

KENNCO EXPLORATIONS, (WESTERN) LIMITED

4

REPORT

GEOCHEMICAL AND GEOPHYSICAL SURVEYS

ON THE

K.T.I. No. 1 Claim Group K.T.I. No. 2 Claim Group I.W. No. 1 Fr. Mineral Claim

<u>Two miles northwest of Gnawed Mtn.</u> <u>Highland Valley Area</u> <u>British Columbia</u>

50° 121° S.E.

<u>by</u>

R. W. Stevenson

June 2 - September 6, 1959

KENNCO EXPLORATIONS, (WESTERN) LIMITED

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Plates

_ _ _ _

-##Soil Sampling
¥//Line 80N
-#2 " 88N
7/3 " 96N
##4 " 104N
#5 " 112N
<i>tik "</i> 120N
#フ ″ 152N
#13 " 156N
+19 " 164N
#10 Leology Quil-3
#10 Securgy # 11-13 Diamond Duill Records PNI-3

A B B C D E F G H I J A

List of Claims and Distribution of Work

Claim			Distributio	on of Work	Years			
Group	<u>Claim</u>	Tag No.	Geochemical	Geophysical	Work Claimed	<u>Total</u>		
K.T.I.No.1	KEN 21 KEN 22 KEN 23 Fr. KEN 24 KEN 25 KEN 26	275095 275096 275097 275098 275099 275100	8,00 8,00 42,00 54,00 20,00 10,00 \$142,00	133.00 133.00 290.70 193.80 199.50 123.50 \$1073.50	2 2 2 2 2 2 2 2 12	\$1215.50		
K.T.I.No.2	T.M. 1 T.M. 2	354102 354103	56.00 44.00 \$100.00	209.00 152.00 \$361.00	2 2 4	\$ 461.00		
I.W.No.1 Fr. M.C.	I.W. 1 Fr.	354101	\$ 22.00	\$ 94.75	1	\$ 116.75		

- -

Introduction

The claim groups discussed in this report are located about two miles northwest of Gnawed Mountain, which is on the south side of the Highland Valley, about 24 miles southeast of Ashcroft, B.C. The exploration work was done on these properties by Kennco Emplorations, (Western) Limited in conjunction with work on an optioned property to the east. The work included geochemical (soil), induced polarization, and self potential surveys, and was done intermittently between June 2 and September 6, 1959.

The geochemical sampling was done by G. Rayner, G. Antenbring, J. Barakso, and G. Delane; under the supervision of R.W. Stevenson, The geophysical work was done by R. MacDougall, R. Roadhouse, H. McGladdery, F. Bara and A. Ablett, under the supervision of Dr. D. A. Hansen, Linecutting was done by G. Rayner, G. Antenbring, J. Barakso, A. Drummond, G. Bara and G. Delane, under supervision of R. W. Stevenson, As cutting of the control lines proceeded or was completed, various members of the crew commenced the survey work as noted above.

Location and Access

The claims are located at latitude 50°25'N; longitude 121°01'W. They are on the lower northwest slope of Gnawed Mountain, which is on the south side of the Highland Valley, about 24 miles southeast of Ashcroft, B.C. Elevation is about 5,000' a.s.1. The topography is gently undulating, except for a few hills caused by terminal moraines and banks of glacial outwash. Most of the area is covered with open jackpine forest.

A good road extends to the Skeena Silver Mines camp, about two miles north of the claims. From there, a jeep road passes about one mile east of the claim area. The grid of blazed lines shown on the accompanying map connect with lines which extend out to this road.

Field Procedures

<u>Control Survey Lines</u>: East-west lines were run by chain and compass to provide for control of the work. These lines were located from north-south base lines. On the K.T.J. No. 1 claim group, the east-west lines are 800' apart. On the K.T.J. No. 2 claim group, they are 400' apart. Only one line crosses the I.W. No. 1 fraction mineral claim. On the north end of the K.T.J. No. 1 claim group, one soil cample line was done by pace and compass traverse. Government maps were enlarged, and with the aid of air photos, a base map with scale of 1'' = 1000' was completed. <u>Geochemical Survey</u>: The geochemical work consisted of a soil sample survey. Two types of spacing were used in taking the samples. On a reconnaissance hasis, samples were taken at 800' intervals on lines 800' apart. When further interest was suggested by anomalous soil results, samples were taken at 100' intervals on lines which were either 400' or 800' apart. Control was usually maintained by sampling on chain and compass lines, and on one line, by pace and compass traverse. Samples were taken from the "B" soil horizon wherever possible and analysed for copper by hot nitric acid extraction at the University of British Columbia geochemical laboratory. The results were plotted on the accompanying map (scale: 1" = 1000'), labeled Plate "A".

