARP CNT @ 60° TO CA.	607.0' - 614.2' INTERMEDIATE INTRUSIVE MEDIUM YELLOWISH GREEN, FINE TO MEDIUM GRAINED, WEAKLY FOLIATED @ 55° TO CA. TO MASSIVE, NUMEROUS CM-SCALE QTZ-CARBONATE VEINS SUBPARALLEL TO S_1. UNIT GRADES INTO MEDIUM GREY TONALITE AT ITS BASE. NO SULPHIDES NOTED.		NIL TO TR	609	100		607.0		
										612.0	5.0'	2964
						NIL	619	100				
				614.2' - 629.0' ANORTHOSITIC GABBRO AS IN 465.0' - 481.9'		NIL		100				
				END OF HOLE 629.0'			629					

HOLE NO: ML-91-54 | PROJECT: 1446 MONICA LAKE | PAGE NO 1 OF 5

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: JAN 22, 1991 | REF. TO CLAIM CORNER:

COORDINATES: 7+00 N. 1+25W | DATE FINISHED JAN 23, 1991 | SCALE 1"=10'

INCLINATION: -58° | BEARING: 240° | TOTAL DEPTH 289' | LOGGED BY: R.G. BONNER

COMMENTS: TARGET INTERSECTED AT 180'-232'. GOOD WIDTH OF MINERALIZED QTZ VEIN.

AVE CORE REC'Y / HOLE +85 %

SECTION	ALTERATION	FRACTURING	MINERAL QTZ VEIN	GEOLOGY	DESCRIPTIVE GEOLOGY	% PY SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
0					0.0'-15.0' OVERBURDEN CASING REMAINS				BW			
0				RUBBLE WITH BASALT								
				RUBBLE	15.0'-47.0' BASALT	-		30	BQ			
20							14					
				CHLORITIC MUD	DARK GREEN, APHANITIC GROUNDMASS WITH 30-40% VERY FINE FELDSPAR PHENOCRYSTS <1mm, FEW PLAGIOCLASE PHENO'S UP TO 5mm (18.0'-24.0'), CHLORITIC, MASSIVE RUBBLE, FEW SEAMS WITH CHLORITIC MUD (POOR RECOVERY)	TR		50				
				NO RECOVERY	TRACE DISSEMINATED FINE PYRITE AS BLEBS, FEW FRACTURES WITH LIMONITE		29					
30				RUBBLE		-		30				
				RUBBLE	47.0'-58.7' IRONSTONE		39					
				OBSCURE RUBBLE	DARK BROWN TO BLACK TO ORANGE, APHANITIC, GENTLY FOLDED, FEW OFF-SETTING MINOR FAULTS (TECTONIC) MINERALOGY - CHERT, MAGNETITE, HEMATITE (OXIDE) FRACTURED WITH LIMONITE, CHLORITE, ONE SMALL ZONE WITH PYRITE ALONG BEDDING PLANE - PLANE BREACHED WITH SULPHIDIZING EFFECT ON FRACTURE SURFACE, BALANCE OF INTERVAL: TRACE DISSEMINATED IDIOMORPHIC PYRITE	TR		40		98.0		
							49			52.2	4.2'	2965
				RUBBLE		TR-1		80				
				OBSCURE RUBBLE			59		V			

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HOLE NO: ML-91-54 | PROJECT: 1446 McVICAR LAKE | PAGE NO: 2 OF 5

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: JAN 22, 1991 | REF. TO CLAIM CORNER:

COORDINATES: 7+00 N. 1+25W E | DATE FINISHED: JAN 23, 1991 | SCALE: 1"=10'

INCLINATION: -58 | BEARING: 240 | TOTAL DEPTH: 289' | LOGGED BY: R.G.B

ALTERATION: SILICIFICATION	ALTERATION: CARBONATE	FRACTURING	% MINERAL VEIN	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
					DESCRIPTIVE GEOLOGY								

58.7' - 143.0' BASALT

DARK GREEN, FINE TO MEDIUM GRAINED, MASSIVE, FELDSPAR PHYRIC WITH UP TO 30% PLAGIOCLASE PHENO'S TO 2 MM, NARROW INTERVALS ARE APHYRIC, FEW FRACTURES WITH QTZ-CARB ± PY, CP; FEW WITH GREENISH SILICA ALTERAT. TRACE DISSEMINATED PY, TRACE CP ASSOCIATED WITH FRACTURES, DISSEMINATED MAGNETITE THROUGHOUT

% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED
TR		100
TR	69	100
-	79	100
TR	89	100
TR	99	100
TR	109	100
	119	

- QTZ-CARB FRACTURE 5% PYRITE
- GREEN SILICA IN FRACTURES
- CARB-CHL IN FRACTURE
- QTZ-CARB FRACTURE 1% CP

HOLE NO: ML-91-54 | PROJECT: 1446 McVICAR LAKE | PAGE NO: 3 OF 5

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: JAN 22, 1991 | REF. TO CLAIM CORNER:

COORDINATES: 7+00 N. 1+25 W E. | DATE FINISHED: JAN 23, 1991 | SCALE: 1"=10'

INCLINATION: -58 | BEARING: 240 | TOTAL DEPTH: 289' | LOGGED BY: RGB

ALTERATION: SILICIFICATION	ALTERATION: CARBONATE	FRACTURING	MINERAL % VEIN	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES Py	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
					DESCRIPTIVE GEOLOGY								
					58.7' - 143.0' BASALT CONT...		TR	129	100	BQ			
				SILICA + Py FRACTURES			TR-1	139	100				
				RUBBLE									
				SHARP			TR	149	80				
				CORETECH 56° TRUE	143.0' - 180.6' BRECCIATED BASALT. COMPRISED OF THE ABOVE GABBRO UNIT, FEW NARROW INTERBEDS OF IRONSTONE, MAGNETIC ATTRACTION DECREASES THROUGH THE INTERVAL, CARBONATE INCREASES TO MODERATE, FRAGMENTS BECOME INCREASINGLY SHEARED THROUGH INTERVAL; DISSEMINATED PYRITE THROUGHOUT, BLEBS AND RARE STRINGERS IN NARROW ZONES		1-2	159	100		159.0	5.0'	2966
				CHERT-MAGNETITE BAND			1	169	100		169.0	5.0'	2967
				CHERT - MAGNETITE BAND			1	179			179.0	5.0'	2968
												5.0'	2969
												1.6'	2971

HOLE NO: ML-91-54
CASING COLLAR ELEV.: GROUND ELEV.:
COORDINATES: 7400 N. 125W E.
INCLINATION: -58 BEARING: 240

PROJECT: 1446 McVICAR LAKE
DATE STARTED: JAN 22, 1991
DATE FINISHED: JAN 23, 1991
TOTAL DEPTH: 289'

REF. TO CLAIM CORNER:
SCALE: 1" = 10'
LOGGED BY: R.G.B.

ALTERATION | FRACTURING | % MINERAL VEIN | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED TAG #
				180.4'		
Tr-1		95	BQ	182.9	3.3'	2976
7		80		189.1	5.2' (2.8)	2977
20	189			192.5	3.4' (3.1)	2978
30		70		195.7	3.2' (3.0)	2979
20					5.8 (3.0)	2980
2	199			201.5		
2				202.5	1.0	2982
20						
3-5		60		201.2	6.8' (3.4)	2983
Tr-1	209	30		224	14.8' (5.0)	2984
Tr-1	219					
3-5		50		229	5.0' (3.5)	2985
3-5	229			231.5	2.5'	2986
TR		60		236.5	5.0'	2987
	239					

SHARP

SEAM (POOR RECOVERY) TRACE APPLE GREEN MICA

SEAM (POOR RECOVERY)

S_1 AT 55° TO CA

VEIN - 30% PYRITE

SHARP

VEIN - 20% PYRITE

APPLE GREEN MICA

SEAM

MUD (POOR RECOVERY

OBSCURE (RUBBLE)

SEAM

SHARP

← KAOLIN + FE CARB →

180.6' - 231.5' NORTH ZONE

180.6' - 183.9' SHEARED/BRECCIATED BASALT

DARK GREEN, FINE GRAINED, MODERATE TO INTENSELY FOLIATED, MYLONITIC - ROUNDED PLAGIOCLASE PHENO'S UP TO 1mm (15%), CHLORITE - SERICITE PREDOMINATE, FEW QTZ VEINLETS (1cm MAX), CALCITE FILLED FRACTURES (HYDRO - BRECCIA), WEAK PERVASIVE CARBONATE REPLACES PLAG PHENO'S, ALSO AS FRACTURE AND FOLIATION COATING LIGHT GREEN ALT ABOUT QTZ VEINLETS, MINOR FE CARBONATE, TRACE TO 1% DISSEMINATE PYRITE BLEBS, RECOVERY 90-100%.

183.9' - 198.1' SULPHIDE ZONE

DARK GREY TO GREEN, INTENSELY FOLIATED, LITHIC COMPONENT IS SERICITE - CHLORITE, FEW LESS SHEARED ZONES ARE MYLONITIC AS ABOVE, TRACE CARBONATE TRACE FE CARBONATE, ZONE HAS HIGH PERCENTAGE SILICA AS ALTERATION HINTS OF APPLE GREEN BUT NOT COMPLETELY ALTERED, PYRITE IS PROMINATE THROUGHOUT THIS INTERVAL GREATEST CONCENTRATIONS ARE IN QTZ VEINS, PRESENT AS MASSES, BLEBS, STRINGERS, DISSEMINATIONS

198.1' - 201.5' SHEARED INTERMEDIATE INTRUSIVE

GREY, MASSIVE TO WEAKLY SHEARED, FINE WHISPY SERICITE ON SHEAR PLANES, UP TO 15% MAFICS, PREDOMINATELY QUARTZ, 2% PYRITE AS ELONGATE BLEBS, DISSEMINATED IDIOMORPH'S, FEW VUGS

201.5' - 202.5' QUARTZ VEIN

WHITE, MASSIVE TO WEAKLY FOLIATED (SULPHIDES DEFINE FOLIATION, 20-30% PYRITE AS FINE GRAINED MASSES, BLEBS, STRINGERS, IDIOMORPHIC DISSEMINATIONS

SLUDGE # 2972 209
SLUDGE # 2973 219
SLUDGE # 2974 229
239

HOLE NO: ML-91-54 | PROJECT: 1446 MEDICAL LAKE | PAGE NO 5 OF 5

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: JAN 22, 1991 | REF. TO CLAIM CORNER:

COORDINATES: 7+00 N. 14+25W E | DATE FINISHED: JAN 23, 1991 | SCALE: 1"=10'

INCLINATION: -58 | BEARING: 240 | TOTAL DEPTH: 289' | LOGGED BY: RGB

ALTERATION (KAOLIN / CARBONATE)	FRACTURING	MINERAL VEIN	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED TAG #
				DESCRIPTIVE GEOLOGY								
				ALTERED ZONE DESCRIPTIONS - CONT...					BQ			
				202.5' - 224.0' SHEARED GABBRO								
				AS IN 180.6' - 183.9', INTENSELY FOLIATED, MYLONITIC		TR		90				
				3-5% DISSEMINATED PYRITE AS IDIOMORPH'S AND BLEBS								
				TRACES OF APPLE GREEN MICA			249					
			OBSCURE (RUBBLE)	224.0' - 231.5' INTERMEDIATE INTRUSIVE								
			VUGGY	AS IN 198.1 - 201.5, WEAKLY SHEARED TO MASSIVE, 3-5%		-		90				
				DISSEMINATED PYRITE								
				231.5' - 251.1 KAOLINIZED ANORTHOSITIC GABBRO			259					
				SPECKLED GREEN AND WHITE, MASSIVE, MINOR FRACTURING								
				PLAGIOCLASE COMPLETELY ALTERED TO KAOLIN, NON-		TR		100				
				MAGNETIC, 40% mm SIZED MAFIC'S, TRACE DISSEMINATED								
				PYRITE AS BLEBS, MEDIUM GRAINED			269					
				251.1' - 283.0' ANORTHOSITIC GABBRO								
				AS ABOVE, NO ALTERATION, MEDIUM GRAINED, TRACE		TR		100				
				DISSEMINATED PYRITE BLEBS								
				283.0' - 289.0' VUGGY BASALT			279					
			VUGGY	DARK GREEN GREY, MASSIVE TO WEAKLY FOLIATED, FINE								
			OBSCURE (RUBBLE)	GRAINED, VUGS REMINISCENT OF CARBONATE BRECCIA		TR		100				
				2cm QTZ VEIN ALSO CORRODED, TRACE DISSEMINATED								
				PYRITE AS BLEB								
			DIP TEST 55° TRUE	END OF HOLE - 289'								

23' SLUDGE #2425 24'

CLAIM: ML-91-55

COLLAR ELEV.: GROUND ELEV

COORDINATES: 6+00 N. 0+00 E

INCLINATION: -56° BEARING: 240°

PROJECT: 1991 BOYD TAKE

DATE STARTED: JAN 24, 1991

DATE FINISHED: JAN 26, 1991

TOTAL DEPTH: 419'

PAGE NO: 1 OF 7

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: CJW

COMMENTS: TARGET INTERSECTED AT 280'-283'. TRACE TO WEAK APPLE GREEN MICA.

