

2229

GEOLOGICAL AND GEOCHEMICAL REPORT

MEAD CLAIM GROUP

FOUR MILES WEST OF COWICHAN COPPER SUNRO MINE

VICTORIA MINING DIVISION, B. C.

N48°/W124°

BY

TERENCE M. GORDON, P. ENG.

AND

A. S. MALONE, P. ENG.

FOR

QUINTANA MINERALS CORPORATION

PROJECT INITIATION DATE: FEBRUARY 10, 1969

PROJECT COMPLETION DATE: JANUARY 15, 1970

## TABLE OF CONTENTS

	SUMMARY	A
A.	GENERAL	1
	1. LOCATION OF CLAIMS AND ACCESS	1
	2. HISTORY AND PHYSICAL DESCRIPTION	2
B.	GEOLOGY	3
	1. REGIONAL GEOLOGY	3
	2. GEOLOGY OF CLAIMS AREA	3
	3. ROCK TYPES	5
	4. HYDROTHERMAL ALTERATION	8
	5. MINERALIZATION	8
	6. PHOTOGEOLOGY	9
C.	GEOCHEMICAL SURVEY	10
	1. SAMPLING PROCEDURE	10
	2. RESULTS	10
	3. ANALYTICAL METHOD AND AFFIDAVIT	10
	4. ASSAY DATA	10
D.	SUMMARY OF COSTS	26
	List of References and Bibliography	28
APPENDICES		
	I Certificates	29
	II Notice to Group	
	III Certificate of Work	
Pocket Containing		
	<del>#1 - Index Map</del> _____	<i>After Page 1</i>
	#2 1. Base Geology Map	
	#3 2. Copper Geochemical Results	
	#4 3. Nickel Geochemical Results	

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT


NO. **2229** MAP \_\_\_\_\_

## SUMMARY

1. The Mead Claims are situated in the southwestern portion of Vancouver Island approximately four miles west of the former Cowichan Copper Sunro Mine, Victoria Mining Division, British Columbia.
2. Application is made to Group the 112 Claims into four groups known as Mead Groups No. 1-4. The claims cover an area of approximately 9.5 square miles.
3. A field investigation and audit check of previous mapping, photogeological interpretation and investigation of photogeologic targets was performed.
4. A geochemical survey was completed across the entire claim area. A total of 788 soil samples was analyzed for copper and nickel.
5. Assessment work to the value of at least \$12,000 is applied for during the period commencing 1st February 1969 by D. W. Milburn as agent for Quintana Minerals Corporation.

Respectfully submitted,

CHAPMAN, WOOD & GRISWOLD LTD.

  
A. S. Malone, P. Eng.

APPROVED BY:

  
Terence M. Gordon, P. Eng.

January 14, 1970

## A. GENERAL

### 1. LOCATION OF CLAIMS AND ACCESS

The Mead groups of claims are situated in the southwestern portion of Vancouver Island about 50 miles westerly from Victoria and straddle the "West Coast Road" from Jordan River to Port Renfrew some 2 to 7 miles west of the former Cowichan Copper Sunro Mine. Claims are centred around latitude 48°15' S, longitude 124°08' W in the Victoria Mining District, British Columbia.

The claims are enumerated below:

<u>Claim Name</u>	<u>Record Numbers</u>	<u>Number of Claims</u>
Mead 1-22	14802-14853	52
Mead 55-62	14854-14861	8
Mead 65-76	14862-14873	12
Mead 105-112	14874-14881	8
Mead 77-104	14923-14954	<u>32</u>
Total Number of Claims		112

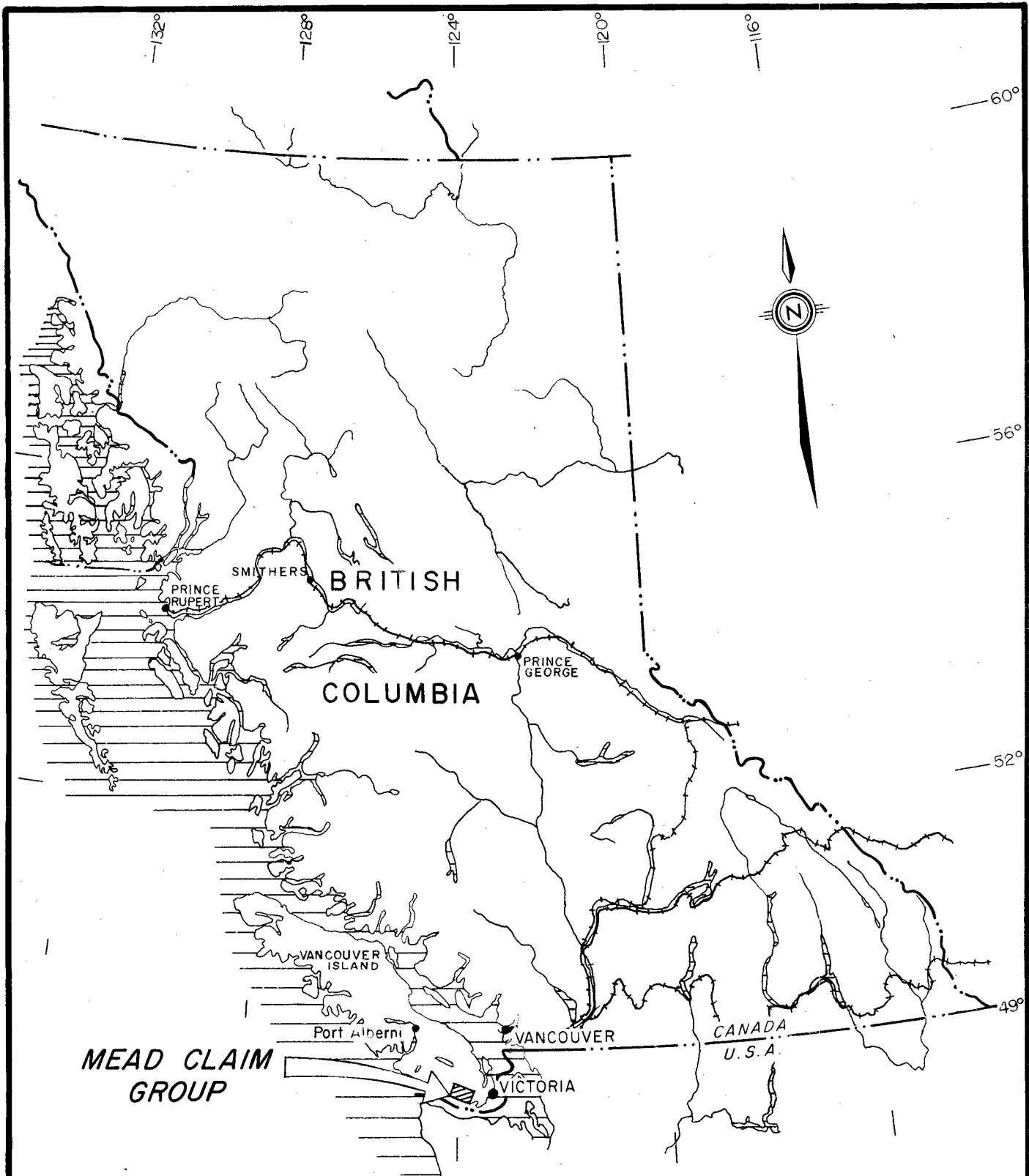
The claims are held in the name of

Dennis W. Milburn  
23924 - 68th Avenue, R. R. #6  
Langley, B. C.

Agent for Quintana Minerals Corporation  
#1215 - #2 Bentall Centre  
Vancouver, B. C.

and were staked between 6th February and 15th March 1969.

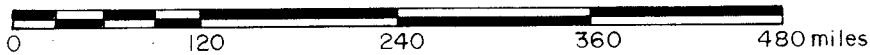
Application to group the claims as outlined below is included in Appendix II.



**MEAD CLAIM GROUP**

QUINTANA MINERALS CORPORATION  
 SOOKE - SOMBRIO AREA VANCOUVER ISLAND, B.C.

**INDEX MAP  
 MEAD CLAIM GROUP**



Mead Group No. 1	comprising claims	Mead Nos. 1-10
		Mead Nos. 23-32
		Mead Nos. 105-116
		Mead Nos. 77 and 78
Mead Group No. 2	comprising claims	Mead Nos. 11-22
		Mead Nos. 33-44
		Mead Nos. 79-90
Mead Group No. 3	comprising claims	Mead Nos. 65-76
		Mead Nos. 95-104
Mead Group No. 4	comprising claims	Mead Nos. 45-62

The claims are accessible via 50 miles of paved road from Victoria to the Jordan River townsite along Highway 14; thereafter via approximately 4 miles of gravel road along the "Main West Road" leading to Port Renfrew. The claims comprising the group are generally accessible by a by number of logging roads within the area of the claims.

## 2. HISTORY AND PHYSICAL DESCRIPTION

The Mead Groups, previously known as REN 1 and REN 2 groups, were staked in 1969. Prior to this, "NewConex Canadian Explorations Ltd." optioned the REN Groups from Macsan Explorations Ltd. and during 1963, 1964 carried out Geological Mapping, as well as Geochemical and Geophysical Work as reported in the Dept. of Mines & Petroleum Resources Assessment Report No. 549.

During 1969 a geochemical soil survey was run over the claim area, the samples being assayed for Copper and Nickel. In addition, a photogeological study of the area was carried out followed by a ground examination of photogeologic targets.

The four Mead Groups of Claims are near the shoreline of the Strait of Juan de Fuca, along a gently sloping foreshore dissected by numerous creek canyons. Elevation of the claims is between 1500 and 2000 feet

The claims area has been heavily glaciated and thick morainal deposits of gravel occur at lower elevations on the claims. The glaciation has rounded prominent outcrop areas and deposited unsorted gravels in depressions. A pronounced escarpment marking the Leech River Fault occurs to the north of the claims area. Thus the ground slopes gently and smoothly towards the ocean from the escarpment and is dissected by a number of creeks.