<u>Geophysical Surveys:</u> An induced polarization survey was done on the lines shown on the accompanying map labelled Plate "A". Dipole spacing was 500'. A Self Potential survey was done on lines where sharp breaks in earth potential were observed during the Induced Polarization survey. This is further discussed in the section on Geophysical Surveys.

Geochemical Survey

The usual background copper content of the soil is about 40 to 60 parts per million. As the copper content rises above 90 ppm, the sample is considered to be significantly anomalous. Factors such as drainage and depth of overburden also affect the anomalous copper value.

Only one large continuous soil anomaly was located. This is on claims Ken 21, 22, 23, and 24, in claim group K.T.I. No. 1. This is outlined in red on the accompanying map labelled Plate "4". These values presumably reflect very weak copper mineralization which has been observed in outcrops to the east. This interpretation is confirmed by the lack of geophysical response on these claims.

On the K.T.I. No. 2 claim group and the I.W. No. 1 Fractional claim, the anomalous soil values tend to be erratic. Anomalous samples are not continuous enough to allow correlation of results.

Geophysical Surveys

Induced Polarization.

<u>Description of the method</u>: Induced Polarization effects occur when there is a change in the method of electrical conduction in the ground. In ordinary earth materials conduction is by ions. Sulfides, native metals, graphite, magnetite, and other minerals with metallic lusters exhibit metallic conduction or conduction by electrons. If conduction paths through the earth involve both types of conduction and direct current is used, the metallic conductors become blocked or polarized just as the electrodes in an electrolytic cell become polarized. This effect is known as interfacial polarization, over-voltage, or double-layer charging. Polarization does not occur with alternating current and the resistance of paths involving electronic conductors is accordingly less with alternating current than with direct current.

This effect is utilized in prospecting by making standard resistivity measurements first using direct current and then using alternating current. A decrease in apparent resistivity with the alternating current measurement is an indication of the presence of metallic conductors.

Two quantities are obtained from field measurements — the DC apparent resistivity designated ρ_{DC} and the AC apparent resistivity designated ρ_{AC} . The units of both of these quantities are ohm-feet divided by 2 . From ρ_{DC} and ρ_{AC} two additional quantities are computed. These are the Percent Frequency Effect, PFE, and the Metallic Conduction Factor, MCF.

and

$$PFE = \frac{\rho_{DC} - \rho_{AC}}{\rho_{AC}}$$

$$MCF = \frac{PFE}{\rho_{DC}} \times 10^5$$

These two quantities are studied with the DC resistivity in arriving at an interpretation. The Percent Frequency Effect must be significantly greater than (a) instrumental precision and (b) background frequency effects of the area in order to be considered as indicative of metallic conduction. In some cases only ρ_{DC} and the MCF are presented in the data. It must then be established that the values given for the MCF are based upon significant frequency effects. Anomalous values of the MCF are considered to indicate metallic conduction, which may or may not consist of economic mineralization.

<u>Presentation of Data:</u> The method of presenting data is illustrated on the attached drawing. The end-on electrode arrangement is used with current applied to the earth through a long wire grounded at both ends of interval "a". The receiver consists of a suitable voltmeter grounded at both ends of interval"C". In practice the intervals a,b,c,.... etc. are equal and vary from 100 to 1000 feet, depending on the problem at hand. With the Sender across interval "a" and the Receiver across interval "c", the values of the MCF are plotted at the point "a,c" below the reference line and PDC is plotted at point "a,c" above the reference line. Points "a,c" are determined by the intersection of 45° diagonals drawn from the mid-points of Sender and Receiver intervals. The next reading would be taken with the same Sender position but with the receiver advanced to interval "d". The data for this arrangement are plotted at points "a,d". The Receiver is stepped outward until the observed voltage is too small for a reliable reading. The Sender is then advanced to interval "b" and the procedure with the Receiver is repeated.

