

GEOCHEMICAL AND GEOLOGICAL REPORT

ON

YANKEE GIRL / BELL CLAIMS

NTS 82E/2

LATITUDE - 49° 2' N

LONGITUDE - 118° 30' W

for

Midland Energy Corporation

8121 - Wilshire Boulevard

North Delta, B.C.

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**10,879**

July 23, 1982

Box 63

Westbridge, B.C.

Roy Kregosky

BSc. Geology

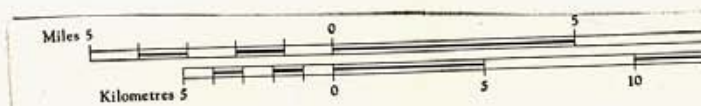




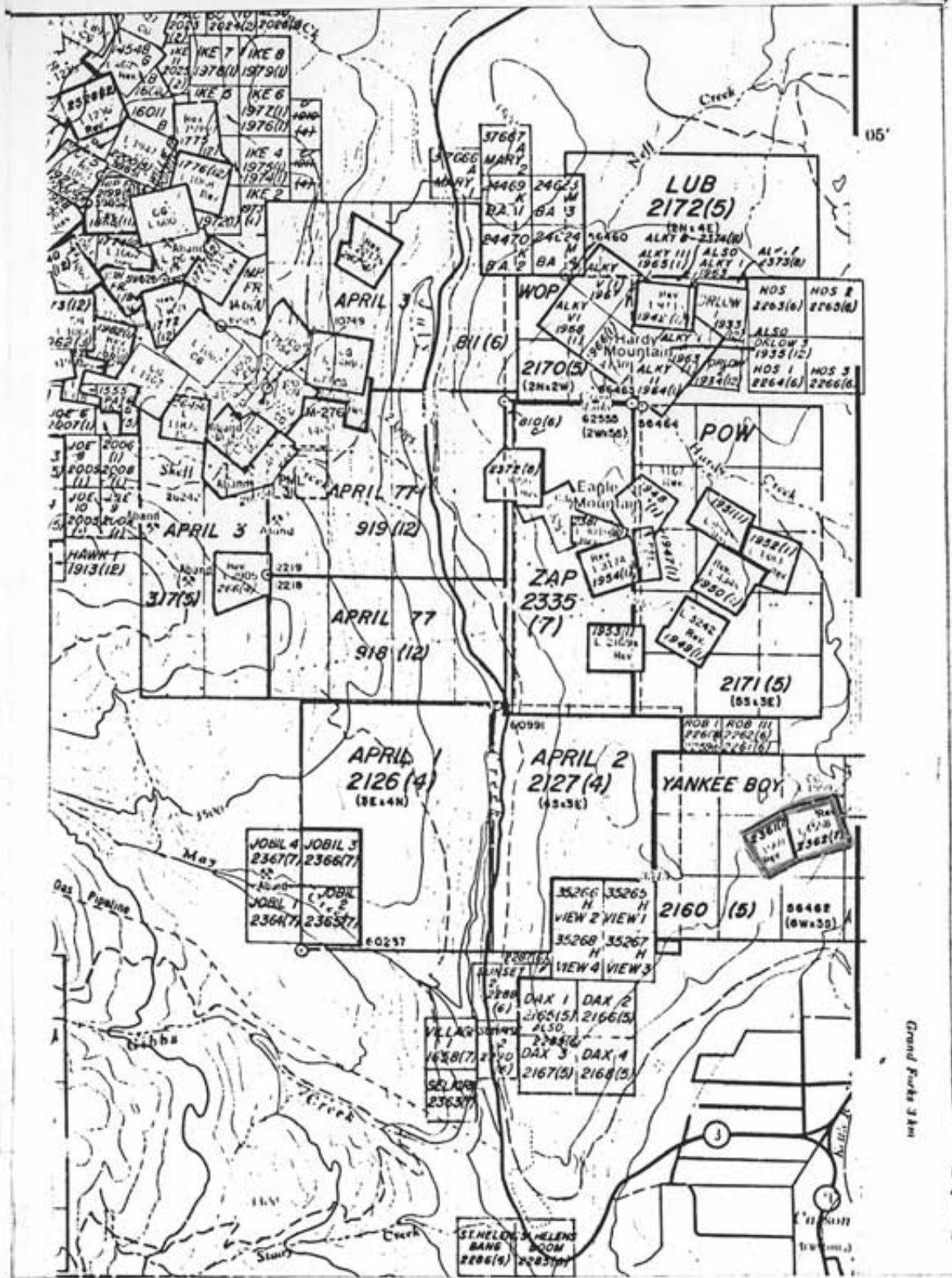
# PENTICTON

## BRITISH COLUMBIA

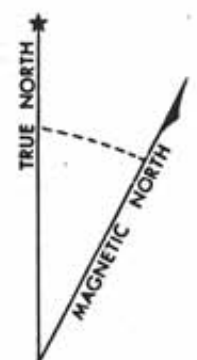
Scale 1:250,000 Échelle



M 82E / 2

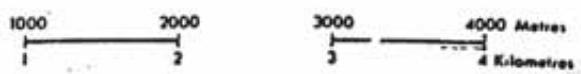


GREENWOOD MINING DIVISION



M 82E / 2

1:50 000



Mineral Claim

Boundary

LANDS WORKS DEPARTMENT  
 FIDA  
 28 FEB 1900  
 VICTORIA, B. C.

LANDS WORKS DEPARTMENT  
 28 FEB 1900  
 VICTORIA, B. C.

YANKEE GIRL

BELL

L. 1560

L. 1560

*Clark Ellwood P.S.*

*Clark Ellwood P.S.*

PLATE 2

Ast. N

SCALE 3000"  
 36" M = 1 CM.

N 56° 21' E 956.0  
 P. 6

N 56° 21' E 1500  
 P. 5

N 56° 21' E 1506.6  
 P. 3

N 71° 43' E 1500  
 P. 5

N 71° 43' E  
 P. 3

N 71° 43' E 1500  
 P. 7

N 51° 16' E 1500  
 P. 2

750'

750'

214.5  
 532.5  
 194.0

750'

1500'

750'

750'

750'

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750'

547.6

145° 55'

1865.6

1426.6

1426.6

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# General Testing Laboratories

A Division of SGS Supervision Services Inc.

1001 EAST PENDER ST. VANCOUVER, B.C., CANADA V6A 1W2  
PHONE (604) 254-1647 TELEX 04-507514 CABLE SUPERVISE

TO:  
**Kear Resources Ltd.**  
197 Cranby Ave.,  
Penticton, B.C.  
V2A 2Z1  
  
**Attn: Mr. John Koberhan**

## CERTIFICATE OF ASSAY

No. **8206-1750**      DATE **July 5/82**

We hereby certify that the following are the results of assays on: **Ore**

MARKED	GOLD	SILVER	XXX	XXX	XXX	XXX	XXX	XXX
	oz/st	oz/st			Gold	Silver		
[REDACTED]								
[REDACTED]								
[REDACTED]								
[REDACTED]								
[REDACTED]								
[REDACTED]								
1883	0.098	0.31						
1884	0.072	0.16						
[REDACTED]								
[REDACTED]								
[REDACTED]								
[REDACTED]								

cc. Mr. Arnie Koberhan

NOTE: REJECTS RETAINED ONE MONTH PULPS RETAINED THREE MONTHS ON REQUEST PULPS AND REJECTS WILL BE STORE FOR A MAXIMUM OF ONE YEAR

