

REPORT ON EXAMINATION OF MINERAL SHOWING

McCLUSKEY PASS AREA, YUKON

Latitude $64^{\circ}35'N$ Longitude $134^{\circ}09'W$

NTS 106D/9

LOCATION

The mineral occurrence examined is located on the south east slopes of an isolated peak 13 kilometres west of McCluskey Lake. Elevation of the mineral occurrence is about 1524 metres above sea level in an area above tree line.

PHYSIOGRAPHY

The area surrounding the mineral showing consists of a series of northwest to west trending steep sloped ridges and peaks, part of the Rackla Range, rising above broad open valleys. The valleys lie at elevations ranging from 910 metres at McCluskey Lake to 1465 metres at McCluskey Pass. Light stands of spruce or other evergreen trees extend part way up the valley from McCluskey Lake but die out approximately 7 kilometres west of the mineral showing examined. There is very little vegetation other than moss and minor grass above this point and the valleys are relatively smooth and open.

On the west and north sides of certain rock ridges, moraine and small rock glaciers mark the apparent south and east margins of probably stagnant glacier ice.

REGIONAL GEOLOGY Figure 2

The Rackla Range is made up largely of Proterozoic sediments consisting of a thick sequence of dark weathering shale, argillite, siltstone and quartzite overlain by another thick succession of orange weathering dolomites. See GSC Memoir 364 by L.H. Green for maps and complete description.

LOCAL GEOLOGY Figure 3

The isolated peak hosting the mineral occurrence examined consists of finely bedded siliceous siltstones which dip at approximately 45° to 50° east and strike northerly. No significant local folds or faults were observed in the immediate vicinity but there is an apparent regional steep dipping north striking system of jointing or cleavage. Extensive exposure is seen on the steep mountain slopes and no significant variation was seen on the mountain sides to the east, west or south. No intrusive bodies are apparent although diorite and gabbro intrusions are common within these Proterozoic formations some miles to the south and southwest.

The mineral occurrence examined consists of parallel to enechelon dykes tentatively identified as syenite. These dykes strike north and dip at about 60° west and, in several places, exhibit sharp fragments of siltstone wall rock indicating forcible intrusion. There is a one metre wide parting of sheared and slightly serpentized siltstone between the two main outcropping dykes. The dykes weather a rusty brown to dark reddish brown, readily visible against the black enclosing sediments, due to siderite mineralization within the dykes. On a freshly broken surface the siderite is generally yellowish grey with an appearance similar to sphalerite. Crystal faces range up to 3 centimetres.

Quartz wisps, stringers and irregular small masses are common and their white surfaces contrast strongly with the dark rusty surface of the ankerite.

Within the main syenite dykes relatively narrow zones of somewhat brecciated material host minor chalcopyrite, malachite mineralization. Certain hand specimens seem heavier than normal suggesting the presence of some barite although none was positively identified. The north end of the most southwesterly zone of syenite examined contains minor amounts of erythrite.

Several selected character samples were collected and submitted for assay. The following are descriptions of those samples: -

<u>Sample No.</u>	<u>Description</u>	<u>Geochemical Results</u>		
		Au ppb	Ag ppm	Cu ppm
0413T	Sheared, serpentized siltstone parting, no visible mineralization	<5	<0.2	32
0414T	Selected sample of chalcopyrite, pyrite, malachite from main siderite zone.	10	0.6	3870
0415T	Strongly limonitized siderite from north end of southwest en echelon zone. Chalcopyrite, malachite.	360	10.2	10 000
0416T	<u>Syenite</u> from north end of south west en echelon zone with minor chalcopyrite and <u>erythrite</u> .	10	<0.2	647

See attached Certificates of Analysis for complete results.

CONCLUSIONS AND RECOMMENDATIONS

The siderite showing examined does not appear to contain economic mineralization. L.H. Green, Memoir 364, p 139 notes similar mineralization to the northwest at $64^{\circ} 46' N$, $134^{\circ} 38' W$ which contains chalcopyrite. Assay results from the samples collected show trace amounts of gold and silver (10.2 ppm Ag = 0.3 oz/T); anomalous values in arsenic; up to 1% copper, and anomalous values in cobalt. The creeks in the vicinity of the showing are shallow with no significant development of gravel deposits which might host placer deposits. The upper creek valleys appear to have been scoured clean by glaciers.

