

82-#916-~~1087E~~  
11002

DEKALB MINING CORPORATION

DEKALB 1 TO 6 CLAIMS, MCDAME CREEK PROJECT

LIARD MINING DIVISION

BRITISH COLUMBIA

NTS: 10<sup>4</sup>SP5E  
LATITUDE: 59°15'N  
LONGITUDE: 129°35'W  
DATE RECORDED: 1980 March 26

1982 GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL,  
TRENCHING AND LINE CUTTING PROGRAM

PROJECT NO. 4554052

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**11,002**

by W.H. THOMPSON  
DECEMBER 1982

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## 1.0 INTRODUCTION:

In 1980 DEKALB Mining Corporation staked the DEKALB 1-6 mineral claims for gold after recognizing the potential of the area which is underlain by Upper Devonian metasediments and Lower Mississippian volcanics of the Sylvester Group.

The potential for lode gold was enhanced by the fact that there are numerous placer and lode gold prospects in and around the area that have been prospected since the late 1800's.

DEKALB Mining Corporation discovered an apparently new quartz vein with low but significant gold values. This report discusses the results of the 1982 geochemical, geological and geophysical surveys on the DEKALB 1-6 claims and the trenching program on and around the quartz-gold vein that was discovered in 1981.

## LOCATION:

### 2.0

2.1 NTS: 105P5E  
2.2 Latitude: 59°15'N  
Longitude: 129°35'W

2.3 POINT OF REFERENCE: The property lies about 4 km north of McDame Creek and extends from Quartzrock Creek to Hot Creek. The centre of the property lies about 12 km east of the town of Cassiar, B.C.

2.4 ACCESS: Access is mainly by helicopter from Watson Lake or Dease Lake. Fig. (1) (Property Location Map).

## PROPERTY DESCRIPTION:

### 3.0

3.1 Number of Claims: The DeKalb 1-6 claims make up a contiguous block of 120 units.

3.2 Area: Approximately 2,850 ha.

3.3. Recording Date: 1980 March 26.

3.4 Expiry Date: 1985 March 26 (at time of report).

3.5 Ownership: The claims are registered in the name of DEKALB Mining Corporation.

3.6 Partnership:	DEKALB Mining Corporation	58.88%
	NICOR Mineral Ventures, Inc.	41.12%

3.7 Commitments: None.

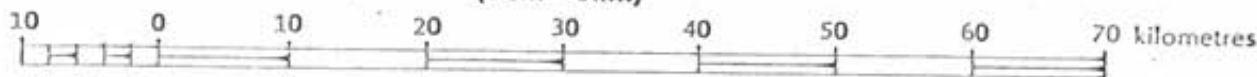
Fig. (2) (Claims Location Map).

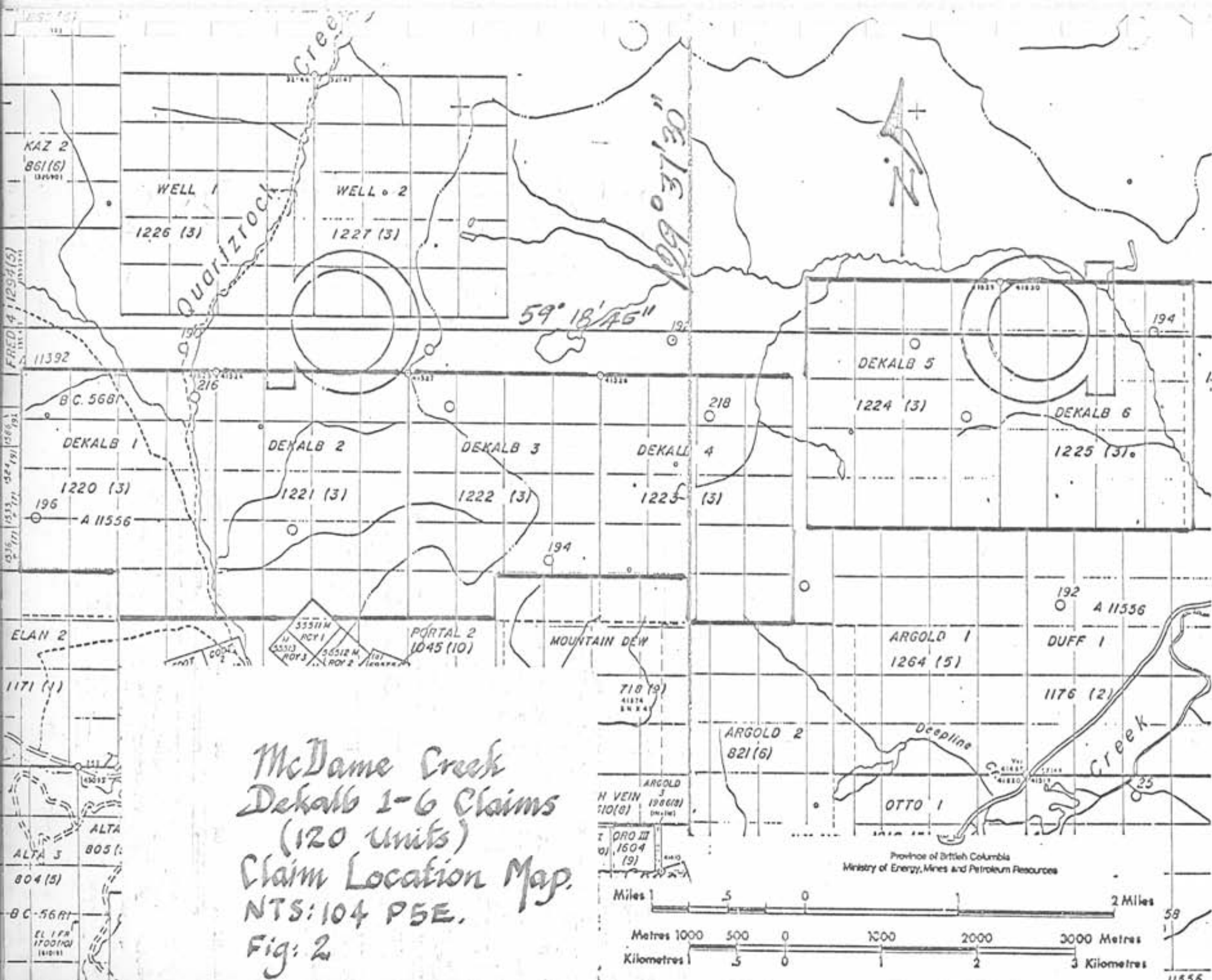


DEKALB 1-6 CLAIMS.

DeKalb 1-6 Claims  
Property Location Map.  
Fig. 1

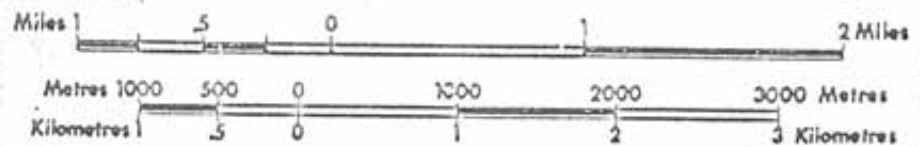
Scale - 1 : 600 000  
(1 cm = 6km)





McDame Creek  
 Dekalb 1-6 Claims  
 (120 units)  
 Claim Location Map.  
 NTS:104 P5E.  
 Fig: 2

Province of British Columbia  
 Ministry of Energy, Mines and Petroleum Resources



#### 4.0 EXPLORATION HISTORY:

The area has been known since 1874 for its lode gold mining. At present there are several parties in the area both developing and operating mines. The DEKALB claims were prospected by numerous individuals and companies as is evidenced by old trenches on the DEKALB 6 claim. DEKALB Mining Corporation in 1980 initiated its program by prospecting the area and sampling various quartz veins that were most obvious. The 1981 program included a regional geochemical survey that discovered the quartz vein that was the focus of the 1982 program. The 1981 program also included some line cutting and trenching on the newly discovered quartz vein.

The 1982 program commenced with a more detailed silt sampling program to complete the silt sampling of all the streams and rivers that drained the claim block. A detailed geological, geochemical, geophysical, prospecting and line cutting program was embarked on, in and around the quartz vein discovered in 1981. Trenching with explosives and later D-6 caterpillar bulldozer was commenced but not completed. The program was closed down before fine details of the new trenches could be taken. (Mapping and chip sampling.) A map was prepared, and chip samples were taken from a trench that was done with explosives before it was buried by a new bulldozer trench that exposed the same quartz vein at a higher elevation.

#### 5.0 GEOLOGY:

5.1 Regional Geology: The DEKALB 1-6 claims are underlain by a folded series of Upper Devonian Metasediments and Lower Mississippian volcanics of the Sylvester Group. These rocks are cut by lenses and sills of ultrabasic rocks and a small hornblende feldspar porphyritic intrusive plug.

#### 5.2 Local Geology:

Fig. (3) (Local Geology)

Only the area immediately in and around the camp was mapped, although traverses were made on the other claims. These were not compiled as no significant structures or mineralization was observed. The camp area is underlain by metasediments and volcanics of the Sylvester Group. These rocks have been folded and intruded by ultra basic rocks and a small hornblende-feldspar porphyry. The sediments observed include black shales, cherts, quartzites, and sandy shales. The ultramafics include serpentinite and various minor chemical variations thereof that result in minor amounts of minerals such as asbestos.

## 5.0 GEOLOGY: - Continued

The quartz veins are located near the ultramafic sedimentary contacts yet within the sediments and adjacent to an intermediate tuffaceous green volcanic bed. The most significant quartz vein occurs at the intersection of two faults and is possibly related to the more prominent north striking fault which runs parallel to the vein. The quartz vein itself is significantly brecciated in places and is parallel to a zone of "Listvanite". "Listvanite" is a local term used to signify a siliceous dolomitized zone containing green chrome alteration minerals such as fuchsite. Listvanite is commonly associated with gold bearing quartz veins in the Cassiar camp as well as better known camps in Ontario.

## 6.0 MINERALIZATION:

The mineralization occurs in quartz veins near the contacts of volcanics and sediments with ultrabasic intrusions. The most mineralized quartz veins are brecciated and dolomitized. The mineral assemblage includes; pyrite, pyrrhotite, magnetite, chromite, fuchsite, chalcopryrite, malachite and assays indicate gold to 0.06 oz/ton. Silt samples that to date have not been followed up include numerous locations with values over 30 ppb Au. and one station with a value of 680 ppb Au.

## 7.0 EXPLORATION PROGRAM:

7.1 Prospecting: Regional prospecting was conducted in conjunction with the silt sampling program and as a follow-up of the soil geochemistry survey conducted in 1981. Highly anomalous sample sites were examined and in some cases re-sampled. No obvious mineralization was discovered at any of these sites with the exception of the quartz vein area near the camp.

7.2 Geological Mapping: A geologic map was prepared of the camp area, this map was prepared at a scale of 1:50000. Fig. 3. Specific maps of trenches and their locations were also prepared. Fig. 4; Fig. 5; Fig. 7.

7.3 Trenching: Fig. (5), (7).: The 1982 program of trenching was started with the use of a rental cobre drill and explosives. The blasted debris was removed with shovels and a small fire pump to clean the face with water from a nearby creek. The initial encouraging assay results warranted more extensive trenching, so later a D-6 bulldozer was rented from Cusac Industries Ltd. who supplied an excellent "cat skinner". Some difficulty was encountered in walking the bulldozer up 35° slopes to the camp and this delayed the trenching program which was prematurely terminated. A total of one explosive trench and three bulldozer trenches were cut. The results of which were that a 7 metre wide quartz structure with unknown length was exposed.



## 7.0 EXPLORATION PROGRAM - Continued

7.4 Geochemistry: Figs. (7), (8), (9). All soil and silt samples were analysed by Min-En Labs of Vancouver for Au., Ag., Cu., and Ni. The sampling that had been done in 1981 produced very high anomalous zones that could not be duplicated, and the author feels that the lab that did the 1981 analysis had a faulty standard that was used especially in the gold determinations; never-the-less a gold anomaly still exists on the prospect, though now much reduced in size and value.