## B. GEOLOGY

### 1. REGIONAL GEOLOGY

The Sooke Jordan River area is in a graben bounded on the north by the Leech River Fault and on the south by a fault in the Strait of Juan de Fuca. This fault block is underlain by Eocene Metchosin volcanics intruded by stocklike? gabbro masses thought to be Oligocene. The gabbro is known as the Tertiary Sooke Gabbro. Sections of the country are overlain by Miocene conglomerates and sandstones of the Sooke Formation.

### 2. GEOLOGY OF THE CLAIMS AREA

The claims are underlain by bedded Metchosin basaltic tuffs interbedded with pillow and amygdaloidal basaltic flows striking easterly and dipping  $20^{\circ}$  -  $80^{\circ}$  to the north. These are sheared, altered and brecciated but show very little folding. The volcanics are cut by a series of steeply dipping easterly striking gabbro dykes, the largest of which is one half mile in width, the remainder being 100-150 feet wide. The gabbros are brecciated, sheared and altered. Granite



is intruded into the older rocks forming large breccia zones with brecciated fragments, both volcanic and gabbro, up to 50 feet in size.

The hornblende granite has been differentiated, thus basic hornblendites and simple acid pegmatites intrude and form the filling in the brecciated older rocks. Pegmatitic and felspathic outcrops are widespread. Free quartz is not common and is confined mainly to the northern portions of the group. A fine grained almost glassy textured rock light grey in colour occurs throughout the region. This is thought to be felspathic. Stringers of felspathic material and/or epidote occur in almost all Metchosin and Gabbro rock outcrops. The pegmatites and associated hornblendization occur in systems with a roughly east west trend.

The claim area has been extensively sheared and broken by a conjugate system of faults and shears in a variety of directions, the most common strikes being north and northwest. Many of the shears can be observed only where they cross creek canyons and those shears at approximately north south strike are vulnerable to erosion and account for the many steep walled creek canyons.

The Sooke sediments overlies the southern and lower portions of the area. These are a well-bedded flat-lying marine succession of sediments laid down in a shallow area bordering a deeply weathered shore. The boundaries are very irregular and the total thickness unknown; however, remnants of the rock occur up to an elevation of 1500 feet occupying depressions in the old erosion surface. These sediments have been affected by at least some of the stages of shearing but no mineralization has been noted in the Sooke conglomerates other than that occurring within the constituent boulders.

### 3. ROCK TYPES

The varying rock types found on the claims are described in ascending ages as follows:

#### Metchosin Volcanics

These are the oldest rocks and their base is unexposed. They are a series of basaltic underwater flows separated by well bedded tuffs. The series becomes more acid near its top with andesite flows and agglomerates outcropping the south part of the claims.

- (a) Pillow and amygdaloidal lavas. These are massive fine to medium grained black rocks with well marked pillows in some outcrops. The pillows show amygdaloidal rims and show that the flows strike easterly and dip from 45 to 90 degrees to the north. Areas where no pillows are formed show amygdaloidal flow tops. The medium grained rocks include large amounts of hornblende and plagioclase. Magnetite occurs plentifully as an accessory mineral. The amygdules are filled with epidote, calcite and plagioclase. Occasional vesicular beds occur.
- (b) Tuffs. The tuffs are thin-bedded fine-grained hornblende rocks with some plagioclase, and are similar in composition to the flows. The bedding is well marked and shows the beds strike from west to north, 70° west and dip from 20 to 90 degrees to the north. Some minor open folds occur but most of the contortions of the beds are due to movements along fault and shear planes.

#### Gabbro

- (a) The rock varies in granitic texture from coarse to medium grained with about 50% augite and hornblende and 50% felspar. Magnetite is present in most specimens. The felspar has been determined by the Geological Survey of Canada as labradorite which makes the rock a gabbro. These intrusives

occur as sills and dikes in the volcanics essentially as narrow bodies a few hundred feet in width and thousands of feet in length.

- (b) Coarse Hornblende and Hornblendites. This is a coarse rock with hornblende crystals up to one inch in length and with large feldspar crystals and magnetite. Often it occurs as pure hornblendite. It intrudes both the gabbro and the volcanics and many of the rocks near it are completely altered to hornblende.

#### Hornblende Granite

The hornblende granite is coarse to fine grained with equal amounts of free quartz feldspar and porphyritic crystals of hornblende. The granite has breccia zones near its borders that contain fragments of basalt and gabbro. Many granitic dikes cut both the gabbro and the volcanics and have sharp chilled borders near the older rocks.

#### Pegmatites

Hornblende granite dikes grade into simple pegmatites with large crystals of quartz feldspar and hornblende crystals up to several inches in length. In places these dikes finger out in the intruded rocks, the hornblende crystals diminish and the resulting quartz-feldspar impregnates the older rock as fracture fillings. Some coarse magnetite and titanite occur in some of the larger dikes.

- (a) Basalt and Andesite Dikes. Some small dikes intrude all the previously described rocks. These are generally small and are not shown on the attached map. They are dark grey or black non-mica lamprophyres and occur up to several feet in width.

#### Sooke Sediments

These are well bedded, flat-lying marine succession of sediments

laid down in a shallow area bordering a deeply weathered shore. Their total thickness is unknown to the writer but remnants of the rock occur up to the elevations of 1500 feet where they have filled depressions in the old erosion surface. Ochre and bauxite occur in the Sooke area in depressions in volcanics. The following types of rocks occur on the claims:

- (a) Basal Conglomerate. This is the most common rock type. It is a coarse boulder conglomerate with large rounded gabbro and basalt boulders cemented by fine sand and limonite cement. These conglomerates occur at all elevations on the claims and represent beach conditions.
- (b) The coarse conglomerates are overlain by fine pebble conglomerates with a limy cement. The rock looks like a cement with basalt pebbles and forms flat lying beds up to 20 feet thick which resist erosion and form steep sided river canyons.
- (c) The pebble conglomerates are overlain by a fine grained limy sandstone, usually brown coloured from limonite. The rock resists erosion and forms a pavement and vertical walls to the creeks. Thickness up to 50 or 60 feet has been mapped.
- (d) Interbedded with the sandstone are argillaceous limestones with numerous fossil shells occurring as very thin beds. Some pyritized fossils have been found, but most of the fossil shells have been replaced by lime or fine sand.

#### Glacial and Interglacial

The claim area has been heavily glaciated and thick morainal deposits of gravel occur at lower elevations on the claims. These are overlain by tillite in beds up to 30 or 40 feet in thickness. The glaciation has removed the sediments and rounded the prominent outcrop areas and deposited unsorted gravels in the depressions

over the Sooke Formation. The gravels have been derived partly from the claim areas and partly from the schist-granite complex north of Loss Creek.

#### 4. HYDROTHERMAL ALTERATION

The rocks on the claims are extensively altered as follows:

##### Hornblendization

The volcanics and gabbros are extensively altered to hornblende. Much of the basalt and basaltic tuffs near shear and breccia zones are completely altered to a mass of fine grained hornblende. In the same areas coarse grained hornblende dikes intrude the older rocks and both coarse and fine grained hornblendite occur along its margins.

##### Quartz-Felspar Alteration

The hornblendite, basalts and gabbros have been fractured and injected with pegmatite material. In the shear and breccia zones a large percentage of the rock is composed of fracture fillings of quartz-felspar material. Generally these are fine white lines in a black or dark coloured rock.

##### Quartz Carbonate

Some shear zones are altered to quartz and carbonate (ankerite, calcite and occasional siderite), while the remainder of the rocks are not affected by this alteration.

#### 5. MINERALIZATION

Pyrite and pyrrhotite are the predominant sulphide minerals with minor associated chalcopyrite. Small amounts of bornite and flecks of native copper are present. Magnetite has been found concentrated in the gabbro at a few locations. Ilmenite has been suspected and some of the leached areas display maroon staining and boxworks.

The highest concentration of sulphides occurs at areas of most intense shearing and the larger zones usually occurred

- a) close to some gabbro or other basic dykes,
- b) attended by a system of felspathic stringers with or without free quartz.

The sulphides sometimes occur in a disseminated form but mostly as cleavage films or in elongated blebs controlled by the orientation of the shear zone. None of the zones could be traced for more than a few hundred feet and very seldom does mineralization occur across widths greater than 15 feet. In general sulphides were estimated to constitute less than 2% of the rock. The sulphides occur in roughly equal amounts throughout the area.

## 6. PHOTOGEOLOGY

Aerial photographs, scale 1 inch equals 2640 feet, were studied for areas of possible mineralization. A major NW-SE fault/fracture direction was confirmed. Three target areas were selected as of particular interest due to heavy fracturing and fracture intersection. Field investigation indicated that the area is well fractured throughout, the apparent concentration of fracturing in the selected targets being due to a higher proportion of outcrop in these areas. Within the target areas mineralization observed comprised some pyrite, pyrrhotite and chalcopyrite confined to a few narrow areas.

## C. GEOCHEMICAL SURVEY

### 1. SAMPLING PROCEDURE

A soil geochemical survey was run on a grid designed to cover all claims. The line spacing used was 1500 feet with samples taken at 50-foot intervals on the lines. Samples were taken from just below the humus layer at an average depth of approximately 7 inches. Strict precautions were observed to prevent the inclusion of humus, coarse sand and pebbles. A total of 788 soil samples was taken. The samples were packed in conventional soil sample packets for shipment to Seymour Laboratories.

### 2. RESULTS

The survey carried out by Quintana Minerals Corporation under the field supervision of W. Kowalski proved inconclusive. Background for copper is approximately 50 ppm. Twenty samples show values of 100 ppm or greater. These appear erratically distributed and no anomalous copper-rich area appears to exist.

Nickel background is approximately 40 ppm with ten samples having values of 100 ppm or greater. These are widely scattered. Field examination of both copper and nickel anomalous values, where outcrop occurred, showed little or no mineralization.

### 3. ANALYTICAL METHOD AND AFFIDAVIT

Analytical method is described in the affidavit (see page 11) from Seymour Laboratory Ltd.

### 4. ASSAY DATA

A contour plan of assay values for copper and nickel accompanies this report. Assay certificates follow on pages 12 to 25.

**SEYMOUR LABORATORY LTD.**

147 RIVERSIDE DRIVE, NORTH VANCOUVER, B.C., CANADA

TELEPHONE (604) 929-2228

January 8, 1970

To: Chief Gold Commissioner  
Dept. of Mines & Petroleum Resources  
Victoria, B.C.

