

FIELDS CANADIAN MINING

A Consolidated Gold Fields Group Company



31M13NW0043 2.13081 CATHARINE

010

P.O. BOX 1150
Timmins, Ontario P4N 7H9
(705) 268-6060

February 1, 1990

Mining Recorder
Ministry of Northern Development and Mines
Larder Lake Mining Division
4 Government Rd. E.
Kirkland Lake, Ontario
P2N 1A2

Gentlemen:

This is to certify that for the period May 1, 1989 to November 1, 1989, Gold Fields Canadian Mining Limited incurred and paid contract assaying charges in the amount of CDN. \$24,706.20 on claims in Catharine Township in the Larder Lake Mining Division. All of these charges were paid to TSL Laboratories with offices at 2031 Riverside Dr., Unit No. 2, Timmins, Ontario, and 1270 Fewster Drive, Unit 3, Mississauga, Ontario.

A list of the claims on which the work was done is attached.

If any additional information is needed, I may be contacted at:

200 Union Blvd. - Suite 500
Lakewood, Colorado 80228
U.S.A.
Phone: (303) 988-0360

Yours very truly,

GOLD FIELDS CANADIAN MINING LIMITED

D. A. Connell
Assistant Treasurer

DAC/pk
Attachment



T S L LABORATORIES

DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED

2031 RIVERSIDE DRIVE, UNIT #2
TIMMINS, ONTARIO
P4N 7C3

☎ (705) 268-4441 FAX: (705) 268-4420

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2467

SAMPLE(S) OF Core

INVOICE #: 2325
P.O.: C-BD-89-1

REMARKS: Received Feb.9/89

	Au ppb
TW2251	15 ↓
TW2252	15 ↓
TW2253	20
TW2254	5
TW2255	10
TW2256	15
TW2257	15
TW2258	10
TW2259	15
TW2260	10 Clm. 993800
TW2261	10
TW2262	10
TW2263	30
TW2264	10
TW2265	10
TW2266	10
TW2267	10
TW2268	15
TW2269	20
TW2270	15 ↑

c 89-1
47.0' - 145.0'

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GOLD FIELDS CANADIAN MINING LIMITED

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Feb 14/89

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467-C Preston Lane
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P4N 7H9

REPORT No.
W2467

SAMPLE(S) OF Core

INVOICE #: 2325
P. O. : C-BD-89-1

REMARKS: Received Feb.9/89

	Au ppb
TW2271	50
TW2272	15
TW2273	15
TW2274	10
TW2275	20
TW2276	15
TW2277	10
TW2278	10
TW2279	30
TW2280	15
TW2281	15
TW2282	15
TW2283	10
TW2284	15
TW2285	15
TW2286	15
TW2287	10
TW2288	10
TW2289	10
TW2290	15

C 89-1

145'-245'

Ch. 893800

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P4N 7H9

REPORT No.

W2467

SAMPLE(S) OF Core

INVOICE #: 2325

P.O.: C-BD-89-1

REMARKS: Received Feb.9/89

	Au ppb
TW2291	15
TW2292	10
TW2293	10
TW2294	15
TW2295	15
TW2296	15
TW2297	10
TW2298	15
TW2299	15
TW2300	10
TW2301	5
TW2302	15
TW2303	15
TW2304	10
TW2305	5
TW2306	10

C89-1
47'-325'
245'-325'
Clm. 893800

AWP
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GOLD FIELDS CANADIAN MINING LIMITED

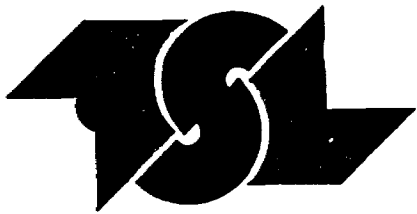
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TIMMINS, ONTARIO
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SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2482

SAMPLE(S) OF Core

INVOICE #: 2336
P. O. : C-BD-89-2

	Au ppb
TW-2307	10
TW-2308	5
TW-2309	5
TW-2310	5
TW-2311	10
TW-2312	10
TW-2313	5
TW-2314	5
TW-2315	10
TW-2316	10
TW-2317	25
TW-2318	10
TW-2319	10
TW-2320	10
TW-2321	10
TW-2322	10
TW-2323	30
TW-2324	140
TW-2325	10
TW-2326	10

6 89-1

325' - 425'

Chm. 993800

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GOLD FIELDS CANADIAN MINING LIMITED

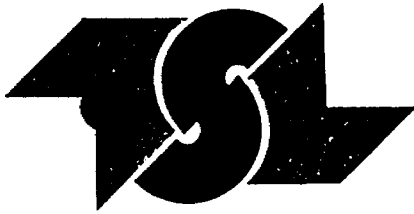
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P4N 7C3

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Gold Fields Canadian Mining. Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.

W2482

SAMPLE(S) OF

Core

INVOICE #: 2336

P.O.: C-BD-89-2

	Au ppb
TW-2327	10
TW-2328	10
TW-2329	5
TW-2330	15
TW-2331	5
TW-2332	5
TW-2333	5
TW-2334	5
TW-2335	5
TW-2336	5
TW-2337	5
TW-2338	160
TW-2339	5
TW-2340	40
TW-2341	15
TW-2342	5
TW-2343	5
TW-2344	5
TW-2345	5
TW-2346	20

C 89-1

425' - 520'

Clm. 893800

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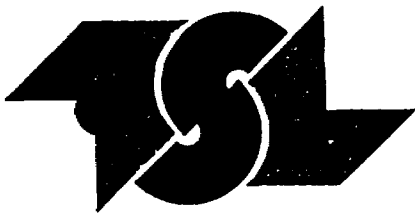
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Timmins, Ontario
P4N 7H9

REPORT No.
W2482

SAMPLE(S) OF Core

INVOICE #: 2336
P.O.: C-BD-89-2

	Au ppb
TW-2347	5
TW-2348	10
TW-2349	10
TW-2350	10
TW-2351	15
TW-2352	10
TW-2353	10
TW-2354	15
TW-2355	15
TW-2356	20
TW-2357	10
TW-2358	10
TW-2359	10
TW-2360	10
TW-2361	35
TW-2362	5
TW-2363	10
TW-2364	10
TW-2365	20
TW-2366	15

C89-1

520' - 620'

Clm. 893800

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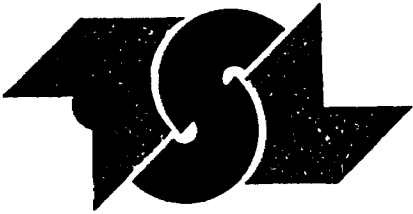
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Timmins, Ontario
P4N 7H9

REPORT No.
W2481

SAMPLE(S) OF core

INVOICE #: 2335
P.O.: c-BD-89-3

	Au ppb
TW-2367	40
IW-2368	30
TW-2369	10
TW-2370	10
TW-2371	30
TW-2372	100
TW-2373	50
TW-2374	20
TW-2375	20
TW-2376	10
TW-2377	10
TW-2378	5
TW-2379	25
TW-2380	40
TW-2381	150
TW-2382	30
TW-2383	10
TW-2384	10
TW-2385	30
TW-2386	75

*DOH C89-1
620'-707'*

Clm. 893800

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467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2498

INVOICE #: 2412

P.O.: C-BD-89-4

SAMPLE(S) OF core

	Au ppb
TW-2387	35
TW-2388	40
TW-2389	110
TW-2390	95
TW-2391	30
TW-2392	50
TW-2393	30
TW-2394	50
TW-2395	140
TW-2396	130
TW-2397	55
TW-2398	40
TW-2399	45
TW-2400	140
TW-2401	25
TW-2402	45
TW-2403	40
TW-2404	30
TW-2405	30
TW-2406	100

C 89-2

43.0 - 143.0

Clm. 1046146

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P4N 7C3

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467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2498

SAMPLE(S) OF core

INVOICE #: 2412
P.O.: C-BD-89-4

	Au ppb
TW-2407	100
TW-2408	75
TW-2409	240
TW-2410	70
TW-2411	30
TW-2412	15
TW-2413	40
TW-2414	10
TW-2415	10
TW-2416	20
TW-2417	10
TW-2418	15
TW-2419	10
TW-2420	15
TW-2421	10
TW-2422	30
TW-2423	10
TW-2424	10
TW-2425	35
TW-2426	15

C89-2

143'-243'

Clm. 1046146

↓

↑

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P4N 7C3

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Timmins, Ontario
P4N 7H9

REPORT No.
W2498

INVOICE #: 2412

P.O.: C-BD-89-4

SAMPLE(S) OF core

	Au ppb
TW-2427	25 ↓
v-2428	15
1W-2429	25
TW-2430	20
TW-2431	10
TW-2432	10
TW-2433	15
TW-2434	15
TW-2435	80
TW-2436	20 Cm. 1046146
TW-2437	15
TW-2438	220
TW-2439	30
TW-2440	15
TW-2441	15
TW-2442	15
TW-2443	15
TW-2444	50
TW-2445	15
TW-2446	15 ↑

C 89-2

243'-342'

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467-C Preston Lane
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Timmins, Ontario
P4N 7H9

REPORT No.

W2498

SAMPLE(S) OF

core

INVOICE #: 2412

P.O.: C-BD-89-4

	Au ppb
TW-2447	30 ↓
IW-2448	10
TW-2449	25
TW-2450	10
TW-2451	15
TW-2452	70 <i>Clm 1046146</i>
TW-2453	10
TW-2454	10
TW-2455	15
TW-2456	10
TW-2457	40 ↑
TW-2458	40 ↓
TW-2459	10
TW-2460	10
TW-2461	20
TW-2462	10 <i>Clm 1046147</i>
TW-2463	25
TW-2464	15
TW-2465	40
TW-2466	35 ↑

C 89-2

342' - 442'

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Timmins, Ontario
P4N 7H9

REPORT No.
W2498

SAMPLE(S) OF core

INVOICE #: 2412

P.O.: C-BD-89-4

	Au ppb
TW-2467	20
TW-2468	15
TW-2469	15
TW-2470	75
TW-2471	15
TW-2472	35
TW-2473	15
TW-2474	25
TW-2475	70
TW-2476	20
TW-2477	35
TW-2478	25
TW-2479	30
TW-2480	20
TW-2481	15
TW-2482	60
TW-2483	20
TW-2484	25
TW-2485	30
TW-2486	30

C 89-2

442-533'

Clm. 1046147

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GOLD FIELDS CANADIAN MINING LIMITED

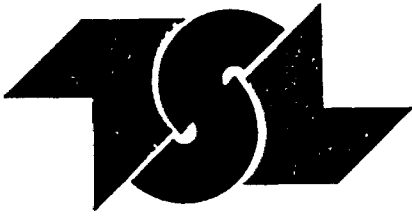
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P4N 7C3

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Timmins, Ontario
P4N 7H9

REPORT No.
W2498

SAMPLE(S) OF core

INVOICE #: 2412
P.O.: C-BD-89-4

Au
ppb

TW-2487	15	↓
✓-2488	55	
TW-2489	30	
TW-2490	20	Clm. 106147
TW-2491	15	
TW-2492	20	↑

533'-563'

C89-2

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Timmins, Ontario
P4N 7H9

REPORT No.
W2504

SAMPLE(S) OF core

INVOICE #: 2416
P.O.: C-BD-89-5

	Au ppb
TW 2493	20 ↓
TW 2494	15 ↓
TW 2495	30
TW 2496	10
TW 2497	10 Cm. 1046147
TW 2498	5
TW 2499	10
TW 2500	10
TW 2501	5 ↑
TW 2502	20 ↑
TW 2503	20
TW 2504	15
TW 2505	10
TW 2506	10 Cm. 821433
TW 2507	5
TW 2508	10
TW 2509	15
TW 2510	10
TW 2511	10
TW 2512	10 ↑

batchwise
DO H 89-2+3
2 - 563.0 - 609.0
3 - 24.0 - 80.0

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P4N 7C3

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CERTIFICATE OF ANALYSIS

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467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.

W2504

INVOICE #: 2416

P.O.: C-BD-89-5

SAMPLE(S) OF _{core}

Au
ppb

TW 2513	15	↓
/ 2514	15	
TW 2515	15	
TW 2516	10	
TW 2517	10	
TW 2518	10	
TW 2519	15	
TW 2520	15	
TW 2521	10	
TW 2522	10	Clm. 821433
TW 2523	10	
TW 2524	15	
TW 2525	10	
TW 2526	15	
TW 2527	10	
TW 2528	15	
TW 2529	10	
TW 2530	10	
TW 2531	10	
TW 2532	10	↑

DOH
C89-3

80'-180'

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Timmins, Ontario
P4N 7H9

REPORT No.
W2504

INVOICE #: 2416

P.O.: C-BD-89-5

SAMPLE(S) OF core

Au
ppb

TW 2533	20	↓
TW 2534	10	
TW 2535	15	
TW 2536	15	
TW 2537	5	
TW 2538	10	
TW 2539	10	
TW 2540	5	
TW 2541	10	
TW 2542	5	Clm. 821433
TW 2543	5	
TW 2544	15	
TW 2545	5	
TW 2546	10	
TW 2547	10	
TW 2548	10	
TW 2549	10	
TW 2550	15	
TW 2551	5	
TW 2552	5	↑

DOH
C 89-3,
180'-280'

While we believe this information to have been obtained in accordance with standard industry practices, we make no representation with respect to, nor do we assume any responsibility for the correctness thereof.

GOLD FIELDS CANADIAN MINING LIMITED

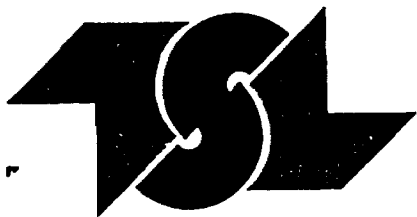
COPIES TO: Timmins, Toronto
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Feb 23/89

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T S L LABORATORIES

DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED

2031 RIVERSIDE DRIVE, UNIT #2

TIMMINS, ONTARIO

P4N 7C3

☎ (705) 268-4441 FAX: (705) 268-4420

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2506

SAMPLE(S) OF core

INVOICE #: 2417

P.O.: C-BD-89-6

Au
ppb

TW 2573	5	↓
N 2574	40	↓
TW 2575	<5	
TW 2576	10	
TW 2577	5	
TW 2578	20	
TW 2579	25	Clm. 821434
TW 2580	35	
TW 2581	25	
TW 2582	25	
TW 2583	25	
TW 2584	110	
TW 2585	20	
TW 2586	10	
TW 2587	10	
TW 2588	10	
TW 2589	10	
TW 2590	10	
TW 2591	10	
TW 2592	10	↑

689-3

380' - 480'

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GOLD FIELDS CANADIAN MINING LIMITED

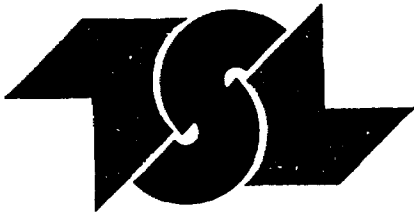
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TIMMINS, ONTARIO

P4N 7C3

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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2506

INVOICE #: 2417

P.O.: C-BD-89-6

SAMPLE(S) OF core

	Au ppb
TW 2593	10
TW 2594	10
TW 2595	10
TW 2596	10
TW 2597	5
TW 2598	5
TW 2599	5
TW 2600	85
TW 2601	10
TW 2602	25
TW 2603	20

C 89-3

480' - 534.3'

Clm. 821434

We... standard... We make no representation with respect to, nor do we assume any responsibility for the correctness thereof.
GOLD FIELDS CANADIAN MINING LIMITED

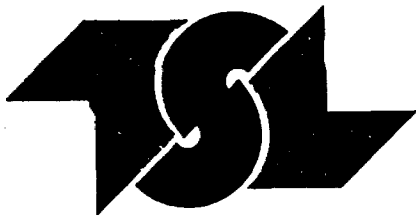
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2031 RIVERSIDE DRIVE, UNIT #2
TIMMINS, ONTARIO
P4N 7C3

☎ (705) 268-4441 FAX: (705) 268-4420

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2505

INVOICE #: 2419
P.O.: C-BD-89-7

SAMPLE(S) OF core

REMARKS: "RUSH"

	Au ppb	Au ozpt	Mo ppm
TW 2624	160 ↓		
TW 2625	20		
TW 2626	20		
TW 2627	35		
TW 2628	35		
TW 2629	10		
TW 2630	10		
TW 2631	25		
TW 2632	10		
TW 2633	15		
TW 2634	40		
TW 2635	260		
TW 2636	>1000	0.042	
TW 2637	200		
TW 2638	230		14
TW 2639	60		42
TW 2640	80		210
TW 2641	10		28
TW 2642	5		10
TW 2643	20 ↑		12

*batchwise
DOH C 89-3*

611.0 - 673.0

Clm. 821434

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2031 RIVERSIDE DRIVE, UNIT #2

TIMMINS, ONTARIO

P4N 7C3

☎ (705) 268-4441 FAX: (705) 268-4420

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.

W2505

SAMPLE(S) OF

core

INVOICE #: 2419

P.O.: C-BD-89-7

REMARKS: "RUSH"

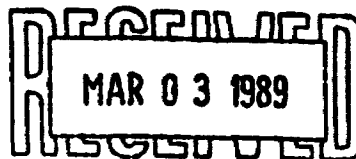
	Au ppb	Au oz pt	Mo ppm
TW 2644	110		10
TW 2645	95		6
TW 2646	10		12
TW 2647	15		12
TW 2648	70		16
		Clm. 821434	
TW 2649	15		
TW 2650	20		

batchwise
DDH 89-3

673.0 - 697.0

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P4N 7C3

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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

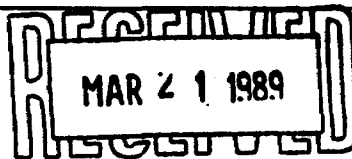
REPORT No.
W2542

INVOICE #: 2465

P.O.: C-BD-89-7

SAMPLE(S) OF rejects

Free Metallics



REMARKS: From W2505, C-BD-89-7

	Au ozt + 100	Au ozt - 100	Au ozt Total	Wt g + 100	Wt g - 100	Wt g Total	
TW 2618	0.012	0.015	0.015	138.7	1578.0	1716.7	↓ Chn. 921434 ↑
TW 2636	0.042	0.028	0.030	152.7	1172.1	1324.8	

*Catherine
6 89-3*

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GOLD FIELDS CANADIAN MINING LIMITED

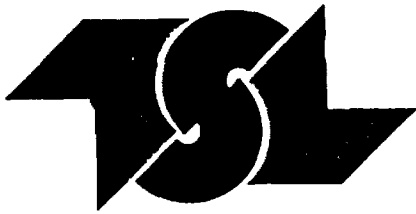
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P4N 7C3

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CERTIFICATE OF ANALYSIS

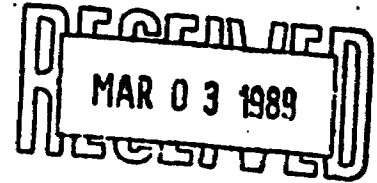
SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2507

INVOICE #: 2421
P.O.: C-BD-89-8

SAMPLE(S) OF CORE

	Au ppb
TW 2651	20
W 2652	15
LW 2653	10
TW 2654	5
TW 2655	5
↓	
TW 2656	140
TW 2657	110
TW 2658	15
TW 2659	5
TW 2660	25
Clm. 821434	
TW 2661	10
TW 2662	10
TW 2663	10
TW 2664	25
TW 2665	15
<i>leatherline</i>	
<i>20H 89-3</i>	
TW 2666	10
TW 2667	10
TW 2668	10
TW 2669	20
<i>697'-787'</i>	
↑	



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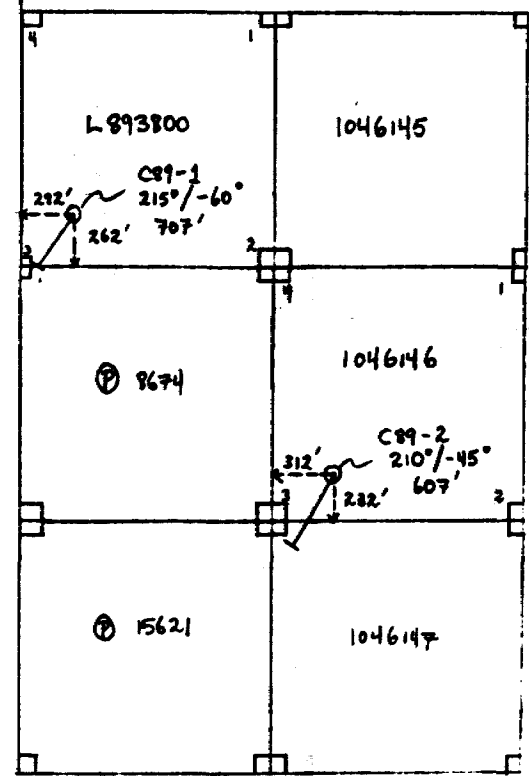
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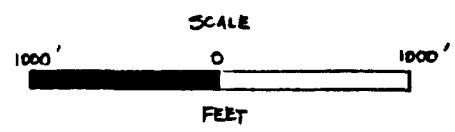
LOTS LOT 4



CON. 3
CON. 2

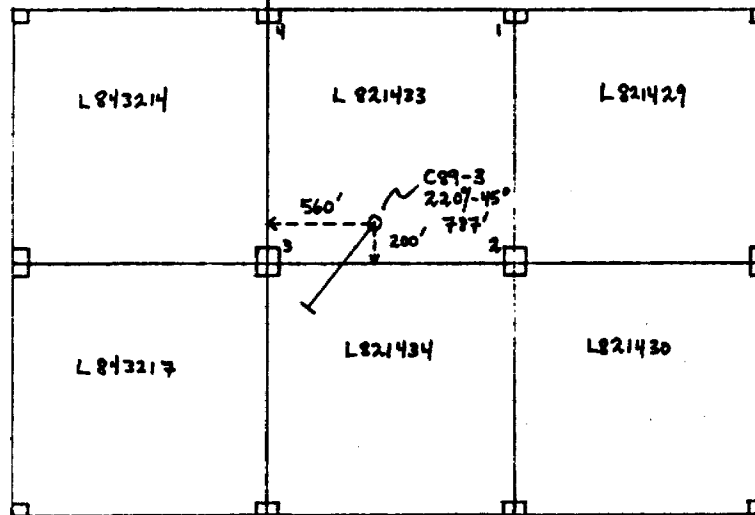
EXPLANATION

- Ⓟ Patented Claim
- 1046145 Claim Number
-  Claim Post Designations
-  Diamond Drill Hole



Division	GOLD FIELDS MINING CORP.	
Month/Day/Year	CATHARNE TOWNSHIP DRILLHOLE LOCATIONS C89-1, C89-2	
Scale:	Map No.	
Date: 59/02/37		
Drawn By:	N.T.S.	



LOT 7 | LOT 6

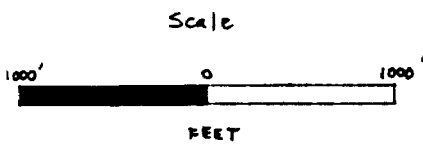


CON. 4

CON. 3

EXPLANATION

- 843217 Claim Number
-  Claim Post Designation
-  Diamond Drill Hole



Revised	GOLD FIELDS MINING CORP.	
Month/Day/Year	CATHARINE TOWNSHIP DRILLHOLE LOCATIONS C89-3	
	Scale:	Map No.
	Date: 09/02/27	
	Drawn By:	N.T.B.



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TIMMINS, ONTARIO

P4N 7C3

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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2606

SAMPLE(S) OF ROCK

INVOICE #: 2526

P.O.: C-PC-89-1

	Au ppb
TW2670	140
TW2671	80
TW2672	55
TW2673	60
TW2674	140
TW2675	35
TW2676	25
TW2677	15
TW2684	84
TW2685	25
TW2686	250
TW2687	20
TW2688	15
TW2689	20
TW2690	50
TW2691	310

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MAY 19 1989

*Customer
Support*
[Signature]

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May 18/89

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TIMMINS, ONTARIO

P4N 7C3

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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2606

INVOICE #: 2526

P.O.: C-PC-89-1

SAMPLE(S) OF ROCK

	Au ppb
TW2692	55
TW2693	15
TW2694	25
TW2695	15
TW2696	15
TW2697	40
TW2698	140

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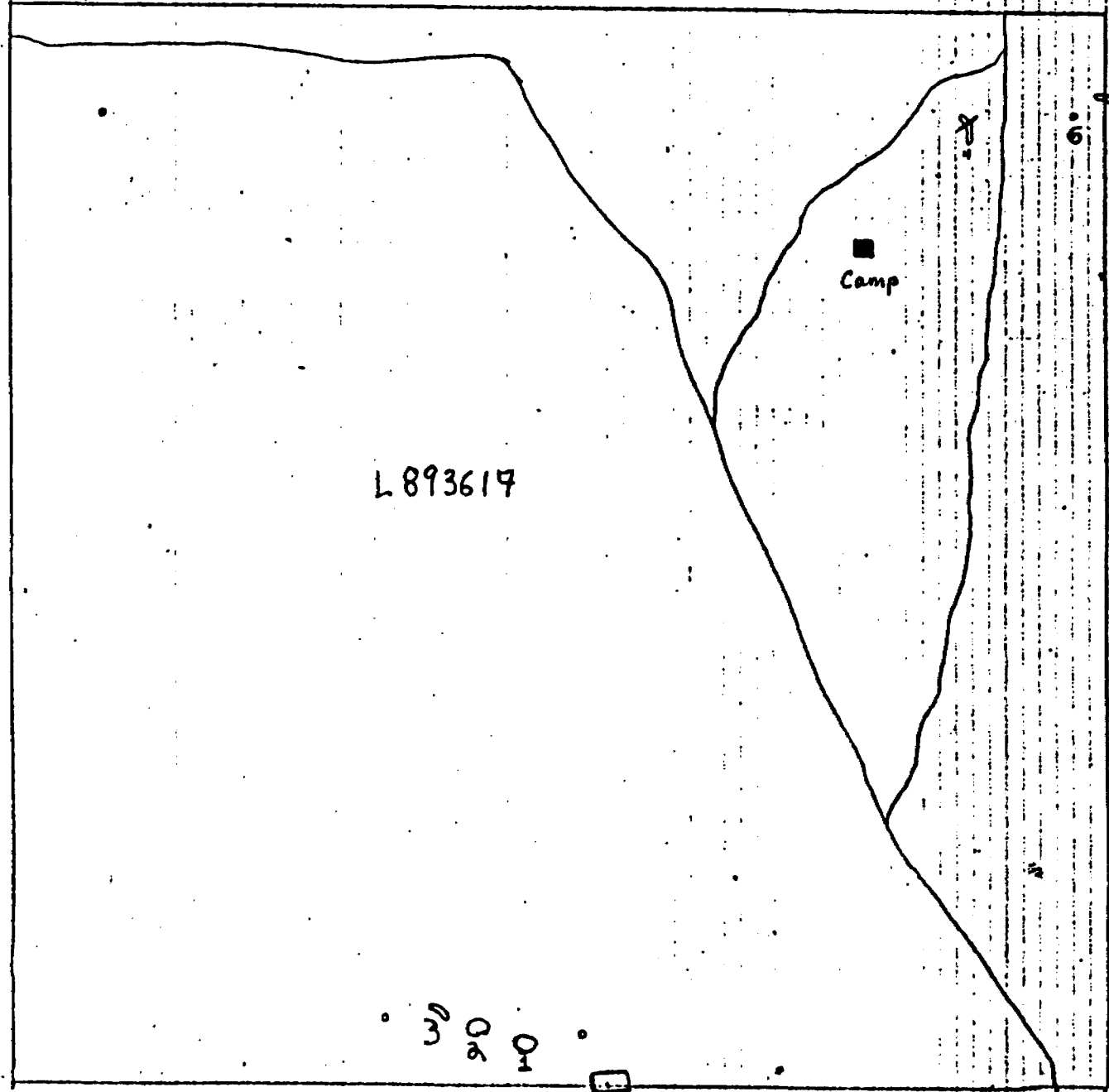


CALHOUN TWP.

rw-2670-2677.

rw-2684-2698

C-PC-89-1



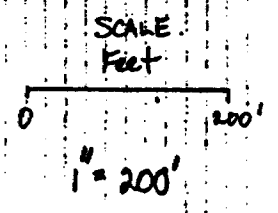
L 893617

Camp

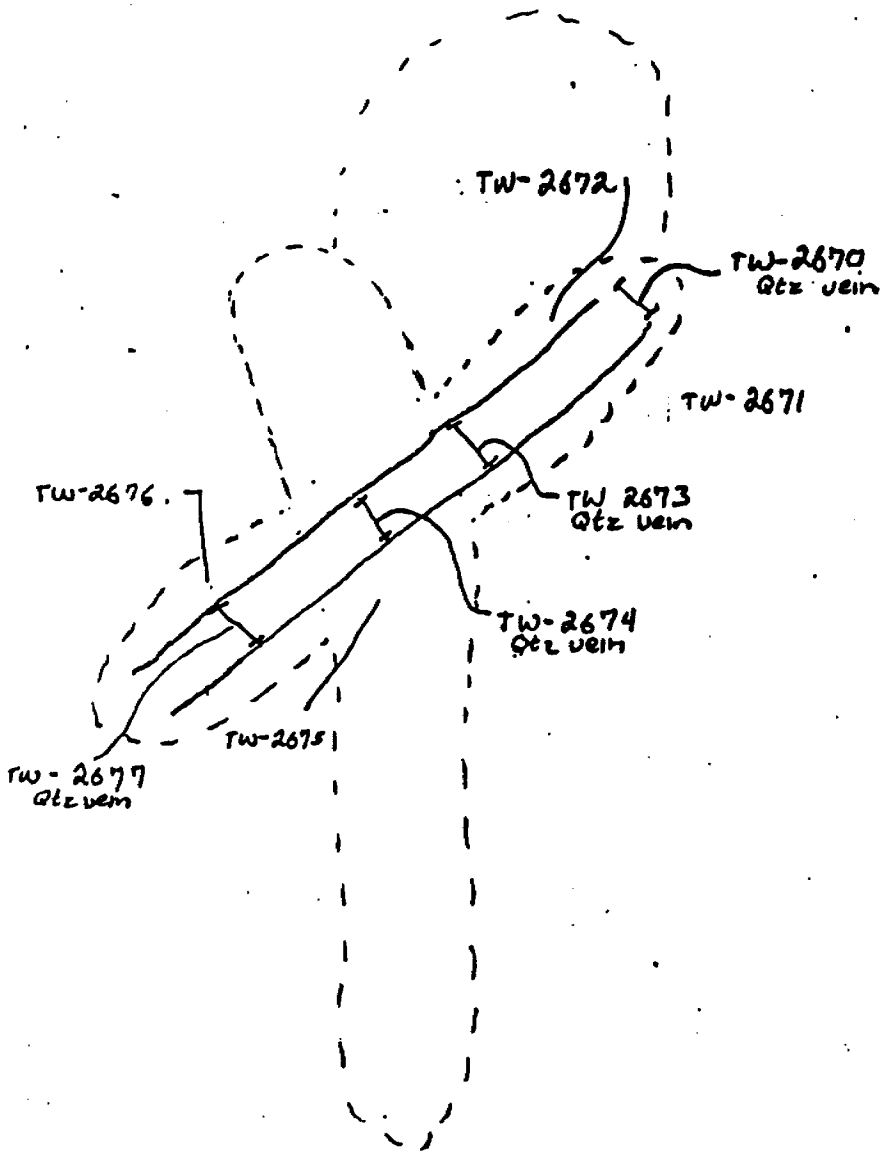
30
20
10

Base Line
Showing

— Road



TW 2670 - TW 2677



SCALE

Feet



Trench 4

1" = 3ft

2

Claim line

TW 2684 - TW 2689

TW-2688
(possible
boulder)
Qtz vein

TW-2685

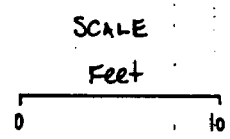
TW-2686
Qtz vein Grab

50ft

TW-2684
Qtz vein
Grab

TW-2687
Rhyolacite

TW-2689
Qtz vein
0.60

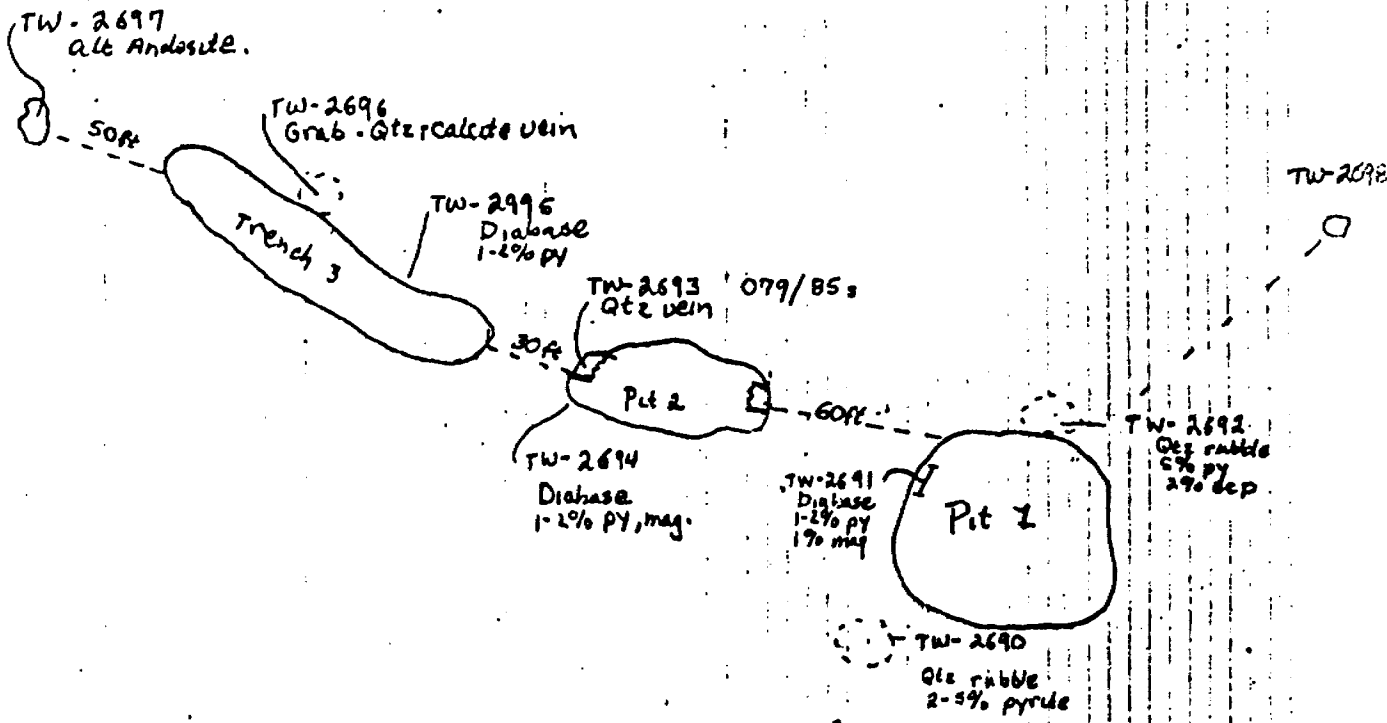


Trench 5
O/C + 6

1 in = 10 ft

TW 2690 - TW 2698

N
↑



1 in = 10 ft



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DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED

2031 RIVERSIDE DRIVE, UNIT #2

TIMMINS, ONTARIO

P4N 7C3

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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2608

INVOICE #: 2530
P.O.: C-PC-89-2

SAMPLE(S) OF rock

Bram Drost

	Au ppb	Cu ppm
TW-2699	15	<i>Annett Cmn 893619</i>
TW-2701	40	
TW-2702	10	
TW-2703	10	
TW-2704	15	
TW-2705	10	<i>Annett Cmn 893619</i>
TW-2706	20	
TW-2707	10	
TW-2708	15	
TW-2709	10	
TW-2710	20	155
TW-2711	15	62 <i>Berner</i>
TW-2712	25	72
TW-2713	10	16 <i>Shewing</i>
TW-2714	15	89 <i>Catherine Project</i>
TW-2715	10	400
TW-2716	15	
TW-2717	30	69

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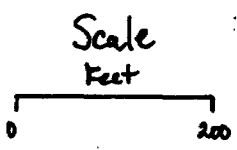
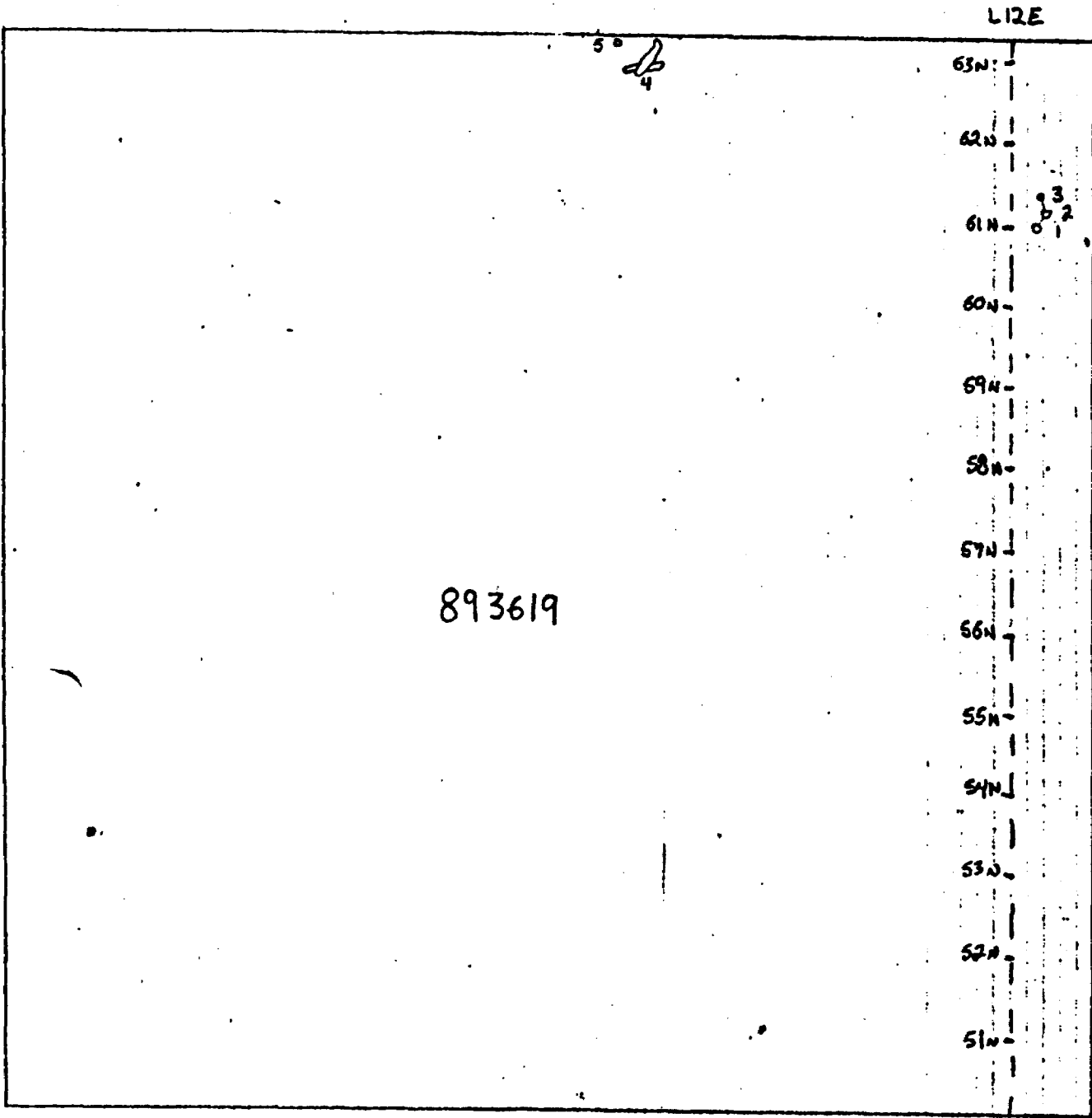
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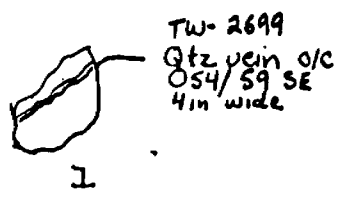
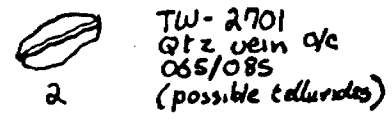
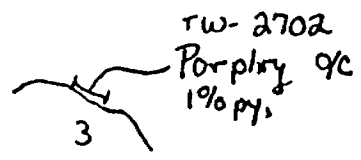
Catharine Twp.
TW-2699
TW-2701-2706.

N
↑



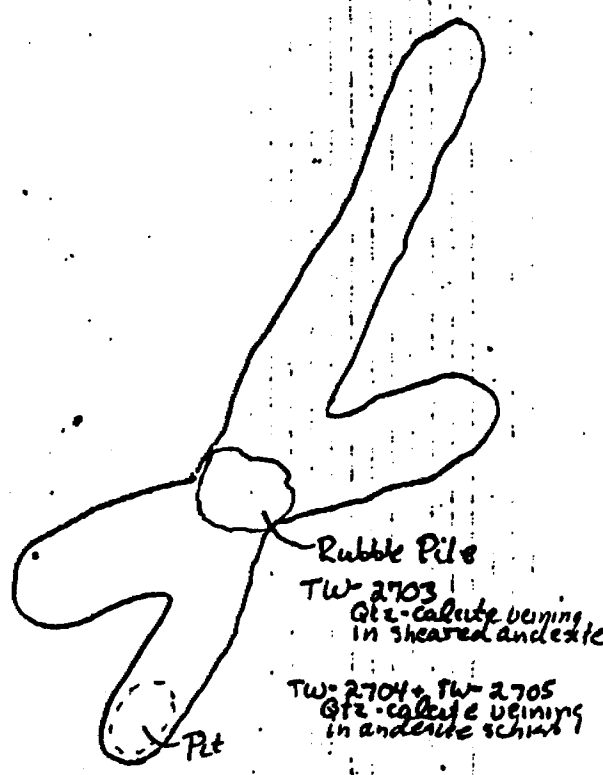
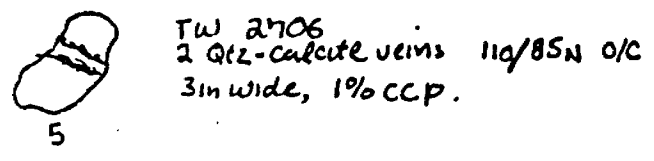
1" = 200ft

TW 2699 - TW 2702



1" = 10ft

TW 2703 - TW 2706



* Trench + Pit are Filled in.

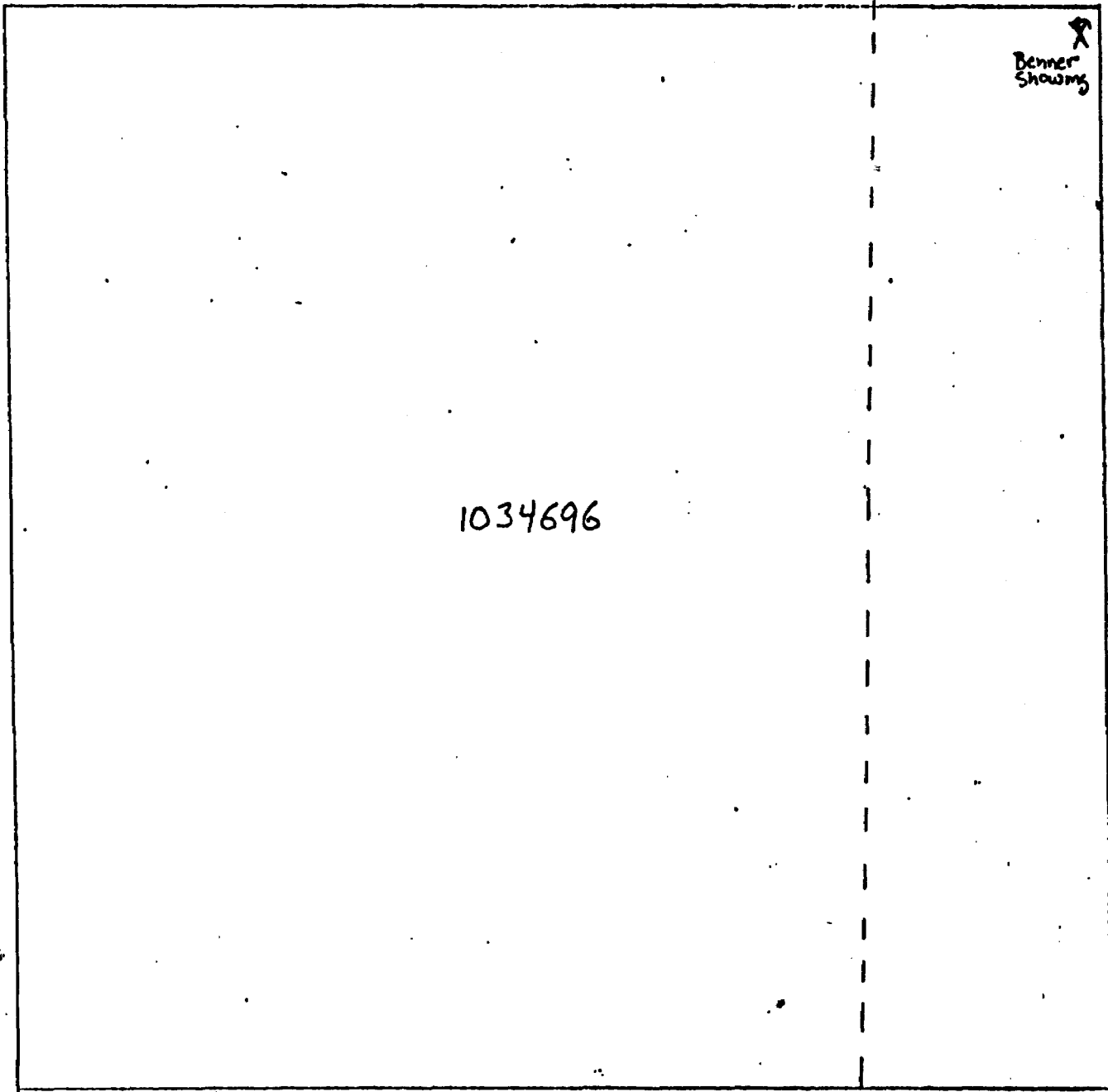
Trench 4

1in = 25ft

Benner Showing Catharine TWP.
TW-2707-TW2717.

