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ASSESSMENT REPORT  
for the

SHAG 1-7 CLAIMS

GOLDEN MINING DIVISION, BC  
NTS 82J/11,12

Latitude 50 38'N, Longitude 115 30'W

Prepared for

ECSTALL MINING CORPORATION  
311-475 Howe Street  
Vancouver, BC  
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by

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VIC 5V6

Submitted: November 9, 1990

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**20,538**

## TABLE OF CONTENTS

	page
Summary.....	1
Introduction.....	2
Location, Access, Physiography, Title.....	3
History and Previous Work.....	5
Regional Geology.....	6
Property Geology ,Structure and Mineralization..	6
1990 Program.....	9
Results.....	10
Conclusion and Recommendations.....	11
References.....	12
Certificate of Qualification.....	13

LIST OF FIGURES

	page
Figure 1 General Location Map.....	4
Map 1 Geology and Sample Locations.....	in pocket
Map 2 Contoured Zn Soil Geochemistry.....	in pocket
Map 3 Contoured Pb Soil Geochemistry.....	in pocket
Map 4 Unfiltered VLF-EM Data.....	in pocket
Map 5 Fraser-Filtered VLF-EM Data.....	in pocket

LIST OF APPENDICES

Appendix I.....	List of Personnel and Expenditures
Appendix II.....	Analytical Results
<del>Appendix III.....</del>	<del>Program Related Documents</del>

(1)

### SUMMARY

Assessment work for the Shag 1-7 claims was carried out in August, 1990. The program consisted of geochemical sampling and limited geophysical work on a previously cut grid. 1.5 km of blazed line were added to the existing grid. 10.3 line-km of sampling and 4.5 line-km of geophysics were completed on the grid. All streams encountered in the grid area were silt-sampled, and four rock samples were taken. A total of \$11,600.00 was spent over the course of the program.

The goal of the 1990 program was to locate base metal anomalies in the grid area which may be related to underlying sediment-hosted lead zinc deposits such as those seen in the rich Monarch-Kicking Horse deposits located 50 km north in Yoho National Park.

A number of zinc-anomalous zones were located as a result of the geochemical survey. VLF-EM geophysics confirmed an anomalous region outlined by a resistivity survey conducted in 1988.

Silt sampling revealed a number of anomalous drainages within the grid area.

Work performed in 1990 delineated a number of areas which should see follow-up work in future years.

## INTRODUCTION

This report provides an evaluation and discussion of results obtained from assessment work conducted in August, 1990 on the Shag 1-7 claims located in the Golden Mining District, Southeastern BC.

Work was carried out by Toklat Resources Inc. and consisted of a 5-man crew mobilized out of Cranbrook, BC. 25-man days were spent on the property with a total of 586 soil, silt and rock samples collected. Field work was carried out during the period August 9-13, 1990.

The 1990 program focused on geochemical sampling of an 8.8 line-km grid placed in 1988. A further 1.5 line-km of grid was executed and sampled. All streams present in the grid area were silt sampled. 4.5 line-km of VLF-EM surveying was completed in an attempt to confirm a resistivity anomaly located during previous work. All samples were analyzed for lead and zinc content.

A description of regional geology is included in addition to the evaluation of property geology and geochemical results.

**LOCATION, ACCESS, PHYSIOGRAPHY AND TITLE**

The claims are located near 50 38'N, 115 30'W, in the Albert River drainage about 35 km east of Radium (see figure 1, following page). The north end of the claims can be reached by logging roads, about 55 km from Canal Flats or 60 km from Radium. Higher elevations and the southern parts of the claim group are best approached by helicopter, based locally at either Fairmont Hot Springs or at the Invermere Airport.

The claims are located within the Continental Range of the Rocky Mountains at elevations 4000 to 8500 feet. Vegetation consists of spruce, fir and cedar trees with thick underbrush. Numerous small creeks and springs drain the property area, all flowing into Shag Creek, which bisects the property and flows northwestwardly into the Albert River, which in turn flows into the Kootenay River.

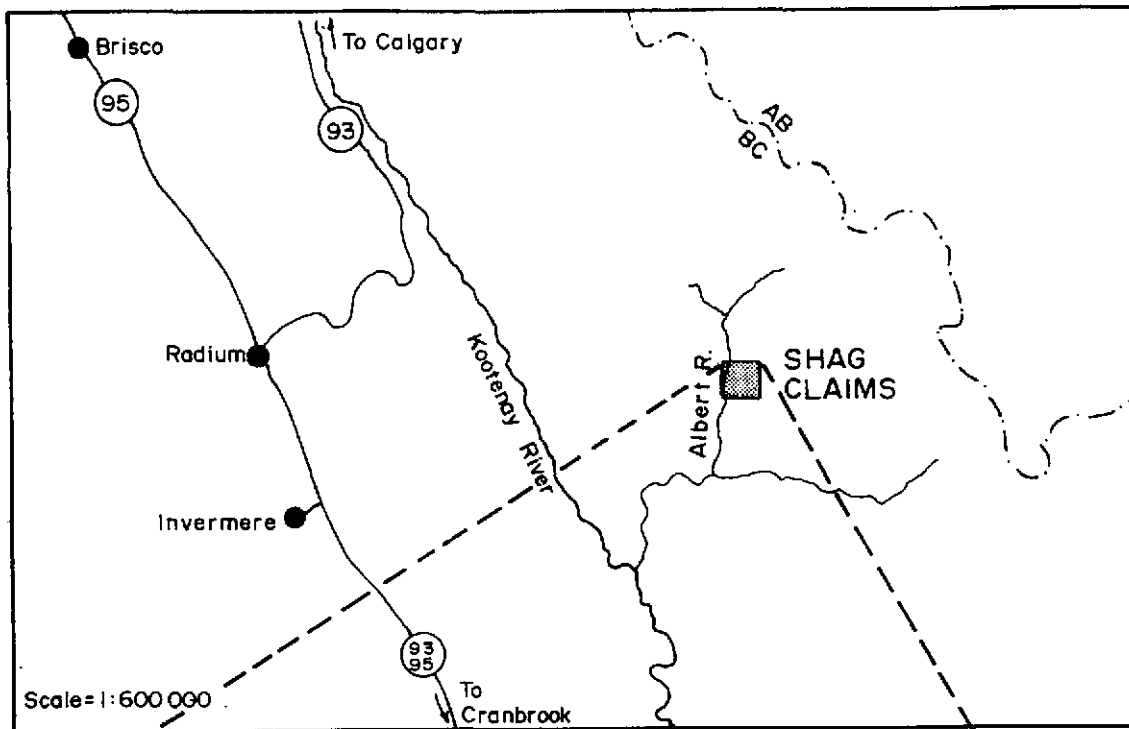
Moderate precipitation may be expected annually, with an accumulated snowfall in the order of 3-5 m over the winter months.

Table 3-1 below, summarizes claim tenure.

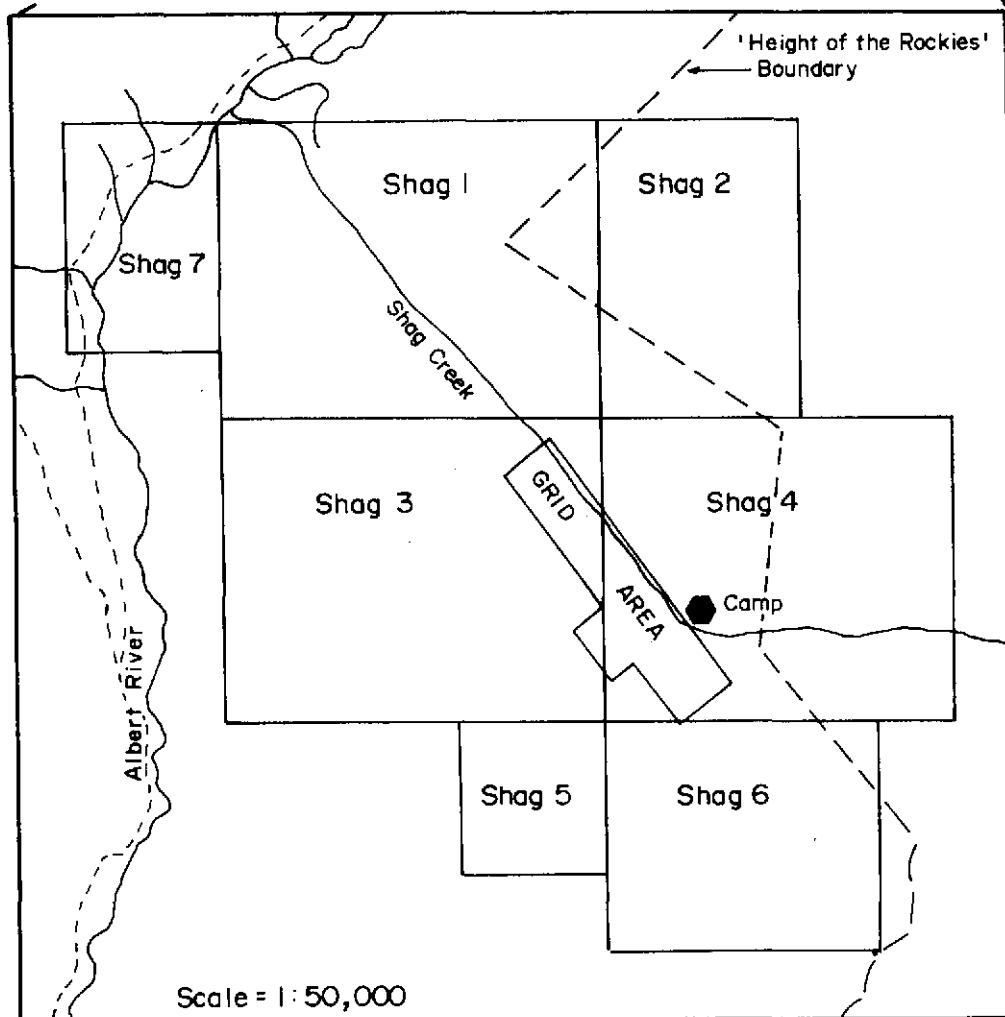
CLAIM STATUS - SHAG 1-7

<u>Claim</u>	<u>Record No.</u>	<u>Units</u>	<u>*Expiry Date</u>
Shag 1	158	20	Aug. 15, 1992
Shag 2	159	12	Aug. 15, 1991
Shag 3	160	12	Aug. 15, 1992
Shag 4	161	20	Aug. 15, 1991
Shag 5	162	4	Aug. 15, 1992
Shag 6	163	8	Aug. 15, 1992
Shag 7	164	<u>6</u>	Aug. 15, 1991
Total:		82	

\* After 1990 Assessment Filing



### CLAIMS LOCATION MAP



## HISTORY AND PREVIOUS WORK

The property was staked in 1977 by Riocanex (Rio Tinto Canadian Exploration Limited) as a result of regional reconnaissance work which located anomalous base metal values and two lead-zinc showings within the Shag Creek drainage.

In 1978, D. Bending geologically mapped, prospected, and soil sampled the claims (Riocanex report no. 547). The Cathedral Formation, host of the mineralization, was further subdivided into nine lithologic units and prospecting was conducted on two favourable mineral horizons. Eight new mineral occurrences were recorded.

A short drill program in the fall of 1978 tested an occurrence of replacement mineralization (the BM Showing). These three holes totalling 159.5 m, yielded only low zinc mineralization (Riocanex report no. 547).