REPORTS ARE THE CONFIDENTIAL PROPERTY OF CLIENTS. PUBLICATION OF STATEMENTS, CONCLUSION OR EXTRACTS FROM OR REGARDING OUR REPORTS IS NOT PERMITTED WITHOUT OUR WRITTEN APPROVAL. ANY LIABILITY ATTACHED THERETO IS LIMITED TO THE FEE CHARGED

**L. Wong**

PROVINCIAL ASSAYER

Analytical and Consulting Chemists, Bulk Cargo Specialists, Surveyors, Inspectors, Samplers, Weighers

MEMBER: American Society For Testing Materials • The American Oil Chemists Society • Canadian Testing Association  
REFEREE AND OR OFFICIAL CHEMISTS FOR: National Institute of Oilseed Products • The American Oil Chemists Society  
OFFICIAL WEIGHMASTERS FOR: Vancouver Board Of Trade

PLATE 3 A



TO:  
 MIDLAND ENERGY  
 197 Granby Ave,  
 Penticton, B.C.  
 Attn: Mr. John Kucherhan

**General Testing Laboratories**  
 A Division of SGS Supervision Services Inc.

1001 EAST PENDER ST., VANCOUVER, B.C., CANADA, V6A 1W2  
 PHONE (604) 254-1647 TELEX 04-507514 CABLE: SUPERVISE

**CERTIFICATE OF ASSAY**

No.: 8206-1752 A DATE: July 5/82

We hereby certify that the following are the results of assays on: Soil

MARKED	GOLD	SILVER	Lead	Zinc	Copper	XXX	XXX	XXX
	Au (ppm)	Ag (ppm)	Pb (ppm)	Zn (ppm)	Cu (ppm)			
BLO 00	0.04	0.6	33	59	33			
BLO 60W	0.03	0.7	27	69	38			
BL1 20W	0.02	0.4	15	51	23			
BL 1 80W	0.04	0.4	15	52	22			
BL2 40W	0.03	0.6	18	60	25			
BL3 00W	0.03	0.4	17	64	29			
L0+00 0+30W	0.67	1.3	315	137	63			
L0+00 0+60W	0.03	0.6	27	84	35			
L0+60W 0+30N	0.03	0.6	19	57	28			
L0+60W 0+30S	0.04	0.6	30	58	33			
L0+60W 0+60N	0.07	0.4	22	53	21			
L1+20W 0+30N	0.02	0.3	13	53	21			
L1+20W 0+30S	0.02	0.4	36	59	33			
L1+20W 0+60N	0.02	0.3	16	61	23			
L1+20W 0+60S	0.03	0.6	27	63	39			
L1+20W 0+90S	0.16	0.6	22	64	49			
L1+20W 1+20S	0.03	0.6	27	62	56			
L1+80W 0+30N	0.04	0.3	15	47	20			
L1+80W 0+30S	0.04	0.4	27	62	35			
L1+80W 0+60S	0.04	0.4	22	59	46			
L1+80W 0+00S	0.04	0.4	23	55	28			
L1+80W 1+20S	0.03	0.6	22	63	51			
L2+40W 0+30S	0.03	0.4	20	55	30			
L2+40W 0+30N	0.04	0.57	18	63	22			
L2+40W 0+60N A	0.05	0.4	15	60	23			
L2+40W 0+60N B	0.03	0.6	22	61	28			
L2+40W 0+90S	0.03	0.4	25	58	34			
L2+40W 1+20S	0.05	0.4	17	42	30			
L3+00W 0+30N	0.04	0.4	18	72	27			
L3+00W 0+30S	0.04	0.4	17	43	18			
L3+00W 0+60S	0.08	0.4	17	42	17			
L3+00W 0+60N	0.07	0.4	17	46	21			
L3+00W 0+90S	0.07	0.4	19	52	26			
L3+00W 1+20S	0.04	0.3	17	53	22			

cc. Mr. Arnie Kucherhan  
 cc. Mr. Roy Kregosky

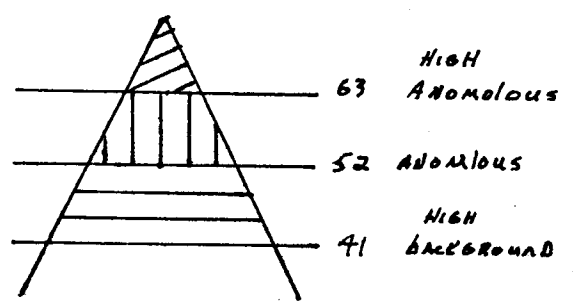
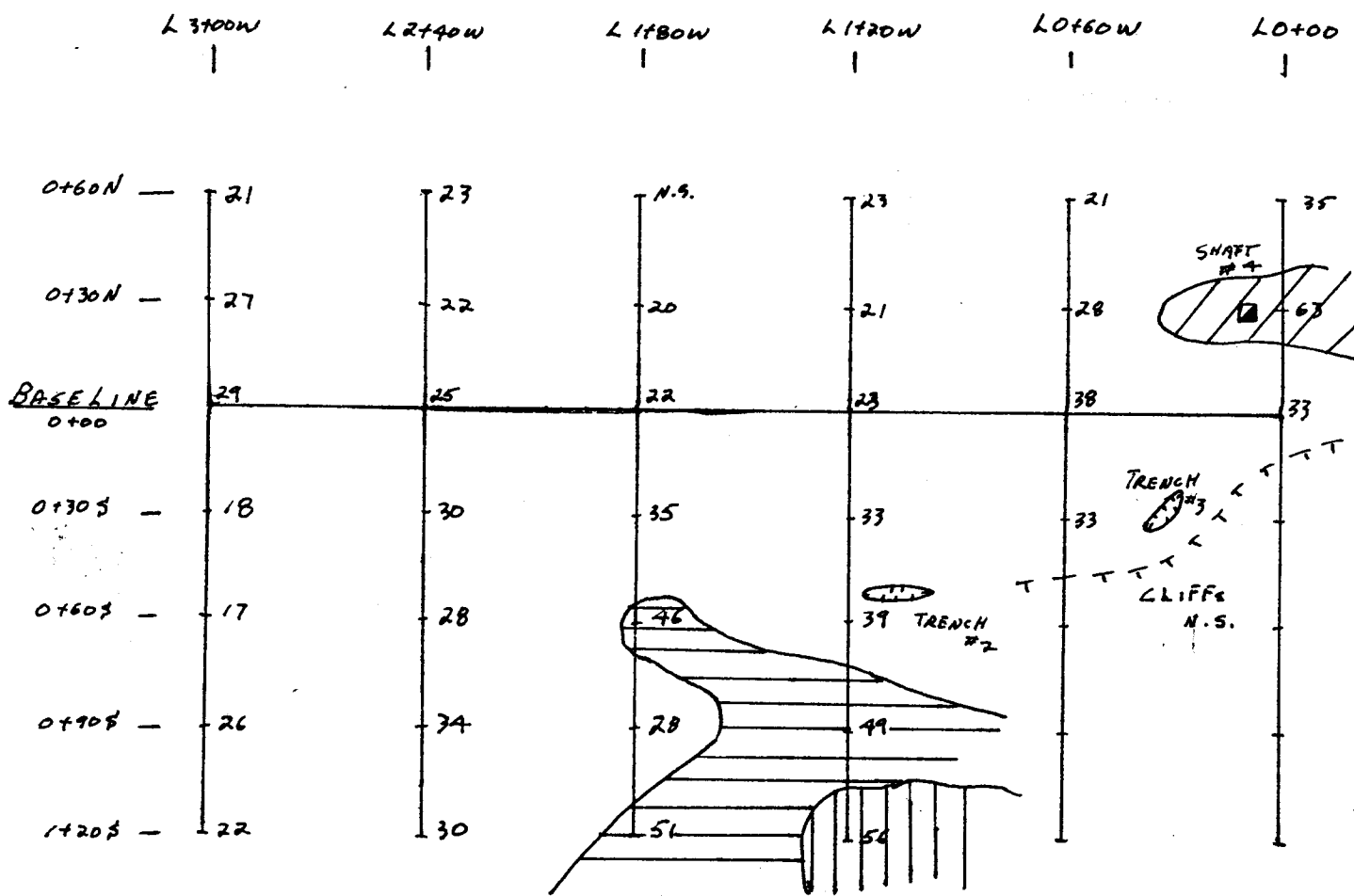
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L. Wong PLATE 3B  
 PROVINCIAL ASSAYER