N
↑

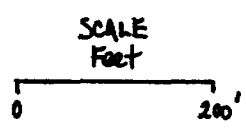
L52100E



1034696

X
Benner
Showing

TL-3 41E 42E 43E 44E 46E 46E 47E 48E 49E 50E 51E 53E 54E 55100E TL-3

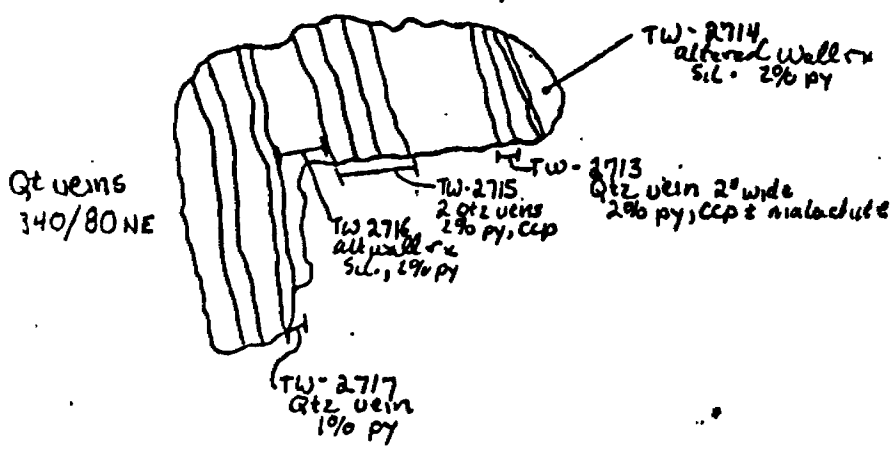
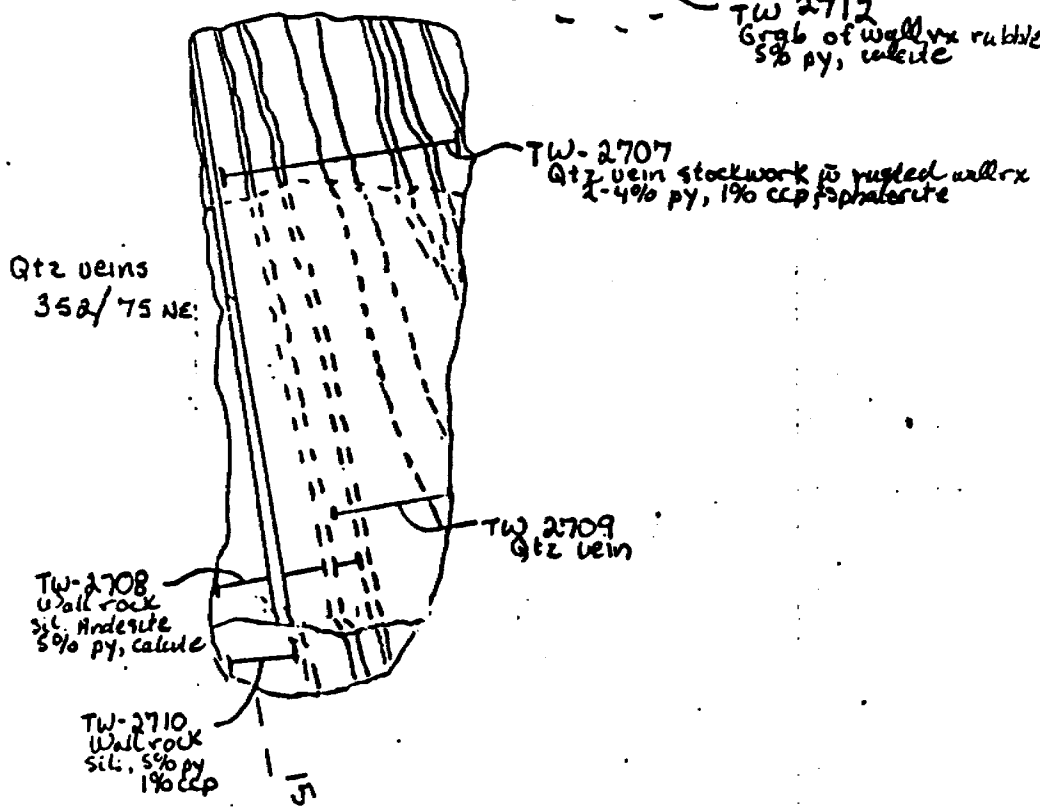
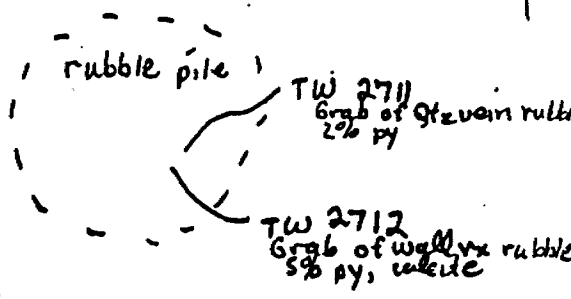


L52100E

1" = 200ft.

TW 2707-2717

N
↑



1" = 3ft



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DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED

2031 RIVERSIDE DRIVE, UNIT #2

TIMMINS, ONTARIO

P4N 7C3

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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2609

SAMPLE(S) OF rock

INVOICE #: 2531

P.O.: TR-BD-89-1

Bram Drost

Au
ppb

TR4426 260
TR4427 240
TR4428 300
TR4429 970
TR4430 620

TR4431 390
TR4432 30
TR4433 25
TR4434 <5
TR4435 10

TR4436 360
TR4437 390
TR4438 95
TR4439 65
TR4440 30

TR4441 130
TR4442 260
TR4443 35
TR4444 290
TR4445 150

*Ch. 1049179
Main showing
area*

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*Barbarie Sup.
OK
[Signature]*

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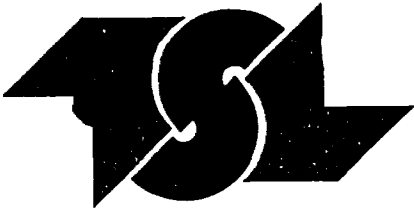
May 19/89

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[Signature]

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TIMMINS, ONTARIO
P4N 7C3

☎ (705) 268-4441 FAX: (705) 268-4420

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2609

INVOICE #: 2531
P.O.: TR-BD-89-1

SAMPLE(S) OF Rock

Bram Drost

	Au		
	ppb		
TR4446	210	Main showing	↓
TW2718	15	Small pit on quartz vein	Ch. 1049179
TW2719	5		
TW2720	5	quartz veinlet	
TW2721	10		↑

While we believe this information to have been obtained in accordance with standard industry practices, we make no representation with respect to, nor do we assume any responsibility for the correctness thereof.
GOLD FIELDS CANADIAN MINING LIMITED

Bethanie Dup
OK [Signature]

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May 19/89

SIGNED [Signature]

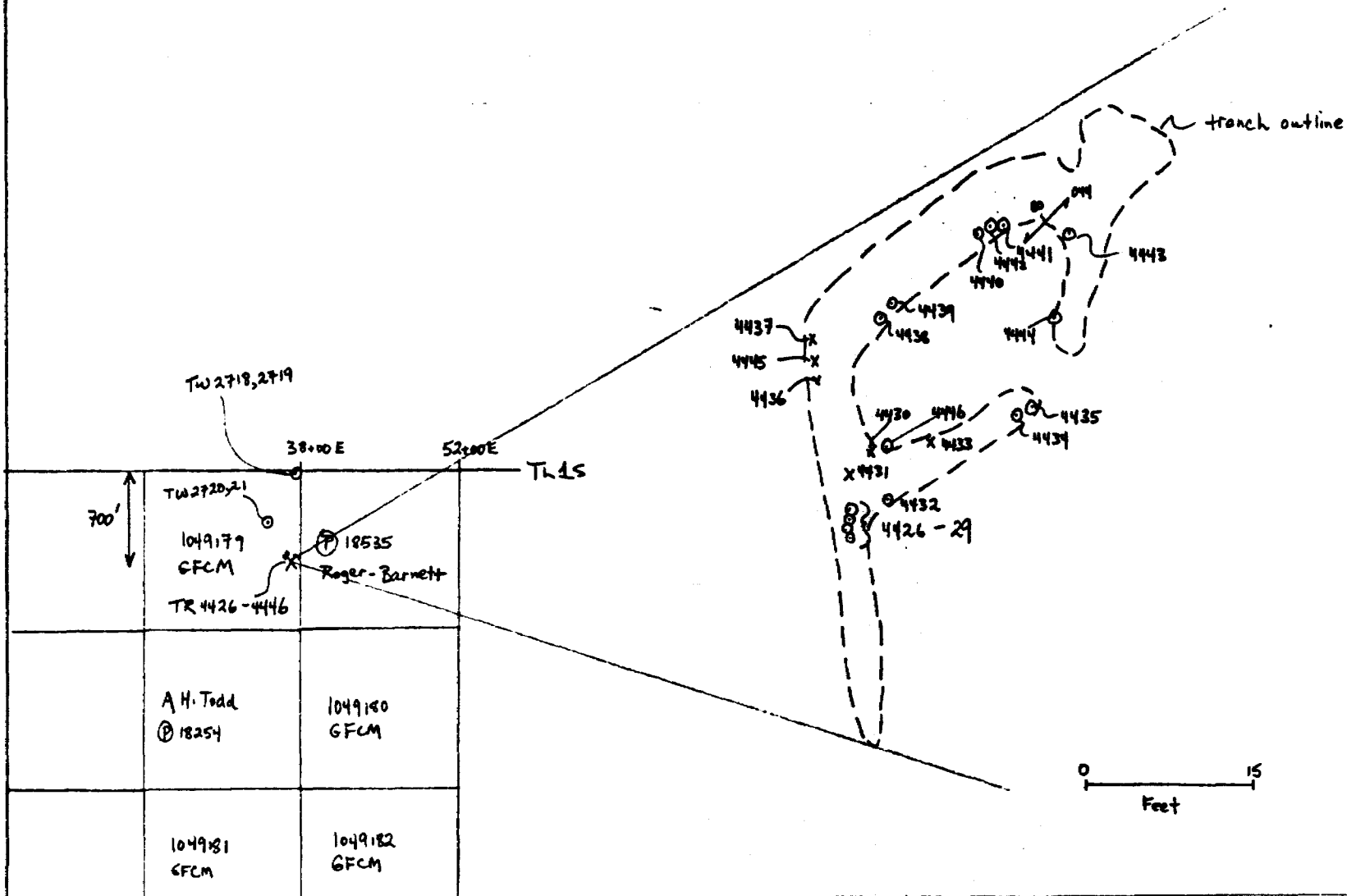
For enquiries on this report, please contact Customer Service Department.
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Claim 1049179
 Catharine Township
 "Main Showing Area"
 Assay Plan



⊙ in place
 x loose muck





T S L LABORATORIES

DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED

2031 RIVERSIDE DRIVE, UNIT #2

TIMMINS, ONTARIO

P4N 7C3

☎ (705) 268-4441 FAX: (705) 268-4420

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2616

SAMPLE(S) OF Rock

INVOICE #: 2537
P.O.: C-PC-89-3

	Au ppb	Cu ppm	Mo ppm
TW2722	20		
TW2723	10		
TW2724	20	760	5
TW2725	30		
TW2726	160		
TW2727	5		
TW2728	5		
TW2729	5		
TW2730	5		
TW2731	5		
TW2732	5		
TW2733	5		

113067

Antoine
[Signature]

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MAY 31 1989

TW2737	65		
TW2738	35		
TW2739	110		
TW2740	25	180	
TW2741	25	120	

1049180

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GOLD FIELDS CANADIAN MINING LIMITED

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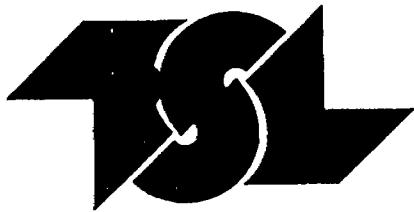
May 25/89

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[Signature]

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DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED

2031 RIVERSIDE DRIVE, UNIT #2

TIMMINS, ONTARIO

P4N 7C3

☎ (705) 268-4441 FAX: (705) 268-4420

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2616

SAMPLE(S) OF rock

INVOICE #: 2537
P.O.: C-PC-89-3

	Au ppb	Cu ppm	Mo ppm
TW2742	15		
TW2743	5		
TW2744	5		
TW2745	10		
TW2746	20		
TW2747	30		
TW2748	5		
TW2749	60		
TW2750	5		
TW2751	50		
TW2752	5		
TW2753	5		
TW2754	<5		
TW2755	5		
TW2756	<5		
TW2757	5		
TW2758	5		
TW2759	200		
TW2760	270		
TW2761	190		

Catherine

WJ

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MAY 31 1989

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GOLD FIELDS CANADIAN MINING LIMITED

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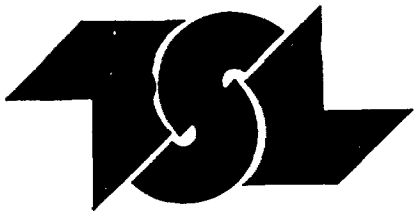
May 25/89

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[Signature]



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SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2616

INVOICE #: 2537
P.O.: C-PC-89-3

SAMPLE(S) OF Rock

	Au ppb	Cu ppm	Mo ppm
1049180 { TW2762	220		
TW2763	10		
TW2764	5		

Catherine
My

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INVOICE TO: Timmins

May 25/89

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Catharine Twp.

N
↑

TW-2722 - TW-2733

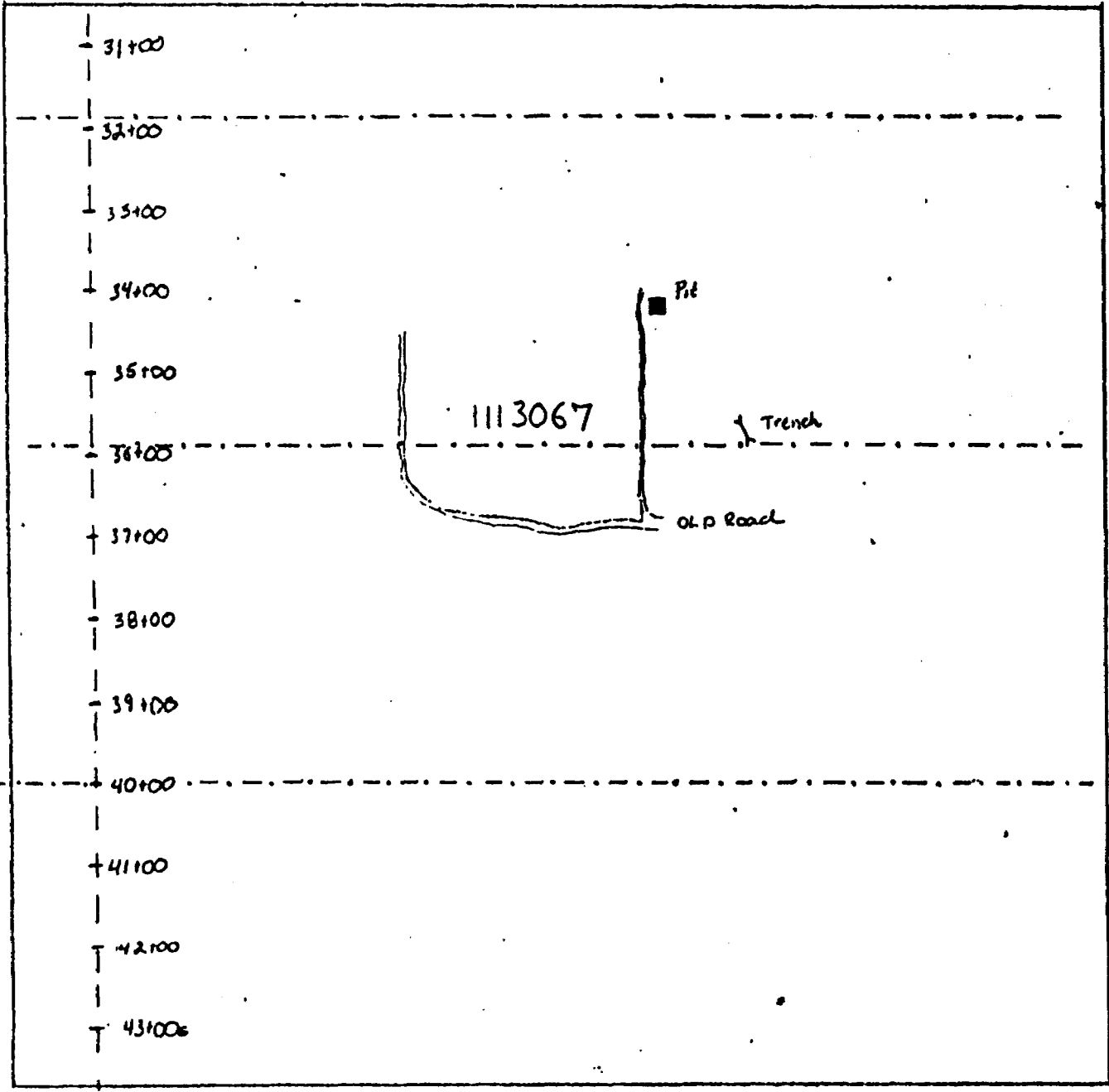
May 11/89

Area of S/2, lot 6, Con. 1
Showing

L12E

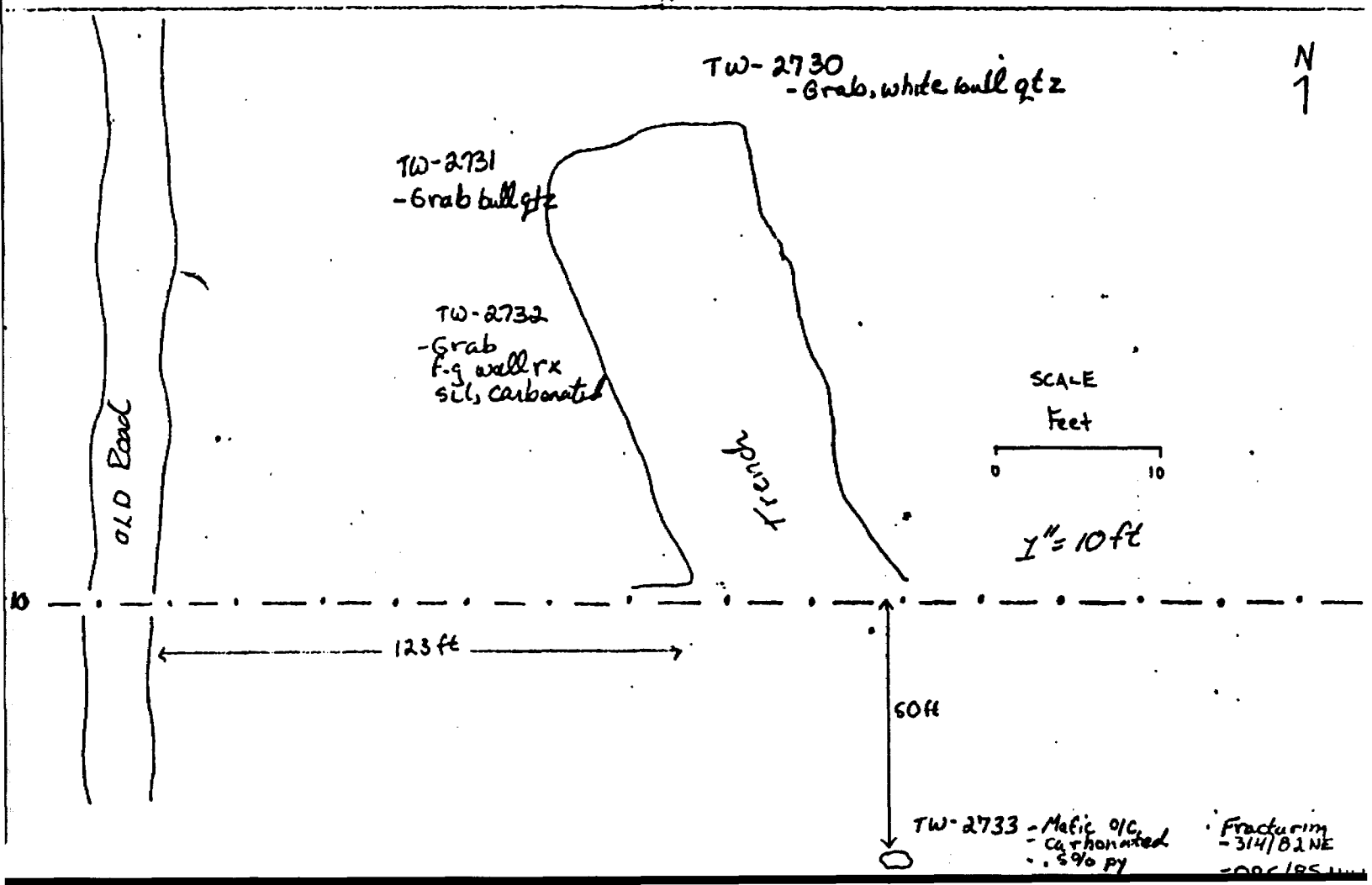
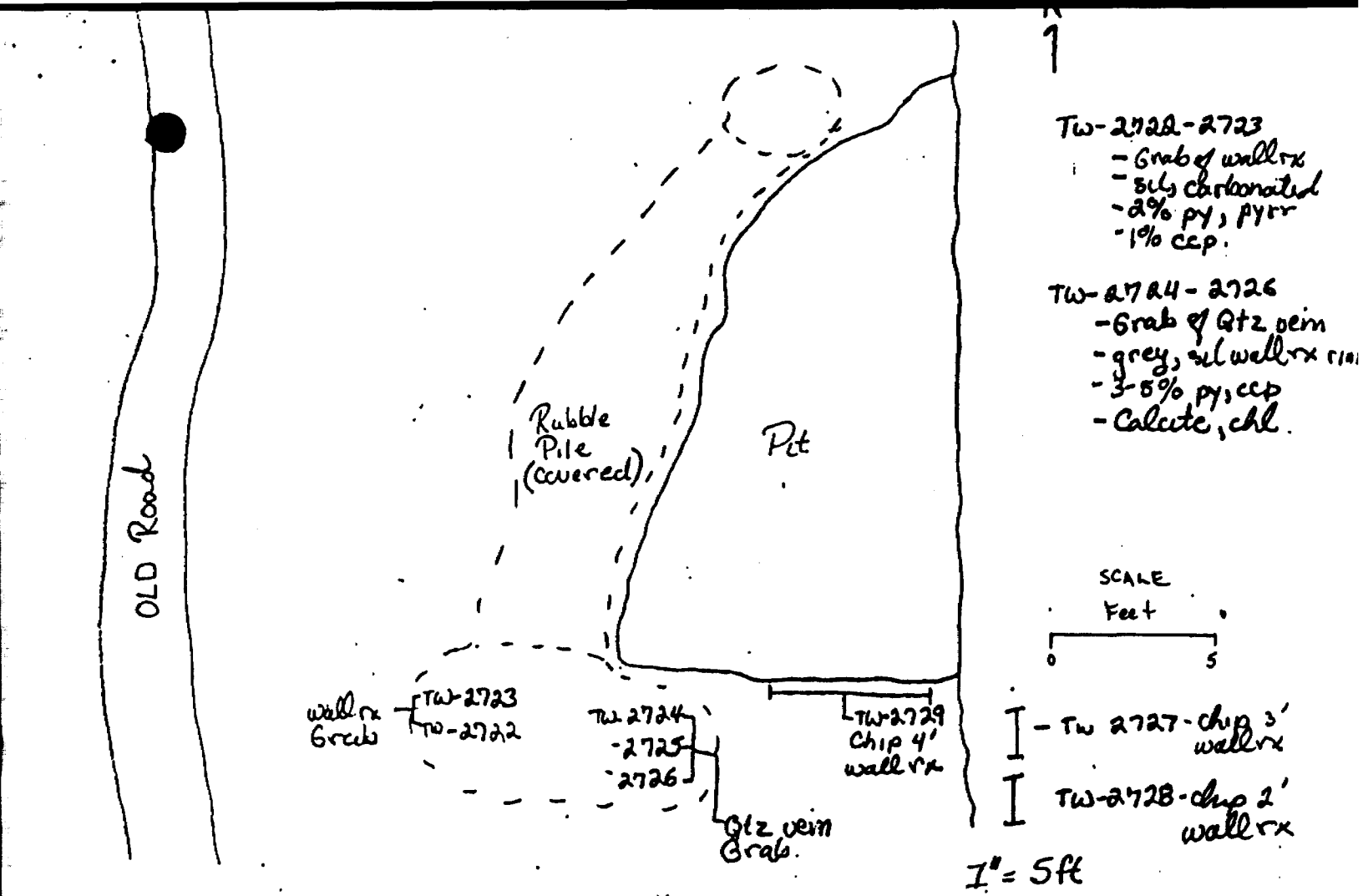
Grid

Grid



43+75S

0 200
1" = 200 ft



Catharine May 18-19/89

TW 2737 - RW 2765

Salamander Zone
(below Roger patents)
- assessment tiles

N
↑

L52E

551005

0/c #2

0

0/c #1

0.3



4-D

0.5



1049180

0.8

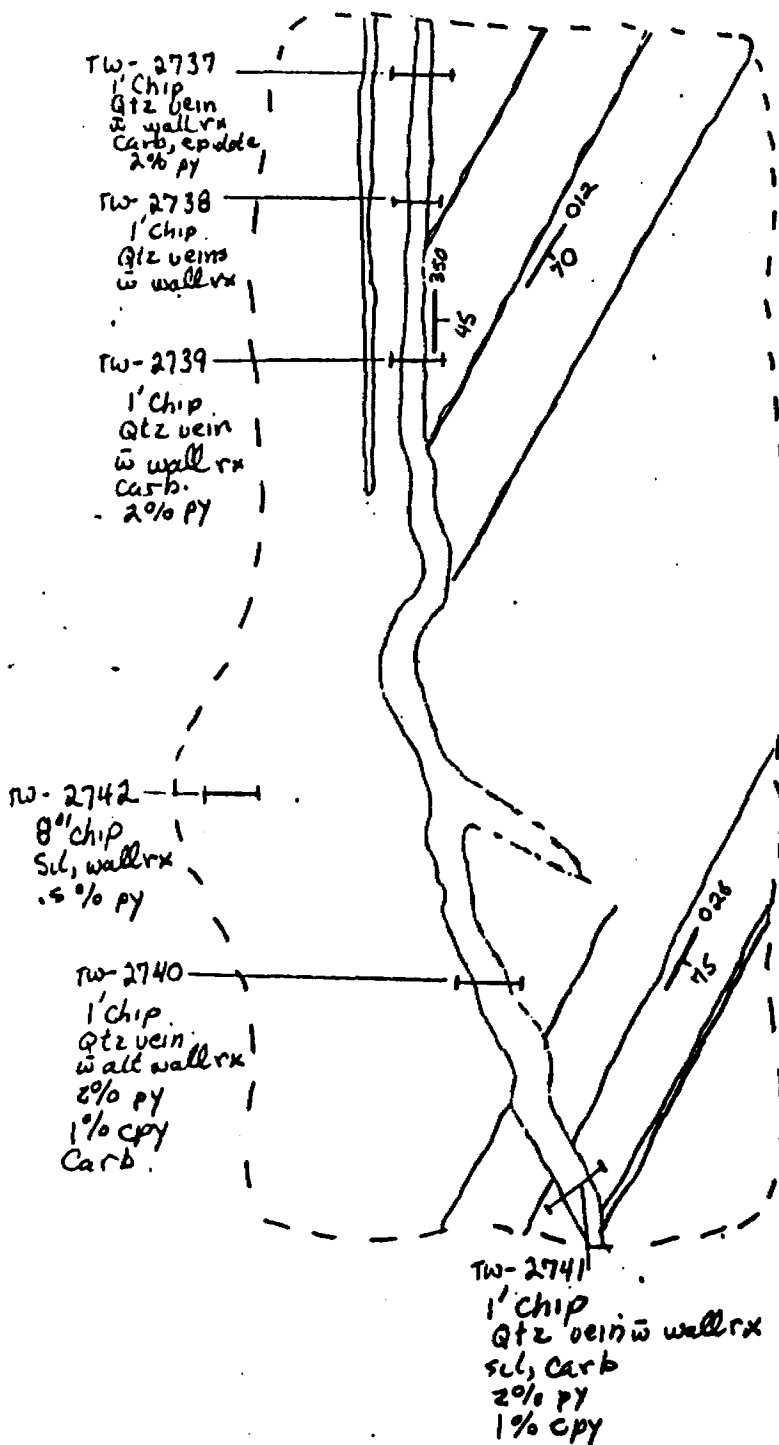
L52E



1" = 200ft

30ft

POST 2
of 1049142

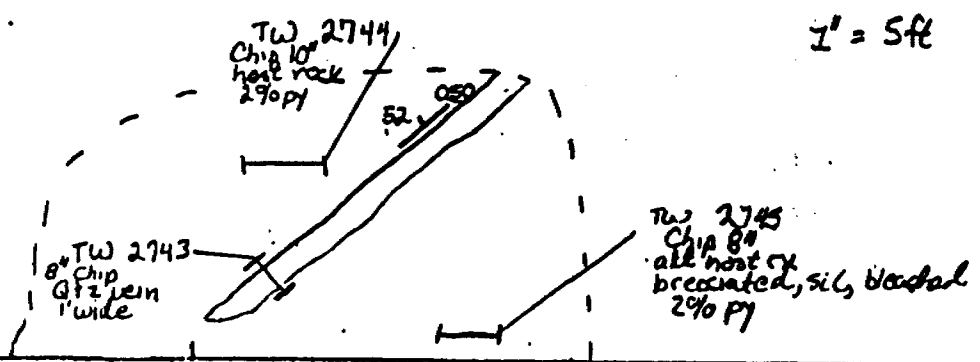
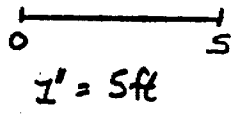


Fracturing
062/50 NE
026/75 SE

O/C #1

0 5
1" = 5ft

N
↑

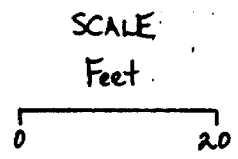


Claim line
425 ft west
of post 1 of 1049180

N
↑

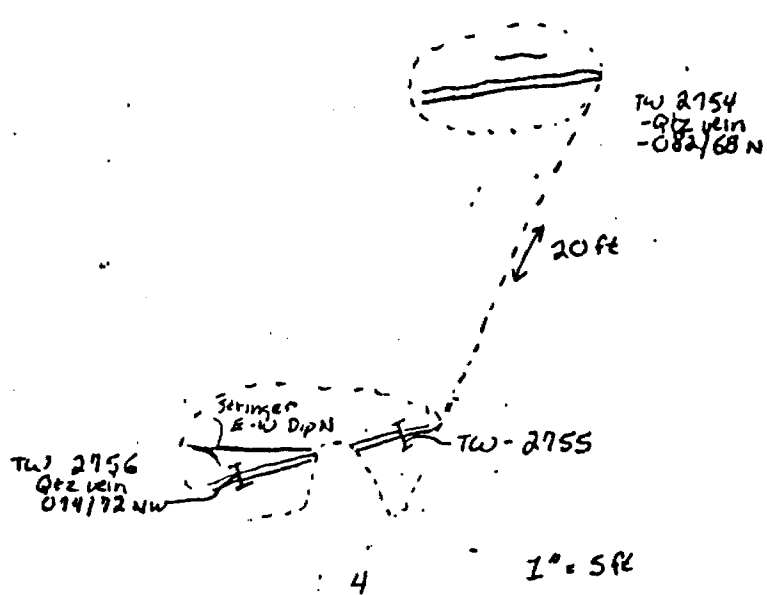


TW 2757
Chip of 4' quartz vein
040/82 SE

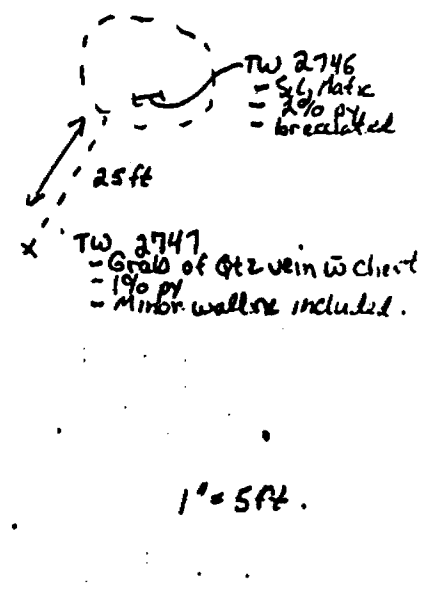


1" = 20ft

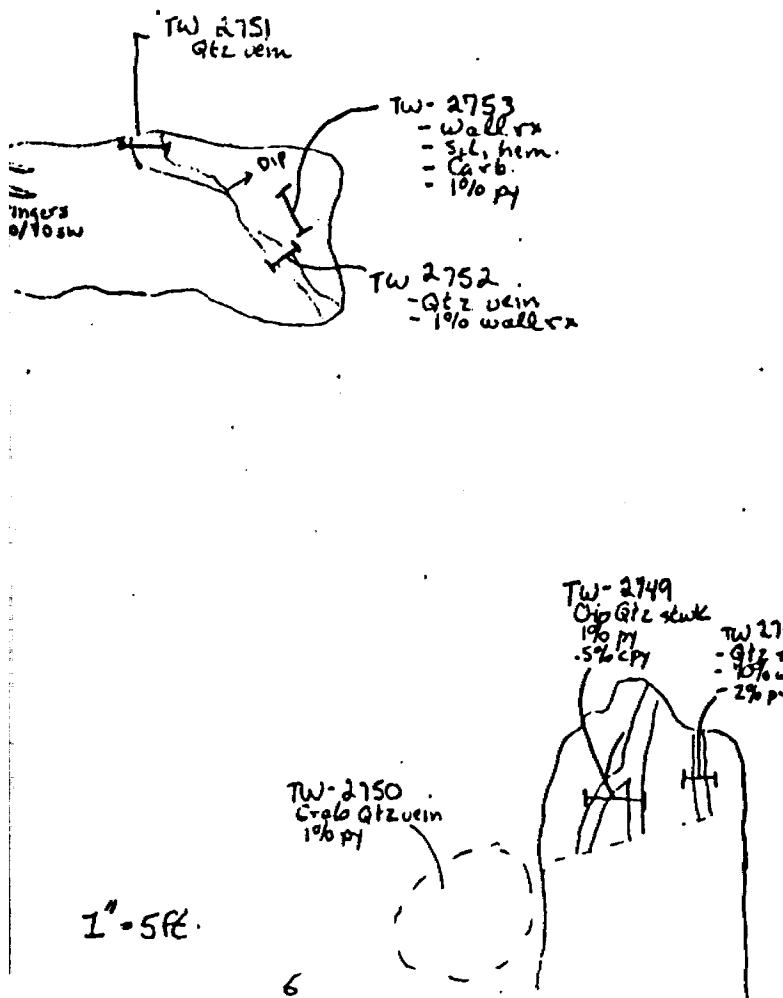
N
↑



N
↑

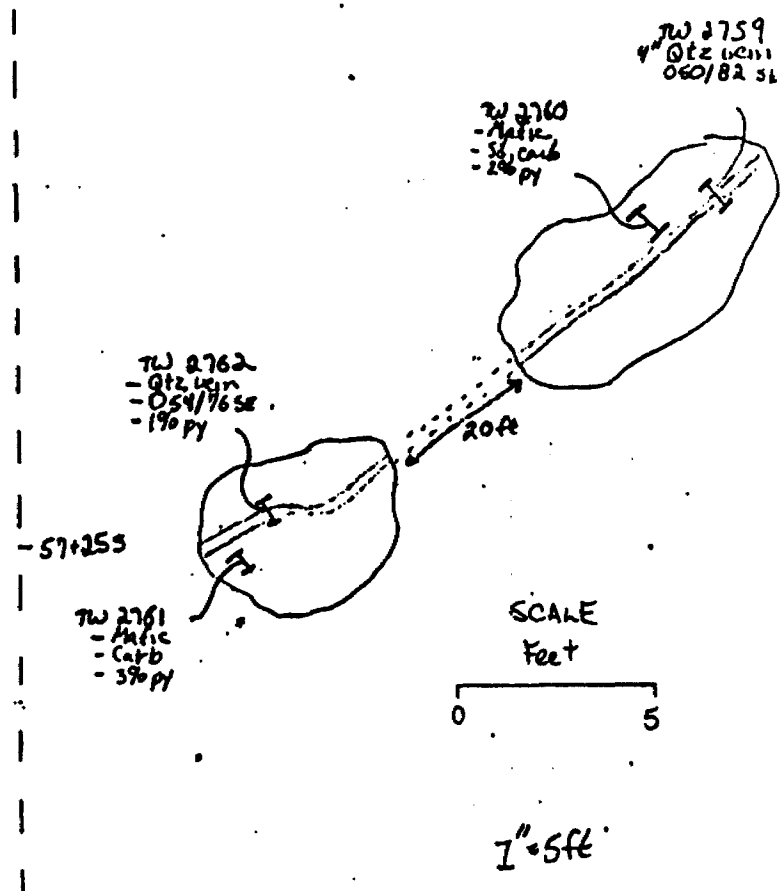


N
↑



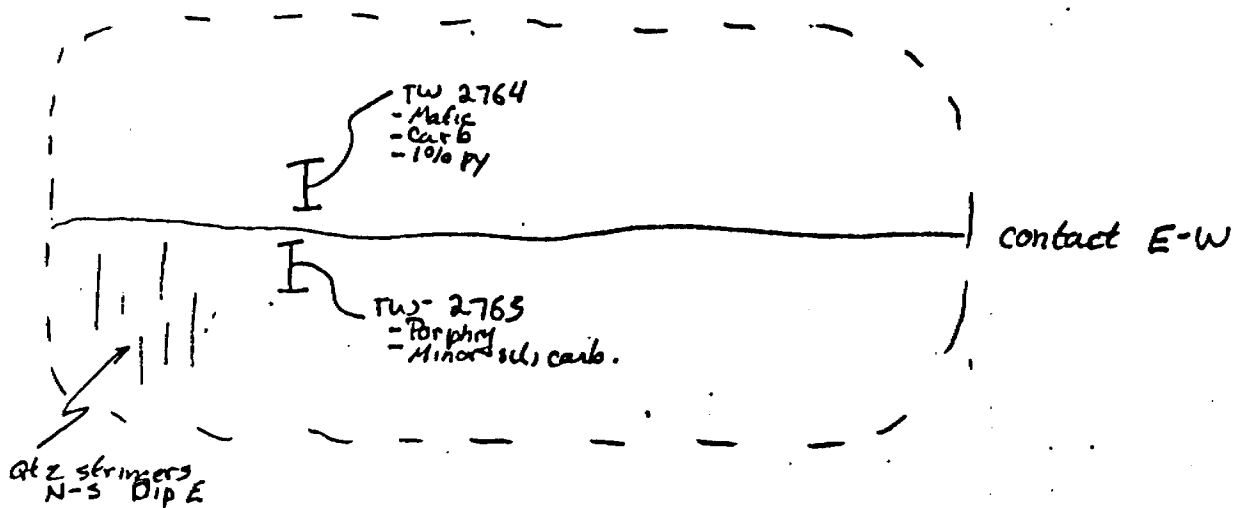
LS2E

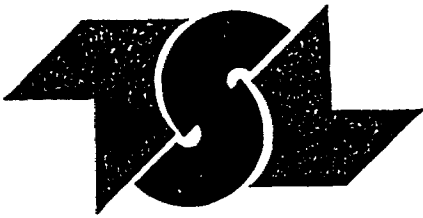
N
↑



7

N
↑





T S L LABORATORIES

DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED

2031 RIVERSIDE DRIVE, UNIT #2

TIMMINS, ONTARIO

P4N 7C3

☎ (705) 268-4441 FAX: (705) 268-4420

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2629

SAMPLE(S) OF rock

INVOICE #: 2541
P.O.: C-PC-89-4

	Au ppb
TW 2767	10
TW 2768	10
TW 2769	10
TW 2770	15
TW 2771	10
TW 2772	10
TW 2773	10
TW 2774	10
TW 2775	15
TW 2776	430
TW 2777	20
TW 2778	60
TW 2779	15
TW 2780	25
TW 2781	65
TW 2782	85
TW 2783	10
TW 2784	80

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LABORATORIES

Catherine Lup
[Signature]

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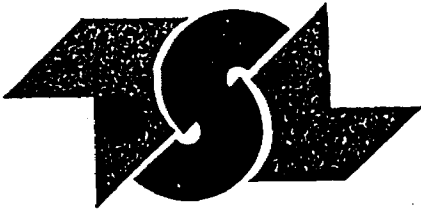
Jun 01/89

SIGNED _____

[Signature]

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467-C Preston Lane
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Timmins, Ontario
P4N 7H9

REPORT No.
W2629

SAMPLE(S) OF rock

INVOICE #: 2541
P.O.: C-PC-89-4

	Au ppb
TW 2785	140
TW 2786	170
TW 2787	10
TW 2788	5
TW 2790	5
TW 2791	10
TW 2792	10
TW 2793	30
TW 2794	15
TW 2795	25
TW 2796	5
TW 2797	20
TW 2798	5
TW 2799	20
TW 2800	5
TW 2801	5
TW 2802	5
TW 2803	5
TW 2804	sample missing

REGISTERED
JUN - 5 1989

Customer Prop
com

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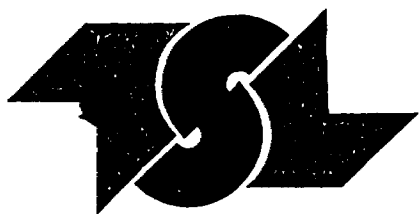
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Jun 01/89

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P4N 7C3

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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2629

SAMPLE(S) OF Rock

INVOICE #: 2541
P.O.: C-PC-89-4

	Au ppb
TW 2805	10
TW 2806	5
TW 2807	5

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JUN - 5 1989

Genevieve Rep.
[Signature]

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Jun 01/89

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Samples, Pulps and Rejects discarded two months from the date of this report.



Cathoune May 23/89.

TW-2765 - TW-2775

N
1

TW-2765
-pillowed mafic
-rust colored
zone

TW-2766
-pillowed mafic

load.

TW-2767-⊙
-intrusive (ultramafic)
-chl, Feiladrox
-contact N-S

TW-2768
-Porphyry
-sil.
-contact w/ 2767

TW-2772
-Qtz lens in ultramafic

TW-2769
-syenite
-contact N-S
-dip W?

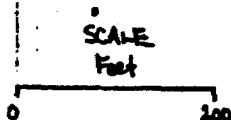
TW-2771
-syenite?
-sil, minor chl

TW-2770
-ultramafic

TW-2773
-Schist
-2% Qtz
-crenulation
-sil, carpi

TW-2774
-same as above
TW-2775
-Qtz veinstones
-1% py
-cut & schistosity

1049183.