7.4.1 Chip Sampling: Previous chip sampling from veins other than in the camp area had indicated interesting values. Some of these sites were examined along with all of the veins previously mapped. All of the veins, with the exception of the vein near the camp, appeared to have no economic potential in that they were small, well exposed and sparsely mineralized.

Chip sampling around the explosives trench was conducted in detail and a map was prepared - Fig. 7. The assays are appendicized.

7.4.2 Silt Geochemistry: (Stream sediment samples). Previous silt sampling was conducted over the whole property but more or less on a random basis. Often the samples were collected below the junction of streams, so a more complete survey was embarked on. This survey was done with the aid of air photos and supported by a helicopter. Samples were taken at 50 and 100 metre intervals depending on the area and accessibility. Samples were analysed for Cu., Ni., Au., and Ag. Several significant gold anomalies resulted from this survey. A follow-up program was initiated but not completed.

Fig. 10.

7.4.3. Soil Geochemistry: A soil survey was conducted on a new chainsaw cut grid. (The old grid was cut parallel to the geologic structure.) The old grid was also cut without topographic corrections on compass lines using topo filament chains.

Initially the lines were difficult to find and secondly it was recognized that; in heavily wooded mountainous terrain the accuracy of topofilament chains is extremely variable. Stations that were supposed to be 50 meters apart varied from 25 meters to 100 meters. Another factor that materialized was that the 1981 lines tended to "herring bone" due to disseminated magnetite in the nearby ultramafic rocks.

## 7.0 EXPLORATION PROGRAM - Continued

### 7.4.3 Soil Geochemistry - continued

The new soil sample results were shockingly low in gold compared to the 1981 results, but still anomalies are present. Silver, gold and copper results generally coincide producing an anomaly around the exposed quartz vein in the camp area. Nickel results tend to express the location of serpentinite intrusions. In the next follow-up program on the geochemistry, significance should be paid to the possibility of transportation of anomalies due to the steep terrain on which the anomalies occur.

Method: The procedure for taking soil samples was that a hole would be excavated with a "cat" shovel, and where available the "B" oxidized horizon, would be selected for a sample of about a handfull of fine material. This was placed in kraft paper bags. These were dried and shipped for analysis.

7.5 Line Cutting: Fig. (10). A new grid was established on which geochemical, geophysical and geological surveys could be conducted across the geological trends. Line cutting was commenced extending the 1981 grid until it was recognized that the grid was running parallel to the geological formations. The new grid adopted the co-ordinate system of the primary grid to avoid future confusion. The new lines were cut out one metre wide with axes and chainsaws. Pickets were cut and placed at 50 metre stations, these were marked with blue and orange flagging, and scribed with waterproof felt pens.

Due to magnetic influence by serpentinite intrusions, a turning board had to be used to control the direction of lines that were turned from the base line. All the lines were checked at their ends to determine if any errors had been made. The accuracy of the lines is considered to be within 2%. All the lines were also slope corrected with clinometers.

7.6 Geophysics: A Phoenix V.L.F. E.M. unit was rented and a preliminary survey exposed two prominent conductive zones. (The interpretation was done by G. White Geophysical consultants - Vancouver). Both zones are open to the north and south. One trench in the most prominent conductor at 2+00S and 2+40E exposed graphitic argillites that contained a shear zone filled with water. Figure 11.

### 7.7 Summary of Work Done:

1. Prospecting: Follow-up prospecting over the whole property was conducted.
2. Geological mapping: Mapping was concentrated in the camp area.
3. Trenching: Trenching exposed a 7 meter wide vein and a waterfilled conductive zone. A total of 4 trenches were cut.

## 7.0 EXPLORATION PROGRAM - Continued

### 7.7 Summary of Work Done - continued

#### 4. Geochemistry:

- a. Chip sampling of trenches confirmed the existence of low gold values in a quartz vein. A total of 13 samples were taken.
  - b. Stream sediment sampling located several anomalous zones that require follow-up. A total of 106 samples were taken.
  - c. Soil sampling did not confirm previous high anomalies, but did substantiate that anomalies do exist. A total of 228 samples were taken.
5. Line Cutting: a total of 13.8 km of line were cut with axes and chainsaws.
  6. Geophysics: A V.L.F. E.M. survey exposed two anomalous zones that require follow-up. A total of 3.6 km of survey were conducted.

## 8.0 CONCLUSIONS AND RECOMMENDATIONS:

The area appears to be favourable for a lode gold quartz vein type deposit. A quartz vein containing minor but significant gold values has been discovered and exposed. The groundwork for the final stages of mineral exploration have been established and an intensive season should totally evaluate the deposit to the point where either the vein system has been eliminated or a detailed drilling program is warranted.

In order of priority the following is recommended:

1. Improve the trail to the prospect to a point where it can be used as a service road. This will reduce support costs significantly.
2. Follow-up prospecting and detailed sampling of silt geochemical anomalies.
3. Trenching is required over the main quartz vein in the camp area, and more trenching is required on the vein and over geophysical conductors already outlined.

Soil geochemical anomalies require follow-up either and/or with prospecting and trenching but attention should be paid to the possible transportation of the anomalous zones due to the prominent slope of the terrain.

9.0 SUMMARY OF EXPENDITURES

McDame Creek:

1982 June 12 - 19 inclusive

1. Mobilization: Organize equipment, travel to Cassiar from Vancouver. (delayed in Stewart - road closed)	
1 prospector 8 days @ \$100/day	\$ 800.00
1 student 8 days @ \$ 65/day	\$ 520.00
1 truck @ \$ 25/day	\$ 200.00
Motel and meals	\$ 600.00
Demobilization: Cassiar, Watson Lake, Vancouver June 18 - 21 inclusive	
1 prospector 4 days @ \$100/day	\$ 400.00
1 student 4 days @ \$ 65/day	\$ 260.00
1 truck @ \$ 25/day	\$ 100.00
	<u>\$ 2,880.00</u>
2.(a) Geochemistry 1982 - July 1 - 19 inclusive	
<u>Silt sampling program costs:</u>	
Helicopter, incl. fuel @ \$479.82/hr x 15.1 hrs.	\$ 7,245.32
1982 - June 19 - 26 Inclusive	
Accommodation at Cusac Industries camp:	
2 field crew + helicopter pilot - each @ \$60/day	\$ 1,440.00
Assays: 106 silt samples - Total Cost	\$ 1,022.90
Wages for 1 prospector @ \$100/day x 8 days	\$ 800.00
1 student @ \$65/day x 8 days	\$ 520.00
Total Cost of Silt Sampling Survey	<u>\$11,028.22</u>
(b) 1982 - July 1 - 19	
<u>Chip sampling/soil sampling costs:</u>	
1 prospector 4 days @ \$100/day	\$ 400.00
2 students 6 1/2 days @ \$130/day	\$ 845.00
1 geologist 1 1/2 days @ \$150/day	\$ 225.00
Soil sample analysis costs - 228 samples	\$ 2,200.20
Cu, Ni, Ag, Au.	
Chip samples analysis costs - 13 samples	\$ 445.25
Cu, Ni, Ag, Au.	
Camp costs @ \$20/man day x 12 days	\$ 240.00
Total	<u>\$ 4,355.20</u>
3. 1982 July 1 - 19	
<u>Line Cutting Costs for 13.8 km of lines:</u>	
1 prospector 4 days @ \$ 100/day	\$ 400.00
2 students 6 1/2 days @ \$ 130/day	\$ 845.00
1 geologist 1 1/2 days @ \$ 150/day	\$ 225.00
Fuel, chains, repairs, etc.	\$ 184.28
Camp costs \$20.00 per man day x 12 days	\$ 240.00
Total	<u>\$ 1,894.28</u>

9.0 SUMMARY OF EXPENDITURES - continued

McDame Creek:

4. (a) Trenching

Explosives trench - 1982 July 1 - 19 - 1 trench	
1 geologist 3 days @ \$ 150/day	\$ 450.00
1 prospector 3 days @ \$ 100/day	\$ 300.00
1 helper 1 day @ \$ 65/day	\$ 65.00
Pluggger rental	\$ 200.00
1 x 4' drill steel	\$ 42.00
1 cs cilgel explosives	\$ 100.00
1 roll B-line	\$ 15.00
100 caps 3 m fuse	\$ 89.00
2 rolls fast termalite	\$ 10.00

Total \$ 1,271.00

(b) Bulldozer trenching: 3 trenches and cost of trail to the trench areas:

August 10 - 18 inclusive:

Accomodation 2 people each @ \$ 60/day x 9 days	\$ 1,080.00
1 geologist @ \$150/day x 7 days	\$ 1,050.00
1 assistant @ \$ 65/day x 7 days	\$ 455.00
D-6 bulldozer 71 hours @ \$85/hour	\$ 6,035.00

Total \$ 8,620.00

5. Geophysical VLF EM survey - 3.6 km.

VLF-2,E.M. Unit Rental - 4 days @ \$21/day	\$ 84.00
1 prospector 4 days @ \$100/day	\$ 400.00
1 assistant 3 days @ \$65/day	\$ 195.00
Drafting	\$ 80.00
Consultant (G.E. White - interpretations)	\$ 50.00
Camp accomodation - 7 man days @ \$20/day	\$ 140.00

Total \$ 949.00

6, Geological Mapping - July 1 - 11, 1982

1 geologist 5 days @ \$150/day	\$ 750.00
5 days accomodation - camp @ \$20/day	\$ 100.00
Plotting, drafting and report preparation 2 days @ \$150/day	\$ 300.00
and 2 days - geologist @ \$250/day	\$ 500.00

Total \$ 1,650.00

MCDAME CREEK

SUMMARY OF COSTS

1.	Mobilization/Demobilization - Vancouver - Cassiar - Vancouver	\$ 2,880.00
2.	Geochemistry:	
	(a) Silt Sampling Program - 106 silt samples	\$11,028.22
	(b) Chip/Soil Sampling Program - 228 soil samples and 13 chip samples	\$ 4,355.20
3.	Line Cutting Program - 13.8 km. of lines	\$ 1,894.28
4.	Trenching Program:	
	(a) Explosives trench - 23 m x 2 m	\$ 1,271.00
	(b) Bulldozer trenches - 3 trenches and trail to trench areas - total of about 120 m x 4 m	\$ 8,620.00
5.	Geophysical Survey: VLF - 2 EM (Phoenix) - 3.6 km of surveyu	\$ 949.00
6.	Geological mapping and report preparation	\$ 1,650.00
		<hr/>
	TOTAL COST	<u>\$32,647.70</u>

10.0 REFERENCES:

1. Morris, A.J. DEKALB 1-6 - 1981 Exploration Program  
Project #4554052 - November 1981
2. Buckley, R.A. Prospecting Report, McDame Creek, B.C. -  
DEKALB 1-6 Mineral Claims -  
April - September, 1980
3. Gabriele, Hubert McDame Map Area, Cassiar District, B.C.  
G.S.C. Memoir 319, 1963.
4. Geology and Economic Minerals of Canada, G.S.C. - 1970.
5. Personal Communication - Mr. G. Brett,  
Cusac Industries Ltd. 1982.

9.0 QUALIFICATIONS

NAME: WILLIAM HENRY THOMPSON

EDUCATION:

I have completed four years of full time geological studies at the Universities of Victoria and Saskatchewan (Saskatoon Campus).

EXPERIENCE:

I have been employed as a geologist since 1972 with the following companies:

- 1) Consolidated Churchill Copper Corporation  
(Mine Geologist)
- 2) Dumbarton Mines Ltd.  
(Mine Geologist)
- 3) International Minerals & Chemical Corp.  
(Mine Geologist, Exploration Geologist)
- 4) United States Steel Corporation  
(Exploration Geological Consultant)
- 5) Dekalb Mining Corporation  
(Exploration Geologist, Mine Geologist)

PROFESSIONAL ASSOCIATION:

I am an Associate Member of the Geological Association of Canada, and a member of the Prospectors and Developers Association.



APPENDIX A

# MIN-EN Laboratories Ltd.

705 WEST 15th STREET,  
NORTH VANCOUVER, B.C., CANADA V7M 1T2  
TELEPHONE (604) 980-5814

*McDane*

## ANALYTICAL REPORT

Project 4554052 Upper Trench Date of report July 29/82.

File No. 2-400 Date samples received July 26/82.

Samples submitted by: .....