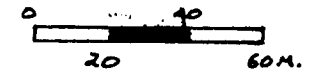
Analytical and Consulting Chemists, Bulk Cargo Specialists, Surveyors, Inspectors, Samplers, Weighers

MEMBER: American Society For Testing Materials • The American Oil Chemists Society • Canadian Testing Association  
 REFEREE AND OR OFFICIAL CHEMISTS FOR: National Institute of Oilseed Products • The American Oil Chemists' Society  
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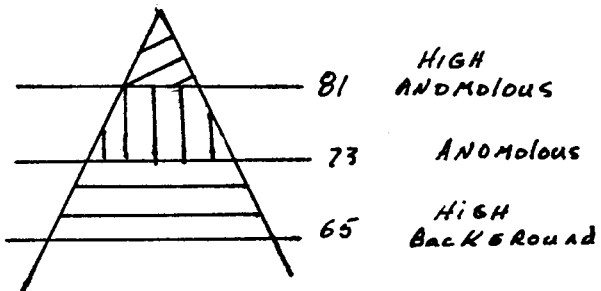
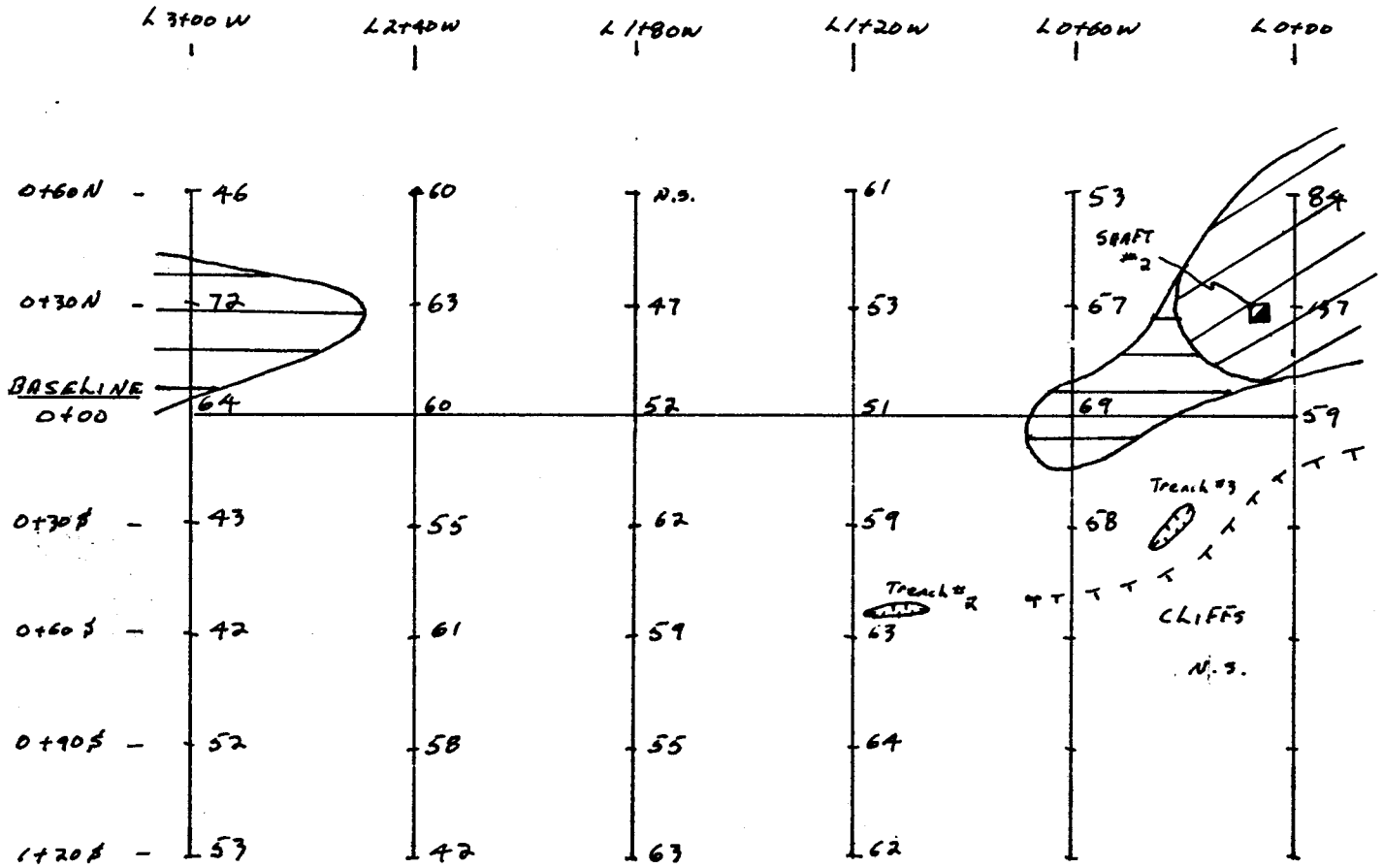


GEOCHEMICAL RESULTS - CU-P.P.M.

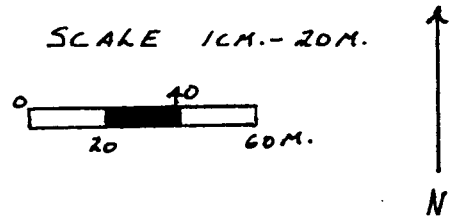
SCALE: 1CM. - 20M.

