



VANCOUVER ADDRESS:
1575 TWO BENTALL CENTRE, VANCOUVER 1, B.C.

2592

TELEPHONE 374-6263
TELEX 048-8191

August 24th, 1970

Chief Gold Commissioner
Department of Mines & Petroleum Resources
Parliament Buildings
Victoria, B.C.

Dear Sir:

Previous to this Geochemical Report on the Bill #1 to #6, inclusive, Claims situated in the McDame Area, Laird Mining Division, North-Central B.C., an Affidavit on Application for Certificate of Work was sworn at Kamloops and sent to you with a note "report to follow".

Upon completion of analysis and interpretations, this report I now submit.

A cheque for \$10.00 was mistakenly enclosed with Application For Certificate Of Work. Please find enclosed a cheque for \$50.00 to cover recording of assessment work.

Respectfully submitted,

VERSATILE MINING SERVICES LTD.

Terrence D. Marshall

Terrence D. Marshall, C.E.T.

TDM*sl

Enclosures

T A B L E O F C O N T E N T S

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- I Personnel & Dates Worked
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Certificate of Qualification

List of Illustrations:

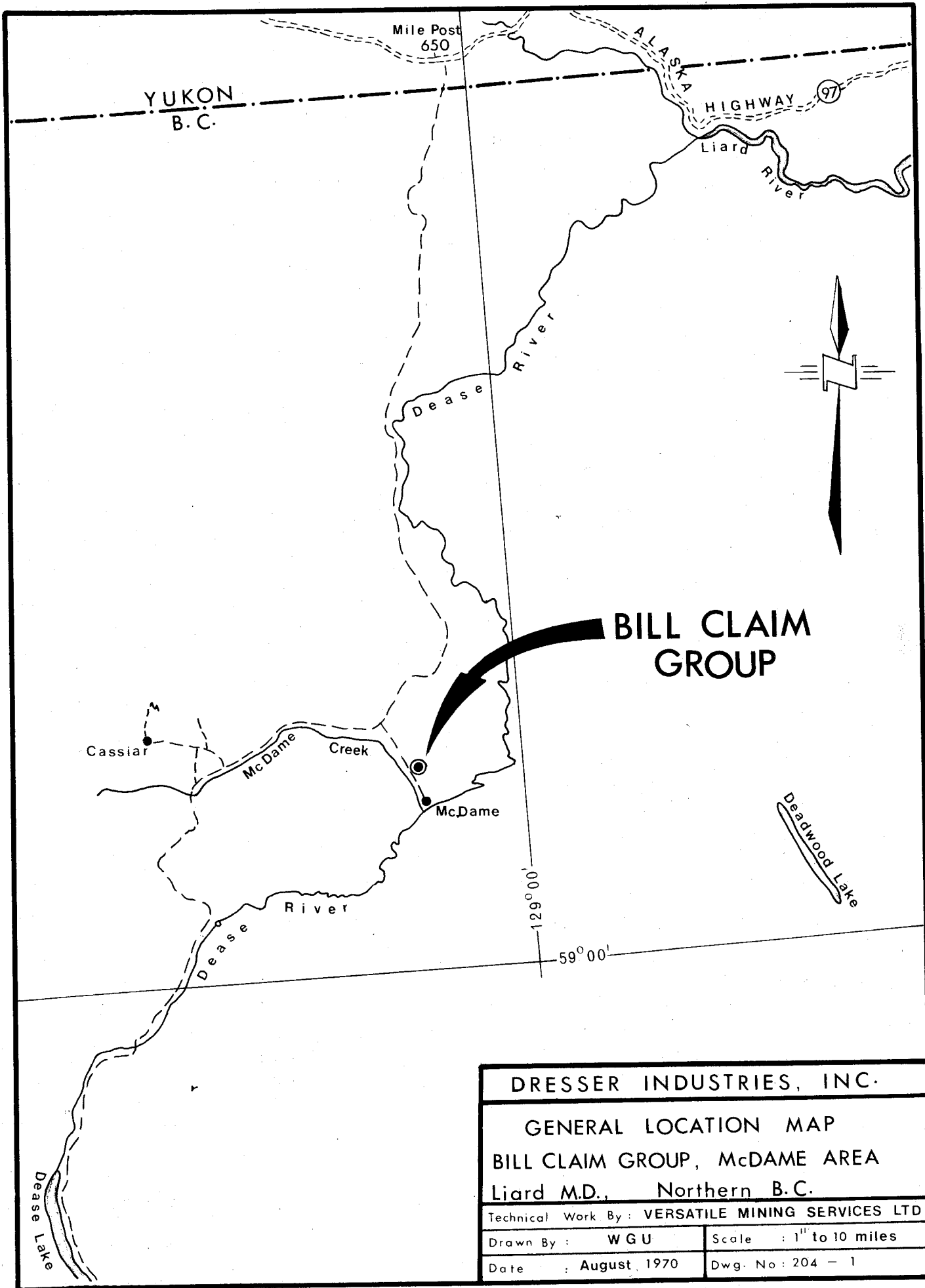
- #1 Fig. 1 Location Map — *in report*
#2 Fig. 2 Claim Location Map — " "
#3 Fig. 3A Geo-chem Base Map — *Copper Analyses (Rear Pocket)*
#4 Fig. 3B " " " " — *Lead* (" ")
#5 Fig. 3C " " " " — *Zinc* (" ")

**Department of
Mines and Petroleum Resources
ASSESSMENT REPORT**

NO. 2592 MAP _____

ABSTRACT

This report is designed to present information to the B. C. Government (Mining Division) for assessment work on the "Bill Claim Group" situated in the McDame Area, Laird M.D., North Central B. C., Latitude 59° N., Longitude 129° W., N. T. S. 104P (W 1/2). A geochemical soil sampling program was carried out by Versatile Mining Services Ltd., complete with results, interpretation and maps. The report mainly outlines location, access, geomorphology, soil sampling program, and interpretation.