The values plotted at the various points are then contoured, Percent Frequency Effects, if shown, appear as superscripts to PDC and are not contoured. The reference line on the drawing represents the line of electrodes on the ground. Electrical changes in the ground at increasingly greater distances away from the electrode line are indicated by the behavior of contours parallel to and away from the reference line. Lateral electrical changes along the line of electrodes are indicated by contours along the direction of a 45° diagonal.

As with other geophysical methods, experience is an important factor in the deduction of a valid interpretation.

Objectives of Survey. It was agreed that exploration would be confined to possible ore bodies which reached the sub-outcrop and which were two to three hundred feet in minimum horizontal dimension. For this situation 500 foot dipoles were used, with a maximum separation of 1500 feet. This configuration would effectively prospect the ground below and between grid lines 800 feet apart.

Results of Investigation:

<u>Ground Coverage</u>. The area covered by the Induced Potential survey is indicated on Plate "A". A total of 15,700 feet was surveyed with 500 foot dipoles.

Interpretation of Results: No strong induced polarization responses were obtained during the course of the survey. Slightly higher readings were obtained on lines 104N, 120N, and 152N. However, these are not significantly above background noise level.

<u>Self Potential Surveys</u>. In conducting the induced potential surveys occasional sharp breaks in earth potential were observed. Several lines were run in detail by the Self Potential method to check the existence of the fairly large potential variations. The lines surveyed are tabulated below:

Line	From-To	Distance
120N	84W- 96W	1200
112N	82W-102W	2000
104N	84W- 94W	1000
96N	92W - 97W	500

Total 4700 feet

-5-

No self potential anomalies of significance were found. The noise level was generally in a plus or minus 20 millivolt range. Variations in this range are too small to be uniquely attributable to sulphide oxidations. Such variations may arise from local inhomogeneities in soil conditions such as pH, dissolved salts, water content, etc.