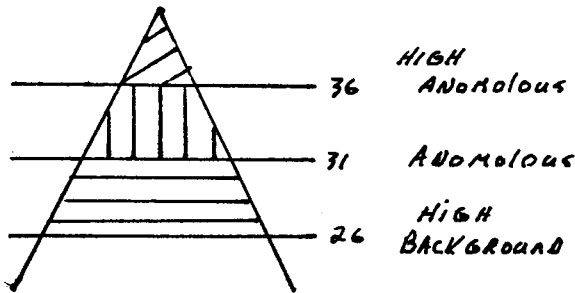
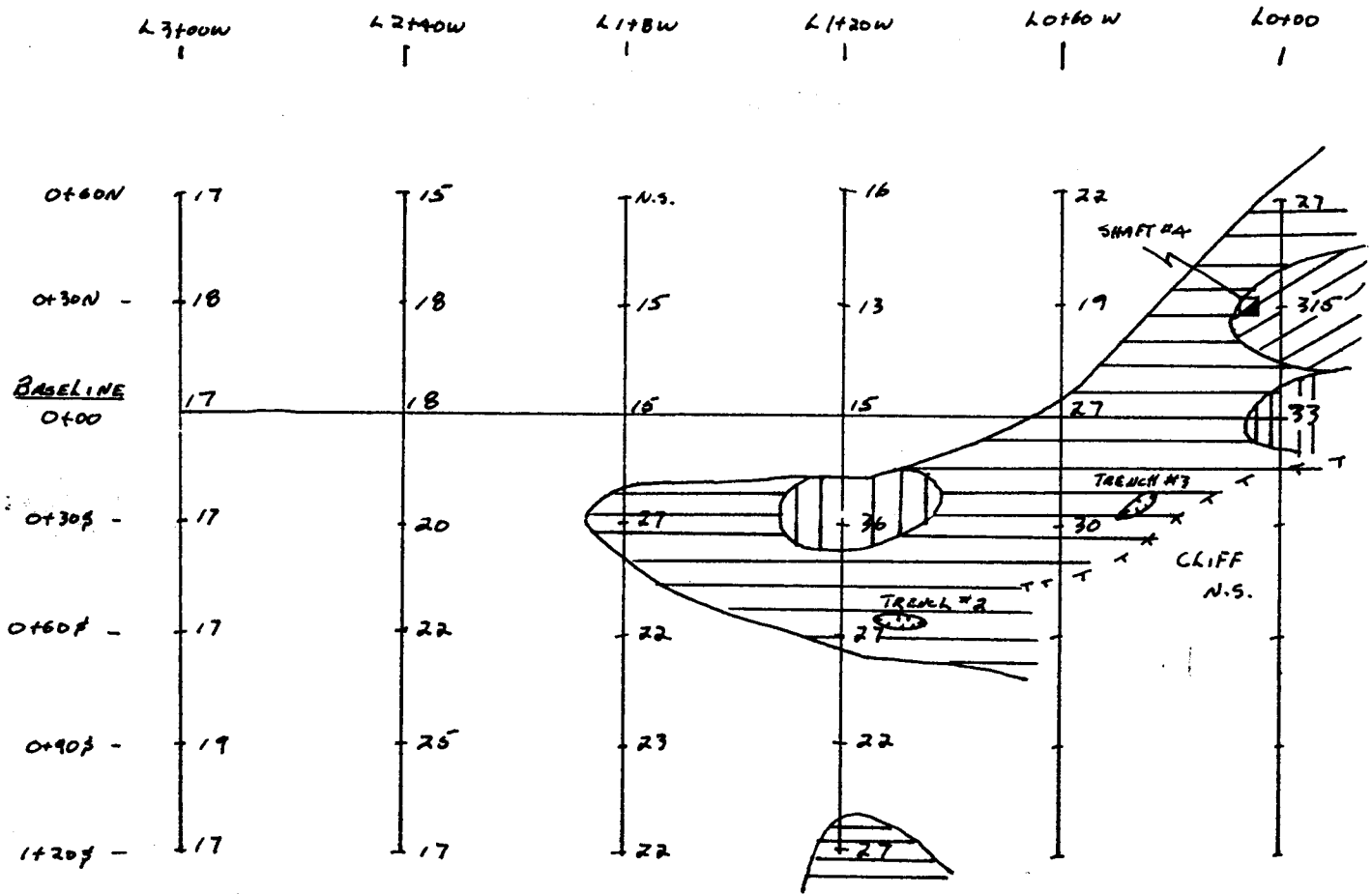






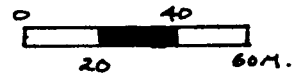
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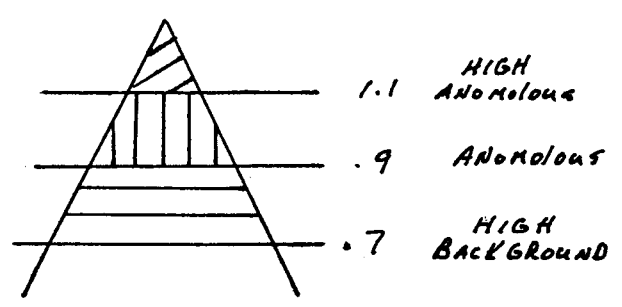
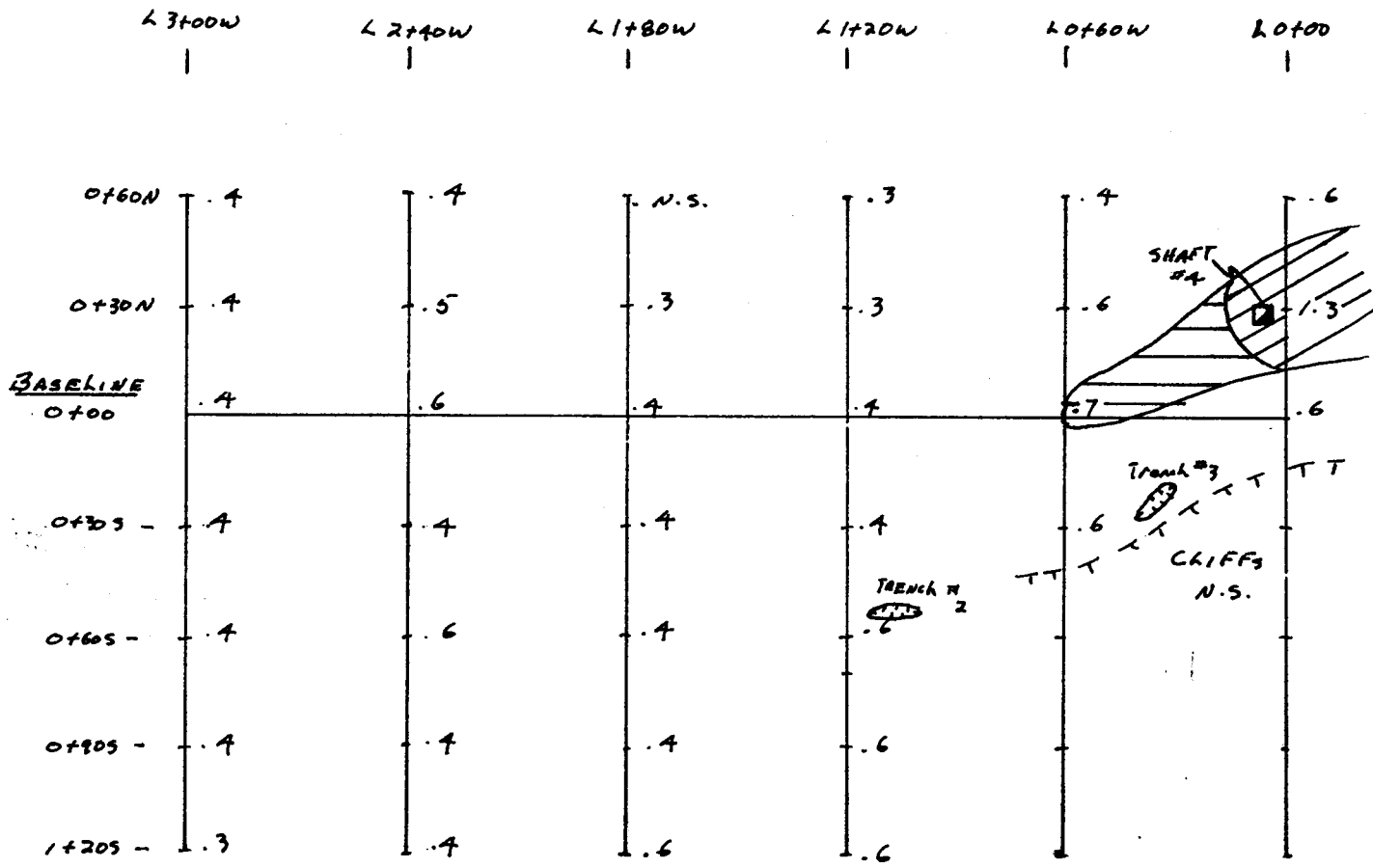