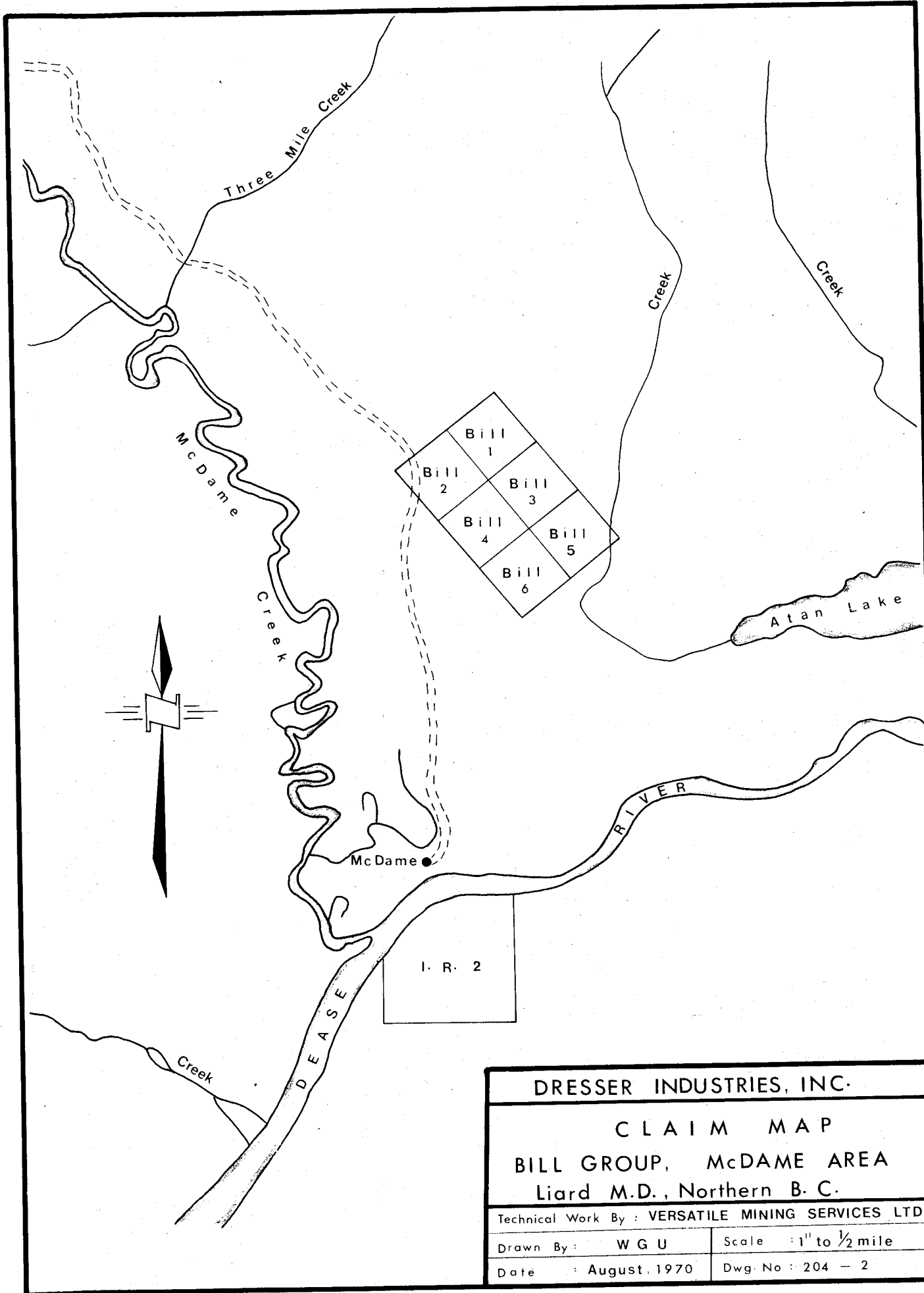


DRESSER INDUSTRIES, INC.	
GENERAL LOCATION MAP	
BILL CLAIM GROUP, McDAME AREA	
Liard M.D., Northern B.C.	
Technical Work By : VERSATILE MINING SERVICES LTD	
Drawn By : WGU	Scale : 1" to 10 miles
Date : August, 1970	Dwg. No : 204 - 1

INTRODUCTORY NOTE

During August 8th and 9th, a two-man field crew, under supervision of a P. Eng., completed a geochemical soil sampling programme on the Bill #1 to #6 inclusive claims, McDame, B. C.

The claims are owned by Dresser Industries Inc., and field work was completed by Versatile Mining Services Ltd., under the supervision of Mr. J. Kerr, P. Eng. Data processing was conducted by the author and interpretation by J. Kerr. The following paragraphs describe the field procedures and discusses the results of the surveys.