1" = 200 ft

Catharine - Ostrom showing May 24/89
TW 2776 - TW 2788

N
1

L48w

859130

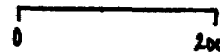
1480N

54.30w

38.00w

BL

SCALE
Feet



1" = 200 FE

3165s

L48w

N
1

- Zone 3ft wide
- consisting of 2 veins (stockwork) 095/62 58
- lens of massive py

TW 2787
- Grab
- sil porphyry?
- 1% py

PK

TW-2784
- Chip of 4" Qtz vein
- massive sulfide lens py 10%

TW 2783
- Chip of 5" Qtz vein
- 2% py

TW-d 785
- Chip 1' of Qtz vein
- 5% mass py
- 10% alt wall rx

TW-2776
- Grab, Qtz vein w 10% py, 1% cpy
- minor chl, sheared wall rx
- minor carb
- malachite

1180N

TW 2777
- Grab sheared, chloritic host rx
- 2% py
- sil

TW 2778
- Chip 4" of sil, chloritic host rx
- 1% py

TW 2779
- Chip of porphyry in contact w diabase 064/vert
- sil, chl.
- 2% py
- tr. arsenic

TW 2780
- Grab
- sheared chl host rx
- 25% Qtz vein
- 2% py

TW-2786
- Chip of 9" Qtz vein 4"
- 10% wall rx
- 5% py
- 1% cpy 092/7

TW-2781-82
- Grabs
- Qtz vein
- 3% py
- 5% wall rx
- W Dip?



1" = 20ft

L48w

N
1

TW-2788
- Grab
- Dark f.g. matrix
- sheared
- 1% py



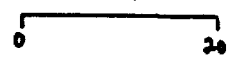
3+65a

TW 2789
- Grab
- Qtz vein (grey color)
- beccubed wall rx
- hem, chl, alt.
- 1% py
- tr arsenic



SCALE

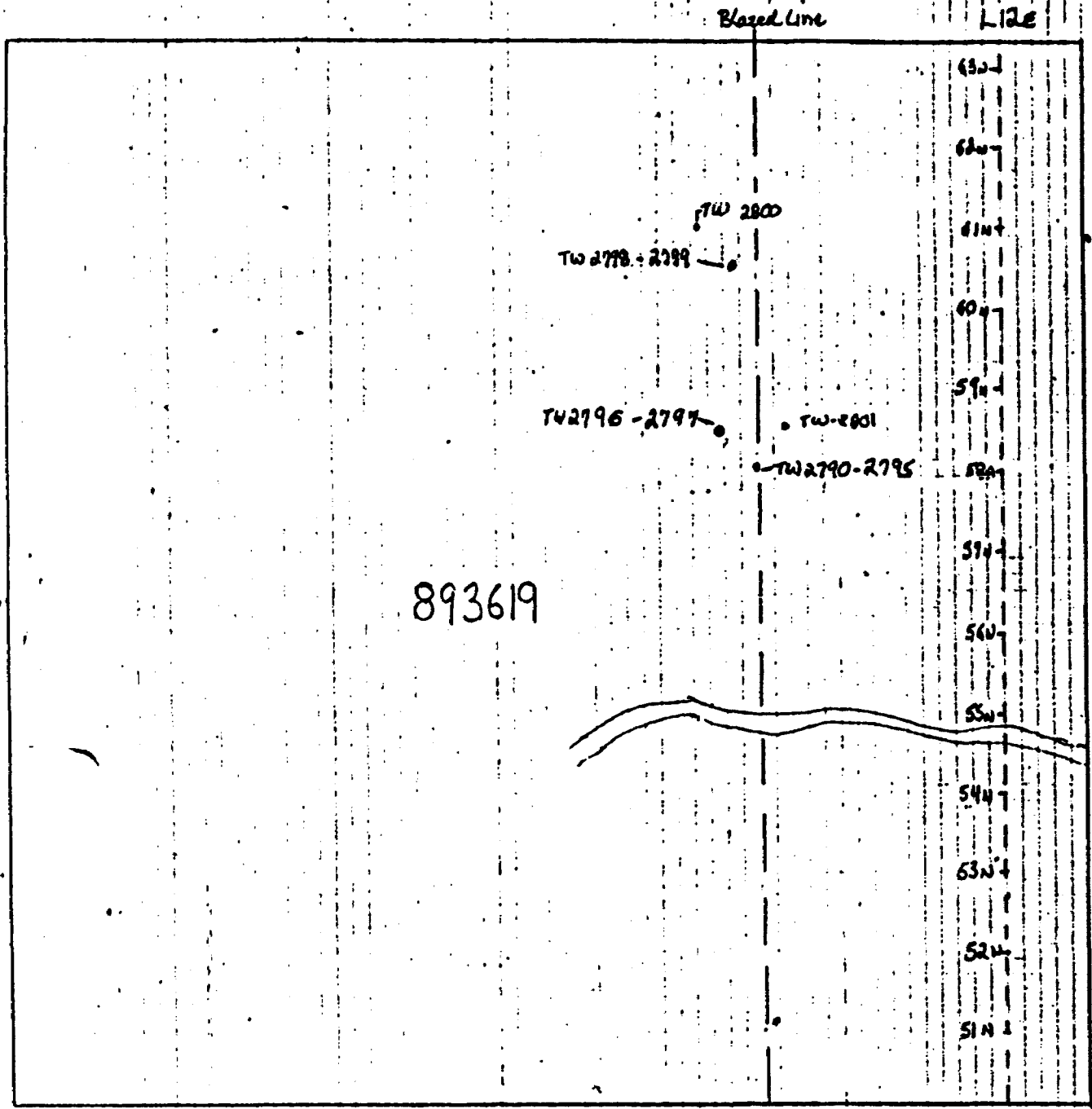
Feet



1" = 20ft

Catharine May 25/89
Ven Arman Area.
TW-2790 - TW-2801

N
↑



SCALE
1" = 200ft
Feet
0 200

Blazed Line

50ft

TW 2796-2797
- Chip - 3" Qtz vein
- 19% py
- 048/75s

TW 2801
- Grab Qtz vein

N
↑

50ft

TW 2791
- Chip Mafic schist
- Calcite stringers || to shear
- 1% arsenopy

TW 2790
- Chip Mafic schist 2'
- Calcite stringers || to shear
- 1% arsenopy

TW 2792
- Chip Mafic schist
- Calcite + Qtz stringers
- 1% arsenopy

82
083

TW 2793
- Chip Mafic schist
- Close to Qtz vein
- sil
- 1% arsenopy

TW 2794
- Chip of Qtz vein (width?)
- 2' from to || schistosity
- 2% arsenopy

TW 2795
- Grab
- Qtz vein
- 10% wall rx

TW-2790 - TW-2795 Trench

SCALE
Feet



1" = 3ft

Line
line

N
7

← 75 ft → 61+00N

TW 2800
 - Chip of qtz stockwork
 - Chl clasts

← 30 ft → 60+30N

TW 2798
 - Chip of 5' qtz vein
 - 1/8 assay py
 - 060/70 se

TW 2799
 - Chip of horn mafic
 - 5/8 py near vein contact

SCALE
 Schematic

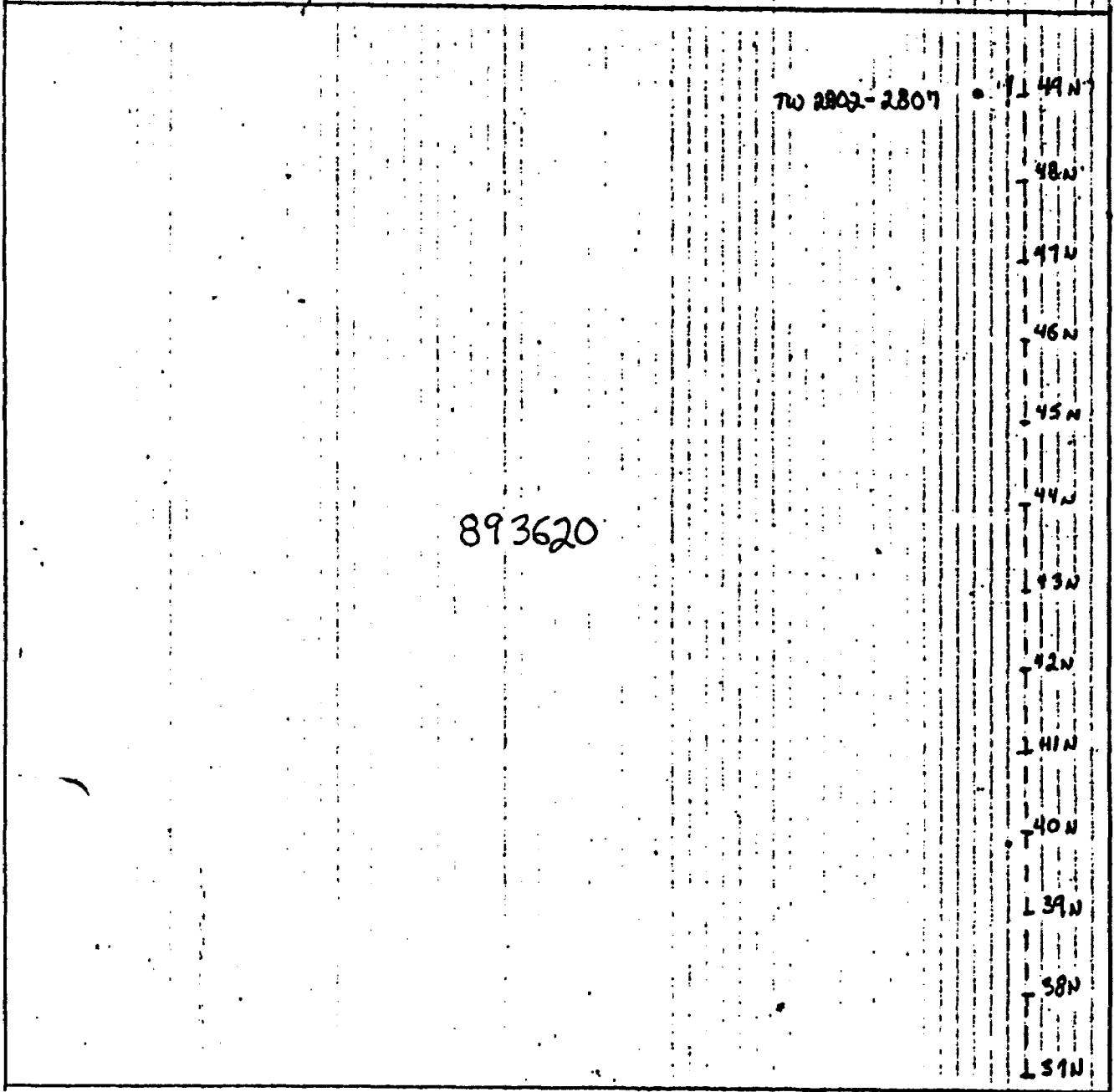
Catharine May 25/89

TW 2802-2807

* TW 2804 - TAG Missing - Void *

12

L12E

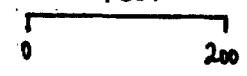


TW 2802-2807

893620

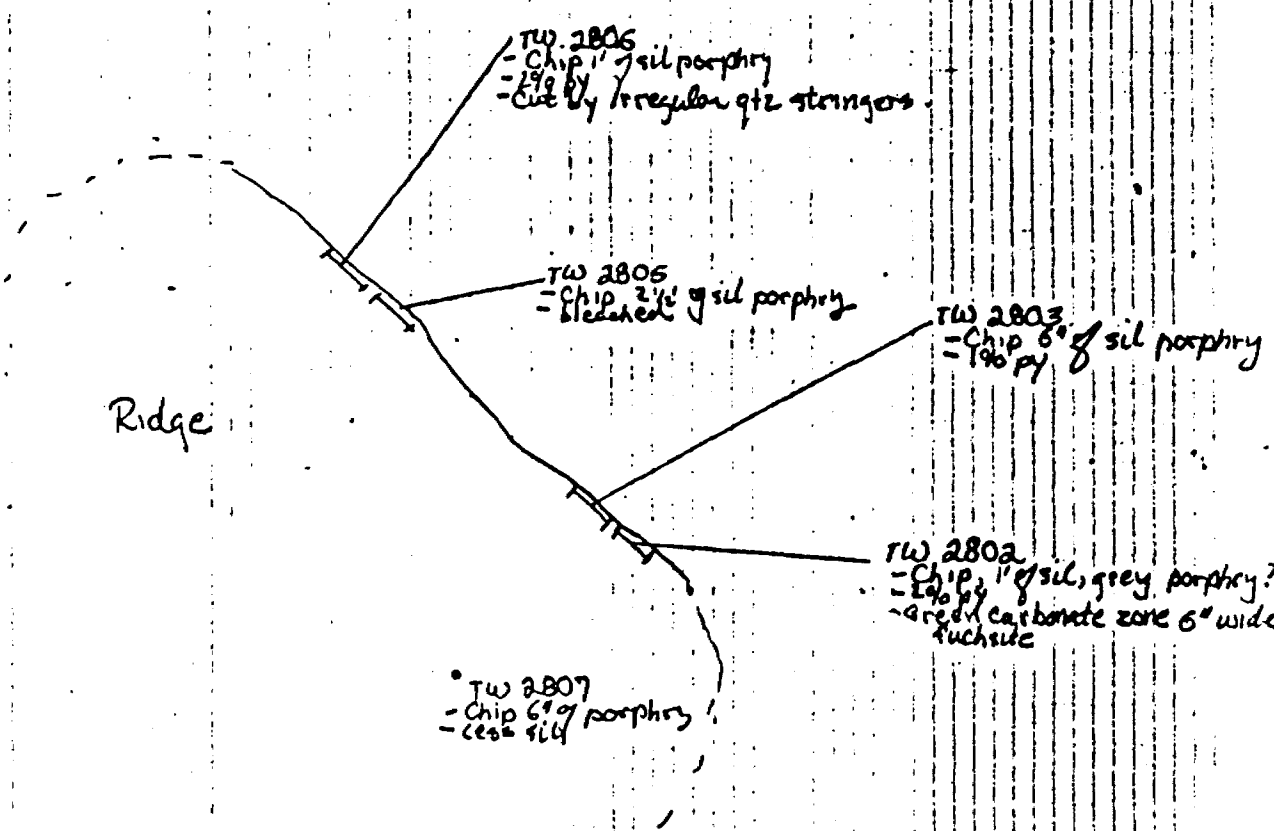
49N
48N
47N
46N
45N
44N
43N
42N
41N
40N
39N
38N
37N
36N
35N
34N
33N
32N
31N

SCALE
FEET



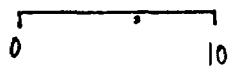
1" = 200ft

N
1

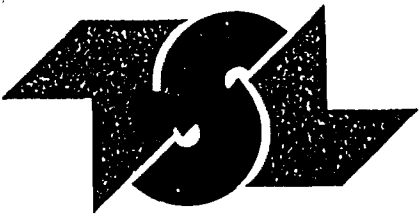


Ridge

SCALE
Feet



1" = 10 ft



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2031 RIVERSIDE DRIVE, UNIT #2

TIMMINS, ONTARIO

P4N 7C3

☎ (705) 268-4441 FAX: (705) 268-4420

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2639

SAMPLE(S) OF rock

INVOICE #: 2553
P.O.: C-PC-89-5

	Au ppb	Au ozpt	Cu ppm
TW 2808	36		
TW 2809	820		
TW 2810	>1000	0.183	
TW 2811	110		
TW 2812	480		
TW 2813	380		
TW 2814	10		
TW 2815	>1000	0.175	
TW 2816	30		
TW 2817	35		
TW 2818	15		
TW 2819	50		
TW 2820	>1000	0.062	

Catharic Property

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GOLD FIELDS CANADIAN MINING LIMITED

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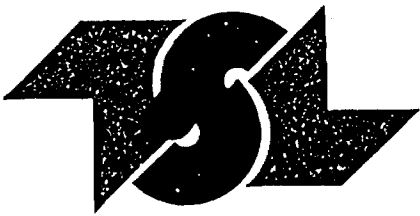
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INVOICE TO: Timmins

Jun 07/89

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[Signature]





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TIMMINS, ONTARIO

P4N 7C3

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467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.

W2639

SAMPLE(S) OF rock

INVOICE #: 2553

P.O.: C-PC-89-5

Au	Au	Cu
ppb	ozpt	ppm

TW 2836	280
TW 2837	15
TW 2838	5
TW 2839	10
TW 2840	10
TW 2841	20
TW 2842	30
TW 2843	15
TW 2844	35
TW 2845	120
TW 2846	35
TW 2847	790

Caroline Property

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GOLD FIELDS CANADIAN MINING LIMITED

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JUN 14 1989
RESULTS

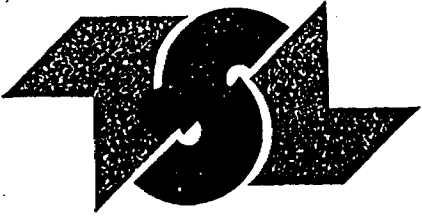
COPIES TO: Timmins, Toronto
INVOICE TO: Timmins

Jun 07/89

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2031 RIVERSIDE DRIVE, UNIT #2

TIMMINS, ONTARIO

P4N 7C3

☎ (705) 268-4441 FAX: (705) 268-4420

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2639

SAMPLE(S) OF
rock

INVOICE #: 2553
P.O.: C-PC-89-5

	Au ppb	Au ozpt	Cu ppm
TW 2848	25		
TW 2849	20		
TW 2850	420		
TW 2851	95		76

Catherine Property

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Jun 07/89

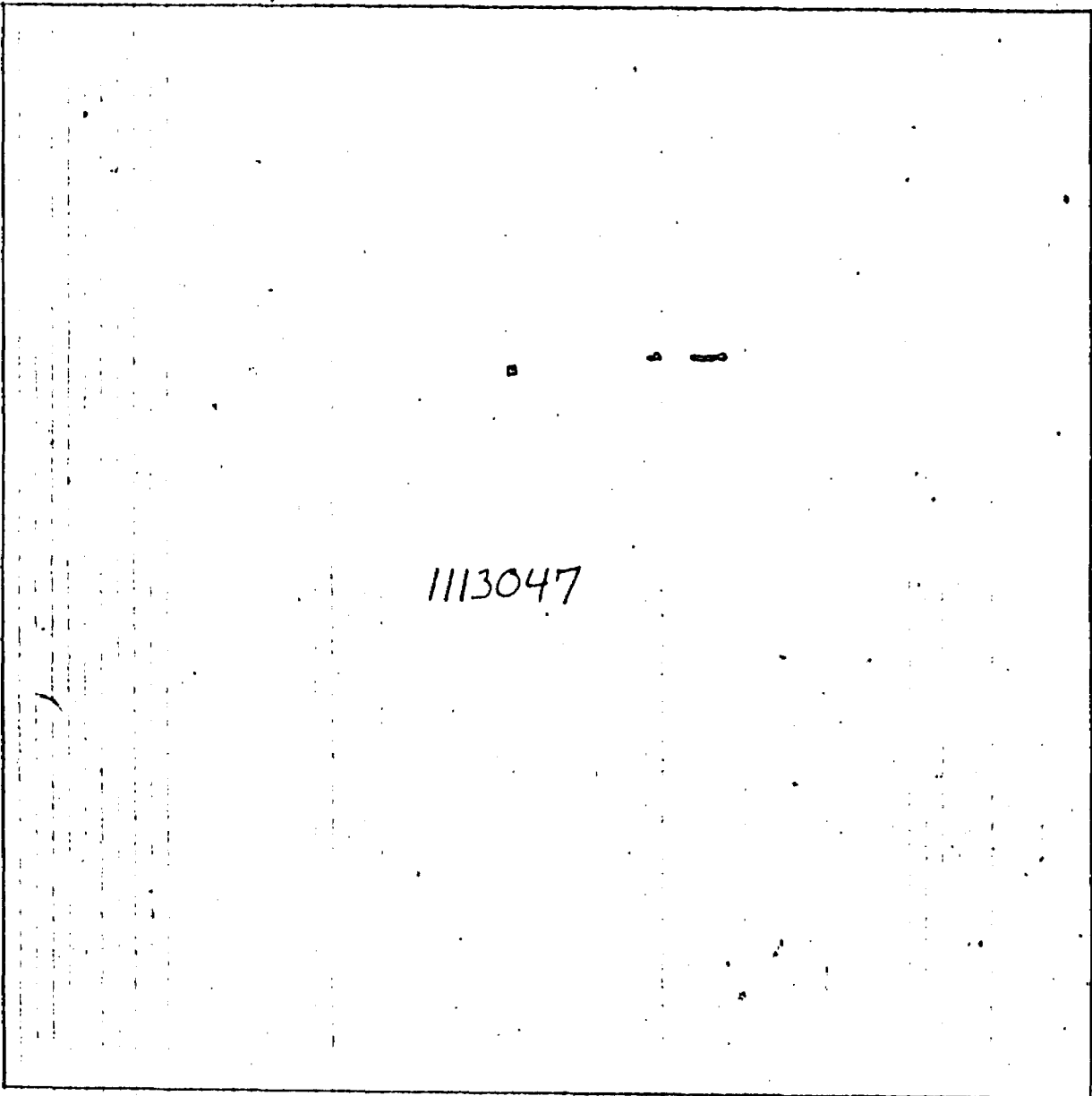
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[Handwritten signature]

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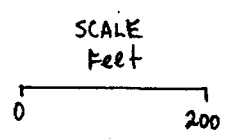


Catharine
Kalyniuk showing May 27/89
TW 2808 - TW 2820



L2851
29+75w1
140ft

1113047



1" = 200ft

N
↑

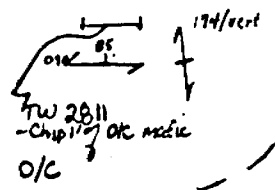
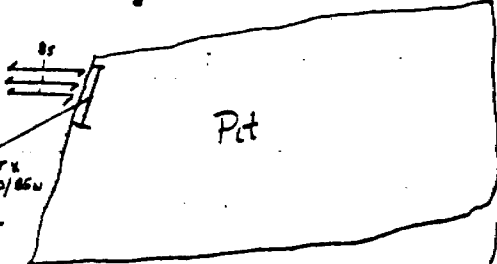
- TW 2815
- Grains of quartz vein
- chl clots
- hem. alt.
- Carbonized
- 89% py

- TW 2809 TW 2810
- Grab - Grab
- Sheared mafic - Sheared mafic
- 89% py, 1% cpy - 89% qtz vein
- 10% qtz vein - hem. alt.
- Carbonized - 10% py, 7% cpy
- Carbonized

- TW 2814
- Chip of quartz vein
- 0.5/175M
- 1% py
- 50% wallrock

35 ft

- TW 2808
- Chip of mafic rx
- Sheared 0.9/85W
- 3% py
- Carbonized



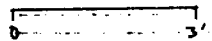
- TW 2812
- Chip along
2" sil. fibrous
chl zone
- Sheared
- Carbonized
- 0.04/90

o/c

- TW 2813
- Chip of quartz lens
- 7% cpy

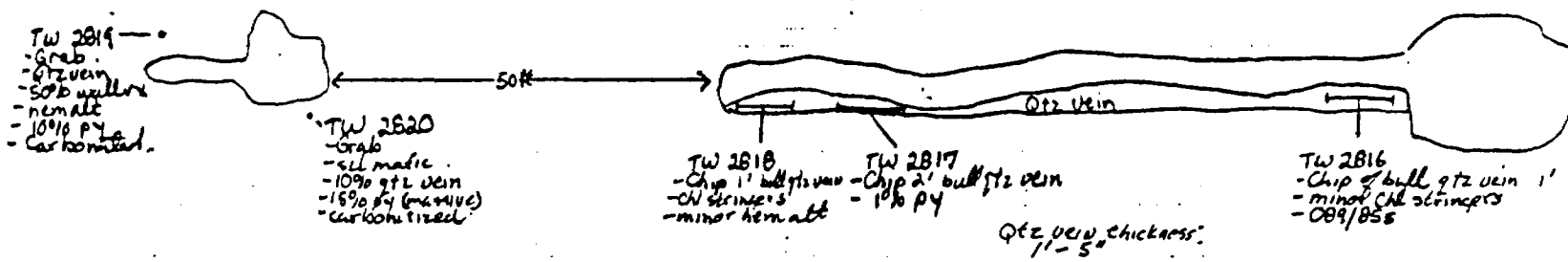
3/4" 65N
Drill
hole

SCALE
Feet

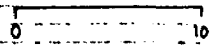


1" = 3ft

N
↑



SCALE
Feet



1" = 10ft

Catharine
 TW 2836 - TW 2850
 May 29/89

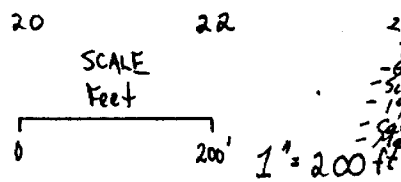
N
 ↑

893799

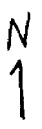
TW 2849
 TW 2848
 TW 2846-2847
 TW 2838
 TW 2845
 TW 2836
 - Grab front rx
 - brecciated
 - sil bleached
 - thin alt
 - Cap horizontalize
 - 5% py
 TW 2837
 - Grab, smokey qtz
 - 2% py

TW 2850
 - Chip qtz stalwort
 - 1% py
 - 10% actual rx

BL 0.00
 24
 TW 2851
 - Grab
 - sil alt rubble
 - 1% py
 - Carbonated
 - Melachro?



10E 14E 16E 18E 20 22



- TW 2849
- Chip 1" qtz vein
- 50% wall rx - sil, brecciated
- hem alt, calcite along fractures
- 1% py
- 2 ft wide

- TW 2848
- Chip along skk of qtz vein
- 30% py, 1% arsenopy
- hem alt, minor chl
- 350' ~ 50W
- 2 ft wide

- TW 2846
- Chip 6" alt horn rx
- brecciated, carb.
- chl stringers
- 10% py

- TW 2847
- Chip 1" qtz vein
- 1% py, 1% arsenopy
- 130' / 52 SW

- TW 2838
- Chip 5" porphy
- hem alt
- 10% mag.
- 5% py, 1% arsenopy

- TW 2840
- Chip 5" porphy
- sil, carb.
- 2% py, 1% arsenopy
- 10% qtz vein

- TW 2841
- Chip 5" qtz vein
- brecciated
- 5% py
- 30% wall rx

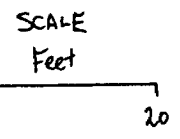
- TW 2845
- Chip 5" qtz vein
- 2% py
- stock work
- grey color

- TW 2839
- Chip 4" qtz vein
- Green carb. (Fuchsite)
- 10% py
- 10% wall rx
- stock work?
- 044' / 55 SW

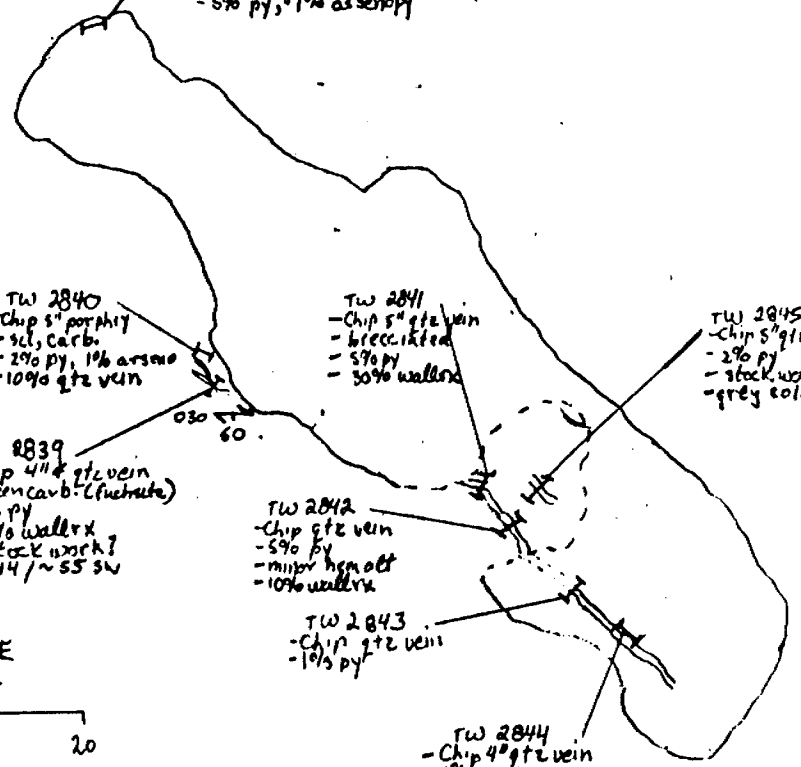
- TW 2842
- Chip qtz vein
- 5% py
- minor hem alt
- 10% wall rx

- TW 2843
- Chip qtz vein
- 10% py

- TW 2844
- Chip 4" qtz vein
- 10% py
- chl
- stock work?
- grey color



1" = 20 ft





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2031 RIVERSIDE DRIVE, UNIT #2

TIMMINS, ONTARIO

P4N 7C3

☎ (705) 268-4441 FAX: (705) 268-4420

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O. Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2644

SAMPLE(S) OF

rock & core

INVOICE #: 2551
P.O.: C-BD-89-9

Au ppb Au ozpt

A 1004	200
A 1005	70
A 1006	100
A 1007	15
A 1008	400
A 1009	20
A 1010	75
A 1011	45
A 1012	75
A 1013	340
A 1014	30
A 1015	80
A 1016	20
A 1017	480

L18E, 7100 N C/m. 893799

Butterfield

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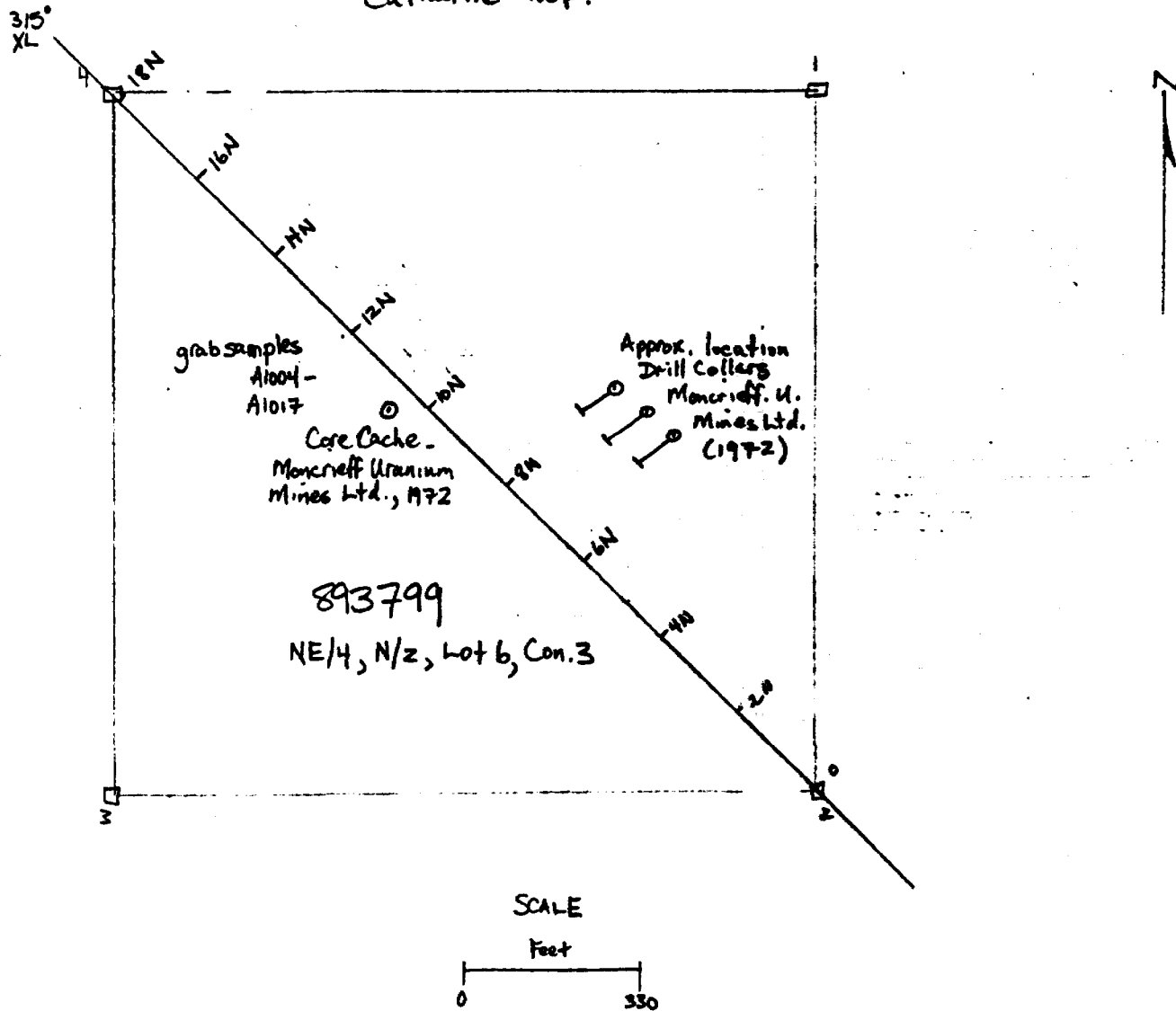
06/89

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Sample Shipment C-3D-89-9
Sample Nos. A1004 - A1017
Catharine Twp.





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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2847

SAMPLE(S) OF rock

INVOICE #: 2752
P.O.: C-PC-89-7

	Au ppb	Au ozpt
A1283	390	
TW2877	>1000	0.096
TW2878	700	
TW2879	110	
TW2880	55	
TW2881	130	
TW2882	150	
TW2883	30	

*Patricia
Daley
843214*

[Signature]

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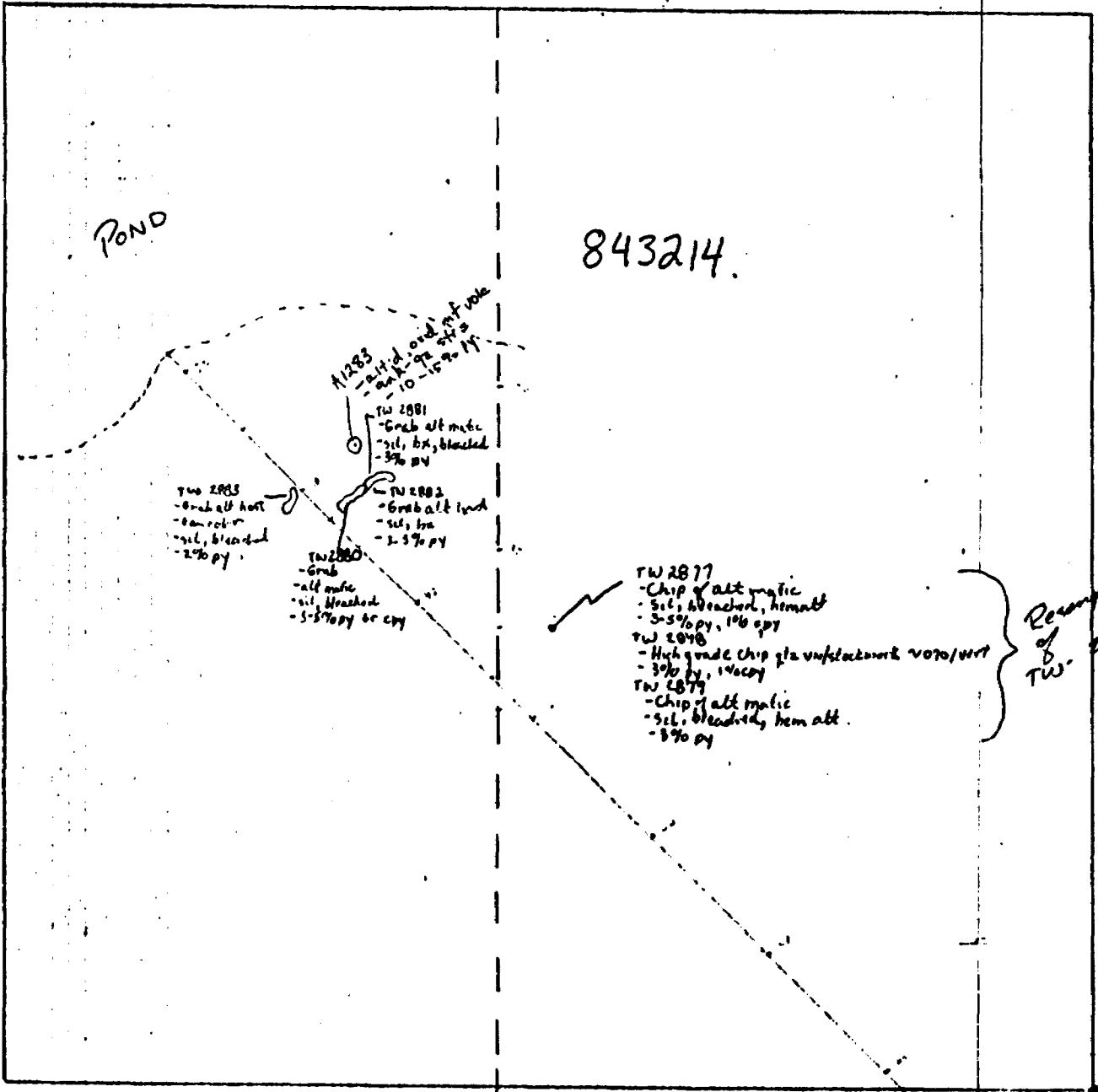
Catharine Daley Ext.

July 11/89

TW 2877 - 2883

A 1283

N
↑





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467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2892

SAMPLE(S) OF Rock

INVOICE #: 2808
P.O.: C-BD-89-14

	Au ppb	Au ozpt
A1284	180	
A1285	460	
A1286	650	
A1287	15	
A1288	570	
A1289	95	
A1290	260	
A1291	330	
A1292	320	
A1293	>1000	0.062
A1294	>1000	0.031
A1295	370	
A1296	440	
A1297	80	
A1298	400	
A1299	>1000	0.044
A1300	60	
A1301	680	
A1302	510	
A1303	190	

Catherine Hoyt

*Daley
McConnell*

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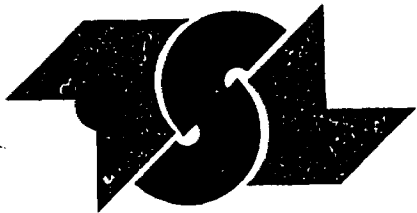
Aug 04/89

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Daley

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467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2892

SAMPLE(S) OF rock

INVOICE #: 2808
P.O.: C-BD-89-14

	Au ppb	Au ozpt
A1304	95	
A1305	690	
A1306	80	
A1307	860	
A1308	220	
A1309	80	
A1310	>1000	0.044
A1311	190	
A1312	190	
A1313	80	
A1314	420	
A1315	240	
A1316	350	
A1317	130	
A1318	160	
A1319	60	
A1320	80	
A1321	20	
A1322	35	
A1323	60	

*Catharine Project
Daley Assurance*

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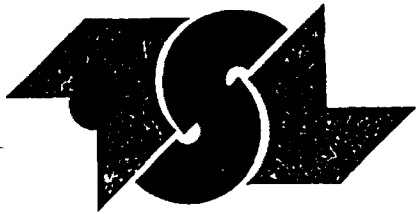
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467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2892

SAMPLE(S) OF rock

INVOICE #: 2808

P.O.: C-BD-89-14

	Au ppb	Au ozpt
A1324	35	
A1325	30	
A1326	45	
A1327	230	
A1328	300	
A1329	230	
A1330	240	
A1331	390	
A1332	230	
A1333	410	
A1334	420	
A1335	480	
A1336	220	
A1337	120	
A1338	50	
A1339	50	
A1340	35	
A1341	250	
A1342	770	
A1343	50	

*Catharine Project
Daley Occurrence*

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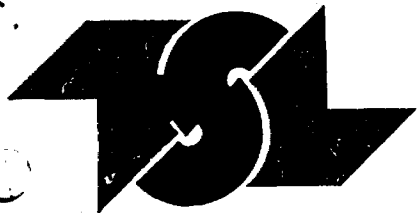
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P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2892

SAMPLE(S) OF rock

INVOICE #: 2808
P.O.: C-BD-89-14

	Au ppb	Au ozpt
A1344	910	
A1345	460	
A1346	65	
A1347	>1000	0.095
A1348	>1000	0.034
A1349	800	
A1350	>1000	0.055
A1351	>1000	0.035
A1352	>1000	0.063
A1353	470	
A1354	140	
A1355	300	
A1356	50	
A1357	420	
A1358	850	
A1359	480	
A1360	380	
A1361	780	0.020
A1362	840	
A1363	200	

*Lathamine Project
Daily Occurrence*

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Timmins, Ontario
P4N 7H9

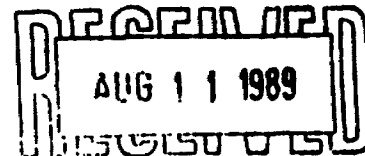
REPORT No.
W2892

SAMPLE(S) OF rock

INVOICE #: 2808
P.O.: C-BD-89-14

	Au ppb	Au ozpt
Al364	140	
Al365	70	
Al366	65	
Al367	45	
Al368	150	
Al369	450	
Al370	35	
Al371	30	
Al372	50	
Al373	410	
Al374	>1000	0.046
Al375	>1000	0.096
Al376	790	
Al377	>1000	0.111
Al378	>1000	0.053
Al379	380	
Al380	270	
Al381	>1000	0.071
Al382	>1000	0.029
Al383	340	

*Cathlamet Project
Daily Occurrence*



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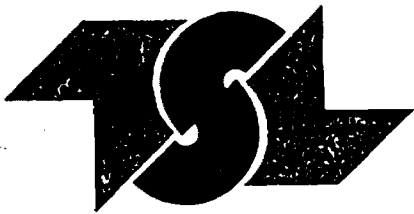
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Timmins, Ontario
P4N 7H9

REPORT No.
W2892

SAMPLE(S) OF _{rock}

INVOICE #: 2808
P.O.: C-BD-89-14

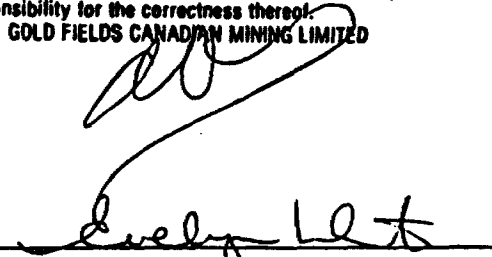
	Au ppb	Au oz pt
A1384	60	
A1385	35	
A1386	60	
A1387	40	
A1388	15	
A1389	25	
A1390	210	
A1391	45	
A1392	30	
A1393	140	
A1394	>1000	0.037
A1395	210	
A1396	200	
A1397	550	
A1398	70	
A1399	120	
A1400	110	
TW2884	300	
TW2885	320	
TW2886	>1000	0.033

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SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2892

SAMPLE(S) OF rock

INVOICE #: 2808
P.O.: C-BD-89-14

	Au ppb	Au ozpt
TW2887	35	
TW2888	250	
TW2889	260	
TW2890	250	
TW2891	50	
TW2892	190	
TW2893	95	
TW2894	210	
TW2895	65	

*Exchange Project
Sales occurrence*

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467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2928

SAMPLE(S) OF rock

INVOICE #: 2848
P.O.: C-BD-89-15

Catharine Project

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	Au ppb	Au ozpt
TW2896	260	
TW2897	70	
TW2898	90	
TW2899	90	
TW2900	620	
TW2901	>1000	0.035
TW2902	130	
TW2903	80	
TW2904	25	
TW2905	240	
TW2906	120	
TW2907	110	
TW2908	15	
TW2909	90	
TW2910	20	
TW2911	30	
TW2912	110	
TW2913	120	
TW2914	80	
TW2915	370	

*main Daley occurrence
(stripped area)*

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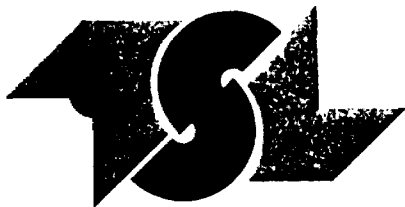
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467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2928

SAMPLE(S) OF rock

INVOICE #: 2848
P.O.: C-BD-89-15

Catherine Project

	Au ppb	Au oz pt
TW2916	110	
TW2917	95	
TW2918	75	
TW2919	60	
TW2920	100	
TW2921	20	
TW2922	25	
TW2923	220	
TW2924	35	
TW2925	30	
TW2926	15	
TW2927	150	
TW2928	90	
TW2929	15	
TW2930	40	
TW2931	15	
TW2932	10	
TW2933	820	
TW2934	410	
TW2935	450	

*Main Daley Occurrence
(stripped area)*

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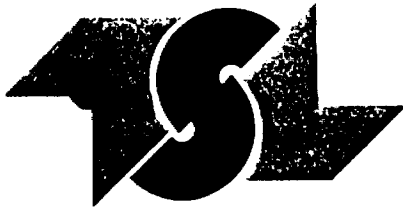
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DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED

2031 RIVERSIDE DRIVE, UNIT #2
TIMMINS, ONTARIO
P4N 7C3

☎ (705) 268-4441 FAX: (705) 268-4420

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2928

SAMPLE(S) OF rock

INVOICE #: 2848
P.O.: C-BD-89-15

Catharine Project

	Au ppb	Au ozpt
TW2936	290	
TW2937	410	
TW2938	130	
TW2939	20	
TW2940	55	
TW2941	210	
TW2942	10	
TW2943	300	
TW2944	620	
TW2945	170	
TW2946	15	
TW2947	15	
TW2948	290	
TW2949	50	
TW2950	190	
TW2951	260	
TW2952	>1000	0.041
TW2953	130	
TW2954	270	
TW2955	420	

*Main Dalry occurrence
(stripped area)*

[Signature]

While we believe this information to have been obtained in accordance with standard industry practices, we make no representation with respect to, nor do we assume any responsibility for the correctness thereof.
GOLD FIELDS CANADIAN MINING LIMITED

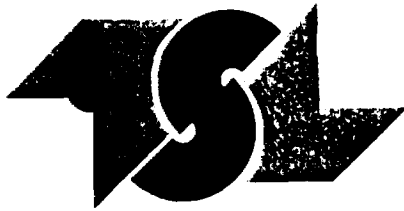
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2031 RIVERSIDE DRIVE, UNIT #2

TIMMINS, ONTARIO

P4N 7C3

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467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2928

SAMPLE(S) OF _{Rock}

INVOICE #: 2848
P.O.: C-BD-89-15

Catharine Project

	Au ppb	Au oz pt
TW2956	30	
TW2957	15	
TW2958	190	
TW2959	110	
TW2960	210	
TW2961	15	
TW2962	15	
TW2963	30	
TW2964	55	
TW2965	270	
TW2966	20	
TW2967	20	
TW2968	15	
TW2969	100	
TW2970	25	
TW2971	15	
TW2972	15	
TW2973	15	
TW2974	10	
TW2975	25	

*Main Daley occurrence
(stripped area)*

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GOLD FIELDS CANADIAN MINING LIMITED

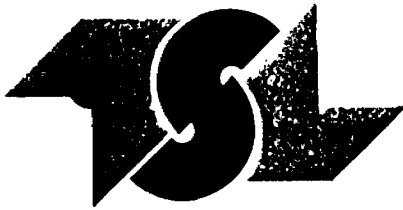
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467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2928

INVOICE #: 2848
P.O.: C-BD-89-15

SAMPLE(S) OF rock

Catharine Project

	Au ppb	Au oz pt
TW2976	10	
TW2977	15	
TW2978	75	
TW2979	110	
TW2980	90	
TW2981	30	
TW2982	10	
TW2983	10	
TW2984	15	
TW2985	15	
TW2986	15	
TW2987	35	
TW2988	440	
TW2989	55	
TW2990	20	
TW2991	40	
TW2992	250	
TW2993	120	
TW2994	250	
TW2995	320	

*Main Daley occurrence
(stripped area)*

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TIMMINS, ONTARIO

P4N 7C3

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SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2929

INVOICE #: 2839

P.O.: C-BD-89-15

SAMPLE(S) OF rock

RECEIVED
AUG 24 1989
REGULATORY

	Au ppb	Au oz pt
Al401	>1000	0.035
Al402	600	
Al403	220	
Al404	270	
Al405	220	
Al406	110	
Al407	75	
Al408	200	
Al409	50	
Al410	45	
Al411	100	
Al412	35	
Al413	60	
Al414	35	
Al415	20	
Al416	40	
Al417	55	
Al418	70	
Al419	55	
Al420	55	

Cathrine Project

*Main Daley occurrence
(stripped area)*

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GOLD FIELDS CANADIAN MINING LIMITED

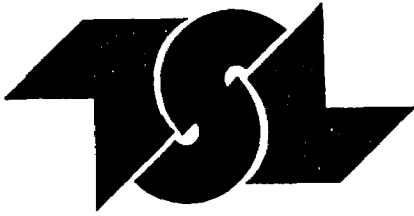
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SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O. Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2929

SAMPLE(S) OF rock

INVOICE #: 2839

P.O.: C-BD-89-15

Catharine Project

	Au ppb	Au oz pt
Al421	45	
Al422	340	
Al423	30	
Al424	55	
Al425	220	
Al426	320	
Al427	65	
Al428	60	
Al429	120	
Al430	45	
Al431	35	
Al432	10	
Al433	10	
Al434	65	
Al435	120	
Al436	45	
Al437	15	
Al438	70	
Al439	180	
Al440	>1000	0.084

*Main Daley Occurrence
(stripped area)*

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GOLD FIELDS CANADIAN MINING LIMITED

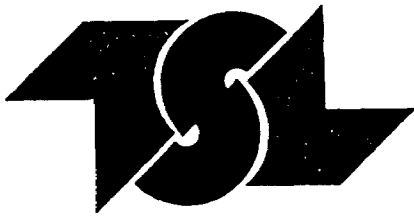
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Timmins, Ontario
P4N 7H9

REPORT No.