The 1979 summer field program (Riocanex report no. 561) consisted of a ten-day investigation of 1978 soil anomalies, detailed mapping of the C-4 showing, and remapping of sections of the C-4 horizon. Three new showings, "Stripes", "BM Fractures", and "Red Bed"- type float were discovered.

Leech G.B. (1979), Geological Survey of Canada, released an open file map covering the area at a scale of 1:126,720.

Esso Minerals Canada did further mapping and prospecting, subsequently drilling six diamond drill holes into favourable stratigraphy.

Ecstall Mining Corp. later acquired the property and in 1988 constructed an 8.8 line-km cut grid upon which a resistivity (chargeability) geophysical survey was conducted. It was this work which was the basis for the 1990 program.



## REGIONAL GEOLOGY

(Excerpted from Riocanex 1979 Report)

The major formations in the area of interest are the Middle Cambrian Cathedral carbonates, laterally equivalent Chancellor Group shales and limestones, and the Upper Cambrian McKay Group Shales. The showings are hosted by dolostones of the Cathedral Formation within one km of the northwest-southeast trending Chancellor facies front.

The rich Monarch-Kicking Horse deposits are hosted by the Cathedral Formation 50 km north in Yoho National Park, in a similar position with respect to the facies front but lower in the section. They represent a clearly different style of mineralization but demonstrate the availability of metals and potential for concentration in this belt.

## PROPERTY GEOLOGY, STRUCTURE AND MINERALIZATION

(Excerpted from Riocanex 1979 Report)

The property area is underlain by rocks of the McKay Group; consisting of shales exposed at higher elevations, Arctomys Formation; a thin red crinoidal marker bed underlying the McKay Group and the Cathedral Formation; an alternating series of carbonates with no exposed base within the Shag property. The Cathedral Formation may be further subdivided into nine mappable-units based on a combination of depositional and diagenetic features. These divisions are described in detail (following), some of which underlay the grid upon which the 1990 program was conducted (see Map 1, in pocket).

### Cathedral Formation Stratigraphy

"Top Dolostone" (C7). This appears to be equivalent to the Eldon Formation to the north.

"Cliff and Step Limestone" (C6). On the east side of the claims this becomes the "Eastern Transgressive Dolostone" (C9). To the north, the Steven Formation appears to be an equivalent.

"Second Dolostone" (C5). This is considered the top of the Cathedral Formation to the north. The C-4 horizon of mineralization lies at the top of this unit and contains the C-4, Pad, Stripes, Pieces, Rush, Redbed, Christmas, Galena, and Crackle Showings. (See Riocanex 1979 report).

"Dividing Limestone" (C4). This is transgressive on the west side of the property with a "Cyclic Dolostone" (C8) which also transgresses the "BM Host Dolostone" (C3). (See Riocanex 1979 report).

"BM Host Dolostone" (C3). This unit hosts the BM horizon, at its upper contact, which contains the BM, BM fractures, and BM Extension Showings. The Box Showing lies to the north of the claim block in this unit but lower than the contact.

"Thin Limestone" (C2). This unit possesses the C-3 Showing in a small dolomitic envelope.

"Albert River Dolostone" (C1). This is the lower-most exposed unit on the Shag Claims. It is believed that the Monarch-Kicking Horse deposits lie beneath this level.

### Structural Geology

Structural geology on the Shag Claims exhibits three response styles to compression and a large monoclinial flexure along the Cathedral facies front.

The shales are cleaved, isoclinally folded and internally thrust faulted, especially near contact with carbonates. The most prominent deformation is the large monoclinial flexure in the carbonates which runs parallel to the facies front. Rock type and position in the section relative to the McKay Group influence the styles of deformation in the carbonates.

Small S-folds, overturned folds, and small thrusts are present in the upper portion. These indicate an east-west compressive force perpendicular to the facies front.

The influence of structural trends on mineralization is unclear although it seems that stratigraphy plays a more important roll.

#### Mineralization

Reports of mineralization are frequent throughout the history of the property. For detailed accounts, see Riocanex (1977), (1979) reports by Whiting and Bending and Esso Minerals (1982) report by Lenters.

Mineralization discovered during the 1990 program is restricted to hydrozincite staining and minor sphalerite, located at 3+40W/1900N. Oxide staining is present within a large cliff face over 15-25 square metre area at the base of which sphalerite-mineralized float was located. Sphalerite here occurs as 1-10mm sized euhedral crystals displaying a bright glassy red colouration. It should be noted that a very pronounced, widespread zinc geochemical anomaly area is located on and around this showing.

### 1990 PROGRAM

1990 program focused entirely on the previously established grid, hoping to support evidence of mineralization discovered during a geophysical survey conducted in 1988. A further 1.5 km of grid line was blazed and flagged in order to more effectively cover a well pronounced geophysical anomaly. These additional lines (5+00 W, 6+00 W and 7+00 W) ran from 5+00 N to 10+00 N and were also soil sampled and covered by a VLF-EM survey.

A total of 551 soil, 31 stream sediments, and 4 rock samples were collected during the course of work.

Soil sample spacing was 25m, with the "B" horizon material collected where possible. Typical depths to B horizon material were 15-40 cm. Values were plotted and contoured on grid location maps (see Maps 2,3, in pocket). Silt samples were collected where grid lines crossed stream gullies. A 1-2 pound sample of fine silt and gravel material was collected at each site.

A total of 586 samples were collected and shipped to Eco-Tech Labs at Kamloops, BC. Samples were then dried, sieved and analyzed using aqua-regia digestion. Results are presented in trace (ppm) values. Rock samples were crushed and analyzed using the same methods. The single high grade sample was further fire assayed. (See analytical results, appendix II).

A VLF-EM survey was conducted over significant resistivity anomalies resultant of the 1988 program. Lines 0+00 to 7+00W were covered from 2+00N to 10+00N. The instrument used was a Geonics EM-16; operator: Vincent Parsons, and transmitter: Annapolis, MD.

In-Phase and Quadrative data from the survey was plotted (Map 4, in pocket), and Fraser-Filtered data plotted and contoured (Map 5, in pocket).

## RESULTS

Results of the 1990 program were encouraging and warrant follow up work.

A strongly pronounced geochemical anomaly 150m x 180m was located on Lines 2+00W and 3+00W from 18+00N to 20+00N (figure 7-1). Extremely anomalous values were returned from this area, most being in the 2000-4000 ppm zinc range. Prospecting revealed considerable hydrozincite staining and some sphalerite mineralization within the anomalous area. One float sample, S-90-3 returned .54% Zn, and contained visible sphalerite mineralization. A geochemical survey conducted by Riocanex in 1978 also returned anomalous zinc values in the same local area, and a single hole (79-6) was drilled, apparently with unfavorable results. Unfortunately, the 1990 VLF-EM survey did not extend this far northward during the summer program.

A number of less well defined zinc-anomalous areas were located as a result of the survey, the most pronounced of these being a 40m x 200m high in the order of 1000 ppm Zn located across lines 1+00W, 2+00W and 3+00W at coordinate 2+00N.

Stream sediment sampling revealed anomalous values in creeks at intervals 3+00W/0+20N, 3+00W/3+60N, 3+00W/10+00N, 3+00W/11+30N, 4+00W/3+00N and 7+00W/7+60N.

The VLF-EM survey confirmed the presence of a geophysically-responsive feature across lines 2+00 to 7+00W at approximately 8+00N. Soil sample results did not show any significant anomalous values over the anomalous area however, leaving its origin a mystery.

### CONCLUSIONS AND RECOMMENDATIONS

Soil geochemical sampling and VLF-EM geophysical surveying conducted on the Shag Property over the 1990 season have revealed significant base metal and geophysical anomalies.

A very well pronounced, widespread Zn-anomalous areas was delineated within the grid area, centered at 2+50W/19+00N. Prospecting confirmed the presence of zinc mineralization, with the discovery of both zinc-oxide and sulphide minerals within the soil anomalous area. VLF-EM coverage did not include this area. Review of geophysical information gathered in 1988 reveals that no significant resistivity/chargeability responses were noted in this area, suggesting a chiefly non-conductive body may be the source of the soil anomaly.

Within the area which received VLF-EM coverage, a well defined, relatively continuous conductor was located. This linear expression confirms the presence of an anomaly reported during a resistivity/chargeability survey completed in 1988. Base metal values returned from soils, however, are low in this area, and do not reflect any significant concentration.

Silt sampling indicated a number of anomalous creeks, but the distribution is spotty and widespread, with no definite concentration in areas to collaborate either soil geochemical or geophysical anomalies.

Clearly more work is warranted within the grid area, most particularly in the northern portion where the strong soil geochemical anomaly exists. Detailed geological mapping and intensified prospecting should be completed in this area, in conjunction with further geophysics. The lack of any significant response through resistivity surveying may suggest that a non-electromagnetic survey such as gravitometric be more suitable. Other soil and geophysical anomalies should be followed up by similar methods.

REFERENCES

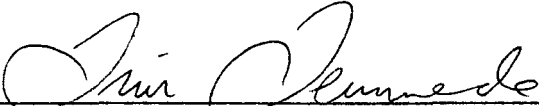
- Graf, C. - 1977  
Graf Lead Zinc Reconnaissance,  
Southern Rocky Mountains; Riocanex Report #526
- Bending, D. - March 1979  
Shag Claims - Lead Zinc; Riocanex Report #547
- Bending, D. - August 1979  
Shag Claims; Riocanex Report #561
- Whiting, B. - November 1979  
Work Performed on the Shag Claims Riocanex Report
- Leech, G.B. - 1979  
GSC Open File Map, Scale 1:126,720
- Lenters, M. - 1982  
Geological Report on the Shag 1-8 Claims; Esso Minerals,  
Canada
- Hendrickson, G.A. - 1988  
Geophysical Report - Shag Creek Project,  
Albert River Area, Northeast Kootenay Region, BC

CERTIFICATE OF QUALIFICATION

I Timothy J. Termuende, of 1701 Mt. Nelson Crescent, Cranbrook, British Columbia hereby certify that:

- 1) I am a consulting geologist with Toklat Resources Inc. of Cranbrook, British Columbia
- 2) I am a graduate of the University of British Columbia of Vancouver, BC, having received a B.Sc. in Geological Sciences in 1987
- 3) I have practised my profession continuously since 1987
- 4) I have no interest in Ecstall Mining Corp. or in the Shag 1-7 Claims, nor do I expect to receive any.
- 5) This report is based on data collected during fieldwork conducted in August, 1990

Dated at Cranbrook, this 8th day of November, 1990.

  
\_\_\_\_\_  
T.J. Termuende, B.Sc.(Geol)



APPENDIX 1

List of Personnel and  
Statement of Expenditures

The following expenses were incurred on the Shag 1-7 Claims as defined in this report for the purposes of mineral exploration between the dates of August 9th - 14th, 1990.