From: P. Rossbacher, Geochemist  
Seymour Laboratory Ltd.  
North Vancouver, B.C.

Subject: Method of Geochemical Analysis of Soil Samples from  
the "Mead Property" for Quintana Minerals Corporation,  
Vancouver, B.C.

Dear Sir:

The following outlines the method used by Seymour Laboratory Ltd., in the analysis of geochemical samples for copper and nickel.

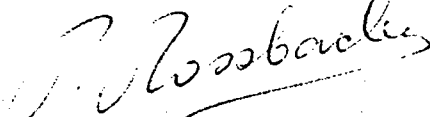
- 1 - Samples are oven dried and screened to pass 80 mesh.
- 2 - 0.3 grams of the minus 80 mesh fraction is weighed into a test tube and digested with acids for three hours.
- 3 - The cooled sample extract is diluted to known volume.
- 4 - After settling, the clear solution is analyzed for copper and nickel respectively by Atomic Absorption Spectroscopy, which involves comparison of the copper/nickel content of the sample to the copper/nickel content of known standards.

The Atomic Absorption Unit used by Seymour Laboratory, is a Jarrell Ash Maximum Versatility A.A. Spectrometer.

I trust this information is sufficient.

Yours truly,

SEYMOUR LABORATORY LTD.



P. Rossbacher, Geochemist

PR/mv



147 Riverside Drive, North Vancouver, B.C. Tel. (604) 929-2228

No. 303

## CERTIFICATE OF ANALYSIS

TO QUINTANA MINERALS CORPORATION  
 STE. 1215, ROYAL TRUST TOWER  
 2 B ENTALL CENTRE  
 VANCOUVER 1, B./C.  
 Re: HEAT PROPERTY

TYPE OF SAMPLES SOIL  
 No. of SAMPLES 156  
 FILE No. 308 Cur Inv. 1124

SAMPLE No.	OZ. PER TON GOLD	OZ. PER TON SILVER	% Ni PPM	%	%	SAMPLE NO.	Ni PPM
00 2N			25			00 XXS	
4N			25			00 30S	25
6N			25			32S	35
8N			25			34S	25
10N			35			36S	30
12N			25			00 38S	20
14N			30			40S	35
16N			25			42S	25
18N			30			00 BL	30
00 20N			25			BL 2W	15
22N			25			4W	25
24N			25			6W	35
26N			35			8W	15
28N			25			10W	20
30N			40			12W	15
32N			35			14W	25
34N			35			16W	25
36N			30			18W	10
38N			35			20W	30
00 40N			30			22N	25
42N			30			24W	25
00 2S			25			26W	25
4S			25			28W	55
6S			30			BL- 2E	25
8S			35			4E	25
10S			35			6E	25
12S			30			8E	25
14S			25			10E	35
16S			30			12E	25
18S			25			14E	30
20S			35			15E	25
22S			35			15E 2N	25
24S			25			4N	20
26S			30			6N	30
28S			50			8N	25

SEYMOUR LABORATORY LTD.

147 Riverside Drive, North Vancouver, B.C. Tel. (604) 929-2228

Page 2.

CERTIFICATE OF ANALYSIS

TO QUINTANA MINERALS CORPORATION  
 STE. 1215 ROYAL TRUST TOWER  
 2 BENTALL CENTRE  
 VANCOUVER 1, B.C.  
 Re: NEAD PROPERTY

TYPE OF SAMPLES SOIL  
 No. of SAMPLES 156  
 FILE No. 303 Cur Inv. 1124

SAMPLE No.	OZ. PER TON GOLD	OZ. PER TON SILVER	<sup>XX</sup> % Ni PPM	%	%	SAMPLE NO.	Ni PPM
15E 10N			20			15E 10N	20
12N			10			12N	10
14N			20			14N	20
16N			15			16N	15
18N			25			18N	25
20N			30			20N	30
22N			25			22N	25
24N			25			24N	25
26N			25			26N	25
28N			35			28N	35
30N			100			30N	100
32N			25			32N	25
34N			25			34N	25
36N			15			36N	15
38N			15			38N	15
40N			25			40N	25
42N			25			42N	25
2S			15			2S	15
4S			25			4S	25
6S			15			6S	15
15E 8S			15		15E	8S	15
10S			25			10S	25
12S			20			12S	20
14S			15			14S	15
16S			25			16S	25
18S			20			18S	20
20S			10			20S	10
22S			10			22S	10
24S			10			24S	10
26S			15			26S	15
15E 28S			15		15E	28S	15
30S			25			30S	25
32S			5			32S	5
34S			15			34S	15
36S			25			36S	25

*J. Chatterton* PROVINCIAL ASSAYER

DATE JULY 17, 1969

SEYMOUR LABORATORY LTD.

147 Riverside Drive, North Vancouver, B.C. Tel. (604) 929-2228

CERTIFICATE OF ANALYSIS

TO QUINTANAMINERALS CORPORATION  
 SVE. 1215 ROYAL TRUST TOWER  
 2 BENTALL CENTRE  
 VANCOUVER 1, B.C.  
 Re: Mead Property

TYPE OF SAMPLES SOIL  
 No. of SAMPLES 156  
 FILE No. 308 Our Inv. 1124

SAMPLE No.	OZ. PER TON GOLD	OZ. PER TON SILVER	Ni <sup>100%</sup> PPM	%	%	SAMPLE NO.	Ni PPM
15E 38S			35		15W	16S	15
40S			25			18S	25
42S			30			20S	25
44S			20			22S	30
46S			20			24S	25
48S			25			26S	25
15W 00			35			28S	20
2N			15			30S	25
4N			35			32S	25
6N			20			34S	25
8N			25			36S	60
10N			25			38S	35
12N			15			40S	15
14N			25			42S	15
16N			30			44S	25
18N			10			46S	25
20N			25			48S	25
22N			30				
24N			25				
26Nq			15				
28N			15				
30N			30				
32N			35				
34N			25				
36N			25				
38N			15				
15W 40N			25				
42N			10				
2S			15				
4S			25				
6S			16				
8S			15				
10S			20				
12S			20				
14S			25				

CC: Mr. M. Hurd  
 Chapman, Wood & Griswold

*G. Chatterton*

SEYMOUR LABORATORY LTD.

147 Riverside Drive, North Vancouver, B.C. Tel. (604) 929-2228

Nº 334

CERTIFICATE OF ANALYSIS

TO Quintana Minerals Corp.  
 Ste. 1215 X Royal Trust Tower  
 2 Bental Centre  
 VANCOUVER 1, B.C.  
 Re: LEAD PROPERTY

TYPE OF SAMPLES SOIL  
 No. of SAMPLES 364  
 FILE No. 334 Our Inv. 1081  
 Page 1.

SAMPLE No.	OZ. PER TON GOLD	OZ. PER TON SILVER	Cu% PPM	Ni% PPM	%	SAMPLE NO.	Cu PPM	Ni PPM
75E20S			50	30		75W 18	40	35
22			40	30		20	40	55
24			95	35		22	25	30
26			30	35		75W 24S	25	30
28			30	25		26	40	35
30			20	30		28	40	30
32			25	35		30	25	25
75W 2N			25	30		32	25	25
75W 4N			25	35		34	20	25
6			20	35		36	50	35
8			20	35		38	40	30
10			35	35		40	20	20
12			30	35		42	30	25
14			45	40		44S	40	30
16			50	35		46	45	35
18			55	35		48	40	30
20			20	30	ool2	N (B)	30	35
22			40	65		60E38N	55	35
75W24N			20	30		40	20	25
26			45	60		60E 2S	30	25
28			35	25		4	50	35
30			70	65		6	30	25
32			60	40		8	45	35
34			50	35		10	50	30
36			40	35		12	45	25
38			50	50		14	35	25
40N			60	35		16	50	30
75W 2S			40	30		60E18S	40	30
4S			30	35		20	40	25
6			30	35		22	75	35
8			40	35		24	30	25
10			30	30		26	40	30
12			65	50		28	55	45
14			35	25		30	55	35
16			30	30		32	35	25

*J. Patten* PROVINCIAL ASSAYER

DATE JULY 7, 1969

SEYMOUR LABORATORY LTD.

147 Riverside Drive, North Vancouver, B.C. Tel. (604) 929-2228

CERTIFICATE OF ANALYSIS

TO QUINTANA MINERALS CORP.  
STE. 1215 - ROYAL TRUST TOWER  
2. BENTALL CENTRE  
VANCOUVER 1, B.C.

TYPE OF SAMPLES SOIL  
 No. of SAMPLES 364  
 FILE No. 334 Our Inv. 1081  
 Page 2

SAMPLE No.	OZ. PER TON GOLD	OZ. PER TON SILVER	Cu % PPM	Ni % PPM	%	SAMPLE NO.	Cu PPM	Ni PPM
60E 34S			30	35	B30W	16N	375	70
36			30	30	B30W	18N	75	30
60E 38S			30	30		20	35	25
40			35	35		22	50	45
42			50	30		24	60	25
75E 2N			130	35		26	110	65
4			40	30		28	130	30
6			115	35		30	60	35
8			20	10		32	50	20
10			30	25		34	60	25
12			20	35		36	40	35
14			35	30	B30W	38N	30	35
75E 16N			40	25		40	60	25
18			50	35	B30W	2S	45	35
20			20	25		4	30	35
22			30	30		6	5	10
24			60	40		8	20	30
26			50	30		10	20	25
28			20	30		12	40	30
30			40	35		14	30	25
32			50	35		16	85	95
34			20	25	B30W	18S	50	30
75E 36N			60	35		20	35	35
38			30	25		22	45	35
40			25	30		24	35	30
75E 2S			40	35		26	40	35
4			40	35		28	30	35
6			30	25		30	30	35
8			80	35		32	30	35
10			35	30		34	45	35
12			20	25		36	40	35
14			80	35	B30W	38S	25	30
75E 16S			50	30		40	40	35
18			40	35	60E	2N	40	30
850W 14N			70	35		4	45	35

*J. Chatter*

PROVINCIAL ASSAYER

DATE JULY 7, 1969

SEYMOUR LABORATORY LTD.

