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MINING LANDS SECTION

REPORT

OF

GEO-CHEMICAL SURVEY & PROPERTY EVALUATION

OF

CASAN MINING LTD.

DOBIE MINERAL CLAIMS

GAUTHIER TOWNSHIP , TIMISKAMING DISTRICT

LARDER LAKE MINING DIVISION

FOR THE YEAR 1979-1980

Date: October 20, 1980

Prepared by:

CANDALE MINING MANAGEMENT SERVICES LTD.

G. L. ROBERTS, P.ENG.M.E.I.C PRESIDENT

2,2975

1-1

#### GENERAL

This report describes the results of a program of extensive soil sampling and assaying conducted and carried out under the supervision of Candale Mining Management Services Ltd. covering an 18 claim group property of Casan Mining Limited located in Gauthier township, East Kirkland Lake gold area, Ontario. The work was carried out by the writer and his assistants in June, July, August, and September of 1978, 1979, and 1980, using a line grid originally established on the property in the fall of 1976 and which had to be extensively restaked.

#### SURVEYED CLAIM AREA

The 18 claims covered by this report are continuous and are identified as follows;

L-482773	L-440934
L-482774	L-440935
L-482775	L-440936
L-482776	L-440937
L-482777	L-440938
L-482778	L-440939
	L-440940
	L-440941
	L-440942
	L-440943
	L-440944
	L-440945



#### LOCATION AND ACCESS

The property is located at the north central part of Gauthier Township, one mile north of Dobie, tying onto the north of Upper Canada Mine. It extends northwesterly with its northwest part adjoining to the northeast of Crestland Mines Limited, formerly Northland Mines Limited.

Access was made by truck from Kirkland Lake via
Highway 66 to Northlands Park, and by a bush road from Northlands Park eastward through the No. 1 shaft area of Northland
Mines to the bush road which runs across the central part of
the property.

#### PREVIOUS WORK.

In the winter of 1976-77, the company conducted a program of geophysical surveys on this 18 claim group. The surveys were carried out by Cana Exploration Consultants Limited, and the results were described by Dr. S.S.Szetu in a report dated January 20, 1977. Readers are referred to this report for the geophysical data and also to the history of the property.

It should be noted here that the airborne E.M. anomaly referred to in said report was conducted by Upper Canada Mines Limited, apparently prior to May, 1966, and the ground follow-up E.M. surveys were conducted in March and May, 1966 by Moreau Woodward & Company Limited of Toronto. While the first survey failed, the second survey succeeded in detecting a



conductor zone at an inferred depth of over 210' on the ground held under option by Upper Canada. The conductor zone opens to the west to a patented claim then held by Northland.

Data in the office of the Resident Geologist at Kirkland Lake also showed one hole drilled in 1966 on the then known as Taylor Option, logged by J.G.Bragg, Chief Geologist, Upper Canada Mines Limited. This hole was located at the central part of then Claim 79866 across the eastern section of the airborne E.M. anomaly, which showed stronger conduction to the west. The hole cut a narrow band of graphite sediments with occasional bands and nodules of pyrite at a considerable depth.

Another hole was drilled to a shallow depth of 148.6' at a location further east by the then owner of the property, Mr. T. C. Taylor, for assessment work purposes. According to Mr. Taylor, the drill site found near L28N, 1450' E. was the setup for this shallow hole.

As Casan Mining Limited now has claims covering the full lengths of the airborne conductor, including the unchecked and apparently more outstanding western section, detailed information about these drill holes and other relavent data will be added to the company's compilation map for further evaluation. During the month of June 1978 the company, Casan Mining Limited, conducted two programs, a geological survey and a radiation survey on this 18 claim group. The surveys were carried out by Cana Exploration Consultants Limited under the direction of Dr. S.S.Szetu and the results are described by the author, Dr. S.S. Szetu in his reports dated July 20, 1978 and August 21, 1978.

The geological report produced for Casan Mining Limited by Cana Exploration Consultants Ltd. and written by Dr.S.S.Szetu dated July 20, 1978 requested that detailed surface sampling of the claims held by this company should be carried out before any drilling exploration be undertaken.