Personnel:

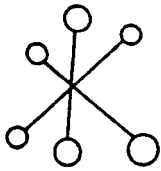
T. Termuende - B.Sc.(Geol)	
5.5 days @ \$275/day	\$1,512.00
V. Parsons - Geophysical Tech.	
5.0 days @ \$200/day	1,000.00
M. Betker - Soil Sampler	
5.0 days @ \$200/day	1,000.00
J. Betker - Soil Sampler	
5.0 days @ \$200/day	1,000.00
R. Belisle - Soil Sampler	
5.0 days @ \$200/day	1,000.00

Disbursements:

Helicopter and Fuel (3.1 hours)	2,180.54
Vehicle Rental	500.00
Hand-held Radios	200.00
Chainsaw	50.00
Geophysical Equipment	240.00
Grocery	727.18
Fuel	55.89
Field Supplies	395.81
Shipping	60.50
Handling Charges	54.11
Report Preparation	<u>\$1,669.28</u>
	\$11,645.31

APPENDIX II

- 1) Certificates of Analyses
- 2) Analytical Invoices



**ECO-TECH LABORATORIES LTD.**

ASSAYING - ENVIRONMENTAL TESTING  
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

AUGUST 23, 1990

**CERTIFICATE OF ANALYSIS ETK 90-458**  
=====

ECSTALL MINING CORP.  
307-475 HOWE ST.  
VANCOUVER, B.C.  
V6C 2B3

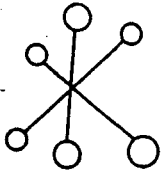
SAMPLE IDENTIFICATION: 4 ROCK samples received AUGUST 15, 1990  
-----  
PROJECT: SHAG  
SHIPMENT NO. 01

ET#	DESCRIPTION	PB (ppm)	ZN (ppm)
458 - 1	S- 90-1	6	17
458 - 2	2- 90-2	13	127
458 - 3	2- 90-3	10	> 1000
458 - 4	2- 90-4	11	203

*Jutta Jealouse*  
-----  
ECO-TECH LABORATORIES LTD.  
JUTTA JEALOUSE  
B.C. Certified Assayer

CC: TOKLAT RESOURCES INC.

SC90/ECSTALL



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AUGUST 23, 1990

CERTIFICATE OF ANALYSIS ETK 90-458  
=====

ECSTALL MINING CORP.  
307-475 HOWE ST.  
VANCOUVER, B.C.  
V6C 2B3

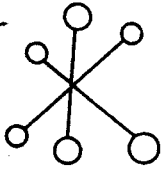
A S S A Y

SAMPLE IDENTIFICATION: 4 ROCK samples received AUGUST 15, 1990  
-----  
PROJECT: SHAG  
SHIPMENT NO. 01

ET#	DESCRIPTION	ZN (%)
458 - 3	2- 90-3	.54

*Jutta Jealouse*  
ECO-TECH LABORATORIES LTD.  
JUTTA JEALOUSE  
B.C. Certified Assayer

**COPY**



# ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

AUGUST 22, 1990

## CERTIFICATE OF ANALYSIS ET 90-457

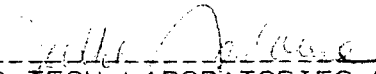
ECSTALL MINING CORP.  
307-475 HOWE ST.  
VANCOUVER, B.C.  
V6C 2B3

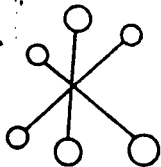
SAMPLE IDENTIFICATION: 31 ROCK samples received AUGUST 15, 1990  
PROJECT: SHAG  
SHIPMENT NO. 01

ET#	DESCRIPTION	PB (ppm)	ZN (ppm)
457	- 1 S-S- 001 *	38	80
457	- 2 S-S- 002	35	108
457	- 3 S-S- 003	33	79
457	- 4 S-S- 004	32	77
457	- 5 S-S- 005	36	1046
457	- 6 S-S- 006 *	32	123
457	- 7 S-S- 007	31	1030
457	- 8 S-S- 008	40	350
457	- 9 S-S- 009	35	301
457	-10 S-S- 010	33	856
457	-11 S-S- 011	35	371
457	-12 S-S- 012	40	120
457	-13 S-S- 100 *	46	1010
457	-14 S-S- 101	43	780
457	-15 S-S- 102	41	980
457	-16 S-S- 103	29	675
457	-17 S-S- 104	76	1785
457	-18 S-S- 105	26	92
457	-19 S-S- 106	55	2337
457	-20 S-S- 107	41	151
457	-21 S-S- 108	47	117
457	-22 S-S- 109	22	156
457	-23 S-S- 201	38	865
457	-24 S-S- 202	26	510
457	-25 S-S- 203	54	512
457	-26 S-S- 204	28	111
457	-27 S-S- 205	27	135
457	-28 S-S- 206	48	101
457	-29 S-S- 207	43	169
457	-30 S-S- 301	52	104
457	-31 S-S- 304	29	1130

NOTE:\* = MINUS 20 MESH

FAX: TOKLAT  
1-426-6899  
CC. TOKLAT RESOURCES INC.  
1701 MOUNT MELBOM CREEK

  
ECO-TECH LABORATORIES LTD.  
JUTTA JEALOUSE  
B.C. Certified Assayer



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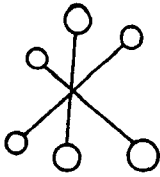
SEPTEMBER 4, 1990

CERTIFICATE OF ANALYSIS ETK 90-456  
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ECSTALL MINING CORP.  
307 475 - HOWE STREET.  
VANCOUVER, B.C.  
V6C 2B3

SAMPLE IDENTIFICATION: 551 SOIL samples received AUGUST 15, 1990  
-----

ET#	Description			PB (ppm)	ZN (ppm)
456 - 1	BLOW	0 +	00	10	53
456 - 2	LO	0 +	20 N	12	56
456 - 3	LO	0 +	40 N	6	56
456 - 4	LO	0 +	60 N	11	62
456 - 5	LO	0 +	80 N	17	98
456 - 6	LO	1 +	00	15	105
456 - 7	LO	1 +	20	18	84
456 - 8	LO	1 +	40	30	333
456 - 9	LO	1 +	60	21	181
456 - 10	LO	1 +	80	33	549
456 - 11	LO	2 +	00	7	44
456 - 12	LO	2 +	20	6	45
456 - 13	LO	2 +	40	12	52
456 - 14	LO	2 +	60	20	149
456 - 15	LO	2 +	80	11	106
456 - 16	LO	3 +	00	26	152
456 - 17	LO	3 +	20	28	73
456 - 18	LO	3 +	40	14	101
456 - 19	LO	3 +	60	20	89
456 - 20	LO	3 +	80	4	42
456 - 21	LO	4 +	00	16	465
456 - 22	L-0	5 +	20	15	100
456 - 23	L-0	7 +	20	14	54
456 - 24	L-0	7 +	60	10	60
456 - 25	L-0	8 +	80	23	146
456 - 26	L-0	9 +	00 N	21	142
456 - 27	L-0	9 +	20 N	16	99
456 - 28	L-0	9 +	40 N	18	132
456 - 29	L-0	9 +	60 N	17	185
456 - 30	L-0	10 +	40 N	19	58



# ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING

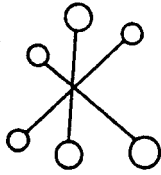
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

ECSTALL MINING CORP.

SEPTEMBER 4, 1990

ET#	Description	PB (ppm)	ZN (ppm)
456 - 31	L-0 10 + 60 N	26	98
456 - 32	L-0 11 + 40 N	25	59
456 - 33	L-0 11 + 60 N	21	82
456 - 34	L-0 12 + 00 N	15	54
456 - 35	L-0 12 + 20 N	14	55
456 - 36	L-0 12 + 40 N	15	59
456 - 37	L-0 12 + 60 N	18	70
456 - 38	L-0 12 + 80 N	16	58
456 - 39	L-0 13 + 00 N	15	36
456 - 40	L-0 13 + 20 N	24	65
456 - 41	L-0 13 + 60 N	23	128
456 - 42	L-0 13 + 80 N	24	120
456 - 43	L-0 14 + 00 N	23	121
456 - 44	L-0 14 + 20 N	21	125
456 - 45	L-0 14 + 40 N	42	722
456 - 46	L-0 14 + 60 N	26	142
456 - 47	L-0 14 + 80 N	12	46
456 - 48	L-0 15 + 20 N	27	66
456 - 49	L-0 15 + 40 N	30	67
456 - 50	L-0 15 + 60 N	35	55
456 - 51	L-0 15 + 80 N	39	146
456 - 52	L-0 16 + 20 N	33	76
456 - 53	L-0 16 + 40 N	21	83
456 - 54	L-0 16 + 60 N	66	366
456 - 55	L-0 16 + 80 N	49	465
456 - 56	L-0 17 + 00 N	44	831
456 - 57	L-0 17 + 40 N	24	181
456 - 58	L-0 17 + 60 N	34	709
456 - 59	L-0 17 + 80 N	30	514
456 - 60	L-0 18 + 20 N	25	433
456 - 61	L-0 18 + 40 N	42	657
456 - 62	L-0 18 + 60 N	25	137
456 - 63	L-0 19 + 20 N	33	524
456 - 64	L-0 19 + 40 N	15	27
456 - 65	L-0 19 + 60 N	12	27
456 - 66	L-0 20 + 00 N	13	29
456 - 67	L-0 20 + 20 N	12	30
456 - 68	L-0 20 + 40 N	11	26
456 - 69	L-0 20 + 60 N	13	24
456 - 70	L-0 20 + 80 N	14	31
456 - 71	BL 0 + 20 E	20	67
456 - 72	BL 1 + 20 W	18	62
456 - 73	BL 1 + 40 W	24	102
456 - 74	BL 1 + 60 W	23	79
456 - 75	BL 1 + 80 W	18	64





# ECO-TECH LABORATORIES LTD.

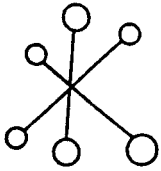
ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

ECSTALL MINING CORP.

SEPTEMBER 4, 1990

ET#	Description	PB (ppm)	ZN (ppm)
456 - 76	L-1W 0 + 00 N	25	92
456 - 77	L-1W 0 + 60 N	14	43
456 - 78	L-1W 0 + 80 N	20	76
456 - 79	L-1W 1 + 00 N	16	88
456 - 80	L-1W 1 + 20 N	19	152
456 - 81	L-1W 1 + 40 N	19	109
456 - 82	L-1W 1 + 60 N	17	84
456 - 83	L-1W 1 + 80 N	12	27
456 - 84	L-1W 2 + 00 N	26	43
456 - 85	L-1W 2 + 20 N	22	550
456 - 86	L-1W 2 + 40 N	21	349
456 - 87	L-1W 2 + 60 N	15	182
456 - 88	L-1W 2 + 80 N	16	1285
456 - 89	L-1W 3 + 00 N	19	1228
456 - 90	L-1W 3 + 20 N	9	137
456 - 91	L-1W 3 + 40 N	12	55
456 - 92	L-1W 3 + 60 N	73	191
456 - 93	L-1W 3 + 80 N	18	756
456 - 94	L-1W 4 + 00 N	17	1280
456 - 95	L-1W 4 + 20 N	17	1080
456 - 96	L-1W 4 + 40 N	20	803
456 - 97	L-1W 4 + 60 N	15	679
456 - 98	L-1W 4 + 80 N	17	348
456 - 99	L-1W 5 + 00 N	16	413
456 - 100	L-1W 5 + 20 N	20	461
456 - 101	L-1W 5 + 40 N	38	642
456 - 102	L-1W 5 + 60 N	12	64
456 - 103	L-1W 5 + 80 N	45	765
456 - 104	L-1W 6 + 20 N	7	72
456 - 105	L-1W 6 + 40 N	25	144
456 - 106	L-1W 6 + 60 N	21	103
456 - 107	L-1W 6 + 80 N	20	106
456 - 108	L-1W 7 + 00 N	9	35
456 - 109	L-1W 7 + 20 N	17	32
456 - 110	L-1W 7 + 40 N	15	46
456 - 111	L-1W 7 + 60 N	17	71
456 - 112	L-1W 8 + 00 N	21	63
456 - 113	L-1W 8 + 20 N	23	56
456 - 114	L-1W 8 + 60 N	45	112
456 - 115	L-1W 8 + 80 N	33	104
456 - 116	L-1W 9 + 00 N	34	94
456 - 117	L-1W 9 + 20 N	25	81
456 - 118	L-1W 10 + 00 N	23	84
456 - 119	L-1W 10 + 40 N	35	233
456 - 120	L-1W 10 + 60 N	21	111



# ECO-TECH LABORATORIES LTD.

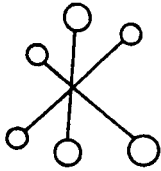
ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

ECSTALL MINING CORP.