W2929

SAMPLE(S) OF rock

INVOICE #: 2839

P.O.: C-BD-89-15

Catharine Project

	Au ppb	Au oz pt
Al421	45	
Al422	340	
Al423	30	
Al424	55	
Al425	220	
Al426	320	
Al427	65	
Al428	60	
Al429	120	
Al430	45	
Al431	35	
Al432	10	
Al433	10	
Al434	65	
Al435	120	
Al436	45	
Al437	15	
Al438	70	
Al439	180	
Al440	>1000	0.084

*Main Daley Occurrence
(stripped area)*

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467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2929

SAMPLE(S) OF ROCK

INVOICE #: 2839

P.O.: C-BD-89-15

Catharine Project

	Au ppb	Au oz pt
A1461	200	
A1462	130	
A1463	360	
A1464	85	
A1465	120	
A1466	80	
A1467	490	
A1468	280	
A1469	350	
A1470	>1000	0.148
A1471	150	
A1472	130	
A1473	200	
A1474	210	
A1475	170	
A1476	920	0.031
A1477	30	
A1478	200	
A1479	30	
A1480	>1000	0.183

*Main Daley Occurrence
(stripped area)*
[Signature]

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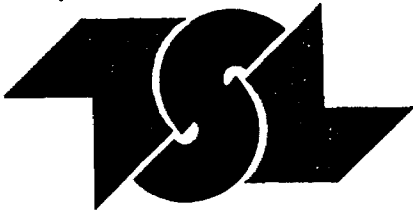
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467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2929

SAMPLE(S) OF rock

INVOICE #: 2839

P.O.: C-BD-89-15

Catharine Project

	Au ppb	Au ozpt
A1461	200	
A1462	130	
A1463	360	
A1464	85	
A1465	120	
A1466	80	
A1467	490	
A1468	280	
A1469	350	
A1470	>1000	0.148
A1471	150	
A1472	130	
A1473	200	
A1474	210	
A1475	170	
A1476	920	0.031
A1477	30	
A1478	200	
A1479	30	
A1480	>1000	0.183

*Main Daley Occurrence
(striped area)*

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467-C Preston Lane
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Timmins, Ontario
P4N 7H9

REPORT No.
W2929

SAMPLE(S) OF rock

INVOICE #: 2839

P.O.: C-BD-89-15

Batchmine Property

	Au ppb	Au ozpt
A1481	>1000	0.214
A1482	75	
A1483	55	
A1484	75	
A1485	75	
A1486	180	
A1487	90	
A1488	65	
A1489	190	
A1490	400	
A1491	45	
A1492	150	
A1493	180	
A1494	25	
A1495	55	
A1496	170	
A1497	35	
A1498	20	
A1499	15	
A1500	30	

*Daily Extension
Trench 1*

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467-C Preston Lane
P.O. Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2929

SAMPLE(S) OF rock

INVOICE #: 2839
P.O.: C-BD-89-15

Catharine Project

	Au ppb	Au ozpt
A1501	30	
A1502	20	
A1503	15	
A1504	380	
A1505	80	
A1506	80	
A1507	180	
A1508	80	
A1509	25	
A1510	25	
A1511	230	
A1512	150	
A1513	120	
A1514	50	
A1515	75	
A1516	70	
A1517	250	
A1518	270	
A1519	210	
A1520	160	

*Daley Extension
March 1*

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GOLD FIELDS CANADIAN MINING LIMITED

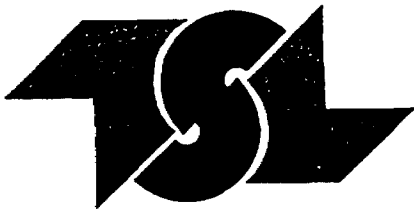
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Timmins, Ontario
P4N 7H9

REPORT No.
W2929

INVOICE #: 2839
P.O.: C-BD-89-15

SAMPLE(S) OF rock

Goldmine Project

	Au ppb	Au ozpt
A1521	60	<i>Daley Extension March 1</i>
A1522	240	
A1523	60	
A1524	20	
A1525	20	
A1526	120	<i>Daley Extension March 2</i>
A1527	25	
A1528	25	
A1529	15	
A1530	120	
A1531	170	
A1532	180	
A1533	120	
A1534	280	
A1535	320	
A1536	430	<i>[Signature]</i>
A1537	70	
A1538	600	
A1539	95	
A1540	70	

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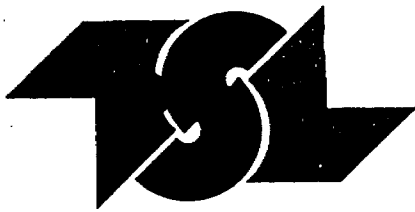
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P4N 7C3

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P.O. Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2929

SAMPLE(S) OF rock

INVOICE #: 2839
P.O.: C-BD-89-15

Goldfield Project

	Au ppb	Au ozpt
A1541	290	
A1542	25	

*Daley Rept.
March 2*

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CATHARINE PROPERTY
 SAMPLE LOCATION SKETCH
 DALEY OCCURRENCE AREA

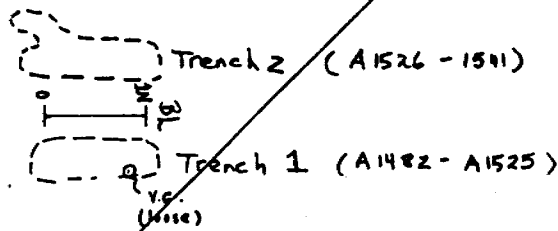
SHIPMENTS:
 C-8D-89-14
 C-8D-89-15

315°
 XL

N

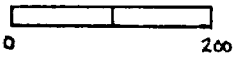
8432.14

DALEY EXTENSION



SCALE

Feet



1" = 200'

48+00N

46+00N

44+00N

42+00N

40+00N

38+00N

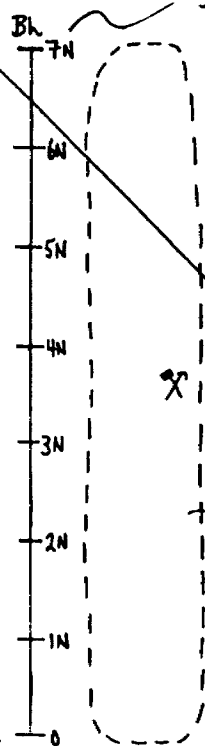
82433

36+00N

34+00N

32+00N

sampling baseline
 (see detailed assay plan)



DALEY occurrence

stripped area

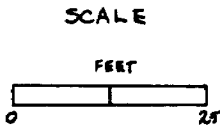
Channel Sample Series
 A1284 - A1481
 TW 2884 - TW 3000

30+00N

82434



DALEY OCCURRENCE
CHANNEL SAMPLING
G.F.C.M. AUG. 1989

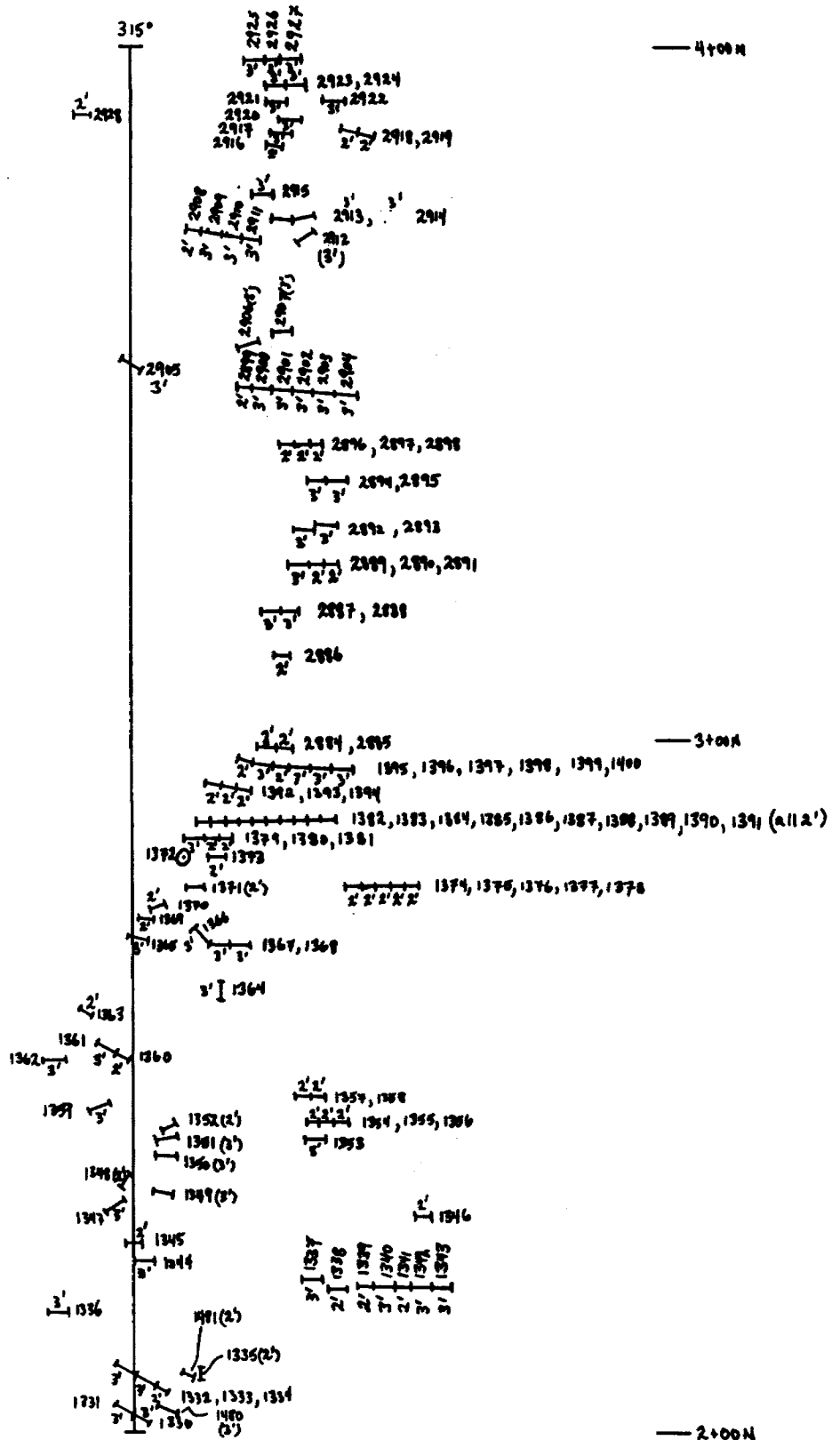


SAMPLE SERIES

- A1330 - A1400
- A 1480 - A 1481
- TW2894 - TW2928

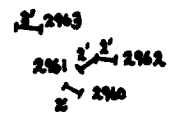
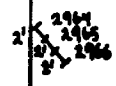
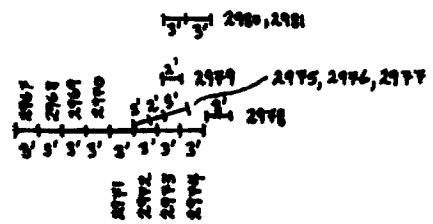
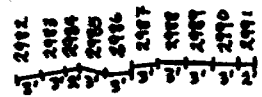
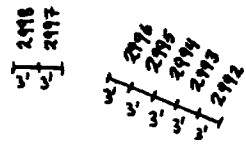
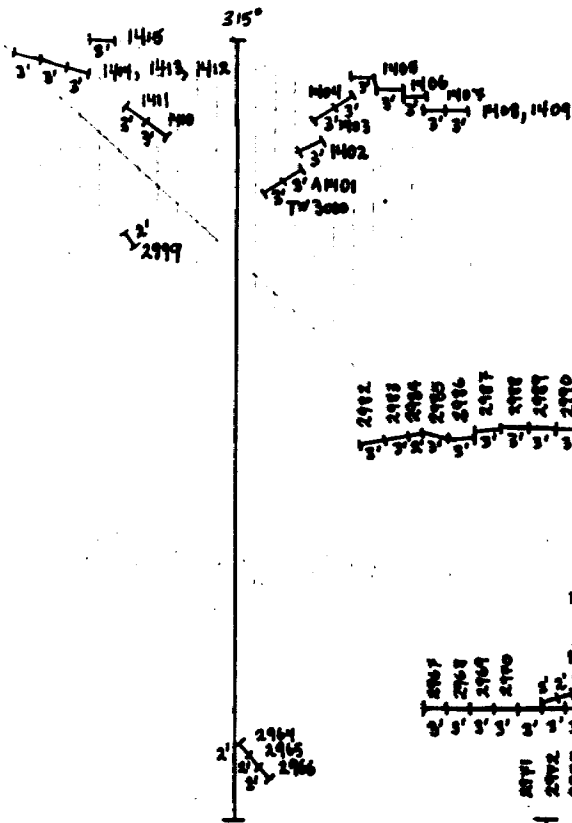
Explanation

- ⊙ grab sample
- |— channel sample

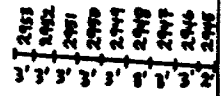
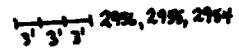




6+00N



5+00N

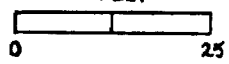


DALEY OCCURRENCE
CHANNEL SAMPLING
G.F.C.M. AUGUST, 1989

SAMPLE SERIES
TW 2929 - TW 3000
A 1401 - A 1415

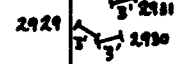
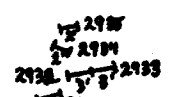
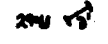
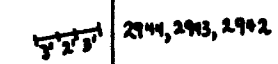
SCALE

FEET



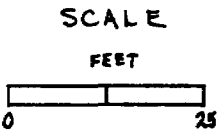
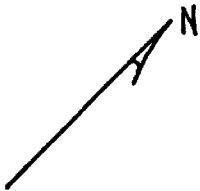
Explanation

channel sample



4+00N

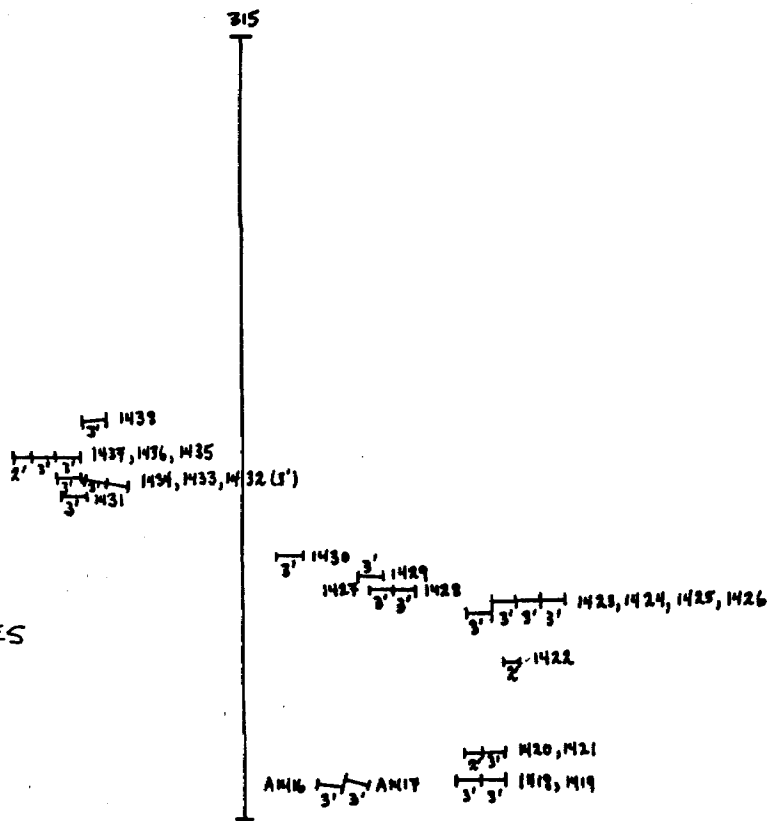
DALEY OCCURRENCE
CHANNEL SAMPLING
G.F.C.M. AUGUST, 1989



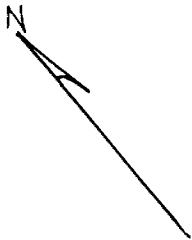
Explanation
 channel sample

— 7+00N

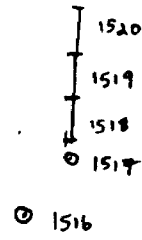
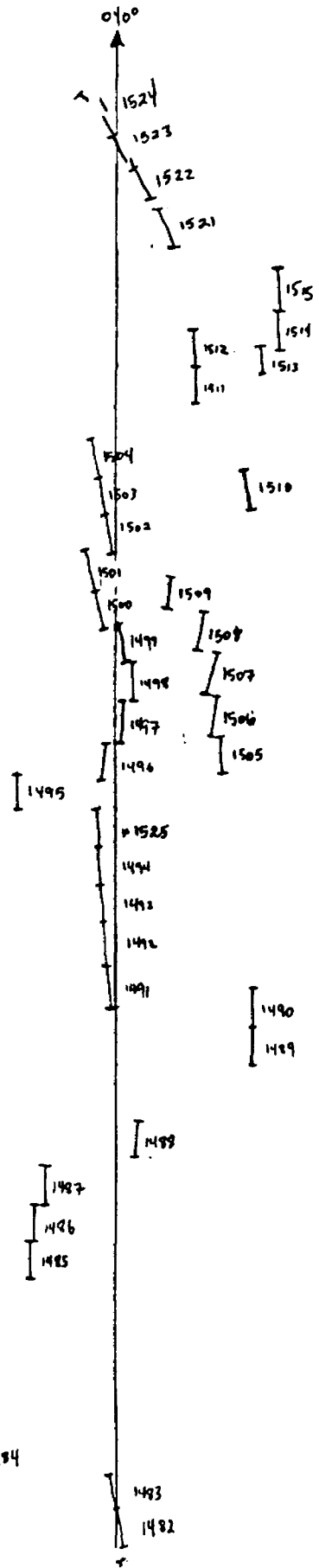
SAMPLE SERIES
A1416 - A1438



— 6+00N



DALEY EXTENSION
TRENCH 1
CHANNEL SAMPLING



- 1+00 NE

- 0+75 NE

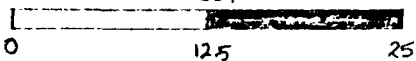
- 0+50 NE

- 0+25 NE

- 0+00

SAMPLE SERIES
A 1482 - A 1525

Scale
Feet



Explanation

- - grab sample
- ┆ - channel sample (3')

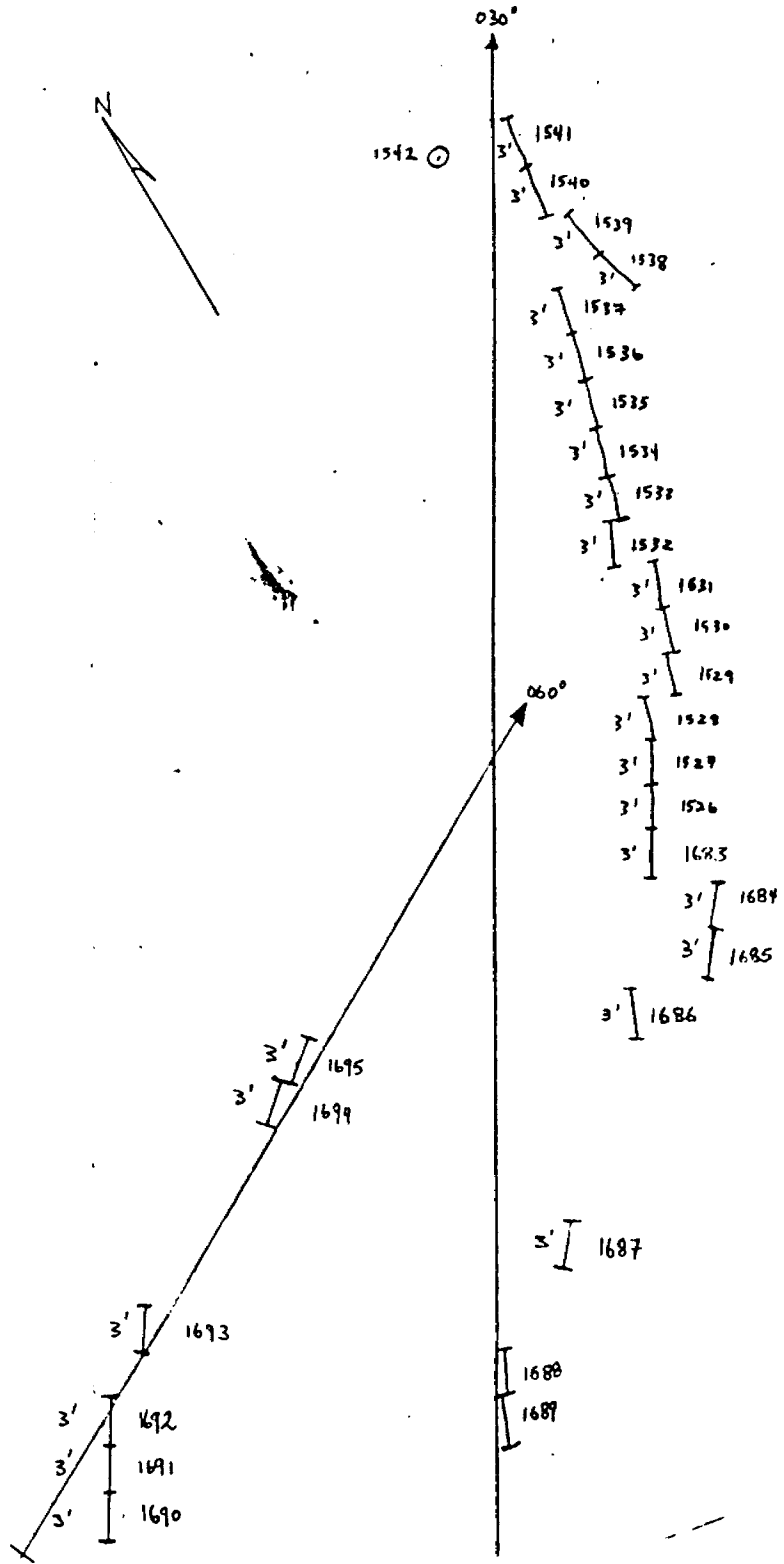
DALEY EXT.
TRENCH 2
CHANNEL SAMPLING

-0+75 NE

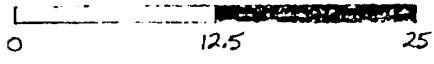
-0+50 NE

-0+25 NE

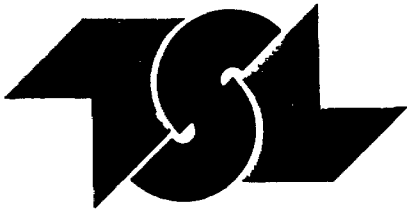
-0+00



SCALE
feet



Explanation
 ⊙ grab sample
 $\frac{1650}{3'}$ channel sample no./length



T S L LABORATORIES

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2031 RIVERSIDE DRIVE, UNIT #2

TIMMINS, ONTARIO

P4N 7C3

☎ (705) 268-4441 FAX: (705) 268-4420

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2974

SAMPLE(S) OF rock

INVOICE #: 2888
P.O.: C-BD-89-16

	Au ppb	Au ozpt
A1601	100	
A1602	170	
A1603	140	
A1604	40	
A1605	35	
A1606	35	
A1607	25	
A1608	95	
A1609	15	
A1610	45	
A1611	10	
A1612	10	
A1613	15	
A1614	110	
A1615	35	
A1616	330	
A1617	>1000	0.054
A1618	>1000	0.041
A1619	180	
A1620	130	

French?
3

batchwise Property

Daley East

RECEIVED
AUG 31 1989

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Aug 18/89

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P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2974

SAMPLE(S) OF rock

INVOICE #: 2888
P.O.: C-BD-89-16

Catharine Property
Daley East


	Au ppb	Au ozpt
A1621	700	
A1622	400	
A1623	800	
A1624	380	
A1625	250	
A1626	>1000	0.051
A1627	>1000	0.055
A1628	40	
A1629	110	
A1630	>1000	0.036
A1631	>1000	0.062
A1632	150	
A1633	110	
A1634	80	
A1635	270	
A1636	35	
A1637	60	
A1638	55	
A1639	830	
A1640	>1000	0.031

Sheet 3

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P4N 7C3

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467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2974

SAMPLE(S) OF rock

INVOICE #: 2888
P.O.: C-BD-89-16

Au ppb Au ozpt

Catharine Property

Daley East
[Signature]

# 3	A1641	170
	A1642	280
	A1643	250
	A1644	40
	A1645	20
<i>o/c 3/4</i>	A1646	25
	A1647	110
	A1648	30
	A1649	190
	A1650	35
<i>Send 4</i>	A1651	70
	A1652	180
	A1653	25
	A1654	30
	A1655	90
		A1656
	A1657	15
	A1658	15
	A1659	210
	A1660	180

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SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O. Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.

W2974

SAMPLE(S) OF rock

INVOICE #: 2888

P.O.: C-BD-89-16

	Au ppb	Au ozpt
Al661	30	
Al662	500	
Al663	5	
Al664	>1000	0.035
Al665	120	
Al666	570	
Al667	>1000	0.047
Al668	230	
Al669	90	
Al670	55	
Al671	15	
Al672	30	
Al673	20	
Al674	45	
Al675	540	
Al676	20	
Al677	35	
Al678	25	
Al679	25	
Al680	15	

*Catharine Property
Daley Exp*

Trench 4

Trench 5

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TIMMINS, ONTARIO

P4N 7C3

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467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W2974

SAMPLE(S) OF rock

INVOICE #: 2888
P.O.: C-BD-89-16

Canadian Property
Daley Coft
[Signature]

Trench 5
Trench 2

	Au ppb	Au ozpt
A1681	15	
A1682	20	
A1683	40	
A1684	20	
A1685	50	
A1686	40	
A1687	>1000	0.037
A1688	20	
A1689	95	
A1690	15	
A1691	40	
A1692	25	
A1693	390	
A1694	25	
A1695	15	

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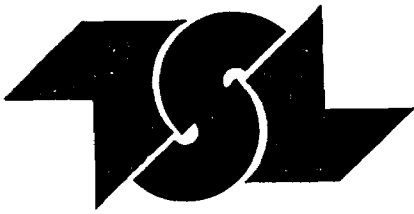
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Timmins, Ontario
P4N 7H9

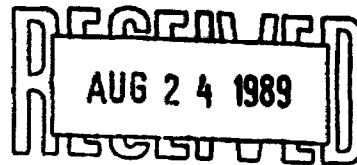
REPORT No.
W2973

INVOICE #: 2878

P.O.: C-BD-89-17

SAMPLE(S) OF ROCK

	Au ppb	Au ozpt
A6401	>1000	1.407
A6402	>1000	0.424
A6403	>1000	0.821



*Catharine Project
Daley Extension
Sheet 1*

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Page 1 of 1

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CATHARINE PROPERTY
 SAMPLE LOCATION SKETCH
 DALEY OCCURRENCE AREA

SHIPMENT C-BD-89-16
 C-BD-89-17

DALEY EXTENSION

315°
 XL

Trench 5 (A1672-1682)

Trench 4 (A1649-1671)

Outcrop 3/4 (A1642-1648)

Trench 3 (A1601-1641)

Trench 2 (A1683-1695)

Trench 1
 no. noted in loose
 (A1601-16403)

48+00N

46+00N

44+00N

42+00N

40+00N

38+00N

36+00N

34+00N

32+00N

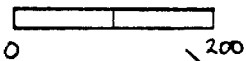
30+00N

843214

821433

SCALE

Feet



Explanation

○ stripped area

∨ Swamp

DALEY OCCURRENCE

821434

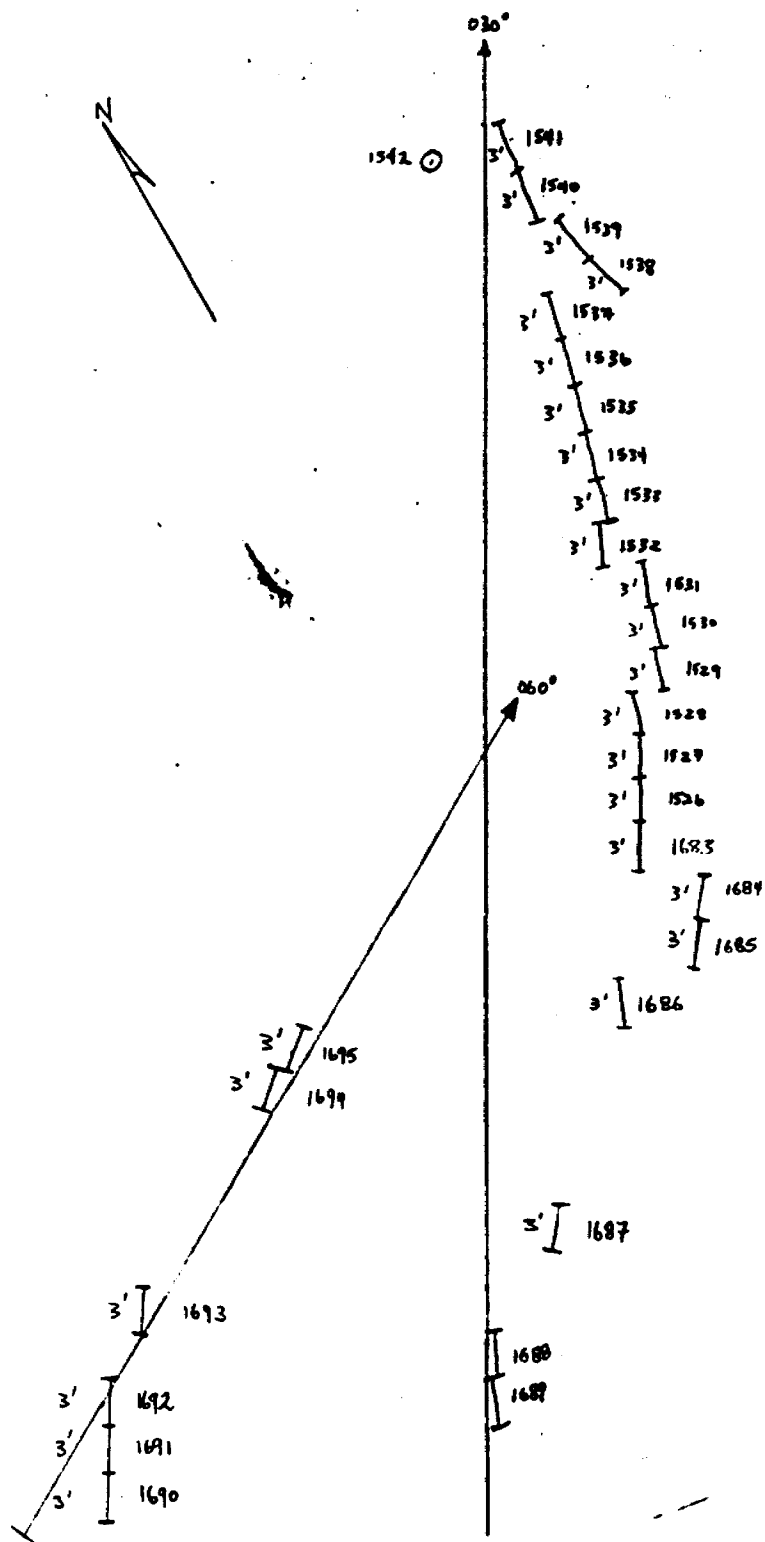
DALEY EXT.
TRENCH 2
CHANNEL SAMPLING

-0+75 NE

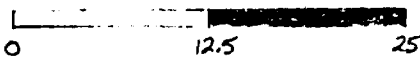
-0+50 NE

-0+25 NE

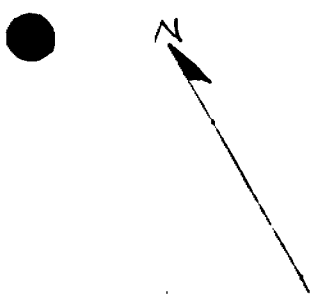
-0+00



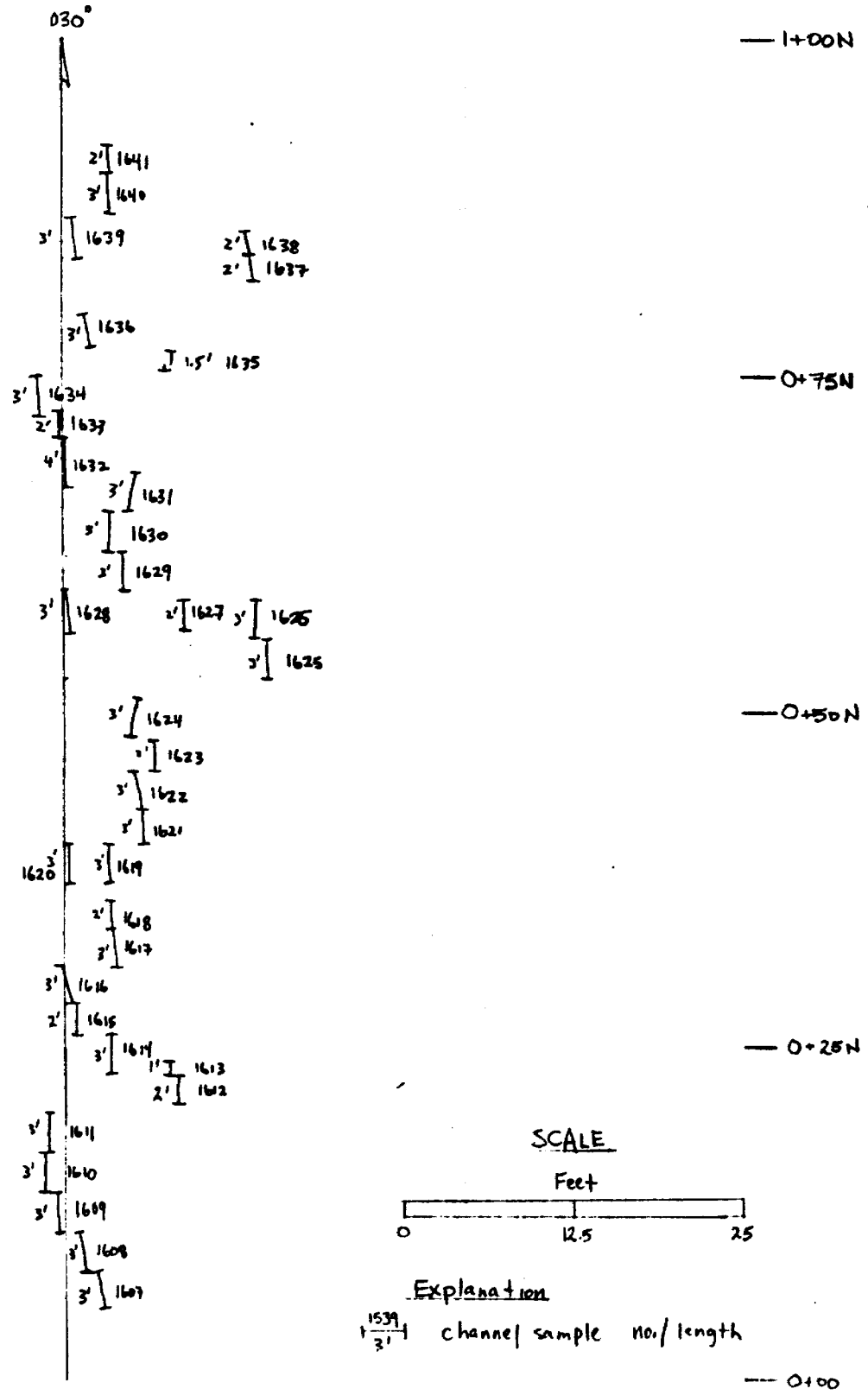
SCALE
feet



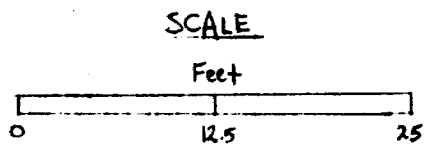
Explanation
 ⊙ grab sample
 $\frac{1650}{3'}$ channel sample no./length



DALEY EXTENSION
TRENCH 3
CHANNEL SAMPLING



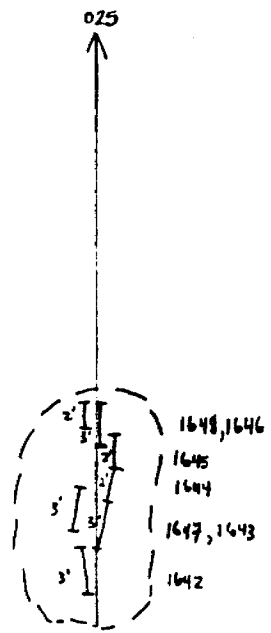
1606 | 2'
1602 | 3' 1605 | 2'
1602 | 3' 1604 | 2'
1601 | 2'



Explanation

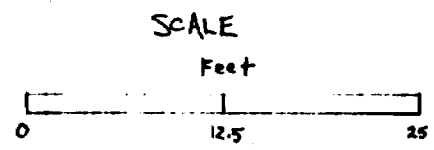
$\frac{1539}{3'}$ channel sample no./length

DALEY EXTENSION
 OUTCROP 3/4
 CHANNEL SAMPLING



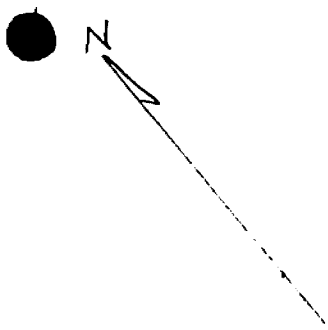
— 0+25N

— 0+00



Explanation
 $\frac{1959}{3'}$ channel sample no./length

DALEY EXTENSION
TRENCH 4
CHANNEL SAMPLING



040°

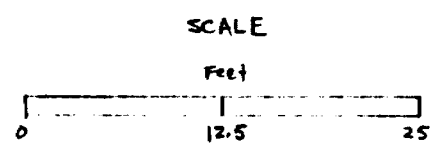
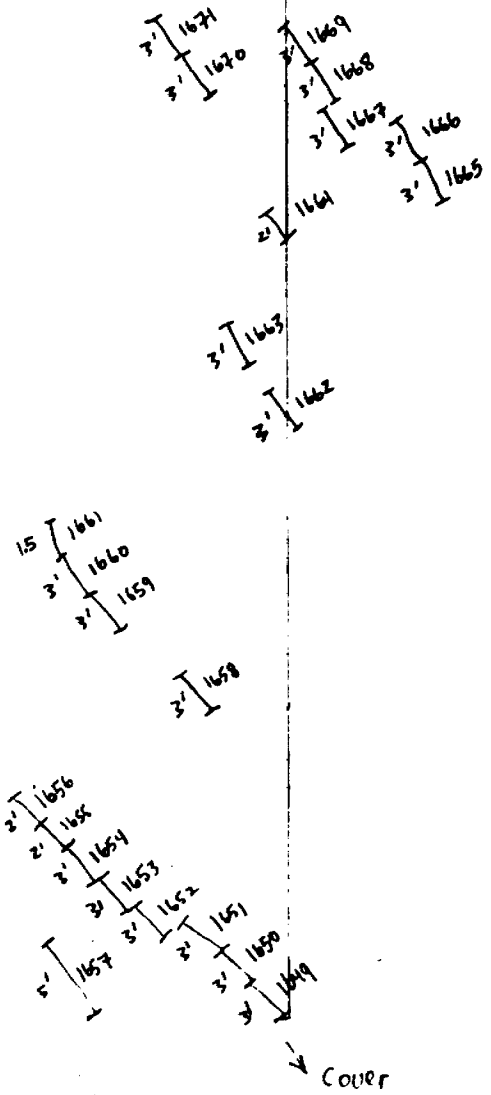
— 1+00 NE

— 0+75 NE

— 0+50 NE

— 0+25 NE

— 0+00



EXPLANATION

$\frac{11659}{3'}$ channel sample no./length

Pit

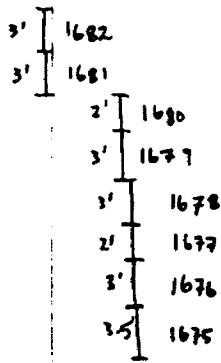
Cover



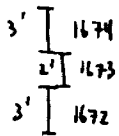
DALEY EXTENSION
TRENCH 5
CHANNEL SAMPLING

020°
^

— 0+50 NE

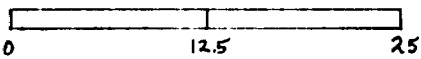


— 0+25 NE

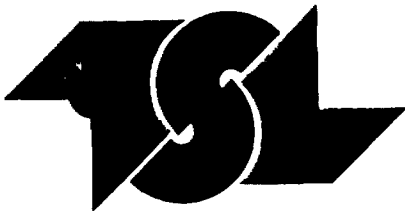


— 0+00

SCALE
Feet



Explanation
1645
| 3' | channel sample no./length



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2031 RIVERSIDE DRIVE, UNIT #2

TIMMINS, ONTARIO

P4N 7C3

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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W3009

SAMPLE(S) OF rock

INVOICE #: 2918

P.O.: C-BD-89-18

	Au ppb	Au ozpt
A1696	10	
A1697	10	
A1698	10	
A1699	470	
A1700	130	
A1701	130	
A1702	160	
A1703	30	
A1704	65	
A1705	25	
A1706	290	
A1707	30	
A1708	25	
A1709	15	
A1710	15	
A1711	20	
A1712	15	
A1713	20	
A1714	15	
A1715	20	

o/c ±

*Catharine Property
Fault zone
occurrence*

REGISTERED
AUG 31 1989

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P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W3009

INVOICE #: 2918
P.O.: C-BD-89-18

SAMPLE(S) OF ROCK

*Catharine Property
Fault zone Occurrence*
[Signature]

	Au ppb	Au oz pt
A1716	10	
A1717	950	0.028
A1718	40	
A1719	30	
A1720	55	
A1721	35	
A1722	25	
A1723	60	
A1724	240	
A1725	70	
A1726	35	
A1727	630	
A1728	330	
A1729	65	
A1730	55	
A1731	680	
A1732	85	
A1733	520	
A1734	30	
A1735	380	

o/c 2

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[Signature]

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CERTIFICATE OF ANALYSIS

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467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W3009

SAMPLE(S) OF rock

INVOICE #: 2918
P.O.: C-BD-89-18

	Au ppb	Au ozpt
A1736	430	
A1737	>1000	0.071
A1738	400	
A1739	>1000	0.167
A1740	380	
A1741	180	
A1742	80	
A1743	120	
A1744	30	
A1745	30	
A1746	25	
A1747	35	
A1748	15	
A1749	85	
A1750	20	
A1751	35	
A1752	60	

o/c 2

o/c 3

*Catharic Property
Fault zone occurrence
[Signature]*

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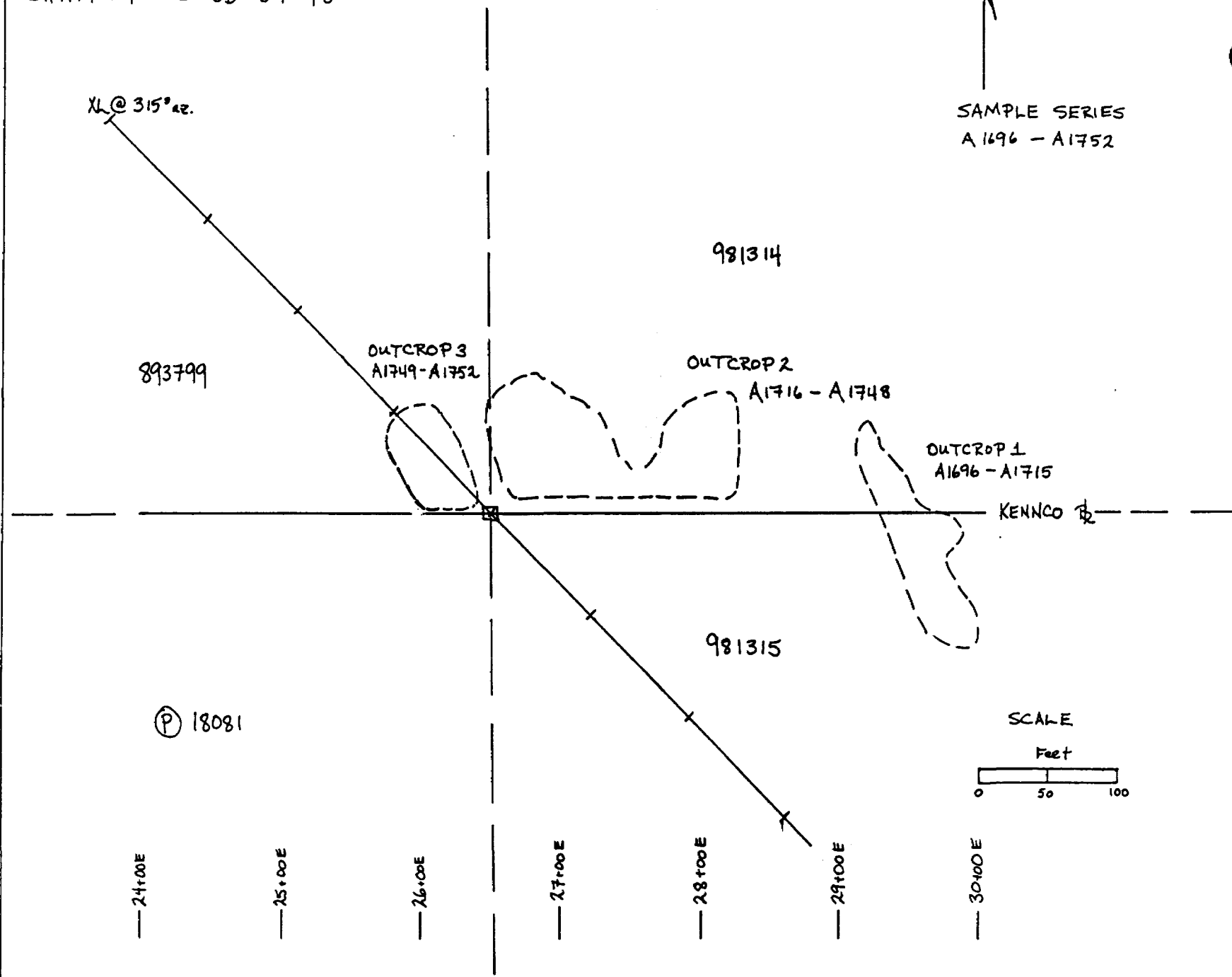


CATHARINE PROJECT
G.F.C.M. AUGUST, 1989
SHIPMENT C-8D-89-18

ROCK CHANNEL SAMPLING
FAULT ZONE OCCURRENCE



SAMPLE SERIES
A 1696 - A1752



XL @ 315° az.