AVE CORE REC'Y / HOLE 100%

ALTERATION: SILICIFICATION	ALTERATION: CARBONATE	FRACTURING	MINERAL	GEOLOGY	DESCRIPTIVE GEOLOGY	% PY SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
					0.0' - 27.0' OVERBURDEN CASING REMAINS.				BW CASING			
					27.0' - 120.1' BASALT MEDIUM TO DARK GREEN, MEDIUM TO COARSE GRAINED, MASSIVE, WEAK, MM-SCALE QUARTZ-FELDSPAR VNLTS AND WHISPY NETWORKS. VERY WEAK CARBONATE VNLTS AND EPIDOTE ALTERATION ALONG SOME FRACTURES. TRACE DISSEMINATED PYRITE AND CHALCOPYRITE, GENERALLY ASSOCIATED WITH QUARTZ-FELDSPAR	NIL	29		BQ			
						NIL	39	100				
						NIL	49	100				
						NIL	59	100				

MINING RECORDER
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MINING DIVISION
91 APR 4 P2:32

ML-91-55

PROJECT: 1446 McVICAR LAKE

PAGE NO: 2 OF 7

COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: JAN 24, 1991

REF. TO CLAIM CORNER:

ORDINATES: 6+00 N. 0+00 E

DATE FINISHED: JAN 26, 1991

SCALE: 1"=10'

ELEVATION: -56°

BEARING: 240°

TOTAL DEPTH: 419'

LOGGED BY: CJW

ALTERATION: EPIDOTE	SILICIFICATION	CARBONATE	FRACTURING	MINERAL QTZ VN	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
						27.0'-120.1' BASALT CON'T...		NIL	69	100	BQ			
								TR	79	100				
								TR TR CPY	89	100				
								TR	99	100				
								TR	109	100				
								TR	119	100				

...LE NO: ML-91-55	PROJECT: 1446 McVICAR LAKE	PAGE NO: 3 OF 7	
...COLLAR ELEV.:	GROUND ELEV.	DATE STARTED: JAN 24, 1991	REF. TO CLAIM CORNER:
...RDINATES: 6+00 N. 0+00 E		DATE FINISHED: JAN 26, 1991	SCALE: 1"=10'
...ATION: -56°	BEARING: 240°	TOTAL DEPTH: 419	LOGGED BY: CJW

COMMENTS:

AVE CORE REC'Y / HOLE

ALTERATION: CHLORITE	CARBONATE	FRACTURING	MINERAL (QTZ VN)	GEOLOGY	DESCRIPTIVE GEOLOGY	% SULPHIDES (PY)	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED TAG #
										120.1		
				SHARP CNT @ 35° TO CA	120.1' - 128.2' BRECCIATED BASALT PARK GREEN, FINE GRAINED, WEAKLY TO MODERATELY BRECCIATED AND INFILLED WITH CARBONATE VNLTS. AND MASSES. MINOR QUARTZ BLEBS AND LOZENGES. CHLORITE SELVAGES AND CM-SCALE VNS. ASSOCIATED WITH SOME CARBONATE VNS/VNLTS. TRACE PYRITE.	TR		100	BQ	124.1	4.0'	2988
				SHARP CNT @ 25° TO CA						128.2	4.1'	2989
							129					
					128.2' - 177.3' BASALT AS IN 27.0'-120.1' WITH A FINE GRAINED UNIT FROM 129.9'-133.3', TRACE PYRITE THROUGHOUT WHOLE SECTION.	TR		100				
							139					
						TR		100				
				DIP TEST @ 56°			149					
						TR		100				
							159					
						TR		100				
							169					
						TR		100				
				SHARP CNT @ 45° TO CA	177.3' - 257.3' BASALT DARK GREEN, FINE TO MEDIUM GRAINED, MASSIVE TO WEAKLY FOLIATED @ 40° TO CA. NUMEROUS MM-SCALE, QUARTZ/FELDSPAR		179					

HOLE NO: ML-91-55

CASING COLLAR ELEV.: GROUND ELEV.

COORDINATES: 6+00 N. 0+00 E

INCLINATION: -56° BEARING: 240°

PROJECT: 1446 McVICAR LAKE

DATE STARTED: [illegible] 1991

DATE FINISHED: [illegible] 1991

TOTAL DEPTH: [illegible]

PAGE NO: 4 OF 7

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: CJW

ALTERATION: EPIDOTE	ALTERATION: SILICIFICATION	ALTERATION: CARBONATE	FRACTURING	MINERAL %	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
						177.3' - 257.3' BASALT: CONT... +/- CARBONATE, +/- EPIDOTE VEINLETS AND WHISPY NETWORKS. PERCENTAGE OF EPIDOTE AND CARBONATE INCREASE DOWN HOLE. TRACE TO 1% CHALCOPYRITE AND PYRITE		TR	189	100	BQ				
								TR CPY TR	199	100				
								TR	209	100				
								TR CPY TR	219	100				
								TR	229	100				
								TR	239					

HOLE NO. ML-91-55 | PROJECT: 1446 McVICAR LAKE | PAGE NO: 5 OF 7

CASING COLLAR ELEV.: | GROUND ELEV. | DATE STARTED: JAN 24 1991 | REF. TO CLAIM CORNER:

COORDINATES: 6+00 N. 0+00 E | DATE FINISHED: JAN 26 1991 | SCALE: 1"=10'

INCLINATION: -56° | BEARING: 240 | TOTAL DEPTH: 415' | LOGGED BY: CJW

ALTERATION: SERICITE | EPIDOTE | SILICIFICATION | CARBONATE | FRACTURING | MINERAL QTZ VN | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

177.3'-257.3' BASALT

CONT...

257.3'-280.4' BRECCIATED BASALT

DARK GREEN, FINE TO MEDIUM GRAINED, WEAKLY SHEARED, MODERATELY TO STRONGLY BRECCIATED AND INFILLED WITH CARBONATE, MINOR MM-SCALE QUARTZ LOZENGES AND MINOR DISSEMINATED RED HEMATITE STAINING. TR-2% DISSEMINATED PYRITE

GRADATIONAL CNT.

280.4'-321.0' NORTH ZONE

280.4'-288.8' SHEARED/SILICIFIED BASALT

MEDIUM GREEN, FINE GRAINED, MODERATELY SHEARED @ 65-70° TO CA. WEAK TO MOD. MM-CM-SCALE CARBONATE VNLTS. AND MASSES. WEAKLY TO MODERATELY SILICIFIED AND WEAK SERICITIC ALTERATION ALONG SHEAR PLANES. TRACE PY

SHARP CNT @ 70° TO CA

GRADATIONAL CNT

288.8'-294.8' STRONGLY SHEARED BASALT

MEDIUM TO LIGHT YELLOWISH GREEN, FINE GRAINED, STRONGLY TO INTENSELY SHEARED @ 70° TO CA. QUARTZ VN. FROM 291.9'-292.6' AND TWO VNS FROM 293.9'-294.9'. TR-2% DISS. PY ALONG VN MARGINS, TRACE IN VEIN TRACE-2% IN BASALT - WEAK TO MODERATE SERICITIC ALTERATION, VERY WEAK GREEN MICA

MINOR GREEN MICA

GRADATIONAL CNT.

CORE TECH SI=300/53° (n=3) SLICKENSIDES = 031/42° DIP TEST @ 56°

% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED TAG #
TR CPY TR	249	100	BQ	252.3		
TR				257.3	5.0	2990
TR	259	100		262.0	4.7	2991
TR 2				267.0	5.0	2992
	269			272.0	5.0	2993
TR		100		276.0	4.0	2994
	279			280.4	4.4	2995
TR		100		284.8	4.4	2996
	289			288.8	4.0	2997
TR 2		100		291.9	3.1	2998
				292.6	0.7	2999
				294.8	2.2	3000
TR 1	299			299.0	4.2	3001

HOLE NO. ML-91-55
CASING COLLAR ELEV.: GROUND ELEV
COORDINATES: 6400 N. 0400 E
INCLINATION: -56° BEARING: 240°

PROJECT: 1446 McVICAR LAKE
DATE STARTED: JAN 24, 1991
DATE FINISHED: JAN 26, 1991
TOTAL DEPTH: 419'

PAGE NO: 6 OF 7
REF. TO CLAIM CORNER:
SCALE: 1"=10'
LOGGED BY: CJW

ALTERATION: GREEN MICA | SILICIFICATION | CHLORITE | CARBONATE
FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

294.8'-305.0' SHEARED/BRECCIATED BASALT
DARK GREEN, FINE GRAINED, WEAKLY TO MODERATELY SHEARED AND BRECCIATED WITH CARBONATE INFILLING. MINOR WISPY BANDS OF MAGNETITE @ 305.0'. TRACE-1% PYRITE
SHARP CNT @ 70° TO CA

305.0'-309.4' SHEARED INTERMEDIATE INTRUSIVE
MEDIUM YELLOWISH GREY, FINE TO MEDIUM GRAINED, MODERATELY SHEARED @ 50° TO CA. WEAKLY SILICIFIED WITH MM-CM SCALE QUARTZ VNS. AND TR-3% PYRITE.
SHARP CNT @ 60° TO CA

GRADATIONAL CNT

309.4'-316.0' SHEARED/BRECCIATED BASALT
AS IN 294.8'-305.0' WITH A 20cm WIDE FINE GRAINED, GRANITIC DYKE. TRACE-1% PYRITE
GRADATIONAL CNT

316.0'-321.0' STRONGLY SHEARED BASALT (CHLORITE SCHIST)
DARK GREEN, FINE GRAINED, STRONGLY SHEARED @ 50° TO CA. UNIT IS MODERATELY TO STRONGLY CHLORITIC AND WEAKLY TO MOD. CARBONATIZED. TRACE GREEN MICA. TRACE PYRITE
GRADATIONAL CNT

321.0'-325.8' BRECCIATED/SHEARED BASALT
DARK GREEN, FINE GRAINED, MODERATELY TO STRONGLY BRECCIATED AND SHEARED @ 45°-50° TO CA. MODERATE CARBONATE INFILLING. TRACE PYRITE
GRADATIONAL CNT

325.8'-328.7' BRECCIATED/SHEARED ANORTHOSITIC GABBRO
MEDIUM GREEN, FINE TO MEDIUM GRAINED, WEAKLY TO MODERATELY BRECCIATED AND SHEARED @ 50° TO CA. MOD CARBONATE INFILLING. TRACE PYRITE.

328.7'-419.0' ANORTHOSITIC GABBRO
MEDIUM GREY-GREEN, MASSIVE, MEDIUM TO COARSE GRAINED, TRACE MM-SCALE CARBONATE VNLTS. NO SULPHIDES NOTED.

% PY SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED TAG #
			BQ	294.0		
TR				302.0	3.0'	3002
3		100		305.0	3.0'	3003
TR					4.4'	3004
3	309			309.4		
TR				312.0	2.6'	3005
1		100		316.0	4.0'	3006
TR					5.0	3007
TR	319			321.0		
TR					4.8	3008
		100		325.8		
TR				328.7	2.9	3009
	329					
NIL		100		333.7	5.0	3010
	339					
NIL		100				
	349					
NIL		100				
	359					

NO. ML-91-55

G COLLAR ELEV.: GROUND ELEV

DINATES: 6+00 N. 0+00 E

NATION: 56° BEARING: 240°

PROJECT: 1446 McVICAR LAKE

DATE STARTED: JAN 24, 1991

DATE FINISHED: JAN 26, 1991

TOTAL DEPTH: 419'

PAGE NO: 7 OF 7

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: CJW

ALTERATION	CARBONATE	FRACTURING	MINERAL QTZ VN	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
					328.7'- 419.0' ANORTHOSITIC GABBRO CON'T...					BQ			
							NIL		100				
								369					
							NIL		100				
								379					
							NIL		100				
								389					
							NIL		100				
								399					
							NIL		100				
								409					
							NIL		100				
					DIP TEST = 56° END OF HOLE			419					

HOLE NO. ML-91-56

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: 6+45 N. 0+00 E.

INCLINATION: -55° BEARING: 240°

PROJECT: 1446 McVicar Lake

DATE STARTED: JAN 26, 1991

DATE FINISHED: JAN 27, 1991

TOTAL DEPTH: 369'

PAGE NO: 1 OF 7

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: CJW

COMMENTS: TARGET INTRSECTED AT 281' - 286'. POORLY MINERALIZED.

AVE CORE REC'Y / HOLE +90%.

ALTERATION: EPIDOTE	SILICIFICATION	CARBONATE	FRACTURING	MINERAL: QTZ VN	GEOLOGY	DESCRIPTIVE GEOLOGY	% SULPHIDES: PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
						0.0' - 20.0' OVERBURDEN CASING REMAINS				BW			
					RUBBLE	20.0' - 133.0' BASALT DARK GREEN, MEDIUM TO FINE GRAINED, MASSIVE WITH OCCASIONAL MM-SCALE QUARTZ/FELDSPAR +/- CARBONATE AND MINOR EPIDOTE VNLTS. TRACE PYRITE AND CHALCOPYRITE	NIL	29	100	BQ			
							NIL	39	100				
							NIL	49	100				
					RUBBLE		NIL	59	90				
					RUBBLE								

MINING RECORDER
PATRICIA
MINING DIVISION
91 APR 4 P2:33

HOLE NO. ML-91-56
CASING COLLAR ELEV.: GROUND ELEV.:
COORDINATES: 6+45 N. 0+00 E.
INCLINATION: -55° BEARING: 240°

PROJECT: 1446 McVICAR LAKE
DATE STARTED: JAN 26, 1991
DATE FINISHED: JAN 27, 1991
TOTAL DEPTH: 369'

REF. TO CLAIM CORNER:
SCALE: 1"=10'
LOGGED BY: CJW

ALTERATION: EPIDOTE	ALTERATION: SILICIFICATION	ALTERATION: CARBONATE	FRACTURING	MINERAL: QTZ VN	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES: PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
					RUBBLE	20.0' - 133.0' BASALT CON'T...		NIL	69	100	BQ			
								TR	79	100				
								TR	89	100				
								TR	99	100				
								TR	109	100				
				QTZ VN	QUARTZ VN WITH UP TO 5% CPY			TR 5% CPY TR	119		V			

-80
-90
-100
-110

HOLE NO. ML-91-56
CASING COLLAR ELEV.: GROUND ELEV.:
COORDINATES: 6445 N. 0100 E.
INCLINATION: -55° BEARING: 240°

PROJECT: 1446 McVICAR LAKE
DATE STARTED: JAN 26, 1991
DATE FINISHED: JAN 27, 1991
TOTAL DEPTH: 369'

REF. TO CLAIM CORNER:
SCALE: 1"=10'
LOGGED BY: CJW

SECTION	ALTERATION: SILICIFICATION	ALTERATION: CARBONATE	FRACTURING	MINERAL: QTZ VN	GEOLOGY
120					
					GRADATIONAL CNT
150					DIP TEST @ 53°
160					
170					INCREASE IN QTZ/FELD % - CARB. VNLTS

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

20.0' - 133.0' BASALT

CON'T...

133.0' - 154.0' RUBBLY / BRECCIATED BASALT

MEDIUM TO DARK GREEN, FINE TO MEDIUM GRAINED, VERY RUBBLY AND BROKEN-UP SEAM FROM 137.0' - 142.0' AND WEAKLY BRECCIATED THROUGH REST OF UNIT. CARBONATE MASSES AND VNLTS OCCUPY MATRIX OF BRECCIA AND WAS PROBABLY DISSOLVED OUT OF RUBBLY MATERIAL. TRACE PYRITE.

154.0' - 269.0' BASALT

AS IN 20.0' - 133.0' BUT WITH AN INTERVAL FROM 154.0' - 192.0' OF MODERATE, MM-SCALE, CROSS-CUTTING QUARTZ/FELDSPAR +/- CARBONATE VNLTS. NARROW 1-3mm BLEACHED HALOES ENVELOPING SOME VNLTS. GRAIN SIZE BECOMES COARSER TOWARDS BASE OF UNIT. TRACE PYRITE.

% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
TR		100	BQ			
	129					
TR		90				
	139					
TR		90				
	149					
TR		100				
	159					
TR		100				
	169					
TR		100				
	179					

HOLE NO. ML-91-56 | PROJECT: 1446 McVICAR LAKE | PAGE NO 4 OF 7

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: JAN 26, 1991 | REF. TO CLAIM CORNER:

COORDINATES: 6+45 N. 0+00 E. | DATE FINISHED: JAN 27, 1991 | SCALE 1"=10'

INCLINATION: -55° | BEARING: 240° | TOTAL DEPTH: 369' | LOGGED BY: CSW

SECTION	ALTERATION: EPIDOTE	SILICIFICATION	CARBONATE	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	MA
180							DESCRIPTIVE GEOLOGY		PY						
							154.0' - 269.0' BASALT					BQ			
							CON'T...		TR		100				
										189					
									TR		100				
										199					
									NIL		100				
										209					
									NIL		100				
220										219					
									NIL		100				
										229					
230									TR		100				
										239					

HOLE NO. ML-91-56
CASING COLLAR ELEV.:
COORDINATES: 6+45 N. 0+00 E.
INCLINATION: -55° BEARING: 240°
GROUND ELEV.:

PROJECT: 1446 McVicar Lake
DATE STARTED: JAN 26, 1991
DATE FINISHED: JAN 27, 1991
TOTAL DEPTH: 369'

PAGE NO. 5 OF 7
REF. TO CLAIM CORNER:
SCALE: 1"=10'
LOGGED BY: CJW

ALTERATION | SECTION | EPIDOTE | SILICIFICATION | CARBONATE | FRACTURING | % MINERAL QTZ | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

154.0'-269.0' BASALT
CON'T...