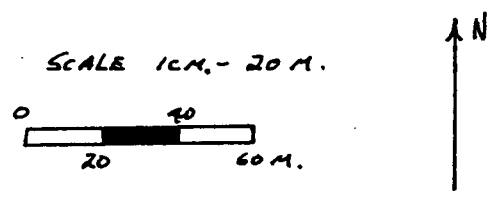
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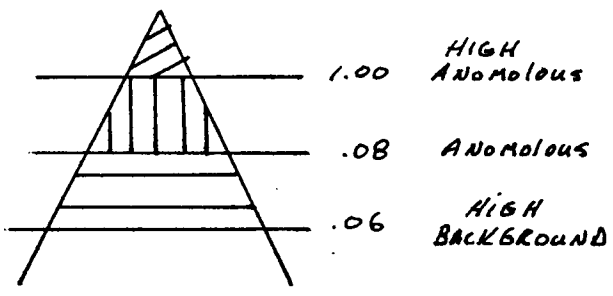
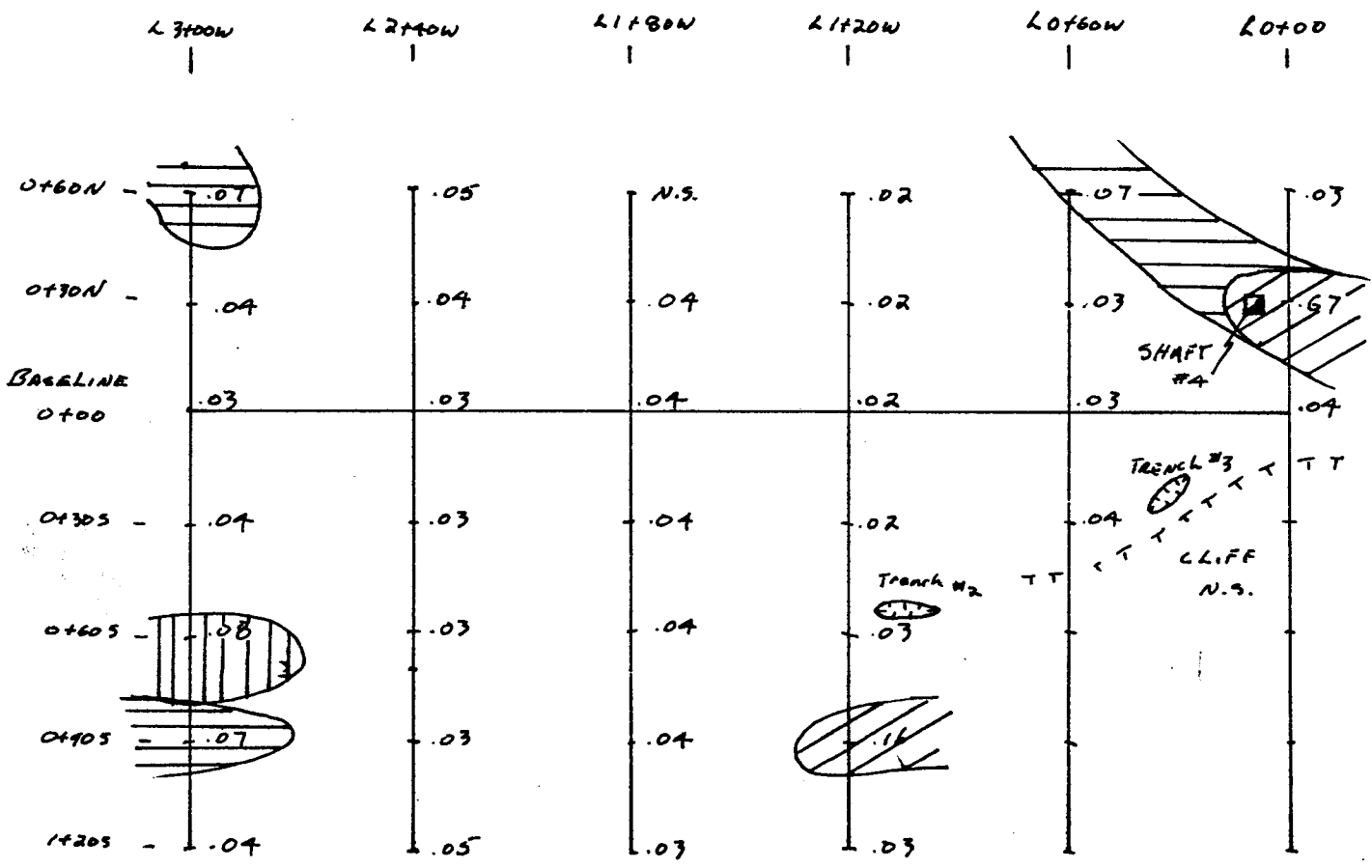
SCALE 1CM. - 20 M.





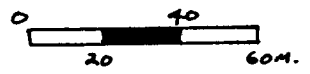
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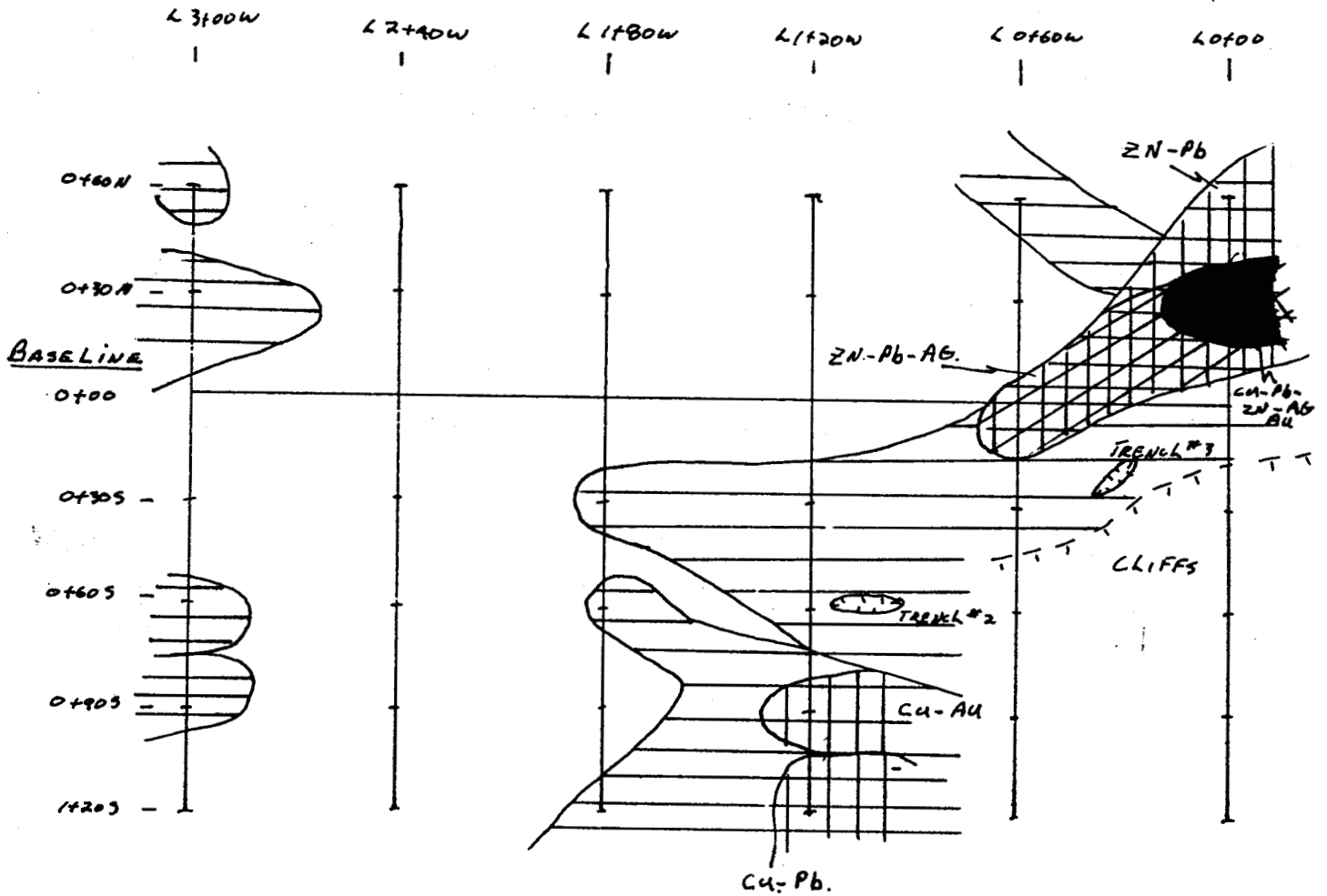