147 Riverside Drive, North Vancouver, B.C. Tel. (604) 929-2228

CERTIFICATE OF ANALYSIS

TO QUINTANA MINERALS CORP.  
 STE. 1215 - ROYAL TRUST TOWER  
 2 BENTALL CENTRE  
 VANCOUVER 1, B.C.

TYPE OF SAMPLES SOIL  
 No. of SAMPLES 364  
 FILE No. 334 Our Inv. 1081  
 Page 3

SAMPLE No.	OZ. PER TON GOLD	OZ. PER TON SILVER	Cu % PPM	Ni % PPM	%	SAMPLE NO.	Cu PPM	Ni PPM
60E 6N			30	30	B30E	24N	70	35
8			40	30		26	65	35
10			70	50		28	40	30
12			35	25		30	35	20
14			35	30		32	65	35
16			40	30	B30E	34N	2030	30
60E 18N			65	35		36	20	15
20			45	35		38	40	25
22			40	25		40	55	35
24			55	30	B30E	2S	40	100
26			65	35		4	30	30
28			35	30		6	50	25
30			30	25		8	50	30
32			40	25		10	20	25
34			35	35		12	30	25
36			85	35	B30E	14S	30	40
B15W26S			25	30		16	30	25
28			20	30		18	70	25
30			40	35		20	50	35
32			40	30		22	40	30
B15W34S			30	15		24	50	30
36			100	35		26	65	40
38			60	30		28	20	25
40			30	25		30	45	30
B30E 2N			40	40		32	10	15
4			40	45	B30E	34S	30	30
6			50	35		36	50	25
8			40	30	B30W	2N	20	20
10			65	35		4	30	25
12			30	25		6	40	25
B30E14N			60	35		8	20	15
16			30	25		10	110	35
18			90	30		12	115	35
20			20	25	B15E	2N	15	35
22			50	35		4	10	30

Form SL 4 *J. Chatterton* PROVINCIAL ASSAYER DATE JULY 7, 1969

SEYMOUR LABORATORY LTD.

147 Riverside Drive, North Vancouver, B.C. Tel. (604) 929-2228

CERTIFICATE OF ANALYSIS

TO QUINTANA MINERALS CORPORATION  
 STE. 1215 - ROYAL TRUST TOWER  
 2 BENTALL CENTRE  
 VANCOUVER 1, B.C.

TYPE OF SAMPLES SOIL  
 No. of SAMPLES 364  
 FILE No. 334 Our Inv. 1081

(Page 4)

SAMPLE No.	OZ. PER TON GOLD	OZ. PER TON SILVER	Cu % PPM	Ni % PPM	%	SAMPLE NO	Cu PPM	Ni PPM
B15E6N			10	4	B15W	36N	30	35
8			5	25		38	15	30
10			30	35		40	35	35
12			30	35	B15W	2S	20	40
B15E 14N			25	35		4	10	25
16			25	30		6	20	90
18			30	35		8	30	30
20			20	35		10	40	35
22			15	30		12	15q	35
24			25	30		14	30	35
26			30	35		16	20	25
28			40	35		18	30	35
30			40	35		20	30	35
32			10	25		22	30	35
B15E 34N			40	35		24	50	35
36			25	30	CO -	16 S(B)	45	40
38			20	25		18	40	75
40			75	40		20	50	85
B15W 2N			50	45		22	40	80
4			30	35		24	55	100
6			15	30		26	80	85
8			40	65		28	55	65
10			20	35		30	50	65
12			10	30	00-	32S(B)	45	170
14			10	15		34	50	55
16			25	30		36	60	60
18			50	45		38	65	50
20			65	40		40	60	40
22			30	35	00-	2N(B)	10	25
24			45	35		4	50	35
26			40	35		6	70	25
28			130	50		8	120	55
30			90	65		10	30	150
322			50	35		14	20	25
34			70	55		16	50	45

*J. Chatter*

SEYMOUR LABORATORY LTD.

147 Riverside Drive, North Vancouver, B.C. Tel. (604) 929-2228

CERTIFICATE OF ANALYSIS

TO QUINTANA MINERALS CORPORATION  
 STE. 1215 - ROYAL TRUST TOWER  
 2 BENTALL CENTRE  
 VANCOUVER 1, B.C.

TYPE OF SAMPLES SCIL  
 No. of SAMPLES 364  
 FILE No. 334 Our Inv. 1081  
 (Page #5)

SAMPLE No.	OZ. PER TON GOLD	OZ. PER TON SILVER	C% PPM	Ni% PPM	%	SAMPLE NO	Cu PPM	Ni PPM
00 18N(B)			50	35	BL	6E (B)	25	20
20			50	35		8	45	25
22			30	35		10	30	25
24			20	25		12	30	25
26			30	35		14	60	30
28			15	35		15	40	30
30			150	110		16	30	25
32			40	75	BL	18E (B)	40	25
00 34N(B)			35	35		20	20	25
36			120	75		22	30	35
38			50	55		24	40	35
40			60	40		26	40	40
15E 2S			30	40		28	25	45
4			30	35		30	25	25
6			30	30		68	20	25
8			20	25		70	30	30
10			35	35		72	35	25
12			35	35	BL	74E (B)	30	35
B15E 14S			60	45		76	55	35
16			35	35	2W	BL (B)	90	45
18			35	35	4W	BL (B)	65	25
20			20	40	6		35	30
22			30	35	8		15	30
24			15	35	10W	BL (B)	20	25
26			35	35	12		45	65
28			10	40	14		35	45
30			20	35	16		10	25
32			80	35	18W		30	25
B15E 34S			40	35	20		25	35
36			25	30	22		25	30
38			20	30	24		20	25
40			25	30	26		35	35
BLOOE (B)			30	25	28		50	40
2			60	25	30		40	35
4			20	15	62W	BL	20	25

*J. Chatterton*

PROVINCIAL ASSAYER  
19

DATE JULY 7, 1969



SEYMOUR LABORATORY LTD.

147 Riverside Drive, North Vancouver, B.C. Tel. (604) 929-2228

CERTIFICATE OF ANALYSIS

TO QUINTANA MINERALS CORPORATION  
 STE. 1215 - ROYAL TRUST TOWER  
 2 BENTALL CENTRE  
 VANCOUVER 1, B.C.  
 Re: MEAD PROPERTY

TYPE OF SAMPLES SOIL  
 No. of SAMPLES 364  
 FILE No. 334 Our Inv. 1081  
 (Page #6 of 6)

SAMPLE No.	OZ. PER TON GOLD	OZ. PER TON SILVER	Cu% PPM	Ni % PPM	%	%			
64W BL			35	45					
66			40	30					
68			65	20					
70			65	25					
72			40	25					
74			40	25					
75			45	30					
00 2S (B)			40	25					
4			55	35					
6			80	15					
8			15	20					
10			150	240					
0012S (B)			65	110					
14			65	60					

CC: G.M. Hurd  
 Chapman, Wood & Griswold Ltd.

Form SL 4 *J. Chatters*

PROVINCIAL ASSAYER  
 20

DATE JULY 7, 1969

SEYMOUR LABORATORY LTD.

147 Riverside Drive, North Vancouver, B.C. Tel. (604) 929-2228

Nº 318

CERTIFICATE OF ANALYSIS

TO QUINTANA MINERALS CORPORATION  
 STE. 1215 - ROYAL TRUST TOWER  
 2 BENTALL CENTRE  
 VANCOUVER 1. B.C.

TYPE OF SAMPLES SOIL

No. of SAMPLES

FILE No. 318 Our Inv. 1070

Re: MFAD PROPERTY

(Page #1)

SAMPLE No.	OZ. PER TON GOLD	OZ. PER TON SILVER	Cu % PPM	%	Ni % PPM	%			
BL 16 E			80		35				
18			60		25				
20			90		30				
22			55		25				
24			40		25				
26			20		25				
28			50		35				
30			20		25				
32			50		30				
34			20		25				
36			50		30				
38			20		25				
40			60		35				
42			50		35				
44			40		25				
45			50		35				
46			30		30				
48			30		25				
50			40		25				
52			35		25				
54			50		35				
56			35		30				
58			50		35				
60			40		35				
62			45		35				
64			20		30				
66			70		45				
BL 32 W			30		35				
34			50		35				
36			35		30				
38			40		30				
40			20		30				
42			65		40				
44			10		15				
46			10		25				
48			45		35				

36

*J. Crutcher*

PROVINCIAL ASSAYER  
21

DATE JULY 2, 1969

SEYMOUR LABORATORY LTD.

147 Riverside Drive, North Vancouver, B.C. Tel. (604) 929-2228

CERTIFICATE OF ANALYSIS

TO QUINTANA MINERALS COPORATION  
 STE, 1215 - ROYAL TRUST TOWER  
 2 BENTALL CENTRE  
 VANCOUVER 1, B.C.  
 Re: MEAD PROPERTY

TYPE OF SAMPLES SOIL  
 No. of SAMPLES  
 FILE No. 318 Our Inv. 1070  
 (Page #2)

SAMPLE No.	OZ. PER TON GOLD	OZ. PER TON SILVER	Cu % PPM	Ni% PPM	%	SAMPLE NO	Cu PPM	Ni PPM
BL 50 W			30	35	30 E	18 N	90	35
52			35	35		20	75	35
54			20	25		22	5	10
56			25	25		24	10	25
58			100	45		26	30	25
30E 2 S			40	30		28	40	30
4			30	30		30	50	35
6			50	40		32	50	45
8			40	35		34	35	35
10			40	35		36	30	35
12			40	30		38	30	25
14			50	35		40	40	35
16			20	25	30 W	2 S	20	20
18			20	25		4	70	30
20			40	30		6	30	25
22			60	40		8	60	30
24			65	45		10	50	30
26			55	35		12	40	35
28			40	30		14	45	35
30			35	25		16	30	30
32			30	30		18	50	30
34			30	20		20	10	5
36			40	30		22	55	35
38			60	30		24	40	30
40			45	25		26	55	35
42			60	35		28	40	30
44			80	130		30	50	35
30E 2 N			35	30		32	30	15
4			45	35		34	5	5
6			50	35		36	40	25
8			20	30		38	10	5
10			70	35		4 0	50	25
12			45	25		42	40	30
14			30	25		44	80	35
16			85	35		46	40	25

*J. Chatter* PROVINCIAL ASSAYER DATE JULY 2, 1969  
 Form SL 4 22

SEYMOUR LABORATORY LTD.