No further work is recommended on this deposit.

Respectfully submitted,
J.C. Stephen Explorations Ltd.

J.C. Stephen

JCS/ms

J.C. STEPHEN EXPLORATIONS LTD.

McCLUSKEY PASS SHOWING

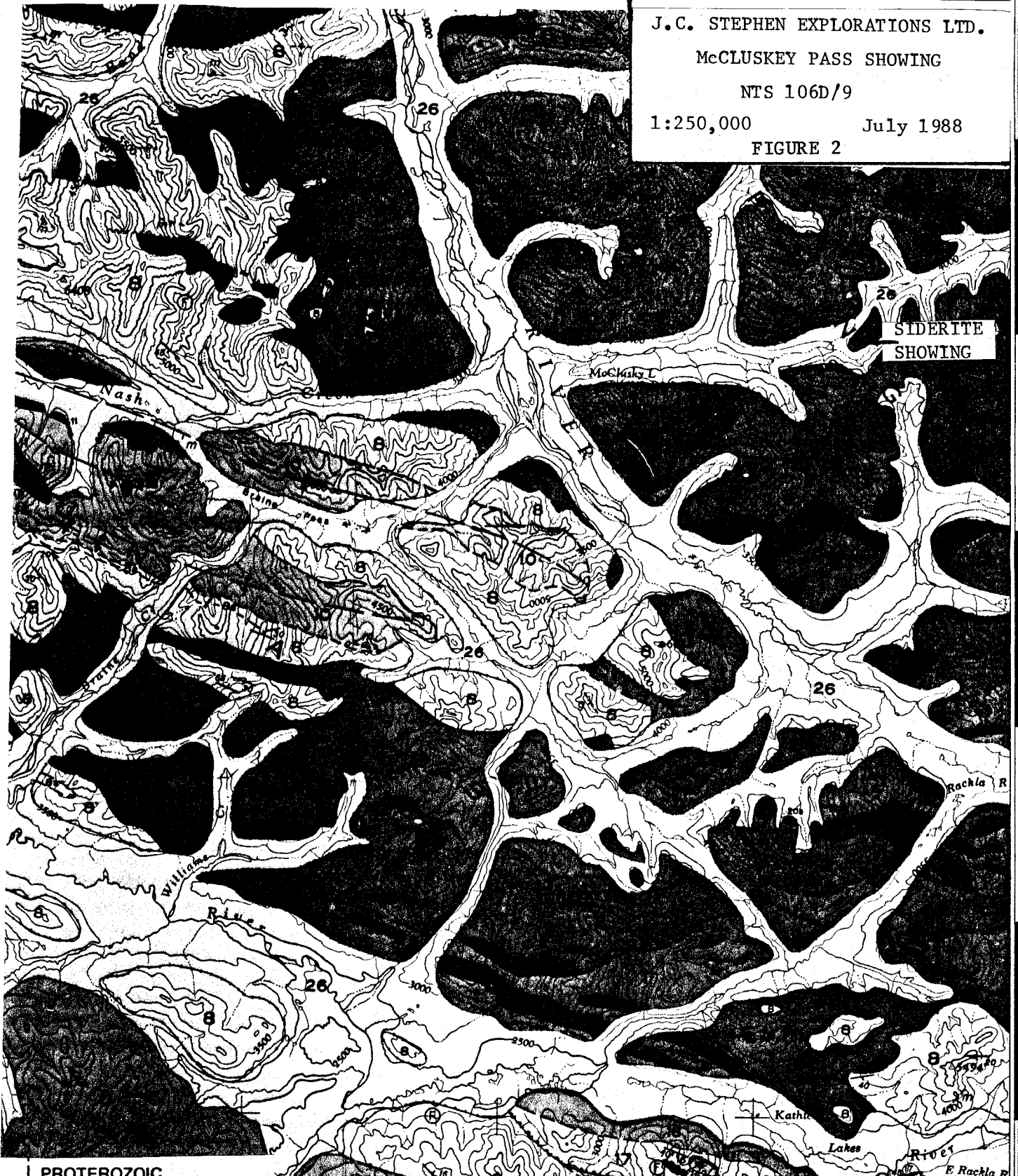
NTS 106D/9

1:250,000

July 1988

FIGURE 2

SIDERITE
SHOWING



PROTEROZOIC



Orange-weathering, platy, grey-green dolomite, dark slate; minor phyllite and quartzite; 2a, pink-, orange- and grey-weathering dolomite, grey and maroon shale, white, green and mauve quartzite, minor conglomerate, mottled green and maroon shale and black limestone; 2b, buff and orange dolomite, dark