Casan Mining Limited contracted with Dynamic Construction

Ltd. of Toronto to undertake the excavation of trenches and

surface blasting, trenching and drilling that would allow detailed

sampling of the rock areas available for exploration. This work

was carried out in 1978 and submitted in our report dated December

10, 1978.

#### TOPOGRAPHY

Most of the area covered by the claims involved is covered with glacial sand overburden to depths of up to 150'. Few areas have rock exposed on or near the surface which would allow sampling to a definitive extent. Many swamps and a few creeks are present. Sand eskers rising to 100' are common. A section map of the topography is shown on the map of Appendix III.

#### GEOLOGY

The north part of the property is mostly underlain by

Keewatin acid volcanics and the central part is underlain by

Timiskaming sediments with two narrow zones of interbanded acid

volcanics. The south west part of the property is underlain by

Algoman Syenite and porpery syenite, intruding the sediments.

The volcanics and sediments are steeply dipping and apparently schistosed to various degrees. The contacts between the various rock formations are all covered by overburden.

#### SURVEY METHODS

A line grid spaced at 400 foot intervals was established. These picket lines and an additional two detailed lines covering the central part of the original aeromagnetic anomoly were at a north-east south-west direction turned off from two base lines established at N45°W. Stations were chained at 100 foot intervals with pickets painted red at the top section.

A six foot length 1-1/2 inch diameter auger was used to obtain the sample. To the best of our ability the auger was pushed through the muskeg until it encountered firm soil and from this layer a six inch sample was extracted.

This procedure was carried out at each of 845 stations that had been laid out on the grid.

#### CHEMICAL ANALYSIS - GENERAL

The chemical analysis of the samples was given to
the Don Mills firm of X-Ray Assay Laboritories Ltd. who utilize
a method of analysis using a nuclear reactor to detect the resence
of gold in the samples. The samples of humas submitted are
compressed into wafers and sent for radiation alongside the core
of the McMasters Pool - Type reactor. The reactor adds extra

neutrons to the elements in the sample creating what is known as isotopes. The characteristic wavelengths of the gamma rays given off as these isotopes deactivate are analysised on a gamma-ray spectrometer giving a reading on the material in the sample. This type of analysis is very precise. The presence of gold in a sample can be measured down to one part per billion. In older techniques, which required burning the sample, much of the gold disappeared in the burning.

#### CONCLUSIONS AND RECOMMENDATIONS

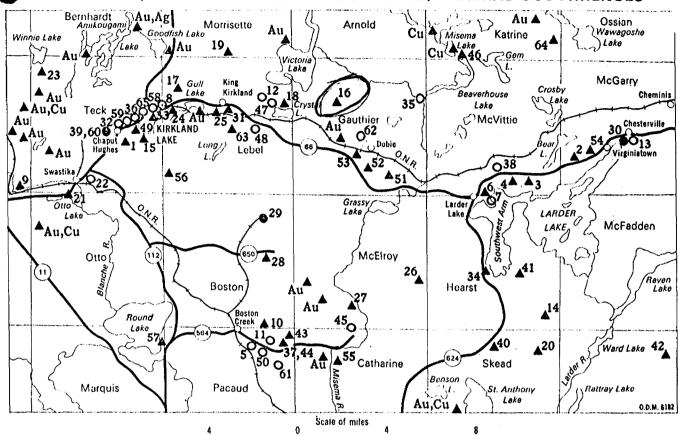
Results of the assay have been plotted in ppb on the accompanying map in Appendix V. We have joined the higher readings in an attempt to show the anamolic areas that have surfaced and to correlate their locations in respect to those anamolic areas which were obtained in the E.M. Survey.

As will be seen, some very high readings have been obtained and generally they correspond to the areas which have shown promise as E. M. anamolies.

It is these areas which will be assessed further and drilled at a future date.