GEOCHEMICAL RESULTS - AU - P.P.M.

SCALE 1CM - 20M.



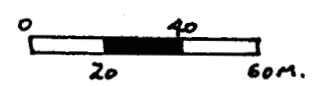


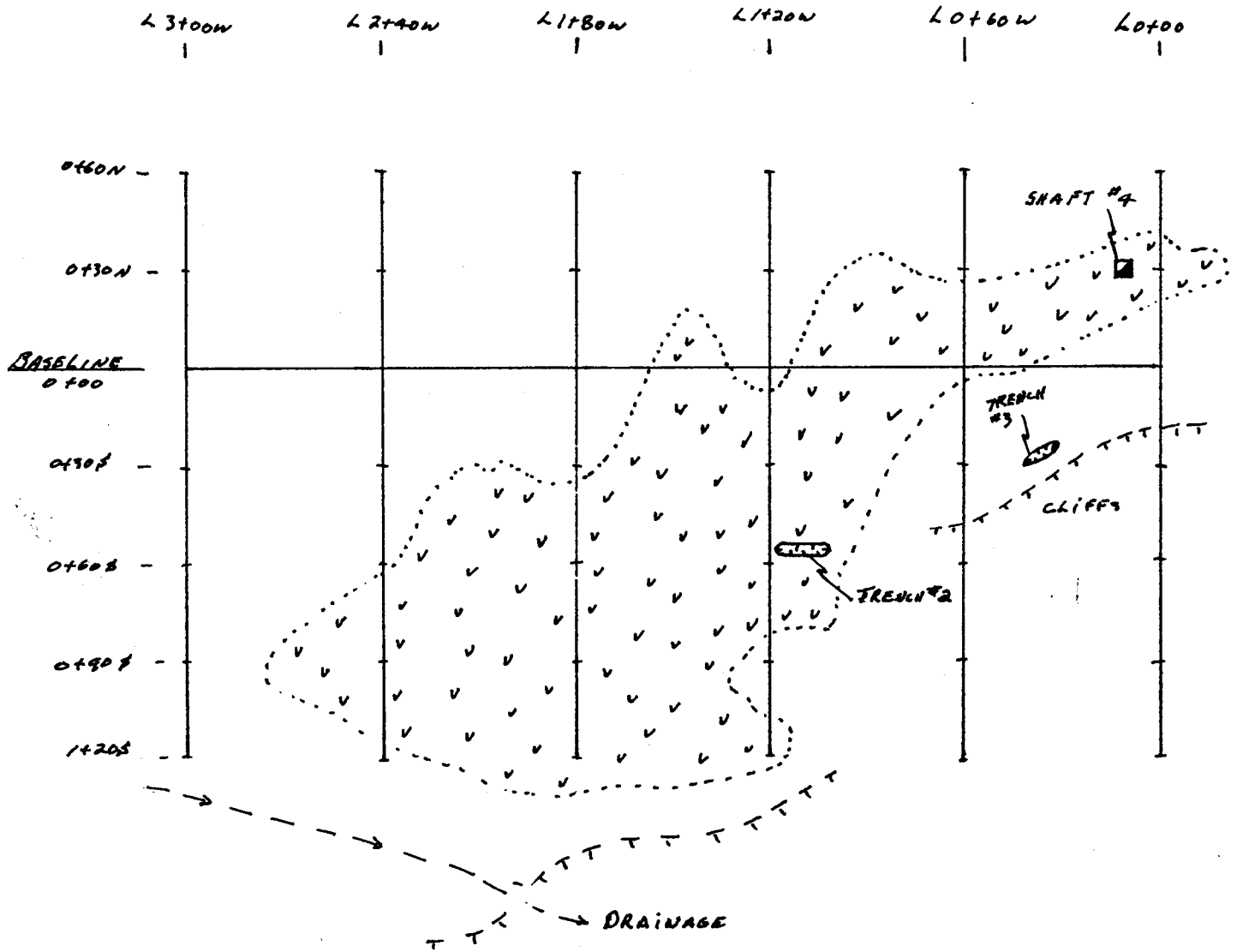
-  - 1 METAL
-  - 2 METALS
-  - 3 METALS
-  - 4 METALS
-  - 5 METALS

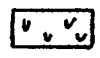


GEOCHEMICAL RESULTS


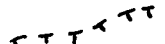

COMPOSITE OF ANOMALIES

SCALE 1CM. = 20M.