Company: Dekalb Mining

Report on: ..... Geochem samples

..... 1 ..... Assay samples

Copies sent to:

1. Dekalb Mining, Vancouver, B.C.

2. ....

3. ....

Samples: Sieved to mesh ..... Ground to mesh -100

Prepared samples stored  discarded

rejects stored  discarded

Methods of analysis: Ag, Cu-Acid digestion-chemical analysis.

Au-Fire Assay.

Remarks: .....

# MIN-EN Laboratories Ltd.

705 WEST 15th STREET,  
NORTH VANCOUVER, B.C., CANADA V7M 1T2  
TELEPHONE (604) 980-5814

## ANALYTICAL REPORT

Project 4554052 Upper Trench Date of report July 29/82.

File No. 2-400 Date samples received July 26/82.

Samples submitted by: .....

Company: Dekalb Mining

Report on: ..... Geochem samples

..... 1 ..... Assay samples

Copies sent to:

1. Dekalb Mining, Vancouver, B.C.

2. ....

3. ....

Samples: Sieved to mesh ..... Ground to mesh -100

Prepared samples stored  discarded

rejects stored  discarded

Methods of analysis: Ag, Cu-Acid digestion-chemical analysis.

Au-Fire Assay.

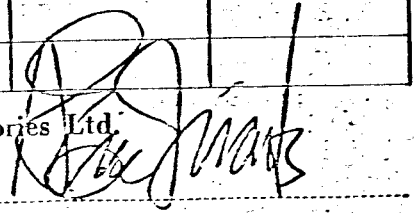
Remarks: .....

**Certificate of Assay**

TO: Dekalb Mining Corp.,  
1004-1166 Alberni St.,  
Vancouver, B.C.

Upper Trench  
PROJECT No. 4554052  
DATE: July 29/82.  
File No. 2-400

SAMPLE No.	Cu %	Ag oz/ton	Au oz/ton			
2000	.007	.04	.002			

MINE-EN Laboratories Ltd.  
CERTIFIED BY: 

# MIN-EN Laboratories Ltd.

705 WEST 15th STREET,  
NORTH VANCOUVER, B.C., CANADA V7M 1T2  
TELEPHONE (604) 980-5814

## ANALYTICAL REPORT

Project McDame Creek Date of report July 27/82.

File No. - 2-392 Date samples received July 24/82.

Samples submitted by: \_\_\_\_\_

Company: Dekalb Mining

Report on: \_\_\_\_\_ Geochem samples

13 Assay samples

Copies sent to:

1. Dekalb Mining, Vancouver, B.C.

2. \_\_\_\_\_

3. \_\_\_\_\_

Samples: Sieved to mesh \_\_\_\_\_ Ground to mesh -100

Prepared samples stored  discarded

rejects stored  discarded

Methods of analysis: Cu, Ni, Ag-Acid digestion-chemical analysis.

Au-Fire Assay.

Remarks: Spec to follow.

# MIN-EN Laboratories Ltd.

705 WEST 15th STREET,  
NORTH VANCOUVER, B.C., CANADA V7M 1T2  
TELEPHONE (604) 980-5814

## ANALYTICAL REPORT

Project McDame Creek Date of report July 27/82.

File No. 2-392 Date samples received July 24/82.

Samples submitted by: \_\_\_\_\_

Company: Dekalb Mining

Report on: \_\_\_\_\_ Geochem samples

13

Assay samples

Copies sent to:

1. Dekalb Mining, Vancouver, B.C.
2. \_\_\_\_\_
3. \_\_\_\_\_

Samples: Sieved to mesh \_\_\_\_\_ Ground to mesh -100

Prepared samples stored  discarded

rejects stored  discarded

Methods of analysis: Cu, Ni, Ag-Acid digestion-chemical analysis.

Au-Fire Assay.

Remarks: Spec to follow.



# MIN-EN Laboratories Ltd.

705 WEST 15th STREET,  
NORTH VANCOUVER, B.C., CANADA V7M 1T2  
TELEPHONE (604) 980-5814

## ANALYTICAL REPORT

Project McDame Creek Date of report Aug. 2/82.

File No. 2-392 Date samples received July 23/82.

Samples submitted by: .....

Company: Dekalb Mining

Report on: 97 soils Geochem samples

Assay samples

Copies sent to:

1. Dekalb Mining, Vancouver, B.C.
2. ....
3. ....

Samples: Sieved to mesh - 80 Ground to mesh .....

Prepared samples stored  discarded

rejects stored  discarded

Methods of analysis: Cu, Ni, Ag-nitric, perchloric digestion. A.A.

Au-Aqua Regia. A.A.

Remarks: .....



**GEOCHEMICAL ANALYSIS DATA SHEET**

PROJECT No.: McDame Creek

MIN - EN Laboratories Ltd.

DATE: Aug. 2,

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2  
PHONE (604) 980-5814

1982.

ATTENTION:

Sample Number	As ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	Cu ppm				
6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
L1+0.0.E.2	+0.0.S				7.8.0			1.2				5	3.9			
L.8.+0.0.S	1.+0.0.E				7.5			1.1				5	4.8			
	1.+5.0.E				5.6			1.2				5	4.4			
	2.+0.0.E				2.1.8			1.5				5	1.3.5			
	2.+5.0.E				8.4			1.0				10	7.3			
	3.+0.0.E				5.4			1.2				5	6.9			
	3.+5.0.E				1.0.7			1.1				5	1.0.0 (40 mesh)			
	4.+0.0.E				1.9.2			1.2				5	1.5.7			
	4.+5.0.E				1.0.4			1.1				5	9.2			
	5.+0.0.E				2.1			0.8				5	2.0			
	5.+5.0.E				5.1			1.2				5	3.4			
L.8.+0.0.S	6.+0.0.E				2.1			0.9				5	2.0			
1.+0.0.S.1	+0.0.E				9.8.5			0.8				10	3.1			
	1.+5.0.E				1.0.7			1.1				5	4.5			
	2.+0.0.E				5.4			0.9				10	5.8			
	2.+5.0.E				5.9			1.2				5	3.6			
	3.+0.0.E				8.4			1.1				5	5.6			
	3.+5.0.E				5.8			1.0				5	3.3			
	4.+0.0.E				8.0			0.9				15	3.2			
	4.+5.0.E				1.1.2			1.0				10	4.3			
1.+0.0.S.5	+0.0.E				4.8			1.1				5	4.0			
2.+0.0.S.1	+5.0.E				1.3.9			1.2				5	3.1			
	2.+0.0.E				2.2			0.9				10	3.2			
	2.+5.0.E				1.3.4			1.6				5	6.2			
	3.+0.0.E				3.4			1.0				5	3.3			
	3.+5.0.E				1.0.0			0.9				20	4.3			
	4.+0.0.E				1.0.8			1.0				10	4.3			
	4.+5.0.E				4.7			1.3				5	3.8			
2.+0.0.S.5	+0.0.E				2.1			1.1				5	2.0			
L.3.+0.0.S.1	+0.0.E				4.4.2			0.9				5	5.1			

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22

CONTRACT No. McDAME in McDAME

**GEOCHEMICAL ANALYSIS DATA SHEET**

Project No. 2-302

PROJECT No.: McDAME Creek

MIN - EN Laboratories Ltd.

DATE: Aug. 2,

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2

PHONE (604) 980-5814

1982.

ATTENTION:

6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	
Sample Number	Xo ppm	Co ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	Cu ppm			
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
L3+0.0S	1+5.0E				2.0			0.5					5	4.0		
	2+0.0E				2.4			0.7					5	1.8		
	2+5.0E				8.0			0.8					10	3.8		
	3+0.0E				4.9			0.6					5	2.8		
	3+5.0E				6.8			0.8					10	5.8		
	4+0.0E				6.4			0.6					5	4.1		
	4+5.0E				5.6			0.9					5	5.9		
	5+0.0E				3.0			1.3					10	2.4		
	5+5.0E				3.9			4.0					5	3.7		
	6+0.0E				1.9			1.2					5	2.5		
	6+5.0E				1.9			0.9					10	2.3		
	7+5.0E				6.6			1.8					5	6.2		
L3+0.0S	8+0.0E				4.0			1.5					5	5.5		
L7+0.0E	0+0.0				5.8			1.4					5	6.1		
	0+5.0S				4.1			1.5					10	7.2		
	1+0.0S				2.5			1.2					5	2.7		
	1+5.0S				1.2			0.7					2.5	2.3		
	2+0.0S				1.8			0.5					5	2.9		
	2+5.0S				1.1			0.5					5	2.7		
	3+0.0S				2.8			1.2					5	2.9		
	3+5.0S				3.6			0.8					5	5.0		
	4+0.0S				2.1			1.2					5	1.8		
	4+5.0S				2.1			1.2					10	2.8		
L7+0.0E	5+0.0S				1.7			1.1					5	2.1		
L8+0.0E	0+0.0				2.1			1.0					10	3.1		
	0+5.0S				1.4			1.4					5	1.5		
	1+0.0S				4.9			2.0					5	8.4		
	1+5.0S				2.4			1.6					5	2.4		
	2+0.0S				3.8			1.8					5	4.1		
L8+0.0E	2+5.0S				7.8			2.1					5	5.6		

*McC*

**GEOCHEMICAL ANALYSIS DATA SHEET**

PROJECT No.: McDame Creek

MIN - EN Laboratories Ltd.

DATE: Aug. 2,  
1982.

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2  
PHONE (604) 980-5814

ATTENTION:

Sample Number	6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	Cu ppm					
	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
L8+0.0E	3+5.0S					2.5		1.2					5	2.3		
	4+0.0S					2.5		0.7					5	2.5		
	4+5.0S					3.8		1.3					5	6.0		
L8+0.0E	5+0.0S					2.3		0.9					5	1.8		
L4+0.0S	1+5.0E					9.1		1.0					5	5.4		
	2+0.0E					17.3		0.6					15	6.2		
	2+5.0E					17.6		0.7					20	6.5		
	3+0.0E					8.4		0.8					15	5.2		
L4+0.0S	3+5.0E					3.2		0.8					5	3.2		
L5+0.0S	1+0.0E					3.8		0.9					5	4.1		
	1+5.0E					9.4		0.7					10	7.6		
	2+0.0E					13.0		0.9					5	12.0		
	2+5.0E					5.4		0.4					5	4.6		
	3+0.0E					3.5		0.7					5	3.7		
	3+5.0E					3.4		0.6					10	3.4		
	4+0.0E					4.5		0.8					3.5	3.8		
	4+5.0E					15.8		0.5					10	4.0		
L5+0.0S	4+9.0E					18.4		0.7					5	4.2		
L6+0.0S	1+5.0E					5.5		0.6					4.5	4.9		
	2+0.0E					2.8		0.7					4.5	2.9		
	2+5.0E					14.9		1.2					5	17.6		
	3+0.0E					14.8		1.0					10	10.5		
	3+5.0E					18.0		0.9					5	10.4		
	4+0.0E					13.8		1.0					5	11.5		
	4+5.0E					9.2		0.8					4.5	8.1		
L6+0.0S	5+0.0E					6.6		0.8					5	5.7		
L7+0.0S	1+0.0E					4.3		0.6					5	4.0		
	1+5.0E					6.2		0.5					5	3.8		
	2+0.0E					10.0		0.4					10	4.8		
L7+0.0S	2+5.0E					7.2		0.4					5	4.0		

*PLC*



JUL 21 1982

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# MIN-EN Laboratories Ltd.

705 WEST 15th STREET,  
NORTH VANCOUVER, B.C., CANADA V7M 1T2  
TELEPHONE (604) 980-5814

## ANALYTICAL REPORT

Project ..... Date of report July 20/82.

File No. 2-305 ..... Date samples received July 7/82.

Samples submitted by: .....

Company: Dekalb Mining .....

Report on: 106 soils ..... Geochem samples

.....

..... Assay samples

.....

Copies sent to:

1. Dekalb Mining, Vancouver, B.C. .....

2. ....

3. ....

Samples: Sieved to mesh -80 ..... Ground to mesh .....

Prepared samples stored  discarded

rejects stored  discarded

Methods of analysis: Cu, Ni, Ag-nitric, perchloric digestion.A.A. .....

Au-Aqua Regia.A.A. .....