DRESSER INDUSTRIES, INC.	
CLAIM MAP	
BILL GROUP, McDAME AREA	
Liard M.D., Northern B. C.	
Technical Work By : VERSATILE MINING SERVICES LTD	
Drawn By : W G U	Scale : 1" to 1/2 mile
Date : August, 1970	Dwg. No : 204 - 2

LOCATION AND ACCESS

The Bill claim group is situated 1 1/4 miles north of the abandoned McDame Post (on the Dease River) in north central British Columbia. Normal access is from Mile Post 650 on the Alaska Highway (west of Watson Lake, Yukon), south on the Cassiar Mine Road to the junction of the Cassiar and McDame Post roads, thence south again to the claims. The road extends through the northwest corner of Bill #2 claim (see Location Map, Figure 1.).

CLAIMS AND OWNERSHIP

The Bill #1 to #6 claims, Liard M. D. are owned by Dresser Industries Inc., Suite 301, 415 - 3rd Street, Southwest, Calgary 1, Alberta.

CLAIM DATA

Claim Names

Bill #1 to #4 inclusive

Bill #5 to #6

Record Numbers

15148 to 15151 inclusive

18874 and 18875

PHYSIOLOGY : (The organic processes and phenomena of an organism !!!)

Mountains in the area are above 6,000' in elevation, Blackfox Mountain being the highest peak (7,022'), situated west of McDame. Glaciation has left a series of cirques on the north and northeast sides. Below 6,000', and on southern exposures, slopes are more gentle and rounded.

The vegetation of the area consists mainly of heavily wooded slopes of Poplar and Jack Pine, and Muskeg in various hollows to the valley floor.

The Bill group is situated near the 2,500' contour, on the southwest slope of an un-named mountain, to the north of Atan Lake.

Glacial overburden is generally thin.

GENERAL GEOLOGY

The Bill claims are situated in the ~~Striking~~ ^{Stikine} Range of the Cassiar Mountain series of British Columbia. The general area is underlain dominantly by upper Paleozoic to lower Mesozoic miogeosynclinal rock sequences which are highly folded and faulted. These rocks are intruded by small ultra basic plugs, and acetic intrusives. *who dat?*

PROGRAM

The basic program consisted of a geochemical soil survey along the claim line and crosslines at every 400'. These crosslines were extended 600' to the east, and 600' to the west of the claim line. Usually thirteen samples were taken (at 100' intervals) per line from LINE 0 (FINAL CLAIM POST BILL 5 & 6) to LINE 40 (north). (See figure 3, Base Map).

Soil horizon, type, texture, and colours were noted in the field.

Samples were then shipped to Barringer Research Ltd., 1198 West Pender Street, Vancouver, B. C. for analysis. Assay results are plotted on three maps. Copper (ppm), Lead (ppm), and Zinc (ppm).

RESULTS - GEOCHEMICAL SURVEY

Results are based on a method of estimating a provisional value for threshold from limited background data.

See Maps 204 - 3a, 3b, 3c, in cover envelope.

GEO-CHEM EVALUATION TABLE FOR
TOTAL COPPER

Metal Content (ppm)	Number of Observations	
5	32	Median or Mean
15	76	Background = 17 ppm
25	22	
35	3	
45	2	
<hr/>		
55	2	Threshold Value
65	0	(Exceeded by 2.5% of
75	1	total observations)

Total 139		= 55 ppm

2 values considered erratic, sample No.'s 84, 96.

GEO-CHEM EVALUATION TABLE FOR
TOTAL LEAD

Metal Content (ppm)	Number of Observations	
10	5	
20	88	Median or Mean Back- ground = 30 ppm
30	22	
40	5	
50	2	
60	3	
70	3	
80	2	
90	1	
100	1	
125	2	Threshold Value (exceeded by 2.5% of total useable observations) = 115 ppm
175	1	
Total 135		

6 Values considered erratic, sample No.'s 84, 85, 94 to 97 inclusive.

GEO-CHEM EVALUATION TABLE FOR
TOTAL ZINC

Metal Content (ppm)	Number of Observations	
25	9	
75	39	
125	27	
175	28	
225	15	
275	9	
<hr/>		
325	5	
375	1	
425	2	

Total 135		

Median or Mean
Background = 155 ppm

Threshold Value
(exceeded by 2.5% of
total useable observations)
= 300 ppm

6 Values considered erratic, sample No.'s 83, 94 to 97 inclusive, and 115.

APPENDIX I

SUMMARY AND CONCLUSIONS

During August 8th to August 13th, 1970, a two man field crew completed a geochemical survey on the six contiguous Bill claims, Land M.D. The claims are located 1 1/4 miles north of McDame Post which is situated on the south shore of the Dease River, Northern B. C. Normal access is by road from Mile 650 on the Alaska Highway. The Bill claims are owned outright by Dresser Industries Inc., of Calgary, Alberta.

A total of 141 samples were collected and analyzed for copper, lead, and zinc. High values were obtained over known outcrops and therefore were considered erratic in the evaluation of the unknown ground.

APPENDIX II

PERSONNEL AND DATES WORKED

The following Personnel were employed on the Bill claims in August, 1970 Geo-chem survey.