893799

OUTCROP 3
A1749-A1752

981314

OUTCROP 2
A1716-A1748

OUTCROP 1
A1696-A1715

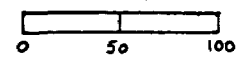
KENNCO 1/2

981315

(P) 18081

SCALE

Feet



24+00E

25+00E

26+00E

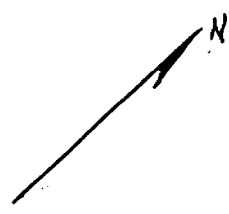
27+00E

28+00E

29+00E

30+00E

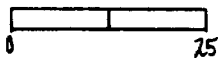
CATHARINE PROPERTY
 FAULT ZONE OCCURRENCE
 CHANNEL SAMPLING
 G.F.C.M., AUGUST, 1989



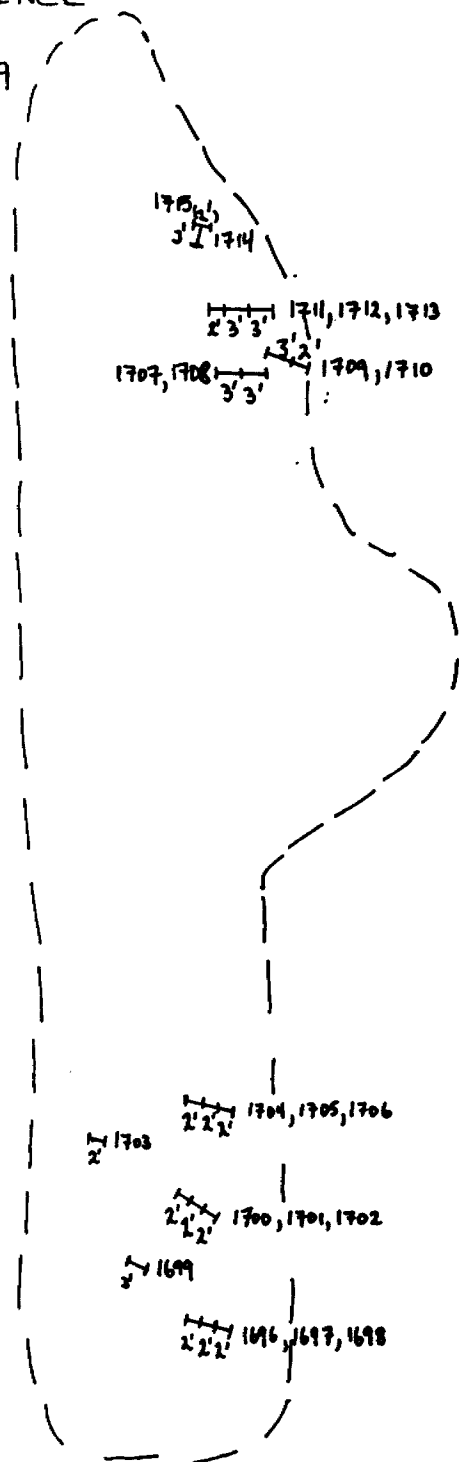
OUTCROP 1
 A1696 - A1715

SCALE

FEET



(schematic; locations approximate)



— 1+50N

— 1+25N

— 1+00N

— 0+75N

— 0+50N

— 0+25N

— 0+00

1+50w

1+25w

1+00w

0+75w

0+50w

0+25w

0+00

2' I 1749
1750
3' 3' 2' 1751, 1752

OUTCROP 3
A1749 - A1752

CATHARINE PROPERTY
FAULT ZONE OCCURRENCE
CHANNEL SAMPLING
G.F.C.M., AUGUST, 1989

3' I 1748
3' 1747
3' 1746
3' 1745
3' 1744
3' 1743
3' 1742

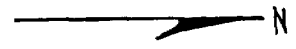
OUTCROP 2
A1716 - A1749

1724, 1725, 1726
2' 2' 2'
1723

1737
2' 2' 2' 1740 1739
2' 1738
1734, 1735, 1736
1733
2' 2' 2' 1730, 1731, 1732
2' 2' 2' 1727, 1728, 1729

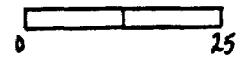
1720, 1721, 1722
2' 3' 3'

1719
1718
1717
1716

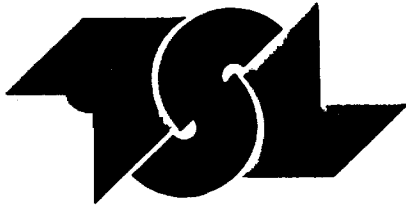


SCALE

Feet



(schematic; locations approximate)



T S L LABORATORIES

DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED

2031 RIVERSIDE DRIVE, UNIT #2

TIMMINS, ONTARIO

P4N 7C3

☎ (705) 268-4441 FAX: (705) 268-4420

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W3 037

SAMPLE(S) OR rock

INVOICE #: 2962
P.O.: C-BD-89-19

	Au ppb	Au ozpt	As ppm	Mo ppm
A1544	30			
A1545	15			
A1546	60			
A1547	20			
A1548	30			
A1549	35			
A1550	10			
A1557	15			
A1558	10			
A1559	10			
A1560	10		18	4
A1561	20		8	5
A1562	45		11	3
A1563	20		11	4
A1564	15		15	4
A1565	10		10	4
A1566	>1000	0.111	180	4
A1567	>1000	0.201	260	3
A1568	240			
A1569	75			

RECEIVED
SEP - 6 1989

*Barbara Property
Haliburton Occ.*

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INVOICE TO: Timmins

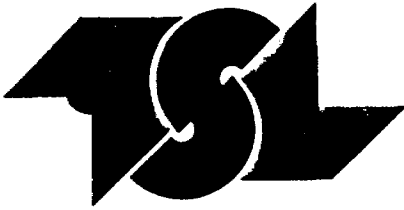
While we believe this information to have been obtained in accordance with standard industry practices, we make no representation with respect to, nor do we assume any responsibility for the correctness thereof.
GOLD FIELDS CANADIAN MINING LIMITED

Aug 29/89

SIGNED _____



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T S L LABORATORIES

DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED

2031 RIVERSIDE DRIVE, UNIT #2

TIMMINS, ONTARIO

P4N 7C3

☎ (705) 268-4441 FAX: (705) 268-4420

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.

W3037

SAMPLE(S) OF rock

INVOICE #: 2962

P.O.: C-BD-89-19

	Au ppb	Au ozpt	As ppm	Mo ppm
A1570	10			
A1571	15		65	3
A1572	>1000	0.242	4900	3
A1573	85		180	2
A1574	>1000	0.493	10,500	2
A1575	>1000	0.267	8000	3
A1576	950	0.028	870	3
A1577	900	0.025	190	3
A1578	260		190	3
A1579	60		54	3
A1580	140		78	3
A1581	75		14	1
A1582	100		75	3
A1583	90		32	3
A1584	190		88	3
A1585	>1000	0.460	290	5
A1586	>1000	0.187	80	4
A1587	890	0.026	110	4
A1588	250		62	3
A1589	>1000	0.031	150	7

Catherine Prop
Kalynuk Occ.

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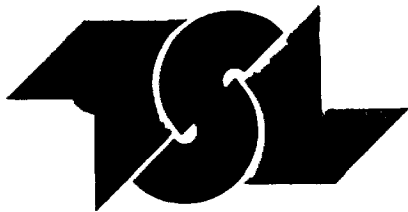
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Aug 29/89

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TIMMINS, ONTARIO
P4N 7C3

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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W3 037

SAMPLE(S) OF rock

INVOICE #: 2962
P.O.: C-BD-89-19

	Au ppb	Au oz pt	As ppm	Mo ppm
A1590	85		57	3
A1591	80			
A1592	120			
A1593	120			
A1594	590			
A1595	75			
A1596	55			
A1597	40			
A1598	30			
A1599	35			
A1600	15			
A1851	20			
A1852	10			
A1853	15			
A1854	15			
A1855	10			
A1856	10			
A1857	15			
A1858	15			
A1859	10			

*Catherine Prop.
Kolyunik Occ.*

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GOLD FIELDS CANADIAN MINING LIMITED

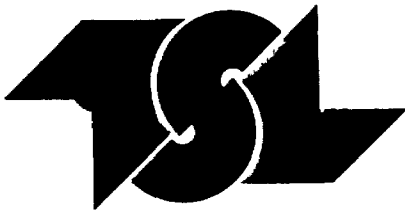
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467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W3037

SAMPLE(S) OF Rock

INVOICE #: 2962
P.O.: C-BD-89-19

	Au ppb	Au oz pt	As ppm	Mo ppm
A1860	30			
A1861	20			
A1862	35			
A1863	25			
A1864	25			
A1865	15			
A1866	60			
A1867	240			
A1868	30			
A1869	15			
A1870	20			
A1871	25			
A1872	20			
A1873	15			
A1874	20			
A1875	25			
A1876	260			
A1877	50			
A1878	145			
A1879	35			

*Catherine Prop.
Kalyunik Occ.
[Signature]*

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GOLD FIELDS CANADIAN MINING LIMITED

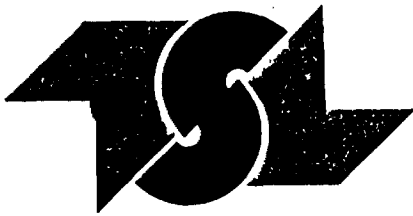
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SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W3037

INVOICE #: 2962
P.O.: C-BD-89-19

SAMPLE(S) OF rock

	Au ppb	Au ozpt	As ppm	Mo ppm
A1880	15			
A1881	15			
A1882	80			
A1883	30			
A1884	10			
A1885	10			
A1886	10			
A1887	10			
A1888	10			
A1889	10			
A1890	20			
A1891	15			
A1892	10			
A1893	10			
A1894	10			
A1895	10			
A1896	15			
A1897	20			
A1898	20			
A1899	30			

*Geochimie Dep.
Kalyonak Occ*

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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W3037

INVOICE #: 2962

P.O. : C-BD-89-19

SAMPLE(S) OF rock

	Au ppb	Au oz pt	As ppm	Mo ppm
A1900	25			
A1901	25			
A1902	5			
A1903	5			
A1904	5			
A1905	5			
A1906	<5			
A1907	5			
A1908	5			
A1909	5			
A1910	5			
A1911	5			
A1912	5			
A1913	5			
A1914	5			
A1915	5			
A1916	5			
A1917	5			
A1918	80			
A1919	55			

*Catherine Prop.
Klynnk Dec.*

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SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W3037

SAMPLE(S) OF Rock

INVOICE #: 2962
P.O.: C-BD-89-19

	Au ppb	Au ozpt	As ppm	Mo ppm
A1920	25			
A1921	5			
A1922	5			
A1923	10			
A1924	5			
A1925	5			
A1926	5			
A1927	10			
A1928	10			
A1929	5			
A1930	20			
A1931	5			
A1932	5			
A1933	5			
A1934	5			
A1935	5			
A1936	140			
A1937	260			

Catherine Prop
Kalypnik Dec.

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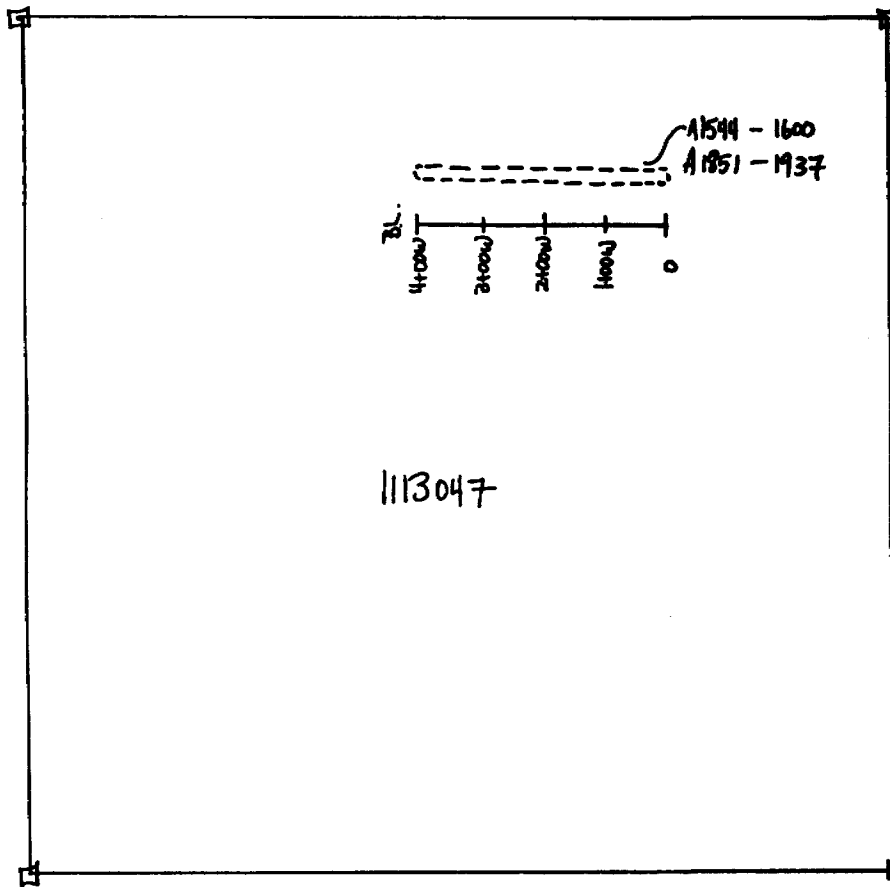
Aug 29/89

SIGNED

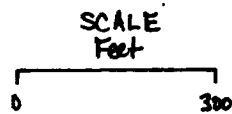
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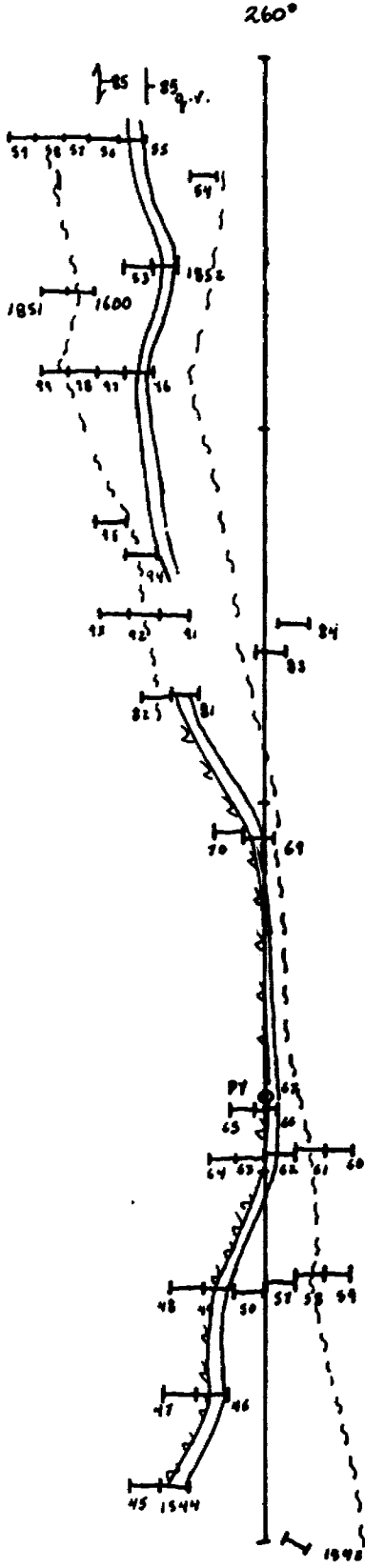


1.
CHANNEL SAMPLE LOCATION MAP
CLAIM 1113047
SHIPMENT C-BD-89-19



1113047

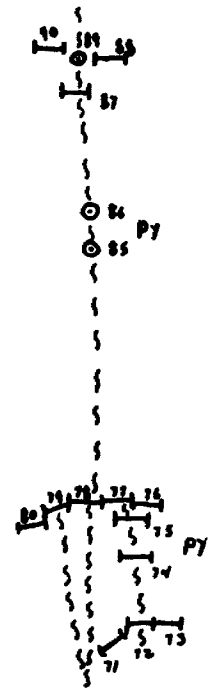




1+00w



Host: locally pillowed,
generally massive
med. to coarse gr.
mafic volcanics



0+00w

Shipment C-BD-89-19
Kalyniuk Showing
1113047

— Qtz vn
~ ~ Fault
PY - pyrite conc.



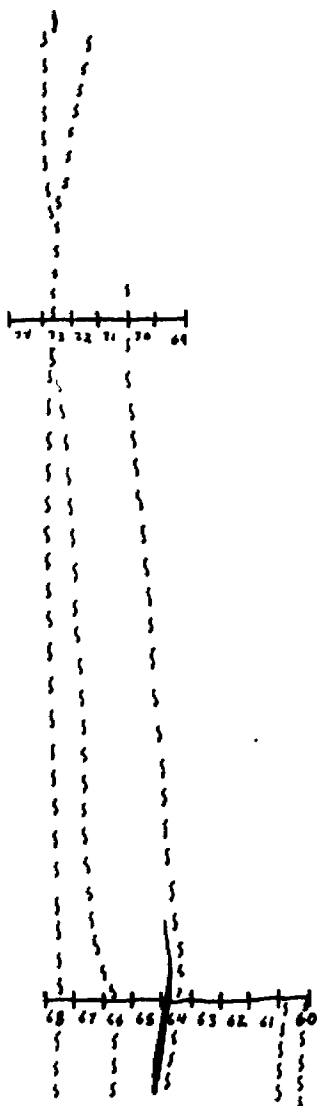
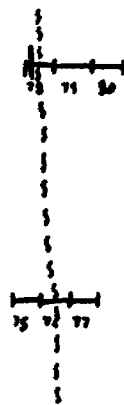
1" = 12.5 ft

A-1543-1550 / A 1557-1600 / A 1851-1869.

260°



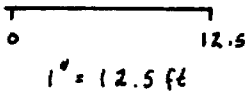
2100W



1100W

Kalynuk Showing
1113047

— Qbz va
~ Fault

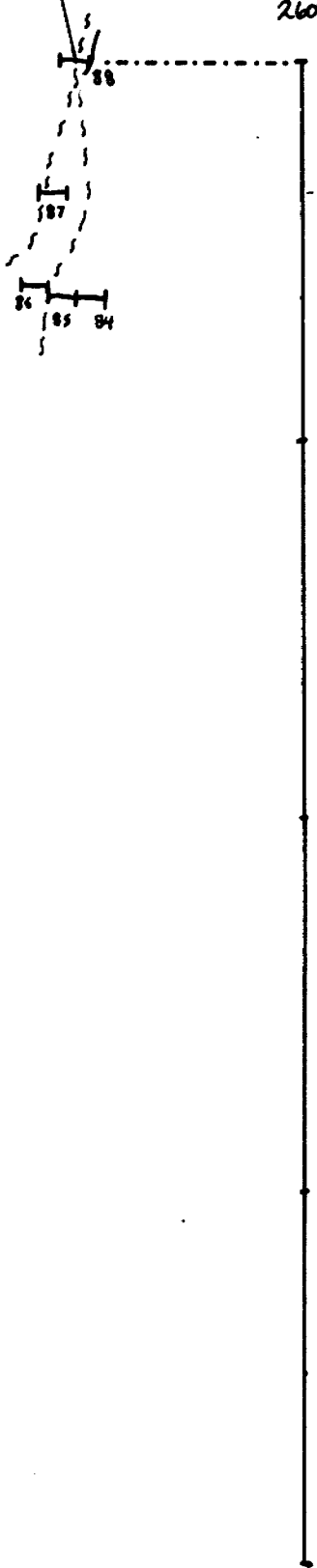


A-1860-1880

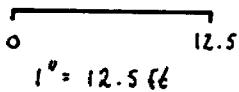
204°

260°

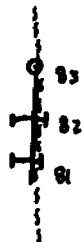
3700W



Kalyansk Showing
 1113047
 — Qtz VN
 ~ ~ Fault



A-1881-1888

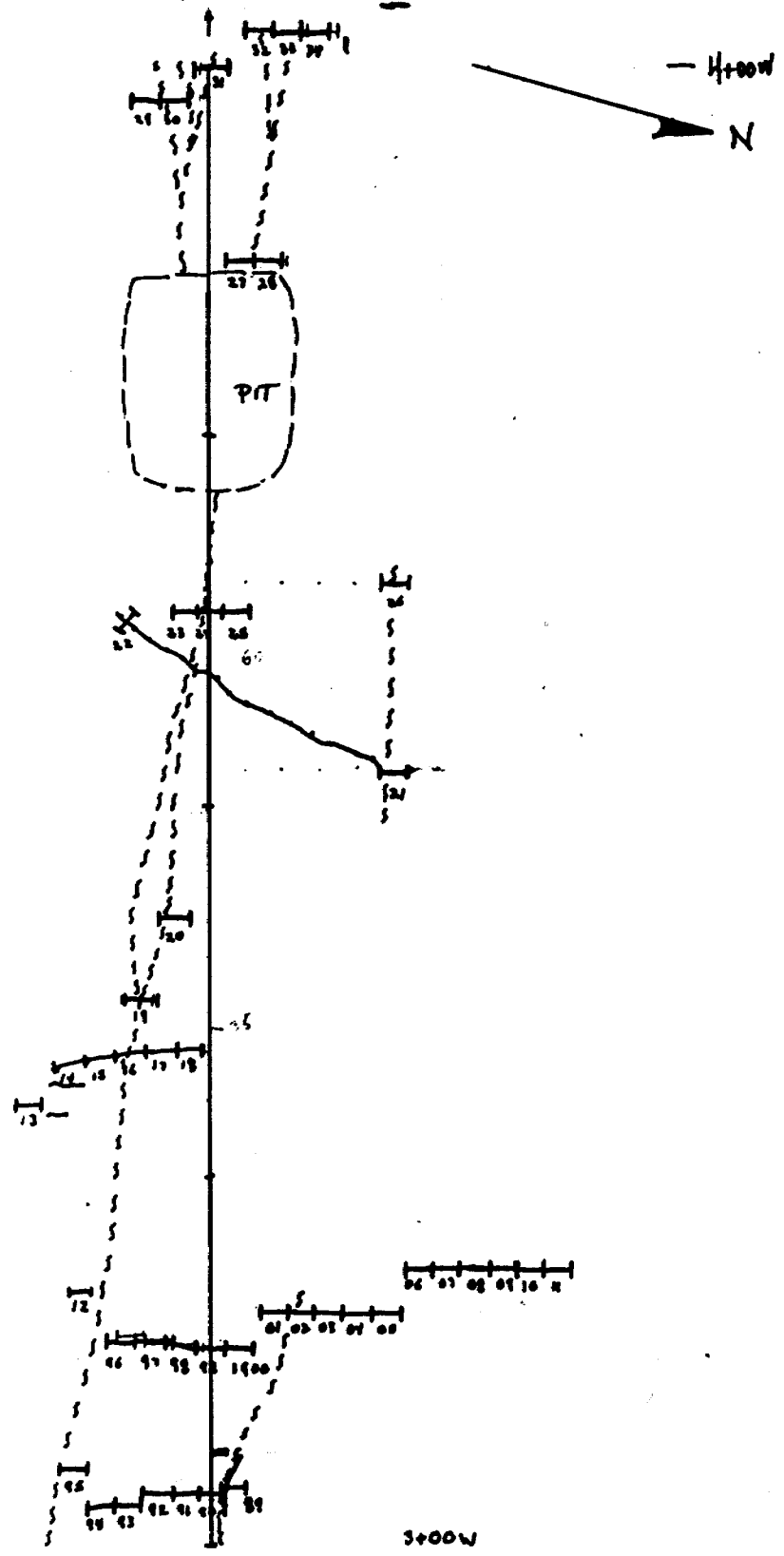


2100W

37 > 4170 w old pit

38

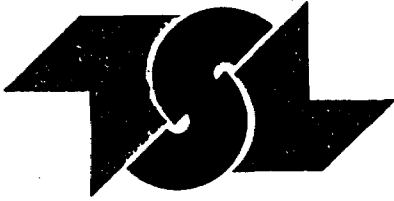
254°



Kalynuk Showing
 1113047
 — Qtz v/a
 ~ Fault.

0 12.5
 1" = 12.5 ft

A-1889-1937



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DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED

2031 RIVERSIDE DRIVE, UNIT #2
TIMMINS, ONTARIO
P4N 7C3

☎ (705) 268-4441 FAX: (705) 268-4420

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W3144

SAMPLE(S) OF rock

INVOICE #: 3067
P. O. : C-PC-89-8

Au
ppb

*Barren
Project
[Signature]*

*Barren
1649179*

1767	160
1768	70
1769	30
1770	210
1771	130
1772	170
1773	480
1774	65

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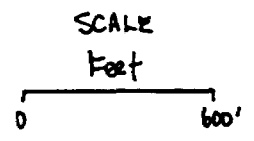
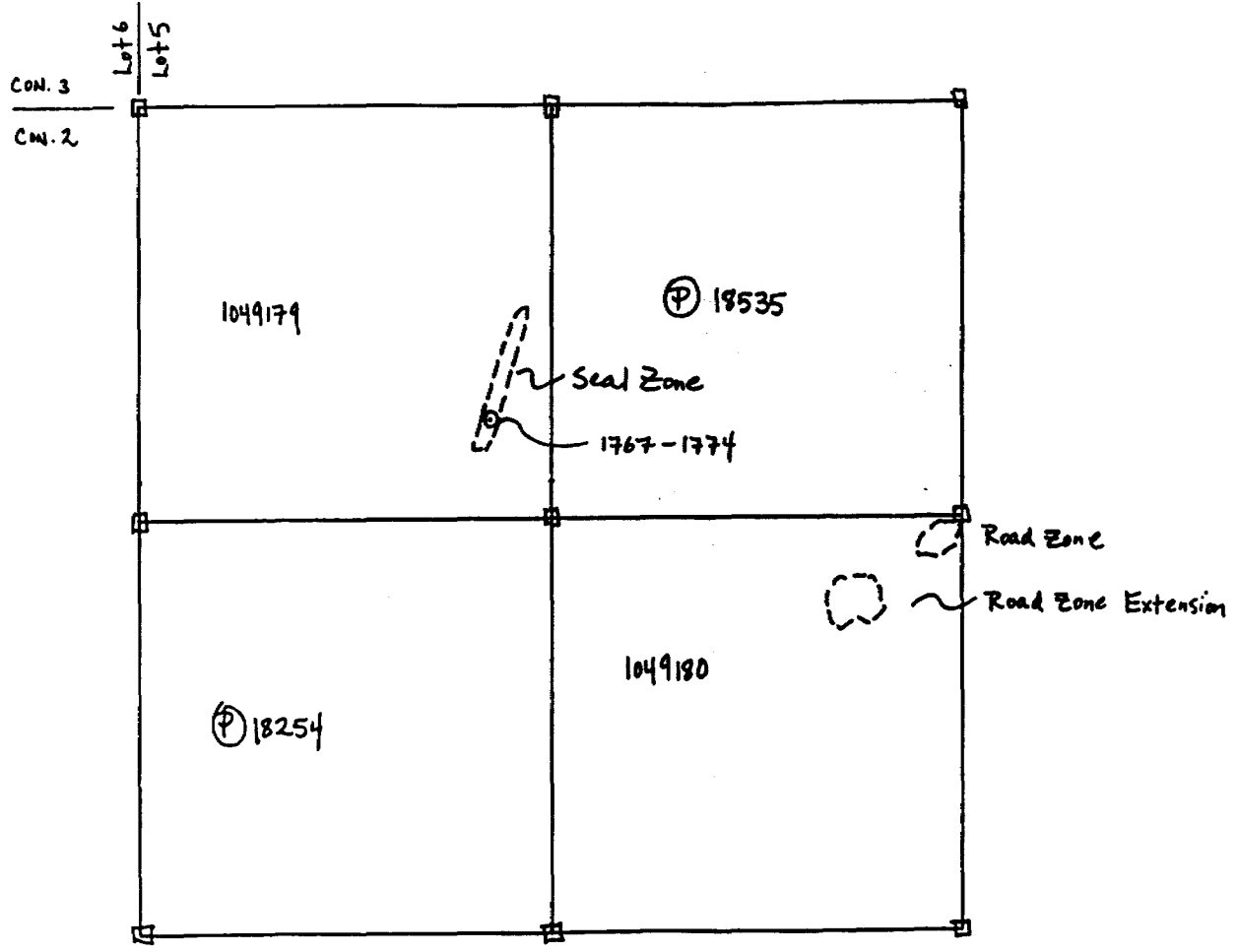
Sep 15/89

SIGNED *[Signature]*



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CATHARINE TWP
A 1767 - 1774
C.P.C. 89.8

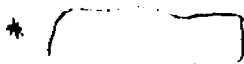


Catharine TWP

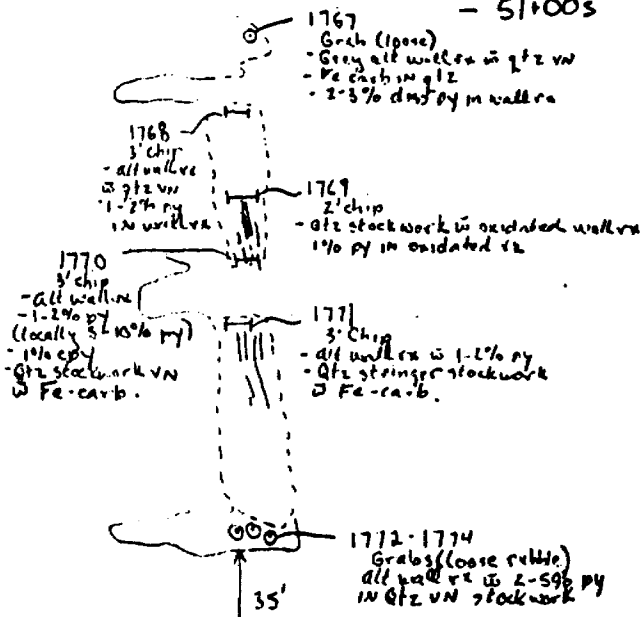
L. 1049179

Sept 5/81.

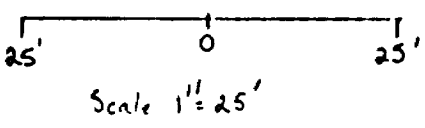
A 1767-1774



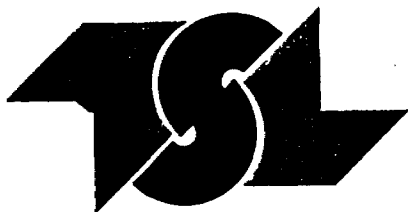
- 5100s



* Infilled pits and trenches, NO d/c or rubble



— Qtz v. w.



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DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED

2031 RIVERSIDE DRIVE, UNIT #2
TIMMINS, ONTARIO
P4N 7C3

☎ (705) 268-4441 FAX: (705) 268-4420

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W3417

SAMPLE(S) OF ROCK

INVOICE #: 3359
P. O. :

C-PC-89-15

	Au ppb	Au ozpt
A 6697	650	
A 6698	530	
A 6699	520	
A 6700	25	
A 6701	15	
A 6702	75	
A 6703	25	
A 6704	10	
A 6705	560	
A 6706	540	
A 6707	490	
A 6708	>1000	0.079
A 6709	60	
A 6710	100	
A 6711	>1000	0.044
A 6712	480	
A 6713	260	
A 6714	290	
A 6715	320	
A 6716	130	

*Catherine Project
Seal Zone*

*From
0700N - 2700N*

RECEIVED
OCT 31 1989

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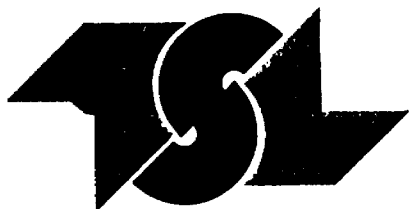
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Oct 24/89

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2031 RIVERSIDE DRIVE, UNIT #2

TIMMINS, ONTARIO

P4N 7C3

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467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W3417

INVOICE #: 3359
P.O.:

SAMPLE(S) OF rock

C-PC-89-15

*Catherine Project
Seal Zone*

	Au ppb	Au ozpt
A 6717	820	<i>From 0100N-2700N</i>
A 6718	140	
A 6719	100	
A 6720	140	
A 6721	230	
A 6751	50	<i>Channel samples</i>
A 6752	170	
A 6753	80	
A 6754	50	
A 6755	40	
A 6756	60	
A 6757	130	
A 6758	420	
A 6759	170	
A 6760	890	
A 6761	110	
A 6762	35	
A 6763	360	
A 6764	210	
A 6765	40	

RECEIVED
OCT 31 1989

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[Signature]

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P4N 7C3

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467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W3417

SAMPLE(S) OF rock

INVOICE #: 3359
P. O. :

C-PC-89-15

	Au ppb	Au ozpt
A 6766	45	
A 6767	5	
A 6768	65	
A 6769	90	
A 6770	100	
A 6771	160	
A 6772	150	
A 6773	55	
A 6774	80	
A 6775	80	
A 6776	15	
A 6777	75	
A 6778	430	
A 6779	45	
A 6780	95	
A 6781	600	
A 6782	270	
A 6783	130	
A 6784	30	
A 6785	30	

*Lakerine Project
Seal zone*

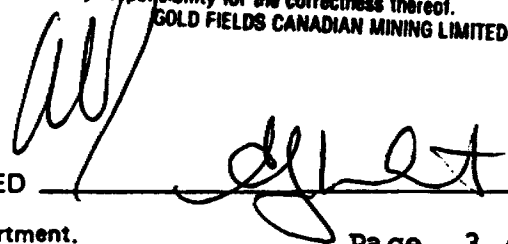
Channel Samples

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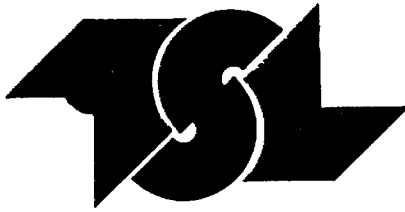
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P4N 7C3

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CERTIFICATE OF ANALYSIS

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467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W3417

SAMPLE(S) OF rock

INVOICE #: 3359
P.O.:

C-PC-89-15

*Catherine Pigeot
Seal zone*

	Au ppb	Au ozpt
A 6786	20	
A 6787	820	
A 6788	65	
A 6789	200	
A 6790	50	
A 6791	45	
A 6792	10	
A 6793	30	
A 6794	40	
A 6795	35	
A 6796	220	
A 6797	35	
A 6798	25	
A 6799	75	

*Channel
Samples*

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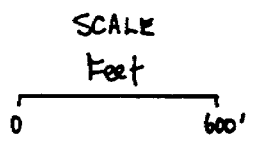
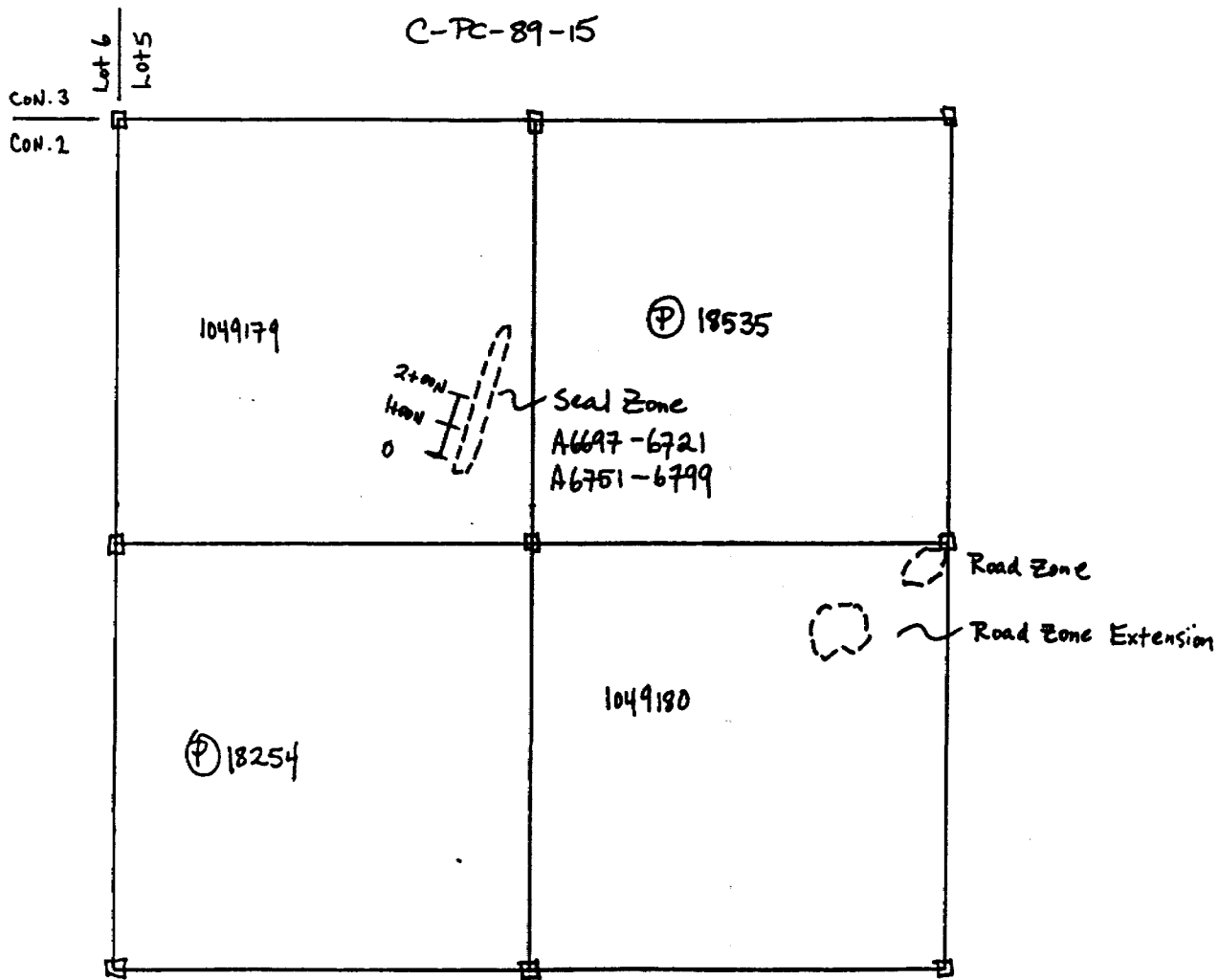


CATHARINE TWP.