Remarks: McDerm Creek .....

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## GEOCHEMICAL ANALYSIS DATA SHEET

PROJECT No.: \_\_\_\_\_

MIN - EN Laboratories Ltd.

DATE: July 20

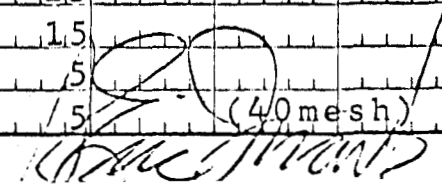
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2  
PHONE (604) 980-5814

1982.

ATTENTION:

Sample. Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	70	75	80	
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
ND-1		84			37		1.3					4.5				
2		13.5			8.1		1.7					9.0				
3		9.4			5.2		1.3					5				
4		9.6			6.1		0.8					7.0		(40 mesh)		
5		13.1			7.7		1.1					5.0				
6		7.3			10.2		0.7					5				
7		6.0			9.2		0.6					10				
8		10.4			5.8		0.8					1.5				
9		16.1			4.8		1.1					5				
10		13.4			5.2		1.0					5				
11		12.4			5.7		0.9					3.5				
12		12.5			5.4		1.0					5				
13		14.4			6.0		0.9					10				
14		11.5			6.4		1.0					5				
15		10.6			4.4		0.5					10		(40 mesh)		
16		11.2			5.0		0.6					1.5		(40 mesh)		
17		9.0			4.4		0.7					10		(40 mesh)		
18		9.3			4.6		0.6					10		(40 mesh)		
19		7.9			4.2		0.5					5		(40 mesh)		
20		10.6			5.4		0.6					10				
21		7.9			4.5		0.6					5		(40 mesh)		
22		9.1			4.4		0.6					5		(40 mesh)		
23		11.2			5.4		0.5					5				
24		9.0			4.5		0.4					5		(40 mesh)		
25		7.9			4.5		0.4					4.5		(40 mesh)		
26		9.9			4.6		0.4					5		(40 mesh)		
27		9.1			5.6		0.6					2.5				
28		9.1			5.5		0.6					1.5				
29		8.9			5.3		0.6					5				
ND 30		8.5			4.3		0.4					1.5		(40 mesh)		

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 (40 mesh)

## GEOCHEMICAL ANALYSIS DATA SHEET

FILE No. 2-505

PROJECT No.: \_\_\_\_\_

MIN - EN Laboratories Ltd.

DATE: July 5

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2

1982.

PHONE (604) 980-5814

ATTENTION: \_\_\_\_\_

Sample Number	6 81	10 ppm 90	15 Cu ppm 95	20 Pb ppm 100	25 Zn ppm 105	30 Ni ppm 110	35 Co ppm 115	40 Ag ppm 120	45 Fe ppm 125	50 Hg ppb 130	55 As ppm 135	60 Mn ppm 140	65 Au ppb 145	70 150	75 155	80 160
ND 3.1			10.5			5.6		0.5					1.5		(40 mesh)	
3.2			8.2			6.8		0.6					5			
3.3			10.6			5.5		0.4					1.0			
3.4			7.8			4.9		0.9					5		(40 mesh)	
3.5			6.1			3.3		0.6					1.0			
3.6			9.3			5.4		0.7					5			
3.7			4.1			8.4		0.9					5		(40 mesh)	
3.8			8.2			8.0		0.7					1.0			
3.9			13.5			7.6		0.9					1.0			
4.0			14.7			8.4		1.0					5			
4.1			12.8			8.6		1.0					1.0		(40 mesh)	
4.2			10.5			7.8		0.9					5		(40 mesh)	
4.3			11.0			6.8		0.8					5			
4.4			14.3			5.8		1.1					1.0			
4.5			12.0			7.2		0.8					5			
4.6			7.4			5.4		0.7					1.0		(40 mesh)	
4.7			12.5			5.8		1.0					5		(40 mesh)	
4.8			9.3			5.7		0.7					5		(40 mesh)	
4.9			10.6			7.8		0.8					1.0			
5.0			11.1			5.4		1.1					1.0			
5.1			14.6			4.6		0.8					1.0			
5.2			14.1			8.2		1.2					4.5		(40 mesh)	
5.3			15.2			8.6		1.2					1.0		(40 mesh)	
5.4			10.0			5.7		0.8					6.5			
5.5			5.9			8.8		0.7					5		(40 mesh)	
5.6			10.2			6.8		0.7					5		(40 mesh)	
5.7			8.8			9.6		0.9					2.0			
5.8			7.6			6.4		0.6					5		(40 mesh)	
5.9			11.4			5.5		0.8					1.5		(40 mesh)	
ND 6.0			13.4			6.8		1.6					5		(40 mesh)	

K. R. G. M. M. R.

AG McJ...

DATE: July 20

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2  
PHONE (604) 980-5814

1982.

PROJECT No.:

ATTENTION:

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb			
81	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
ND 61		13.7			6.6		0.6					50			
62		11.3			5.8		0.4					130		(40 mesh)	
63		10.6			5.0		0.5					55			
64		11.1			5.4		0.6					60			
65		9.7			4.8		0.6					50		(40 mesh)	
66		12.2			4.9		0.8					100		(40 mesh)	
67		6.4			10.8		0.8					5		(40 mesh)	
68		4.9			12.5		0.8					10		(40 mesh)	
69		4.5			11.8		0.8					5		(40 mesh)	
70		7.9			5.2		1.0					5		(40 mesh)	
71		6.1			11.2		0.8					10			
72		6.4			7.8		0.6					680			
73		6.1			11.5		0.7					10		(40 mesh)	
74		6.0			9.2		0.8					30		(40 mesh)	
75A		5.2			10.2		0.8					15		(40 mesh)	
75B		5.0			8.8		0.6					10		(40 mesh)	
76A		5.6			10.4		0.7					5		(40 mesh)	
76B		5.8			11.0		0.6					10		(40 mesh)	
79		5.9			10.8		0.8					5			
80		5.5			11.5		0.8					5		(40 mesh)	
81		7.8			9.6		0.6					25		(40 mesh)	
82		6.1			9.5		0.6					5			
83		6.2			12.5		0.6					5			
84		5.7			13.2		0.6					5			
85		6.0			12.0		0.6					30			
86		6.8			11.8		0.5					5			
87		5.0			10.8		0.6					10		(40 mesh)	
88		8.2			11.6		0.8					20			
89		6.6			7.2		1.0					5		(40 mesh)	
ND 90		6.7			11.8		0.6					15			

CERTIFIED BY

*[Signature]*



GEOCHEMICAL ANALYSIS DATA SHEET

File No. 705

PROJECT No. \_\_\_\_\_

MIN-EN Laboratories Ltd.

DATE: July 2,

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2  
PHONE (604) 980-5814

1982.

ATTENTION:

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb				
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
ND 9.1		6.4				13.0	0.6					5				
9.2		5.6				13.5	0.5					1.0				(40 mesh)
9.3		8.1				12.2	1.5					1.0				(40 mesh)
9.4		6.0				18.0	0.5					1.0				(40 mesh)
9.5		5.8				13.2	0.5					5				(40 mesh)
9.6		5.1				11.2	0.5					5				
9.7		5.3				11.8	0.6					1.0				
9.8		6.1				12.0	0.5					1.0				
9.9		5.2				11.0	0.7					5				
1.0.0		5.7				12.6	0.5					5				
1.0.1		4.4				12.0	0.4					5				(40 mesh)
1.0.2		4.6				13.2	0.6					5				(40 mesh)
1.0.3		4.1				12.0	0.6					5				(40 mesh)
1.0.4		5.3				11.8	0.9					130				
1.0.5		5.0				11.2	0.7					1.0				
ND 1.0.6		4.8				7.8	0.7					330				
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CERTIFIED BY

*[Handwritten Signature]*

# MIN-EN Laboratories Ltd.

705 WEST 15th STREET,  
NORTH VANCOUVER, B.C., CANADA V7M 1T2  
TELEPHONE (604) 980-5814

## ANALYTICAL REPORT

Project ..... McDame Creek ..... Date of report ..... July 24/82 .....  
 File No. .... 2-324 ..... Date samples received ..... July 12/82 .....  
 Samples submitted by: ..... W. Thompson .....  
 Company: ..... Dekalb Mining Corp. ....  
 Report on: ..... 131 ..... Geochem samples

Assay samples

Copies sent to:

1. .... Dekalb Mining Corp., Vancouver, B.C. ....
2. ....
3. ....

Samples: Sieved to mesh ..... -80 ..... Ground to mesh .....

Prepared samples stored  discarded

rejects stored  discarded

Methods of analysis: .... Cu, Ag, Ni, nitric, perchloric digestion. A.A. ....  
 analysis. Au-Aqua Regia. A.A. Analysis. ....

Remarks: .....

CON. McDame Creek

**GEOCHEMICAL ANALYSIS DATA SHEET**

*McName*

FILE NO. 2-3-82

PROJECT No.: McDame Creek

MIN - EN Laboratories Ltd.

DATE: July 24  
1982

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2  
PHONE (604) 980-5814

ATTENTION: W. Thompson

Sample Number	Mo ppm	Sr ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	Cu ppm			
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
ND 1.07					37.0		12					5	85			
0.8					64.0		07					5	32 (40 mesh)			
0.9					65.0		07					5	36 (40 mesh)			
1.0					125		14					10	152			
1.1					65		06					10	73			
1.2					54		05					5	45			
1.3					78		05					5	48			
1.4					112		04					5	60			
1.5					110		07					15	58			
1.6					125		06					75	62			
1.7					132		07					5	63			
ND 1.18					120		06					10	44			
L4+0.0W	0+5.0N				175		06					5	54			
	1+0.0				192		06					15	158			
	1+5.0				410		06					10	63			
	2+0.0				310		07					5	29			
	2+5.0				530		06					5	34			
	3+0.0				850		06					5	31			
	3+5.0				840		05					10	36			
	4+0.0				450		05					10	45			
	4+5.0				240		06					15	29			
L4+0.0W	5+0.0N				470		08					5	33			
L2+0.0W	4+5.0N				285		09					5	24			
	5+0.0				460		09					35	47			
	5+5.0				115		09					10	26			
	6+0.0				75		08					5	24			
	6+5.0				110		08					15	32			
	7+0.0				22		07					10	11			
	7+5.0				310		11					150	43			
L2+0.0W	8+0.0W				440		15					15	107			

*WTC*

GEOCHEMICAL ANALYSIS DATA SHEET

*McDame*

PROJECT No.: McDame Creek

MIN - EN Laboratories Ltd.

DATE: July 24

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2  
PHONE (604) 980-5814

1982

ATTENTION: W. Thompson

Sample Number	6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
	ppm	ppm	ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	Cu ppm		
	81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	160
L2+0.0W	8+5.0	N				5.20		1.0					15	39	(40 mesh)	
	9+0.0					3.5		1.4					5	30		
	9+5.0					1.02		1.0					10	44		
L2+0.0W	10+0.0	N				4.2		1.0					5	14		
L1+0.0W	4+5.0	N				1.45		1.1					5	2.2		
	5+0.0					4.95		1.2					15	5.3		
	5+5.0					3.10		0.8					5	3.6		
	6+0.0					1.15		0.7					5	2.6		
	6+5.0					2.90		1.0					5	4.5	(40 mesh)	
	7+0.0					2.30		1.5					5	6.6		
	7+5.0					1.05		0.8					5	2.8		
	8+0.0					4.80		2.3					20	24.2		
	8+5.0					2.70		1.1					5	6.9		
	9+0.0					1.90		0.7					10	8.3		
	9+5.0					1.80		0.8					5	17.2		
L1+0.0W	10+0.0	N				1.35		0.8					5	9.6	(40 mesh)	
B.L0+0.0						9.5		0.7					5	3.9		
	0+5.0	W				1.82		0.6					5	2.4		
	1+0.0					3.50		0.6					5	4.1		
	1+5.0					2.35		0.7					10	2.1		
	2+0.0					2.15		1.1					5	1.9		
	2+5.0					2.70		0.9					5	14.7		
	3+0.0					1.80		0.8					5	5.3		
	3+5.0					1.72		0.8					15	3.5		
B.L4+0.0W						2.42		1.1					25	3.7		
L1+0.0W	0+5.0	S				3.25		0.9					5	2.9		
	1+0.0					2.05		1.0					10	1.6		
	1+5.0					8.60		0.8					5	3.2		
	2+0.0					3.80		0.8					5	2.8		
L1+0.0W	2+5.0	S				1.040		1.1					5	3.3		

*[Signature]*

CONTRACT NO. 705 15th ST. 121

GEOCHEMICAL ANALYSIS DATA SHEET

McName

File No. 2-2-2-2

PROJECT No.: McDame Creek

MIN - EN Laboratories Ltd.