shale; minor quartzite limestone and conglomerate; 2c, massive cherty and quartzose, grey dolomite; thin-bedded, buff-weathering, grey dolomite; minor black shale and white quartzite; 2d, buff-weathering dolomite-boulder conglomerate; 2e, dark shale and argillite, buff-weathering, grey siltstone; minor buff- to orange-weathering dolomite



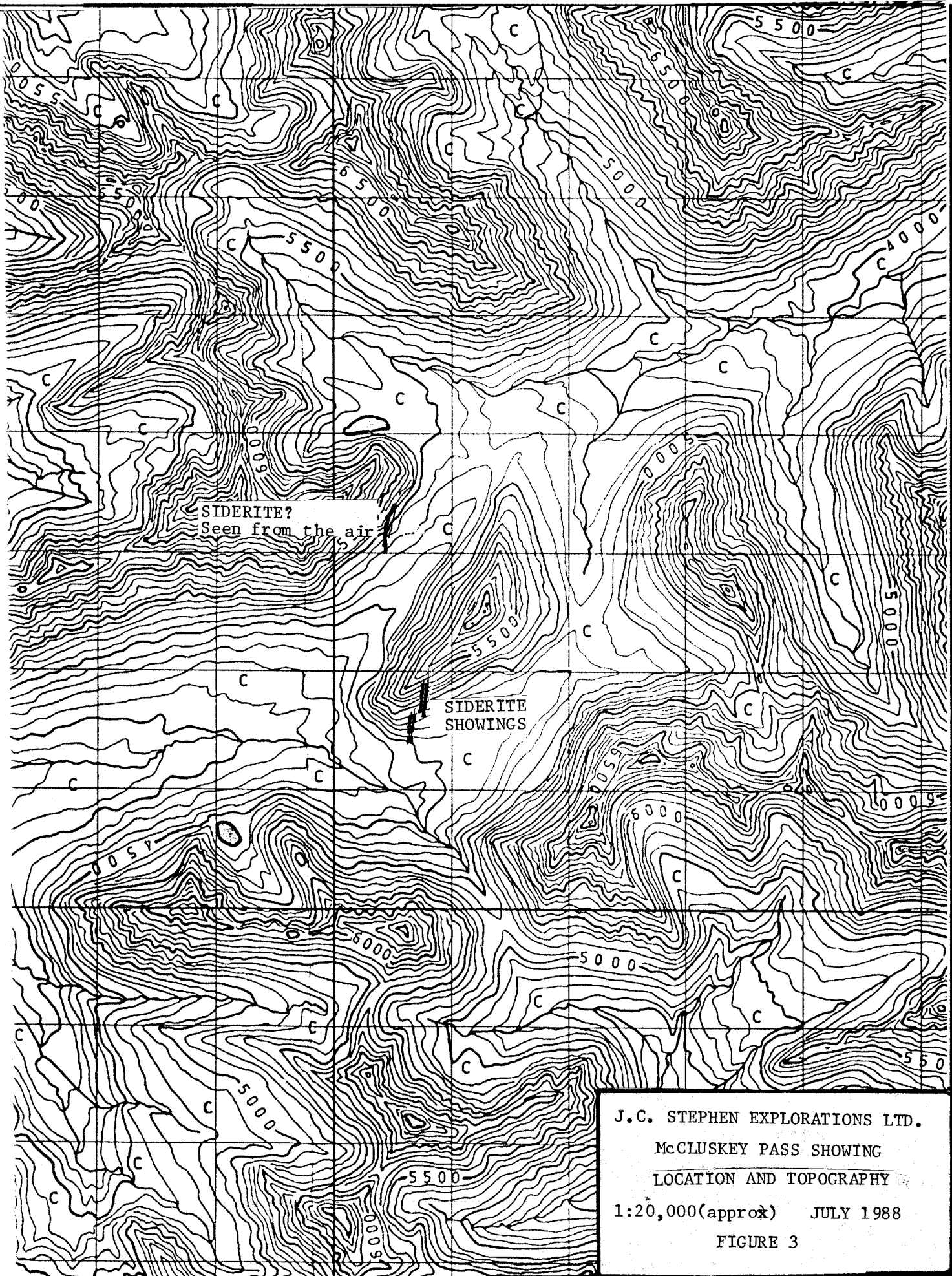
Mainly dark grey, grey-green, and black, thin-bedded argillite, slate, and phyllite; minor grey quartzite, orange-weathering dolomite, and conglomerate; 1a, grey-weathering, thinly laminated, silicified limestone