R. W. Stevenson

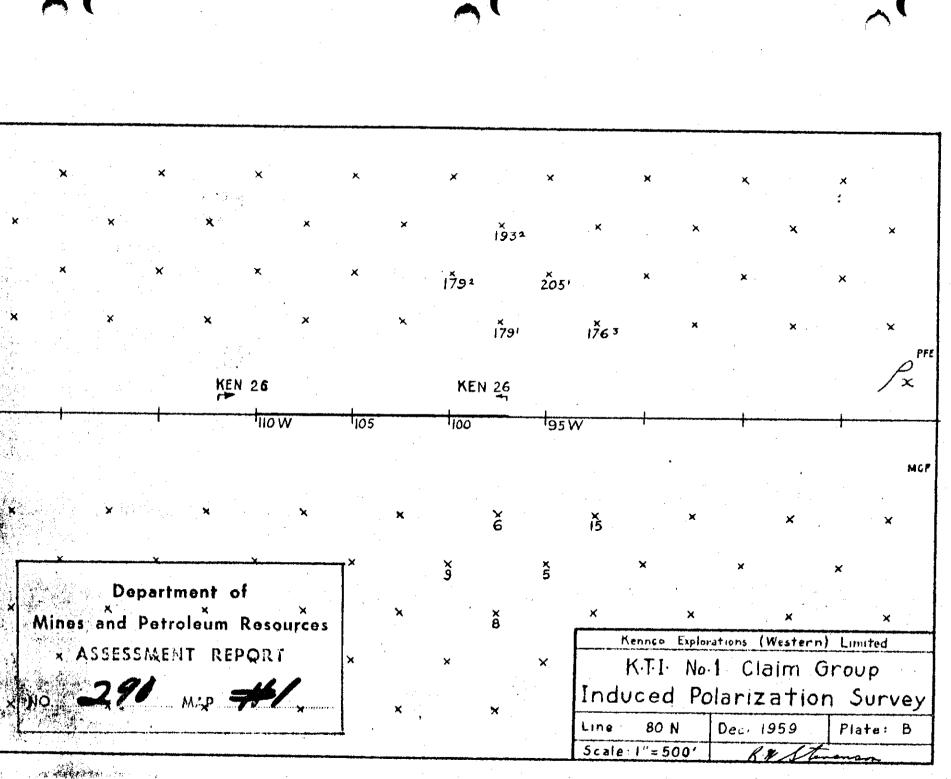
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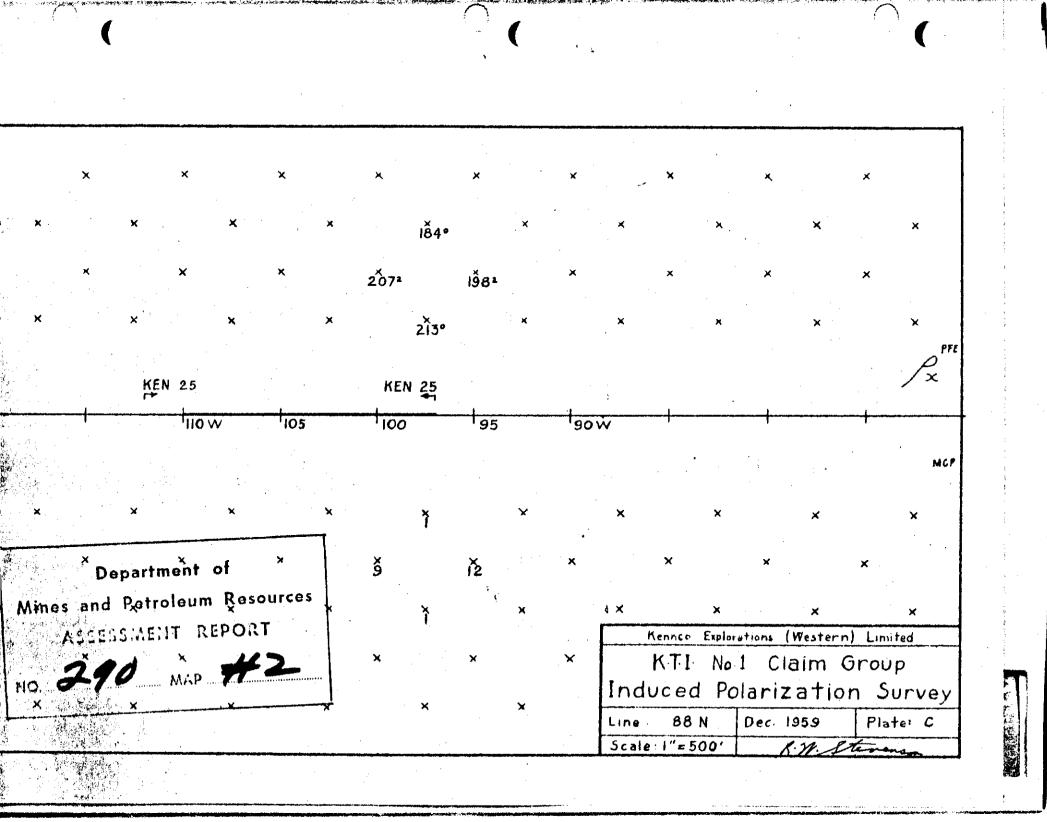
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