<u>NAME</u>	<u>OCCUPATION</u>	<u>COMPANY</u>	<u>DATES</u>
T. Marshall	Technician	Versatile Mining Services Ltd.	Aug. 9 & 10
A. Smith	Geologist	Versatile Mining Services Ltd.	Aug. 9 & 10
J. Kerr	P. Eng.	Versatile Mining Services Ltd.	Aug. 21
T. Marshall	Drafting	Versatile Mining Services Ltd.	Aug. 11 & 12
W. Ulanday	Drafting	Versatile Mining Services Ltd.	Aug. 12 & 13

COST BREAKDOWN

The following costs were incurred during August, 1970,
Geo-chem Soil Sampling survey of the Bill claims.

WAGES:

A. Smith, Geologist	
2 days @ \$75.00/day	\$ 150.00
T. Marshall, Technician	
2 days @ \$75.00/day	150.00

SOIL ANALYSIS COST:

141 samples analyzed for Cu, Pb, & Zn.	308.00
--	--------

<u>COST OF REPORT:</u>	50.00
------------------------	-------

TOTAL:	\$ 658.00
--------	-----------

Assessment work to be applied to Bill #1 to #6 inclusive
for one year.

Refer to Certificate of Work.



THE GOVERNMENT OF
THE PROVINCE OF BRITISH COLUMBIA

DEPARTMENT OF MINES
AND PETROLEUM RESOURCES

MINERAL ACT
FORM B

Affidavit on Application for Certificate of Work

I, Alex Smith Agent for Dresser Industries Inc.
(Name.) (Name.)
c/o Versatile Mining Services Ltd. 301-415-3rd St., S.W.
(Address.) (Address.)
P.O. Box 609, Kamloops, B.C. Calgary, Alberta
 Free Miner's Certificate No. 79618 Free Miner's Certificate No. 90570
 Date issued June 22, 1970 Date issued April 24, 1970

make oath and say:—

I have done, or caused to be done, work on the Bill 1-6 Group

Mineral Claim(s)

Record No.(s) 15148M - 15151M; 18874K, 18875K

situate at McDame, B.C.

in the Liard Mining Division, to the value of at least
six*

~~xxx~~ hundred dollars, since the 22nd day of August, 19 69

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.)

Geochemical survey of Bill Group (6 claims) with 141 samples taken and
analyzed by Barringer Research Ltd. lab for Lead, Copper, Zinc, and
Antimony by hot extraction total metals method.

Measuring by atomic absorption	308.00
--------------------------------	--------

Cost of Survey: 2 men -- 2 days	300.00
---------------------------------	--------

Cost of Report	50.00
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TOTAL	\$658.00
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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 _____
 this _____ day of _____
 19____, before me—
 *

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

APPENDIX III

GEO-CHEM FIELD DATA

VERSATILE MINING SERVICES - GEOCHEMICAL SAMPLES

POSTING MAPS:

STREAM SIZE: Large (10 cuft./sec.), Medium (5 cuft./sec.), Small (1 cuft./sec.), Trickle

RESULTS: Extractable Cu, Mo, etc.; Total (TTL.) Cu, Mo, etc; Heavy Metals (Incl. Pb, Zn, Cu)

Assayed by _____

Date	Collector	Sample Number	LOCATION (INCL. FIELD MAP)	SAMPLE DATA							NOTES	RESULTS			
				Gravel	Sand	Silt	Clay	Organic	Soil Horizon	Stream Size					
Aug 9	JM	L-0 0+00	7		✓					B					
		L-0 1+00W	6		✓					B					
		L-0 2+00W	5			✓				B	R.B.				
		L-0 3+00W	4			✓				B	R.B.				
		L-0 4+00W	3			✓				B					
		L-0 5W	2			✓				B					
		L-0 6W	1			✓				B					
		L-0	8			✓				B					
		L-0	9			✓				B	R.B.				
		L-0	10			✓				B					
		L-0	11			✓				B					
		L-0	12			✓				B					
		L-0	13			✓				B					

VERSATILE MINING SERVICES - GEOCHEMICAL SAMPLES

POSTING MAPS:

STREAM SIZE: Large (10 cuft./sec.), Medium (5 cuft./sec.), Small (1 cuft./sec.), Trickle

RESULTS: Extractable Cu, Mo, etc.; Total (TTL.) Cu, Mo, etc; Heavy Metals (Incl. Pb, Zn, Cu)

Assayed by _____

Date	Collector	Sample Number	LOCATION (INCL. FIELD MAP)	SAMPLE DATA							NOTES	RESULTS			
				Gravel	Sand	Silt	Clay	Organic	Soil Horizon	Stream Size					
		12-6	26 Water					✓	A.						
		12-7	25 R. D. ...		✓	✓			B.						
		12-8	24		✓				C.						
		12-9	23				✓		R.						
		12-10	22		✓				B.						
		12-11	21		✓				B.						
		12-12	20		✓				C.						
		12-13	19		✓				C.						
		12-14	18				✓		E.						
		12-15	17				✓		E.						
		12-16	16				✓		C.						
		12-17	15					✓	C.						
		12-18	14					✓	C.						