PRECAMBRIAN

30'

15'

13400'



SIDERITE?
Seen from the air

SIDERITE
SHOWINGS

J.C. STEPHEN EXPLORATIONS LTD.
McCLUSKEY PASS SHOWING
LOCATION AND TOPOGRAPHY
1:20,000(approx) JULY 1988
FIGURE 3



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

To: STEPHEN, J.C. EXPLORATION LIMITED

746 REGAL CRESCENT
NORTH VANCOUVER, B.C.
V7K 2X8

*** INVOICE NUMBER 18818435 ***

BILLING INFORMATION

Date : 14-JUL-88
Project : McCLUSKEY PASS
P.O. # : NONE
Account : AP

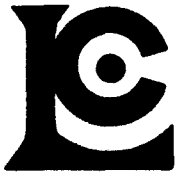
Billing : For analysis performed on
Certificate A8818435

Terms : Net payment in 30 Days
1.5% per month (18% per annum)
charged on overdue accounts.

Please remit payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J-2C1

CHEMEX CODE	ANALYSIS DESCRIPTION	SAMPLES ANALYZED	UNIT PRICE	AMOUNT
100 - G32	Au ppb FA+AA G-32 32 EL.	4	14.25	57.00
Sample preparation and other charges :				
205 -	Rock Geochem - RING	4	3.50	14.00
238 -	ICP aqua-regia digestion	4	0.00	0.00
Total Cost \$				71.00
Client Discount (5%) \$				3.55
TOTAL PAYABLE \$				67.45



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Page No. : 1-A
 Tot. Pages: 1
 Date : 14-JUL-88
 Invoice # : I-8818435
 P.O. # : NONE

CERTIFICATE OF ANALYSIS A8818435

SAMPLE DESCRIPTION	PREP CODE		Au ppb	Al	Ag	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn
			FA+AA	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%
0413 T	205	238	< 5	7.23	< 0.2	40	< 10	0.5	< 2	0.10	< 0.5	31	53	32	4.31	30	< 1	< 0.01	140	11.30	204
0414 T	205	238	10	1.85	0.6	1015	< 10	< 0.5	< 2	0.13	< 0.5	364	113	3870	3.09	< 10	< 1	< 0.01	40	5.89	581
0415 T	205	238	360	0.16	10.2	3620	< 10	< 0.5	18	3.25	< 0.5	934	43	>10000	>15.00	< 10	< 1	< 0.01	10	1.65	2530
0416 T	205	238	10	0.59	< 0.2	1065	< 10	< 0.5	< 2	14.90	< 0.5	616	21	647	4.16	< 10	< 1	< 0.01	< 10	7.89	5360

CERTIFICATION :



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SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
0413 T	205 238	1	0.01	101	80	6	< 5	7	1	< 0.01	< 10	< 10	33	5	25
0414 T	205 238	< 1	0.01	272	100	< 2	< 5	3	1	< 0.01	< 10	< 10	9	5	11
0415 T	205 238	2	0.01	644	< 10	6	5	9	12	< 0.01	< 10	< 10	8	25	30
0416 T	205 238	< 1	0.02	169	90	< 2	5	5	53	< 0.01	< 10	< 10	4	10	14