SEPTEMBER 4, 1990

ET#	Description	PB (ppm)	ZN (ppm)
456 - 121	L-1W 11 + 20 N	35	205
456 - 122	L-1W 11 + 40 N	25	75
456 - 123	L-1W 11 + 60 N	54	148
456 - 124	L-1W 12 + 20 N	36	135
456 - 125	L-1W 13 + 40 N	35	54
456 - 126	L-1W 13 + 60 N	20	77
456 - 127	L-1W 13 + 80 N	9	50
456 - 128	L-1W 14 + 00 N	13	58
456 - 129	L-1W 14 + 20 N	20	103
456 - 130	L-1W 14 + 40 N	10	65
456 - 131	L-1W 14 + 60 N	16	77
456 - 132	L-1W 15 + 00 N	12	73
456 - 133	L-1W 15 + 20 N	48	113
456 - 134	L-1W 15 + 40 N	21	87
456 - 135	L-1W 15 + 60 N	16	57
456 - 136	L-1W 15 + 80 N	9	42
456 - 137	L-1W 16 + 20 N	32	86
456 - 138	L-1W 16 + 80 N	8	56
456 - 139	L-1W 17 + 20 N	18	576
456 - 140	L-1W 17 + 40 N	25	174
456 - 141	L-1W 18 + 00 N	27	227
456 - 142	L-1W 18 + 20 N	22	618
456 - 143	L-1W 18 + 40 N	29	371
456 - 144	L-1W 18 + 60 N	24	147
456 - 145	L-1W 18 + 80 N	27	565
456 - 146	L-1W 19 + 20 N	24	150
456 - 147	L-1W 19 + 40 N	15	102
456 - 148	L-1W 19 + 60 N	21	166
456 - 149	L-1W 20 + 00 N	28	129
456 - 150	L-1W 20 + 20 N	25	271
456 - 151	L-1W 20 + 80 N	26	172
456 - 152	L-1W 21 + 00 N	28	186
456 - 153	L-1W 21 + 20 N	41	222
456 - 154	L-1W 21 + 60 N	28	156
456 - 155	L+2W 0 + 00	23	107
456 - 156	L+2W 0 + 20 N	24	95
456 - 157	L+2W 0 + 40 N	19	110
456 - 158	L+2W 0 + 60 N	24	82
456 - 159	L+2W 0 + 80 N	14	89
456 - 160	L+2W 1 + 00 N	17	207
456 - 161	L+2W 1 + 20 N	12	148
456 - 162	L+2W 1 + 40 N	19	189
456 - 163	L+2W 1 + 60 N	13	100
456 - 164	L+2W 1 + 80 N	18	198
456 - 165	L+2W 2 + 00 N	19	93



# ECO-TECH LABORATORIES LTD.

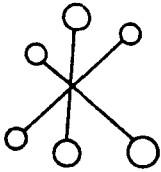
ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

ECSTALL MINING CORP.

SEPTEMBER 4, 1990

ET#	Description	PB (ppm)	ZN (ppm)
456 - 166	L+2W 2 + 20 N	21	1019
456 - 167	L+2W 2 + 40 N	29	104
456 - 168	L+2W 2 + 60 N	27	1032
456 - 169	L+2W 2 + 80 N	24	113
456 - 170	L+2W 3 + 00 N	14	629
456 - 171	L+2W 3 + 20 N	22	158
456 - 172	L+2W 3 + 40 N	7	74
456 - 173	L+2W 3 + 60 N	21	94
456 - 174	L+2W 3 + 80 N	19	658
456 - 175	L+2W 4 + 00 N	21	610
456 - 176	L+2W 4 + 20 N	13	60
456 - 177	L+2W 4 + 40 N	17	74
456 - 178	L+2W 4 + 60 N	18	649
456 - 179	L+2W 4 + 80 N	19	192
456 - 180	L-2W 5 + 00	17	164
456 - 181	L-2W 5 + 20	15	174
456 - 182	L-2W 5 + 40	17	170
456 - 183 **	L-2W 5 + 60	14	230
456 - 184	L-2W 5 + 80	12	670
456 - 185 **	L-2W 6 + 00	5	95
456 - 186	L-2W 6 + 20	11	71
456 - 187	L-2W 6 + 40	8	74
456 - 188	L-2W 6 + 60	16	78
456 - 189	L-2W 6 + 80	12	72
456 - 190	L-2W 7 + 00	14	110
456 - 191	L-2W 7 + 20	18	117
456 - 192	L-2W 7 + 40	28	162
456 - 193	L-2W 7 + 60	69	182
456 - 194	L-2W 7 + 80	74	168
456 - 195	L-2W 8 + 00 N	73	184
456 - 196	L-2W 8 + 20 N	46	125
456 - 197	L-2W 8 + 40 N	69	85
456 - 198	L-2W 8 + 60 N	33	78
456 - 199	L-2W 8 + 80 N	14	192
456 - 200	L-2W 9 + 00 N	18	214
456 - 201	L-2W 9 + 20 N	22	153
456 - 202	L-2W 9 + 40 N	18	153
456 - 203	L-2W 9 + 60 N	22	163
456 - 204	L-2W 9 + 80 N	19	135
456 - 205	L-2W 10 + 00 N	26	139
456 - 206	L-2W 10 + 20 N	23	142
456 - 207 *	L-2W 10 + 40 N	13	454
456 - 208	L-2W 10 + 60 N	22	473
456 - 209	L-2W 10 + 80 N	27	427
456 - 210	L-2W 11 + 00 N	18	110



# ECO-TECH LABORATORIES LTD.

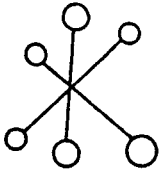
ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

ECSTALL MINING CORP.

SEPTEMBER 4, 1990

ET#	Description	PB (ppm)	ZN (ppm)
456 - 211	L-2W 11 + 20 N	20	882
456 - 212	L-2W 11 + 40 N	21	847
456 - 213	L-2W 11 + 60 N	17	832
456 - 214	L-2W 11 + 80 N	12	852
456 - 215 **	L-2W 12 + 00 N	15	839
456 - 216	L-2W 12 + 20 N	13	859
456 - 217	L-2W 12 + 40 N	9	628
456 - 218	L-2W 12 + 60 N	15	894
456 - 219	L-2W 12 + 80 N	12	754
456 - 220 **	L-2W 13 + 00 N	21	785
456 - 221	L-2W 13 + 20 N	18	667
456 - 222	L-2W 13 + 60 N	13	155
456 - 223	L-2W 13 + 80 N	16	786
456 - 224	L-2W 14 + 00 N	14	106
456 - 225	L-2W 14 + 20 N	17	83
456 - 226	L-2W 14 + 40 N	8	103
456 - 227	L-2W 14 + 60 N	15	109
456 - 228 *	L-2W 14 + 80 N	27	133
456 - 229	L-2W 15 + 00 N	32	108
456 - 230	L-2W 15 + 20 N	19	97
456 - 231	L-2W 15 + 40 N	19	93
456 - 232	L-2W 15 + 80 N	28	108
456 - 233 **	L-2W 16 + 00 N	17	134
456 - 234	L-2W 16 + 20 N	30	498
456 - 235 **	L-2W 16 + 40 N	8	159
456 - 236 **	L-2W 16 + 60 N	20	307
456 - 237	L-2W 16 + 80 N	16	245
456 - 238	L-2W 17 + 00 N	34	358
456 - 239	L-2W 17 + 40 N	25	189
456 - 240	L-2W 17 + 80 N	37	2527
456 - 241	L-2W 18 + 00 N	36	290
456 - 242	L-2W 18 + 20 N	37	2683
456 - 243	L-2W 18 + 40 N	33	2238
456 - 244	L-2W 18 + 60 N	23	2478
456 - 245	L-2W 18 + 80 N	18	2915
456 - 246	L-2W 19 + 00 N	19	887
456 - 247	L-2W 19 + 20 N	22	4351
456 - 248	L-2W 19 + 40 N	18	4993
456 - 249	L-2W 19 + 60 N	18	4072
456 - 250	L-2W 19 + 80 N	29	4392
456 - 251	L-2W 20 + 00 N	16	963
456 - 252	L-2W 20 + 20 N	33	668
456 - 253	L-2W 20 + 40 N	31	670
456 - 254	L-2W 20 + 60 N	24	511
456 - 255	L-2W 20 + 80 N	37	889



# ECO-TECH LABORATORIES LTD.

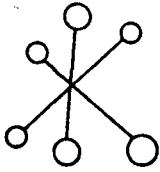
ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

ECSTALL MINING CORP.

SEPTEMBER 4, 1990

ET#	Description				PB (ppm)	ZN (ppm)
456 - 256	L-2W	21	+	00 N	31	780
456 - 257	L-2W	21	+	20 N	27	125
456 - 258	L-2W	21	+	40	23	149
456 - 259	BASE LINE	2	+	80	22	110
456 - 260	L-3	0	+	00 N	29	89
456 - 261	L+3	0	+	20 N	20	71
456 - 262	L+3	0	+	40 N	20	94
456 - 263	L+3	0	+	60 N	21	26
456 - 264	L+3	0	+	80 N	26	310
456 - 265	L+3	1	+	00 N	18	188
456 - 266 **	L+3	1	+	20 N	26	236
456 - 267	L+3	1	+	40 N	15	670
456 - 268	L+3	1	+	60 N	15	133
456 - 269	L+3	1	+	80 N	12	217
456 - 270	L+3	2	+	20 N	13	161
456 - 271	L+3	2	+	60 N	25	1090
456 - 272	L+3	2	+	80 N	22	980
456 - 273	L+3	3	+	00 N	11	87
456 - 274	L+3	3	+	20 N	11	62
456 - 275	L+3	3	+	40 N	11	76
456 - 276	L-3	3	+	60 N	28	99
456 - 277	L-3	3	+	80 N	25	107
456 - 278	L-3	4	+	00 N	16	222
456 - 279	L-3	4	+	20 N	15	98
456 - 280	L-3	4	+	60 N	10	81
456 - 281	L-3	4	+	80 N	16	73
456 - 282	L-3	5	+	00 N	13	71
456 - 283	L-3	5	+	20 N	16	85
456 - 284	L-3	5	+	40 N	11	207
456 - 285	L-3	5	+	60 N	17	108
456 - 286	L-3	5	+	80 N	42	173
456 - 287	L-3	6	+	00 N	47	229
456 - 288	L-3	6	+	20 N	17	100
456 - 289	L-3	6	+	40 N	14	45
456 - 290	L-3	6	+	60 N	43	117
456 - 291	L-3	6	+	80 N	18	90
456 - 292	L-3	7	+	00 N	37	158
456 - 293	L-3	7	+	20 N	32	142
456 - 294	L-3	7	+	40 N	26	117
456 - 295	L-3	7	+	60 N	32	158
456 - 296	L-3	7	+	80 N	32	77
456 - 297	L-3	8	+	00 N	36	202
456 - 298	L-3	8	+	20 N	27	100
456 - 299	L-3	8	+	40 N	23	73
456 - 300	L-3	8	+	60 N	17	49



# ECO-TECH LABORATORIES LTD.

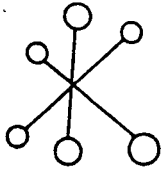
ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

ECSTALL MINING CORP.