DATE: July 24

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2

1982

ATTENTION: W. Thompson

Sample Number	As ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	Cu ppm			
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
L3+0.0W	5+0.0S				2.0		0.8					5	32			
L2+0.0W	0+5.0S				7.40		0.6					5	38			
	1+0.0N				2.25		0.8					10	20			
	1+5.0				1.85		0.8					5	32			
	2+0.0				1.15		0.9					5	57			
	2+5.0				5.10		0.8					10	34			
	3+0.0				2.35		0.8					5	35			
	3+5.0				3.0		0.6					5	13 (40 mesh)			
	4+0.0N				3.60		0.6					5	30			
	4+5.0S				3.5		0.8					<5	22			
L2+0.0W	5+0.0S				1.10		0.9					10	69			
L3+0.0W	5+5.0N				6.00		0.8					10	47			
	6+0.0				5.00		0.6					5	37 (40 mesh)			
	6+5.0				1.95		0.6					5	26			
	7+0.0				1.92		0.5					5	32			
	7+5.0				1.80		0.6					5	44			
	8+0.0				6.5		0.4					15	20			
	8+5.0				9.2		0.6					10	28			
	9+0.0				1.35		0.4					5	50 (40 mesh)			
	9+5.0				1.05		0.9					5	106			
L3+0.0W	10+0.0N				1.10		0.4					15	38			
L4+0.0W	5+5.0N				5.30		0.8					10	44			
	6+0.0				4.60		0.7					5	50			
	6+5.0				2.20		0.7					15	51			
	7+0.0				1.45		0.7					10	43			
	7+5.0				6.2		0.7					5	23			
	8+0.0				1.10		0.5					20	32			
	8+5.0				1.25		0.7					5	44			
	9+0.0				2.10		1.2					10	108			
L4+0.0W	9+5.0N				2.50		1.1					5	155			

*[Handwritten signature]*

**GEOCHEMICAL ANALYSIS DATA SHEET**

*McDane*

PROJECT No.: McDane Creek

MIN - EN Laboratories Ltd.

DATE: July 24

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2  
PHONE (604) 980-5814

1982

ATTENTION: W. Thompson

6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	
Sample.	α	α	Pb	Zn	Ni	Co	Ag	Fe	Hg	As	Mn	Au	Cu			
Number	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppm			
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
L-4+0.0W-1.0+0.0N					3.7		4					5	4.3			
L-1+0.0W-5+0.0S					2.60		8					10	4.2			
L-1+0.0W-0+5.0N					1.05		4					5	1.8			
	1+0.0				6.5		5					5	1.8			
	1+5.0				5.8		6					5	2.3			
	2+0.0				13.5		6					5	2.4			
	2+5.0				21.0		6					10	2.2			
	3+0.0				12.5		6					25	1.3			
	3+5.0				8.5		6					20	3.3			
L-1+0.0W-4+0.0N					1.00		9					5	4.7			
L-2+0.0N-0+5.0N					4.80		7					5	2.7			

*[Handwritten Signature]*

37

COMPY

PROJECT No: 10020000000000000000

1. Designation

REVISED

UN

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10020000000000000000

APPENDIX B

ITEM NO	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
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GEOCHEMICAL PREPARATION

AND

ANALYTICAL PROCEDURES

GROUP A PERCHLORIC-NITRIC ACID EXTRACTION

1. Geochemical samples (soils, silts) are dried at 80°C for a period of 12 to 24 hours. The dried sample is sieved to -80 mesh fraction through a nylon and stainless steel sieve. Rock geochemical materials are crushed, dried and pulverized to -100 mesh.
2. A 1.00 gram portion of the sample is weighed into a calibrated test tube. The sample is digested using hot 70% HClO<sub>4</sub> and concentrated HNO<sub>3</sub>. Digestion time = 2 hours.
3. Sample volume is adjusted to 25 mls. using demineralized water. Sample solutions are homogenized and allowed to settle before being analyzed by atomic absorption procedures.
4. Detection limits using Techtron A.A. 5 atomic absorption unit.

Copper	- 1 ppm
Molybdenum	- 1 ppm
Zinc	- 1 ppm
*Silver	- 0.2 ppm
*Lead	- 1 ppm
*Nickel	- 1 ppm
*Chromium	- 5 ppm
*Cobalt	- 1 ppm
Manganese	- 5 ppm
Iron	- 2 ppm

\* Ag, Pb, Co and Ni are corrected for background absorption.

5. Elements present in concentrations below the detection limits are reported as one half the detection limit, i.e. Ag - 0.1 ppm.



GROUP B ELEMENTS REQUIRING INDIVIDUAL AND SPECIFIC EXTRACTION TECHNIQUES

1. PPM Arsenic:

A 1.0 gram sample is digested with a mixture of perchloric and nitric acid to strong fumes of perchloric acid. The digested solution is diluted to volume and mixed. An aliquot of the digest is acidified, reduced with KI and mixed. A portion of the reduced solution is converted to arsine with  $\text{NaBH}_4$  and the arsenic content determined using flameless atomic absorption.

Detection limit: 0.1 ppm

2. PPB Gold:

5 gm samples ashed @  $800^\circ\text{C}$  for one hour, digested with aqua regia - twice to dryness - taken up in 25% HCl -, the gold then extracted as the bromide complex into MIBK and analyzed via A.A.

Detection limit: 10 ppb

3. PPM Tungsten:

0.50 gm sample is fused with potassium bisulfate and leached with hydrochloric acid. The reduced form of tungsten is complexed with toluene 3,4 dithiol and extracted into an organic phase. The resulting color is visually compared to similarly prepared standards.

Detection limit: 2 ppm W

4. PPM Tin:

1.00 gm of sample is sintered with ammonium iodide. The resulting tin iodide is leached with a dilute HCL - ascorbic acid solution. The TOPO complex is then extracted with MIBK and analyzed via A.A.

Detection limit: 1 ppm Sn

# GEOCHEMICAL ANALYSES

Soil, sediment and biogeochemical materials.

## INSTRUMENTAL AND CHEMICAL ANALYSES

Element Detection Limit

### Group A — Perchloric-nitric acid extraction \*

Copper	1 ppm
Molybdenum	1 ppm
*Lead	1 ppm
Zinc	1 ppm
*Silver	0.1 ppm
*Cadmium	0.1 ppm
*Nickel	1 ppm
*Cobalt	1 ppm
Iron	2 ppm
Manganese	5 ppm
Chromium	1 ppm

\* Other extraction techniques by request

### Group B — Elements requiring individual and specific extraction techniques.

*Antimony	0.2 ppm
Arsenic	1 ppm
Beryllium	0.2 ppm
*Bismuth	0.2 ppm
Fluorine	20 ppm
Gold — A.A.	10 ppb
Gold — F.A. & A.A.	5 ppb
Gold — F.A. & N.A.A.	1 ppb
L.O.I.	0.1 %
Mercury	5 ppb
Palladium — F.A. & A.A.	5 ppb
pH	0.1 pH unit
Phosphorus	5 ppm
Platinum — F.A. & A.A.	20 ppb
Platinum & Palladium — F.A. & A.A.	
Selenium	1 ppm
Sulfur	20 ppm
Tantalum — Neutron Activation	1 ppm
Tellurium	0.1 ppm
Thorium — Neutron Activation	1 ppm
Tin	2 ppm
Tungsten	2 ppm
Uranium — Fluorometric	0.5 ppm
Uranium — Neutron Activation	0.5 ppm

\* Background correction applied

### Group C — Perchloric-nitric-hydrofluoric acid extraction

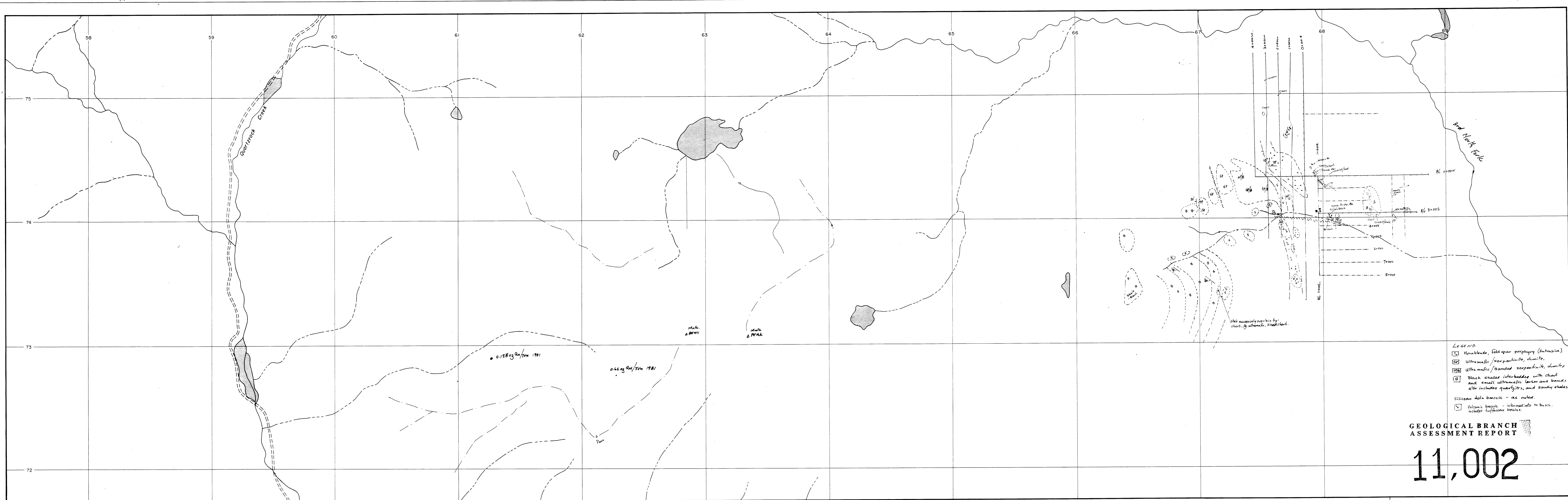
Aluminum	10 ppm
Barium	10 ppm
Calcium	10 ppm
Lithium	5 ppm
Magnesium	10 ppm
Potassium	10 ppm
Rubidium	10 ppm
Sodium	10 ppm
Strontium	10 ppm
Vanadium	5 ppm

Note: Upper limit for Group C elements — 10000 ppm.

## LAB PREPARATION OF GEOLOGICAL, GEOCHEMICAL AND BIOLOGICAL MATERIALS

Sample handling and preparation procedures are as important as field sampling techniques. A poorly prepared sample is neither representative of the material obtained in the field nor can it be analysed with any degree of confidence. For this reason we spend considerable time studying handling and preparation procedures for each project. The quality of our analytical services depends on the care we take with your sample materials.