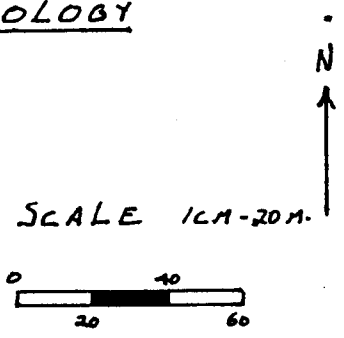


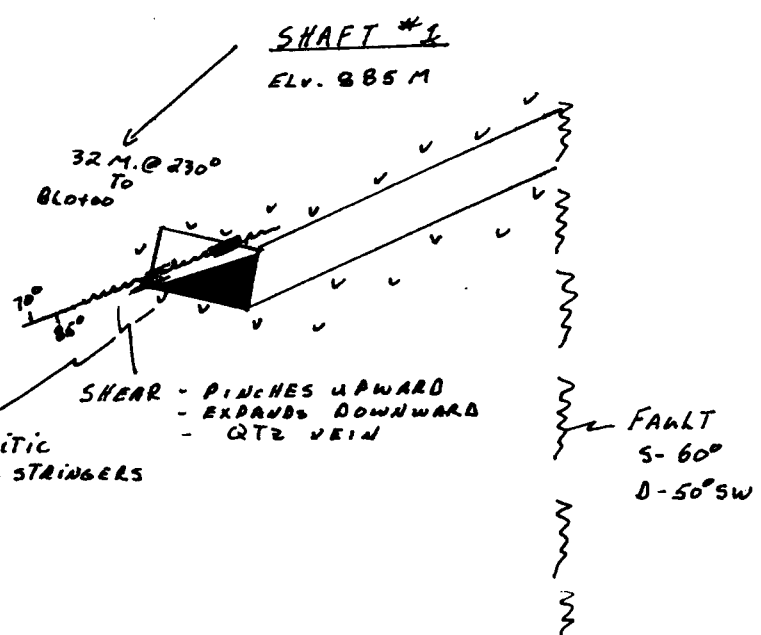
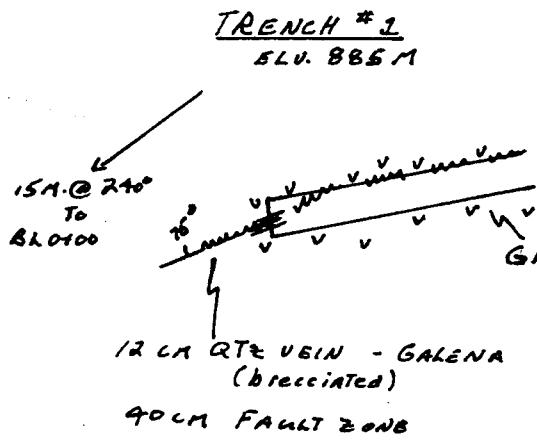


-  - GREENSTONE
-  - TRENCH
-  - SHAFT

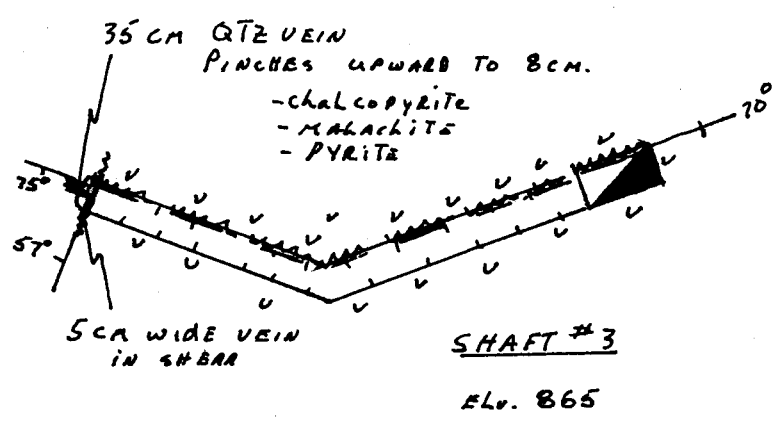
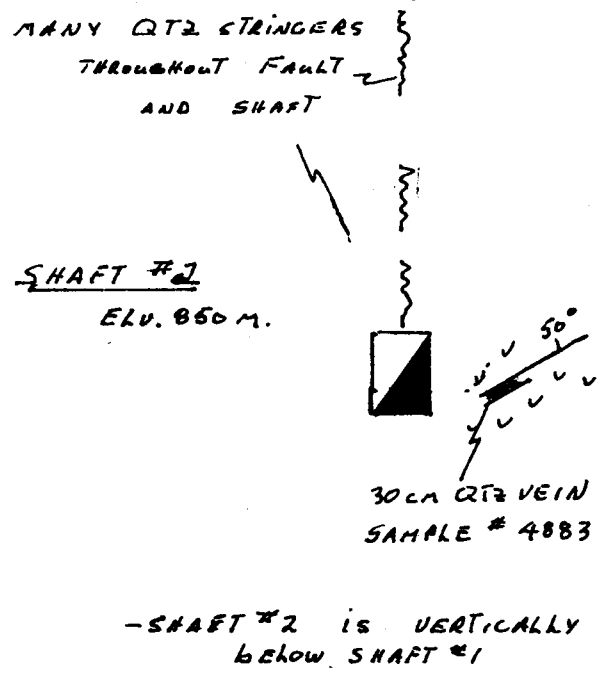
-  - OUTCROP - SCATTERED
-  - CLIFFS
-  - DRAINAGE

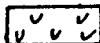
GEOLOGY



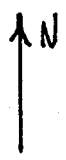
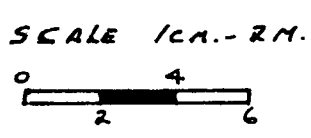


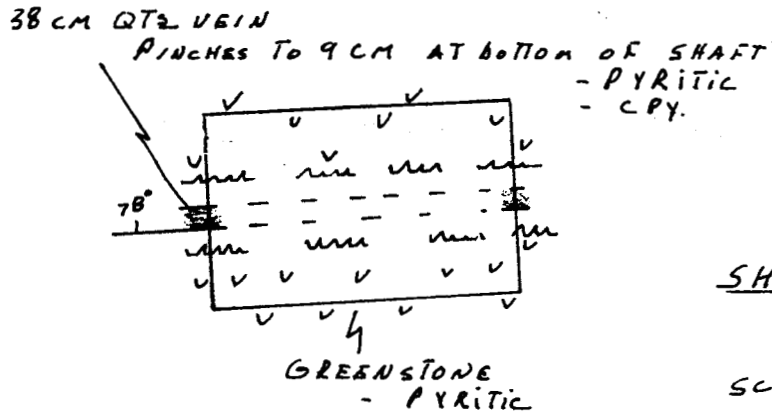
- SHAFT #3 is VERTICALLY below TRENCH #1
- QTZ STRINGERS IN SHEAR ZONE



 - GREENSTONE

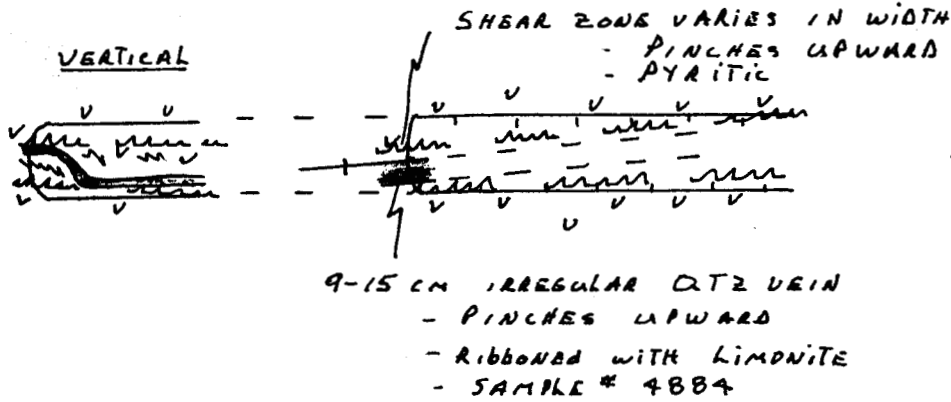
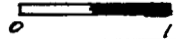
GEOLOGY - SHOWINGS - YANKEE GIRL





SHAFT #4

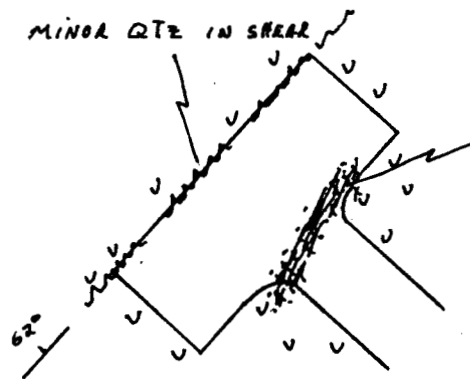
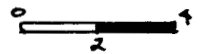
ELV 890M.  
(0+5W 0+30N)  
SCALE: 1CM - 50CM.