SEPTEMBER 4, 1990

ET#	Description	PB (ppm)	ZN (ppm)
456 - 301	L-3 8 + 80 N	33	75
456 - 302	L-3 9 + 00 N	17	63
456 - 303	L-3 9 + 80 N	21	142
456 - 304	L-3 10 + 20 N	29	143
456 - 305	L-3 10 + 60 N	32	115
456 - 306	L-3 10 + 80 N	48	174
456 - 307	L-3 11 + 00 N	46	80
456 - 308	L-3 11 + 20 N	31	219
456 - 309	L-3 11 + 60	25	65
456 - 310	L-3 11 + 80	34	152
456 - 311	L-3 12 + 00 N	26	105
456 - 312	L-3 12 + 20 N	35	106
456 - 313	L-3 12 + 40 N	29	1075
456 - 314	L-3 12 + 60 N	42	117
456 - 315 **	L-3 12 + 80 N	41	998
456 - 316	L-3 13 + 00 N	38	88
456 - 317	L-3 13 + 20 N	34	90
456 - 318	L-3 13 + 40 N	27	98
456 - 319	L-3 13 + 60 N	36	217
456 - 320	L-3 140 + 40 N	35	101
456 - 321	L-3 140 + 60 N	28	151
456 - 322	L-3 140 + 80 N	28	597
456 - 323	L-3 15 + 00 N	22	114
456 - 324	L-3 15 + 20 N	25	159
456 - 325	L-3 15 + 40 N	35	202
456 - 326	L-3 15 + 8 N	39	129
456 - 327	L-3 15 + 80 N	31	173
456 - 328	L-3 16 + 20 N	37	190
456 - 329	L-3 16 + 40 N	28	91
456 - 330	L-3 16 + 80 N	32	104
456 - 331	L-3 17 + 00 N	35	113
456 - 332	L-3 17 + 20 N	29	576
456 - 333	L-3 17 + 40 N	27	630
456 - 334	L-3 18 + 00 N	38	1250
456 - 335	L3W 18 + 40 N	36	950
456 - 336	L3W 18 + 60 N	56	1862
456 - 337	L3W 19 + 20 N	35	3556
456 - 338	L3W 19 + 40 N	39	3280
456 - 339	L3W 19 + 60 N	48	920
456 - 340	L3W 20 + 20 N	35	1320
456 - 341	L3W 20 + 60 N	28	408
456 - 342	L3W 20 + 80 N	35	986
456 - 343	L3W 21 + 00 N	21	950
456 - 344	L3W 21 + 20 N	21	391
456 - 345	L3W 21 + 40 N	11	669



# ECO-TECH LABORATORIES LTD.

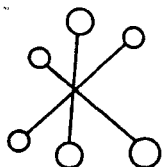
ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

ECSTALL MINING CORP.

SEPTEMBER 4, 1990

ET#	Description			PB (ppm)	ZN (ppm)
456 - 346	L3W	21 +	60 N	18	183
456 - 347	3+50W	19 +	00 N	21	175
456 - 348	BL	3 +	40 W	23	86
456 - 349	BL	3 +	60 W	20	38
456 - 350	BL	3 +	80 W	16	43
456 - 351	L-4W	0 +	00 N	18	126
456 - 352	L-4W	0 +	20 N	21	121
456 - 353	L-4W	0 +	40 N	17	98
456 - 354	L-4W	0 +	60 N	24	131
456 - 355	L-4W	0 +	80 N	23	102
456 - 356	L-4W	1 +	00 N	15	115
456 - 357	L-4W	1 +	20 N	26	76
456 - 358	L-4W	1 +	40 N	21	83
456 - 359	L-4W	1 +	60 N	15	48
456 - 360	L-4W	1 +	80 N	7	54
456 - 361	L-4W	2 +	00 N	13	111
456 - 362	L-4W	2 +	20 N	34	62
456 - 363	L-4W	2 +	40 N	7	59
456 - 364	L-4W	2 +	60 N	12	74
456 - 365	L-4W	2 +	80 N	17	88
456 - 366	L-4W	3 +	00 N	17	141
456 - 367	L-4W	3 +	40 N	15	73
456 - 368	L-4W	3 +	80 N	25	121
456 - 369	L-4W	4 +	00 N	23	110
456 - 370	L-4W	4 +	20 N	12	138
456 - 371	L-4W	4 +	40 N	28	178
456 - 372	L-4W	4 +	60 N	14	92
456 - 373	L-4W	4 +	80 N	26	234
456 - 374	L-4W	5 +	00 N	36	185
456 - 375	L-4W	5 +	20 N	26	152
456 - 376	L-4W	5 +	40 N	14	56
456 - 377	L-4W	5 +	60 N	25	80
456 - 378	L-4W	5 +	80 N	24	126
456 - 379	L-4W	6 +	00 N	5	37
456 - 380	L-4W	6 +	20 N	26	76
456 - 381	L-4W	6 +	40 N	26	52
456 - 382	L-4W	6 +	60 N	17	40
456 - 383	L-4W	6 +	80 N	28	37
456 - 384	L-4W	7 +	00 N	27	34
456 - 385	L-4W	7 +	20 N	41	73
456 - 386	L-4W	7 +	60 N	42	68
456 - 387	L-4W	7 +	80 N	73	123
456 - 388	L-4W	8 +	00 N	54	88
456 - 389	L-4W	8 +	20 N	43	62
456 - 390	L-4W	8 +	40 N	48	57



# ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING

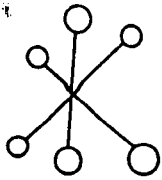
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

ECSTALL MINING CORP.

SEPTEMBER 4, 1990

ET#	Description	PB (ppm)	ZN (ppm)
456 - 391	L-4W 8 + 60 N	43	52
456 - 392	L-4W 9 + 00 N	48	46
456 - 393	L-4W 9 + 40 N	112	113
456 - 394	L-4W 10 + 20 N	42	146
456 - 395	L-4W 10 + 40 N	37	77
456 - 396	L-4W 10 + 60 N	36	81
456 - 397	L-4W 10 + 80 N	40	34
456 - 398	L-4W 11 + 00 N	43	71
456 - 399	L-4W 11 + 20 N	38	74
456 - 400	L-4W 11 + 40 N	36	60
456 - 401	L-4W 11 + 60 N	41	113
456 - 402	L-4W 12 + 00 N	25	77
456 - 403	L-4W 12 + 40 N	33	73
456 - 404	L-4W 12 + 60 N	32	48
456 - 405	L-4W 12 + 80 N	25	45
456 - 406	L-4W 13 + 00 N	43	97
456 - 407	L-4W 13 + 20 N	35	274
456 - 408	L-4W 13 + 60 N	28	45
456 - 409	L-4W 13 + 80 N	42	57
456 - 410	L-4W 14 + 00 N	35	89
456 - 411	L-4W 14 + 40 N	37	79
456 - 412	L-4W 14 + 60 N	24	47
456 - 413	L-4W 14 + 80 N	27	58
456 - 414	L-4W 15 + 00 N	42	121
456 - 415	L-4W 15 + 20 N	32	97
456 - 416	L-4W 15 + 40 N	40	643
456 - 417	L-4W 15 + 60 N	58	428
456 - 418	L-4W 15 + 80 N	34	185
456 - 419	L-4W 16 + 00 N	35	119
456 - 420	L-4W 16 + 20 N	30	129
456 - 421	L-4W 16 + 40 N	27	183
456 - 422	L-4W 16 + 60 N	42	514
456 - 423	L-4W 16 + 80 N	39	890
456 - 424	L-4W 17 + 00 N	162	1330
456 - 425	L-4W 17 + 20 N	45	198
456 - 426	L-4W 17 + 60 N	34	119
456 - 427	L-4W 18 + 00 N	29	118
456 - 428	L-4W 18 + 20 N	35	129
456 - 429	L-4W 18 + 40 N	28	82
456 - 430	L-4W 18 + 60 N	21	77
456 - 431	L-4W 18 + 80 N	37	68
456 - 432	L-4W 19 + 00 N	29	91
456 - 433	L-4W 19 + 20 N	58	293
456 - 434	L-4W 19 + 40 N	29	90
456 - 435	L-4W 19 + 60 N	37	122





# ECO-TECH LABORATORIES LTD.

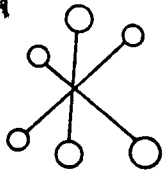
ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

ECSTALL MINING CORP.

SEPTEMBER 4, 1990

ET#	Description	PB (ppm)	ZN (ppm)
456 - 436	L-4W 20 + 00 N	39	256
456 - 437	L-4W 20 + 20 N	38	193
456 - 438	L-4W 20 + 40 N	29	630
456 - 439	L-4W 20 + 60 N	32	238
456 - 440	L-4W 20 + 80 N	30	258
456 - 441	L-4W 21 + 00 N	34	597
456 - 442	L-5W 5 + 00 N	33	102
456 - 443	L-5W 5 + 20 N	27	78
456 - 444	L-5W 5 + 40 N	35	134
456 - 445	L-5W 5 + 60 N	30	95
456 - 446	L-5W 5 + 80 N	23	59
456 - 447	L-5W 6 + 00 N	27	91
456 - 448	L-5W 6 + 20 N	28	118
456 - 449	L-5W 6 + 40 N	29	121
456 - 450	L-5W 6 + 60 N	20	67
456 - 451	L-5W 6 + 80 N	41	228
456 - 452	L-5W 7 + 00 N	36	154
456 - 453	L-5W 7 + 20 W	35	89
456 - 454	L-5W 7 + 40 N	31	71
456 - 455	L-5W 7 + 40	26	41
456 - 456	L-5W 7 + 60	36	122
456 - 457	L-5W 8 + 00 N	40	57
456 - 458	L-5W 8 + 20 N	36	35
456 - 459	L-5W 8 + 40 N	48	70
456 - 460	L-5W 8 + 60 N	47	61
456 - 461	L-5W 8 + 80 N	45	83
456 - 462	L-5W 9 + 00 N	41	72
456 - 463	L-5W 9 + 20 N	54	90
456 - 464	L-5W 9 + 40 N	14	14
456 - 465	L-5W 9 + 60 N	46	69
456 - 466	L-5W 9 + 80 N	35	37
456 - 467	L-6W 10 + 00 N	33	45
456 - 468	L-6W 5 + 00 N	23	71
456 - 469	L-6W 5 + 20 N	24	39
456 - 470	L-6W 5 + 40 N	22	82
456 - 471	L-6W 5 + 60 N	20	67
456 - 472	L-6W 5 + 80 N	25	83
456 - 473	L-6W 6 + 00 N	18	76
456 - 474	L-6W 6 + 20 N	17	84
456 - 475	L-6W 6 + 40 N	16	30
456 - 476	L-6W 6 + 60 N	17	81
456 - 477	L-6W 6 + 80 N	21	71
456 - 478	L-6W 7 + 00 N	26	85
456 - 479	L-6W 7 + 20 N	25	122
456 - 480	L-6W 7 + 40 N	27	87



# ECO-TECH LABORATORIES LTD.

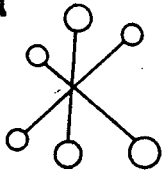
ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

ECSTALL MINING CORP.