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#### PROPERTIES, PAST AND PRESENT PRODUCERS, MINERAL OCCURRENCES



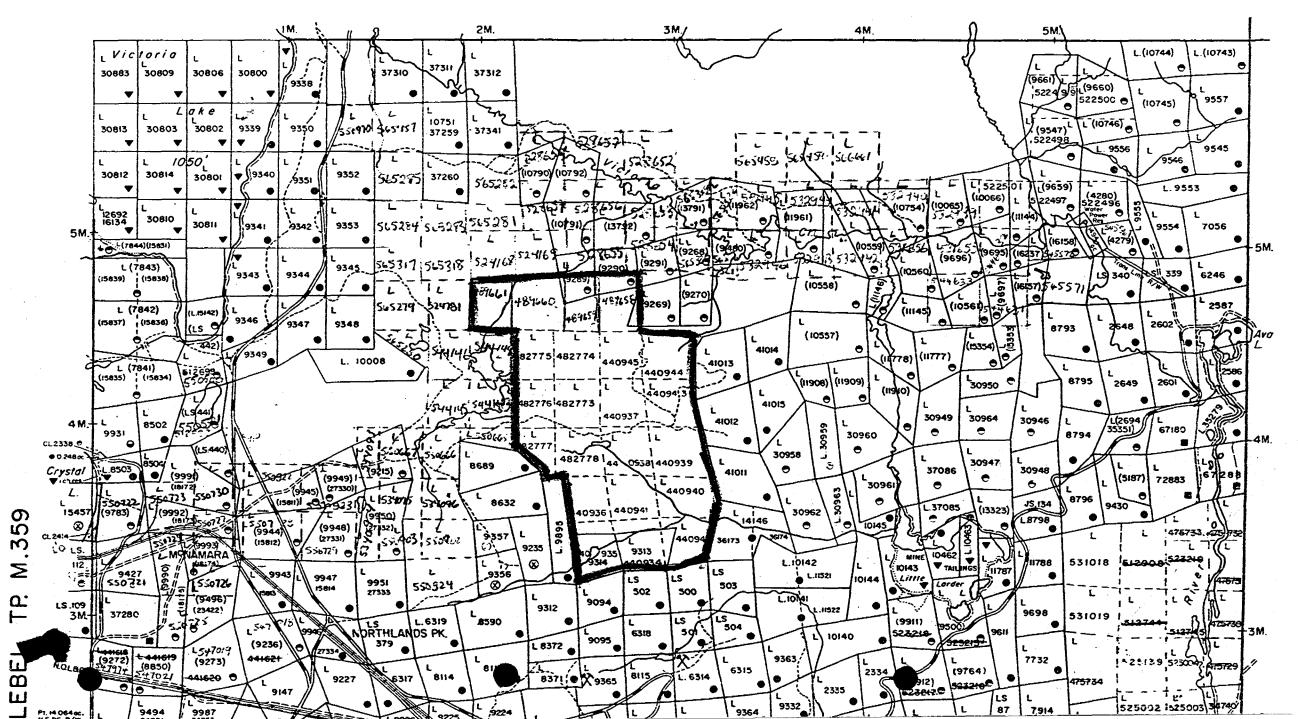
▲ Oc	currence
Pro	ducer
i Pas	st Producer
Ag - Silver	Pb - Lead
Au - Gold	U - Uranium
Cu - Copper	Zn – Zinc
Fe - Iron	

1.	Amalgamated Kirkland Mines	Λu
	Amalgamated Larder Mines	
2.	Barber-Larder occurrence	Αu
3.	Cheminis occurrence	Λu
4.	Fernland occurrence	Λu
5.	Amity mine	$C\mathfrak{u}$
	Argosy Mining Corp.	
6	New Laguerre occurrence	Αu
7.		Αu
	Associated Areadia Nickel Corp.	7 • • •
о.		A
	(Toburn mine)	Αu
9.	Baldwin Consolidated Mines	Λu
10,	Bargnesi Mines Cu	,Λu
11.	Barry-Hollinger mine	Au
12.	Bideop Mines (Bidgood mine)	Λu
13.		Αu
	Combined Larder Mines, The	Λu
		Λu
15.	Consolidated Canorama Explora-	
	tions (Hudson-Rand)	Αu