147 Riverside Drive, North Vancouver, B.C. Tel. (604) 929-2228

CERTIFICATE OF ANALYSIS

TO: QUINTANA MINERALS CORPORATION  
 STE. 1215 - ROYAL TRUST TOWER  
 2 BENTALL CENTRE  
 VANCOUVER 1, B.C.  
 Re: MEAD PROPERTY

TYPE OF SAMPLES SOIL  
 No. of SAMPLES  
 FILE No. 318 Our Inv. 107  
 (Page #3)

SAMPLE No.	OZ. PER TON GOLD	OZ. PER TON SILVER	Cu % PPM	Ni % PPM	%	SAMPLE NO.	Cu PPM	Ni PPM
30 W 48 S			30	15	45 E	28 S	40	15
30 W 00 N			10	25		30	60	35
2			50	35		32	30	30
4			40	40		34	65	35
6			10	25		36	20	25
8			40	35		38	30	25
10			35	25		40	25	25
12			50	30		42	25	30
14			50	35		44	35	30
16			55	35		46	20	25
18			20	25		48	10	15
20			35	30	45 E	2 N	35	30
22			20	25		4	60	35
24			50	30		6	50	35
26			50	35		8	30	30
28			30	30		10	40	35
30			60	35		12	40	30
32			45	35		14	45	35
34			50	30		16	40	35
36			40	25		18	20	25
38			30	25		20	50	35
40			30	15		22	30	30
45E 2 S			55	35		24	25	25
4			20	20		26	35	30
6			30	25		28	10	10
8			40	25		30	40	30
10			30	25		32	50	35
12			35	30		34	30	30
14			40	25		36	55	35
16			45	25		38	45	30
18			35	25		40	30	30
20			45	25	45 W	00 S	30	30
22			20	25		2	30	35
24			20	15		4	40	35
26			40	20		6	60	50

*J. Chatter*

PROVINCIAL ASSAYER

JULY 2, 1969

DATE

SEYMOUR LABORATORY LTD.

147 Riverside Drive, North Vancouver, B.C. Tel. (604) 929-2228

CERTIFICATE OF ANALYSIS

TO QUINTANA MINERALS CORPORATION  
STE. 1215 - ROYAL TRUST TOWER  
2 BENTALL CENTRE  
VANCOUVER 1, B.C.  
 Re: MEAD PROPERTY

TYPE OF SAMPLES SOIL  
 No. of SAMPLES \_\_\_\_\_  
 FILE No. 318 Our inv/ 1070  
 (Page #4)

SAMPLE No.	OZ. PER TON GOLD	OZ. PER TON SILVER	Cu % PPM	Ni % PPM	%	SAMPLE NO.	Cu PPM	Ni PPM
45W 8 S			70	110	45 W	30 N	10	15
10			60	55		32	30	25
12			30	45		34	40	25
14			55	40		36	20	25
16			55	35		38	20	25
18			60	40		40	35	25
20			30	35	60W	00S	40	25
22			65	35½		2	50	30
24			60	50		4	35	35
26			60	60		6	50	35
28			50	50		8	100	65
30			55	35		10	30	30
32			50	35		12	10	15
34			40	30		14	20	15
36			40	25		16	5	5
38			15	20		18	30	15
40			35	35		20	25	35
42			15	25		22	50	30
44			40	35		24	45	35
46			45	35		26	50	35
48			45	25		28	60	20
45W 2 N			10	5		30	25	25
4			30	30		32	25	10
6			20	25		34	10	10
8			35	30		36	30	30
10			40	35		38	50	35
12			30	30		40	40	25
14			40	35		42	20	25
16			30	30		44	20	20
18			30	65		46	20	25
20			20	30		48	30	25
22			30	25	60 W	2 N	30	25
24			20	20		4	30	25
26			50	40		6	5	5
28			39	30		8	15	20

SEYMOUR LABORATORY LTD.

147 Riverside Drive, North Vancouver, B.C. Tel. (604) 929-2228

CERTIFICATE OF ANALYSIS

TO: QUINTANA MINERALS CORPORATION  
 STE. 1215 - ROYAL TRUST TOWER  
 2 BENTALL CENTRE  
 VANCOUVER 1, B.C.  
 Re: Mead Property

TYPE OF SAMPLES SOIL  
 No. of SAMPLES  
 FILE No. 318 Our inv. 1070  
 (Page #5)

SAMPLE No.	OZ. PER TON GOLD	OZ. PER TON SILVER	Cu% PPM	Ni% PPM	%	%			01 5)
60W 10 N			40	25					
12			30	25					
14			60	35					
16			60	30					
18			40	35					
20			30	25					
22			65	35					
24			60	35					
26			20	25					
28			35	35					
30			30	30					
32			60	40					
34			50	35					
36			45	35					
38			35	30					
40			30	30					

CC: G.M. Hurd  
 Chapman, Wood & Griswold Ltd.

*J. Chatter*

PROVINCIAL ASSAYER

DATE JULY 2, 1969

D. SUMMARY OF COSTS

1. GEOLOGICAL

Personnel costs (Table 1)	\$1,645.00	
Drafting (50% total)	<u>500.00</u>	\$ 2,145.00

2. GEOCHEMICAL

Personnel costs (Table 1)	\$4,624.50	
Equipment and fuel	496.85	
Food and general expenses	924.63	
Accommodation	549.15	
Vehicle rentals	450.00	
Drafting (50% total)	500.00	
Assaying	<u>1,415.30</u>	8,960.43

3. ADMINISTRATION

Project geologist	\$ 950.00	
General	<u>34.56</u>	<u>984.56</u>

TOTAL

\$12,089.99

TABLE I

## PERSONNEL AND PERSONNEL COSTS

Category and Name	Job Title	Dates of Employment	Rate	Period of Employment	Cost
1. GEOLOGICAL					
D. C. Malcolm	P. Engineer	10 Feb. - 13 Feb. 1969	\$100/day	3 days	\$ 300.00
T. M. Gordon	P. Engineer	21 Jul. - 25 Jul. 1969	\$ 75/day	5 days	375.00
E. C. Holt	Photogeologist	12 Jun. - 16 Jun. 1969	\$ 90/day	5.5 days	495.00
P. H. Blanchet	P. Engineer	13 Jun. 1969	\$ 12.50/hr.	2 hours	25.00
A. S. Malone	P. Engineer	6 Jan. - 9 Jan. 1970	\$150/day	3 days	450.00
					<u>\$1,645.00</u>
2. GEOCHEMICAL					
W. Kowalski	Technician	30 May - 30 Jun. 1969	\$ 72/day	29.5 days	\$2,004.00
D. W. Clark	Geochem Survey	30 May - 21 Jun. 1969	\$ 25/day	23 days	575.00
T. McRory	" "	" " "	\$ 25/day	23 days	575.00
E. Millidge	" "	" " "	\$ 25/day	23 days	575.00
L. Charlwood	" "	" " "	\$ 25/day	23 days	575.00
A. Harman	" "	2 Jun. - 3 Jun. 1969	\$ 75/day	2 days	150.00
H. H. Shear	P. Engineer	30 May - 31 May 1969	\$100/day	1.5 days	170.50
					<u>\$4,624.50</u>
3. ADMINISTRATION					
D. W. Milburn	Geologist	Feb. 1969 - Feb. 1970	\$1700/month	prorated	\$ 950.00



Declared before me at the *City*  
of *Vancouver*, in the  
Province of British Columbia, this ~~28~~ *29*  
day of *January* *1970*, A.D.

*D. W. Hillman*

.....  
A Commissioner for taking Affidavits within British Columbia or  
A Notary Public in and for the Province of British Columbia,

SUB - LINGUISTIC RECORDER

## LIST OF REFERENCES AND BIBLIOGRAPHY

### INTERNAL REPORTS ON THE MEAD GROUPS BY:

1. Terence M. Gordon, P.Eng.
2. D. C. Malcolm, P.Eng.
3. E. C. Holt

### GOVERNMENT PUBLICATIONS:

1. Report of Minister of Mines 1950, pp 180-194
2. Dept. of Mines & Petroleum Resources  
Assessment Report No. 549

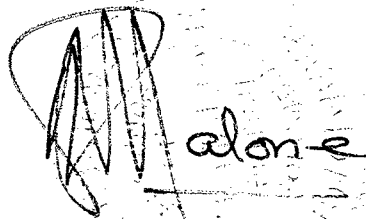
APPENDIX I

Certificates

## CERTIFICATE

I, A. S. Malone of North Vancouver, British Columbia, do hereby certify that:

1. I am a mining engineer residing at #209 - 1450 Chesterfield Ave., North Vancouver, B. C.
2. I am employed by Chapman, Wood & Griswold Ltd., Consulting Mining Engineers and Geologists, 145 East 15th Street, North Vancouver, B. C.
3. I have practised my profession for four years.
4. I have no direct, indirect or anticipated interest in Quintana Minerals Corporation or the Mead Group of claims.
5. I have not visited these claims but have prepared this report based on previous work and reports on these claims by various government agencies and consulting geologists who have worked on the property.
6. I am a registered Professional Engineer in the Province of British Columbia.

A handwritten signature in black ink, appearing to read "A. S. Malone". The signature is written in a cursive style and is positioned over a faint, circular stamp or watermark.

A. S. Malone, P. Eng.

14 January 1970

CERTIFICATE

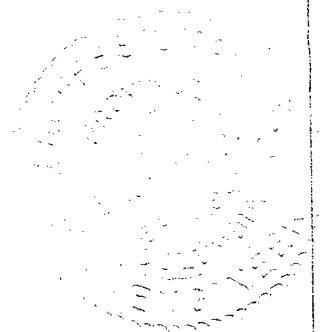
I, Terence M. Gordon of Vancouver, British Columbia, do hereby certify that

1. I am a geological engineer residing at 2829 Revelstoke Court, Vancouver 8, British Columbia.
2. I am employed by Total Management Resources Ltd., 23924 - 68th Avenue, Langley, British Columbia.
3. I have practised my profession for one year.
4. This report has been prepared based on a property investigation between 21st July and 25th July 1969 and a study of available information.
5. I have no direct, indirect or anticipated interest in Quintana Minerals Corporation or the Mead Groups of claims.
6. I am a registered Professional Engineer in the Province of British Columbia.