269.0'-281.6' BRECCIATED BASALT
DARK GREEN, FINE GRAINED, WEAKLY TO MODERATELY BRECCIATED WITH CARBONATE INFILLING. WEAKLY SHEARED. TRACE TO 1% PYRITE, TRACE CHALCOPYRITE

GRADATIONAL CNT.

281.6'-286.7' NORTH ZONE

281.6'-286.7' SHEARED BASALT
LIGHT TO MEDIUM GREEN, FINE GRAINED, MODERATELY TO STRONGLY SHEARED @ 60° TO CA. CM-SCALE PATCHES/VNS. OF CREAM COLOURED FELDSPAR ASSOCIATED WITH MINOR MM-SCALE QUARTZ VEINS. 5-10MM PATCHES AND MM-SCALE VNLTS OF AN OCHRE-COLOURED FE-CARB ARE NOTED. TRACE TO 1% PYRITE

SHARP CNT @ 60° TO CA.

FE CARB

SHARP CNT @ 60° TO CA

286.7'-304.2' BRECCIATED BASALT
AS IN 269.0'-281.6' WITH ONLY TRACE PYRITE

DIP TEST 53°

% PY SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED TAG #
TR		100	BQ			
	249					
TR		100				
	259					
TR		100		264.0		
				269.0	5.0'	3011
TR	269	100		273.5	4.5'	3012
				277.6	4.1'	3013
TR CPY	279			281.6	4.0'	3014
TR 1		100		286.7	5.1'	3015
TR	289			291.7	5.0'	3016
TR		100		296.7	5.0'	3017
	299				4.0'	3018

HOLE NO. ML-91-56
CASING COLLAR ELEV.:
GROUND ELEV.:
COORDINATES: 6+45 N. 0+00 E.
INCLINATION: -55°
BEARING: 240°

PROJECT: 1446 McVICAR LAKE
DATE STARTED: JAN 26, 1991
DATE FINISHED: JAN 27, 1991
TOTAL DEPTH: 369'

PAGE NO: 6 OF 7
REF. TO CLAIM CORNER:
SCALE: 1"=10'
LOGGED BY: CJW

COMMENTS:

AVE CORE REC'Y / HOLE

SECTION: 300, 310, 320, 330, 340, 350

ALTERATION: HEMATITE ALT., SILICIFICATION, CARBONATE

FRACTURING

MINERAL: QTZ VN

GEOLOGY

SHARP CNT @ 60° TO CA

RUBBLE

GRADATIONAL CNT

RUBBLY

BROKEN CNT

DECREASE BRECCIATION/SHEARING

GRADATIONAL CNT

DESCRIPTIVE GEOLOGY

286.7'-304.2' BRECCIATED BASALT

CON'T...

304.2'-318.0' SHEARED BASALT

LIGHT TO MEDIUM-DARK GREEN, FINE GRAINED WEAKLY TO MODERATELY SHEARED VARYING FROM 0-60° TO CA (0° @ 31[illegible]') UNIT CONTAINS WEAK TO MODERATE HEMATITE STAINING. BETWEEN 308.5'-318.0' UNIT IS RUBBLY AND BROKEN-UP. MINOR CARBONATE ALTERATION ASSOC. WITH THIS SECTION. TRACE PYRITE.

318.0'-323.5' BRECCIATED/SHEARED BASALT

AS IN 269.0'-281.6' BUT WITH MORE CARBONATE INFILLING BETWEEN BASALT FRAGMENTS. WEAK QUARTZ VEINNIG ASSOC. WITH CARBONATE. SOME QUARTZ APPEARS TO HAVE BEEN INCORPORATED INTO CARBONATE DURING SUBSEQUENT SHEARING CARBONATIZATION. NO SULPHIDES NOTED.

323.5'-333.5' BRECCIATED/SHEARED ANORTHOSITIC GABBRO

MEDIUM GREEN, FINE TO MEDIUM GRAINED, WEAKLY BRECCIATED AND INFILLED WITH CARBONATE. WEAKLY SHEARED @ 55-60° TO CA. SHEARING AND BRECCIATION DECREASE DOWNHOLE. NO SULPHIDES NOTED.

333.5'-369.0' ANORTHOSITIC GABBRO

MEDIUM GREY-GREEN, MEDIUM TO COARSE GRAINED, MASSIVE WITH MINOR MM-CM-SCALE CARBONATE VNS. NO SULPHIDES NOTED.

% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED TAG #
				296.7 / 304.7		
TR		100	BQ	304.2	3.5'	3019
TR	309			308.5	4.3'	3020
TR		50		318.0	9.5' (4.7')	3021
TR	319	60		323.5	5.5' (2.0')	3022
				329.0	5.5' (5.0')	3023
NIL	329	100		333.5	4.5'	3024
NIL	339	100				
NIL	349	100				
	359					

HOLE NO. ML-91-55
CASING COLLAR ELEV.:
GROUND ELEV.:
COORDINATES: 6+45 N. 0+00 E.
INCLINATION: -55° BEARING: 240°

PROJECT: 1446 McVICAR LAKE
DATE STARTED: JAN 26, 1991
DATE FINISHED: JAN 27, 1991
TOTAL DEPTH: 369'

REF. TO CLAIM CORNER:
SCALE: 1"=10'
LOGGED BY: CJW

SECTION	ALTERATION: CARBONATE	FRACTURING	MINERAL: QTZ VN	GEOLOGY	COMMENTS / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES: PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
					332.5'-369.0' ANORTHOSITIC GABBRO CON'T...		NIL		100	BQ			
					END OF HOLE			369					

DRILL NO. ML-91-57 | PROJECT: 1446 MCVICAR LAKE | PAGE NO 1 OF 6

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: JAN 29, 1991 | REF. TO CLAIM CORNER:

COORDINATES: 7400 N. 14000 E | DATE FINISHED: JAN 30, 1991 | SCALE: 1" = 10'

INCLINATION: -55° | BEARING: 240° | TOTAL DEPTH: 319' | LOGGED BY: R.G. BONNER

COMMENTS: TARGET INTERSECTED AT 212'-257'. TRACE APPLE GREEN MICA, NARROW MINERALIZED ZONE.

AVE CORE REC'Y / HOLE +75%

SECTION	ALTERATION: SILICIFICATION	ALTERATION: CARBONATE	FRACTURING	MINERAL VEIN	GEOLOGY	DESCRIPTIVE GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
						0.0' - 6.0' OVERBURDEN CASING REMAINS	Py			BW			
					RUBBLE	6.0' - 72.5' (APPROX) PORPHYRITIC BASALT DARK TO LIGHT GREEN GREY, FINE TO MED GRAINED, MASSIVE PHYRIC WITH 25% FINE IDIOMORPHIC PLAGIOCLASE PHENOS METRE ZONES WITH 1% GREENISH PLAG PHENO'S (IDIOMORPH TO 0.5 CM - RANDOMLY ORIENTED, MODERATE SILICIFICATION FROM 27-45', SILICA VEINLETS AT 40° TO CA, QTZ-CARB FRACTURES PARALLEL TO CA, TRACE TO 1% PYRITE AS DISSEMINATED BLEBS, STRINGERS, FRACTURE FILLS, TRACE PYRRHOTITE, CHALCO?	Tr-1	9	20	BQ			
							Tr-1	19	80				
					RUBBLE		Tr-1	29	70				
20					RUBBLE		Tr Tr Py Tr Cp?	39	90				
40					RUBBLE		Tr Tr Cp Tr Py	49	100				
50							Tr	59	100				

INCREASING SILICIFICATION

MINING RECORDER
PATRICIA
MINING DIVISION
91 APR 4 P2:33

HOLE NO. ML-91-57 | PROJECT: 1446 - McVICAR LAKE | PAGE NO. 2 OF 6

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: JAN 29, 1991 | REF. TO CLAIM CORNER:

COORDINATES: 7400 N. 1400 E. | DATE FINISHED: JAN 30, 1991 | SCALE: " = 10 '

INCLINATION: -55° BEARING: 240° | TOTAL DEPTH: 319' | LOGGED BY: R. G. B.

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

6.0' - 72.5' (APPROX) PORPHYRITIC BASALT
CONT...

OBSCURE (RUBBLE)

72.5' - 94.0' (APPROX) IRONSTONE

S_0 @ 60° TO CA

GREEN TO BLACK, APHANITIC, 2-5 CM BEDS, CHERTY MAGNETITE BEDS INTERCALATED WITH VOLCANIC MUDSTONE (FERRUGINOUS). FRACTURING IS MODERATE - UNIT REACTS BRITTLE, HINTS OF ALTERATION, MINOR FE-CARBON. FRACTURES, OPENINGS, BE. PLANES ARE PYRITE - SULPHIDE IS INTRODUCED INTO PERMEABLE ROCK - MAGNETITE DOES NOT APPEAR REPLACE. ENTIRE LENGTH IS RUBBLE, VUGGY ZONES - SULPHIDE REMOVAL?, FEW GARNET RICH INTERBEDS

RUBBLE (POOR RECOVERY)

HAND SAMPLE #1

S_0 @ 60° TO CA

UP (GRADED BEDS)

OBSCURE (RUBBLE)

94.0' - 134.0' BASALT

DARK GREEN, APHANITIC, MASSIVE, FEW FRACTURES WITH MINOR CARBONATE, FEW SILICA VEINLETS, TRACE PYRITE WITH RARE PYRRHOTITE AS FRACTURE COATINGS AND RARE DISSEMINATIONS, NONDESCRIPT

% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED TAG #
-		90	BQ			
	69			72.5		
1-2		70			6.5' (4.0)	3025
	79			79.0		
2-5		40			10.0' (4.0)	3026
	89			89.0		
1-2		90			5.0'	3027
-				99.0		
	99					
TR Tr Po		100				
	109					
TR Tr Po		100				
	119		V			

HOLE NO: ML-91-57 | PROJECT: 1446 - McVicar Lake | PAGE NO: 3 OF 6

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: JAN 29, 1991 | REF. TO CLAIM CORNER:

COORDINATES: 7+00 N. 1+00W E. | DATE FINISHED: JAN 30, 1991 | SCALE: 1" = 10'

INCLINATION: -55 | BEARING: 240 | TOTAL DEPTH: 319' | LOGGED BY: R.G.B.

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

94.0' - 134.0' BASALT

CONT...

SHARP

134.0' - 185.3' BASALT

DARK GREEN, FINE TO MEDIUM GRAINED, MASSIVE, GREENISH SILICA VEINLETS, MINOR QTZ-CARB FRACTURE FILLS, MAGNETIC, FELDSPAR PHYRIC WITH 10-20% IDIOMORPHIC PLAGIOCLASE (1-3 m), TRACE FRACTURE RELATED PYRITE RARE CHALCOPYRITE

CORE TECH 55° TRUE

ALTERATION: CARBONATE	FRACTURING	MINERAL VEIN	GEOLOGY	% SULPHIDES: PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
				Tr		100	BQ			
				Tr Cp	129					
				Tr		100				
					139					
				Tr		100				
					149					
				Tr		100				
				Tr Cp	159					
				Tr		100				
				Tr Cp	169					
				-		100				
					179					

HOLE NO: ML-91-57 | PROJECT: 1446 - McVICAR LAKE | PAGE NO: 4 OF 6

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: JAN 29, 1991 | REF. TO CLAIM CORNER:

COORDINATES: 7+00 N. 1+00 W E. | DATE FINISHED: JAN 30, 1991 | SCALE: 1" = 10'

INCLINATION: -55 | BEARING: 240 | TOTAL DEPTH: 319' | LOGGED BY: R.G.B.

ALTERATION: APPLE GREEN MICA | FE-CARBONATE | SERICITE | CARBONATE | FRACTURING | % MINERAL VEIN | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED TAG #
Py			BQ			
Tr		100				
	189					
Tr-1		100		196.0		
	199			201.0	5.0'	3028
Tr-1		100		206.0	5.0'	3029
	209			209.1	3.1'	3030
Tr-1				212.6	3.5'	3031
1-3		100		216.0	3.4'	3032
	219			220.4	4.4'	3033
1-3						
5-40		100		225.1	4.7'	3034
2-5				229	3.9'	3035
	229					
2-5				233.0	4.0'	3036
1-3		100		236.9	3.9'	3037
	239		V	239	2.1'	3038

134.0' - 185.3' BASALT

CONT...

GRADATIONAL

185.3' - 212.6' BRECCIATED BASALT

AS ABOVE WITH CARBONATE FILLED FRACTURES COMPRISING 20% OF CORE, BRECCIATION IS ALIGNED WITH WEAK FOLIATION, FRAGMENT SUPPORTED, ANGULAR FRAGMENTS TO 5 CM, NARROW ZONES ARE MYLONITIC, FEW NARROW (<5cm) BANDS OF MAGNETITE IRONSTONE, TRACE TO 1% DISSEMINATED PYRITE BLEBS OFTEN FRACTURE RELATED

S_1 @ 015/49

S_1 @ 011/38

S_1 @ 360/43

MYLONITIC

MAGNETITE IRONSTONE

INCREASING FOLIATION

206 - 209.1 - FRAGMENTS ARE INTENSELY FOLIATED, PYRITE CONTENT INCREASES TO 1-2%

MAGNETITE IRONSTONE

SHARP

S_1 @ 60° TO CA

212.6' - 256.8' NORTH ZONE

QTZ VEIN (2 cm)

SHARP (MUD SEAM)

212.6' - 220.4' SHEARED GABBRO (?)

LIGHT TO MEDIUM GREEN GREY, APHANITIC TO FINE GRAINED, SHEARED TO WELL FOLIATED, MYLONITIC CHLORITE + SERICITE, QTZ LENSOIDS, CARBONATE BRECCIA FILLS, 1-3% PYRITE AS BLEBS AND DISSEMINAT.