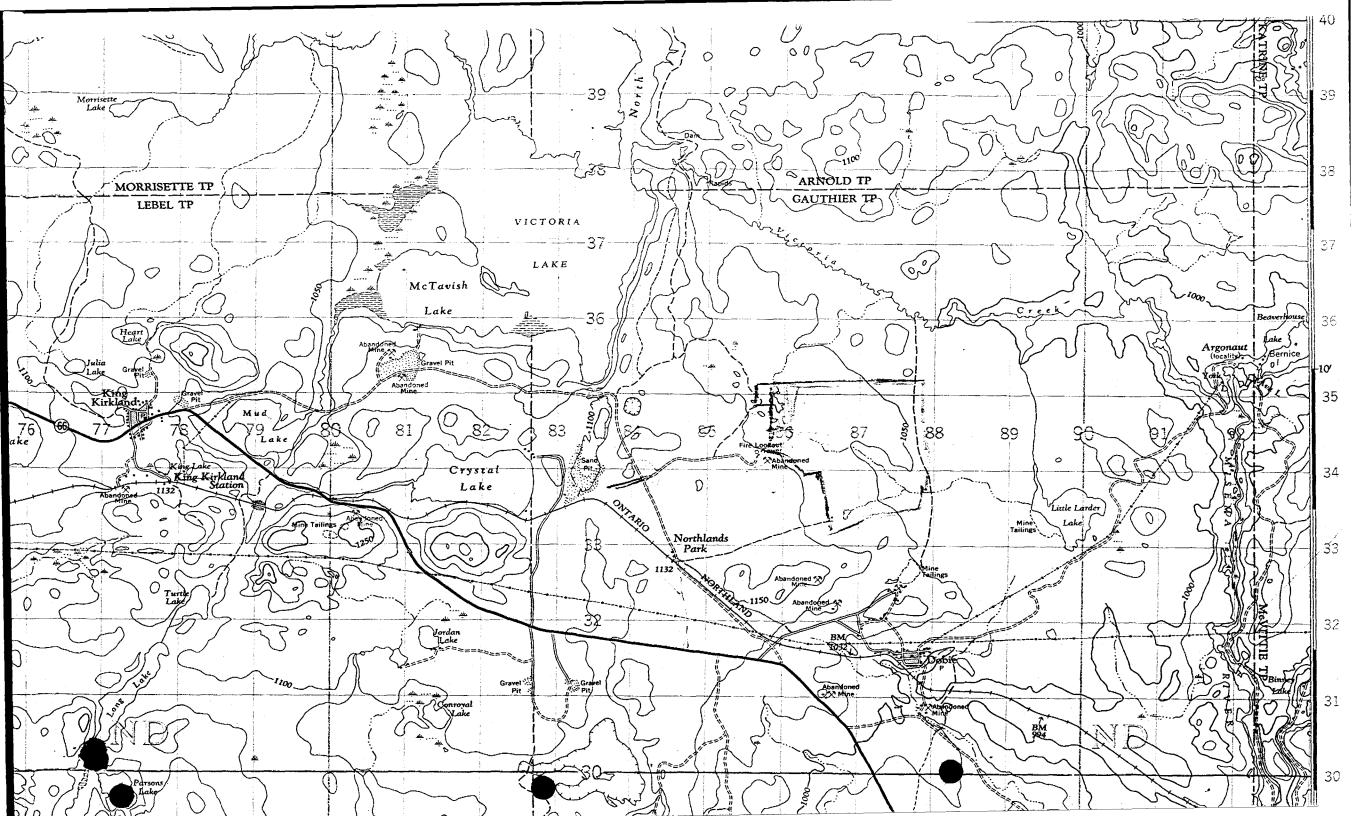
16 Consolidated Northland Mines Au
17. Continental Kirkland Mines Au
18. Crystal Kirkland (Max Kaplan) . U,Au
19. Dolsan Mines
(Mallard Lake) Pb,Ag,Cu
20. Fabis (LaFond) occurrence Au
Gateford Mines
21. Crescent occurrence Au
22. Golden Gate mine Au
23. Gauthier (Winnie Lake) Cu,Zn
24. Glenora (Albert Kokotow) Au
25. Harrison (Kirkrovale) Au
26. Hearst-Larder (Detfield
Lowe and Emil Chorzepa) Zn,Pb,Cu
27. Hennesey occurrence Au
28. Jalore Mining Co Fe,Pb,Zn
29. The Adams Mine Fe
30. Kerr Addison Mines Au
31. King Kirkland Gold Mines Au
32. Kirkland Minerals Corp. (Kirkland
Lake gold mine) Au
33. Kirkland Townsite Gold Mines Au
34. Korola-Larder Mines Au
35. Upper Beaver Mine (Argonaut)
(Lake Beaverhouse) Cu,Au
36. Lake Shore Mines Au
37. Lebon Gold Mines Au
38. Lomega (Omega) mine Au
39. Macassa Gold Mines Au
40. Manor occurrence Au
41. Martin-Bird Gold Mines Au 42. Mathias occurrence
42. Mathias occurrence Cu