Sample Type	Description	Prep. Procedure
Soil or Sediment	Dry, sieve through an ASTM 80 mesh screen (0.18mm).	
Soil or Sediment	Dry, sieve through an ASTM 35 mesh screen (0.50mm). The -35 mesh fraction is pulverized and homogenized in a ring grinder to approx. -100 mesh.	
Soil or Sediment	Dry, sieve through an ASTM 80 mesh screen. The -80 mesh fraction is pulverized and homogenized in a ring grinder to approx. -100 mesh.	
Rock chips (geochem analysis)	Crush entire sample. Subsample if necessary. Pulverize in a ring grinder to approximately -100 mesh (0.15mm).	
Lake bottom sediment	Dry, pulverize in a ring grinder to homogenize sample and reduce particle size to approximately -200 mesh (0.075mm).	
Drill core, Rock chips (assay)	Assay Prep. — Primary and secondary jaw crushing, tertiary cone crushing. Pulverize approx. 250 gm subsample in a rotary pulverizer. Pulps for precious metals are screened to -100 mesh (0.15mm) and examined for 'metallics'.	
Drill core, Rock chips (assay)	Assay Prep. — Primary and secondary jaw crushing, tertiary cone crushing. Pulverize approx. 200 gm. subsample in a ring grinder.	
Drill core, Rock chips (assay)	Assay Prep. — For High Grade Materials. Preparation same as 208 except pulp is screened to -100 mesh.	
Vegetation	Dry, chop in a cutter mill to pass a -20 mesh (0.84mm) screen.	
Stream sediments Pan concentrates	Separation of Heavy Minerals having a specific gravity greater than 2.96.	
Pulp	As received (dry and -100 mesh)	
Drill core, Rock chips (geochem analysis)	Overweight charge on excess weight over 10 lbs. on drill core samples and over 2 lbs. on rock chip samples.	
Sample Pulps	Compositing charge	

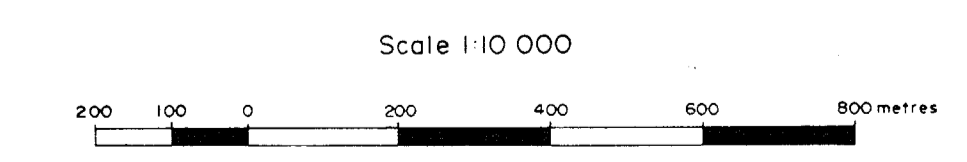


- LEGEND
- ☐ Hornblende, feldspar porphyry (intrusive)
  - ☐ Ultramafic/serpentine, clinite
  - ☐ Ultramafic/banded serpentinite, clinite
  - ☐ Black shales interbedded with chert and small ultramafic lenses and bands also includes quartzites, and sandy shales
  - ☐ Siliceous dolomite breccia - as noted
  - ☐ Volcanic breccia - intermediate to basic includes tuffaceous breccia

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

11,002

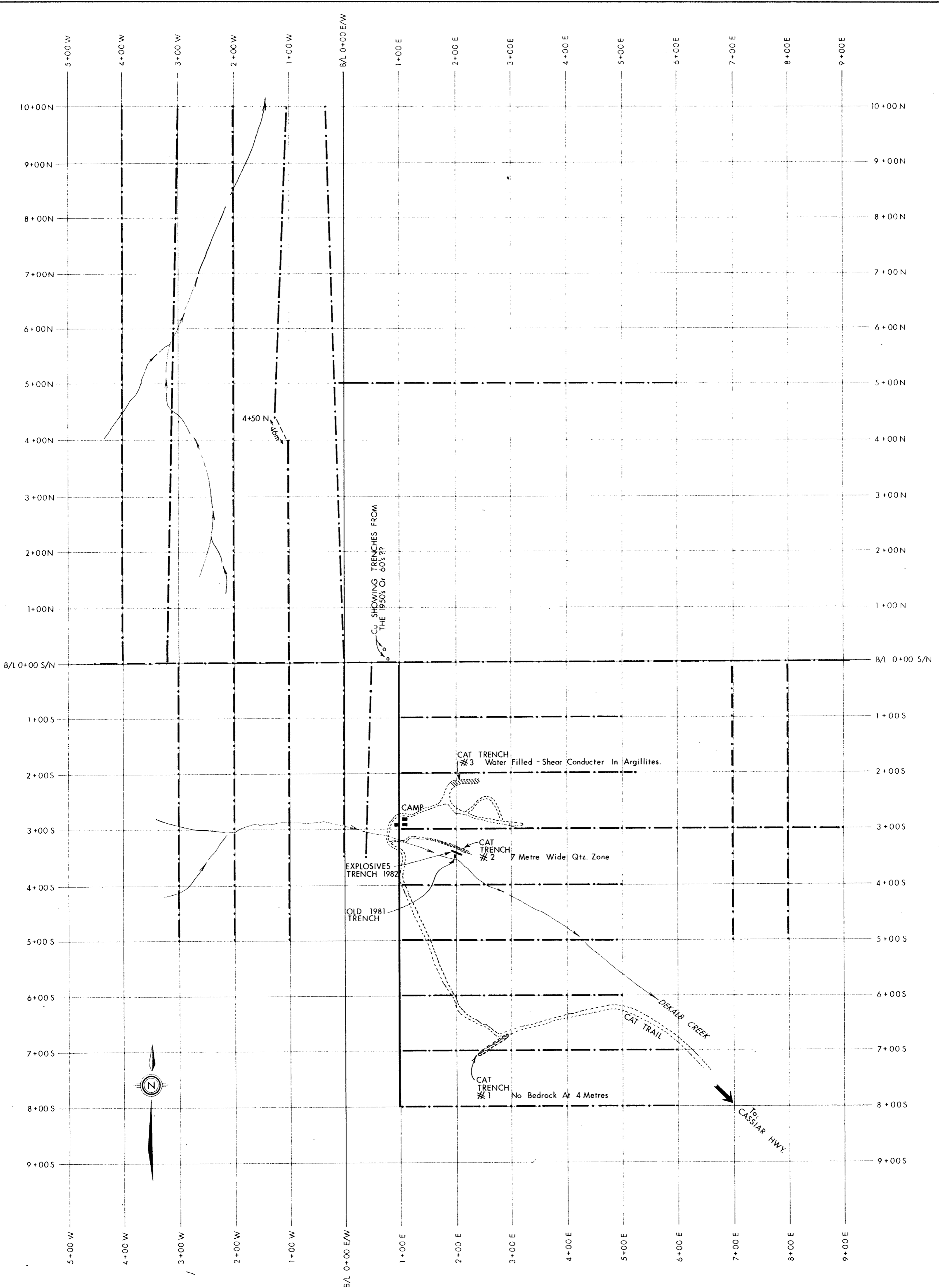
LEGEND  
66 UTM Coordinates



DEKALB MINING CORPORATION  
DEKALB GROUP  
McDAME CREEK  
British Columbia

BASE MAP  
Geological Geology of McDAME CREEK

NTS: 104 P 5  
DATE: 82-06-14  
FIGURE: 3  
DRAFTED BY: S.K.S. Little



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**11,002**

DEKALB MINING CORPORATION	
<b>MCDAME CREEK</b>	
MAP OF TRENCHES AND TRAIL ON DEKALB #6 CLAIM	
1:5000	Fig 4
SCALE: 1:50,000 <i>2</i>	By W. THOMPSON SEPT. 1982

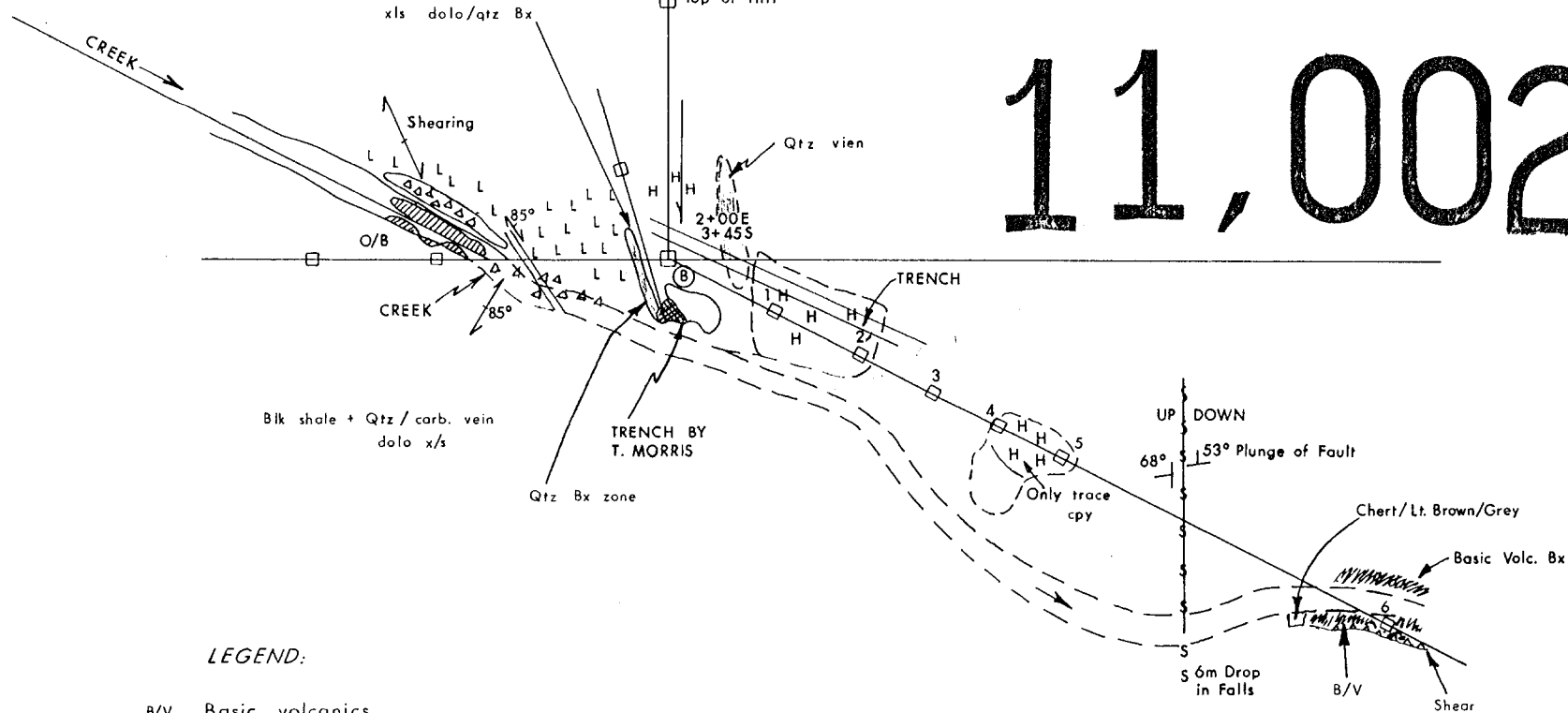


B/L 3+005 2+00E

Slope of hill from point A to B

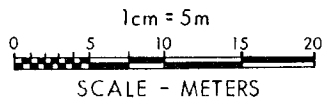
# GEOLOGICAL BRANCH ASSESSMENT REPORT

# 11,002



### LEGEND:

- B/V Basic volcanics
- <sup>3</sup> Stations on survey
- ▨ Blk shale
- △△△ Breccia - dolo + qtz
- H<sub>H</sub>H Hematite stained dolo/py + cpy + tetrahedrite (breccia)
- L<sub>L</sub>L<sub>L</sub> Limonite staining
- O/B Overburden
- xls Crystals
- Qtz Quartz