SEPTEMBER 4, 1990

ET#	Description				PB (ppm)	ZN (ppm)
456 - 481	L-6W	7 +	60 N		28	103
456 - 482	L-6W	7 +	80 N		37	164
456 - 483	L-6W	8 +	00 N		28	56
456 - 484	L-6W	8 +	20 N		25	34
456 - 485	L-6W	8 +	40 N		47	93
456 - 486	L-6W	8 +	60 N		39	91
456 - 487	L-6W	8 +	80 N		45	87
456 - 488	L-6W	9 +	00 N		35	54
456 - 489	L-6W	9 +	20 N		47	100
456 - 490	L-6W	9 +	40 N		38	73
456 - 491	L-6W	9 +	60 N		43	109
456 - 492	L-6W	9 +	80 N		22	98
456 - 493	L-6W	10 +	00 N		23	163
456 - 494	L-7W	5 +	00 N		28	162
456 - 495	L-7W	5 +	20 N		29	100
456 - 496	L-7W	5 +	40 N		27	87
456 - 497	L-7W	5 +	60 N		26	63
456 - 498	L-7W	5 +	80 N		25	86
456 - 499	L-7W	6 +	00 N		22	67
456 - 500	L-7W	6 +	20 N		29	113
456 - 501	L-7W	6 +	40 N		27	93
456 - 502	L-7W	6 +	60 N		28	84
456 - 503	L-7W	6 +	80 N		24	71
456 - 504	L-7W	7 +	00 N		29	85
456 - 505	L-7W	7 +	20 N		25	81
456 - 506	L-7W	7 +	40 N		30	104
456 - 507	L-7W	7 +	60 N		46	122
456 - 508	L-7W	7 +	80 N		35	117
456 - 509	L-7W	8 +	00 N		38	87
456 - 510	L-7W	8 +	20 N		37	109
456 - 511	L-7W	8 +	40 N		40	283
456 - 512	L-7W	8 +	60 N		35	63
456 - 513	L-7W	8 +	80 N		32	106
456 - 514	L-7W	9 +	00 N		39	37
456 - 515	L-7W	9 +	20 N		26	104
456 - 516	L-7W	9 +	40 N		51	88
456 - 517	L-7W	9 +	60 N		50	118
456 - 518	L-7W	9 +	80 N		29	104
456 - 519	L-7W	10 +	00 N		51	143
456 - 520	B.L.7+60N	0 +	00 W		46	123
456 - 521	B.L.7+60N	0 +	20 W		26	83
456 - 522	B.L.7+60N	0 +	40 W		36	107
456 - 523	B.L.7+60N	0 +	60 W		37	101
456 - 524	B.L.7+60N	0 +	80 W		39	105
456 - 525	B.L.7+60N	1 +	00 W		42	91



# ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

ECSTALL MINING CORP.

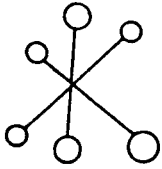
SEPTEMBER 4, 1990

ET#	Description			PB (ppm)	ZN (ppm)
456 - 526	B.L.7+60	1 +	20 N	81	113
456 - 527	B.L.7+60N	1 +	40 W	62	134
456 - 528	B.L.7+60N	1 +	60 W	63	134
456 - 529	B.L.7+60N	1 +	80 W	112	145
456 - 530	B.L.7+60N	2 +	00 W	150	176
456 - 531	B.L.7+60N	2 +	20 W	132	104
456 - 532	B.L.7+60N	2 +	40 W	29	76
456 - 533	B.L.7+60N	2 +	60 W	27	63
456 - 534	B.L.7+60N	2 +	80 W	40	82
456 - 535	B.L.7+60N	3 +	00 W	28	54
456 - 536	B.L.7+60N	3 +	20 W	39	60
456 - 537	B.L.7+60N	3 +	40 W	28	32
456 - 538	B.L.7+60N	3 +	60 W	39	69
456 - 539	B.L.	3 +	80 W	29	41
456 - 540	B.L.	4 +	20 W	38	66
456 - 541	B.L.	4 +	40 W	37	69
456 - 542	B.L.	4 +	60 W	26	86
456 - 543	B.L.	4 +	80 W	15	39
456 - 544	B.L.	5 +	20 W	17	33
456 - 545	B.L.	5 +	40 W	17	45
456 - 546	B.L.	5 +	60 W	21	40
456 - 547	B.L.	5 +	80 W	27	99
456 - 548	B.L.	6 +	20 N	30	128
456 - 549	B.L.	6 +	40 W	28	101
456 - 550	B.L.	6 +	60 W	33	146
456 - 551	B.L.	6 +	80 W	31	208

NOTE: \* = -20 MESH  
\*\* = -42 MESH

*Jutta Jealouse*  
ECO-TECH LABORATORIES LTD.  
JUTTA JEALOUSE  
B.C. Certified Assayer

SC90/ECSTALL



# ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

## I N V O I C E

=====

DATE: September 4, 1990

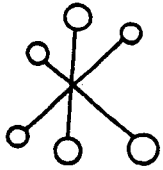
Toklat Resources Inc.  
1701 Mt. Nelson Crescent  
CRANBROOK, B.C.  
V1C 5V6

INVOICE #:M604

=====		
A N A L Y S E S	P R I C E / S A M P L E	A M O U N T
=====		
Paid to GREYHOUND on your behalf (waybill attached)		174.90
10% Handling charge		17.49
		-----
TOTAL DUE AND PAYABLE UPON RECEIPT		192.39

=====

TERMS: NET 30 DAYS. INTEREST AT RATE OF 1-1/2% PER MONTH (18% PER ANNUM)  
WILL BE CHARGED ON OVERDUE ACCOUNTS.



**ECO-TECH LABORATORIES LTD.**

**ASSAYING - ENVIRONMENTAL TESTING**

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

**I N V O I C E**

DATE: SEPTEMBER 7, 1990

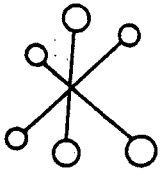
ECSTALL MINING CORP.  
307 - 475 HOWE STREET  
VANCOUVER, B.C.  
V6C 2B3

INVOICE #: ETK 90-456

A N A L Y S E S	PRICE/SAMPLE	AMOUNT
551 PB ZN GEOCHEM (SOIL) (INCLUDING SAMPLE PREP)	3.50	1928.50
TOTAL DUE & PAYABLE UPON RECEIPT:		1928.50

**COPY**

TERMS: NET 30 DAYS. INTEREST AT RATE OF 1-1/2% PER MONTH (18% PER ANNUM) WILL BE CHARGED ON OVERDUE ACCOUNTS.



# ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING  
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

## I N V O I C E

ECSTALL MINING CORP.  
307 - 475 HOWE STREET  
VANCOUVER, B.C.  
V6C 2B3

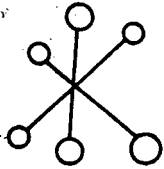
DATE: AUGUST 23, 1990

INVOICE #: ETK 90-458

A N A L Y S E S		PRICE/SAMPLE	AMOUNT
PROJECT: SHAG			
4	PB ZN GEOCHEM (ROCK) (INCLUDING SAMPLE PREP)	6.00	24.00
TOTAL DUE & PAYABLE UPON RECEIPT:			24.00

**COPY**

TERMS: NET 30 DAYS. INTEREST AT RATE OF 1-1/2% PER MONTH (18% PER ANNUM) WILL BE CHARGED ON OVERDUE ACCOUNTS.



# ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (804) 573-5700 Fax 573-4557

## I N V O I C E

ECSTALL MINING CORP.  
307 - 475 HOWE STREET  
VANCOUVER, B.C.  
V6C 2B3

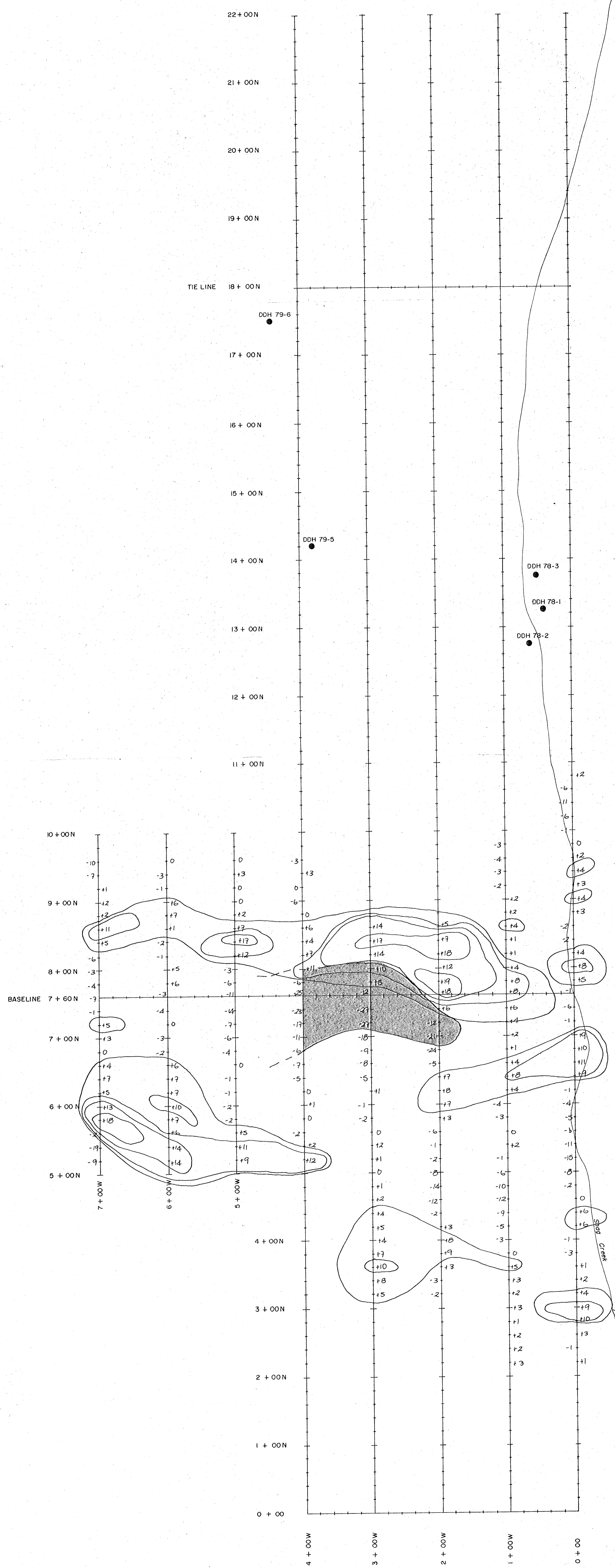
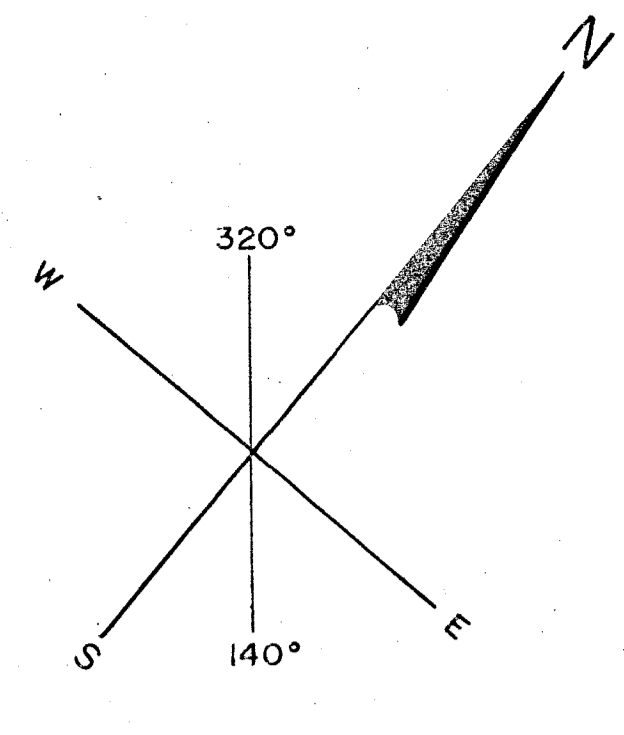
DATE: AUGUST 22, 1990

INVOICE #: ETK 90-457

ANALYSES	PRICE/SAMPLE	AMOUNT
31 PB ZN GEOCHEM (ROCK) (INCLUDING SAMPLE PREP)	6.00	186.00
TOTAL DUE & PAYABLE UPON RECEIPT:		186.00

**COPY**

TERMS: NET 30 DAYS. INTEREST AT RATE OF 1-1/2% PER MONTH (18% PER ANNUM) WILL BE CHARGED ON OVERDUE ACCOUNTS.