VERSATILE MINING SERVICE - GEOCHEMICAL SAMPLES


POSTING MAPS: _____

STREAM SIZE: Large (10 cuft./sec.), Medium (5 cuft./sec.), Small (1 cuft./sec.), Trickle

RESULTS: Extractable Cu, Mo, etc.; Total (TTL.) Cu, Mo, etc; Heavy Metals (Incl. Pb, Zn, Cu)

Assayed by _____

Date	Collector	Sample Number	LOCATION (INCL. FIELD MAP)	SAMPLE DATA							NOTES	RESULTS						
				Gravel	Sand	Silt	Clay	Organic	Soil Horizon	Stream Size								
		12L-6F	SAM # 116 12L-6F 40°	✓					B									
		12L-5F	12L-5F 50			✓			B									
		12L-4F	12L-4F 49						C									
		12L-3F	12L-3F	-----														
		12L-2F	12L-2F 48						C									
		12L-1F	12L-1F 47			✓			B									
		12L-0+00	12L-0+00	-----														
		12L-1W	12L-1W 46						C									
		12L-2W	12L-2W 45						B									
		12L-3W	12L-3W 44						C									
		12L-4W	12L-4W 43						B									
		12L-5W	12L-5W 42						B									
		12L-6W	12L-6W 41	✓					C									
		12L-7W	40			✓		✓	B									



 Poor
 fell off!

VERSATILE MINING SERVICES - GEOCHEMICAL SAMPLES

POSTING MAPS: _____

STREAM SIZE: Large (10 cuft./sec.), Medium (5 cuft./sec.), Small (1 cuft./sec.), Trickle

RESULTS: Extractable Cu, Mo, etc.; Total (TTL.) Cu, Mo, etc; Heavy Metals (Incl. Pb, Zn, Cu)

Assayed by _____

Date	Collector	Sample Number	LOCATION (INCL. FIELD MAP) Sam #	SAMPLE DATA						Stream Size	NOTES	RESULTS			
				Gravel	Sand	Silt	Clay	Organic	Soil Horizon						
		L20-6W	64			✓	✓		B		G.B. - GREY BROWN				
		L20-5W	65			✓	✓		B		B.				
		L20-4W	66			✓	✓		B		R.B.				
		L20-3W	67			✓	✓		B		B				
		L20-2W	68			✓	✓		B		B				
		L20-1W	69			✓	✓	✓	B		R.B.				
		L20-0+00	70			✓	✓		B		R.B.				
		L20-1E	71			✓	✓		B		R.B.				
		L20-2E	72		✓	✓	✓	✓	B		R.B.				
		L20-3E	73		✓	✓			B		B				
		L20-4E	74			✓	✓		B		R.B.				
		L20-5E	75			✓	✓		B		R.B.				
		L20-6E	76				✓	✓	B		B				

VERSATILE MINING SERVICES - GEOCHEMICAL SAMPLES

POSTING MAPS: _____

STREAM SIZE: Large (10 cuft./sec.), Medium (5 cuft./sec.), Small (1 cuft./sec.), Trickle

RESULTS: Extractable Cu, Mo, etc.; Total (TTL.) Cu, Mo, etc; Heavy Metals (Incl. Pb, Zn, Cu)

Assayed by _____

Date	Collector	Sample Number	LOCATION (INCL. FIELD MAP)	SAMPLE DATA						Stream Size	NOTES	RESULTS			
				Gravel	Sand	Silt	Clay	Organic	Soil Horizon						
		117	L 36 6W			✓		✓	B		B-R				
		118	5W			✓	✓				R-B				
		119	4W		✓	✓					R-B				
		120	3W		✓	✓					R-B				
		121	2W			✓		✓			R-B				
		122	1W				✓	✓			R-B				
		123	0			✓	✓				B.				
		124	2 F	✓	✓	✓		✓			G-B				
		125	3 F		✓	✓	✓				G-B				
		126	4 F		✓	✓					G-B				
		127	5 F					✓			G-B				
		128	6 F			✓					B				

APPENDIX IV

Geo-chemical Laboratory Report



BARRINGER RESEARCH LIMITED
 304 CARLINGVIEW DRIVE
 METROPOLITAN TORONTO
 REXDALE, ONTARIO, CANADA
 PHONE: 416-677-2491
 CABLE: BARESEARCH

GEOCHEMICAL LABORATORY REPORT NO. 177-8

DATE

SAMPLE NO.	Tot Cu ppm	Tot Pb ppm	Tot Zn ppm
00091	18	21	120
92	11	15	70
93	13	17	75
94	54	4040	625
95	56	264	1065
96	216	1800	1140
97	47	626	695
98	13	40	139
99	16	71	450
00100	17	59	250
01	25	147	271
02	12	75	75
03	16	17	110
04	17	17	153
05	16	17	168
06	10	19	205
07	17	17	95
00108	24	34	132



BARRINGER RESEARCH LIMITED
 304 CARLINGVIEW DRIVE
 METROPOLITAN TORONTO
 REXDALE, ONTARIO, CANADA
 PHONE: 416-677-2491
 CABLE: BARESEARCH

GEOCHEMICAL LABORATORY REPORT NO. 177-8 DATE

SAMPLE NO.	Tot. Cu. ppm	Tot. Pb. ppm	Tot. Zn. ppm
00109	10	21	55
110	13	23	45
111	16	67	95
112	27	121	228
113	15	83	153
114	21	101	198
115	16	77	660
116	29	21	153
117	11	19	105
118	17	21	168
119	11	19	243
00120	14	21	183
121	11	17	85
122	13	19	168
123	16	19	110
124	29	57	260
125	15	31	50
00126	13	23	60

BIBLIOGRAPHY

Cochrane, D. R., P. Eng., Geophysical Report, McDame Area
January, 1968.