DEKALB MINING CORPORATION

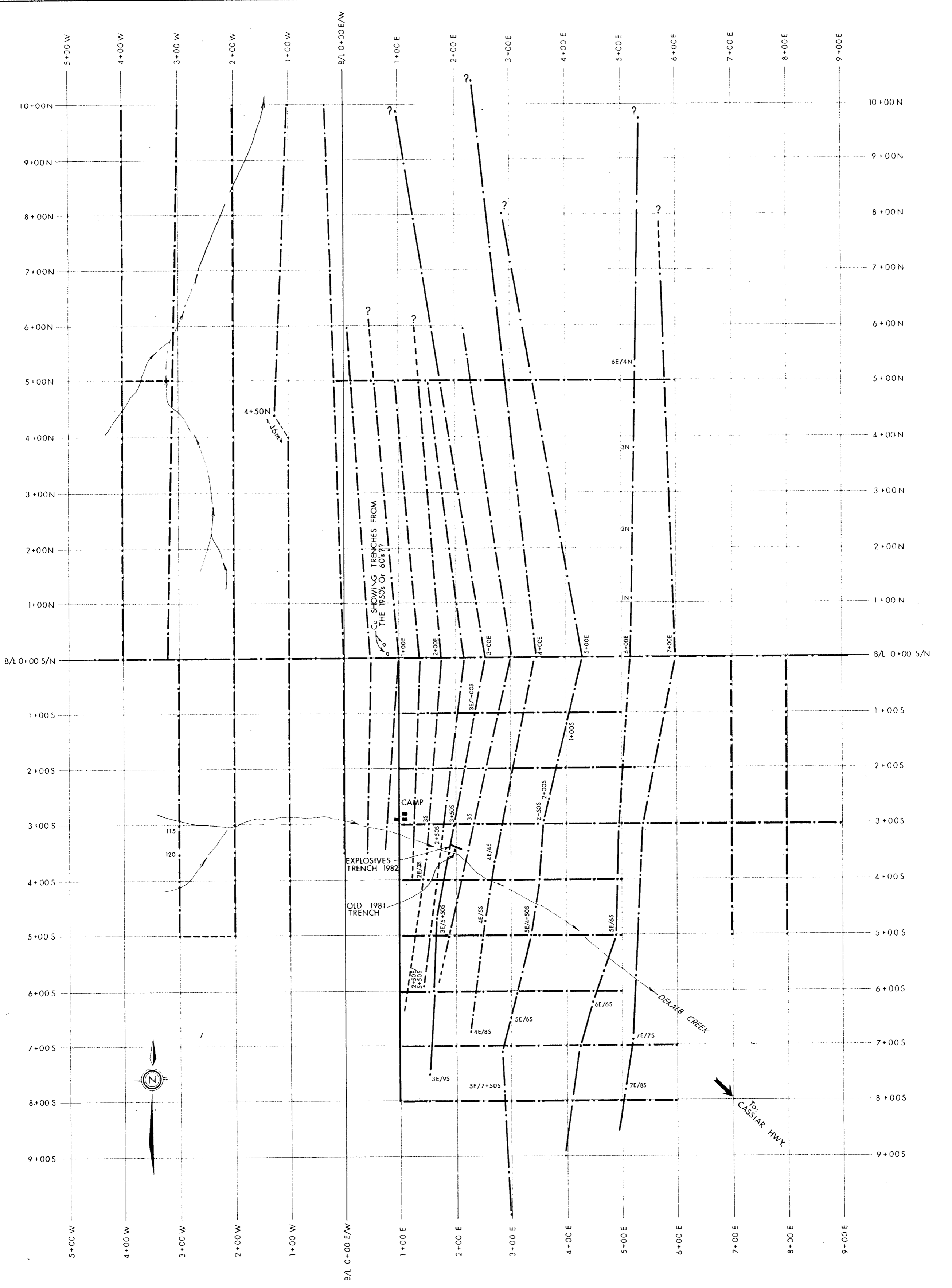
## M<sup>C</sup>DAME CREEK

SKETCH OF DEKALB #6 CLAIM  
MAIN SHOWING

*Fig 5*

BY: W. THOMPSON

JULY 1982



11,002

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

DEKALB MINING CORPORATION

MCDAME CREEK

LOCATION OF 1981 & 1982 GRIDS

Fig 6

SCALE: 1:50,000

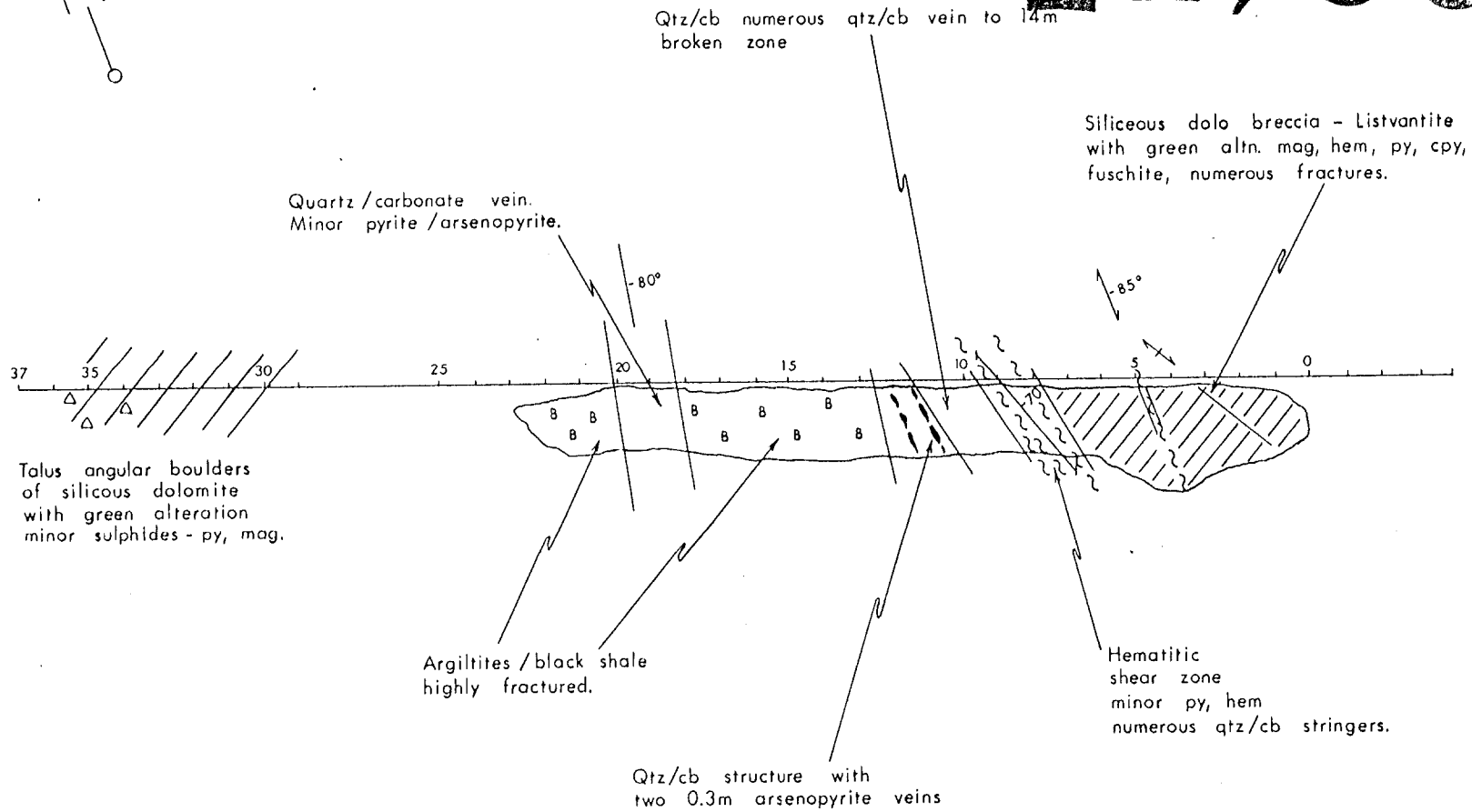
By W. THOMPSON

SEPT. 1982

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

← 290°

11,002



LIST OF SAMPLES:

0.0 - 2.4 m	# 14269
2.4 - 4.6	# 14270
4.6 - 7.1	# 14271
7.1 - 9.2	# 14272
9.2 - 11.0	# 14273
11.0 - 12.5	# 14274
12.5 - 18.2	# 14275
18.2 - 20.0	# 14276
20.0 - 23.0	# 14277
30.0 - 36.0	# 14278
0.3m 11.2m	# 14279
-6.0m	# 14280