12	Miller occurrence	Λu
44.		Au
45.		'Nu
4.7.		Λu
46.		Λu
••••	(Forwood) Au.	c
47		Au
		Au
	Northgate Exploration	Λu
47.		Au
50.		Cu
51.		Cu
<i>J</i> 1.		Αu
52		Au
53.		r u
.,.,.		Λu
54.		Λu
55.		Λu
	Shelp (Dane Copper)	
	Sheroomae Mining Corp.	- •
	(Round Lake cooper) Cu,	Zn
58.		Λu
	Teck Corporation (Teck-Hughes	,
		Au
60.	•	Λu
	Trethewey-Ossian mine (Mrs. Claire Cameron)	Cu
62.		Au
	Upper Canada Mines	,
	• •	Αu
64.		Cu
65.		Àι

#### ARNOLD TP. M.321



VITTIE TP M.370



LIMITED

1885 LESLIE STREET

DON MILLS, ONTARIO M3B 3J4

(416) 445-5755

### Certificate of Analysis

NO. 4783

PAGE

1 of 11

TO. Casan Mining Limited,
Attn: G.L. Roberts,
Suite 220, 12 Richmond St. East,
Toronto, Ontario.
M5C 1N1

RECEIVED

May 10, 1979

INVOICE NO.

4783

SAMPLE(S) OF

823 soil

SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

					!
Sample	Au ppb	Sample	Au ppb	Sample	Au ppb
172 73 74 75 76 77 78 79 180	18 15 * 14 * 8 3 3 8 12 *	327 28 29 330 31 32 33	31 X 3 11 * 6 2 6 5	355 56 57 58 59 360 61 62	7 4 7 1 5 4 9
265 66 67 68	1 1 3 X	35 36 37 38 39	1 X 8 * 20 4	362B 362C 63 64	35 15 * 14 6 *
69 270 71 72	19 1 4 3	340 41 42 43	x x 1 3	65 66 67 68 69	290 * 92 * 13 10
73 74 75 76 77	6 5 X 2	44 45 46 47	20 4 * 3 2	370 71 72 73	30 * 19 12 18 17
78 279 321 322	6 58 * 2 3 14	48 49 350 51 52	1 * 13 * 4 1	74 375 584 85 86	8 8 24 19
325 326	2 X	53 354	1.0 *	87 588	10 7 7 *