SHARP

VEINS @ 60° TO CA

S_1 @ 60° TO CA

220.4' - 225.1' SULPHIDE ZONE

LIGHT GREY, APHANITIC, SHEARED, CHLORITE - SERICITE AS DISCRETE WHISPY BANDS, WHITE QTZ CLUSTERS, SILICA FLOODING (?), APPEARS TO BE ALTERED EQUIVALENT OF ABOVE UNIT, 5 - 40% PYRITE AS DISSEMINATIONS AND BLEBS, MASSES, VUGGY - SULPHIDE REMOVAL, HEMATITE BLEBS

SHARP @ 50° TO CA
4cm INTRUSIVE

VUGGY

RUBBLY

HOLE NO. ML-91-57 | PROJECT: 1446 - McLICAR LAKE | PAGE NO 5 OF 6

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: JAN 29, 1991 | REF. TO CLAIM CORNER:

COORDINATES: 7400 N. 1400 W E | DATE FINISHED: JAN 30 1991 | SCALE: 1" = 10'

INCLINATION: -55 | BEARING: 240 | TOTAL DEPTH: 319' | LOGGED BY: R.G.B

ALTERATION: SERICITE | CARBONATE | FRACTURING | % MINERAL VEIN | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

RUBBLE

BRECCIATED?

OBSCURE (RUBBLE)

COMPETENT CONTACT

INTERMEDIATE DYKE

ANORTHOSITE (30 cm)

DYKE (INT)

MUD (FAULT?)

VUGGY AFTER CARBONATE

225.1' - 233.0' SHEARED INTERMEDIATE INTRUSIVE

LIGHT GREY GREEN TO YELLOW, FINE GRAINED, WEAK TO MODERATELY FOLIATED, CHLORITIC FRACTURES, SERICITE ALTERATION FRACTURE RELATED CARBONATE, QTZ VEINS WITH MINOR PYRITE, QTZ LENSOIDS + BLEBS (FROM VEINS?), 3-5% PYRITE AS DISSEMINATED BLEBS, FOLIATION PARALLEL SMEARS

233.0' - 249'(APX) SHEARED GABBRO (APPLE GREEN MICA ZONE)

GREY TO WHITE, APHANITIC, INTENSELY FOLIATED, WHITE MYLONITIC STREAKS (LENSOIDS), SERICITE - APPLE GREEN MICA - BROWNISH YELLOW MICAS ARE PERVASIVE, TRACE CARBONATE MINOR QTZ VEINLETS - APPLE GREEN MICA IS INTIMATE WITH VEINS, 1-3% DISSEMINATED PYRITE BLEBS, VUGGY BELOW 2: FOLIATED AND LINEATED (NO MEASUREMENT REQUIRED)

249(APPROX) - 256.8(APPROX) SHEARED GABBRO

DARK GREEN, APHANITIC WITH FEW FINE GRAINED ZONES (PH 10) INTENSE TO MODERATELY FOLIATED, CHLORITIC, TRACE TO 1% PYRITE

256.8' (APPROX) - 319.0 ANORTHOSITIC GABBRO

GREEN TO WHITE, MEDIUM GRAINED, 1-5 mm IDIOMORPHIC TO ROUND PLAGIOCLASE PHENOCRYSTS - UP TO 70%, MASSIVE TO WEAKLY FOLIATED, FRACTURED, VUGGY ZONES, WEAK TO INTENSE SERICITE ALTERATION, CARBONATE INCREASES TO MODERATE AND PERVASIVE TO END OF HOLE

% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT	ESTIMATED TAG #
2-5		10	BQ	249	10.0' (1.0')	3039
Tr-1	249	30		256.8	7.8 (3.0)	3040
Tr	259	100		261.8	5.0'	3041
Tr		90				
Tr	269	100				
Tr	279	100				
-	289	80				
	299					

HOLE NO. [illegible]-91-57

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES 7+00 N. 1+00W E

INCLINATION: -55° BEARING: 240°

PROJECT: 1446 - [illegible] LAKE

DATE STARTED: JAN 25/91

DATE FINISHED: JAN 30/91

TOTAL DEPTH: 319'

PAGE NO 6 OF 6

REF. TO CLAIM CORNER

SCALE: 1" = 10'

LOGGED BY R.G.B.

SECTION	ALTERATION	CARBONATE	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
300'						256.8' - 319' ANORTHOSITIC GABBRO		Py			BQ			
						CONT...		Tr		100				
310'									309					
								Tr		100				
						DIP TEST -55°								
320'						END OF HOLE - 319'								

HOLE NO. ML-91-58

CASING COLLAR ELEV.:

GROUND ELEV.:

COORDINATES: 6+50 N. 0+80 E.W

INCLINATION: -55°

BEARING: 240°

PROJECT: 1446 McVICAR LAKE

DATE STARTED: JAN 31, 1990

DATE FINISHED: FEB 1, 1991

TOTAL DEPTH: 269'

PAGE NO: 1 OF 5

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: CJW

COMMENTS: TARGET INTERSECTED 199'-221'. WEAK, NARROW MINERALIZATION.

AVE CORE REC'Y / HOLE +90%

SECTION	ALTERATION: SILICIFICATION	ALTERATION: EPIDOTE	ALTERATION: CARBONATE	FRACTURING	MINERAL QTZ VN	GEOLOGY	DESCRIPTIVE GEOLOGY	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
							0.0'-15.5' OVERBURDEN CASING REMAINS				BW			
							15.5'-109.0' BASALT DARK GREEN, FINE GRAINED, MASSIVE, WEAKLY FRACTURED WITH OCCASIONAL MM-SCALE QUARTZ/FELDSPAR VNLTS. WITH UNITS FROM 41.0'-50.0' AND 74.0'-86.0' MOSTLY CARBONATE MINOR EPIDOTE VNLTS AND BANDS. TRACE PYRITE.	NIL	19	100	BQ			
								NIL	29	100				
								NIL	39	100				
								TR	49	100				
								NIL	59	100				

MINING RECORDER
PATRICIA
MINING DIVISION
91 APR 4 P2:33

HOLE NO: ML-91-58
CASING COLLAR ELEV.:
GROUND ELEV.:
COORDINATES: 6+50 N. 0+80 E/W
INCLINATION: -55° BEARING: 240°

PROJECT: 1446 McVICAR LAKE
DATE STARTED: JAN 31, 1991
DATE FINISHED: FEB 1, 1991
TOTAL DEPTH: 269'

PAGE NO: 2 OF 5
REF. TO CLAIM CORNER:
SCALE: 1"=10'
LOGGED BY: CJW

ALTERATION: SILICIFICATION | EPIDOTE | CARBONATE
FRACTURING
MINERAL: QTZ VN
GEOLOGY
COMMENTS:
AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

% PY SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP INT.	ESTIMATED
			BQ			
NIL		100				
	69					
TR		100				
	79					
TR		100				
	89					
TR		100				
	99					
TR		100				
	109					
TR		100				
	119					

15.5'-109.0' BASALT
CON'T...

109.0'- 124.5' BRECCIATED BASALT

DARK GREEN, FINE GRAINED, BRECCIATED WITH CARBONATE INFILLING, FRAGMENTS ARE MASSIVE WITH NO ROTATION NOTED. SOME AREAS (109.0'-110.5') CONTAIN WEAK PERVASIVE CARBONATE. TRACE PYRITE

GRADATIONAL CNT.

HOLE NO: ML-91-58 | PROJECT: 1446 McVICAR LAKE | PAGE NO: 3 OF 5

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: JAN 31, 1991 | REF. TO CLAIM CORNER:

COORDINATES: 6+50 N. 0+80 E/W | DATE FINISHED: FEB 1, 1991 | SCALE: 1"=10'

INCLINATION: -55° | BEARING: 240° | TOTAL DEPTH: 269' | LOGGED BY: CJW

ALTERATION: SILICIFICATION | EPIDOTE | CARBONATE | FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

SECTION	% PY SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT	ESTIMATED
109.0'-124.5' BRECCIATED BASALT CONT... GRADATIONAL CNT.	NIL		100	BQ			
124.5'-138.2' BASALT AS IN 15.5'-109.0' WITH MINOR CARBONATE VNLTS. NO PYRITE NOTED.	NIL	129	100				
138.2'-144.0' BRECCIATED BASALT AS IN 109.0'-124.5', MINOR CM-SCALE QUARTZ VEIN, TRACE PYRITE. GRADATIONAL CNT.	TR	139	100				
144.0'-187.0' BASALT AS IN 15.5'-109.0' WITH MINOR CARBONATE AND EPIDOTE VNLTS. TRACE PYRITE. GRADATIONAL CNT. — DIP TEST 56°	TR	149	100				
	NIL	159	100				
	NIL	169	100				
		179					

HOLE NO. ML-91-58 | PROJECT: 1446 McVICAR LAKE | PAGE NO. 4 OF 5

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: JAN 31, 1991 | REF. TO CLAIM CORNER:

COORDINATES 6+50 N. 0+80 S.W | DATE FINISHED: FEB 1, 1991 | SCALE: 1"=10'

INCLINATION -55° | BEARING: 240° | TOTAL DEPTH: 269' | LOGGED BY: CJW

ALTERATION: SILICIFICATION	EPIDOTE	HEMATITE COLOUR	CARBONATE	FRACTURING	MINERAL: QTZ VN	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

144.0'-187.0' BASALT

CON'T...

187.0'-199.0' BRECCIATED BASALT

MEDIUM TO DARK GREEN, FINE GRAINED, WEAKLY TO MODERATELY BRECCIATED WITH CARBONATE MATRIX AND WEAKLY TO MODERATELY SHEARED AND ROTATED ROUNDED FRAGMENTS. TRACE TO 1% DISSEMINATED PYRITE.

CNT @ 75° TO CA

199.0'-221.5' NORTH ZONE

199.0'-221.5' SHEARED BASALT

FINE GRAINED, MODERATELY TO STRONGLY SHEARED @ 70-75° TO CA. UNIT IS MEDIUM GREY-GREEN EXCEPT FROM 200.5'-201.5'/ 208.5'-212.5'/221.0'-221.5', WHICH ARE PREDOMINANTLY HEMATITE-RED IN COLOUR WITH STREAKS OF GREEN. ROCK IS COMPETENT, NOT MUDDY. WEAK PERVASIVE CARBONATE AND VNLTS THROUGHOUT ENTIRE UNIT. MINOR MM-CM-SCALE QUARTZ VEINS AND TRACE TO 2% PYRITE

GRADATIONAL CNT.

RUBBLE

RUBBLE

RUBBLE

SHARP CNT @ 70° TO CA

221.5'-228.5' SHEARED/BRECCIATED BASALT

MEDIUM GREY-GREEN, FINE GRAINED, MODERATELY SHEARED @ 50°-65° TO CA, WEAKLY BRECCIATED AND CARBONATE INFILLED. MINOR MM-CM-SCALE GREY QUARTZ VEINS THAT ARE BROKEN-UP/SHEARED AND INFILLED WITH CARBONATE VNLTS. TRACE TO 3% PYRITE

GRADATIONAL CNT.

INTRUSIVE

228.5'-236.0' BRECCIATED ANORTHOSITIC GABBRO

MEDIUM TO FINE GRAINED, MODERATELY BRECCIATED WITH MOD. CARBONATE MATRIX AND WEAKLY SHEARED, ROUNDED, ROTATED FRAGMENTS. PINK-GREY INTRUSIVE UNIT FROM 231.5'-232.0'. TRACE PYRITE

SHARP CNT @ 75° TO CA

SHARP CNT @ 50° TO CA

% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
TR		100	BQ	187.0'		
	189				5.0'	3042
TR 1		100		192.0'		
				195.5	3.5'	3043
				199.0	3.5'	3055
	199				5.0'	3044
TR 2		80		204.0		
				208.5	4.5'	3045
	209					
TR				212.5	4.0'	3046
2		50			9.0' (4.0')	3047
TR 2	219			221.5		
TR 3		100		223.6	2.1'	3048
				228.5	4.9'	3049
	229					
TR				232.0	3.5'	3050
		100		236.0	4.0'	3051
TR 3				238.2	2.3'	3052
TR	239					

HOLE NO: ML-91-58 | PROJECT: 1446 McVICAR LAKE | PAGE NO: 5 OF 5

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: JAN 31, 1991 | REF. TO CLAIM CORNER

CO-ORDINATES: 6+50 N. 0+80 E.W | DATE FINISHED: FEB 1, 1991 | SCALE: 1"=10'

INCLINATION: -55° | BEARING: 240° | TOTAL DEPTH: 269' | LOGGED BY: CJW

ALTERATION	CARBONATE	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
					DESCRIPTIVE GEOLOGY								
					236.0'-238.3' INTERMEDIATE INTRUSIVE MEDIUM PINK-GREY, FINE TO MEDIUM GRAINED, WEAKLY SHEARED, MODERATELY SILICIFIED WITH 3-10 MM QUARTZ VNS. AND WEAK MM. SCALE CARBONATE VEINS. TRACE TO 3% PYRITE		TR		100	BQ	238.3 ↓ 243.3	5.0'	3053
					238.3'-243.3' BRECCIATED ANORTHOSITIC GABBRO AS IN 228.5'-236.0'. TRACE PYRITE			249			248.3	5.0'	3054
					243.3' - 269.0' ANORTHOSITIC GABBRO MEDIUM GREY GREEN, MASSIVE, MEDIUM TO COARSE GRAINED WEAK CM-SCALE CARBONATE VEINS THROUGHOUT UNIT. TRACE PYRITE.		NIL		100				
								259					
							NIL		100				
					DIPTEST 55° END OF HOLE			269					

HOLE NO: ML-91-59 | PROJECT: 1446 McVICAR LAKE | PAGE NO: 1 OF 5

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: FEB 2, 1991 | REF. TO CLAIM CORNER:

COORDINATES: 7+50 N. 11+45W E | DATE FINISHED: FEB 3, 1991 | SCALE: 1" = 10'

INCLINATION: -58° | BEARING: 240° | TOTAL DEPTH: 279' | LOGGED BY: R.G. BONNER

COMMENTS: TARGET INTERSECTED AT 190'-240'. TRACE APPLE GREEN MICA, NARROW MINERALIZED ZONES

AVE CORE REC'Y / HOLE +80%

ALTERATION: CARBONATE	FRACTURING	MINERAL VEIN	GEOLOGY	DESCRIPTIVE GEOLOGY	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
				0.0' - 20.0' OVERBURDEN CASING REMAINS				BW			
				20.0' - 58.3' BASALT DARK GREEN, APHANITIC TO FINE GRAINED, MASSIVE, CHLORITIC FEW FINE GREENISH YELLOW [illegible] VEINLETS AT 20° TO CA, TRACE FRACTURE RELATED CARBONATE, FEW OBSERVATIONS OF DISSEMINATED PYRITE [illegible]	TR	29	95	BQ			
				25cm VOLCANIC MUDSTONE WITH IRONSTONE CLASTS TO 1cm	-	39	100				
				RUBBLE	TR	49	95				
				SHARP	TR	59	100				

HOLE NO: M-91-59 | PROJECT: 1446 McVICAR LAKE | PAGE NO: 2 OF 5

COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: FEB 2, 1991 | REF. TO CLAIM CORNER:

GRID COORDINATES: 7+50 N. 11+45 W E | DATE FINISHED: FEB 3, 1991 | SCALE: 1" = 10'

INCLINATION: -58° | BEARING: 246° | TOTAL DEPTH: 379' | LOGGED BY: R.G.B.