A6697-6721

A6751-6799

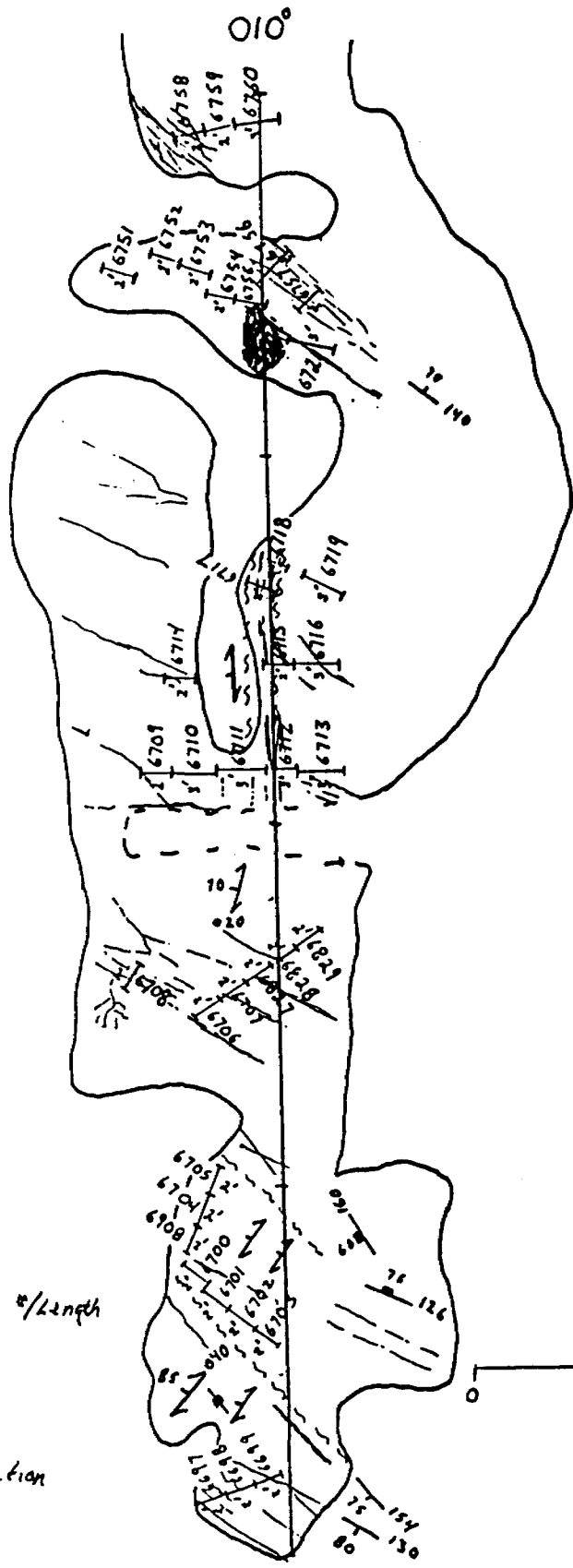
C-PC-89-15



Seal Zone
 Geology/channel sampling
 A6697-6721 / 6751-6760 / 6908, 6827, 6828, 6829



C-PC-89-16
 1+00N



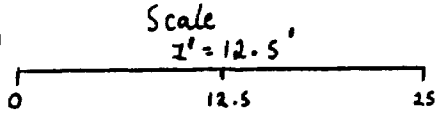
0+75N

0+50N

0+25N

0+00N

- Explanation
- Channel sample #/length
 - - - Fault
 - Qtz vln
 - Shear
 - Jointing
 - zone of alteration

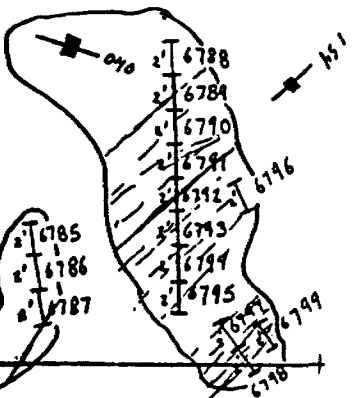


Seal Zone
 Geology/channel sampling
 A 6761 - 6799



020°

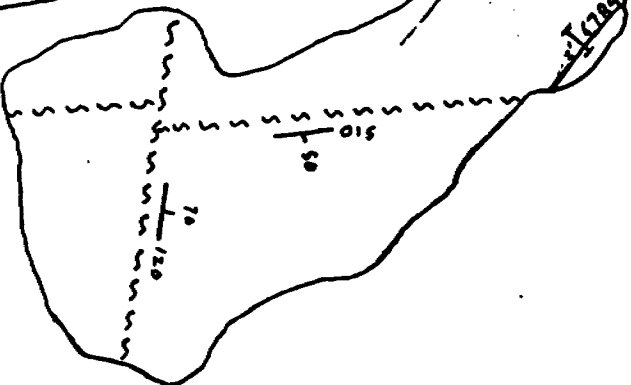
2+00N



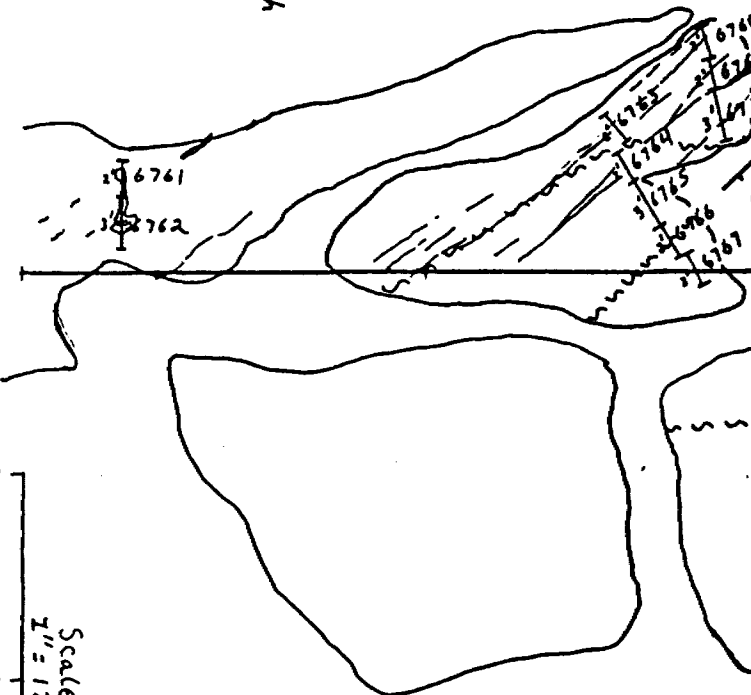
1+75N



1+50N

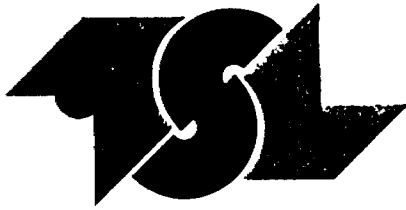


1+25N



Explanation
 H channel sample #/length
 --- Fault
 --- Qtz vein
 * Tointing

Scale
 1" = 12.5'
 0 12.5 25 1+00N



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P4N 7C3

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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Fields Canadian Mining Ltd.
467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W3441

SAMPLE(S) OF Rock

INVOICE #: 3363
P. O. :

C-PC-89-16

Butterfield Project

Au
ppb

6722	45
6723	15
6724	5
6725	120
6726	90
6727	220
6728	960
6729	450
6730	190
6731	20
6732	40
6733	540
6734	200
6735	770
6736	40
6737	20
6738	80
6739	95
6740	30
6741	25

Feed Zone

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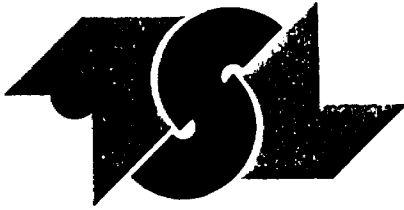
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Timmins, Ontario
P4N 7H9

REPORT No.
W3441

SAMPLE(S) OF Rock

INVOICE #: 3363
P.O. :

C-PC-89-16

Catherine Project

	Au ppb	
6742	40	<i>Seal Zone</i>
6743	30	
6744	10	
6745	25	
6746	10	
6747	20	<i>Seal Zone</i>
6748	50	
6749	10	
6750	10	
6800	10	
6801	10	<i>Seal Zone</i>
6802	45	
6803	75	
6804	45	
6805	180	
6806	110	<i>Seal Zone</i>
6807	30	
6808	50	
6809	30	
6810	20	

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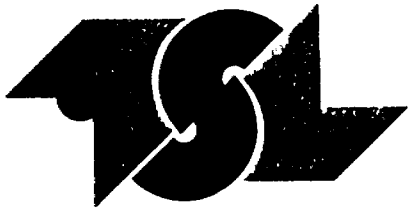
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P4N 7H9

REPORT No.
W3441

SAMPLE(S) OF Rock

INVOICE #: 3363
P.O.:

C-PC-89-16

Lathuille Project

Au
ppb

6811	70
6812	25
6813	50
6814	20
6815	90
6816	60
6817	70
6818	30
6819	190
6820	110
6821	85
6822	85
6823	25
6824	15
6825	40
6826	10
6827	480
6828	270
6829	55
6830	140

Seal zone

Road zone

C-8D-89-15

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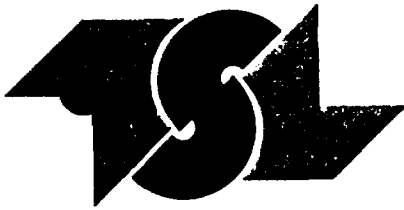
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P4N 7H9

REPORT No.
W3441

SAMPLE(S) OF Rock

INVOICE #: 3363
P.O.:

C-PC-89-16



Cathmine Project

	Au ppb
6831	200
6832	120
6833	35
6834	25
6835	25
6836	250
6837	60
6838	30
6839	90
6840	70
6841	20
6842	20
6843	45
6844	20
6845	60
6846	75
6847	55
6848	40
6849	70
6850	75

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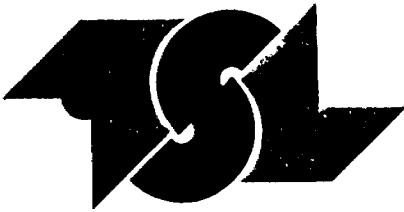
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Timmins, Ontario
P4N 7H9

REPORT No.
W3441

SAMPLE(S) OF Rock

INVOICE #: 3363
P.O.:

C-PC-89-16

Au
ppb

Catherine Rijct

6851	70
6852	40
6853	170
6854	20
6855	220
6856	20
6857	65
6858	45
6859	45
6860	40
6861	160
6862	120
6863	250
6864	25
6865	10
6866	65
6867	10 <i>Road Zone</i>
6868	180 <i>↓</i>
6869	70 <i>Road Zone Ext.</i>
6870	25

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Timmins, Ontario
P4N 7H9

REPORT No.
W3441

SAMPLE(S) OF Rock

INVOICE #: 3363
P.O.:

C-PC-89-16

Catharine Project

	Au ppb
6871	620
6872	55
6873	110
6874	100
6875	15
6876	10
6877	170
6878	170
6879	150
6880	35
6881	5
6882	5
6883	5
6884	5
6885	5
6886	5
6887	15
6888	5
6889	5
6890	5

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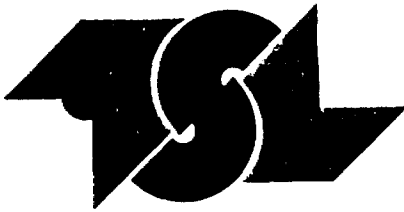
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Timmins, Ontario
P4N 7H9

REPORT No.
W3441

SAMPLE(S) OF Rock

INVOICE #: 3363
P.O.:

C-PC-89-16

Mathewie Project

Au
ppb

6891 5
6892 15
6893 5
6894 10
6895 15

6896 5
6897 10
6898 <5
6899 290
6900 25

6901 20
6902 120
6903 15
6904 20
6905 30

6906 110
6907 100
C-PC-89-15 { 6908 15
6909 20
6910 120

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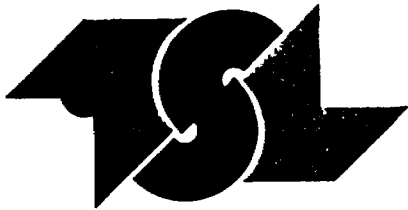
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467-C Preston Lane
P.O.Box 1150
Timmins, Ontario
P4N 7H9

REPORT No.
W3441

SAMPLE(S) OF Rock

INVOICE #: 3363
P.O.:

C-PC-89-16

Codmine Project

	Au ppb
6911	55
6912	20
6913	15
6914	15
6915	20
6916	15
6917	40
6918	20
6919	15
6951	400
6952	10
6953	10
6954	10
6955	70
6956	35
6957	460
6958	100
6959	30
6960	100
6961	10

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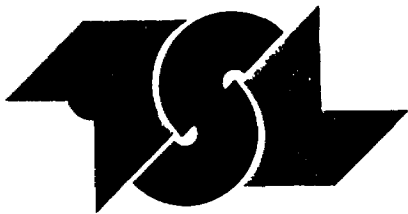
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Timmins, Ontario
P4N 7H9

REPORT No.
W3441

SAMPLE(S) OF Rock

INVOICE #: 3363
P. O. :

C-PC-89-16

Botswana Project

	Au ppb
6962	40
6963	60
6964	15
6965	310
6966	20
6967	10
6968	10
6969	10
6970	10
6971	70
6972	190
6973	15
6974	110
6975	20
6976	25
6977	75
6978	20
6979	20
6980	20
6981	260

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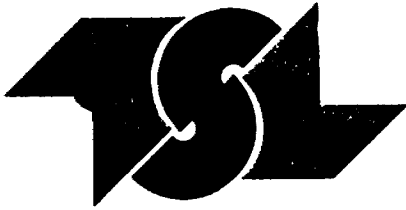
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Timmins, Ontario
P4N 7H9

REPORT No.
W3441

SAMPLE(S) OF Rock

INVOICE #: 3363
P. O. :

C-PC-89-16

Cathair Rejet

	Au ppb
6982	120
6983	30
6984	45
6985	20
6986	10
6987	10
6988	25
6989	10
6990	10
6991	240
6992	65
6993	15
6994	170
6995	20
6996	30
6997	80
6998	20
6999	30
7000	60

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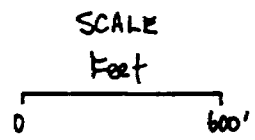
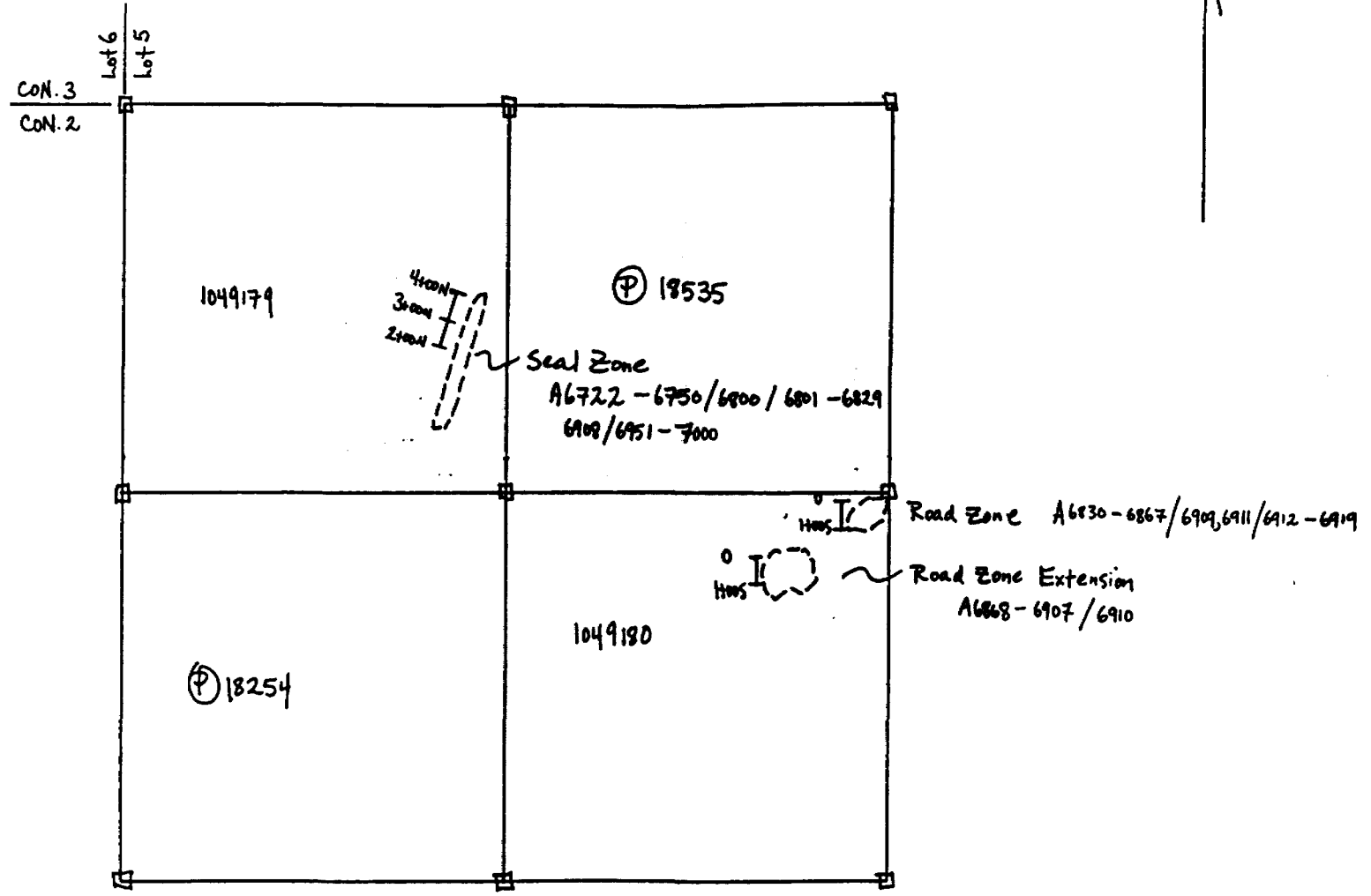
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CATHARINE TWP.

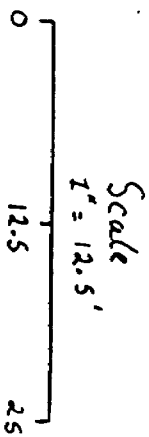
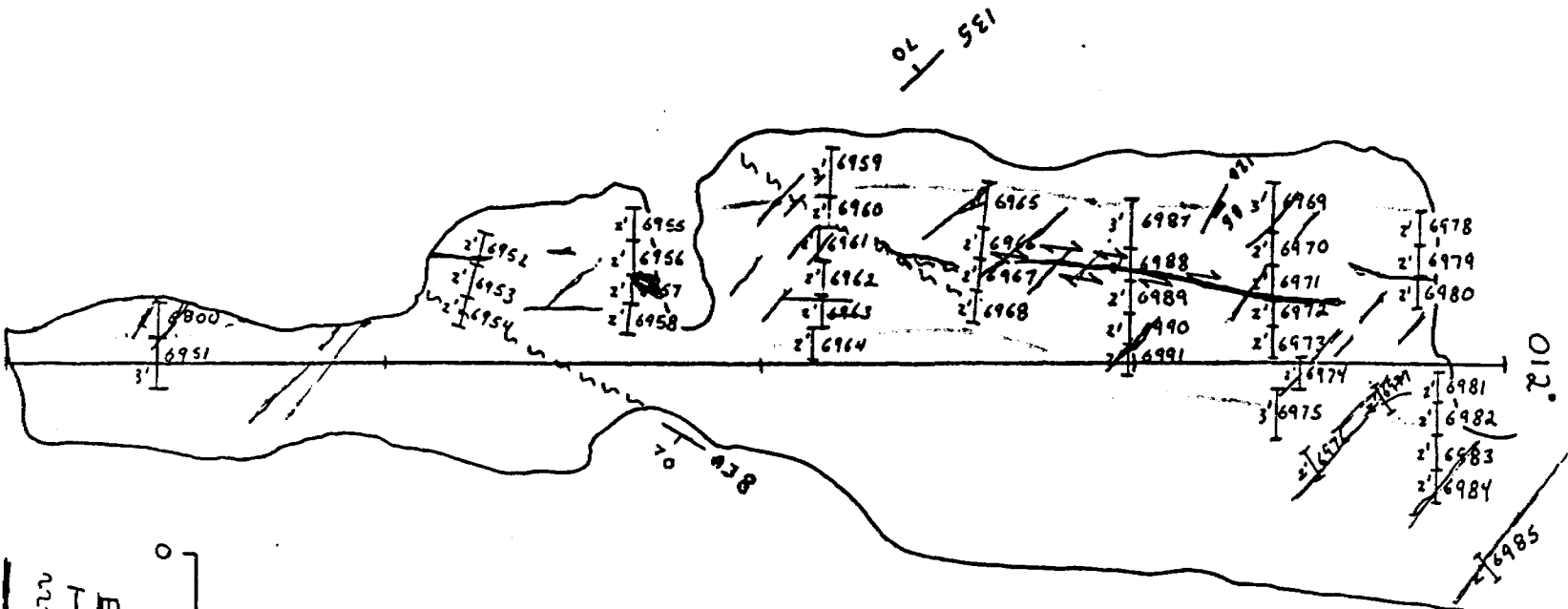
SAMPLE SHIPMENT C.P.C. 89.16



Seal Zone

Geology/Channel sampling

A 6800/A 6951-6985 / A 6987-6991



- Explanation
- Channel #/Length
 - Fault
 - Qz VN
 - Shear
 - Jointing
 - Zone of alteration

2+00N

2+25N

2+50N

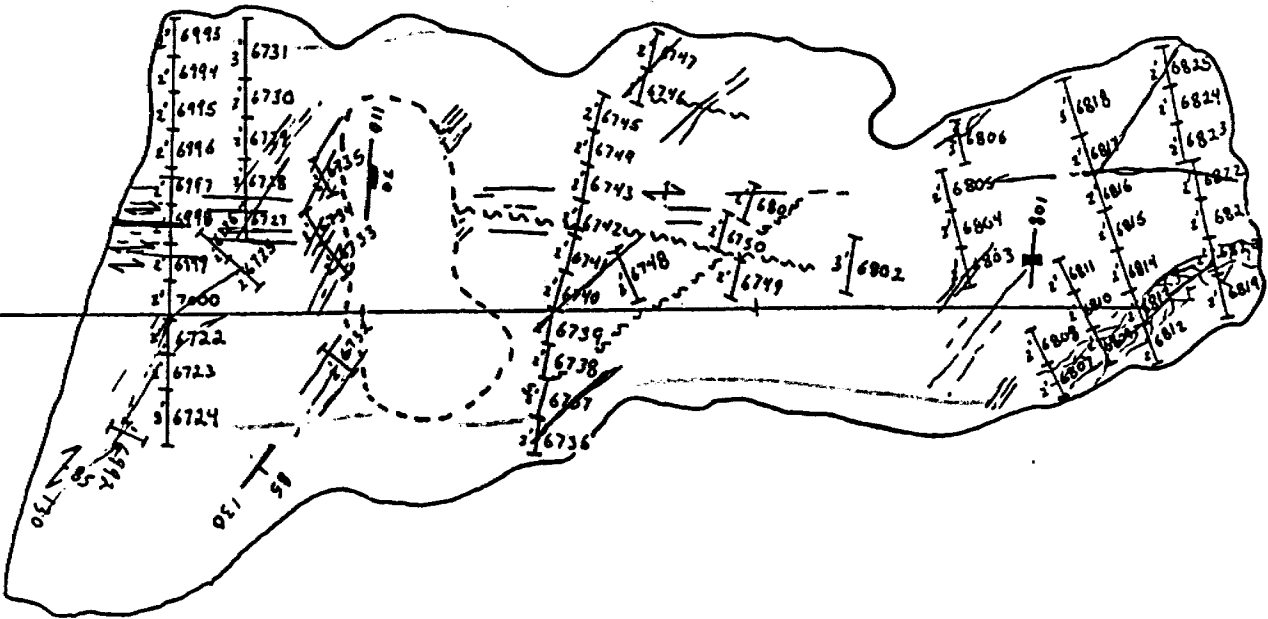
2+75N

3+00N

Seal Zone
Geology/Channel sampling



A 6986/A 6992 - 7000
A 6722-6750/A 6801-6826
4°12.5N



Explanation
 — Channel Sample #/length
 --- Fault
 - - - Qtz vein
 - - - Jointing
 - - - Shear
 --- Zone of alteration

Scale
1" = 12.5'
0 12.5 25



500M

3°25N

3°50N

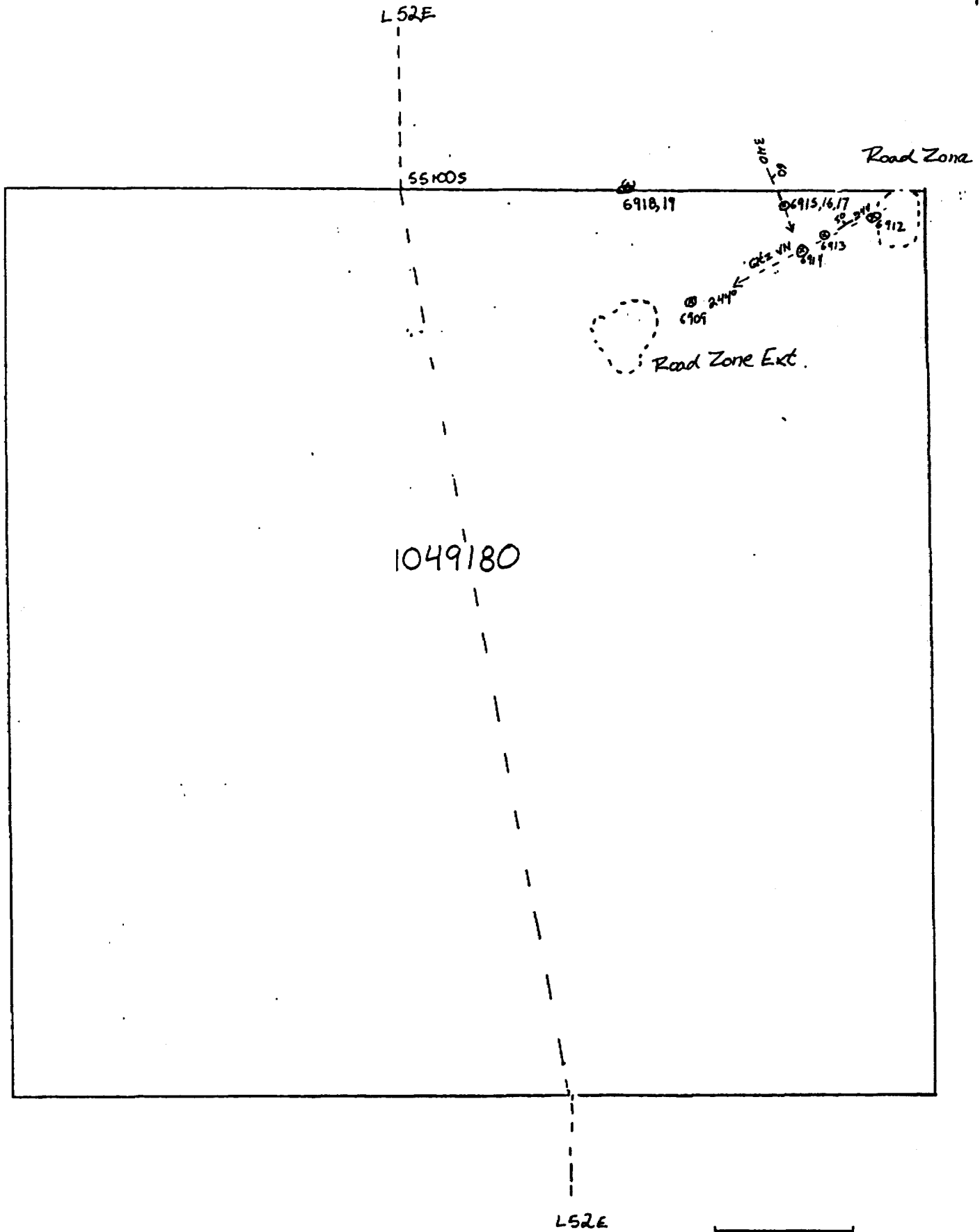
3°75N

4°00N

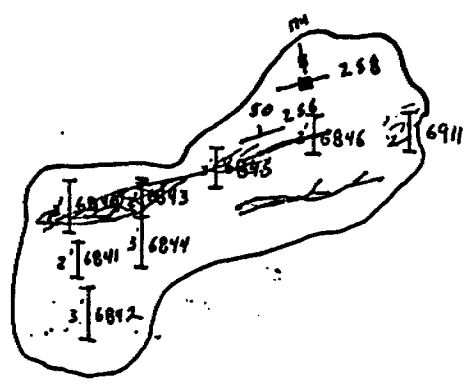
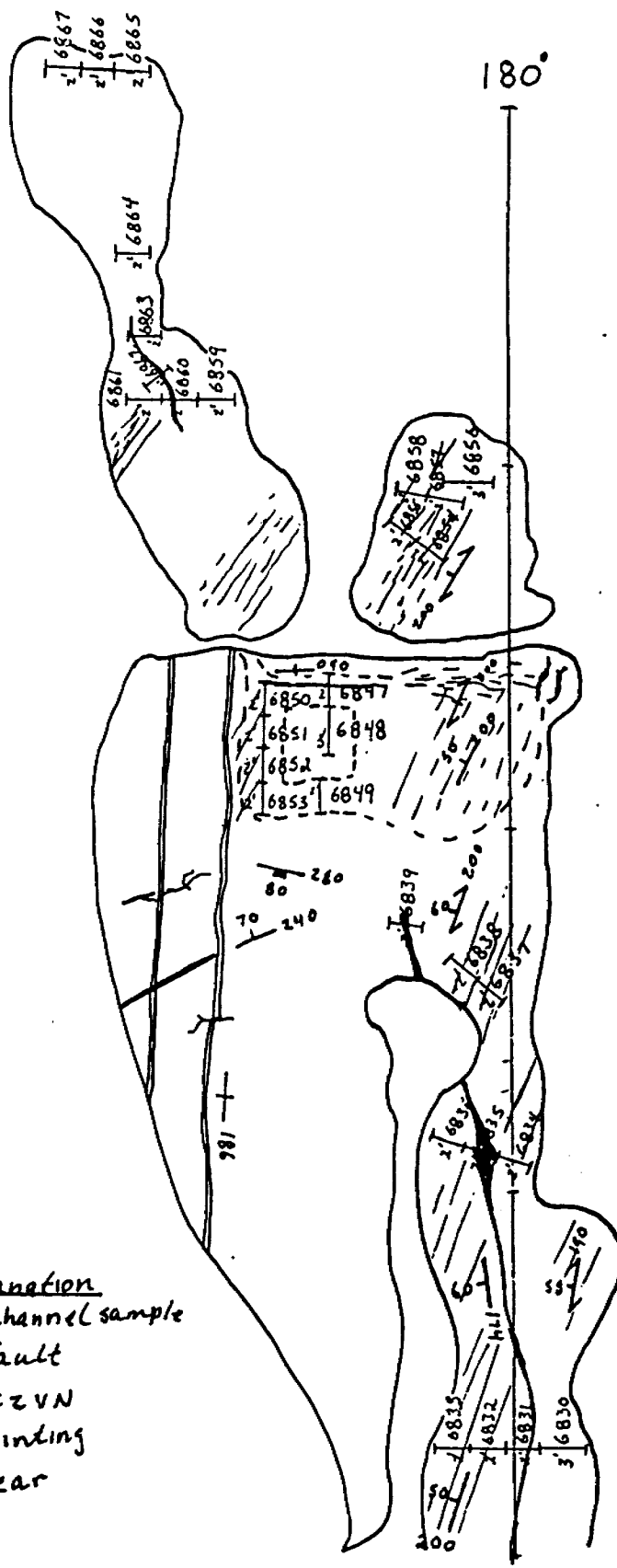
Catharine

A 6909, 6912-6919

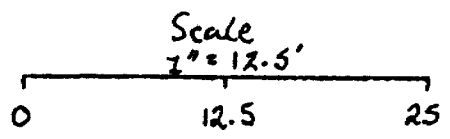
N
↑



Road Zone
 Geology / Channel Sampling
 A 6830-6867 / A 6911



- Explanation
- Channel sample
 - Fault
 - QtzVN
 - Jointing
 - ↗ Shear



1+00s
 0+75s
 0+50s
 0+25s
 0+00s

TECHNICAL SERVICE LABORATORIES

NEUTRON ACTIVATION ANALYSIS OUR REPORT: 1002 M5726

SAMPLES FROM: Gold Fields Canadian Mining Ltd.
 467-Preston Lane, P.O. Box 1150
 Timmins, Ontario
 P4N 7H9

SAMPLES of Humus
 Shipment No. C-BD-HUM-89-13

Sample description	AU PPB	Mass g
LO-0+00	4	8.000
LO-1+50 E	7	8.000
LO-2+00 E	4	8.000
LO-2+50 E	5	8.000
LO-3+00 E	4	8.000
LO-3+50 E	13	8.000
LO-4+00 E	5	8.000
LO-4+50 E	5	8.000
LO-5+00 E	4	8.000
LO-5+50 E	4	8.000
LO-6+00 E	2	8.000
LO-6+50 E	6	8.000
LO-7+00 E	6	8.000
L2N-1+00 W	4	8.000
L2N-0+50 W	4	8.000
L2N-00+00	7	8.000
L2N-00+50 E	5	8.000
L2N-1+00 E	9	8.000
L2N-1+50 E	4	8.000
L2N-2+00 E	7	8.000
L2N-2+50 E	3	8.000
L2N-3+00 E	3	8.000
L2N-3+50 E	5	8.000
L2N-4+00 E	5	8.000
L2N-4+50 E	3	8.000
L2N-5+00 E	4	8.000
L2N-5+50 E	4	8.000
L2N-6+00 E	3	8.000
L2N-6+50 E	5	8.000
L2N-7+00 E	9	8.000
L2N-7+50 E	7	8.000
L2N-8+00 E	4	8.000
L4N-2+50 W	8	8.000
L4N-2+00 W	4	8.000
L4N-1+50 W	5	8.000
L4N-1+00 W	5	8.000
L4N-00+50 W	4	8.000
L4N-00+00	3	8.000
L4N-00+50 E	6	8.000

RECEIVED
 MAR 24 1989

Catherine Lepert

While we believe this information to have been obtained in accordance with standard industry practices, we make no representation with respect to, nor do we assume any responsibility for the correctness thereof.

GOLD FIELDS CANADIAN MINING LIMITED

TECHNICAL SERVICE LABORATORIES

NEUTRON ACTIVATION ANALYSIS OUR REPORT: 1002 M5726

SAMPLES FROM: Gold Fields Canadian Mining Ltd. SAMPLES of Humus
 467-Preston Lane, P.O. Box 1150 Shipment No. C-BD-HUM-89-13
 Timmins, Ontario
 P4N 7H9

Sample description	AU PPB	Mass g
L4N-1+00 E	5	8.000
L4N-1+50 E	4	8.000
L4N-2+00 E	5	8.000
L4N-2+50 E	3	8.000
L4N-3+00 E	3	8.000
L4N-3+50 E	5	8.000
L4N-4+00 E	4	8.000
L4N-4+50 E	4	8.000
L4N-5+00 E	7	8.000
L4N-5+50 E	8	8.000
L4N-6+00 E	15	8.000
L4N-6+50 E	4	8.000
L4N-7+00 E	11	8.000
L6N-4+00 W	6	8.000
L6N-3+50 W	3	8.000
L6N-3+00 W	9	8.000
L6N-2+50 W	4	8.000
L6N-2+00 W	4	8.000
L6N-1+50 W	2	8.000
L6N-1+00 W	5	8.000
L6N-00+50 W	3	8.000
L6N-00+00	2	8.000
L6N-00+50 E	4	8.000
L6N-1+50 E	3	8.000
L6N-2+00 E	2	8.000
L6N-2+50 E	5	8.000
L6N-3+00 E	5	8.000
L6N-3+50 E	4	8.000
L6N-4+00 E	5	8.000
L6N-4+50 E	25	8.000
L6N-5+00 E	9	8.000
L6N-5+50 E	9	8.000
L6N-6+00 E	8	8.000
L6N-6+50 E	5	8.000
L6N-7+00 E	10	8.000
L8N-3+00 W	2	8.000
L8N-2+50 W	2	8.000
L8N-2+00 W	3	8.000
L8N-1+50 W	2	8.000

Catharine Property

While we believe this information to have been obtained in accordance with standard industry practices, we make no representation with respect to, nor do we assume any responsibility for the correctness thereof.

GOLD FIELDS CANADIAN MINING LIMITED

TECHNICAL SERVICE LABORATORIES

NEUTRON ACTIVATION ANALYSIS OUR REPORT: 1002 M5726

SAMPLES FROM: Gold Fields Canadian Mining Ltd. SAMPLES of Humus
 467-Preston Lane, P.O. Box 1150 Shipment No. C-BD-HUM-89-13
 Timmins, Ontario
 P4N 7H9

Sample description	AU PPB	Mass g
L8N-1+00 W	2	8.000
L8N-00+50 W	2	8.000
L8N-00+00	8	8.000
L8N-00+50 E	3	8.000
L8N-1+00 E	2	8.000
L8N-1+50 E	3	8.000
L8N-2+00 E	2	8.000
L8N-2+50 E	7	8.000
L8N-3+00 E	3	8.000
L8N-3+50 E	6	8.000
L8N-4+00 E	2	8.000
L8N-4+50 E	2	8.000
L8N-5+00 E	2	8.000
L8N-5+50 E	5	8.000
L8N-5+00 E	3	8.000
L8N-6+50 E	2	8.000
L8N-7+00 E	4	8.000
L10N-2+50 W	3	8.000
L10N-2+00 W	2	8.000
L10N-1+50 W	2	8.000
L10N-1+00 W	2	8.000
L10N-00+50 W	2	8.000
L10N-00+00	2	8.000
L10N-00+50 E	2	8.000
L10N-1+00 E	3	8.000
L10N-1+50 E	4	8.000
L10N-2+00 E	4	8.000
L10N-2+50 E	2	8.000
L10N-3+00 E	1	8.000
L10N-3+50 E	1	8.000
L10N-4+00 E	1	8.000
L10N-4+50 E	2	8.000
L10N-5+00 E	4	8.000
L10N-5+50 E	2	8.000
L10N-6+00 E	3	8.000
L10N-6+50 E	1	8.000
L10N-7+00 E	2	8.000
L12N-3+00 E	6	8.000
L12N-2+50 W	<1	8.000

Entraine Property

While we believe this information to have been obtained in accordance with standard industry practices, we make no representation with respect to, nor do we assume any responsibility for the correctness thereof.