X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY

DATE June 8, 1979

LIMITED

45 LESMILL ROAD

DON MILLS ONTARIO M3B 2T8

445-5755

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PAGE

2 of 11

Casan Mining Limited Attn: G.L. Roberts

Sample	Au ppb	Sample	Au ppb	Sample	Au ppb
589	х	15	2	42	4
590	12	15A	4	43	x
91	. 14	16	5 *	44	52
92	8	17	25	45	ī
593	' X	18	X	46	6
598	1.3	1.9	N.S.S.	47	1 *
99	12	20	N.S.S.	48	300 *
600	7	21	N.S.S.	49	7
01	10	22	N.S.S.	50	N.S.S.
02	X	23	N.S.S.	51	N.S.S.
03	35 *	24	<b>2</b> 2	52	N.S.S.
04	1	25	1 *	53	X *
05	29	26	12	54	X *
606	X *	27	X	55	X *
1	X	28	X *	56	X
2	1	29	1	57	4
3	X	30	X	58	7
4	X	31	4	59	3
5	3	32	1	60	3
6	11	33	X	61	1
7	N.S.S.	34	7	62	2
8	N.S.S.	35	X *	63	X
9	N.S.S.	36	N.S.S.	64	4
10	N.S.S.	37	2	65	5 *
11	5	38	N.S.S.	66	2
12	1	39	N.S.S.	67	2 42 *
13	1 *	40	N.S.S.	68	21
14	11	41	N.S.S.	69	21 5 *

X-RAY ASSAY LABORATORIES LIMITED

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DATE June 8, 1979

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45 LESMILL ROAD

DON MILLS ONTARIO M3B 2T8

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3 of 11

Casan Mining Limited, Attn: G.L. Roberts

Sample	Au ppb	Sample	Au ppb	Sample	Au ppb
70	5 *	98	• **		Will the description of the second
71	4	99	12	126	2 *
72	· i	100	X	27	2
73	. 2		7	28	8
74	2	01	5	29	X X *
75	N.S.S.	02	8	130	X *
76	N.S.S.	03	1	31	2 3 10
<b>1</b> 77		04	64	32	3
78	N.S.S.	05	9	33	10
79	N.S.S.	06	10	34	24
	2 5	07	6	35	X
80		08	1	36	16
81	X	09	X	37	2 *
82	1	110	X	38	29
83	X	11	X	39	X
84	X *	12	40 *	140 .	<b>1</b> 5
85	X	13	14	41	X
86	X	14	X	42	X *
87	X	15	X *	43	X *
88	5 3	16	X	44	
89	3	17	X	45	2 2 *
90	X *	18	11	46	x *
91	X	19	X	47	
92	X	120	X *	48	x
93	X	21	3	49	2
94	X	22	x *		X
95	1	23		150	3 *
96	x	24	3 * 5	51	7
97	<b>^</b> 7	125		52	2
	•	1.20	N.S.S.	153	X

X-RAY ASSAY LABORATORIES LIMITED

June 8, 1979

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DON MILLS ONTARIO M3B 2T8

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Sample	Au ppb	Sample	Au ppb	Sample .	Au ppb
154 55	X	191	44 3 *	219	4
55	1	92	. 3 *	220	4 15
56	. 1 2	93		21	10
57		94	X X	22	4
58	` X	95	X	23	
59	2 .	96	3	$\overline{24}$	9 8 5 *
160	2 · 2 ·	97		25	5 *
160 61	4	98	X 350 *	26	x *
62	X	99	10	27	x *
63	X	200	X *	28	X * X *
64	10	01	1.00	29	×
65	X	02	X *	230	X 2 3 33
66	X	03	X * X *	31	3
67	19	04	170	32	33
68	4	05	X	33	X
69	4 2 1 *	06	. X *	34	3
170	1 *	07	X *	35	3 5
171	X	08	8	36	x
181 82	X	09	8 6	37	61
82	X	210	3	38	X
83	Х Х *	11	X *	39	5
84	X	12	1	240	x
85	X	13	Х	41	6
86	X	14	3	42	x
87	X	15	X	43	100
88	2	16	X	44	X *
89	X	17		45	300
190	х 2	218	2 5	246	X

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4783 NO.