Hawkes, H. E., and Webb, J. S., Geochemistry in Mineral Exploration,
Harper & Row, Publishers Inc., New York.

CERTIFICATE OF QUALIFICATION

I, TERRENCE D. MARSHALL, of Box 609, Kamloops, B. C.
DO HEREBY CERTIFY THAT:

1. I am a practicing Geologic Technician and have been for the past two years.

2. I am a graduate from the Southern Alberta Institute of Technology, and also the Northern Alberta Institute of Technology, and have been granted Inter-Provincial Diplomas in Drafting Technology and Exploration Geology and have been practicing in the Exploration Field for four years.

3. I have no interest in Dresser Industries Inc., nor in the property held by them as per this report.

4. I am a member of The Alberta Society of Engineering Technologists, Geophysical Society of Edmonton, and a junior member of The Canadian Institute of Mining and Metallurgy.

5. This report is based on my personal experience on the property under supervision of J. Kerr, P. Eng., in August, 1970, and work conducted on behalf of Dresser Industries Inc.

Respectfully Submitted

T. D. Marshall

T. D. Marshall, C. E. T.



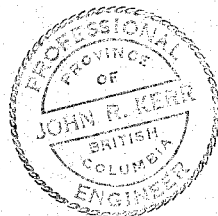
TELEPHONE 374-6263
TELEX 048-8191

VANCOUVER ADDRESS:
1575 TWO BENTALL CENTRE, VANCOUVER 1, B.C.

STATEMENT OF QUALIFICATIONS

I, JOHN R. KERR, of Kamloops, B.C., HEREBY CERTIFY THAT:

1. I am a member of the Association of Professional Engineers in the Province of British Columbia.
2. I am a geologist residing at 295 Greenstone Drive, Kamloops, B.C., and employed by Versatile Mining Services Ltd., P.O. Box 609, Kamloops, B.C.
3. I have practiced as a geologist for 6 years since graduation from the University of British Columbia in 1964 with a B.A. Sc. in Geological Engineering.
4. The crew and work programme mentioned in this report were completed under my supervision. I personally assisted with compilation and interpretation of the results.
5. I have no beneficial interest in Dresser Industries Inc., or the mineral claims described in this report, nor do I expect to receive any.