*Terence M Gordon*

Terence M. Gordon, P. Eng

January 20th, 1970



APPENDIX II

Notice to Group Mead Claims

MINERAL ACT

FORM I



M.R. 35298, 564.00

NOTICE TO GROUP

Mining Division Victoria Location West of Jordan River Mouth

Name of group Mead Group No. 1

We, the undersigned owners\* of the following adjoining mineral claims, desire to group them according to the provisions of the *Mineral Act*:—

NAME OF CLAIM	Record No. or Lot No.	SIGNATURE OF OWNER*	Free Miner's Certificate No.
Mead No. 1	14802		
2	14803	<i>D.W. Milburn</i>	80246
3	14804		
4	14805		
5	14806	<i>Agent for Corbin J. Robertson</i>	80616
6	14807		
7	14808		
8	14809		
9	14810		
10	14811		
23	14824		
24	14825		
25	14826		
26	14827		
27	14828		
28	14829		
29	14830		
30	14831		
31	14832		
32	14833		
105	14874		
106	14875		
107	14876		
108	14877		
109	14878		
110	14879		
111	14880		
112	14881		
113	14951		
114	14952		
115	14953		
116	14954		
77	14923		
78	14924		

## MINERAL ACT

FORM I



## NOTICE TO GROUP

Mining Division Victoria Location West of Jordan River MouthName of group Mead Group No. 2We, the undersigned owners\* of the following adjoining mineral claims, desire to group them according to the provisions of the *Mineral Act*:—

NAME OF CLAIM	Record No. or Lot No.	SIGNATURE OF OWNER*	Free Miner's Certificate No.
Mead No. 11	14812		
12	14813		
13	14814	<i>D. W. Milburn</i>	80246
14	14815	<i>Agent for</i>	
15	14816	<i>Carlton J. Robertson</i>	80616
16	14817		
17	14818		
18	14819		
19	14820		
20	14821		
21	14822		
22	14823		
33	14834		
34	14835		
35	14836		
36	14837		
37	14838		
38	14839		
39	14840		
40	14841		
41	14842		
42	14843		
43	14844		
44	14845		
79	14925		
80	14926		
81	14927		
82	14928		
83	14929		
84	14930		
85	14931		
86	14932		
87	14933		
88	14934		
89	14935		
90	14936		



DEPARTMENT OF MINES AND PETROLEUM RESOURCES

MINERAL ACT

FORM I



35248

NOTICE TO GROUP

Mining Division Victoria Location West of Jordan River Mouth

Name of group Mead Group No. 3

We, the undersigned owners\* of the following adjoining mineral claims, desire to group them according to the provisions of the *Mineral Act*:—

NAME OF CLAIM	Record No. or Lot No.	SIGNATURE OF OWNER*	Free Miner's Certificate No.
Mead No. 65	14862		
66	14863		
67	14864	<i>D.W. Melburn</i> <i>Agent for</i> <i>Carlin J. Robertson</i>	80246
68	14865		
69	14866		80616
70	14867		
71	14868		
72	14869		
73	14870		
74	14871		
75	14872		
76	14873		
91	14937		
92	14938		
93	14939		
94	14940		
95	14941		
96	14942		
97	14943		
98	14944		
99	14945		
100	14946		
101	14947		
102	14948		
103	14949		
104	14950		



APPENDIX III



THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA

DEPARTMENT OF MINES AND PETROLEUM RESOURCES

MINERAL ACT FORM B

SUB-MINING RECORDER RECEIVED

JAN 29 1970

M.R. # 35278E 529.00 VANCOUVER, B. C.

Affidavit on Application for Certificate of Work

I, D.W. Milburn (Name.) 23924 - 68th Avenue (Address.) R.R. #6, Langley, B.C.

Agent for Corliss J. Robertson (Name.) 500 Jefferson Bldg (Address.) Houston, Texas

Q.M. 9.7.

Free Miner's Certificate No. 80246

Free Miner's Certificate No. 80616

Date issued 13th May, 1969

Date issued May 21/69

make oath and say:—

I have done, or caused to be done, work on the Mead No. 1 Group of Mineral Claims as listed in Appendix 2 Mead # 1-10, 23-32, 105-116, 77-78. Mineral Claim(s)

Record No.(s) 14802 - 14811, 14824-14833, 14874-14881, 14951-14954, 14923, 14924

situate at West of Jordan River Mouth - South West Vancouver Island

in the Victoria Mining Division, to the value of at least Three Thousand Four Hundred 18 dollars, since the 15th 19 day of MARCH February, 19 69

Q.M. 9.7.

The following is a detailed statement of such work:—

(Set out full particulars of the work done in the twelve months in which such work is required to be done.)

X GEOLOGICAL SURVEY

Field Investigation and Audit Check of previous mapping covering approximately 2.9 square miles photogeological interpretation

GEOCHEMICAL SURVEY

Soil sampling of approximately 239 Samples Copper and Nickel Determination of 239 Samples Application for 34 Certificates of Work

X MEAD 1-5 GEOLOGICAL (1 yr ea)

That I have not and will not use the work declared herein in any way for the purposes of obtaining tax exemption on a Crown-granted mineral claim under the terms of the Taxation Act.

SWORN and subscribed to at VANCOUVER, B. C. this day of

19, before me— JAN 29 1970

\* Gill Turner Sub-Mining Recorder

D.W. Milburn

\* This affidavit may be taken by a person empowered to take affidavits by the Evidence Act of British Columbia.



THE GOVERNMENT OF  
THE PROVINCE OF BRITISH COLUMBIA

DEPARTMENT OF MINES  
AND PETROLEUM RESOURCES

MINERAL ACT  
FORM B

SUB-MINING RECORD  
RECEIVED

JAN 20 1970

M.R. # 35799  
VANCOUVER, B.C.

**Affidavit on Application for Certificate of Work**

I, D. W. Milburn (Name.) Agent for Carline J. Robertson (Name.)  
23924 - 68th Avenue (Address.) 500 Jefferson Bldg. (Address.)  
R.R. #6, Langley, B.C. Houston, Texas  
 Free Miner's Certificate No. 80246 Free Miner's Certificate No. 80616  
 Date issued 13th May, 1969 Date issued May 21/69

*DM 9.7*

make oath and say:—

I have done, or caused to be done, work on the Mead No. 2 Group of Mineral Claims  
as listed in Appendix 2 Mead # 11-22, 33-44, 79-90. Mineral Claim(s)

Record No.(s) 14812 - 14823<sup>B</sup>, 14834 - 14845<sup>B</sup>, 14925 - 14936<sup>(0)</sup>

situate at West of Jordan River Mouth - South West Vancouver Island

in the Victoria Mining Division, to the value of at least  
Three Thousand Five Hundred <sup>50</sup> 18 dollars, since the 15th day of MARCH 19, 19 69

*DM 9.7*

The following is a detailed statement of such work:—  
(Set out full particulars of the work done in the twelve months in which such work is required to be done.)

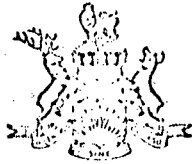
- GEOLOGICAL SURVEY**
  - Field Investigation and Audit Check of previous mapping covering approximately 3.0 square miles
  - photogeological interpretation
- GEOCHEMICAL SURVEY**
  - Soil sampling of approximately 253 Samples
  - Copper and Nickel Determination of 253 Samples
  - Application for 36 Certificates of Work
- MEAD 11-15 GEOLOGICAL (170 m)

That I have not and will not use the work declared herein in any way for the purposes of obtaining tax exemption on a Crown-granted mineral claim under the terms of the *Taxation Act*.

WORN and subscribed to at VANCOUVER, B.C.  
 this \_\_\_\_\_ day of \_\_\_\_\_  
 19\_\_\_\_, before me— JAN 29 1970  
John Surman  
 Sub-Mining Recorder

*John Surman*

● This affidavit may be taken by a person empowered to take affidavits by the Evidence Act of British Columbia.



THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA

DEPARTMENT OF MINES AND PETROLEUM RESOURCES

MINERAL ACT FORM B

SUB-MINING RECORDER RECEIVED

JAN 29 1970

M.R. # 35298

VANCOUVER, B. C.

Affidavit on Application for Certificate of Work

I, D. W. Milburn (Name.) 23924 - 68th Avenue (Address.) R.R. #6, Langley, B.C.

Agent for Corbin J. Robertson (Name.) 500 Jefferson Bldg. (Address.) Houston, Texas

Handwritten initials and date 2-7

Free Miner's Certificate No. 80246 Date issued 13th May, 1969

Free Miner's Certificate No. 80616 Date issued May 21/69

make oath and say:—

I have done, or caused to be done, work on the Mead No. 3 Group of Claims as listed in Appendix No. 2 Mead # 65-76, 91-104 Mineral Claim(s)

Record No.(s) 14862 - 14873, 14837 - 14850

situate at West of Jordan River Mouth - South West Vancouver Island

in the Victoria Mining Division, to the value of at least Twenty Eight Hundred dollars, since the 15th day of February, 1969

The following is a detailed statement of such work:—

(Set out full particulars of the work done in the twelve months in which such work is required to be done.)

GEOLOGICAL SURVEY

Field Investigation and Audit Check of previous mapping covering approximately 2.2 square miles photogeological interpretation

GEOCHEMICAL SURVEY

Soil sampling of approximately 183 Samples Copper and Nickel Determination of 183 Samples Application for 26 Certificates of Work

X MEAD 65-69 GEOLOGICAL (1 yr wa)

That I have not and will not use the work declared herein in any way for the purposes of obtaining tax exemption on a Crown-granted mineral claim under the terms of the Taxation Act.

Subscribed to at VANCOUVER, B. C. this day of 19 before me Sub-Mining Recorder

Signature of D.W. Milburn

JAN 29 1970

\* This affidavit may be taken by a person empowered to take affidavits by the Evidence Act of British Columbia.