PAGE 5 of 11

Casan Mining Limited, Attn: G.L. Roberts

Sample	Au ppb	Sample	Au ppb
			CO-M Th. Allegany, harries have you
247	X	290	3
48	X *	91	X
49	3 * 2 *	92	4 *
250	, 2 *	93	16
51	4	94	9
52	600 <b>*</b> ′.	95	14 *
53	25	96	16
54	110	97	X
55	3	98	6
56	65	99	X
57	24	300	1
58	33 *	01	. 9
59	30	02	1 9 17
260	X	03	2
61	1	04	1
62	X	05	1
63	X	06	2 1 1 1 5 *
264	X	07	ĩ
280	30	08	5 *
81	X	09	N.S.S.
82	X	310	N.S.S.
83	2	11	23 *
84	X *	12	2
85	5	13	190
86	5 4	14	21
87	X	15	21
88	8	16	īī
289	X	317	10
			•

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June 8, 1979

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ASSAYERS - ANALYTICAL CHEMISTS

LIMITED

45 LESMILL ROAD

DON MILLS ONTARIO M3B 2T8

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NO. 4783

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Sample	Au ppb	Sample	Au ppb	Sample	Au ppb
				4	**************************************
318	1	405	710 *	433	18
19	X	06	1220 *	34	11
320	. 7	07	13	35	9
323	15	08	N.S.S.	36	18
324	' 5	09	X	37	N.S.S.
376	<b>26</b> ;	410	39	38	11
77	21	11	X	39	72
78	2	12	X	440	16
79	48	13	X *	41	16
380	34	14	180 *	42	43
81	2	15	21	43	j.5 *
82	N.S.S.	16	X	44	14
383	580 *	17	N.S.S.	45	27 *
390	56	18	28	46	8
91	26	19	54	47	14
92	17	420	50 *	48	6
93	34	21	15	49	11
94	17	22	180	450	7
95	8	23	24	51	1.2 *
96	2	24	22	52	39
97	7	25	24	53	6
98	1	26	28	54	26
99	4 *	27	5	55	N.S.S.
400	1	28	35	56	N.S.S.
01	1	29	13	57	N.S.S.
02	N.S.S.	430	8	58	N.S.S.
03	N.S.S.	31	21	59	5
404	N.S.S.	432	16	460	N.S.S.

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Sample	Au ppb	Sample	Au ppb	Sample	Au ppb
461	N.S.S.	489	2 *	517	×
62	N.S.S.	490	5	18	X
63	N.S.S.	91	56 *	19	X
64	<b>.</b> 89	92	N.S.S.	520	1
65	9 *	93	1	21	. X
66	N.S.S.	94	1	22	N.S.S.
67	40 *	95	3	23	N.S.S.
68	10	96	5	24	N.S.S.
69	100	97	2	25	N.S.S.
470	22	98	2	26	N.S.S.
71	6	99	6 -	27	N.S.S.
72	21	500	1 *	28	N.S.S.
73	25	01	X	29	X *
74	8	02	6 *	530	3
75	56	03	18	31	5
76	9	04	1	32	2
77	N.S.S.	05	6	33	3 5 2 5 *
78	7	06	62	34	11 *
79	5	07	3	35	9
480	8	08	7	36	4
81	32	09	8 *	37	100 *
82	110	510	2	38	N.S.S.
83	N.S.S.	11	1.0 *	39	93
84	43	12	3 *	540	13 *
85	24	13	4 *	41	N.S.S.
86	100 *	14	1.6	42	N.S.S.
87	N.S.S.	15	2	43	22
488	10	516	4	544	2

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Sample	Au ppb	Sample	Au ppb	Sample	Au ppb
545	13	573	x *	610	
46	45 *	74	250 *	619	4
47	. 45 * 2 . 7	75	N.S.S.	620 21	x,
48	, 7	76	92 *	22	17 *
49	1. *	, , , , , , , , , , , , , , , , , , ,	N.S.S.	23	
550	10	78	170 *	24	X
51		79	10 *	25	X X
5 <b>2</b>	4 5	580	x *	26	^ <sub>1</sub>
53	4 *	81	2	27	x
54	4 * 2 *	82		28	25 *
55	4	83	· · · · · · · · · · · · · · · · · · ·	29	25 " X
56	1	584	X X X *	630	^1
57	7	594	24	31	N.S.S.
58	2	95	X *	32	X
59	17 *	96	1	33	^1
560	4	597	x	34	2
61	1 *	607	48 *	35	x
62	N.S.S.	08	96 *	36	X
63	37 *	09	X *	37	N.S.S.
64	22 *	610	X *	38	X *
65	X *	11	38 *	39	X
66	X *	12	N.S.S.	640	X
67	1.8	13	36 *	41	X
68	2	14	X *	42	4
69	X	15	1 *	43	3
570	7 *	16	6	44	6
71	X	17	3	45	x *
572	N.S.S.	618	7	646	X *