GOLD FIELDS CANADIAN MINING LIMITED

TECHNICAL SERVICE LABORATORIES

NEUTRON ACTIVATION ANALYSIS OUR REPORT: 1002 M5726

SAMPLES FROM: Gold Fields Canadian Mining Ltd. SAMPLES of Humus
 467-Preston Lane, P.O. Box 1150 Shipment No. C-BD-HUM-89-13
 Timmins, Ontario
 P4N 7H9

Sample description	AU PPB	Mass g

L12N-2+00 W	2	8.000
L12N-1+50 W	2	8.000
L12N-1+00 W	<1	8.000
L12N 00+50 W	2	8.000
L12N 00+00	3	8.000
L12N 00+50 E	1	8.000
L12N 1+00 E	1	8.000
L12N 1+50 E	2	8.000
L12N 2+00 E	2	8.000
L12N 2+50 E	3	8.000
L12N 3+00 E	1	8.000
L12N 3+50 E	2	8.000
L12N 4+00 E	2	8.000
L12N 4+50 E	3	8.000
L12N 5+00 E	7	8.000
L12N 5+50 E	2	8.000
L12N 6+00 E	3	8.000
L12N 6+50 E	13	8.000
L12N 7+00 E	2	8.000
L14N 3+00 E	4	8.000
L14N 2+50 W	9	8.000
L14N 2+00 W	4	8.000
L14N 1+50 W	12	8.000
L14N 1+00 W	11	8.000
L14N 00+50 W	9	8.000
L14N 00+00	5	8.000
L14N 00+50 E	4	8.000
L14N 1+00 E	3	8.000
L14N 1+50 E	6	8.000
L14N 2+00 E	8	8.000
L14N 2+50 E	12	8.000
L14N 3+00 E	3	8.000
L14N 3+50 E	7	8.000
L14N 4+00 E	3	8.000
L14N 4+50 E	3	8.000
L14N 5+00 E	9	8.000
L14N 5+50 E	6	8.000
L14N 6+00 E	8	8.000
L14N 6+50 E	1	8.000

Catherine Property

TECHNICAL SERVICE LABORATORIES
 NEUTRON ACTIVATION ANALYSIS OUR REPORT: 1002 M5726

SAMPLES FROM: Gold Fields Canadian Mining Ltd. SAMPLES of Humus
 467-Preston Lane, P.O. Box 1150 Shipment No. C-BD-HUM-89-13
 Timmins, Ontario
 P4N 7H9

Sample description	AU PPB	Mass g
L14N 7+00 E	5	8.000
L16N 2+50 W	10	8.000
L16N 2+00 W	5	8.000
L16N 1+50 W	6	8.000
L16N 1+00 W	8	8.000
L16N 00+50 W	4	8.000
L16N 00+00	10	8.000
L16N 00+50 E	6	8.000
L16N 1+00 E	11	8.000
L16N 1+50 E	7	8.000
L16N 2+00 E	18	8.000
L16N 2+50 E	16	8.000
L16N 3+00 E	13	8.000
L16N 3+50 E	2	8.000
L16N 4+00 E	2	8.000
L16N 4+50 E	4	8.000
L16N 5+00 E	3	8.000
L16N 5+50 E	4	8.000
L16N 6+00 E	2	8.000
L16N 6+50 E	4	8.000
L16N 7+00 E	6	8.000
L18N 00+50 W	11	8.000
L18N 00+00	10	8.000
L18N 00+50 E	9	8.000
L18N 1+00 E	12	8.000
L18N 1+50 E	2	8.000
L18N 2+00 E	3	8.000
L18N 2+50 E	11	8.000
L18N 3+00 E	4	8.000
L18N 3+50 E	5	8.000
L18N 4+00 E	7	8.000
L18N 4+50 E	16	8.000
L18N 5+00 E	15	8.000
L18N 5+50 E	6	8.000

Catherine Murphy

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GOLD FIELDS CANADIAN MINING LIMITED

TECHNICAL SERVICE LABORATORIES

NEUTRON ACTIVATION ANALYSIS OUR REPORT: 1002 M5726

SAMPLES FROM: Gold Fields Canadian Mining Ltd. SAMPLES of Humus
467-Preston Lane, P.O. Box 1150 Shipment No. C-BD-HUM-89-13
Timmins, Ontario
P4N 7H9

Sample description	AU PPB	Mass g
L18N 6+00 E	12	8.000
L18N 6+50 E	10	8.000
L18N 7+00 E	16	8.000

Catherine Property


While we believe this information to have been obtained in accordance with standard industry practices, we make no representation with respect to, nor do we assume any responsibility for the correctness thereof.
GOLD FIELDS CANADIAN MINING LIMITED

TECHNICAL SERVICE LABORATORIES
 NEUTRON ACTIVATION ANALYSIS OUR REPORT: 1015 M5729

SAMPLES FROM: Gold Fields Canadian Mining Ltd.
 467-Preston Lane, P.O. Box 1150
 Timmins, Ontario
 P4N 7H9

SAMPLES of HUMUS
 SHIP # C-BD-HUM-89-13

Sample description	AU PPB	Mass g
L14S 7+00 W	9	8.000
L14S 6+50 W	11	8.000
L14S 6+00 W	13	8.000
L14S 5+50 W	11	8.000
L14S 5+00 W	9	8.000
L14S 4+50 W	10	8.000
L14S 4+00 W	4	8.000
L14S 3+50 W	2	8.000
L14S 3+00 W	7	8.000
L14S 2+50 W	8	8.000
L14S 2+00 W	8	8.000
L14S 1+50 W	6	8.000
L14S 1+00 W	11	8.000
L14S 0+50 W	9	8.000
L14S 0+00	9	8.000
L14S 0+50 E	13	8.000
L14S 1+00 E	11	8.000
L14S 1+50 E	13	8.000
L14S 2+00 E	19	8.000
L14S 2+50 E	13	8.000
L14S 3+00 E	10	8.000
L14S 3+50 E	7	8.000
L14S 4+00 E	6	8.000
L16S 7+00 W	7	8.000
L16S 6+50 W	8	8.000
L16S 6+00 W	9	8.000
L16S 5+50 W	5	8.000
L16S 5+00 W	7	8.000
L16S 4+50 W	9	8.000
L16S 4+00 W	2	8.000
L16S 3+50 W	2	8.000
L16S 3+00 W	8	8.000
L16S 2+50 W	7	8.000
L16S 2+00 W	9	8.000
L16S 1+50 W	9	8.000
L16S 1+00 W	11	8.000
L16S 0+50 W	10	8.000
L16S 0+00	13	8.000
L16S 0+50 E	6	8.000

Continued Project


While we believe this information to have been obtained in accordance with standard industry practices, we make no representation with respect to, and do not assume any responsibility for the correctness thereof.
 GOLD FIELDS CANADIAN MINING LIMITED

TECHNICAL SERVICE LABORATORIES

NEUTRON ACTIVATION ANALYSIS OUR REPORT: 1015 M5729

SAMPLES FROM: Gold Fields Canadian Mining Ltd.
 467-Preston Lane, P.O. Box 1150
 Timmins, Ontario
 P4N 7H9

SAMPLES of HUMUS
 SHIP # C-BD-HUM-89-13

Sample description	AU PPB	Mass g
L16S 1+00 E	13	8.000
L16S 1+50 E	6	8.000
L16S 2+00 E	9	8.000
L16S 2+50 E	13	8.000
L16S 3+00 E	155	8.000
L16S 3+50 E	8	8.000
L16S 4+00 E	4	8.000
L18S 7+00 W	10	8.000
L18S 6+50 W	9	8.000
L18S 6+00 W	10	8.000
L18S 5+50 W	3	8.000
L18S 5+00 W	5	8.000
L18S 4+50 W	4	8.000
L18S 4+00 W	5	8.000
L18S 3+50 W	1	8.000
L18S 3+00 W	2	8.000
L18S 2+00 W	3	8.000
L18S 1+50 W	8	8.000
L18S 1+00 W	3	8.000
L18S 0+50 W	7	8.000
L18S 0+00	18	8.000
L18S 0+50 E	6	8.000
L18S 1+00 E	5	8.000
L18S 1+50 E	8	8.000
L18S 2+00 E	10	8.000
L18S 2+50 E	7	8.000
L18S 3+00 E	5	8.000
L18S 3+50 E	9	8.000
L18S 4+00 E	3	8.000
L20S 5+50 W	3	8.000
L20S 5+00 W	4	8.000
L20S 4+50 W	6	8.000
L20S 4+00 W	6	8.000
L20S 3+50 W	11	8.000
L20S 2+50 W	4	8.000
L20S 2+00 W	2	8.000
L20S 1+50 W	5	8.000
L20S 1+00 W	8	8.000
L20S 0+50 W	7	8.000

Catherine Rejz

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GOLD FIELDS CANADIAN MINING LIMITED

TECHNICAL SERVICE LABORATORIES


NEUTRON ACTIVATION ANALYSIS OUR REPORT: 1015 M5729

SAMPLES FROM: Gold Fields Canadian Mining Ltd.
 467-Preston Lane, P.O. Box 1150
 Timmins, Ontario
 P4N 7H9

SAMPLES of HUMUS
 SHIP # C-BD-HUM-89-13

Sample description	AU PPB	Mass g
L20S 0+00	3	8.000
L20S 0+50 E	20	8.000
L20S 1+00 E	6	8.000
L20S 1+50 E	4	8.000
L20S 2+00 E	7	8.000
L20S 2+50 E	5	8.000
L20S 3+00 E	2	8.000
L20S 3+50 E	2	8.000
L20S 4+00 E	3	8.000
L36N 3+00 W	<1	8.000
L36N 2+50 W	<1	8.000
L36N 2+00 W	<1	8.000
L36N 1+50 W	<1	8.000
L36N 1+00 W	1	8.000
L36N 0+50 W	2	8.000
L36N 0+00	1	8.000
L36N 0+50 E	1	8.000
L36N 1+00 E	<1	8.000
L36N 1+50 E	2	8.000
L36N 2+00 E	3	8.000
L36N 3+00 E	1	8.000
L36N 3+50 E	<1	8.000
L36N 4+00 E	<1	8.000
L36N 4+50 E	<1	8.000
L36N 5+00 E	<1	8.000
L36N 5+50 E	<1	8.000
L36N 6+00 E	<1	8.000
L36N 6+50 E	<1	8.000
L36N 7+00 E	<1	8.000
L38N 3+00 W	<1	8.000
L38N 2+50 W	<1	8.000
L38N 2+00 W	1	8.000
L38N 1+50 W	<1	8.000
L38N 1+00 W	1	8.000
L38N 0+50 W	<1	8.000
L38N 0+00	1	8.000
L38N 0+50 E	<1	8.000
L38N 1+00 E	<1	8.000
L38N 1+50 E	<1	8.000

Background Project



While we believe this information to have been obtained in accordance with standard industry practices, we make no representation with respect to, nor do we assume any responsibility for the correctness thereof.
GOLD FIELDS CANADIAN MINING LIMITED

TECHNICAL SERVICE LABORATORIES

NEUTRON ACTIVATION ANALYSIS OUR REPORT: 1015

M5729

SAMPLES FROM: Gold Fields Canadian Mining Ltd.
467-Preston Lane, P.O. Box 1150
Timmins, Ontario
P4N 7H9

SAMPLES of HUMUS
SHIP # C-BD-HUM-89-13

Sample description	AU PPB	Mass g
L38N 2+00 E	<1	8.000
L38N 2+50 E	<1	8.000
L38N 3+00 E	<1	8.000
L38N 3+50 E	<1	8.000
L38N 4+00 E	<1	8.000
L38N 4+50 E	<1	8.000
L38N 5+00 E	<1	8.000
L38N 5+50 E	<1	8.000
L38N 6+00 E	<1	8.000
L38N 6+50 E	<1	8.000
L38N 7+00 E	<1	8.000
BL 20+00 E	3	8.000
BL 20+50 E	5	8.000
BL 21+00 E	4	8.000
BL 21+50 E	2	8.000
BL 22+00 E	5	8.000
BL 22+50 E	4	8.000
BL 23+00 E	4	8.000
BL 23+50 E	4	8.000
BL 24+00 E	7	8.000
BL 24+50 E	5	8.000
BL 25+00 E	5	8.000

Baseline Project
UD

While we believe this information to have been obtained in accordance with standard industry practices, we make no representation with respect to, nor do we assume any responsibility for the correctness thereof.
GOLD FIELDS CANADIAN MINING LIMITED

TECHNICAL SERVICE LABORATORIES

NEUTRON ACTIVATION ANALYSIS OUR REPORT: 1011 M5727

SAMPLES FROM: Gold Fields Canadian Mining Ltd.
 467-Preston Lane, P.O. Box 1150
 Timmins, Ontario
 P4N 7H9

SAMPLES of HUMUS
 SHIP # C-BD-HUM-89-13

Sample description	AU PPB	Mass g
L20N 0+00	7	8.000
L20N 0+50 E	7	8.000
L20N 1+00 E	16	8.000
L20N 1+50 E	13	8.000
L20N 2+00 E	10	8.000
L20N 2+50 E	11	8.000
L20N 3+00 E	9	8.000
L20N 3+50 E	4	8.000
L20N 4+00 E	4	8.000
L20N 4+50 E	9	8.000
L20N 5+00 E	14	8.000
L20N 5+50 E	7	8.000
L20N 6+00 E	9	8.000
L20N 6+50 E	7	8.000
L20N 7+00 E	5	8.000
L22N 2+00 E	3	8.000
L22N 2+50 E	6	8.000
L22N 3+00 E	3	8.000
L22N 3+50 E	9	8.000
L22N 4+00 E	5	8.000
L22N 4+50 E	3	8.000
L22N 5+00 E	2	8.000
L22N 5+50 E	3	8.000
L22N 6+00 E	6	8.000
L22N 6+50 E	2	8.000
L22N 7+00 E	6	8.000
L24N 0+00	6	8.000
L24N 0+50 E	11	8.000
L24N 1+00 E	8	8.000
L24N 1+50 E	9	8.000
L24N 2+00 E	2	8.000
L24N 2+50 E	4	8.000
L24N 3+00 E	12	8.000
L24N 3+50 E	3	8.000
L24N 4+00 E	4	8.000
L24N 4+50 E	13	8.000
L24N 5+00 E	6	8.000
L24N 5+50 E	11	8.000
L24N 6+00 E	3	8.000

Catharine Sneyd

While we believe this information to have been obtained in accordance with
 standard industry practices, we make no representation with respect to, nor do we
 assume any responsibility for the correctness thereof.
GOLD FIELDS CANADIAN MINING LIMITED

TECHNICAL SERVICE LABORATORIES

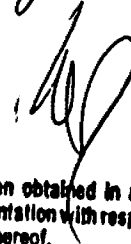
NEUTRON ACTIVATION ANALYSIS OUR REPORT: 1011 M5727

SAMPLES FROM: Gold Fields Canadian Mining Ltd.
 467-Preston Lane, P.O. Box 1150
 Timmins, Ontario
 P4N 7H9

SAMPLES of HUMUS
 SHIP # C-BD-HUM-89-13

Sample description	AU PPB	Mass g
L28N 5+50 E	2	8.000
L28N 6+00 E	2	8.000
L28N 6+50 E	3	8.000
L28N 7+00 E	5	8.000
L30N 3+00 W	1	8.000
L30N 2+50 W	6	8.000
L30N 2+00 W	4	8.000
L30N 1+50 W	2	8.000
L30N 1+00 W	2	8.000
L30N 0+50 W	2	8.000
L30N 0+50 E	1	8.000
L30N 1+00 E	1	8.000
L30N 1+50 E	6	8.000
L30N 2+00 E	3	8.000
L30N 2+50 E	3	8.000
L30N 3+00 E	3	8.000
L30N 3+50 E	2	8.000
L30N 4+00 E	2	8.000
L30N 4+50 E	4	8.000
L30N 5+00 E	5	8.000
L30N 5+50 E	3	8.000
L30N 6+00 E	4	8.000
L30N 6+50 E	5	8.000
L32N 7+00 E	6	8.000
L32N 3+00 W	2	8.000
L32N 2+50 W	2	8.000
L32N 2+00 W	2	8.000
L32N 1+50 W	3	8.000
L32N 0+50 W	2	8.000
L32N 0+00	8	8.000
L32N 0+50 E	7	8.000
L32N 1+00 E	8	8.000
L32N 1+50 E	9	8.000
L32N 3+00 E	2	8.000
L32N 3+50 E	7	8.000
L32N 4+00 E	7	8.000
L32N 4+50 E	8	8.000
L32N 5+00 E	4	8.000
L32N 5+50 E	5	8.000

Catherine Rejz



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GOLD FIELDS CANADIAN MINING LIMITED

TECHNICAL SERVICE LABORATORIES

NEUTRON ACTIVATION ANALYSIS OUR REPORT: 1011 M5727

SAMPLES FROM: Gold Fields Canadian Mining Ltd.
 467-Preston Lane, P.O. Box 1150
 Timmins, Ontario
 P4N 7H9

SAMPLES of HUMUS
 SHIP # C-BD-HUM-89-13

Sample description	AU PPB	Mass g
L24N 6+50 E	6	8.000
L24N 7+00 E	6	8.000
L26N 3+00 W	11	8.000
L26N 2+50 W	19	8.000
L26N 2+00 W	4	8.000
L26N 1+50 W	15	8.000
L26N 1+00 W	16	8.000
L26N 0+50 W	12	8.000
L26N 0+00	9	8.000
L26N 0+50 E	12	8.000
L26N 1+00 E	11	8.000
L26N 1+50 E	3	8.000
L26N 2+00 E	17	8.000
L26N 2+50 E	10	8.000
L26N 3+00 E	3	8.000
L26N 3+50 E	3	8.000
L26N 4+00 E	3	8.000
L26N 4+50 E	8	8.000
L26N 5+00 E	10	8.000
L26N 5+50 E	9	8.000
L26N 6+00 E	11	8.000
L26N 6+50 E	12	8.000
L26N 7+00 E	4	8.000
L28N 3+00 W	2	8.000
L28N 2+50 W	3	8.000
L28N 2+00 W	4	8.000
L28N 1+50 W	2	8.000
L28N 1+00 W	8	8.000
L28N 0+50 W	4	8.000
L28N 0+00	4	8.000
L28N 0+50 E	1	8.000
L28N 1+00 E	5	8.000
L28N 1+50 E	2	8.000
L28N 2+00 E	4	8.000
L28N 2+50 E	2	8.000
L28N 3+00 E	1	8.000
L28N 3+50 E	1	8.000
L28N 4+00 E	1	8.000
L28N 5+00 E	2	8.000

Catharine Rejcek



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GOLD FIELDS CANADIAN MINING LIMITED

TECHNICAL SERVICE LABORATORIES

NEUTRON ACTIVATION ANALYSIS OUR REPORT: 1011

M5727

SAMPLES FROM: Gold Fields Canadian Mining Ltd.
467-Preston Lane, P.O. Box 1150
Timmins, Ontario
P4N 7H9

SAMPLES of HUMUS
SHIP # C-BD-HUM-89-13

Sample description	AU PPB	Mass g
L32N 6+00 E	9	8.000
L32N 6+50 E	22	8.000
L32N 7+00 E	9	8.000
L34N 3+00 W	6	8.000
L34N 2+50 W	24	8.000
L34N 2+00 W	2	8.000
L34N 1+50 W	10	8.000
L34N 1+00 W	14	8.000
L34N 0+50 W	20	8.000
L34N 0+00	11	8.000
L34N 0+50 E	15	8.000
L34N 1+00 E	21	8.000
L34N 1+50 E	16	8.000
L34N 3+50 E	8	8.000
L34N 3+50 E	5	8.000
L34N 4+00 E	8	8.000
L34N 4+50 E	18	8.000
L34N 5+00 E	8	8.000
L34N 5+50 E	18	8.000
L34N 6+00 E	15	8.000
L34N 6+50 E	15	8.000
L34N 7+00 E	23	8.000
L36N 3+00 W	10	8.000
L36N 2+50 W	10	8.000
L36N 2+00 W	13	8.000
L36N 1+50 W	14	8.000
L36N 1+00 W	20	8.000
L36N 0+50 W	8	8.000
L36N 0+00	3	8.000
L36N 0+50 E	5	8.000
L36N 1+00 E	8	8.000
L36N 1+50 E	11	8.000
L36N 2+00 E	14	8.000
L36N 2+50 E	15	8.000
L36N 3+00 E	8	8.000
L36N 3+50 E	2	8.000
L36N 4+00 E	4	8.000
L36N 4+50 E	4	8.000
L36N 5+00 E	12	8.000

Catherine Doyce
[Signature]

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GOLD FIELDS CANADIAN MINING LIMITED


TECHNICAL SERVICE LABORATORIES

NEUTRON ACTIVATION ANALYSIS OUR REPORT: 1011 M5727

SAMPLES FROM: Gold Fields Canadian Mining Ltd.
467-Preston Lane, P.O. Box 1150
Timmins, Ontario
P4N 7H9

SAMPLES of HUMUS
SHIP # C-BD-HUM-89-13

Sample description	AU PPB	Mass g
L36N 5+50 E	13	8.000
L36N 6+00 E	5	8.000
L36N 6+50 E	16	8.000
L36N 7+00 E	5	8.000
L38N 3+00 W	13	8.000
L38N 2+50 W	10	8.000
L38N 2+00 W	15	8.000
L38N 1+50 W	5	8.000
L38N 1+00 W	8	8.000
L38N 0+50 W	17	8.000
L38N 0+00	16	8.000
L38N 0+50 E	9	8.000
L38N 1+00 E	16	8.000
L38N 1+50 E	12	8.000
L38N 2+00 E	12	8.000
L38N 2+50 E	3	8.000
L38N 3+00 E	2	8.000
L38N 3+50 E	2	8.000
L38N 4+00 E	7	8.000
L38N 4+50 E	12	8.000
L38N 5+00 E	14	8.000
L38N 5+50 E	9	8.000
L38N 6+00 E	7	8.000
L38N 6+50 E	9	8.000
L38N 7+00 E	34	8.000
L40N 3+00 W	12	8.000
L40N 2+50 W	3	8.000
L40N 2+00 W	5	8.000
L40N 1+50 W	7	8.000
L40N 1+00 W	4	8.000
L40N 0+50 W	14	8.000
L40N 0+00	35	8.000
L40N 0+50 E	8	8.000
L40N 1+00 E	2	8.000
L40N 1+50 E	1	8.000
L40N 2+00 E	2	8.000
L40N 2+50 E	4	8.000
L40N 3+00 E	4	8.000
L40N 3+50 E	2	8.000

Carbure Project


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GOLD FIELDS CANADIAN MINING LIMITED

TECHNICAL SERVICE LABORATORIES

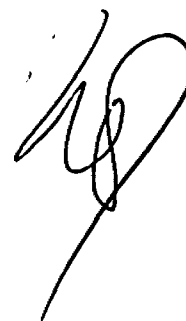
NEUTRON ACTIVATION ANALYSIS OUR REPORT: 1011 M5727

SAMPLES FROM: Gold Fields Canadian Mining Ltd.
467-Preston Lane, P.O. Box 1150
Timmins, Ontario
P4N 7H9

SAMPLES of HUMUS
SHIP # C-BD-HUM-89-13

Sample description	AU PPB	Mass g
L40N 4+00 E	4	8.000
L40N 4+50 E	4	8.000
L40N 5+00 E	3	8.000
L40N 5+50 E	6	8.000
L40N 6+00 E	5	8.000

Catherine Rajet



TECHNICAL SERVICE LABORATORIES

NEUTRON ACTIVATION ANALYSIS OUR REPORT: 1014 M5728

SAMPLES FROM: Gold Fields Canadian Mining Ltd.
 467-Preston Lane, P.O. Box 1150
 Timmins, Ontario
 P4N 7H9

SAMPLES of HUMUS
 SHIP # C-BD-HUM-89-13

Sample description	AU PPB	Mass g
L40N 6+50 E	5	8.000
L40N 7+00 E	12	8.000
L42N 3+00 W	5	8.000
L42N 2+50 W	6	8.000
L42N 2+00 W	11	8.000
L42N 1+50 W	3	8.000
L42N 1+00 W	3	8.000
L42N 0+50 W	4	8.000
L42N 0+00	6	8.000
L42N 0+50 E	2	8.000
L42N 1+00 E	11	8.000
L42N 1+50 E	7	8.000
L42N 2+00 E	5	8.000
L42N 2+50 E	2	8.000
L42N 3+00 E	6	8.000
L42N 3+50 E	6	8.000
L42N 4+00 E	5	8.000
L42N 4+50 E	2	8.000
L42N 5+00 E	11	8.000
L42N 5+50 E	6	8.000
L42N 6+00 E	9	8.000
L42N 6+50 E	10	8.000
L42N 7+00 E	23	8.000
L44N 3+00 W	13	8.000
L44N 2+50 W	9	8.000
L44N 2+00 W	18	8.000
L44N 1+50 W	2	8.000
L44N 1+00 W	6	8.000
L44N 0+50 W	22	8.000
L44N 0+00	5	8.000
L44N 0+50 E	3	8.000
L44N 1+00 E	2	8.000
L44N 1+50 E	6	8.000
L44N 2+00 E	3	8.000
L44N 2+50 E	<1	8.000
L44N 3+00 E	2	8.000
L44N 3+50 E	2	8.000
L44N 4+00 E	3	8.000
L44N 4+50 E	5	8.000

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 AUG 07 1989
REGISTRY

Guaranteed Report

[Signature]

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 standard industry practices, we make no representation with respect to, nor do we
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GOLD FIELDS CANADIAN MINING LIMITED

TECHNICAL SERVICE LABORATORIES
 NEUTRON ACTIVATION ANALYSIS OUR REPORT: 1014 M5728

SAMPLES FROM: Gold Fields Canadian Mining Ltd.
 467-Preston Lane, P.O. Box 1150
 Timmins, Ontario
 P4N 7H9

SAMPLES of HUMUS
 SHIP # C-BD-HUM-89-13

Sample description	AU PPB	Mass g
L44N 5+00 E	10	8.000
L44N 5+50 E	4	8.000
L44N 6+00 E	5	8.000
L44N 6+50 E	7	8.000
L44N 7+00 E	3	8.000
L46N 3+00 W	17	8.000
L46N 2+50 W	24	8.000
L46N 2+00 W	6	8.000
L46N 1+50 W	5	8.000
L46N 1+00 W	10	8.000
L46N 0+50 W	7	8.000
L46N 0+00	5	8.000
L46N 0+50 E	8	8.000
L46N 1+00 E	12	8.000
L46N 1+50 E	4	8.000
L46N 2+00 E	3	8.000
L46N 2+50 E	4	8.000
L46N 3+00 E	3	8.000
L46N 3+50 E	8	8.000
L46N 4+00 E	3	8.000
L46N 4+50 E	2	8.000
L46N 5+00 E	9	8.000
L46N 5+50 E	4	8.000
L46N 6+00 E	3	8.000
L46N 6+50 E	13	8.000
L46N 7+00 E	12	8.000
L48N 3+00 W	7	8.000
L48N 2+50 W	2	8.000
L48N 2+00 W	2	8.000
L48N 1+50 W	6	8.000
L48N 0+50 W	2	8.000
L48N 0+50 W	8	8.000
L48N 0+00	5	8.000
L48N 0+50 E	4	8.000
L48N 1+00 E	7	8.000
L48N 1+50 E	23	8.000
L48N 2+00 E	10	8.000
L48N 2+50 E	13	8.000
L48N 3+00 E	2	8.000

Catherine Royet



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GOLD FIELDS CANADIAN MINING LIMITED

TECHNICAL SERVICE LABORATORIES

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SAMPLES FROM: Gold Fields Canadian Mining Ltd.
467-Preston Lane, P.O. Box 1150
Timmins, Ontario
P4N 7H9

SAMPLES of HUMUS
SHIP # C-BD-HUM-89-13

Sample description	AU PPB	Mass g
L50N 3+00 W	2	8.000
L50N 2+50 W	8	8.000
L50N 2+00 W	6	8.000
L50N 1+50 W	11	8.000
L50N 1+00 W	6	8.000
L50N 0+50 W	10	8.000
L50N 0+00	13	8.000
L50N 0+50 E	7	8.000
L50N 1+00 E	11	8.000
L50N 1+50 E	14	8.000
L50N 2+00 E	9	8.000
L50N 2+50 E	8	8.000
L25 2+00 W	4	8.000
L25 1+50 W	3	8.000
L25 1+00 W	17	8.000
L25 00+50 W	3	8.000
L25 00+00	8	8.000
L25 00+50 E	4	8.000
L25 1+00 E	5	8.000
L25 1+50 E	3	8.000
L25 2+00 E	2	8.000
L25 2+50 E	3	8.000
L25 3+50 E	5	8.000
L25 4+00 E	3	8.000
L45 2+50 W	4	8.000
L45 2+00 W	1	8.000
L45 1+50 W	1	8.000
L45 1+00 W	3	8.000
L45 0+50 W	1	8.000
L45 0+00	4	8.000
L45 0+50 E	6	8.000
L45 1+00 E	2	8.000
L45 1+50 E	5	8.000
L45 3+00 E	30	8.000
L45 3+50 E	3	8.000
L45 4+00 E	3	8.000
L65 5+50 W	3	8.000
L65 5+00 W	2	8.000
L65 4+50 W	10	8.000

Catharine Project



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GOLD FIELDS CANADIAN MINING LIMITED

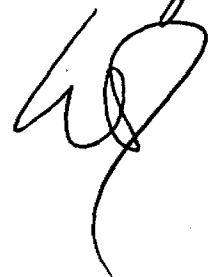
TECHNICAL SERVICE LABORATORIES

NEUTRON ACTIVATION ANALYSIS OUR REPORT: 1014 M5728

SAMPLE FROM: Gold Fields Canadian Mining Ltd.
 467-Preston Lane, P.O. Box 1150
 Timmins, Ontario
 P4N 7H9

SAMPLES of HUMUS
 SHIP # C-BD-HUM-89-13

Sample description	AU PPB	Mass g
L6\$ 4+00 W	9	8.000
L6\$ 3+50 W	4	8.000
L6\$ 3+00 W	2	8.000
L6\$ 2+50 W	2	8.000
L6\$ 2+00 W	3	8.000
S		
L6\$ 1+50 W	2	8.000
L6\$ 1+00 W	3	8.000
L6\$ 0+50 W	4	8.000
L6\$ 0+00	10	8.000
L6\$ 0+50 E	11	8.000
S		
L6\$ 1+00 E	8	8.000
L6\$ 1+50 E	3	8.000
L6\$ 2+00 E	2	8.000
L6\$ 2+50 E	1	8.000
L6\$ 3+00 E	9	8.000
S		
L6\$ 3+50 E	11	8.000
L6\$ 4+00 E	7	8.000
L8\$ 8+00 W	15	8.000
L8\$ 7+50 W	6	8.000
L8\$ 7+00 W	8	8.000
S		
L8\$ 6+50 W	8	8.000
L8\$ 5+50 W	7	8.000
L8\$ 5+00 W	4	8.000
L8\$ 4+50 W	2	8.000
L8\$ 4+00 W	4	8.000
S		
L8\$ 3+50 W	2	8.000
L8\$ 3+00 W	4	8.000
L8\$ 2+50 W	3	8.000
L8\$ 2+00 W	5	8.000
L8\$ 1+50 W	12	8.000
S		
L8\$ 1+00 W	12	8.000
L8\$ 0+50 W	9	8.000
L8\$ 0+00	2	8.000
L8\$ 0+50 E	4	8.000
L8\$ 1+00 E	4	8.000
S		
L8\$ 1+50 E	5	8.000
L8\$ 2+00 E	3	8.000
L8\$ 2+50 E	7	8.000
L8\$ 3+00 E	7	8.000

Catharine Project


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GOLD FIELDS CANADIAN MINING LIMITED


TECHNICAL SERVICE LABORATORIES

NEUTRON ACTIVATION ANALYSIS OUR REPORT: 1014 M5728

SAMPLES FROM: Gold Fields Canadian Mining Ltd.
 467-Preston Lane, P.O. Box 1150
 Timmins, Ontario
 P4N 7H9

SAMPLES of HUMUS
 SHIP # C-BD-HUM-89-13

Sample description	AU PPB	Mass g
-----S-----		
L85 3+50 E	8	8.000
L85 4+00 E	13	8.000
L105 7+00 W	22	8.000
L105 6+50 W	10	8.000
L105 6+00 W	26	8.000
S		
L105 5+50 W	11	8.000
L105 5+00 W	5	8.000
L105 4+50 W	6	8.000
L105 4+00 W	13	8.000
L105 3+50 W	9	8.000
S		
L105 3+00 W	9	8.000
L105 2+50 W	16	8.000
L105 2+00 W	13	8.000
L105 1+50 W	13	8.000
L105 1+00 W	9	8.000
S		
L105 0+50 W	9	8.000
L105 0+00	14	8.000
L105 0+50 E	26	8.000
L105 1+00 E	12	8.000
L105 1+50 E	18	8.000
S		
L105 2+00 E	9	8.000
L105 2+50 E	12	8.000
L105 3+00 E	19	8.000
L125 7+00 W	9	8.000
L125 6+50 W	15	8.000
S		
L125 6+00 W	21	8.000
L125 5+50 W	10	8.000
L125 5+00 W	9	8.000
L125 4+50 W	5	8.000
L125 4+00 W	9	8.000
S		
L125 3+50 W	8	8.000
L125 3+00 W	7	8.000
L125 2+50 W	3	8.000
L125 2+00 W	11	8.000
L125 1+50 W	17	8.000
S		
L125 1+00 W	10	8.000
L125 0+50 W	14	8.000
L125 0+00	9	8.000
L125 0+50 E	8	8.000

Catherine Project


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GOLD FIELDS CANADIAN MINING LIMITED

TECHNICAL SERVICE LABORATORIES
NEUTRON ACTIVATION ANALYSIS OUR REPORT: 1014 M5728

SAMPLES FROM: Gold Fields Canadian Mining Ltd.
467-Preston Lane, P.O. Box 1150
Timmins, Ontario
P4N 7H9

SAMPLES of HUMUS
SHIP # C-BD-HUM-89-13

Sample description	AU PPB	Mass g
L125 ^{South} 1+00 E	17	8.000
L125 1+50 E	19	8.000
L125 2+00 E	12	8.000
L125 2+50 E	9	8.000
L125 3+00 E	9	8.000

Catherine Project



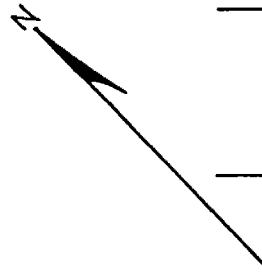
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GOLD FIELDS CANADIAN MINING LIMITED

5000 N

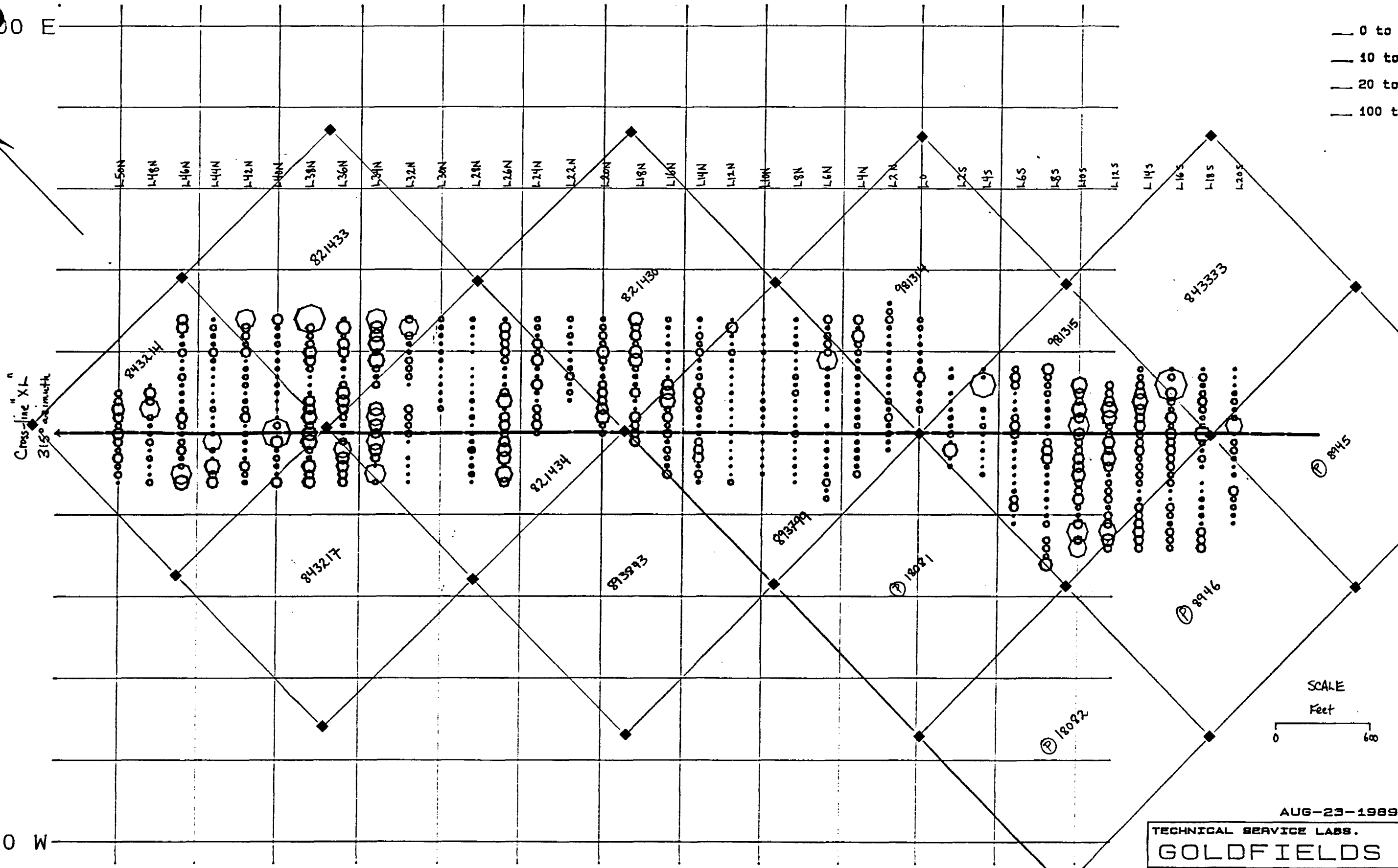
CATHARINE TOWNSHIP
HAMUS SURVEY
SAMPLE SHIPMENT C-8D-HAM-89-13

1500 S

2500 E



- 0 to 9 Gold .
- 10 to 19 Gold .
- 20 to 99 Gold .
- 100 to 2000 Gold .



2500 W

AUG-23-1989

TECHNICAL SERVICE LABS.
GOLDFIELDS
SCALE: 1: 7200
1" = 600'
AZIMUTH 180'

Note: Sample station intervals are 50' apart
 Flagged sample lines are turned off cut cross-line (XL)

TWP	CATHARINE	Northing	23+50S	Depth	Dip	Azimuth	Test	Depth	Dip	Azimuth	Test	Started	FEB.4, 1989
Range Lot	3	Easting	54+50E	150.0	- 60	218		300.0	- 60	219		Finished	FEB.10, 1989
Claim No.	893800	Length (Ft)	707	490.0	- 60	221		600.0	- 60	219		Drilled by	LONGYEAR
Coordinates		Bearing	215	700.0	- 60	221						Logged by	A.P. DROST
Elevation	0	Surface Dip	-60									Comments:	ASSESSMENT
Core Size	NQ												

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE

APR 2 1990

RECEIVED

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au Oz_Ton	Au ppb
0.00	47.00	CASING						
47.00	707.00	DIORITE / GABBRO	2251	47.0	50.0	3.0		15
		Mottled, green and white speckled, coarse-grained intrusive; ophitic texture; chloritized pyroxenes and epidotized feldspar are main minerals; angular mafic volcanic fragments are common locally; some banding noted with variable amounts of light and dark phase;	2252	50.0	55.0	5.0		15
		125.0-550.5: intrusive fabric destruction is common locally due to extensive hangingwall alteration, and remobilization / recrystallization; alteration minerals include, hematite and/or specularite, calcite, minor silica flooding, remobilized chlorite and epidote;	2253	55.0	60.0	5.0		20
		480.6-485.5: SHEAR ZONE: altered, mineralized zone in diorite; wispy fuchsite - sericite - epidote - chlorite shear laminae; strong pervasive calcite alteration; narrow calcite - quartz veinlets (5-10%) 2-3% fine-grained to medium-grained disseminated pyrite locally	2254	60.0	65.0	5.0		5
			2255	65.0	70.0	5.0		10
			2256	70.0	75.0	5.0		15
			2257	75.0	80.0	5.0		15
			2258	80.0	85.0	5.0		10
			2259	85.0	90.0	5.0		15
			2260	90.0	95.0	5.0		10
			2261	95.0	100.0	5.0		10
			2262	100.0	105.0	5.0		10
			2263	105.0	110.0	5.0		30
			2264	110.0	115.0	5.0		10
			2265	115.0	120.0	5.0		10
			2266	120.0	125.0	5.0		10
			2267	125.0	130.0	5.0		10
			2268	130.0	135.0	5.0		15

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au Oz_Ton	Au ppb
	550.5-606.9:	decreased alteration intensity; primary mineralogical fabric well evident	2269	135.0	140.0	5.0		20
	606.9-707.0:	wkly altered section; some chlorite remobilization and fabric recrystallization	2270	140.0	145.0	5.0		15
			2271	145.0	150.0	5.0		50
			2272	150.0	155.0	5.0		15
			2273	155.0	160.0	5.0		15
			2274	160.0	165.0	5.0		10
	ALTERATION:		2275	165.0	170.0	5.0		20
	47.0-125.0:	pyroxene phase strongly chloritized; plagioclase epidotized; epidote stringers common locally; minor garnet phase noted locally;	2276	170.0	175.0	5.0		15
			2277	175.0	180.0	5.0		10
	125.0-306.9:	core strongly hematized locally, generally associated with moderate pervasive calcite alteration locally; hematite coated fracture fillings with and without specularite are common	2278	180.0	185.0	5.0		10
			2279	185.0	190.0	5.0		30
			2280	190.0	195.0	5.0		15
			2281	195.0	200.0	5.0		15
	306.9-480.6:	fabric destruction common; chlorite remobilized; spotted chlorite alteration common; moderate pervasive hematization	2282	200.0	205.0	5.0		15
			2283	205.0	210.0	5.0		10
			2284	210.0	215.0	5.0		15
	480.6-485.5:	shear zone; fluidized; strong perv calcite alteration; moderately chloritized; fuchsite - sericite - epidote - chlorite shear laminae	2285	215.0	220.0	5.0		15
			2286	220.0	225.0	5.0		15
			2287	225.0	230.0	5.0		10
	485.5-550.5:	remobilized chlorite; weak to moderate hematization with hematite pods +/- specularite common as open-space fracture fillings; moderate pervasive calcite alteration noted locally	2288	230.0	235.0	5.0		10
			2289	235.0	240.0	5.0		10
			2290	240.0	245.0	5.0		15
			2291	245.0	250.0	5.0		15
	550.5-606.9:	weak pervasive hematite, especially hematized plagioclase; primary fabric preserved; weak pervasive calcite noted locally	2292	250.0	255.0	5.0		10
			2293	255.0	260.0	5.0		10
			2294	260.0	265.0	5.0		15
	656.0-658.4:	mineralized zone; bleached; strong pervasive calcite alteration; chloritic; possible silica flooding	2295	265.0	270.0	5.0		15
			2296	270.0	275.0	5.0		15
			2297	275.0	280.0	5.0		10
	STRUCTURE:	massive fabric; no discernible fabric or cleavage noted	2298	280.0	285.0	5.0		15
			2299	285.0	290.0	5.0		15
	129.7-306.9:	core somewhat blocky locally, possibly indicating increased fracture density	2300	290.0	295.0	5.0		10
			2301	295.0	300.0	5.0		5

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au Oz_Ton	Au ppb
		359.7-374.1: hairline fracturing common; highly blocky core with extensive fracturing	2302	300.0	305.0	5.0		15
		374.1-550.5: hairline fracturing common through section	2303	305.0	310.0	5.0		15
		390.0-394.0: blocky core; fracture zone; no preferred orientation	2304	310.0	315.0	5.0		10
			2305	315.0	320.0	5.0		5
			2306	320.0	325.0	5.0		10
		428.8-429.2: small breccia zone; fault	2307	325.0	330.0	5.0		10
		432.0-437.4: blocky core; fracture zone; no preferred orientation	2308	330.0	335.0	5.0		5
			2309	335.0	340.0	5.0		5
		443.0-444.6: blocky core; fracture zone; no preferred orientation	2310	340.0	345.0	5.0		5
			2311	345.0	350.0	5.0		10
		480.6-485.5: shear zone; narrow shear laminae indicate strong fabric development	2312	350.0	355.0	5.0		10
			2313	355.0	360.0	5.0		5
		634.6-649.4: blocky, broken core with clay fault gouge locally; probable fracture zone; barren	2314	360.0	365.0	5.0		5
			2315	365.0	370.0	5.0		10
		656.0-658.4: mineralized zone; strong hairline fracturing; no preferred orientation	2316	370.0	375.0	5.0		10
			2317	375.0	380.0	5.0		25
			2318	380.0	385.0	5.0		10
		Some fabric development noted:	2319	385.0	390.0	5.0		10
		Cleavage: 410.0 feet 60 degrees to core axis	2320	390.0	395.0	5.0		10
		416.0 feet 47 degrees to core axis	2321	395.0	400.0	5.0		10
		482.0 feet 56 degrees to core axis	2322	400.0	405.0	5.0		10
			2323	405.0	410.0	5.0		30
		VEINING: narrow calcite stringer veining common locally with minor hematite;	2324	410.0	415.0	5.0		140
		49.8-50.5: calcite - quartz vein; coarse-grained; low core axis; barren	2325	415.0	420.0	5.0		10
			2326	420.0	425.0	5.0		10
		103.3-103.6: vuggy quartz vein, barren;	2327	425.0	430.0	5.0		10
		129.7-306.9: calcite - specularite fracture fillings common locally; calcite stringers are common generally, no preferred orientation;	2328	430.0	435.0	5.0		10
			2329	435.0	440.0	5.0		5
			2330	440.0	445.0	5.0		15
		237.0-243.0: patchy calcite - quartz stringer veining; locally vuggy, coarse-grained; calcite - specularite coated fracture;	2331	445.0	450.0	5.0		5
			2332	450.0	455.0	5.0		5
			2333	455.0	460.0	5.0		5
			2334	460.0	465.0	5.0		5

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au Oz_Ton	Au ppb
275.6-275.8:		chlorite - quartz - calcite veinlet;	2335	465.0	470.0	5.0		5
		coarse-grained; 45 degrees to core axis; barren	2336	470.0	475.0	5.0		5
282.1-282.5:		calcite - quartz - epidote vein;	2337	475.0	480.0	5.0		5
		coarse-grained; irregular contacts; barren	2338	480.0	483.0	3.0		160
289.4-289.6:		narrow specularite - calcite - quartz veinlet;	2339	483.0	486.0	3.0		5
		coarse-grained; 50 degrees to core axis	2340	486.0	491.0	5.0		40
291.6-292.1:		chlorite - calcite - quartz vein; 2" wide;	2341	491.0	496.0	5.0		15
		coarse-grained; barren	2342	496.0	500.0	4.0		5
299.0-299.6:		calcite - chlorite - quartz veinlet; 1" wide;	2343	500.0	505.0	5.0		5
		30 degrees to core axis; barren	2344	505.0	510.0	5.0		5
306.9-374.1:		chlorite - hematite - calcite stringer	2345	510.0	515.0	5.0		5
		veinlets and fracture fillings common, no preferred orientation;	2346	515.0	520.0	5.0		20
		calcite stringers common, barren	2347	520.0	525.0	5.0		5
377.0-382.0:		minor barren quartz pods and stringers common	2348	525.0	530.0	5.0		10
480.6-485.5:		shear zone; calcite - quartz veinlets, 5-10%	2349	530.0	535.0	5.0		10
527.2-527.4:		narrow chlorite - calcite - quartz vein;	2350	535.0	540.0	5.0		10
		coarse-grained; irregular contacts; barren	2351	540.0	545.0	5.0		15
544.7-544.8:		narrow calcite - chlorite - quartz veinlet;	2352	545.0	550.0	5.0		10
		barren; 57 degrees to core axis	2353	550.0	555.0	5.0		10
600.3-600.7:		chlorite - calcite - quartz vein;	2354	555.0	560.0	5.0		15
		coarse-grained; barren	2355	560.0	565.0	5.0		15
634.6-649.4:		patchy quartz stringer veining in fracture	2356	565.0	570.0	5.0		20
		zone; no preferred orientation; barren	2357	570.0	575.0	5.0		10
			2358	575.0	580.0	5.0		10
		MINERALIZATION: trace pyrite noted locally;	2359	580.0	585.0	5.0		10
480.0-485.5:		shear zone; trace-3% pyrite disseminated through	2360	585.0	590.0	5.0		10
		chloritic groundmass locally	2361	590.0	595.0	5.0		35
656.0-658.4:		fractured, altered mineralized zone; strong	2362	595.0	600.0	5.0		5
		hairline fracturing; 2-5% disseminated and stringer sulphides	2363	600.0	605.0	5.0		10
		locally	2364	605.0	610.0	5.0		10
			2365	610.0	615.0	5.0		20
			2366	615.0	620.0	5.0		15
			2367	620.0	625.0	5.0		40

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au Oz_Ton	Au ppb
			2368	625.0	630.0	5.0		30
			2369	630.0	635.0	5.0		10
			2370	635.0	640.0	5.0		10
			2371	640.0	645.0	5.0		30
			2372	645.0	650.0	5.0		100
			2373	650.0	653.0	3.0		50
			2374	653.0	656.0	3.0		20
			2375	656.0	659.0	3.0		20
			2376	659.0	662.0	3.0		10
			2377	662.0	665.0	3.0		10
			2378	665.0	670.0	5.0		5
			2379	670.0	675.0	5.0		25
			2380	675.0	680.0	5.0		40
			2381	680.0	685.0	5.0		150
			2382	685.0	690.0	5.0		30
			2383	690.0	695.0	5.0		10
			2384	695.0	700.0	5.0		10
			2385	700.0	704.0	4.0		30
			2386	704.0	707.0	3.0		75
707.00	707.00	END OF HOLE						

Drillhole Summary

The target shear zone is wholly contained in a diorite sequence which is moderately to intensely altered and recrystallized locally. The shear zone in this location is narrower, contains less quartz stringer veining and lower sulphide content than the updip and along-strike Main Zone to the northwest on the Giblein - Ridgway patents.

The core for DDH C89-1 was split with half being sent for analysis to TSL, Timmins and half being stored at the Gold Fields' base in Timmins.