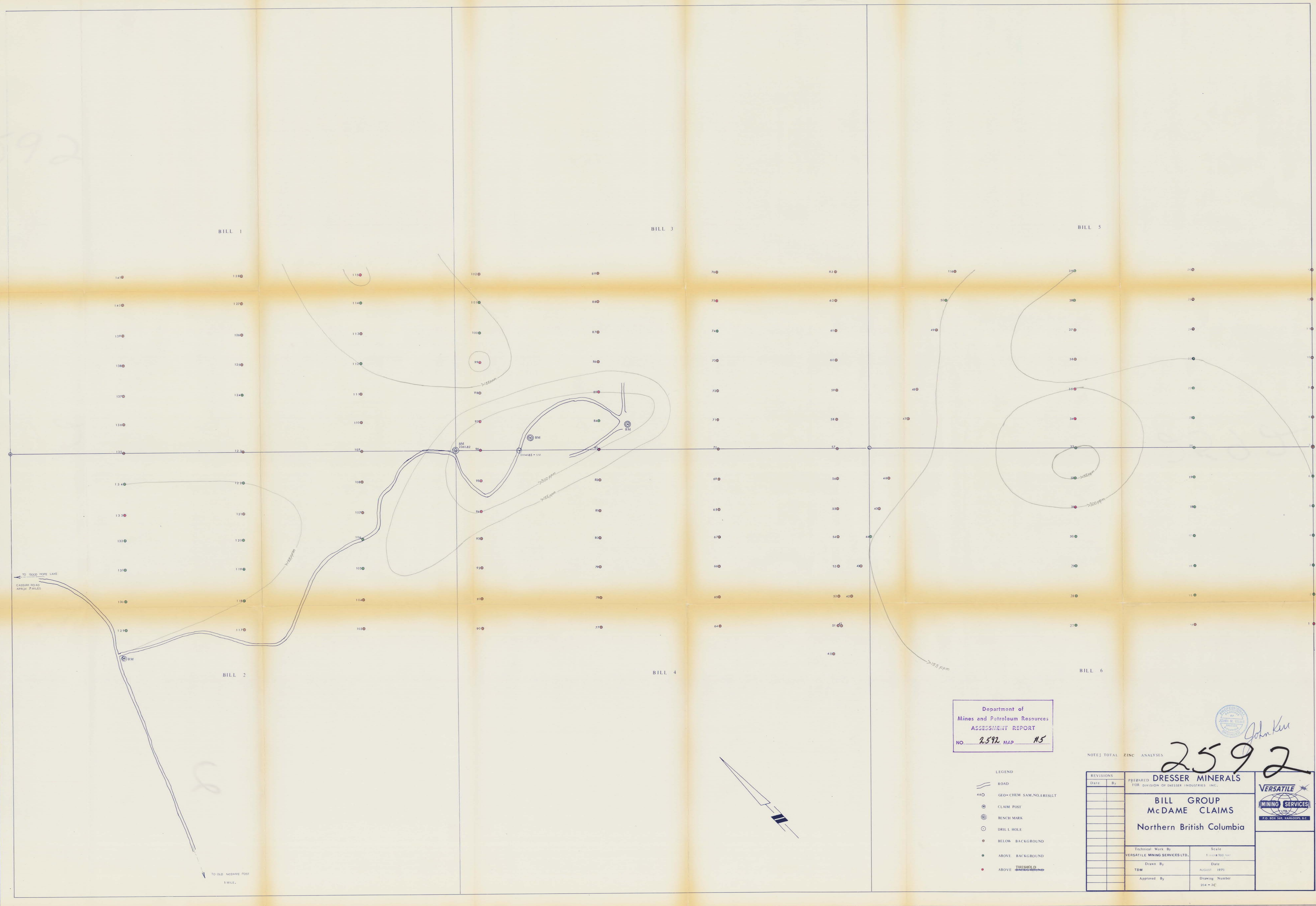
John Kerr

John R. Kerr, P. Eng.

VERSATILE MINING SERVICES LTD.

Kamloops, B.C.
August, 1970

2592



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2592 MAP H5

- LEGEND
- ══ ROAD
 - 4xO GEO-CHEM SAM. NO. & RESULT
 - ⊙ CLAIM POST
 - ⊙ BENCH MARK
 - DRILL HOLE
 - BELOW BACKGROUND
 - ABOVE BACKGROUND
 - ABOVE THRESHOLD

NOTE: TOTAL ZINC ANALYSIS

REVISIONS	
Date	By

2592

John Ken

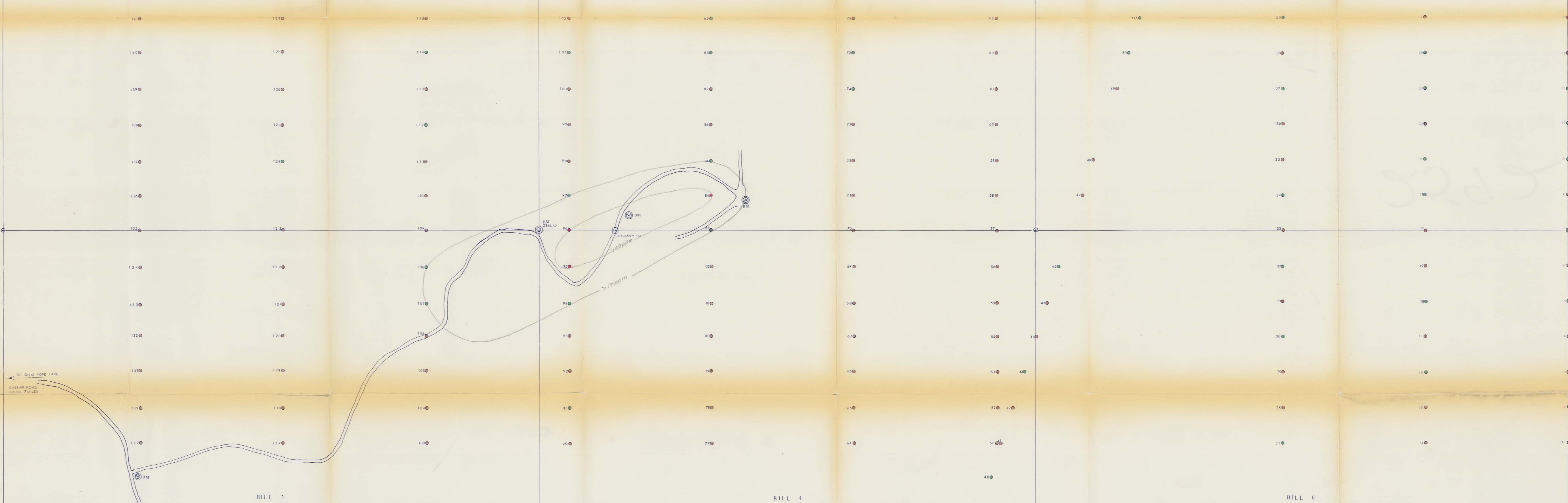
REGISTERED
JOHN KEN
1970

PREPARED BY DRESSER MINERALS FOR DIVISION OF DRESSER INDUSTRIES INC.		 <small>P.O. BOX 545 KAMLOOPE, B.C.</small>
BILL GROUP McDAME CLAIMS Northern British Columbia		
Technical Work By VERSATILE MINING SERVICES LTD.	Scale 1" = 100' HORIZ.	
Drawn By TDM	Date AUGUST 1970	
Approved By	Drawing Number 204 - J.C.	