X-RAY ASSAY LABORATORIES LIMITED

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#### DON MILLS ONTARIO M3B 2T8

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Casan Mining Limited, Attn: G.L. Roberts

Sample	au ppb	Sample	Au ppb	Sample	Au ppb
	<del></del>			Militaria de La company de la	the same of the same of the same of
647	4 *	675	44 *	703	X
48	10 *	76	2	04	8 *
49	` 36 <b>*</b>	77	67 *	05	1
650	· X	78	20 *	06	15
51	Χ .	79	N.S.S.	07	35 *
52	X	680	N.S.S.	08	X *
53	N.S.S.	81	N.S.S.	U9	X *
54	10	82	N.S.S.	710	23 *
55	N.S.S.	83	N.S.S.	11	1
56	N.S.S.	84	7	12	N.S.S.
5 <b>7</b>	N.S.S.	85	ı	13	N.S.S.
58	3	86	1	14	44 *
59	14 *	8 <b>7</b>	4 *	15	X *
660	24 *	88	X	1.6	X
61	14	89	X	17	15 *
62	18	690	X	T8	N.S.S.
63	N.S.S.	91	X	19	X *
64	15 *	92	13	720	x *
65	5	93	15 *	21	X
66	180 *	94	3	22	94 *
67	13	95	x	23	N.S.S.
68	X *	96	3	24	N.S.S.
69	X	97	x	25	220 *
670	56 *	98	ïo *	26	110 *
71	35 *	99	9	27	220 *
72	4	700	x	28	N.S.S.
73	x *	01	4	29	110 *
674	29 *	702	6	730	130 *
0/3	23	102	υ	730	T 2 0

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45 LESMILL ROAD

DON MILLS ONTARIO M3B 2T8

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#### Certificate of Analysis

NO. 4783

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Casan Mining Limited, Attn: G.L. Roberts

Sample	Au ppb	Sample	Au ppb	Sample	Au ppb
			***************************************	Marine Committee of the	***********
731	89	759	3	787	14 *
32	X	760	3 7	88	40 *
33	· 86 <b>*</b>	61	x *	89	X *
34	19 *	62	N.S.S.	790	170 *
35	16 *	63	29 *	91	X *
35 36	210 *	64	2	92	 10 *
37	21 *	65	22 *	93	8
38	110 *	66	74	94	4 *
39	X	67	52 *	95	150 *
740	20 2	68	130 *	96	120 *
41		69	X	97	9 *
42	X *	770	3	98	8 *
43	X *	71	3	99	X *
44	X *	72	4	800	5
45	2	73	4 2 5	01	X *
46	X *	74	5	02	4
47	64	75	X	<b>U</b> 3	
48	X *	76	3	04	X X X X
49	3	77	67 *	05	X
750	8	78	24 *	06	X
51	5	79	26 *	07	1 *
52	4	780	31 *	08	40
53	1	81	X *	09	10 *
54	9	82	X	810	3
55	9 3	83	X	11	40 *
56	X *	84	8	12	68 *
5 <b>7</b>	X	85	4 *	1.3	x *
758	8	786	10 *	814	6

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Sample	Au ppb
815	0
	8
16	X
17	. 18
18	, 5
19	N.S.S.
820	N.S.S.
21	89
22	59 *
23	X
24	3
825	9 *

Note: X - less than 1 ppb Au

\* - no sample left for repeat analysis.

N.S.S. - not sufficient sample

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