CORE DEGRADATION	CARBONATE	FRACTURING	MINERAL QTZ VEIN	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES Py	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
					DESCRIPTIVE GEOLOGY								
				A A D	RUBBLE		1-2			BQ	58.3		
					SHARP						62.2	3.9'	3056
					58.3' - 62.2' IRONSTONE		TR		95				
					DARK GREEN TO REDDISH BLACK, APHANITIC, FINELY LAMINATED TO FINELY BEDDED. BEDDING AT 70° TO CA, RUBBLE, FRACTURE MAGNETIC, CHLORITIC MUDSTONE INTERBEDS, FEW FINE SILICA VEINLETS, FRACTURES WITH CHLORITE AND PYRITE COATINGS NO CARBONATE, MAGNETIC CLASTS (FRAGMENTS) WITH CHL + PY COATINGS (SULPHIDIZATION?), ~2% PYRITE AS FRACTURE COATINGS, DISSEMINATED BLEBS AND IDIOMORPH'S			69					
							TR		100				
					62.2' - 100.5' BASALT			79					
					AS IN 20.0 - 58.3, PORPHYRITIC BLEBS TO 1 CM, OCCASIONALLY FELDSPAR PHYRIC WITH 20% PHENO'S 4 1mm, NONDESCRIPT UNIT		TR		100				
								89					
							TR		100				
					UP			99					
					SHARP, CONVOLUTED		TR				101.5		
					100.5' - 109.1' IRONSTONE				100			4.5'	3057
					AS IN 58.3 - 62.2, FRACTURES CONTAINING GARNET, CARBONATE, SILICA, CARBONATE IS PERVASIVE BUT WEAK, PYRITE BLEBS PRESENT ON BEDDING PLANES, FRACTURES AND AS DISS. IDIOMORPHIC CRYSTALS THROUGHOUT UNIT TO 3%		1-3				106		
					S_0 @ 55° TO CA						109.1	3.1'	3058
					SHARP			109					
					MAGNETIC IRONSTONE XENOLITH		TR		100				
					109.1' - 138.0' BASALT								
					AS IN 20.0 - 58.3, OCCASIONAL IDIOMORPHIC PLAGIOCLASE PHENOCRYSTS TO 5mm, DULL PERVASIVE CARBONATE			119					

DDH NO. ML-91-59 | PROJECT: 1446 McVicar Lake | PAGE NO: 3 OF 5

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: FEB 2, 1991 | REF. TO CLAIM CORNER:

COORDINATES: 7450 N. 1+45W E | DATE FINISHED: FEB 3, 1991 | SCALE: 1" = 10'

INCLINATION: -58° | BEARING: 240° | TOTAL DEPTH: 279' | LOGGED BY: R.G.B.

ALTERATION: Fe CARBONATE	CARBONATE	FRACTURING	% MINERAL VEIN	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
					DESCRIPTIVE GEOLOGY								

109.1 - 138.0' BASALT

CONT...

PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE
TR		100	BQ
	129		
TR		100	
	139		
-		100	
	149		
TR		100	
	159		
TR		100	
	169		
-		100	
	179		

GRADATIONAL

292/40 CNT

SHARP

GRADATIONAL

CORETECH 54° TRUE

300/52 CNT

S_1 @ 322/70

SHARP (DEFINED BY APPEARANCE OF DISS. MAGNETITE)

S_1 @ 332/66

SHARP

SHARP

138.0' - 139.9' BRECCIATED BASALT

DARK GREEN, APHANITIC, MASSIVE TO WEAKLY FOLIATED FRAGMENTS, FRAGMENT SUPPORTED, 10% CARBONATE IN FRACTURES, TRACE PYRITE AS BLEBS

139.9' - 142.9' VOLCANIC MUDSTONE

DARK GREEN, APHANITIC, MASSIVE, 30% OF UNIT IS CHERTY IRONSTONE, BIF IS FOLDED, FRACTURED WITH CARBONATE, TRACE PYRITE AS BLEBS; BIF IS WEAKLY BRECCIATED

142.9' - 147.0' BASALT

AS IN 20.0 - 59.3 FINE TO MEDIUM GRAINED, WEAK PERVASIVE CARBONATE, NO SULPHIDES

147.0' - 159.3' [illegible] BASALT

AS IN 138.0 - [illegible], FRAGMENTS WEAK TO MODERATELY FOLIATED, 20-30% CARBONATE (MODERATE), FEW QTZ-CARB VEINLETS - PRE BRECCIATION BUT RELATIVELY UNALTERED, TRACE PYRITE

HOLE NO: ML-91-59 | PROJECT: 1446 McVICAR LAKE | PAGE NO: 4 OF 5

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: FEB 2, 1991 | REF. TO CLAIM CORNER:

COORDINATES: 7+50 N. 1145W E | DATE FINISHED: FEB 3, 1991 | SCALE: 1"=10'

INCLINATION: -58° | BEARING: 240° | TOTAL DEPTH: 279' | LOGGED BY: R.G.B.

ALTERATION (SERICITE | FE-CARBONATE | CARBONATE) | FRACTURING | MINERAL (QTZ VEIN) | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

SHARP

157.3'-190.8' BRECCIATED/SHEARED GABBRO

DARK GREEN TO BLACK, APHANITIC TO FINE GRAINED, FINE DISSEMINATED MAGNETITE (<1mm) TO 5% - LOWER INTERVALS WITH LEUCOCRATIC, FRAGMENT SUPPORTED - ANGULAR CLASTS, MINOR FE-CARBONATE, RARE DISSEMINATED PYRITE BLEBS

SHARP, BRITTLE ZONE WITH FE-CARB

190.8'-239.8' (APPROX) NORTH ZONE

190.8'-210.7' SHEARED GABBRO

GREY TO GREEN, APHANITIC, FOLIATED TO MYLONITIC, FEW QTZ VEINLETS, SERICITE-CHLORITE RICH, TRACE CARBONATE ON FRACTURES, PYRITE INCREASES WITH DEPTH, FOUND AS DISSEMINATIONS AND BLEBS

210.7'-212.0' SILICIFIED SULPHIDE ZONE

NARROW ZONE OF 15-20% QTZ VEINLETS IN SHEARED GABBRO, INCREASED IN PYRITE, UNIT IS MINERALIZED

RUBBLE

HAND SAMPLE S_1 @ 65° TO CA

TRACE APPLE GREEN MICA

SHARP

TRACE APPLE GREEN MICA

212.0'-218.0' INTENSELY SHEARED GABBRO(?)

GREY TO WHITE, APHANITIC, MYLONITIC, SERICITE-CHLORITE WHISPY GREEN MICA, FEW WHITE QTZ VEINS, DISSEMINATED IDIOMORPHIC & ROUND PYRITE, QTZ RIBBONS WITH PY (9%) THIS UNIT RAN GRADE IN ML 54

OBSCURE

218.0'-229' (APPROX) SERICITIC SHEARED GABBRO

LIGHT BUFF, APHANITIC, INTENSELY FOLIATED, MINOR QTZ VEIN BOUDINS, SERICITE, TRACE APPLE GREEN MICA, DISSEMINATED, BLEBS, STRINGER MASSES OF PYRITE. VERY POOR RECOVERY THROUGH LOWER PORTION OF THIS INTERVAL

% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
-		100	BQ	184		
					5.0'	3059
	189			189		
TR				190.8	2.8'	3060
TR		100			3.5'	3061
				194.3		
TR-1				193.3	3.0'	3062
TR-1	199			199.2	1.9'	3063
1-2				201.1	1.9'	~~3064~~
TR-2		100			3.0'	3065
				204.1		
2-3					4.9'	3066
				209		
3	209	100		210.7	1.7'	3067
5-10		85		212	1.3'	3068
2-3				213.4	1.4'	3069
3-5		100			4.6'	3070, 3073 (2 SAMPLES)
				218		
2-3	219	100				
2-3		100			11.0' (3.5)	3071
1-2 (CHIPS)		5				
	229			229		
TR		40			10.0' (4.0)	3072
	239			239		

HOLE NO. ML-91-59 | PROJECT: 1991 McVICAR LAKE | PAGE NO: 5 OF 5

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: FEB 2, 1991 | REF. TO CLAIM CORNER:

COORDINATES: 7+50 N. 1+45W E | DATE FINISHED: FEB 3, 1991 | SCALE: 1" = 10'

INCLINATION: -58° | BEARING: 240° | TOTAL DEPTH: 279' | LOGGED BY: R.G.B.

SECT.	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
	CARBONATE		Qtz VEIN				Py						
220				INT. INT.	229' (APPROX) - 239' (APPROX) INTENSELY SHEARED GABBRO: DARK GREEN, APHANITIC TO FINE GRAINED, INTENSELY SHEARED, CHLORITIC - SERICITIC, TRACE SULPHIDE, UNIT IS RUBBLE - POOR RECOVERY		TR		65	BQ			
					239.8' (APPROX) - 269.1' GABBRO: GREY, FINE GRAINED, MASSIVE, FEW ANORTHOSITIC ZONES 20 cm SHEARED INTERMEDIATE INTRUSIVE AT UPPER CONTACT CARBONATE [illegible] TO FRACTURES, TRACE SULPHIDE		-	249	100				
							-	259	100				
					269.1' - 279.0' BASALT VERY FINE GRAINED: DARK GREEN, APHANITIC TO FINE GRAINED, MASSIVE, UNALTERED, FEW [illegible] VEINLETS, CHLORITIC, NO SULPHIDE		-	269	100				
							-		100				
					DIP TEST 54° END OF HOLE 279'					V			
230													

HOLE NO. [illegible]

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: 7+00 N. 0+75 E.W

INCLINATION: -55° BEARING: 240°

PROJECT: 1446 McVICAR LAKE

DATE STARTED: FEB 4, 1991

DATE FINISHED: FEB 5, 1991

TOTAL DEPTH: 329'

PAGE NO 1 OF 6

REF. TO CLAIM CORNER:

SCALE: 10'

LOGGED B CJW

SECTION	ALTERATION: SILICIFICATION	ALTERATION: CARBONATE	FRACTURING	MINERAL %	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
						DESCRIPTIVE GEOLOGY		PY						
						0.0' - 8.0' OVERBURDEN CASING REMAINS					BW			
					RUBBLE	8.0' - 34.0' BASALT MEDIUM TO DARK GREEN, FINE GRAINED, MASSIVE, WEAK TO MODERATE CARBONATE ALTERATION AS MM-SCALE VNLTS AND PERVASIVE. SECTION BETWEEN 10.5' AND 11.7' IS VERY SILICIFIED (PERVASIVE) WITH MM-SCALE CARBONATE VEINS AND 2-3% PYRRHOTITE AN 2% CHALCOPYRITE. REST OF UNIT HAS TRACE PYRITE		TR	9		BQ	9.0'		
								TR	19	100		12.5'	3.5'	3074
								NIL	29	100				
					IRREGULAR CNT @ ≈ 30° TO CA	34.0' - 116.5' BASALT MEDIUM GREEN, MEDIUM TO FINE GRAINED, MASSIVE, MIN QUARTZ / CARBONATE VNLTS. OCCASIONAL 3-8 mm SUB TO EUHEDRAL PHENOCRYST WHICH GENERALLY OCCUR IN CLUSTERS. V. TRACE PYRRHOTITE AND CHALCOPYRITE, NO		NIL	39	100				
								NIL	49	100				
								NIL	59	100				

91 APR 4 P2:33

HOLE NO. ML-91-60 | PROJECT: 1446 McVICAR LAKE | PAGE NO 2 OF 6

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: FEB 4, 1991 | REF. TO CLAIM CORNER:

COORDINATES: 7400 N. 0+75 E.W | DATE FINISHED: FEB 5, 1991 | SCALE: 1/0'

INCLINATION: -55° BEARING: 240° | TOTAL DEPTH: 329' | LOGGED B: CJW

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

34.0' - 116.5' BASALT

CON'T...

116.5' - 134.0' IRONSTONE

DARK BLACK/GREEN ALTERNATING, FINELY LAMINATED TO FINELY BEDDED, APHANITIC, BEDDING @ 65°-70° TO CA. BLACK CHERT AND MAGNETITE INTERBEDDED WITH GREEN CHLORITE. OCCASIONAL 2-4mm ANHEDRAL GARNETS AND MM-SCALE

GRADATIONAL CNT.

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
0	SILICIFICATION, CARBONATE				TR Po CPY	69	100	BQ			
					TR Po CPY	79	100				
					NIL	89	100				
					NIL	99	100				
100					NIL	109	95				
110					TR		100				
					TR	119			119.0		

HOLE NO. ML-91-60 | PROJECT: 1446 McVICAR LAKE | PAGE NO: 3 OF 6

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: FEB 4, 1991 | REF. TO CLAIM CORNER:

COORDINATES: 7+00 N. 0+75 E.W | DATE FINISHED: FEB 5, 1991 | SCALE: 1"=10'

INCLINATION: -55° | BEARING: 240° | TOTAL DEPTH: 329' | LOGGED BY: CJW

SECTION	ALTERATION: CARBONATE	FRACTURING	MINERAL: QTZ VN	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES: PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
120					DESCRIPTIVE GEOLOGY						119.0		
					116.5' - 134.0' IRONSTONE CONT... GARNETIFEROUS HORIZONS PARALLEL TO BEDDING PLANES. 1-3% PYRITE ALONG BEDDING PLANES/FRACTURES WITH OCCASIONAL SULPHIDIZATION TEXTURES (IE. REPLACEMENT) NOTED.		1-3		100	BQ	124.0	5.0'	3075
								129			129.0	5.0'	3076
							1-2				134.0	5.0'	3077
					134.0' - 221.0' BASALT DARK GREEN, MEDIUM TO COARSE GRAINED, MASSIVE, VERY MINOR MM-SCALE CARBONATE VNLTS. UNIT BETWEEN 162.5'-163.3' - MIS/CHERT WITH CARBONATE VNLTS AND 1% PYRITE. REST OF UNIT TRACE PYRITE. MINOR EPIDOTE VNLTS NEAR END OF UNIT..		TR		100				
					SHARP CONT @ 50° TO CA			139					
					— DIP TEST 54°		TR		100				
								149					
							TR		100				
								159					
					MIS		TR		100				
					RUBBLE			169					
					RUBBLE		TR		100				
170								179					

HOLE NO: MC-91-6

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: 7+00 N. 0+75 E/W

INCLINATION: -55° BEARING: 240°

PROJECT: 1446 MCVICAR LAKE

DATE STARTED: FEB 4, 1991

DATE FINISHED: FEB 5, 1991

TOTAL DEPTH: 329'

REF. TO CLAIM CORNER:

SCALE: 1"=10'

LOGGED BY: CJW

ALTERATION: SILICIFICATION | EPIDOTE | CARBONATE

FRACTURING

MINERAL: QTZ VN

GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

% SULPHIDES: PY

DRILLING INTERVAL

% CORE RECOVERED

CORE SIZE

SAMPLE INTERVAL

% REC'Y. SAMP. INT.

ESTIMATED

134.0' - 221.0' BASALT

CON'T...