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

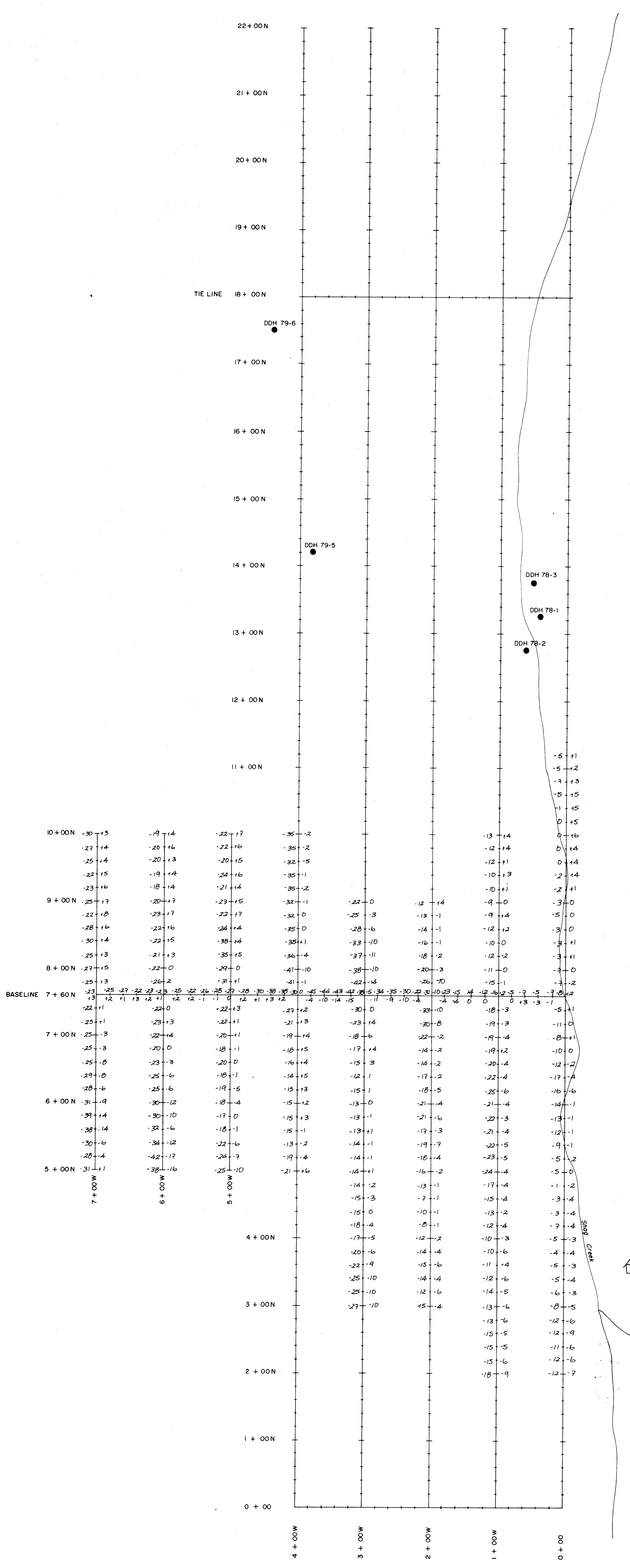
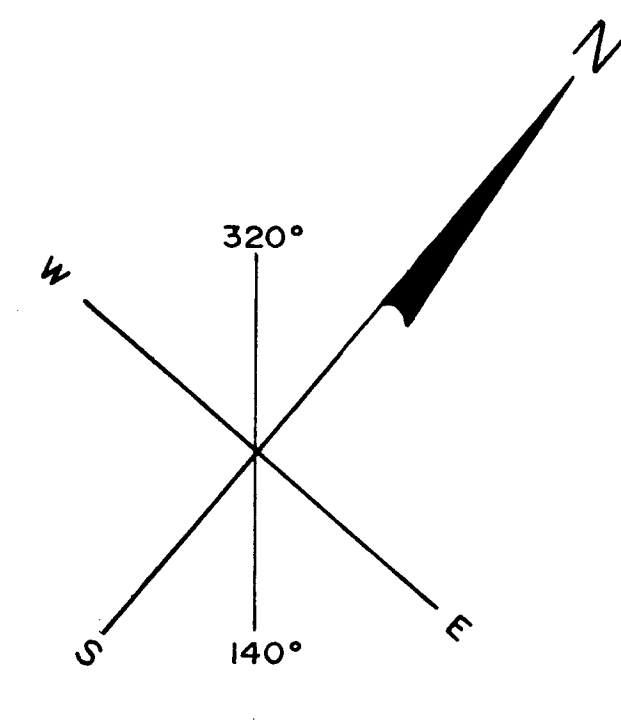
# 20,538

- LEGEND**
- ~ Creek
  - ⛑ Camp
  - Drillhole Location
  - Geophysical Contour  
Contour Interval: 4\*
  - ◐ Chargeability high: low

Note: only positive filtered data contoured.  
Instrument: Geonics EM-16

<b>ECSTALL MINING CORP.</b>			
<b>SHAG PROPERTY</b>			
Contoured Fraser-Filtered VLF-EM Data			
Operator: V. Parsons		Transmitter: Annapolis, Md.	
Scale: 1:2500	Date: SEPT. 1990	Mapped by: T. TERMUENDE	
TOKLAT RESOURCES INC.		NTS: 82J/11,12	Map No: 5



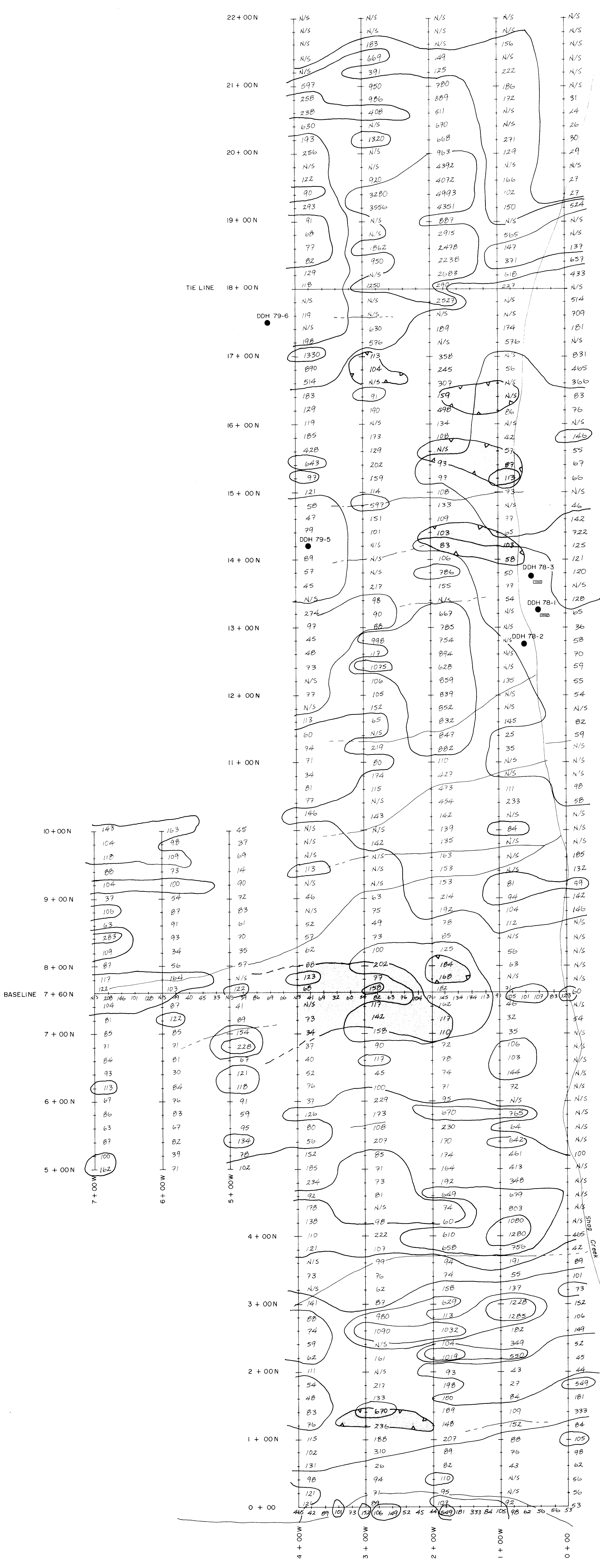
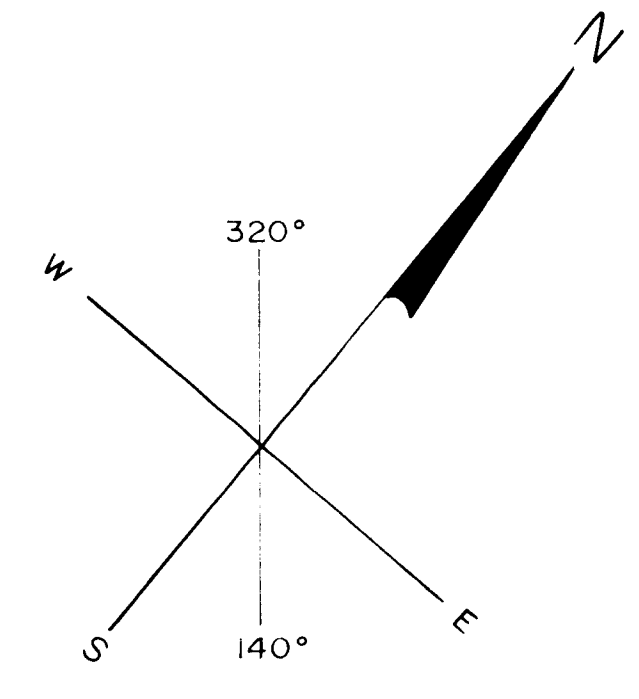


**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**20,538**

- LEGEND**
- Creek
  - Camp Location
  - Drillhole Location
  - In Phase Quadrature
- Instrument: Geonics EM-16

<b>ECSTALL MINING CORP.</b>			
<b>SHAG PROPERTY</b>			
VLF-EM Data (unfiltered)			
Operator: V. Parsons		Transmitter: Annapolis, Md.	
Scale: 1:2500	Date: SEPT 1990	Mapped by: T. TERMUENDE	
TOKLAT RESOURCES INC.		NTS: 82J/11,12	Map No: 4