PLAN

TRENCH # 2  
(1+5W 0+55N)

SCALE: 1CM - 2M.



HEAVILY BRECCIATED ZONE  
ROCKS VERY SILICEOUS  
- PYRITIC  
- LIMONITIC

TRENCH # 3

SCALE: 1CM - 50CM.



GEOLOGY - SHOWINGS





INTRODUCTION

In response to a request by Midland Energy Corporation, 8121 - Wilshire Boulevard, N. Delta, B.C., the author examined the Yankee Girl (lot 1558) and Bell (lot 1560) during the two days June 10 and June 11, 1982.. These two reverted crown grants are located approximately 7 kilometers from the centre of Grand Forks. Access is from Highway 3 west of Grand Forks along the Hardy Mountain Road for an additional 5.5 kilometers. The property is easily accessible by two-wheel drive vehicles.

The property is located in the Midway Range of the Mcnashee Mountains and is part of the southern flank of Hardy Mountain. The northern extremity of the claims has a shallow slope with a northerly exposure and is heavily overburdened and covered in moderately dense secondary growth with heavy undergrowth. In comparison the southern portion of the claims has a south exposure with a steep and in places a vertical slope. This area is very dry and covered in grasslands with mature growths of Douglas Fir and Ponderosa Pine. Outcrop exposure is good in the southern but poor in the northern portions. There is sufficient timber for development purposes but water may be in limited supply.

The current owner of the two reverted crown grants is Midland Energy Corporation of 8121 - Wilshire Boulevard, N. Delta, B.C. The property has had extensive historical development consisting of numerous trenches, shafts and adits. This development is well documented in various Ministry of Mines Annual Reports for the years 1900, 1901, 1905, 1919, 1920, 1923-25, 1930 and 1934. A report for the year 1934 reports a sample of ore from a winze assayed: "gold 9.70 oz./ton, silver 2.5 oz./ton". Mineralization is reported to consist of; "...pyrite and lesser amounts of chalcopyrite and galena in a gangue of quartz that occur in fissures and fractures

with free walls in greenstone. They vary from a few inches to 3 feet in width, strike between north-east and east, and dip generally at steep angles to the north."

The Geological Survey of Canada Map 6-1957 indicated the claim area to be underlain by rocks of the Anarchist Group consisting of Greenstone, greywacke and limestone. This was verified by the field work which found all the outcrops in the claim area to be that of one type, the greenstone. The Geological Survey of Canada map also indicates local outcroppings of the Nelson Intrusions but none were encountered during the field work.

The exploration work on the property consisted of conducting a geochemical and geological survey. (Plates 4-9) The surveys were based on a grid with stations positioned 30 meters apart on lines 60 meters apart. The baseline was oriented E-W with crosslines perpendicular to this running N-S. A total of 35 soil samples were collected from the B soil horizon which ranged from 15-25 cm. in depths. All samples were hand sorted for rock and organic material and placed into prenumbered Kraft paper envelopes. The soil samples were analyzed for Cu, Pb, Zn, Ag, Au. These samples were sent to General Testing Labs, 1001 - E. Pender St., Vancouver, B.C. They were dried out and sieved to -80 mesh and then analysis carried out with atomic absorption after hot acid digestion. The geological survey consisted of mapping the surface bedrock exposures plus mineralized showings. Two chip samples (Plate 3A) were taken for assay.

#### TECHNICAL DATA AND INTERPRETATION

The purpose of the field reconnaissance was to try and locate a continuation of the known mineralized quartz veins on the Yankee Girl reverted crown grant. The geochemical survey indicated that a number of the stations contained anomalously high samples (Plate 9). This is especially true

of station O+30N on L0+00. The anomolous trend from this station southwesterly to BL O+60W is probably an expression and continuation of the mineralization found in Shaft #4. The coincidence of anomolous values at stations O+90S and 1+20S on line 1+20W (Plate 9) are probably the result of down slope, either mechanically or by groundwater seepage, migration of mineralization that is found at trench #2. The Cu (Plate 4) and Pb (Plate 6) values indicate a possible continuation of the southwest trend in anomolous values from L0+00 O+60N to L1+80W O+60S. Various other isolated anomolous zones were located on the grid, notably for Au, that, through field evidence, could not be explained. The value for Au at L3+00W O+60 and O+90S could indicate a continuation of the above southwest trend but it is surprising that no other anomolous minerals were encountered at these locations.

The geological mapping conducted on the grid indicated the rock type to be greenstone as an altered intermediate-basic igneous rock. The greenstone is a fine grained, siliceous rock that tends to be chloritic giving the rock its distinctive green color. Numerous old showings were located on the grid with some very extensive workings just east of BL0+00. These workings, consisting of deep shafts and pits, were not examined by the author though numerous quartz veins and feathers were observed. These quartz veins were associated with shear zones in the greenstone. This was also true of the other showings that were mapped by the author. In all cases the greenstone was heavily fractured and sheared with alteration being more extensive than the adjacent country rocks. The wall rocks were normally pyritic and very siliceous and intruded by numerous quartz feathers. The shear/vein zones were very irregular pinching and swelling along strikes and dips that also varied in direction. Chalcopyrite, malachite, galena and iron pyrite occurred as stringers and disseminations in the quartz veins that trend in a northeast to easterly direction with dip to the northwest.

CONCLUSION

The geochemical survey indicates an anomolous zone that trends in a northeast-southwest direction which coincides with the trend of the known mineralized quartz veins.

It is possible that shaft #4 (Plate 4 and 12) and trench #2 (Plate 4 and 12) form a continuation of the same quartz vein that has undergone some lateral off-set. The geochemical survey also delineates isolated anomolous areas but usually only in one element and therefor open to interpretation. The geological survey indicates mineralized quartz veins that trend in a northeasterly direction and are associated with shear zones located in altered greenstones. The two chip samples (Plate 3A) sent for assay indicate moderate gold and silver mineralization though better values could increase along a strike continuity or with depth.

In view of the foregoing findings it is recommended that the property should undergo a mor extensive program of chip sampling so as to ascertain the mineral potential of the known quartz veins. As well, a trenching program could be undertaken to better expose the quartz veins and to try and explain the southwest trending geochemical anomoly. A grass roots geochemical program conducted throughout the property in view of the favorable geological environment.

ITEMIZED COST STATEMENT

1. Geologist services: R. Kregosky	
2 days @ \$125.00/day.....	\$250.00
2. 35 Geochemical samples	
Au @ \$5.00.....	\$125.00
Cu, Pb, Zn, Ag @ \$3.50.....	\$122.50
Sample preparation.....	\$43.70
3. 2 assays - Au and Ag @ \$9.50.....	\$ 19.00
4. 224 kilometers @ 20¢/km.....	\$ 44.80
5. Report Preparation.....	<u>\$125.00</u>
	\$780.00

AUTHOR'S QUALIFICATIONS

I, Roy D. Kregosky, declare that I am a practising Geologist having graduated in 1971 from the University of Calgary with a Bachelor of Science degree in Geology.

*Roy Kregosky*