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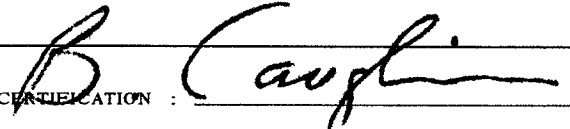
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			FA+AA																		
0413 T	205	238	< 5	7.23	< 0.2	40	< 10	0.5	< 2	0.10	< 0.5	31	53	32	4.31	30	< 1	< 0.01	140	11.30	204
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SAMPLE DESCRIPTION	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
0413 T	205	238	1	0.01	101	80	6	< 5	7	1	< 0.01	< 10	< 10	33	5	25
0414 T	205	238	< 1	0.01	272	100	< 2	< 5	3	1	< 0.01	< 10	< 10	9	5	11
0415 T	205	238	2	0.01	644	< 10	6	5	9	12	< 0.01	< 10	< 10	8	25	30
0416 T	205	238	< 1	0.02	169	90	< 2	5	5	53	< 0.01	< 10	< 10	4	10	14

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Sample preparation and other charges :				
205 - 238 -	Rock Geochem - RING ICP aqua-regia digestion	4 4	3.50 0.00	14.00 0.00
Total Cost \$				71.00
Client Discount (5%) \$				3.55
TOTAL PAYABLE \$				67.45



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V7K 2X8

A8818435

Comments :

CERTIFICATE A8818435

STEPHEN, J.C. EXPLORATION LIMITED
PROJECT : McCLUSKEY PASS
P.O.# : NONE

Samples submitted to our lab in Vancouver, BC.
This report was printed on 14-JUL-88.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	4	Rock Geochem: Crush.split.ring
238	4	ICP: Aqua regia digestion

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
100	4	Au ppb: Fuse 10 g sample	FA-AAS	5	10000
921	4	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
922	4	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
923	4	As ppm: 32 element, soil & rock	ICP-AES	5	10000
924	4	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
925	4	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
926	4	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
927	4	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
928	4	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
929	4	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
930	4	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
931	4	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
932	4	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
933	4	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
951	4	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
934	4	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
935	4	La ppm: 32 element, soil & rock	ICP-AES	10	10000
936	4	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
937	4	Mn ppm: 32 element, soil & rock	ICP-AES	1	10000
938	4	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
939	4	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
940	4	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
941	4	P ppm: 32 element, soil & rock	ICP-AES	10	10000
942	4	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
943	4	Sb ppm: 32 element, soil & rock	ICP-AES	5	10000
958	4	Sc ppm: 32 elements, soil & rock	ICP-AES	1	100000
944	4	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
945	4	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
946	4	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
947	4	U ppm: 32 element, soil & rock	ICP-AES	10	10000
948	4	V ppm: 32 element, soil & rock	ICP-AES	1	10000
949	4	W ppm: 32 element, soil & rock	ICP-AES	5	10000
950	4	Zn ppm: 32 element, soil & rock	ICP-AES	1	10000

J.C. STEPHEN EXPLORATIONS LTD.
746 Regal Cres., North Vancouver, B.C. V7K 2X8

Telephone (604) 988-1545

July 18, 1988

Grandex Resources Ltd.
501 - 700 West Pender Street
Vancouver, B.C.
V6C 1G8

INVOICE # 88719-21

J.C. Stephen	1 day @ \$300.	\$300.00
Analysis		<u>67.45</u>
		\$367.45

Thank you,

J.C. Stephen Explorations Ltd.

MEMO TO FILE:

April 15/88

NEW PROJECT:

WIND RIVER

NTS 106D/9 Nash

J.C.S. met with Paul Nicholls (accountant?) and Zel Mileta of new company?
Crystal Springs at 8:30 a.m. OFFICE 501 - 700 West Georgia Ph:

Proposal: Nichols and Mileta have maps from deceased prospector whose
wife lives on an island in the Stewart River indicating mineral
showings between Bear & Wind Rivers, NTS 106C/12, 106D/9. They
will spend minimum \$25,000 to investigate and stake.

Plan to stake five mile placer leases on drainages and 64 - 80
quartz claims on showings.

JCS to provide geologist and assistant plus camp for 8 people
including a cook.

Mobilization to be by helicopter from Swede & Haggart Creek,
Grandex Placer camp. Radiophone H423024ELSA.

- 1) Meet June 11 for helicopter recce June 12
- 2) Mobilize crew July 10 +

Nest Action: JCS to submit Service Agreement & Project Proposal.