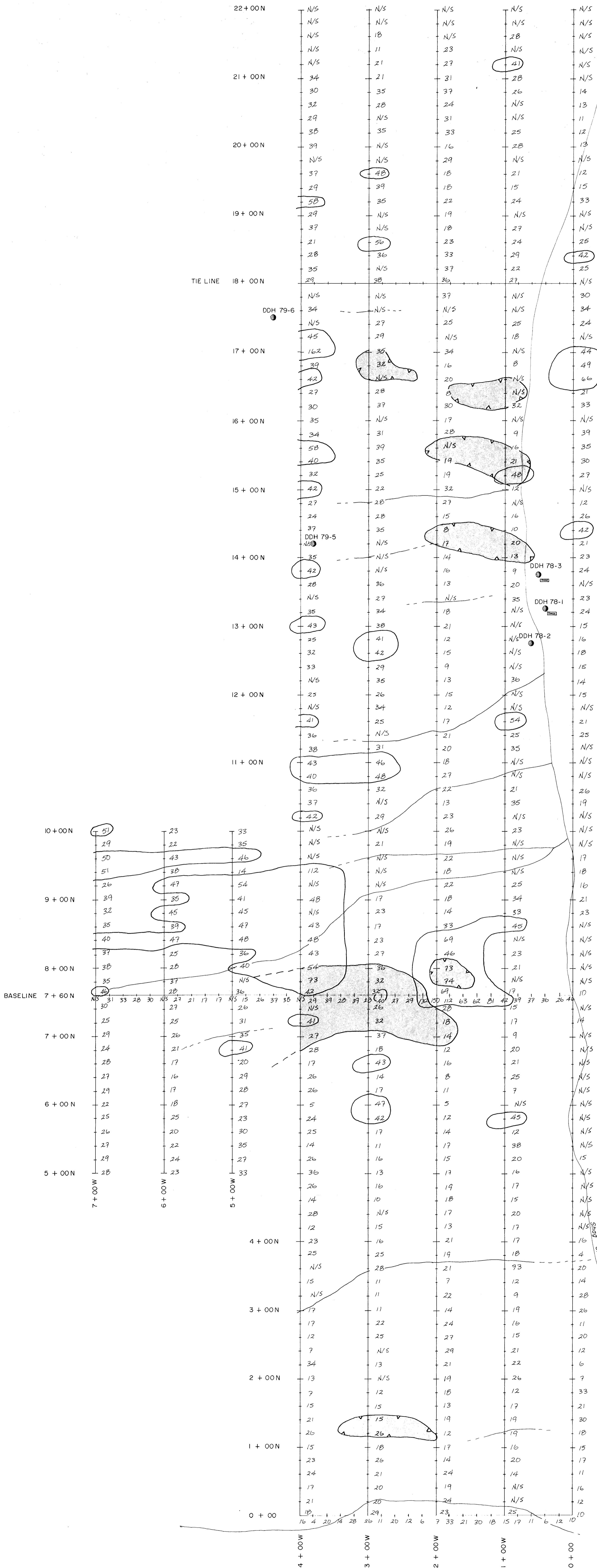
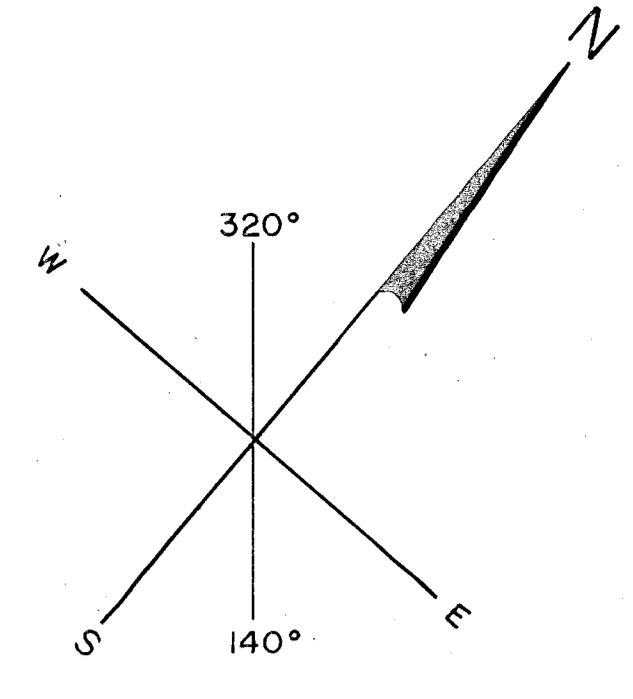
**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**20,538**

**LEGEND**

- Camp Location
- Drill Hole Location
- Core Storage Location
- Stram; underground
- Geophysical Anomaly (shaded)  
(chargeability high, low)
- Geochemical Contour Line  
(contour interval: 500 ppm)

<b>ECSTALL MINING CORP. SHAG PROPERTY</b>			
Soil Geochemistry Zinc in Soils (ppm)			
Scale: 1: 2500	Date: SEPT 1990	Mapped by: T. TERMUENDE	
TOKLAT RESOURCES INC.		NTS 82/J/11/12	Map No. 1



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

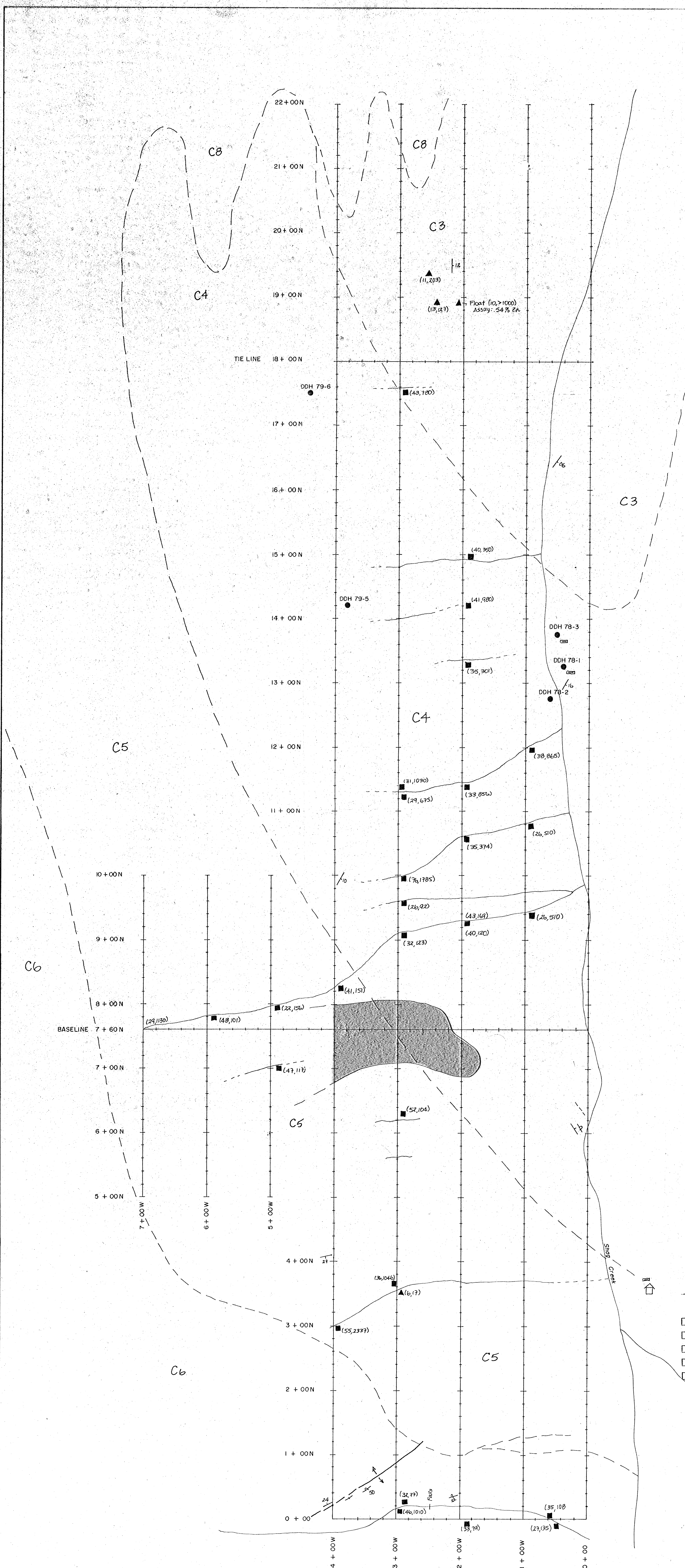
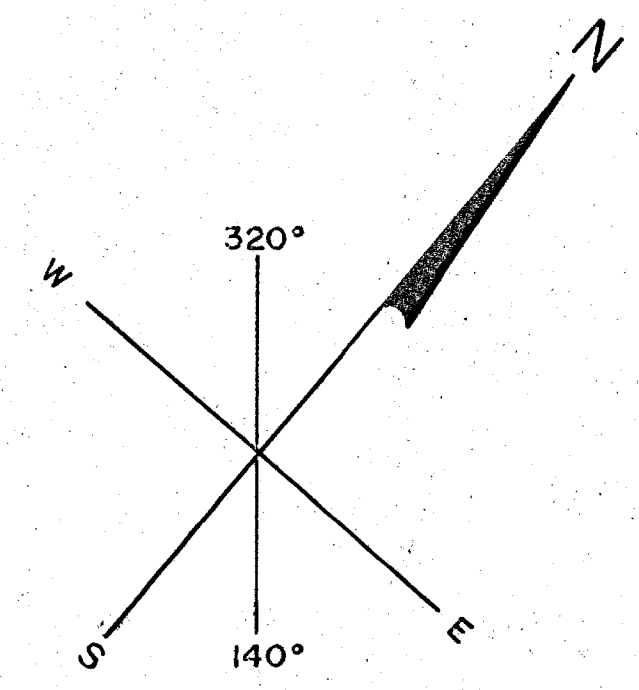
**20,538**

- LEGEND**
- Camp Location
  - Drill Hole Location
  - Core Storage Location
  - Stream; underground
  - Geophysical Anomaly (shaded) (chargeability high, low)
  - Geochemical Contour Line (contour interval: 500 ppm)

**ECSTALL MINING CORP.  
SHAG PROPERTY**

Soil Geochemistry  
Lead in Soils (ppm)

Scale: 1: 2500 Date: SEPT. 1990 Mapped by: T. TERMUENDE  
TOKLAT RESOURCES INC. NTS: 82J/11,12 Map No: 2



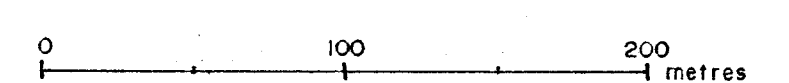
- LEGEND**
- Camp Location
  - Drill Hole Location
  - Core Storage Location
  - Stream; underground
  - Geophysical Anomaly, 1988 (shaded)
  - Silt Sample Location
  - Rock Sample Location
  - Geologic Contact; inferred
  - Bedding Orientation; overturned
  - \*BM Dolostone, Limestone Equivalent
  - \*Dividing Limestone, Dolostone Equivalent
  - \*Second Dolostone
  - \*Cliff Step Limestone
  - \*Cyclic Dolostone
- \*Source: RioCanex 1979 Report

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**20,538**

**ECSTALL MINING CORP.  
SHAG PROPERTY**

Geology and Sample Locations



Scale: 1: 2500	Date: SEPT. 1990	Mapped by: T. TERMUENDE
TOKLAT RESOURCES INC.		NTS: 82J/11/2 Map No: 1