TWP	CATHARINE	Northing	37+00S	Depth	Dip	Azimuth	Test	Depth	Dip	Azimuth	Test	Started	89/02/11
Range Lot	3	Easting	68+00E	150.0	- 46	213		300.0	- 45	214		Finished	89/02/15
Claim No.	1046146	Length (Ft)	607	450.0	- 45	214		600.0	- 44	209		Drilled by	LONGYEAR
Coordinates		Bearing	210									Logged by	A.P. DROST
Elevation	0	Surface Dip	-45									Comments:	ASSESSMENT DRILLING
Core Size	NQ												

ONTARIO GEOLOGICAL SURVEY
 ASSESSMENT FILES
 OFFICE
 APR 2 1990
 RECEIVED

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au Oz_Ton	Au ppb
0.00	43.00	CASING						
43.00	607.00	DIORITE	2387	43.0	48.0	5.0		35
			2388	48.0	53.0	5.0		40
		Locally altered recrystallized diorite; medium greenish - grey, speckled green and white matrix; medium to coarse grained; primary intrusive texture locally obscured by alteration; grain size reduction locally as noted; coarse-grained feldspar and chloritized mafic minerals generally observable throughout the section; hematite, chlorite and calcite fracture fillings noted locally; mafic volcanic fragments commonly noted; chloritization of ferromagnesian minerals complete	2389	53.0	58.0	5.0		110
			2390	58.0	63.0	5.0		95
			2391	63.0	68.0	5.0		30
			2392	68.0	73.0	5.0		50
			2393	73.0	78.0	5.0		30
			2394	78.0	83.0	5.0		50
			2395	83.0	88.0	5.0		140
			2396	88.0	93.0	5.0		130
			2397	93.0	98.0	5.0		55
			2398	98.0	103.0	5.0		40
		ALTERATION:	2399	103.0	108.0	5.0		45
		47.0-61.3: silicified and chlorite spotted diorite; ankerite -quartz stringers; trace - 0.5% pyrite	2400	108.0	113.0	5.0		140
		61.3-163.0: weak to moderate pervasive epidotization of plagioclase; weak to moderate calcite alteration	2401	113.0	118.0	5.0		25
		145.3-163.0: highly fractured altered horizon with trace -	2402	118.0	123.0	5.0		45
			2403	123.0	128.0	5.0		40

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au Oz_Ton	Au ppb
		0.5% pyrite locally	2404	128.0	133.0	5.0		30
		195.0-209.0: weak pervasive chloritization, calcite obscuring primary intrusive fabric; recrystallized	2405	133.0	138.0	5.0		30
		209.0-282.8: primary intrusive fabric preserved; weak hematization of plagioclase; chloritization of ferromagnesian minerals; mafic volcanic fragments common	2406	138.0	143.0	5.0		100
		282.8-372.3: recrystallized fabric; grain size reduction; weak to moderate calcite, epidotization and chlorite remobilization	2407	143.0	148.0	5.0		100
		372.3-480.3: primary mineralogical fabric largely preserved; chloritized ferromagnesian and chlorite remobilization	2408	148.0	153.0	5.0		75
		480.3-487.0: intensely altered section; strongly recrystallized fine-grained fabric; moderate hematite and remobilized chlorite with strong silicification; trace - 3% disseminated and stringer pyrite locally	2409	153.0	158.0	5.0		240
		509.3-520.1: Hangingwall to Fault Zone: intense chloritization with moderate silicification locally; weak hematization locally; weak calcite; total fabric destruction	2410	158.0	163.0	5.0		70
		520.1-522.8: Fault; intense silica flooding with lesser hematite, chlorite, calcite	2411	163.0	168.0	5.0		30
		522.8-555.0: weakly to moderately altered, recrystallized diorite, chlorite, epidote; fine-grained; moderate pervasive calcite alteration	2412	168.0	173.0	5.0		15
		STRUCTURE: generally massive fabric; no preferred orientation or cleavage noted; hairline fracturing and microfracturing common locally	2413	173.0	178.0	5.0		40
		145.5-159.5: highly fractured blocky core; probable fracture zone; associated with calcite - ankerite - chlorite - quartz veining and silica flooding	2414	178.0	183.0	5.0		10
		509.3-529.1: Hangingwall to Fault Zone: lower contact at 30 degrees to core axis; weak penetrative fabric development	2415	183.0	188.0	5.0		10
		520.1-522.8: Fault; narrow brittle fault; healed with	2416	188.0	193.0	5.0		20
			2417	193.0	198.0	5.0		10
			2418	198.0	203.0	5.0		15
			2419	203.0	208.0	5.0		10
			2420	208.0	213.0	5.0		15
			2421	213.0	218.0	5.0		10
			2422	218.0	223.0	5.0		30
			2423	223.0	228.0	5.0		10
			2424	228.0	233.0	5.0		10
			2425	233.0	238.0	5.0		35
			2426	238.0	243.0	5.0		15
			2427	243.0	248.0	5.0		25
			2428	248.0	253.0	5.0		15
			2429	253.0	258.0	5.0		25
			2430	258.0	263.0	5.0		20
			2431	263.0	268.0	5.0		10
			2432	268.0	273.0	5.0		10
			2433	273.0	278.0	5.0		15
			2434	278.0	283.0	5.0		15
			2435	283.0	288.0	5.0		80
			2436	288.0	293.0	5.0		20

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au Oz_Ton	Au ppb
		silica flooding; total fabric obliteration; lower contact at 30 degrees to core axis	2437	293.0	298.0	5.0		15
			2438	298.0	302.0	4.0		220
			2439	302.0	307.0	5.0		30
		VEINING: anastomosing calcite stringers common locally;	2440	307.0	312.0	5.0		15
		core axis angles highly variable from 20-60 degrees generally;	2441	312.0	317.0	5.0		15
		locally with quartz; generally barren; trace blebby pyrite	2442	317.0	322.0	5.0		15
		noted locally with fracture-filling calcite	2443	322.0	327.0	5.0		15
		55.7-55.9: chlorite - quartz veinlet; 80 degrees to core	2444	327.0	332.0	5.0		50
		axis; trace pyrite in chlorite clot	2445	332.0	337.0	5.0		15
		67.7-68.3: ankerite - chlorite - quartz veining; 80 degrees	2446	337.0	342.0	5.0		15
		to core axis; barren	2447	342.0	347.0	5.0		30
		146.3-149.0: calcite - ankerite - chlorite - quartz veining /	2448	347.0	352.0	5.0		10
		flooding; stringer stockwork; trace-0.5% pyrite noted	2449	352.0	357.0	5.0		25
		176.4-176.6: calcite-chlorite-quartz vein; coarse-grained;	2450	357.0	362.0	5.0		10
		30 degrees to core axis; barren	2451	362.0	367.0	5.0		15
		220.8-221.0: chlorite - calcite veinlet, irregular contacts;	2452	367.0	372.0	5.0		70
		barren	2453	372.0	377.0	5.0		10
		277.0-388.1: narrow calcite veinlets locally with chlorite,	2454	377.0	382.0	5.0		10
		quartz common; core axis angles vary from 20-60 degrees to	2455	382.0	387.0	5.0		15
		core axis	2456	387.0	392.0	5.0		10
		299.0-301.0: calcite - chlorite - silica flooding with	2457	392.0	397.0	5.0		40
		stringer veining; 5-7% pyrite; 40 degrees to core axis	2458	397.0	402.0	5.0		40
		315.7-316.7: hematite - chlorite - quartz flooding and	2459	402.0	407.0	5.0		10
		stringer veining; coarse-grained; 1-2% blebby pyrite; irregular	2460	407.0	412.0	5.0		10
		contacts	2461	412.0	417.0	5.0		20
		326.6-327.8: calcite - chlorite stringers along core axis;	2462	417.0	422.0	5.0		10
		trace - 0.5% pyrite	2463	422.0	427.0	5.0		25
		334.5-334.6: calcite - quartz veinlet; 80 degrees to core	2464	427.0	432.0	5.0		15
		axis; barren	2465	432.0	437.0	5.0		40
		335.3-335.6: calcite - quartz stringer veining; 35 degrees	2466	437.0	442.0	5.0		35
		to core axis; 1% blebby pyrite	2467	442.0	447.0	5.0		20
		344.2-345.0: calcite open-space fracture-filling; 0.5% blebby	2468	447.0	452.0	5.0		15
		pyrite; 15 degrees to core axis	2469	452.0	457.0	5.0		15

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au Oz_Ton	Au ppb
		353.9-354.4: silica, calcite bleaching; trace pyrite	2470	457.0	462.0	5.0		75
		378.0-378.6: patchy calcite - chlorite - quartz veinlet;	2471	462.0	467.0	5.0		15
		coarse-grained; along core axis; barren	2472	467.0	472.0	5.0		35
		397.0-399.3: narrow patchy calcite stringer veining; barren;	2473	472.0	477.0	5.0		15
		no preferred orientation	2474	477.0	480.0	3.0		25
		446.0-446.1: narrow chlorite - calcite - quartz veinlet;	2475	480.0	483.0	3.0		70
		barren; 45 degrees to core axis	2476	483.0	487.0	4.0		20
		447.1-447.7: banded chlorite - calcite - quartz stringer	2477	487.0	492.0	5.0		35
		veining; coarse-grained; trace - 0.5% disseminated pyrite; 35	2478	492.0	497.0	5.0		25
		degrees to core axis	2479	497.0	502.0	5.0		30
		480.3-481.3: banded chlorite - calcite - quartz stringer	2480	502.0	507.0	5.0		20
		veining; 5-7% disseminated and stringer pyrite; 30 degrees to	2481	507.0	512.0	5.0		15
		core axis	2482	512.0	517.0	5.0		60
		485.2-486.4: patchy quartz - calcite veinlet; 1-2% blebby	2483	517.0	520.0	3.0		20
		pyrite; along core axis	2484	520.0	523.0	3.0		25
		509.3-520.1: Hangingwall to Fault Zone: highly altered,	2485	523.0	528.0	5.0		30
		weakly mineralized zone with calcite stringer veining, quartz -	2486	528.0	533.0	5.0		30
		calcite stringer veining, patchy calcite and quartz;	2487	533.0	538.0	5.0		15
		520.1-522.8: Fault; silica flooding with ankerite - quartz	2488	538.0	543.0	5.0		55
		veining, chlorite and calcite	2489	543.0	548.0	5.0		30
		543.4-544.4: calcite-quartz stringer veining; coarse-grained;	2490	548.0	553.0	5.0		20
		barren; 30 degrees to core axis	2491	553.0	558.0	5.0		15
		558.0-559.3: patchy barren calcite stringer veining;	2492	558.0	563.0	5.0		20
		587.6-588.2: chlorite - calcite - quartz veining; coarse-	2493	563.0	567.0	4.0		20
		grained; barren; 30 degrees to core axis	2494	567.0	572.0	5.0		15
			2495	572.0	577.0	5.0		30
		MINERALIZATION: generally trace - nil sulphides	2496	577.0	582.0	5.0		10
		47.0-61.3: trace - 0.5% disseminated pyrite noted with	2497	582.0	587.0	5.0		10
		silicified, chloritized diorite	2498	587.0	592.0	5.0		5
		155.8-157.0: trace - 0.5% disseminated, blebby and stringer	2499	592.0	597.0	5.0		10
		pyrite noted in altered, fractured horizon (as noted)	2500	597.0	602.0	5.0		10
		248.0-249.5: trace pyrite with chlorite - quartz flooding	2501	602.0	607.0	5.0		5
		299.0-301.0: 5-7% blebby and disseminated pyrite associated						

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au Oz_Ton	Au ppb
		with calcite - chlorite - silica flooding and stringer veining						
		315.7-316.7: 1-2% blebby pyrite with hematite - chlorite - calcite - quartz flooding and stringer veining						
		335.3-335.6: 0.5-1% blebby pyrite in calcite - quartz stringer veining						
		509.3-520.1: trace - 0.5% pyrite disseminated locally with intense chloritization and calcite, calcite - quartz stringer veining						
		520.1-522.8: trace - 1% disseminated pyrite with chlorite, carbonate, silica flooding						
		604.0-605.5: calcite - quartz stringer veining; coarse-grained; barren						
607.00	607.00	END OF HOLE						
		Summary of DDH C89-2						
		The drillhole was wholly contained in diorite. The host unit was altered to varying degrees locally although to a lesser extent than that encountered in DDH C89-1.						
		A fault zone was intersected between 509.1-522.8 ft. This structure appears to be on strike with a gold-bearing shear zone sampled on surface to the northwest on the Giblin-Ridgway patented claims, known as the Main Zone.						
		The intersection in DDH C89-2 does not carry appreciable gold values.						
		All core from the hole was split with half sent for analysis to TSL, Timmins and half stored in Timmins.						

TWP	CATHARINE	Northing	0+00N	Depth	Dip	Azimuth	Test	Depth	Dip	Azimuth	Test	Started	89/02/15
Range Lot	4	Easting	0+00E	150.0	- 44	221		300.0	- 43	219		Finished	89/02/20
Claim No.	821433	Length (Ft)	787	450.0	- 43	219		600.0	- 43	221		Drilled by	LONGYEAR
Coordinates		Bearing	220	750.0	- 42	219						Logged by	A.P. DROST
Elevation	0	Surface Dip	-45									Comments:	DALEY SHOWING AREA
Core Size	NQ												NO CUT GRID;

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FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au Oz_Ton	Au ppb	Mo ppm
0.00	24.00	CASING							
24.00	70.40	INTERMEDIATE - MAFIC TUFF	2502	24.0	29.0	5.0		20	
		Light to medium greenish - grey; fine-grained to locally medium-grained tuffaceous locally porphyritic fabric; plagioclase phenocrysts common (<0.5mm); quartz - feldspar angular fragments noted locally up to 1 cm diameter;	2503	29.0	34.0	5.0		20	
		Alteration: weak to moderate pervasive calcite; weak pervasive chloritization locally; bleached appearance locally	2504	34.0	39.0	5.0		15	
		Structure: massive fabric; calcite fracture fillings at 40-50 degrees to core axis	2505	39.0	44.0	5.0		10	
		VEINING: calcite stringers common, locally with hematite; core angles variable from 35-50 degrees to core axis; locally with minor epidote, hematite, pyrite	2506	44.0	49.0	5.0		10	
			2507	49.0	54.0	5.0		5	
			2508	54.0	59.0	5.0		10	
			2509	59.0	64.0	5.0		15	
			2510	64.0	70.4	6.4		10	

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au Oz_Ton	Au ppb	Mo ppm
MINERALIZATION: trace - 0.5% disseminated pyrite noted locally									
Lower contact at 36 degrees to core axis									
70.40	450.20	MAFIC TUFF	2511	70.4	75.0	4.6		10	
			2512	75.0	80.0	5.0		10	
		Medium to dark greyish - green; fine to medium grained	2513	80.0	85.0	5.0		15	
		groundmass; rare black angular lithic fragments noted locally;	2514	85.0	90.0	5.0		15	
		generally massive structural fabric; commonly exhibits a	2515	90.0	95.0	5.0		15	
		mottled, porphyritic fabric which is a probable alteration /	2516	95.0	100.0	5.0		10	
		recrystallization effect (epidotization, chloritization); minor	2517	100.0	105.0	5.0		10	
		pitting and calcite filled vesicles are noted locally; calcite	2518	105.0	110.0	5.0		10	
		and hematite are common fracture fillings	2519	110.0	115.0	5.0		15	
			2520	115.0	120.0	5.0		15	
		ALTERATION: weak to moderate pervasive calcite alteration	2521	120.0	125.0	5.0		10	
		common; weak to moderate pervasive epidotization and	2522	125.0	130.0	5.0		10	
		chloritization cause mottled, porphyritic appearance locally	2523	130.0	135.0	5.0		10	
		(with mafic phenocrysts)	2524	135.0	140.0	5.0		15	
		379.5-387.4: bleached altered zone; strong pervasive calcite;	2525	140.0	145.0	5.0		10	
		weak minor fuchsite - chloritic pods; trace-0.5% pyrite	2526	145.0	150.0	5.0		15	
		388.0-397.5: mottled texture with "spottled" chlorite and	2527	150.0	155.0	5.0		10	
		calcite alteration; barren	2528	155.0	160.0	5.0		15	
		400.6-407.0: Hangingwall bleached, altered zone; gradational	2529	160.0	165.0	5.0		10	
		contacts; moderate hematization, moderate to strong pervasive	2530	165.0	170.0	5.0		10	
		calcite; pinkish hue; 0.5-1% disseminated pyrite	2531	170.0	175.0	5.0		10	
		407.2-450.2: SHEAR ZONE; strong pervasive chloritization	2532	175.0	180.0	5.0		10	
		with possible actinolite in fractures; moderate to strong	2533	180.0	185.0	5.0		20	
		pervasive calcite alteration; minor hematite pods locally;	2534	185.0	190.0	5.0		10	
		possible epidotization; very soft groundmass	2535	190.0	195.0	5.0		15	
			2536	195.0	200.0	5.0		15	
		STRUCTURE: generally massive structural fabric; moderate	2537	200.0	205.0	5.0		5	
		mineral foliation locally, possibly mimicking primary tuffaceous	2538	205.0	210.0	5.0		10	

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au Oz_Ton	Au ppb	Mo ppm
		bedding	2539	210.0	215.0	5.0		10	
		76.0-90.0: blocky core exhibits wide - spaced fracturing;	2540	215.0	220.0	5.0		5	
		143.5-149.4: blocky core indicates wide spaced fracture zone	2541	220.0	225.0	5.0		10	
		182.8-183.2: calcite - hematite fracture seam	2542	225.0	230.0	5.0		5	
		308.5-313.0: tuff breccia; probable fault zone; calcite	2543	230.0	235.0	5.0		5	
		flooding; 0.5-1% disseminated pyrite; lower contact at 50	2544	235.0	240.0	5.0		15	
		degrees to core axis	2545	240.0	245.0	5.0		5	
		387.4-388.1: brittle fault / fracture zone; lower contact	2546	245.0	250.0	5.0		10	
		at 60 degrees to core axis	2547	250.0	255.0	5.0		10	
		388.4-388.6: narrow brittle fault / fracture with chloritic	2548	255.0	260.0	5.0		10	
		clayey gouge; barren quartz stringers	2549	260.0	265.0	5.0		10	
		407.2-450.2: SHEAR ZONE; strong fabric development locally;	2550	265.0	270.0	5.0		15	
		highly chaotic fabric locally; upper contact at 49 degrees to	2551	270.0	275.0	5.0		5	
		core axis; chloritic clayey fault gouge along fractures	2552	275.0	280.0	5.0		5	
		common; lower contact at 60 degrees to core axis (sharp)	2553	280.0	285.0	5.0		55	
			2554	285.0	290.0	5.0		45	
		Cleavage: 102.0 feet 50 degrees to core axis	2555	290.0	295.0	5.0		25	
		233.0 feet 57 degrees to core axis	2556	295.0	300.0	5.0		20	
		300.0 feet 60 degrees to core axis	2557	300.0	305.0	5.0		10	
		313.0 feet 50 degrees to core axis	2558	305.0	310.0	5.0		10	
		343.5 feet 56 degrees to core axis	2559	310.0	315.0	5.0		10	
		352.0 feet 64 degrees to core axis	2560	315.0	320.0	5.0		5	
		408.5 feet 70 degrees to core axis	2561	320.0	325.0	5.0		5	
		420.0 feet 65 degrees to core axis	2562	325.0	330.0	5.0		10	
		431.0 feet 52 degrees to core axis	2563	330.0	335.0	5.0		15	
		441.0 feet 58 degrees to core axis	2564	335.0	340.0	5.0		10	
		445.0 feet 53 degrees to core axis	2565	340.0	345.0	5.0		15	
			2566	345.0	350.0	5.0		5	
		VEINING: barren calcite stringer veining common, sometimes	2567	350.0	355.0	5.0		5	
		mimicking mineral foliation; locally with epidote, hematite,	2568	355.0	360.0	5.0		5	
		disseminated pyrite	2569	360.0	365.0	5.0		5	
		99.3-99.8: milky hematite - calcite - silica stringer	2570	365.0	370.0	5.0		10	
		veining; trace pyrite	2571	370.0	375.0	5.0		5	

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au Oz_Ton	Au ppb	Mo ppm
	108.6-109.0:	epidote - hematite - calcite - silica stringer veining; 30 degrees to core axis; trace - 0.5% pyrite	2572	375.0	380.0	5.0		10	
	131.7-132.1:	milky epidote - calcite - quartz vein; contacts at 45 degrees to core axis; 2-3% disseminated and blebby pyrite at lower margin	2573	380.0	385.0	5.0		5	
	143.8-145.0:	epidote - calcite - hematite - quartz stringer veining locally; trace - 0.5% pyrite	2574	385.0	390.0	5.0		40	
	225.0-225.2:	narrow calcite stringer veining; barren; contacts at 60 degrees to core axis	2575	390.0	395.0	5.0		<5	
	241.1-241.2:	narrow calcite stringer veining; 2-3% pyrite; 70 degrees to core axis	2576	395.0	400.0	5.0		10	
	243.3-243.9:	calcite stringer veining with hematite fracture fillings; 1-2% disseminated pyrite	2577	400.0	405.0	5.0		5	
	297.1-297.4:	patchy calcite - quartz stringer veining; barren	2578	405.0	410.0	5.0		20	
	299.3-299.5:	calcite - quartz stringer veining; 0.5-1% disseminated stringer veining	2579	410.0	415.0	5.0		25	
	326.1-326.7:	massive calcite vein; patchy; barren	2580	415.0	420.0	5.0		35	
	342.6-343.4:	calcite stringer flooding; 0.5-1% disseminated pyrite	2581	420.0	425.0	5.0		25	
	354.4-354.7:	calcite - quartz stringer; coarse-grained; barren	2582	425.0	430.0	5.0		25	
	387.4-388.1:	brittle fault zone with chlorite - quartz vein; coarse-grained; trace-0.5% fine-grained pyrite; lower contact at 60 degrees to core axis	2583	430.0	435.0	5.0		25	
	388.4-388.6:	chlorite - calcite - quartz veinlet; coarse-grained; barren	2584	435.0	440.0	5.0		110	
	397.5-398.4:	calcite, epidote, and calcite - quartz narrow stringer veining; trace - 0.5% pyrite	2585	440.0	445.0	5.0		20	
	400.6-407.0:	Hangingwall alteration zone; patchy, anastomosing quartz stringers common; generally barren	2586	445.0	450.0	5.0		10	
	407.2-450.2:	SHEAR ZONE; strong calcite stringer development; patchy quartz and quartz - feldspar veining as noted; generally barren; trace-0.5% disseminated pyrite locally							

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au Oz_Ton	Au ppb	Mo ppm
		407.2-407.6: calcite - quartz stringer veining and flooding with minor hematite							
		412.4-414.0: chlorite - calcite - quartz stringer veining and flooding with minor hematite; trace pyrite							
		441.9-447.4: actinolite - quartz - feldspar veining; locally massive, coarse-grained with fractured appearance; actinolite generally in fractures; barren							
		MINERALIZATION: disseminated pyrite along fractures common; 0.5%-1% fine-grained disseminated pyrite through section; elevated pyrite with narrow patchy calcite stringers locally;							
		349.7-350.0: 1-2% blebby pyrite associated with bleaching and pervasive calcite alteration; gradational							
		400.6-407.0: alteration zone; 0.5-1% fine-grained disseminated pyrite noted							
		407.2-450.2: SHEAR ZONE; trace - 0.5% disseminated pyrite, locally along thin vein selvages							
		Sharp lower contact at 60 degrees to core axis							
450.20	525.30	MAFIC INTRUSIVE	2587	450.0	455.0	5.0		10	
			2588	455.0	460.0	5.0		10	
		Dark grey - black; medium-grained - coarse-grained; uniform textural fabric; iridescent plagioclase feldspar phase; 5-10% ragged biotite phase randomly distributed through groundmass;	2589	460.0	465.0	5.0		10	
			2590	465.0	470.0	5.0		10	
		519.1-519.7: sheared, altered mafic tuff; trace - 0.5% pyrite; upper contact at 67 degrees to core axis;	2591	470.0	475.0	5.0		10	
			2592	475.0	480.0	5.0		10	
			2593	480.0	485.0	5.0		10	
			2594	485.0	490.0	5.0		10	
		STRUCTURE: massive fabric	2595	490.0	495.0	5.0		10	
		520.3-525.5: broken, rubbly core; fault/frac zone; narrow; chloritic mud slips common	2596	495.0	500.0	5.0		10	
			2597	500.0	505.0	5.0		5	
			2598	505.0	510.0	5.0		5	

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au Oz_Ton	Au ppb	Mo ppm
		VEINING: very minor fracture-filling hematite, chlorite noted locally	2599	510.0	515.0	5.0		5	
			2600	515.0	520.0	5.0		85	
		MINERALIZATION: barren							
		Lower contact faulted; clay gouge; broken; 67 degrees to core axis							
			2601	520.0	525.5	5.5		10	
525.50	534.30	MAFIC TUFF	2602	525.5	530.0	4.5		25	
			2603	530.0	534.3	4.3		20	
		Sheared; highly altered with moderate to strong chloritization, calcite and minor actinolite(?)/ green carbonate stringer veining;							
		STRUCTURE: several narrow chloritic mud-rich fault gouge seams; trace pyrite; trace pyrite							
		526.0: contact of chloritic alteration patch at 68 degrees to core axis; possible fault plane							
		532.1-532.6: chloritic fault gouge; fault plane; lower contact at 67 degrees to core axis							
		Lower contact gradational							
534.30	547.00	QUARTZ FELDSPAR PORPHYRY	2604	534.3	540.0	5.7		10	
			2605	540.0	544.0	4.0		20	
			2606	544.0	547.0	3.0		35	
		Beige-pink groundmass with greenish hue; medium-grained to coarse-grained porphyritic intrusive fabric; large rounded quartz phenocrysts / fragments up to 1 cm in diameter; minor possible tourmaline fracture fillings							

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au Oz_Ton	Au ppb	Mo ppm
		Alteration: weak pervasive hematite alteration, weak pervasive calcite; weak - moderate pervasive chloritization; STRUCTURE: massive fabric VEINING: 534.3-537.3: patchy chloritic fracture fillings common; MINERALIZATION: trace - 0.5% pyrite locally							
547.00	556.30	MAFIC TUFF	2607 2608	547.0 552.0	552.0 556.3	5.0 4.3		75 50	
		Medium greenish - grey color; mottled alteration fabric; moderate fabric development, mineral foliation / cleavage 555.9-556.1: lamprophyre dykelet; chilled; fine-grained; barren ALTERATION: strong pervasive calcite; weak hematization; weak chloritization with chlorite clotting STRUCTURE: sheared, tectonized fabric; Cleavage: 549.5 feet 65 degrees to core axis MINERALIZATION: trace - 0.5% pyrite Lower contact at 68 degrees to core axis							
556.30	580.20	QUARTZ FELDSPAR PORPHYRY	2609 2610 2611 2612	556.3 560.0 564.0 568.0	560.0 564.0 568.0 572.0	3.7 4.0 4.0 4.0		60 100 210 130	

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au Oz_Ton	Au ppb	Mo ppm
		ALTERATION: moderate hematization; weak pervasive calcite; weak pervasive chloritization	2613 2614	572.0 576.0	576.0 580.2	4.0 4.2		270 75	
		STRUCTURE: fractured fabric; generally with quartz stringer fracture fillings; no preferred orientation evident;							
		VEINING: quartz stringer veining common; 556.7-557.0: patchy calcite - quartz vein; barren 558.1-559.0: calcite - quartz stringer; coarse-grained; milky white; barren; 15 degrees to core axis							
		MINERALIZATION: 1-3% fine-grained disseminated pyrite regularly distributed through groundmass; Lower contact at 80 degrees to core axis							
580.20	593.00	INTERMEDIATE - MAFIC CRYSTAL TUFF (Hematized)	2615 2616 2617	580.2 584.0 588.0	584.0 588.0 593.0	3.8 4.0 5.0		45 20 25	
		Reddish - grey color; fine-grained to medium-grained groundmass; moderate pervasive hematization; massive fabric; minor chlorite - hematite - calcite fracture fillings noted locally							
		MINERALIZATION: 1-2% fine-grained disseminated pyrite							
593.00	687.70	HIGHLY ALTERED (Veined, Mineralized) ZONE (HAZ)	2618 2619 2620 2621 2622	593.0 596.0 597.2 602.2 605.0	596.0 597.2 602.2 605.0 608.0	3.0 1.2 5.0 2.8 3.0	0.027	800 180 90 45 220	
		Intense quartz stringer veining and quartz flooded zone; probable mafic tuff protolith; primary features totally destroyed;							

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au Oz_Ton	Au ppb	Mo ppm
	597.2-602.2:	hematized intermediate - mafic crystal tuff; as previously described; enclave in HAZ; 1-2% fine-grained disseminated pyrite;	2623	608.0	611.0	3.0		35	
			2624	611.0	615.9	4.9		160	
			2625	615.9	619.0	3.1		20	
	611.0-615.9:	hematized intermediate - mafic crystal tuff; as previously described; enclave in HAZ; 1-2% fine-grained disseminated pyrite; upper contact at 35 degrees to core axis;	2626	619.0	622.0	3.0		20	
			2627	622.0	625.0	3.0		35	
			2628	625.0	628.0	3.0		35	
	657.2-687.7:	intensely silica flooded zone; resembles large quartz vein; with chlorite partings / fracture fillings and buff-pink hematite - silica altered areas;	2629	628.0	631.0	3.0		10	
			2630	631.0	634.0	3.0		10	
			2631	634.0	637.0	3.0		25	
			2632	637.0	640.0	3.0		10	
	ALTERATION:	highly silicified with moderate to strong hematization locally; moderate pervasive chloritic alteration locally giving patchy green and pink to brick-red coloration;	2633	640.0	643.0	3.0		15	
			2634	643.0	646.0	3.0		40	
			2635	646.0	649.0	3.0		260	
	STRUCTURE:	contorted, chaotic and fractured appearance	2636	649.0	652.0	3.0	0.042	>1000	
			2637	652.0	655.0	3.0		200	
	644.0-645.0:	chloritic fault / fracture zone	2638	655.0	658.0	3.0		230	14
	647.0-657.0:	broken, blocky core; probable fracture zone	2639	658.0	661.0	3.0		60	42
	655.7-657.2:	chloritic fault / fracture zone; chloritic mud gouge; with minor quartz - calcite stringers at 37 degrees to core axis; 0.5% - 1% disseminated and fracture-filling pyrite; lower contact irregular	2640	661.0	664.0	3.0		80	210
			2641	664.0	667.0	3.0		10	28
			2642	667.0	670.0	3.0		5	10
			2643	670.0	673.0	3.0		20	12
	662.0-671.4:	blocky core; brittle fracture zone	2644	673.0	676.0	3.0		110	10
			2645	676.0	679.0	3.0		95	6
	VEINING:	fracturing and fracture-filling stringer veining cut alteration facies; narrow chlorite fracture fillings common locally through zone	2646	679.0	682.0	3.0		10	12
			2647	682.0	685.0	3.0		15	12
			2648	685.0	687.0	2.0		70	16
	593.0-612.8:	Quartz Stringer Zone; milky white coarse-grained quartz; generally barren with sulphidized selvages							
	594.0-596.0:	quartz stringer along core axis; 0.5 - 2" wide							
	602.0-603.2:	quartz stringer along core axis; 0.5 - 2" wide							
	MINERALIZATION:	593.0-656.0: pyrite content highly variable							

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au Oz_Ton	Au ppb	Mo ppm
		from 1-7% locally 657.2-687.7: low background sulphides in quartz; 1-3% disseminated pyrite in buff-pink hematite - silica alteration patches; streaky greyish areas in quartz possibly indicate molybdenum enrichment							
		Lower contact at 40 degrees to core axis							
687.70	749.60	MAFIC TUFF	2649	687.0	692.0	5.0		15	
		Medium to light grey - buff; fine-grained; moderately to intensely altered locally; narrow silica - flooded vein zones similar to HAZ locally; moderately developed alteration banding locally possibly along primary bedding plane	2650	692.0	697.0	5.0		20	
			2651	697.0	702.0	5.0		20	
			2652	702.0	707.0	5.0		15	
			2653	707.0	712.0	5.0		10	
			2654	712.0	717.0	5.0		5	
			2655	717.0	722.0	5.0		5	
		ALTERATION: mottled, banded appearance; core is bleached due to moderate pervasive silicification; weak pervasive chloritization and minor hematization also noted	2656	722.0	727.0	5.0		140	
		687.7-713.3: weak to moderate chloritization, silicification	2657	727.0	732.0	5.0		110	
		713.3-749.6: moderate to strong pervasive silicification with weak hematite; buff color with pinkish hue	2658	732.0	737.0	5.0		15	
			2659	737.0	742.0	5.0		5	
			2660	742.0	747.0	5.0		25	
			2661	747.0	749.6	2.6		10	
		STRUCTURE: strong fracture development noted							
		"Pseudo - Bedding" / Alteration Banding:							
		692.4 feet			49 degrees to core axis				
		703.6 feet			50 degrees to core axis				
		715.3 feet			64 degrees to core axis				
		725.3 feet			60 degrees to core axis				

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au Oz_Ton	Au ppb	Mo ppm
		VEINING: numerous narrow quartz veinlets and stringers locally 689.4-689.7: hematite - silica flooding; highly fractured; trace - 0.5% disseminated pyrite 739.7-741.2: hematite - silica flooding; highly contorted and fractured; 0.5-1% disseminated and stringer pyrite 744.4-746.0: hematite - silica flooding; highly contorted and fractured; 2-3% disseminated and stringer pyrite							
		MINERALIZATION: 687.7-713.3: 0.5-1% disseminated pyrite locally 713.3-749.6: 1-3% disseminated and stringer pyrite locally							
		Lower contact at 42 degrees to core axis							
749.60	787.00	MAFIC FLOW	2662	749.6	754.0	4.4		10	
		Medium to dark greyish green; fine-grained; massive fabric with some alteration banding; flow tube selvages noted locally; moderate to strong anastomosing fracture-filling calcite stringer veining; calcite - filled vesicles common in groundmass	2663	754.0	759.0	5.0		10	
			2664	759.0	764.0	5.0		25	
			2665	764.0	769.0	5.0		15	
			2666	769.0	774.0	5.0		10	
			2667	774.0	779.0	5.0		10	
			2668	779.0	784.0	5.0		10	
		ALTERATION: strong pervasive calcite alteration in groundmass; 778.0-778.4: hematite - silica patch	2669	784.0	787.0	3.0		20	
		STRUCTURE: Pseudo - bedding / Alteration banding; 759.0 feet 56 degrees to core axis							
		MINERALIZATION: trace - 1% disseminated pyrite							
787.00	787.00	END OF HOLE							

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	WIDTH	Au Oz_Ton	Au ppb	Mo ppm
------	----	-------------	--------	------	----	-------	--------------	-----------	-----------

Summary of DDH C89-3

The borehole intersected a northwest striking (310 degrees), northeast dipping rock sequence. Mafic Tuffs form the hanging-wall and footwall host to a well defined NE dipping shear zone (407.2-450.2 feet). The hole then intersects a mafic and QFP intrusives and a wide, steeply southwest dipping silicified zone termed the "Highly Altered Veined Mineralized Zone" (HAZ).

This zone appears to cut across stratigraphy at a shallow angle following an intense fracture zone. Some of the quartz veining intersected in this zone is along the core axis. Low anomalous geochemical gold values have been received from this intersection. It is noted that narrow enclaves of altered mafic tuff do occur within the confines of the HAZ.

The footwall Mafic Tuff exhibits similar alteration effects to the HAZ. A low level of pyrite mineralization is noted locally. A sharp contact with an underlying Mafic Flow is noted. Although strongly calcite altered, the mafic flow does not exhibit alteration characteristic of the overlying units.



Mining Act Report of Work (Expenditures, Subject to Assessment)

Type of Work Performed: **Assaying** Location: **Larder Lake** Township: **Catharine**

Recorded Holder: **Gold Fields Canadian Mining Limited** Mining Lands Section: **MINING LANDS SECTION** Inspector's Licence No.: **T3195**

Address: **P.O. Box 1150, 467C Preston Lane, Timmins, Ontario P4N 7H9** Telephone No.: **(705) 268-6060**

Work Performed By: **Gold Fields Canadian Mining Limited**

Name and Address of Author (of Submission): **A.P. Drost, 227 Toke St., Timmins, Ontario P4N 6V3** Date When Work was Performed: From **5** Day **89** To **11** Day **89**

All the work was performed on Mining Claim(s): Indicate no. of days performed on each claim. *See Note No. 1 on reverse side				Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days			
				821430	36.74	821433	121.98	821434	364.76	843214	200.56					
Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days			
843217	7.06	843333	11.3	859130	9.1	893617	16.1	893619	13.3	893620	3.5					
Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days			
893799	116.05	893800	95.2	981314	60.58	981315	111.16	SEE ATTACHED SCHEDULE 1								
Instructions: Total days credits may be distributed at claim holder's choice. Enter number of days credits per claim in the expenditure days credit column (below).				Calculation of Expenditure Days Credits				Total Expenditures		Total Days Credits		Total Number of Mining Claims Covered by this Report of Work				
								\$ 24706.20		+ 15 =		1647.08		22		

Mining Claims (List in numerical sequence). If space is insufficient, attach schedules with required information

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
L	821429	60	L	843333	60	L	893618	40	L	918187	40
	821431	60		843334	60		893619	40		981311	40
	821432	60		843335	51.4		893620	40		1046145	40
	843214	59		859127	60		893800	40		1046146	40
	843215	60		859128	60		893801	40		1046147	40
	843216	60		859129	60		918184	40		1047991	40
	843331	60		859130	60		918185	40	SEE ATTACHED SCHEDULE 2		
	843332	60		893617	40		918186	40	(next page)		

Total Number of Days Performed	Total Number of Days Claimed	Total Number of Days to be Claimed at a Future Date
1647.08	1618.2	36.63

Certification of Beneficial Interest *See Note No. 2 on reverse side

I hereby certify that, at the time the work was performed, the claims covered in this report of work were recorded in the current recorded holder's name or held under a beneficial interest by the current recorded holder.

Date: **January 31, 1990** Registered Holder or Agent (Signature): *[Signature]*

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 Address of Person Certifying: **A.P. Drost 227 Toke St., Timmins, Ontario P4N 6V3**

ONTARIO GEOLOGICAL SURVEY ASSESSMENT 267-1958 OFFICE. Date: **January 31, 1990** Certified By (Signature): *[Signature]*

For Office Use Only

Total Days Cr. Recorded: **1610.4** Date Recorded: **Feb. 8/90** Mining Recorder: *[Signature]* Date Approved as Recorded: **29 March 1990** Provincial Manager Mining Lands: *[Signature]*

RECEIVED FEB 8 1990

SCHEDULE 1

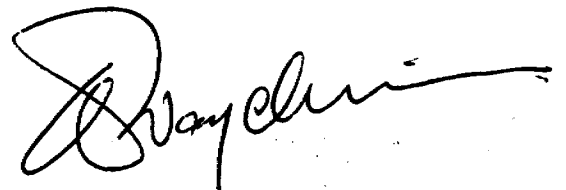
MINING CLAIMS (DAYS EARNED)

Mining Claim	No. of Days
1034696	8.77
1046146	49.71
1046147	30.78
1049179	156.97
1049180	85.45
1049183	6.3
1113047	133.04
1113067	8.62

SCHEDULE 2

MINING CLAIMS (DAYS APPLIED):

Prefix	Number	Expend Days Cr.
L	1047992	40
L	1049179	40
L	1049180	40

A handwritten signature in black ink, appearing to read "Ray Clark", is located in the lower right quadrant of the page.

FORESTRY OPERATIONS

McELROY TP

DEC 5 1989
LARDER LAKE
MINING RECORDS OFFICE

NOTES

400 surface rights only (see also the notes of the
taxes and rivers.

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

NOTICE OF FORESTRY ACTIVITY

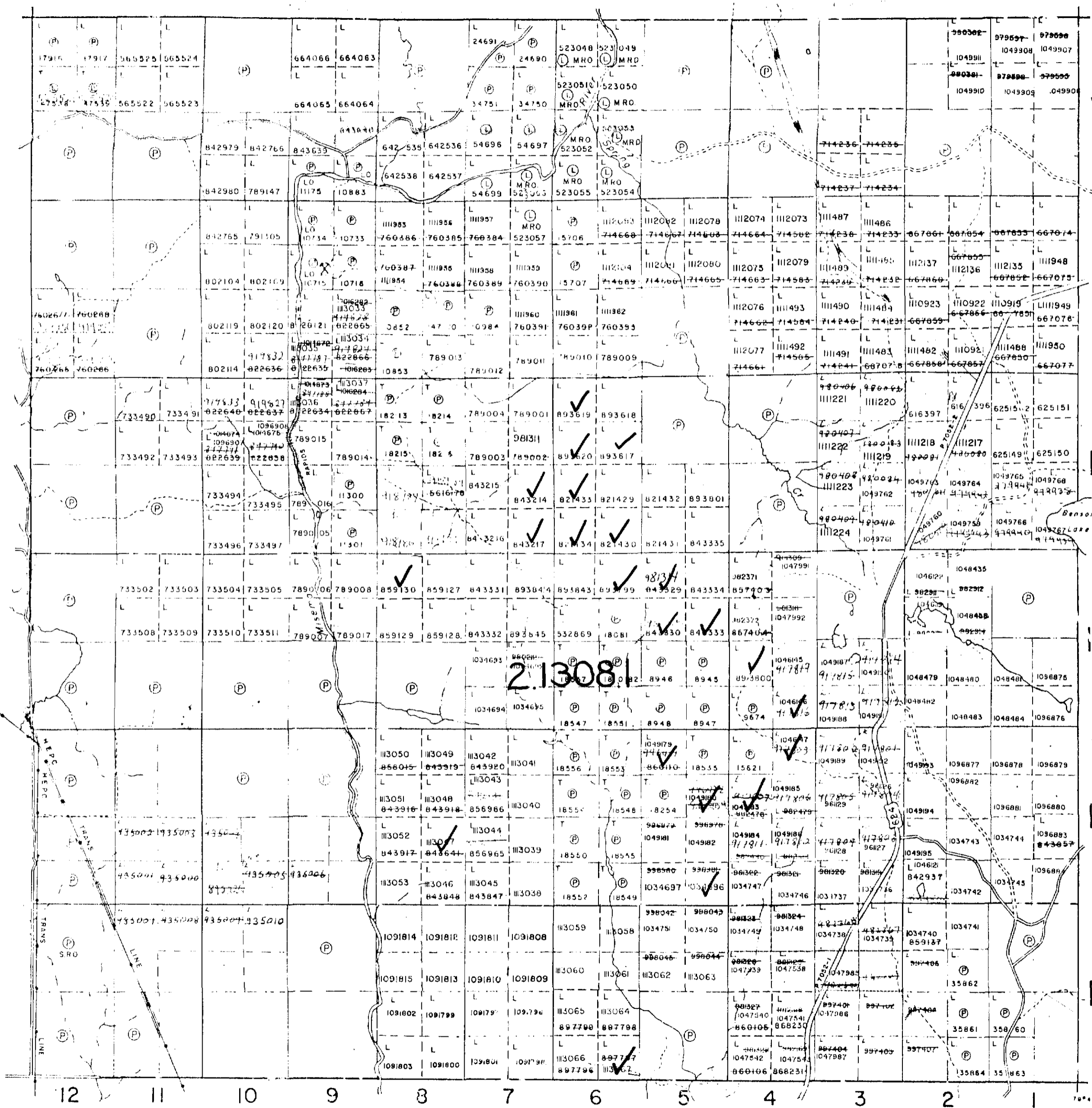
THIS TOWNSHIP / AREA FALLS WITHIN THE
TIMISKAMING MANAGEMENT UNIT
AND MAY BE SUBJECT TO FORESTRY OPERATIONS.
THE MNR UNIT FORESTER FOR THIS AREA CAN BE
CONTACTED AT: P.O. BOX 129
SWASTIKA, ONT.
POKITO
705-642-3222

LEGEND

- PATENTED LAND (P or C)
 - PATENTED FOR SURFACE RIGHTS ONLY (S)
 - LEASE (L)
 - LICENSE OF OCCUPATION (O)
 - CROWN LAND SALES (C.S.)
 - LOCATED LAND (Loc.)
 - CANCELLED (C)
 - MINING RIGHTS ONLY (M.R.O.)
 - SURFACE RIGHTS ONLY (S.R.O.)
 - HIGHWAY & ROUTE NO. (Hwy/Route)
 - ROADS (Road)
 - TRAILS (Trail)
 - RAILWAYS (Railway)
 - POWER LINES (Power Line)
 - MARSJ OR MUSKEG (Marsj/Muskeg)
 - MINES (Mine)
- * used only with summer resort, locations of when space is limited

PACAUD TP.

SKEAD TP.



TOWNSHIP OF
CATHARINE
DISTRICT OF
TIMISKAMING
LARDER LAKE
MINING DIVISION
SCALE: 1 INCH = 40 CHAINS (1/2 MILE)

DR. ...
DATE JULY 1986 PLAN NO. **G-3615**