DEKALB MINING CORPORATION

M<sup>c</sup>DAME CREEK

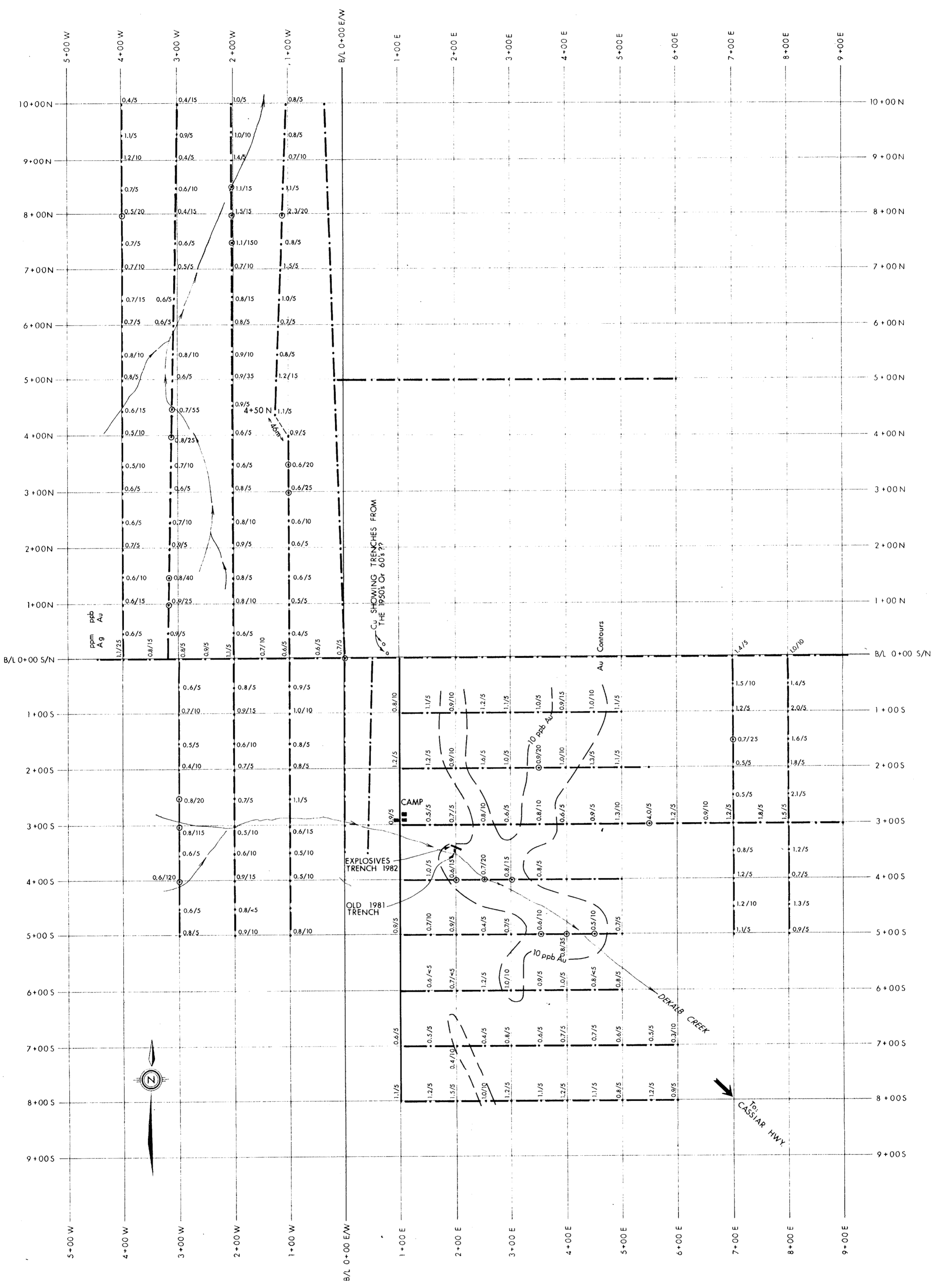
DEKALB #6 MAIN SHOWING  
MAP OF TRENCH

FIGURE 7

BY: W. THOMPSON

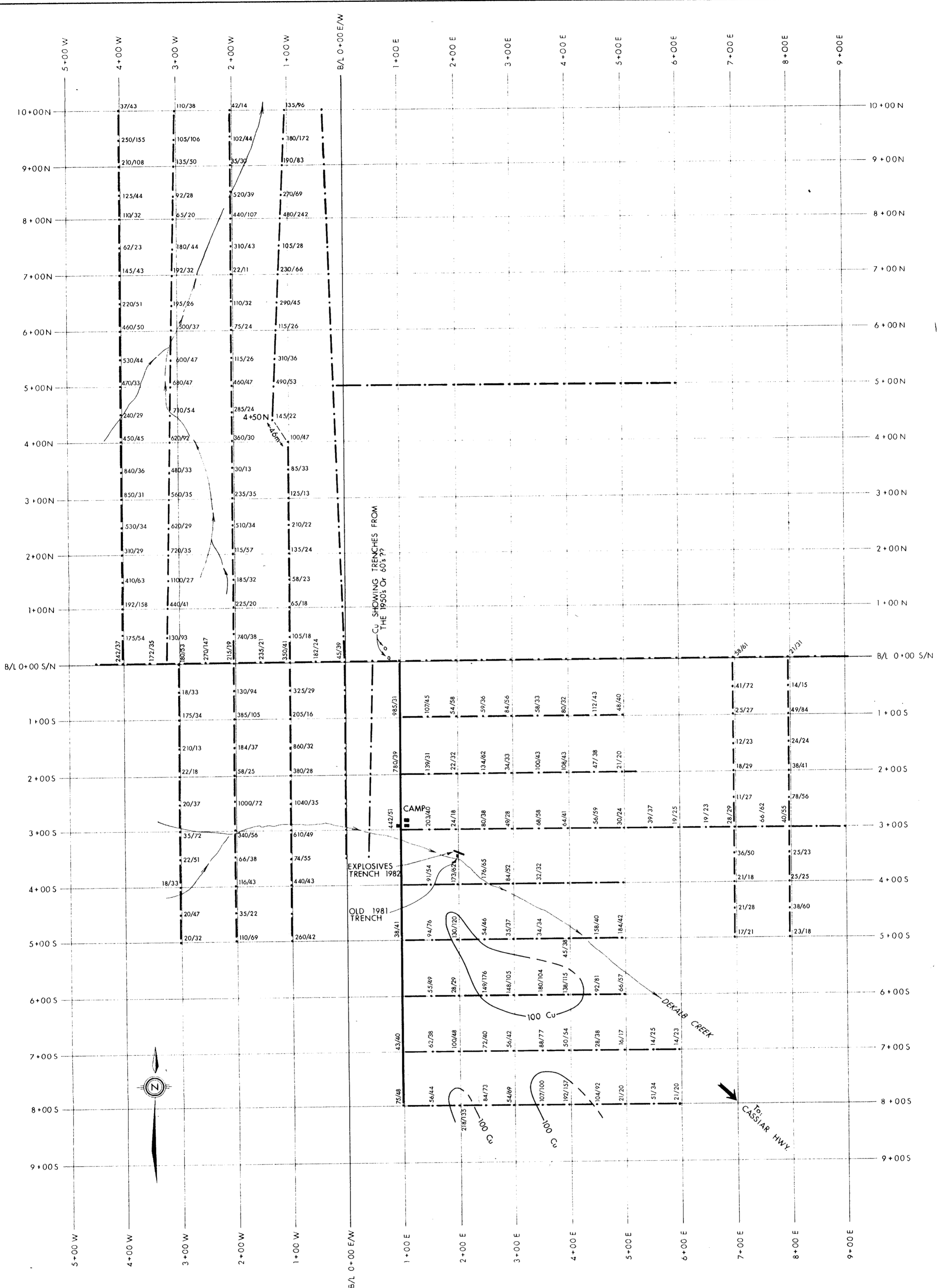
JULY 1982





**11,002**  
**GEOLOGICAL BRANCH**  
**ASSESSMENT REPORT**

<b>DEKALB MINING CORPORATION</b>
<b>MCDAME CREEK</b>  SOIL GEOCHEMISTRY Ag IN ppm /AND Au IN pbb
<i>Fig 8</i>
SCALE: 1:50,000 <span style="margin-left: 100px;">By W. THOMPSON</span> <span style="float: right;">SEPT. 1982</span>



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

11,002

DEKALB MINING CORPORATION

MCDAME CREEK

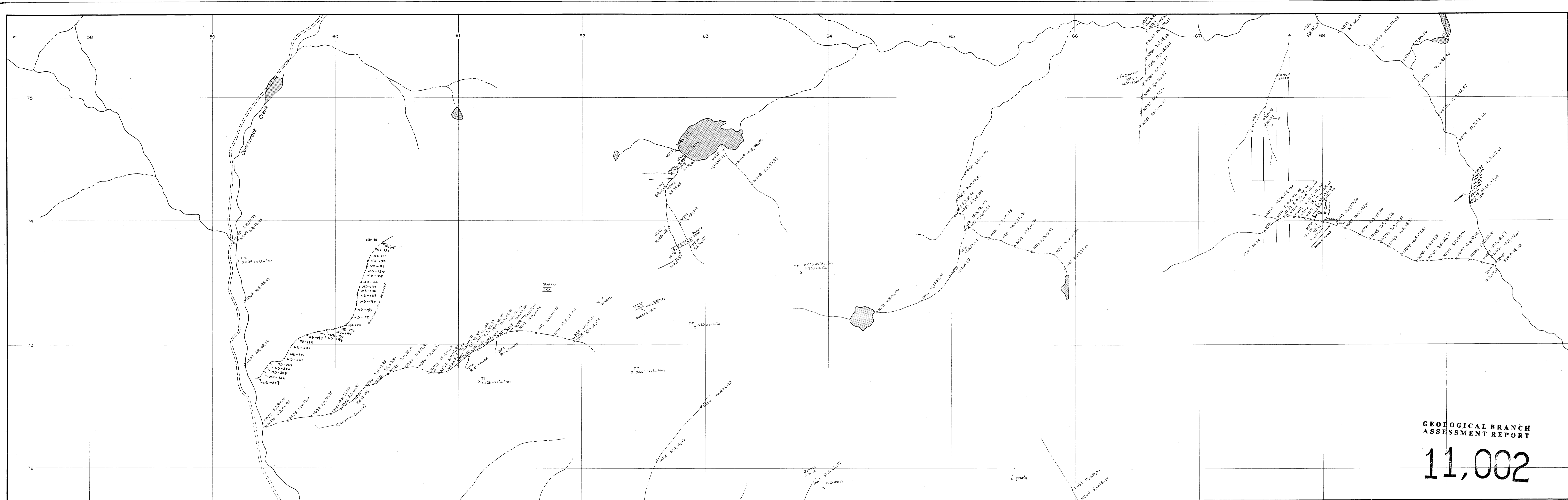
Ni/Cu SOIL GEOCHEMISTRY IN ppm

Fig. 9

SCALE: 1:50,000

By W. THOMPSON

SEPT. 1982

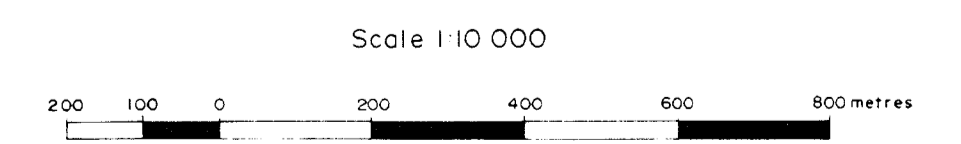


GEOLOGICAL BRANCH  
ASSESSMENT REPORT

11,002

LEGEND

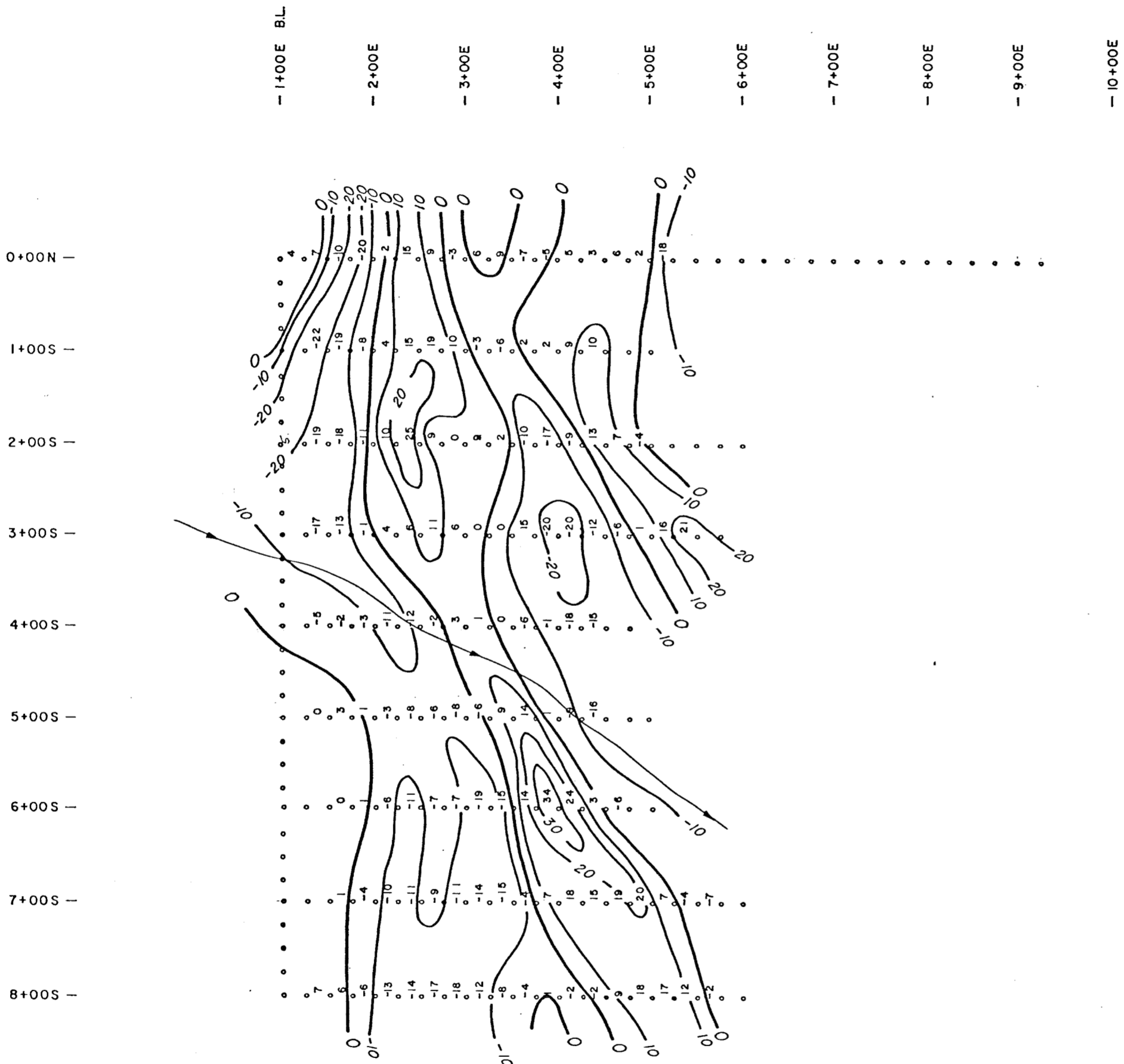
66 UTM Coordinates




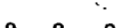

DEKALB MINING CORPORATION	
DEKALB GROUP McDAME CREEK British Columbia	
SILT SAMPLE SURVEY BASE MAP	
Assays in ppb - Cu in ppm Au, Ag, Ni, Co, Sample No - prefixed ND. 101 ND-25.	
NTS: 104 P 5	DATE: 82-06-14
FIGURE: 10	DRAFTED BY: S.K.S.Lillie

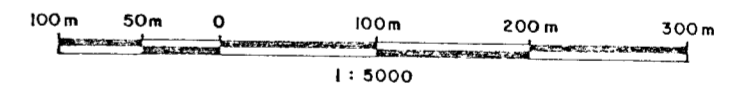
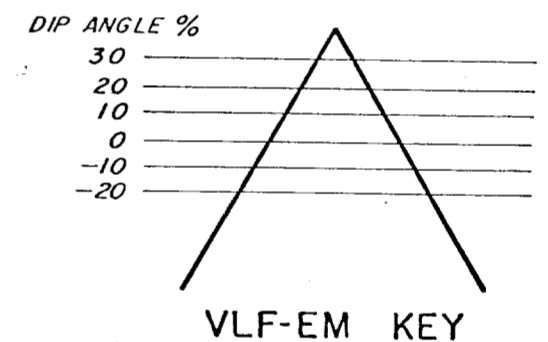
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

11,002



LEGEND:

-  STREAM
-  GRID STATIONS
-  FILTERED DIP ANGLE CONTOURS - %
- INSTRUMENT: CRONE VLF-EM



DEKALB MINING CORPORATION McDAME CREEK PROJECT	
VLF-EM SURVEY FRAZER FILTERED DIP ANGLE - 75m WINDOW	
	INTERPRETED BY:
	DRAWN BY: N.L.P.
	DATE: AUG. / 82
	FIGURE NO.: 11