THE GOVERNMENT OF  
THE PROVINCE OF BRITISH COLUMBIA

DEPARTMENT OF MINES  
AND PETROLEUM RESOURCES

MINERAL ACT  
FORM B

SUB - MINING RECORDER

RECEIVED

JAN 29 1969

M.R. # 35298

VANCOUVER, B. C.

**Affidavit on Application for Certificate of Work**

I, D. W. Milburn  
(Name.)  
23924 - 68th Avenue  
(Address.)  
R.R. #6, Langley, B.C.

Agent for Curtis J. Roberts  
(Name.)  
500 Jefferson Bldg.  
(Address.)  
Victoria, B.C.

*Handwritten initials*

Free Miner's Certificate No. 80246

Free Miner's Certificate No. 80616

Date issued 13th May, 1969

Date issued May 21/69

make oath and say:—

I have done, or caused to be done, work on the Mead No. 4 Group of Claims  
as listed in Appendix 2. Mead #45-52, 55-62. Mineral Claim(s)

Record No.(s) 14846 - 14861 B

situate at West of Jordan River Mouth - South West Vancouver Island

in the SIXTEEN Seventeen Hundred and no dollars, since the 15th 19 day of February, 19 69  
Mining Division, to the value of at least

*Handwritten initials*

The following is a detailed statement of such work:—

(Set out full particulars of the work done in the twelve months in which such work is required to be done.)

**GEOLOGICAL SURVEY**

Field Investigation and Audit Check of previous  
mapping covering approximately 1.4 square miles  
photogeological interpretation

**GEOCHEMICAL SURVEY**

Soil sampling of approximately 113 Samples  
Copper and Nickel Determination of 113 Samples  
Application for 16 Certificates of Work

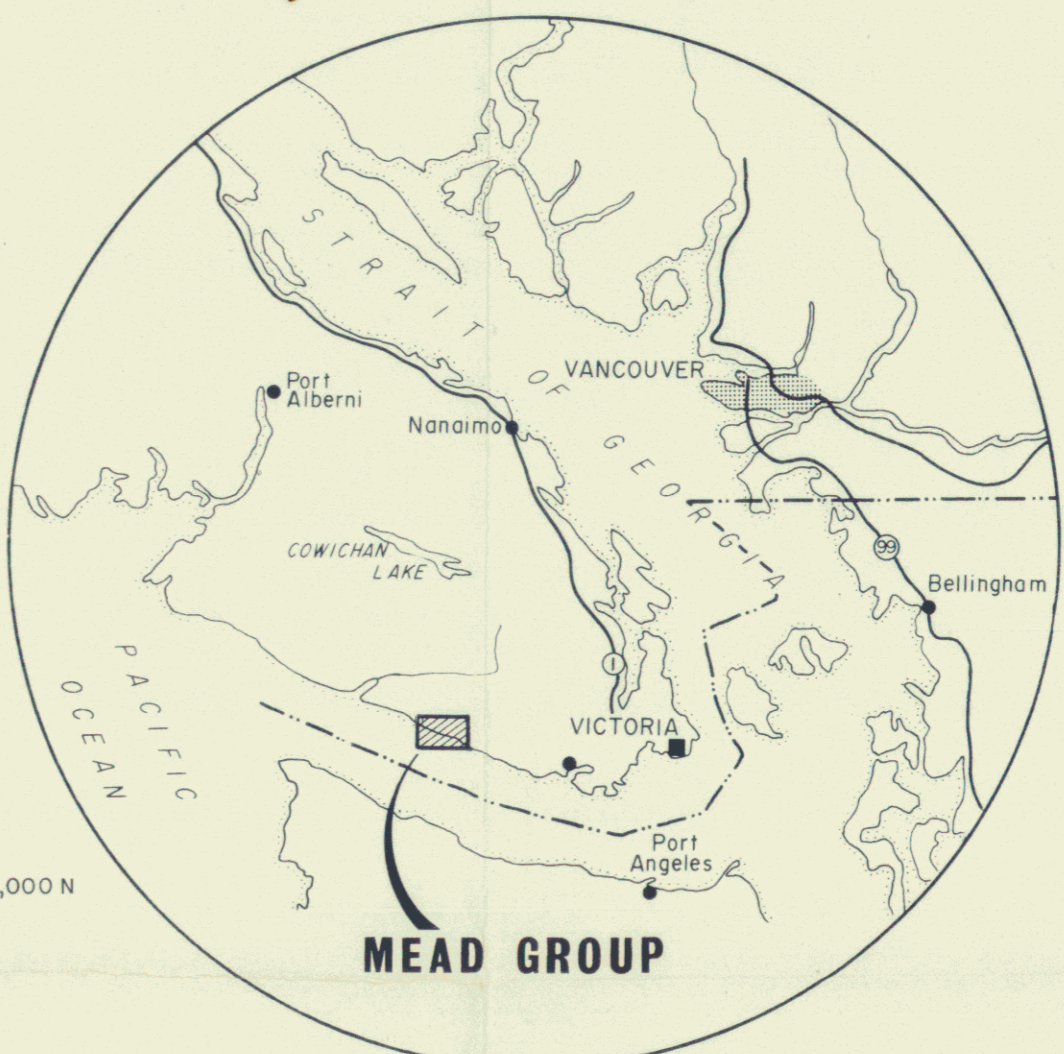
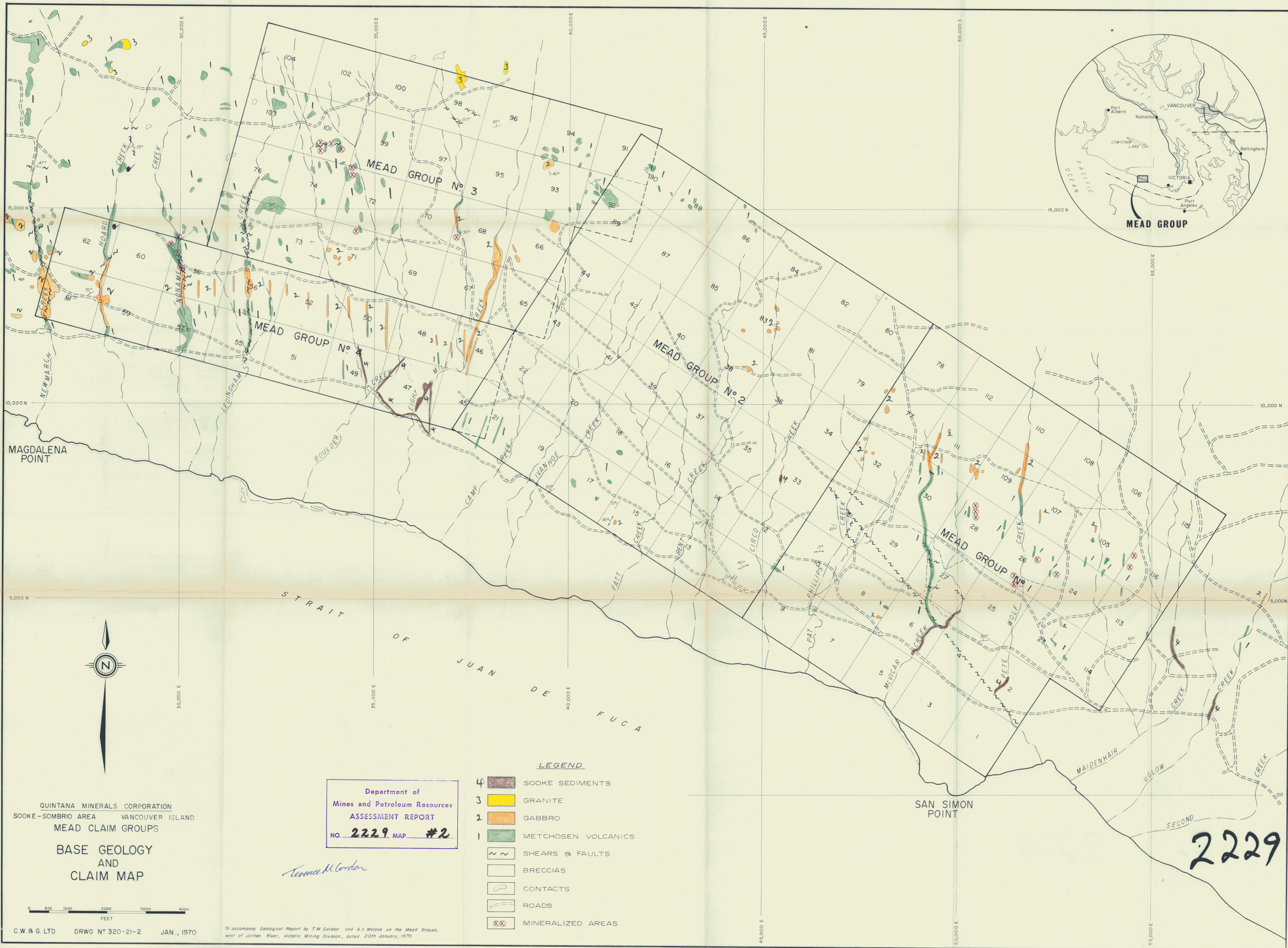
MEAD 45-52 GEOLOGICAL (17 R.M.)

That I have not and will not use the work declared herein in any way for the purposes of obtaining tax  
exemption on a Crown-granted mineral claim under the terms of the *Taxation Act*.

ORN and subscribed to at VANCOUVER, B. C.  
this..... day of.....  
19....., before me— Jill Jensen  
Mining Recorder

*Signature of D.W. Milburn*

\* This affidavit may be taken by a person empowered to take affidavits by the *Evidence Act* of British Columbia.