% SULPHIDES (PY)	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE
TR	189	100	BQ
TR	199	100	
TR	209	100	
TR	219	100	
TR	229	100	
TR TO 1			
TR	239		

221.0' - 236.0' BRECCIATED BASALT

GRADATIONAL

MEDIUM TO DARK GREEN, FINE GRAINED, WEAKLY TO MODERATELY BRECCIATED WITH CARBONATE INFILLING. WEAKLY SHEARED. VERY MINOR DISSEMINATED EPIDOTE GRAINS. TRACE TO 1% PYRITE

SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
224.0'		
229.0'	5.0'	3078
233.0	4.0'	3079
236.0	3.0'	3080
239.7'	3.7'	3081

236.0' - 239.7' PORPHYRITIC BASALT

GRADATIONAL CNT.

DARK TO MEDIUM GREY-GREEN, MASSIVE, PHYRIC WITH 7-10%, 1-2 mm SUB TO EUHEDRAL FELDSPAR PHENOCRYSTS SET IN A FINE GRAINED, SILICIFIED MATRIX, TRACE PYRITE.

SHARP CNT @ 70°

HOLE NO ML-91-60 | PROJECT: 1446 McVICAR LAKE | PAGE NO 5 OF 6

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED FEB 4, 1991 | REF. TO CLAIM CORNER:

COORDINATES: 7+00 N. 0+75 S.W | DATE FINISHED FEB 5, 1991 | SCALE: 1:10'

INCLINATION: -55° BEARING: 240° | TOTAL DEPTH: 329' | LOGGED BY CJW

ALTERATION | COMMENTS: | AVE CORE REC'Y / HOLE

SECTION | GREEN MICA | SERICITE | CARBONATE | FRACTURING | % MINERAL | GEOLOGY

DESCRIPTIVE GEOLOGY

% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
				239.7		
TR		100	BQ	245.6	5.9'	3082
				248.6	3.0'	3083
1 TO 3	249	90		252.2'	3.6 (3.0)	3084
				255.8'	3.6 (3.0)	3085
1				260.5'	4.7'	3086
1	259			264.0'	3.5' (2.3')	3087
TR		70		269.0	5.0' (3.0')	3088
TR	269	90		274.0'	5.0'	3089
				279.0'	5.0'	3090
TR TO 1	279	100		284.0'	5.0'	3091
				288.0'	4.0'	3092
TR TO 1	289			292.0	4.0'	3093
TR		100				
	299					

239.7' - 248.6' BRECCIATED BASALT

AS IN 221.0' - 236.0', TRACE PYRITE, WEAKLY TO MODERATELY SHEARED BETWEEN 243.2' - 245.2'

248.6' - 255.8' NORTH ZONE

248.6' - 255.8' SHEARED BASALT

LIGHT TO DARK GREEN, FINE GRAINED, MODERATELY TO STRONGLY SHEARED 65°-70° TO CA. WEAK CARBONATE ALTERATION, AND TWO UNITS WITH MODERATE SERICITIC ALTERATION, SEVERAL 2-3 cm QUARTZ VEINS. 1-3% PYRITE. MINOR APPLE GREEN MICA.

255.8' - 260.5' SHEARED/BRECCIATED BASALT

MEDIUM GREEN, FINE GRAINED, MODERATELY TO STRONGLY SHEARED @ 50°-60° TO CA. AND WEAKLY TO MODERATELY BRECCIATED WITH CARBONATE INFILLING, MINOR SERICITIC ALTERATION AND BROKEN-UP MM-SCALE QUARTZ VEINS. HEALED WITH CARBONATE. 1% PYRITE.

260.5' - 279.0' VUGGY BASALT

DARK GREEN, MEDIUM TO FINE GRAINED, WEAKLY FOLIATED @ 60° TO CA. VERY BROKEN-UP, RUBBLY. MINOR CM-SCALE QUARTZ VEINS AND VERY WEAK CARBONATE ALTERATION (DISSOLVED-OUT). THREE NARROW (5-10 cm) KAOLINIZED TONALITE DYKES NOTED.

279.0' - 292.0' BRECCIATED/SHEARED ANORTHOSITIC GABBRO

MEDIUM GREY-GREEN, FINE GRAINED, MODERATELY BRECCIATED WITH CARBONATE INFILLING AND MODERATELY SHEARED. FRAGMENTS APPEAR ROUNDED AND ROTATED. TRACE TO 1% PYRITE. UNIT INCLUDES A 10 cm WIDE INTERMEDIATE INTRUSIVE WITH 2% PYRITE.

292.0' - 299.4' ANORTHOSITIC GABBRO

MEDIUM GREEN, MEDIUM TO COARSE GRAINED, MASSIVE TO WEAKLY FOLIATED @ 60° TO CA. MINOR MM-SCALE CARBONATE VNLTS, TRACE PYRITE.

GRADATIONAL CNT

SHARP CNT @ 70° TO CA

GRADATIONAL CNT.

KAOLINIZED TONALITE

RUBBLE

GRADATIONAL CNT.

INTERMEDIATE INTRUSIVE

DIP TEST 54°

HOLE NO. ML-91-60

CASING COLLAR ELEV.:

GROUND ELEV.:

COORDINATES: 7+00 N. 0+75 E/W

INCLINATION: -55° BEARING: 240°

PROJECT: 1446 McVICAR LAKE

DATE STARTED: FEB 4, 1991

DATE FINISHED: FEB 5, 1991

TOTAL DEPTH: 329'

PAGE NO 5 OF 6

REF. TO CLAIM CORNER:

SCALE: 10'

LOGGED BY CJW

COMMENTS:

AVE CORE REC'Y / HOLE

SECTION	ALTERATION	CARBONATE	FRACTURING	MINERAL QTZ VN	GEOLOGY	DESCRIPTIVE GEOLOGY	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
300						CORETECH SLIDE 86/47° GRADATIONAL CNT	TR			BQ	304.5'		
						299.4'-304.5' BRECCIATED/SHEARED ANORTHOSITIC GABBRO AS IN 279.0'-292.0' WITH LESS CARBONATE INFILLING. SHEARED @ 65° TO CA. TRACE PYRITE	TR TO 2		100		309.0'	4.5'	3094
310						304.5'-321.7' INTERMEDIATE INTRUSIVE MEDIUM PINKY-YELLOWISH BEIGE TO GREY, FINE GRAINED, MASSI WITH OCCASIONAL MM TO CM-SCALE QUARTZ AND/OR CARBONATE VEINS AS WELL AS <1mm WIDE CHLORITIC SLIPPAGE PLAN CROSS-CUTTING CORE AT VARIOUS ANGLES. TRACE TO 2% PYRITE THROUGHOUT UNIT	TR TO 2	309	100		314.0'	5.0'	3095
											319.0'	5.0'	3096
320						SHARP CNT @ 65° TO CA	TR TO 2	319			321.7'	2.7'	3097
						321.7-329.0' ANORTHOSITIC GABBRO AS IN 292.0'-299.4' BUT WEAKLY SHEARED @ 55°-60° TO CA. TRACE PYRITE	TR		100				
						END OF HOLE		329					
330													
340													

HOLE NO. ML-91-61 | PROJECT: 1446 McVICAR LAKE | PAGE NO 1 OF 5

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: FEB 6, 1991 | REF. TO CLAIM CORNER:

COORDINATES: 8+00 N. 2+00W E | DATE FINISHED: FEB 7, 1991 | SCALE 1"=10'

INCLINATION: -57° BEARING: 180° | TOTAL DEPTH: 279' | LOGGED BY: R.G. BONNER

SECTION	ALTERATION - CARBONATE	FRACTURING	MINERAL VEIN	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
					DESCRIPTIVE GEOLOGY		Py						
0					0.0' - 12.0' OVERBURDEN					Bw			
					CASING REMAINS								
10													
					12.0' - 32.5' BASALT					Bo			
					DARK GREEN, APHANITIC, MASSIVE, CHLORITIC, STRONG PERVASIVE CARBONATE, FEW CARB FILLED FRACTURES, MINOR IRONSTONE		-		100				
20					TRACE DISSEMINATED AND FRACTURE RELATED PYRITE			19					
							TR		100				
								29					
					5cm IRONSTONE								
					SHARP - FRACTURE								
					32.5' - 56.3' PORPHYRITIC BASALT		-		100				
					DARK GREEN, PHYRIC WITH 20-30% 5mm IDIOMORPHIC MAFIC PHENO'S RANDOMLY ORIENTED ALSO 1% IDIOMORPHIC 5mm PLAGIOCLASE PHENO'S (GREENISH) RANDOMLY ORIENTED, CLORITIC GROUNDMASS IS APHANITIC, TRACE FRACTURE RELATED CARBONATE FEW GREENISH SILICA VEINLETS, NO SULPHIDE								
							-		100				
								49					
					56.3' - 60.8' BASALT		-		100				
					AS IN 12.0-32.5, NO SULPHIDE			59					
					GRADATIONAL								

MINING DIVISION
PATRICIA
MINING RECORDER
91 APR 4 P2:33

HOLE NO. ML-91-61 | PROJECT: 1446 McVICAR LAKE | PAGE NO. 2 OF 5

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: FEB 6, 1991 | REF. TO CLAIM CORNER:

COORDINATES: 8+00 N. 2+00 W E | DATE FINISHED: FEB 7, 1991 | SCALE: 1" = 10'

INCLINATION: -57° | BEARING: 180° | TOTAL DEPTH: 279' | LOGGED BY: R.G.B

ALTERATION | FRACTURING | % MINERAL VEIN | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

SECTION

SHARP

60.8' - 70.7' IRONSTONE

DARK GREEN TO BLACK, APHANITIC, THICKLY BEDDED, MAGNETITE BEDS ARE THINLY LAMINATED, INTERBEDDED WITH CHLORITIC MUDSTONE (VOLCANIC), CHERTY MAGNETIC BEDS ARE WEAK TO MODERATELY FRACTURED WITH CARBONATE FILLING, SOME CHLORITE FRACTURE FILLING WITH LOCAL 5% PYRITE, SULPHIDE IS TRACE THROUGHOUT

INCREASING CARBONATE

SHARP

70.7' - 85.3' BASALT

AS IN 12.0 - 32.5, NO SULPHIDE, TRACE CARBONTE

GRADATIONAL

85.3' - 105.0' PORPHYRITIC BASALT

AS IN 32.5' - 56.3, NO SULPHIDE, TRACE CARBONATE

NO PLAGIOCLASE PHENO'S, FINER GRAINED AT LOWER CONTACT

SHARP

105.0' - 125.3' IRONSTONE

AS IN 60.8' - 70.7', ATECTONIC FOLDING, PYRITE DISSEMIN. THROUGH FRACTURED SECTIONS, CARBONATE WITH PINKISH MINERAL IN FRACTURES, MINOR EPIDOTE

% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
TR		100	BQ			
	69					
TR		100				
	79					
-		100				
	89					
-		60				
	99					
TR		100				
Tr.						
	109					
TR				113.6		
3		100		115.8	2.2'	3105
TR				118.3		
2						
2	119				3.8'	3106

123.1

HOLE NO. ML-91-61 | PROJECT: 1446 McVICAR LAKE | PAGE NO: 3 OF 5

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: FEB 6, 1991 | REF. TO CLAIM CORNER:

COORDINATES: B+00 N. 2+00W E. | DATE FINISHED: FEB 7, 1991 | SCALE: 1"=10'

INCLINATION: -57° | BEARING: 180° | TOTAL DEPTH: 279' | LOGGED BY R.G.B.

ALTERATION: FE-CARBONATE | SERICITE | CARBONATE | FRACTURING | %MINERAL VEIN | GEOLOGY | SECTION

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

% PY SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT.	ESTIMATED
			BQ			
TR		100		129.0		
2-3	129			130.9	1.9'	3107
TR		100		137.5		
	139			141.0	3.5'	3108
TR		100		146	5.0'	3109
	149			151	5.0'	3110
-		100		156	5.0'	3111
	159			160.6	4.6'	3112
TR-2		95		164.5	3.9'	3113
				165.5	1.0'	3114
	169			170.2	4.7'	3115
-		95		174.0	3.8'	3116
TR-1	179		V	179	5.0'	3117

105.0' - 125.3' IRONSTONE

CONT...

SHARP

125.3' - 129.0' BASALT

AS IN 12.0 - 32.5, NO SULPHIDE, WEAK FRACTURE RELATED CARBONATE

SHARP

SHARP

129.0' - 130.9' IRONSTONE

AS IN 105 - 125.3, STRONG FRACTURE RELATED CARBONATE IN CHERTY MAGNETITE INTERBEDS, PYRITE IS ALSO FRACTURE RELATED

GRADATIONAL

S1 @ 80° TO CA

RUBBLE

GRADATIONAL

130.9' - 137.5' BRECCIATED BASALT

LIGHT GREEN, APHANITIC, WEAK TO MODERATELY BRECCIATED WITH CARBONATE FILLING, FRAGMENT SUPPORTED, ANGULAR FRAGMENTS, TRACE DISSEMINATED PYRITE

S1 @ 274/42

S1 @ 275/44

CORE TECH (45° TRUE)

S1 @ 275/54

137.5' - 141.0' SHEARED BASALT

LIGHT GREEN, APHANITIC, INTENSELY FOLIATED, TALCOUS-SERICITE CARBONATE LENSOIDS - MYLONITIC, BLACK BIOTITE? CLOTS BELOW 139', TRACE FRACTURE RELATED PYRITE BLEBS, FAULT OFFSETS ARE NOTED

RUBBLE

S1 @ 90° TO CA

SHARP

SHARP

141.0' - 160.6' BRECCIATED/SHEARED BASALT

AS IN 130.9 - 137.5, FRAGMENTS BECOME INTENSELY FOLIATED AND UNIT GRADES TO SHEARED, NO SULPHIDE

GRADATIONAL

160.6' - 209.0' (APPROX) NORTH ZONE

SHARP

160.6' - 164.5' SHEARED BASALT

DARK GREY, APHANITIC, INTENSELY FOLIATED AND SHEARED, CHLORITIC WEAK TRACE CARBONATE, PATCHEY STRONG FE-CARB, NO SULPHIDE

HOLE NO. ML-91-61 | PROJECT: 1446 McVICAR LAKE | PAGE NO: 4 OF 5

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: FEB 6, 1991 | REF. TO CLAIM CORNER:

COORDINATES: 8+00 N. 2+00W E. | DATE FINISHED: FEB 7, 1991 | SCALE: 1"=10'

INCLINATION: -57° | BEARING: 180° | TOTAL DEPTH: 279' | LOGGED BY: R.G.B.