2592

2592

2592



Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 2592 MAP #3

- LEGEND
- ROAD
 - 460 GEO-CHEM SAM. NO. & RESULT
 - CLAIM POST
 - BENCH MARK
 - DRILL HOLE
 - BELOW BACKGROUND
 - ABOVE BACKGROUND
 - ABOVE THRESHOLD

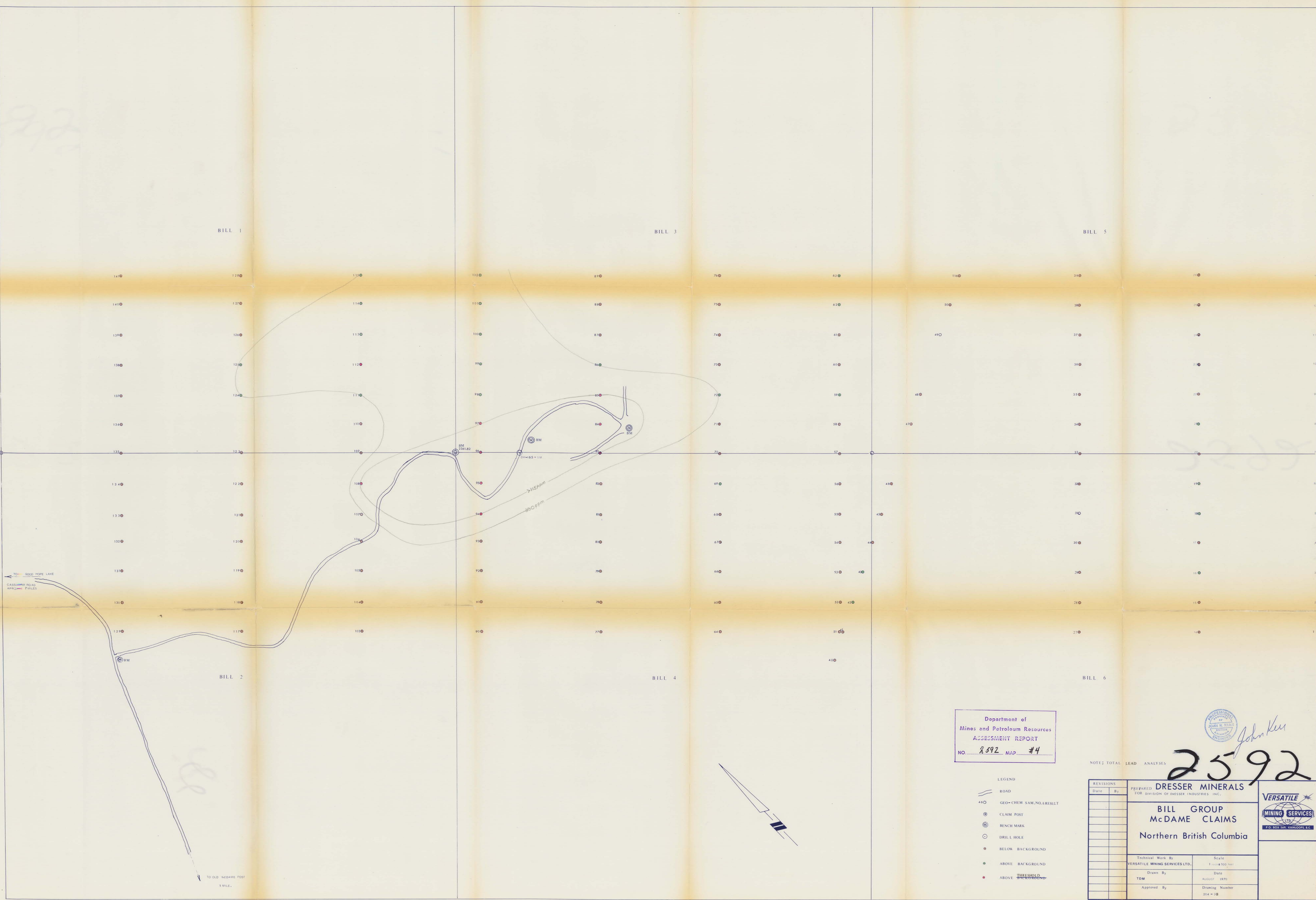
NOTE: TOTAL COPPER ANALYSES

2592

John Kerr

REVISIONS		PREPARED BY		SCALE	
Date	By	DRESSER MINERALS FOR DIVISION OF DRESSER INDUSTRIES INC.		1:50,000	
		BILL GROUP McDAME CLAIMS		Date AUGUST 1979	
		Northern British Columbia		Drawing Number 204-5A	
		Technical Work By VERSATILE MINING SERVICES LTD.		Scale 1:50,000	
		Drawn By TOM		Date AUGUST 1979	
		Approved By		Drawing Number 204-5A	





772

2592

3288

28

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2592 MAP # 4

NOTE: TOTAL LEAD ANALYSES

PROFESSIONAL
ENGINEERING
BY
JOHN H. KEIR
REGISTERED
ENGINEER
John Keir
2592

- LEGEND
- ROAD
 - GEO-CHEM SAMPLING RESULT
 - CLAIM POST
 - BENCH MARK
 - DRILL HOLE
 - BELOW BACKGROUND
 - ABOVE BACKGROUND
 - ABOVE THRESHOLD

REVISIONS	DATE	BY

PREPARED BY DRESSER MINERALS FOR DIVISION OF DRESSER INDUSTRIES INC.	
BILL GROUP McDAME CLAIMS	
Northern British Columbia	
Technical Work By VERSATILE MINING SERVICES LTD.	Scale 1:50,000
TDM Drawn By	Date August 1979
Approved By	Drawing Number 344-3B

VERSATILE MINING SERVICES P.O. BOX 528, HAINFORD, B.C.