MAGDALENA POINT

SAN SIMON POINT

STRAIT OF JUAN DE FUCA

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 2229 MAP #2

*Tennant Gordon*

LEGEND

- 4 SOOKE SEDIMENTS
- 3 GRANITE
- 2 GABBRO
- 1 METCHOSEN VOLCANICS
- ~ ~ SHEARS & FAULTS
- BRECCIAS
- CONTACTS
- ROADS
- ⊗ MINERALIZED AREAS

QUINTANA MINERALS CORPORATION  
SOOKE-SOMBRIO AREA VANCOUVER ISLAND  
MEAD CLAIM GROUPS

BASE GEOLOGY  
AND  
CLAIM MAP

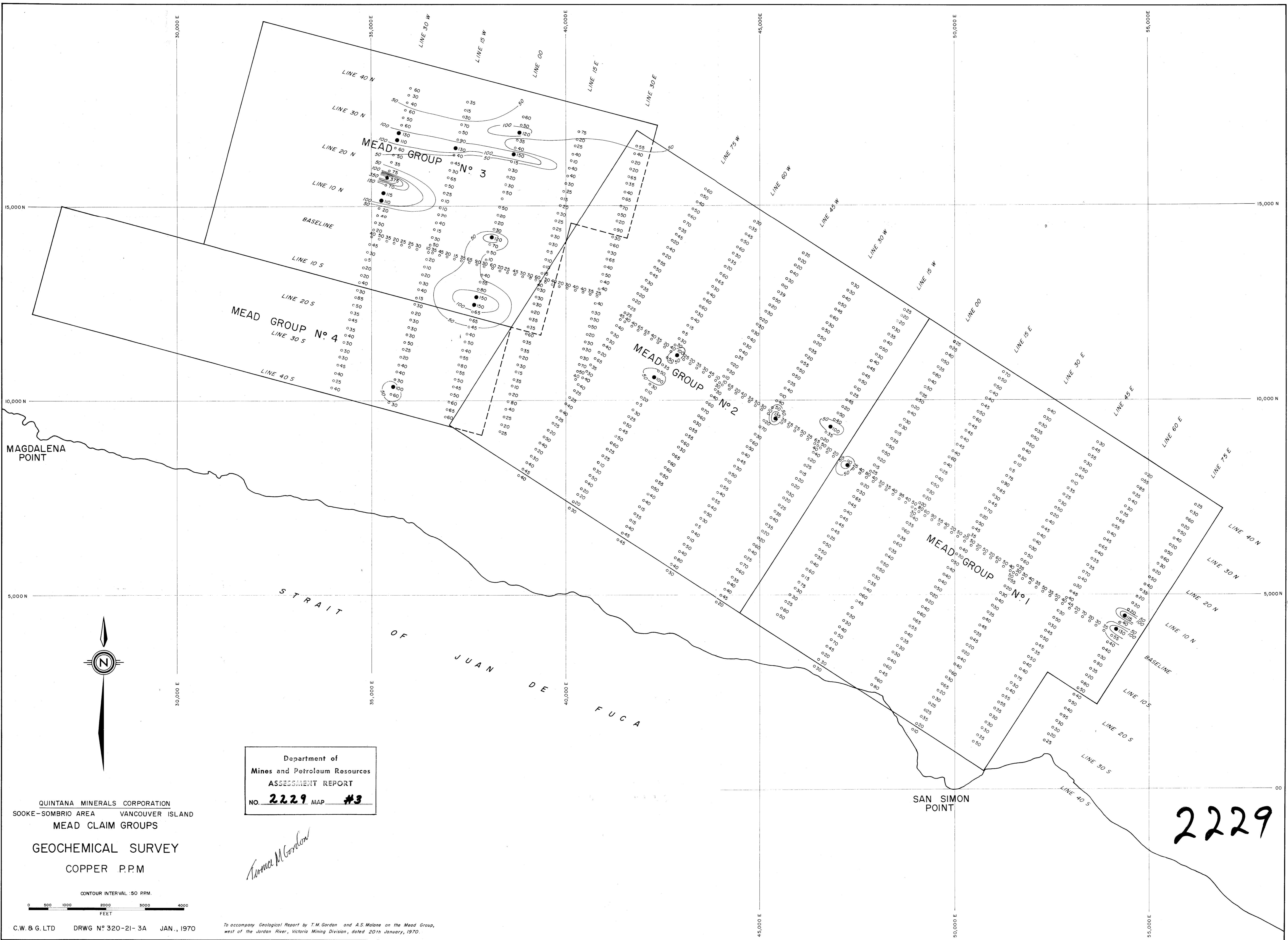
0 500 1000 2000 3000 4000  
FEET

C.W. & G. LTD. DRWG N° 320-21-2 JAN., 1970

To accompany Geological Report by T.M. Gordon and A.S. Malone on the Mead Groups, west of Jordan River, Victoria Mining Division, dated 20th January, 1970

2229





MAGDALENA POINT

STRAIT OF JUAN DE FUCA

SAN SIMON POINT

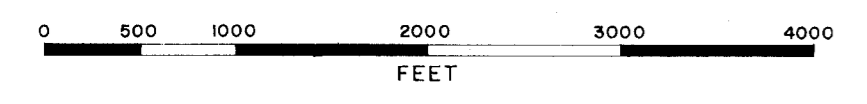
2229

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. **2229** MAP. **#3**

*Thomas M. Gordon*

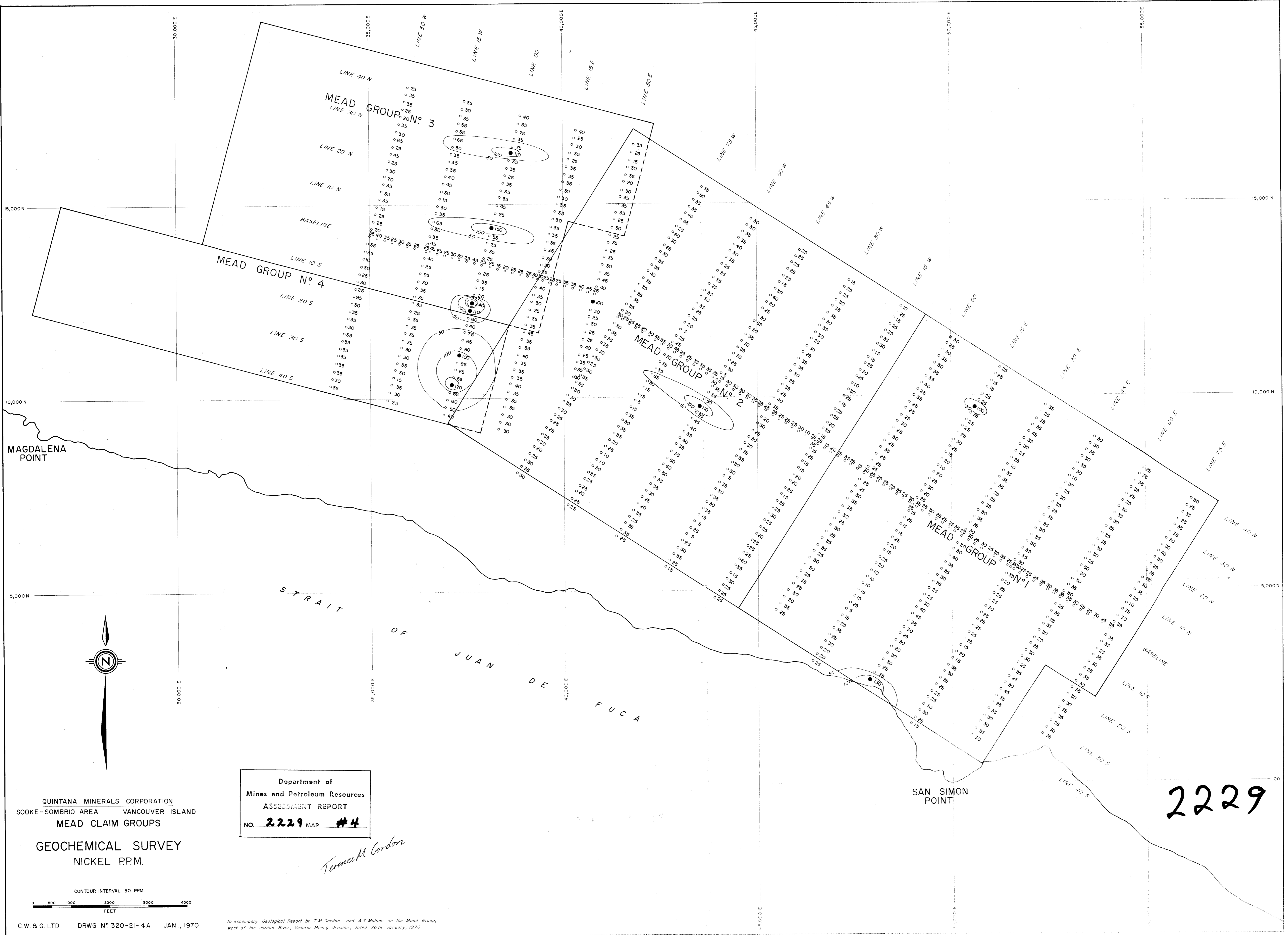
QUINTANA MINERALS CORPORATION  
Sooke-Sombrio Area VANCOUVER ISLAND  
MEAD CLAIM GROUPS  
GEOCHEMICAL SURVEY  
COPPER P.P.M

CONTOUR INTERVAL: 50 PPM



C.W. & G. LTD DRWG N° 320-21- 3A JAN., 1970

To accompany Geological Report by T.M. Gordon and A.S. Malone on the Mead Group, west of the Jordan River, Victoria Mining Division, dated 20th January, 1970.



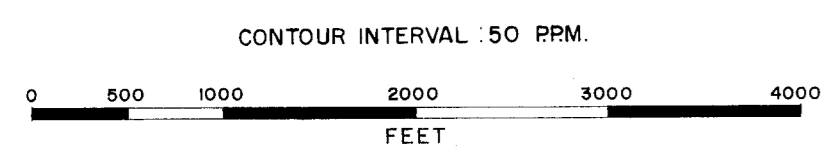
2229

QUINTANA MINERALS CORPORATION  
 SOOKE-SOMBRIO AREA VANCOUVER ISLAND  
 MEAD CLAIM GROUPS

GEOCHEMICAL SURVEY  
 NICKEL P.P.M.

Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. 2229 MAP #4

*Tennel M Gordon*



To accompany Geological Report by T.M. Gordon and A.S. Malone on the Mead Group, west of the Jordan River, Victoria Mining Division, Iss'd 20th January, 1970.