COMMENTS:

AVE CORE REC'Y / HOLE

SECTION	ALTERATION: SERICITE	FE-CARBONATE	CARBONATE	FRACTURING	MINERAL	GEOLOGY	DESCRIPTIVE GEOLOGY	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
180							164.5'-165.5' CHERTY IRONSTONE BLACK, APHANITIC, BRECCIATED, ANGULAR FRAGMENTS - FRAGMENT SUPPORTED, CHLORITE-PYRITE ON FRACTURES AND IN MATRIX, HEMATITE ON FRACTURE SURFACES, MASSIVE PYRITE BANDS - OVERALL 2%	Tr-1			BQ	179 / 181.9	2.9'	3118
						LINEATION (UNKNOW ORIENTATION) S_1 @ 80° TO CA		Tr-1		100		186.9	5.0'	3119
									189			189.0	2.1'	3120
190						NO RECOVERY (SLUDGE ONLY).	165.5'-170.1' BRECCIATED BASALT AS IN 141.0-160.6', TRACE TO 1% PYRITE - DISSEMINATED BLEBS AND FEW BANDS <10mm, STRONG PERVASIVE CARBONATE MINOR SERICITE			"0"				
									199					
200						5% RECOVERY (SLUDGE SAMPLE)	170.1'-174.0' SHEARED BASALT AS IN 160.6'-164.5', NO SULPHIDE, STRONG PERVASIVE FE-CARB WITHIN UNIT	Tr-1		5			30.0' (2.0)	3121
									209					
210							174.0'-181.9' BRECCIATED BASALT AS IN 141.0-160.6, TRACE TO 1% DISSEMINATED PYRITE BLEBS FRACTURE - BRECCIA RELATED CARBONATE	-		10				
						RUBBLE	181.9'-209 (APPROX) SHEARED BASALT (VERY POOR RECOVERY) AS IN 160.6'-164.5', FEW CHERTY IRONSTONE BANDS, QTZ VEINLETS ARE LENSOIDAL, TRACE PYRITE, SLUDGE WITH 1% PY		219			219.0		
220							209.0' (APPROX) - 228.8' GABBRO DARK GREEN, APHANITIC, FOLIATED, CHLORITIC, FEW PATCH WITH COARSER GRAIN - SUSPECT GABBRO, POOR RECOVERY, NO SULPHIDE	-		10			9.8' (2.0)	3122
						SHARP			229			228.8		
230								-		50			10.2' (5.0)	3123
									239			239		

HOLE NO. ML-91-61 | PROJECT: 1446 McVICAR LAKE | PAGE NO 5 OF 5

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: FEB 6, 1991 | REF. TO CLAIM CORNER:

COORDINATES: 8+00 N. 2+00 W E | DATE FINISHED: FEB 7, 1991 | SCALE: 1"=10'

INCLINATION: -57° | BEARING: 180° | TOTAL DEPTH: 279' | LOGGED BY:

SECTION	ALTERATION: CARBONATE	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
240					228.8' - 279.0' ANORTHOSITIC GABBRO WHITE WITH SPECKLED GREEN, COARSE GRAINED, MASSIVE PERVASIVE KAOLINISATION TO 239', PERVASIVE WEAK TO MODERATE CARBONATE, NO SULPHIDES		-		100	BQ			
250							-	249	100				
							-	259	95				
260							-	269	100				
					DIP TEST 53° TRUE — END OF HOLE 279'								
270													

HOLE NO ML-91-62		PROJECT 1996 McVicar Lake	PAGE NO 1 OF 6
CASING COLLAR ELEV.:	GROUND ELEV.:	DATE STARTED: FEB 7, 1991	REF. TO CLAIM CORNER:
COORDINATES: 7+50 N.	0+75W E	DATE FINISHED FEB 8, 1991	SCALE 1" = 10'
INCLINATION: -57°	BEARING: 240°	TOTAL DEPTH: 349'	LOGGED BY R.G. BONNER

COMMENTS: TARGET INTERSECTED FROM 277.5' - 297.0'

AVE CORE REC'Y / HOLE

SECTION	ALTERATION	CARBONATE	FRACTURING	MINERAL QTZ VEIN	GEOLOGY	DESCRIPTIVE GEOLOGY	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
						0.0' - 12.0' OVERBURDEN CASING REMAINS				BW			
						12.0' - 29.4' BASALT DARK GREEN, FELDSPAR PHYRIC WITH 15-20% <1mm PLAGIOCLASE PHENO'S ALSO 1-2% IDIOMORPHIC TO SUBIDIOMORPHIC PLAG PHENO'S TO 5mm RANDOMLY DISTRIBUTED AND ORIENTED, MASSIVE, CHLORITIC, FINE GREENISH SILICA VEINLETS, TRACE CARBONATE - FRACTURE RELATED, MINOR QTZ-CARB VEINING, NO SULPHIDE	-	19	100	BQ			
20							-		100				
					4cm QTZ-CARB VEIN			29					
30					SHARP CNT @ 45° TO CA	29.4' - 46.4' IRONSTONE DARK GREEN TO BLACK, APHANITIC, THINLY BEDDED, INTERBEDDED BLACK CHERTY MAGNITIC BEDS FINELY LAMINATED WITH LAMINATED GREEN FERRUGINOUS MUDSTONE - CHLORITIC, FRACTURING - TWO GENERATIONS - EARLY WITH PINKISH GARNET(?) AND/OR CHLORITE LATTER - WHITE CARBONATE FILLED, FINE PYRITE WITH QTZ-CARB VEINLETS (3RD ?) - MINOR COMPONENT, TRACE EPIDOTE	TR	39	100				
					S_0 @ 50° TO CA		-		100				
					SHARP	46.4' - 122.7' BASALT AS IN 12.0 - 29.4, NO LARGE PLAGIOCLASE PHENOCRYSTS, TRACE PYRITE - FRACTURE RELATED		49					
							-		100				
								54					

MINING RECORDER
PATRICIA
MINING DIVISION
91 APR 4 P2:33

HOLE NO. ML-91-62
CASING COLLAR ELEV.: GROUND ELEV.:
COORDINATES: 7+50 N. 0+75W E
INCLINATION: -57° BEARING: 240°

PROJECT: 1446 McVICAR LAKE
DATE STARTED: FEB 7, 1991
DATE FINISHED: FEB 8, 1991
TOTAL DEPTH: 349'

REF. TO CLAIM CORNER:
SCALE: 1"=10'
LOGGED BY: RGB

SECTION	ALTERATION: CARBONATE	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% SULPHIDES P_y	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
0					AVE CORE REC'Y / HOLE							
					46.4' - 122.7' BASALT CONT... NONDESCRIPT	TR		100	BQ			
					0.8' IRONSTONE 1-2% PYRITE - FRACTURE RELATED	TR	69	100				
					2' PERVASIVE CARBONATE	TR	79	100				
						TR	89	100				
						TR	99	100				
						TR	109	100				
						TR	119					

HOLE NO: ML-91-62	PROJECT: 1446 McCUSKER LAKE	PAGE NO: 3 OF 6	
CASING COLLAR ELEV.:	GROUND ELEV.:	DATE STARTED: FEB 7, 1991	REF. TO CLAIM CORNER:
COORDINATES: 7+50 N. 0+75 W E		DATE FINISHED: FEB 8, 1991	SCALE: 1" = 10'
INCLINATION: -57°	BEARING: 240°	TOTAL DEPTH: 349'	LOGGED BY: R.G.B.

SECTION	ALTERATION: CARBONATE	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES: PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT.	ESTIMATED
					DESCRIPTIVE GEOLOGY								
120					46.4' - 122.7' BASALT		TR			BQ	122.7'		
				SHARP	CONT...				100			5.0'	3124
					122.7' - 133.2' IRONSTONE		Tr-1				127.7'		
130					AS IN 29.4 - 46.4, UP TO 2% PYRITE AS BLEBS, CRYSTALS AND STRINGERS			129				5.5'	3125
				Sa @ 025/37 SHARP			TR-1				133.2		
					133.2' - 180.8' BASALT				100				
140					AS 46.4 - 122.7, NONDESCRIPT, TRACE SULPHIDE - FRACTURE RELATED		TR						
								139					
							TR		100				
150				CORE TECH 57° TRUE									
							-	149	100				
160							TR	159	100				
								169					
170							TR		100				
								179					

HOLE NO: ML-91-62 | PROJECT: 1446 McVICAR LAKE | PAGE NO: 4 OF 6

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: FEB 7/91 | REF. TO CLAIM CORNER:

COORDINATES: 7+50 N. 0+75 W E. | DATE FINISHED: FEB 8/91 | SCALE: 1"=10'

INCLINATION: -57° | BEARING: 240° | TOTAL DEPTH: 349' | LOGGED BY: RGB

ALTERATION: CARBONATE	FRACTURING	MINERAL: QTZ VEIN	GEOLOGY	DEPTH	DESCRIPTIVE GEOLOGY	% SULPHIDES: PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
			SHARP	192.8'	**192.8' - 195.5' IRONSTONE** AS IN 29.4 - 46.4, TRACE TO 1% PYRITE - INTRODUCED ALONG FRACTURES, BEDDING PLANES, CHERT IS PROMINENT	Tr-1		100	BQ			
			S_0 @ 45° TO CA				189					
						Tr-1		100				
			SHARP	195.5'	**195.5' - 230.6' PORPHYRITIC BASALT** DARK GREEN, FELDSPAR PHYRIC WITH CENTRAL 90% OF INTERVAL CONTAINING 20% 3-5mm SUBIDIOMORPHIC PLAGIOCLASE PHENOCRYSTS, RARE PHENO'S TO 1.5cm (EDIOMORPHIC), MASSIVE CHLORITIC, FEW SILICA (GREENISH) VEINLETS, MINOR QTZ-CARBONATE VEINLETS (FRACTURES), TRACE DISSEMINATED PYRITE	Tr	199	100				
						Tr		100				
						Tr	209	100				
				230.6'	**230.6' - 233.4' SHEARED PORPHYRITIC BASALT** AS ABOVE, MODERATELY TO INTENSELY FOLIATED, BRECCIATED WITH WHITE CARBONATE MATRIX, FRAGMENT SUPPORTED, ANGULAR FRAGMENTS, APPROXIMATELY 50% OF FRAGMENTS ARE SHEARED, MINOR QTZ VEIN, TRACE DISSEMINATED PYRITE BLEBS	Tr	219	100				
				233.4'	**233.4' - 237.4' IRONSTONE** AS IN 29.4 - 46.4, ATECTONIC FOLDING	Tr		100				
			SHARP	237.4'	**237.4' - 263.8' BASALT** AS IN 46.4 - 122.7,	Tr	229	100				
			SHARP				239					

HOLE NO: ML-91-62 | PROJECT: 1446 McVICAR LAKE | PAGE NO: 5 OF 6

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: FEB 7, 1991 | REF. TO CLAIM CORNER:

COORDINATES: 7+50 N. 0+75W E. | DATE FINISHED: FEB 8, 1991 | SCALE: 1" = 10'

INCLINATION: -57° | BEARING: 240° | TOTAL DEPTH: 349' | LOGGED BY: R.G.B.

ALTERATION: SERICITE | APPLE GREEN MICA | CARBONATE

FRACTURING | % MINERAL VEIN | GEOLOGY

COMMENTS:

AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

237.4' - 263.8' BASALT

CONT...

10cm IRONSTONE

DISSEMINATED MAGNETITE

263.8' - 277.5' BRECCIATED BASALT

DARK GREEN TO WHITE, APHANITIC, WHITE CARBONATE MATRIX ANGULAR FRAGMENTS SELF-SUPPORTING, FRAGMENTS BECOME SHEARED WITH DEPTH, BRECCIATION CREATES A FOLIATION CHLORITIC, TRACE DISSEMINATED PYRITE AS BLEBS

GRADATIONAL

SHEAR

S_1 (BRECCIA) @ 60° TO CA

INCREASING DEFORMATION

GRADATIONAL

277.5' - 297.0' NORTH ZONE

277.5' - 283.4' SHEARED BASALT

DARK GREEN - WHITE - RED - ORANGE, APHANITIC, INTENSELY FOLIATED, INTENSELY SHEARED, CHLORITIC - SERICITIC, SOME CONVOLUTED ZONES, SLIP LINEATIONS COMMON, WEAK CARBONATE - CALCITE + FE-CARB, FEW QTZ VEINLETS AND LENSOIDS, TRACE DISSEMINATED PYRITE

S_1 @ 315/48

S_1 @ 302/54

SLIP LINEATION 062/53

283.4' - 285.2' QUARTZ VEIN

WHITE, 20% INTENSELY SHEARED INCLUSIONS, TRACE CARB, TRACE - 3% PYRITE, MINOR FE-CARB, VEIN TEXTURE APPEARS TO BE RIBBONED - MULTIPLE VEINING, SULPHIDE AT CONTACT WITH EACH MARGIN

APPLE GREEN MICA

S_1 @ 315/48

GRADATIONAL

CORE TECH

3.5° TRUE

% SULPHIDES (Py)	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
Tr		100	BQ			
Tr	249	100				
Tr	259	100		266.5	5.0'	3126
Tr	269	95		271.5	3.0'	3127
				274.5	3.0'	3128
				277.5	3.0'	3129
Tr	279	100		280.5	2.9'	3130
3				283.4	1.8'	3131
2				285.2	3.8'	3132
	289			289.0	3.0'	3133
1-2		100		292.0	5.0'	3134
	299			297.0	5.0'	3135

302.0

HOLE NO: ML-91-62 | PROJECT: 1446 McVittie Lake | PAGE NO: 6 OF 6

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: FEB 7, 1991 | REF. TO CLAIM CORNER:

CO-ORDINATES 7+50 N. 0+75W E | DATE FINISHED: FEB 8, 1991 | SCALE: 1"=10'

INCLINATION: -57° | BEARING: 240° | TOTAL DEPTH: 349' | LOGGED BY: RGB

ALTERATION: CARBONATE	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES Py	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
				DESCRIPTIVE GEOLOGY								

285.2' - 297.0' SHEARED BASALT

AS IN 277.5-283.4', STRONGER SERICITE, APPLE GREEN MICA, INCREASED CARBONATE, 2-3% PYRITE DISSEMINATED, PINK CLAY ON FRACTURES

SHARP

SHARP

SHARP

297.0' - 305.2' BRECCIATED GABBRO

DARK GREEN, SPOTTED, APHANITIC TO FINE GRAINED, WHITE CARBONATE MATRIX, ANGULAR SHEARED FRAGMENTS ARE SELF SUPPORTING, CHLORITIC - SERICITIC, TRACE PYRITE

305.2' - 349.0' GRANODIORITE - TONALITE

BUFF, FINE TO MEDIUM GRAINED, MASSIVE, TRACE CARBONATE FEW BRECCIATED GABBRO INTERVALS, TRACE - 1% DISSEMINATED PYRITE, K-SPAR RICH INTERVALS. BECOMES TONALITE BELOW 320', GABBRO IS ANORTHOSITIC

END OF HOLE 349'

Py	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
Tr		100	BQ	282.0 ↑		
				285.2	3.2'	3136
Tr	309			309	3.8'	3137
Tr-1		100				
Tr	319	100				
Tr	329	100				
Tr	339	100				
	349		V			

[illegible] 91-63		PROJECT: 1446 McVICAR LAKE	PAGE NO OF 5
[illegible]NG COLLAR ELEV.:	GROUND ELEV.:	DATE STARTED: FEB 9, 1991	REF. TO CLAIM CORNER:
[illegible]RDINATES 7+25 N.	1+22 E.W	DATE FINISHED: FEB 10, 1991	SCALE: 1 0'
[illegible]NATION: -55°	BEARING: 240°	TOTAL DEPTH: 289'	LOGGED B[illegible] CJW

ALTERATION							COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	E[illegible]MATED
		SILICIFICATION	CARBONATE	FRACTURING	MINERAL QTZ VN	GEOLOGY	DESCRIPTIVE GEOLOGY		PY						
							0.0'-30.0' OVERBURDEN								
							30.0'-115.0' BASALT DARK GREEN, FINE GRAINED, MASSIVE TO WEAKLY FOLIATED. OCCASIONAL MM-SCALE QUARTZ +/- CARBONATE VNLTS. NIL TO TRACE PYRITE		NIL	39	100				
							RUBBLE		NIL	49	95				
							RUBBLE		NIL	59	100				

MINING RECORDER
PATRICIA
MINING DIVISION
91 APR 4 P2:33

HOLE NO: ML-91-63 | PROJECT: 1446 McVICAR LAKE | PAGE NO 2 OF 5

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: FEB 9, 1991 | REF. TO CLAIM CORNER:

COORDINATES: 7+25 N. 1+22 E/W | DATE FINISHED: FEB 10, 1991 | SCALE: 10'

INCLINATION: -55° BEARING: 240° | TOTAL DEPTH: 289' | LOGGED BY: CJW

ALTERATION: SILICIFICATION	ALTERATION: CARBONATE	FRACTURING	MINERAL VN & %	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
					DESCRIPTIVE GEOLOGY								

30.0' - 115.0' BASALT

CON'T...

% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE
NIL	69	100	BQ
NIL	79	95	
TR	89	100	
TR	99	100	
TR TO 1% PO TR	109	100	
TR		100	
1 TO 3	119		

70

RUBBLE

80

RUBBLE

90

100

110

SHARP CNT @ 80° TO CA

115.0' - 121.0' IRONSTONE

DARK GREEN/BLACK ALTERNATING 4-8 cm BANDS OF FINELY LAMINATED, FINELY BEDDED BLACK CHERT + MAGNETITE AND GREEN CHLORITE. OCCASIONAL MM-SCALE CARBONATE VNLTS. UNIT TENDS TO BE COMPETENT WITH FEW FRACTURES OR OFFSET. 1-3% PYRITE ALONG BEDDING PLANES / FRACTURES AND DISSEMINATED

SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
115.0	5.0'	3138
↓ 121.0	↓	↓

HOLE NO. ML-91-63
CASING COLLAR ELEV.: GROUND ELEV.:
COORDINATES: 7+25 N. 1+22 E W
INCLINATION: -55° BEARING: 240°

PROJECT: 1446 McVICAR LAKE
DATE STARTED: FEB 9, 1991
DATE FINISHED: FEB 10, 1991
TOTAL DEPTH: 289'

PAGE NO : OF 5
REF. TO CLAIM CORNER:
SCALE: 10'
LOGGED BY CJW

ALTERATION | FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y / HOLE

DESCRIPTIVE GEOLOGY

% PY SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
1-3			BQ	115.0' ↓ 121.0		
TR		100				
	129			129.0		
TR TO 1				132.0	3.0'	3139
TR		100				
	139					
TR		100				
	149					
TR		100				
	159					
TR		100				
	169					
TR		100				
TR						
	179					

SHARP CNT @ 75°

115.0' - 121.0' IRONSTONE

CON'T...

121.0' - 129.0' BASALT

AS IN 30.0' - 115.0', TRACE PYRITE

SHARP CNTS @ 75°

129.0' - 132.0' IRONSTONE

AS IN 115.0' - 121.0', TRACE TO 1% PYRITE

132.0' - 174.5' BASALT

DARK TO MEDIUM GREEN, MASSIVE TO WEAKLY FOLIATED @ 65-70° TO CA. MINOR PATCHES AND VNLTS OF QUARTZ AND EPIDOTE. WEAK CARBONATE VEINS (cm-SCALE) AND PATCHES. TRACE PYRITE

IRONSTONE

CORE TECH @ 55°

174.5' - 209.0' BRECCIATED/SHEARED BASALT

MEDIUM TO DARK GREEN, MODERATELY BRECCIATED WITH CARB. INFILLING AND MOD. SHEARED @ 60-65° TO CA. WEAK MM-cm SCALE QUARTZ VEINS. TRACE PYRITE

GRADATIONAL CNT.

HOLE NO: ML-91-63
CASING COLLAR ELEV.: GROUND ELEV.:
COORDINATES: 7+25 N. 1+22 E/W
INCLINATION: -55° BEARING: 240°

PROJECT: 1446 McVICAR LAKE
DATE STARTED: FEB 9, 1991
DATE FINISHED: FEB 10, 1991
TOTAL DEPTH: 289'

REF. TO CLAIM CORNER:
SCALE: 1"=0'
LOGGED BY: CJW

SECTION	ALTERATION: SILICIFICATION	ALTERATION: GREEN MICA	ALTERATION: SERICITE	ALTERATION: CARBONATE	FRACTURING	MINERAL: QTZ VN	GEOLOGY	COMMENTS	AVE CORE REC'Y / HOLE	% SULPHIDES PY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
190								DESCRIPTIVE GEOLOGY								
								174.5'- 209.0' BRECCIATED/SHEARED BASALT CON'T...		TR		100	BQ			
											189			189.0		
										TR		100		194.0	5.0'	3140
														199.0	5.0'	3141
											199					
								209.0'- 249.0 NORTH ZONE								
								209.0'- 223.0' SHEARED BASALT		TR		100		204.0	5.0'	3142
								MEDIUM TO LIGHT GREEN, FINE GRAINED, MODERATELY TO STRONGLY SHEARED @ 70-75° TO CA. MODERATELY SERICITIC BETWEEN 214.5'- 217.0' AND 218.5-219.5'. 2-4 cm QUARTZ VEINS ASSOCIATED WITH THESE ZONES, MINOR GREEN MICA AS WELL. NONE SERICITIC UNITS CONTAIN TRACE TO 2% PYRITE WHILE SERICITIC UNITS CONTAIN 3-5% PYRITE WITH TRACE TO 2% PYRITE IN QUARTZ VEINS.						209.0	5.0'	3143
								GRADATIONAL CNT.			209					
								SHEARING INCREASES ↓		TR to 1				211.7	2.7'	3144
												100		214.5	2.8'	3145
										3-5				217.0'	2.5'	3146
										TR-2				219.5'	2.5'	3147
								223.0'- 224.3' QUARTZ/SULPHIDE ZONE			219					
								MEDIUM GREY, WEAKLY TO MODERATELY SHEARED @ 70-75° TO CA. 70% QUARTZ AND 30% SHEARED MAFIC. 10-20% PYRITE, ≈1mm GRAINS.		2-3				223.0	3.5' (3.0)	3148
								SULPHIDE ZONE		10-20		90		224.3	1.3'	3149
								224.3'- 229.0' SHEARED BASALT		5-7				229.0	4.7' (4.0)	3150
								MEDIUM TO LIGHT GREEN, FINE GRAINED, STRONGLY SHEARED @ 70° TO CA. MINOR AMOUNT OF GREEN MICA, MINOR CARBONATE AND SERICITE. 5-7% PYRITE, MUCH OF WHICH IS DISSOLVED AND PITTED OUT.			229					
230								GRADATIONAL CNT.								
								RUBBLE		TR		25			10.0' (2.5)	3151
								229.0'- 249.0' SHEARED BASALT			239			239.0		
								MEDIUM GREEN, FINE TO MEDIUM GRAINED, MODERATELY SHEARED								

293.0

HOLE NO. ML-91-63
CASING COLLAR ELEV.: GROUND ELEV.:
COORDINATES: 7+25 N. 1+22 E.W
INCLINATION: -55° BEARING: 240°

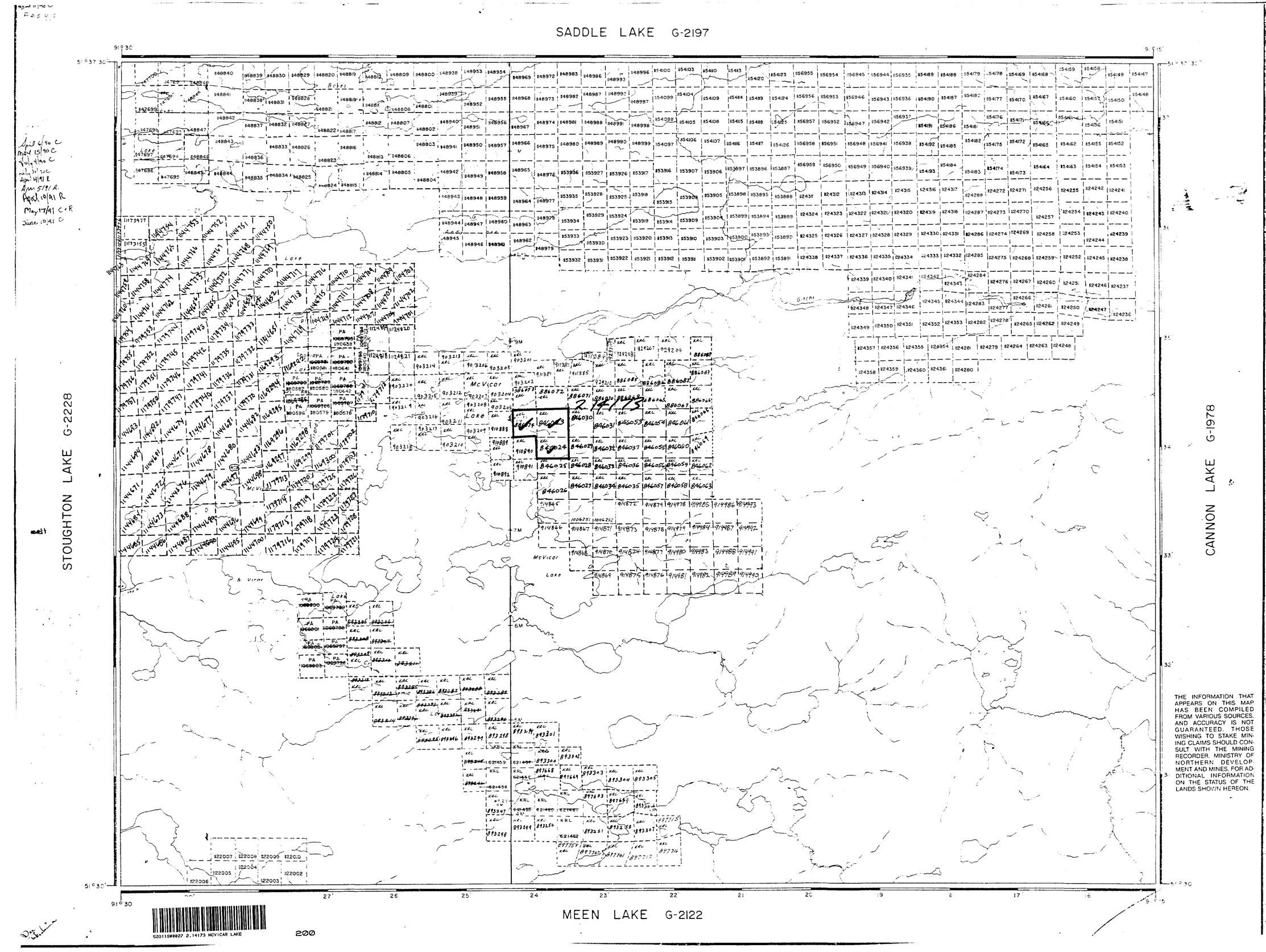
PROJECT: 1446 McVICAR LAKE
DATE STARTED: FEB 9, 1991
DATE FINISHED: FEB 10, 1991
TOTAL DEPTH: 289'

REF. TO C[illegible]IM CORNER:
SCALE: 10'
LOGGED B CJW

COMMENTS:

AVE CORE REC'Y / HOLE

SECTION	ALTERATION: CARBONATE	FRACTURING	MINERAL	GEOLOGY	DESCRIPTIVE GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT.	ESTIMATED
240				RUBBLE	229.0'-249.0' SHEARED BASALT CON'T... @60° TO CA. TRACE PYRITE. (VERY BROKEN-UP AND VERY POOR RECOVERY).	PY TR		15	BQ	239.0	10.0' (1.5)	3152
				BROKEN CNT.			249			249.0'		
				RUBBLE	249.0'-259.0' BRECCIATED/VUGGY BASALT DARK GREEN, FINE TO MEDIUM GRAINED, WEAKLY SHEARED AND VUGGY (BRECCIATED WITH CARBONATE DISSOLVED OUT). AGAIN, VERY BROKEN-UP AND VERY POOR RECOVERY. NO PYRITE NOTED.	NIL		15			10.0' (1.5)	3153
				BROKEN CNT.			259			259.0		
				DECREASING KAOLINIZATION	259.0'-289.0' KAOLINIZED TONALITE LIGHT GREY WHITE, FINE TO MEDIUM GRAINED, VERY BROKEN-UP PLAGIOCLASE WEATHERED TO KAOLINITE, DECREASING ALTERATION DOWN HOLE. TRACE PYRITE NOTED.	TR		60		264.0	5.0 (3.0)	3154
						TR	269	90				
280						TR	279	80				
				DIP TEST 55°	END OF HOLE		289					
230												



THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

LEGEND

HIGHWAY AND ROUTE NO.
OTHER ROADS
TRAILS
SURVEYED LINES
TOWNSHIPS, BASE LINES, ETC.
LOTS, MINING CLAIMS, PARCELS, ETC.
UNSURVEYED LINES
LOT LINES
PARCEL BOUNDARY
MINING CLAIMS, ETC.
RAILWAY AND RIGHT OF WAY
UTILITY LINES
NON PERENNIAL STREAM
FLOODING OR FLOODING RIGHTS
SUBDIVISION OR COMPOSITE PLAN
RESERVATIONS
ORIGINAL SHORELINE
MARSH OR MUSKEG
MINES
TRAVERSE MONUMENT
REMOTE TOURIST SET-UP

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	◑
" MINING RIGHTS ONLY	◒
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	◨
" MINING RIGHTS ONLY	◩
LICENCE OF OCCUPATION	▼
ORDER IN COUNCIL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE, PRIOR TO THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC.

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+S. – MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
89.07J0				
AUG. 14/89				
AUGUST 25/89.				

FEB 17/87
JUN 20/87
AUG 5/87
June 13/90

T.L.C. – TRAP LINE CABIN

SCALE 1 INCH = 40 CHAINS

FEET 0 100 200 400 600 800
METRES 0 200 1000 2000 1 KM 2 KM

AREA

McVICAR LAKE

M.N.R. ADMINISTRATIVE DISTRICT
SIOUX LOOKOUT
MINING DIVISION
PATRICIA
LAND TITLES / REGISTRY DIVISION
KENORA (PATRICIA PORTION)

Ministry of Natural Resources — Land Management Branch
Ontario

Date JANUARY, 1984

Number G-2121

S2011SW0027 2.14173 MCVICAR LAKE

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