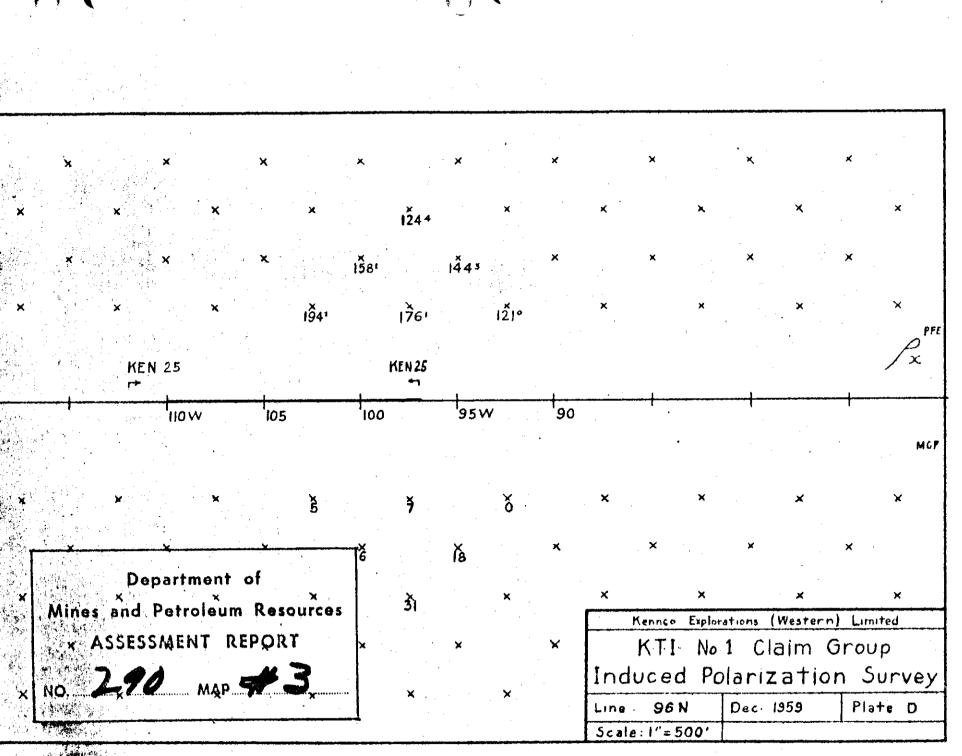
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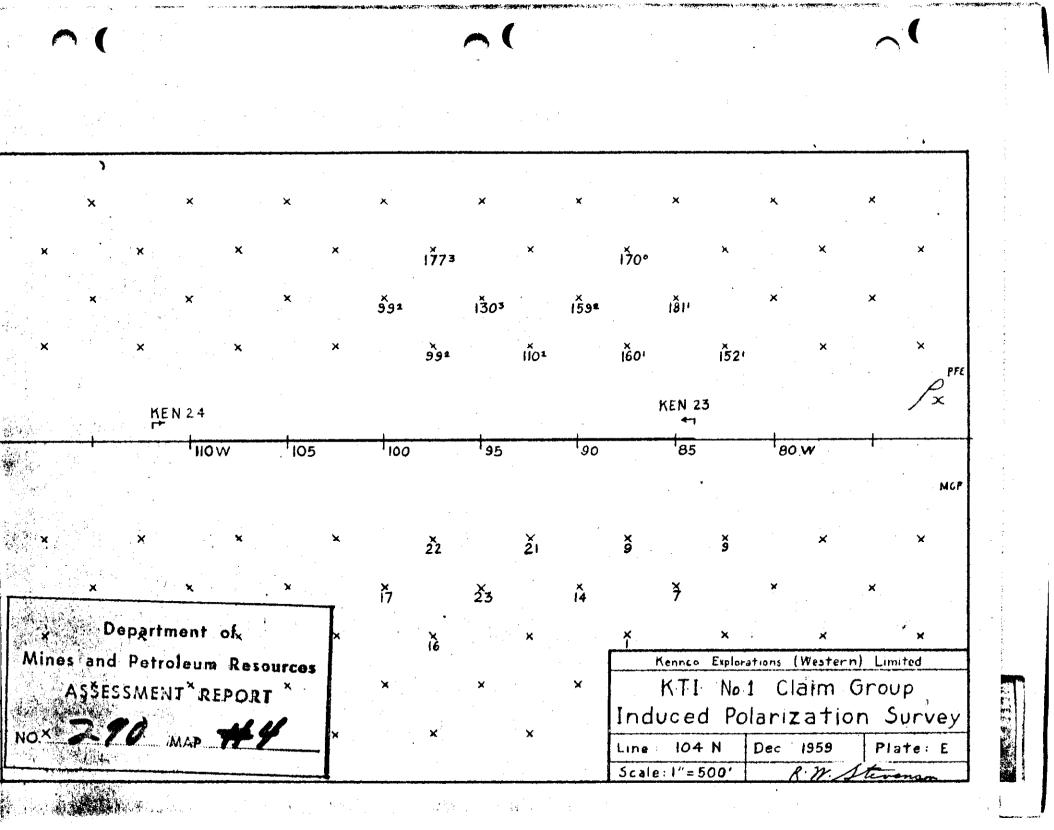
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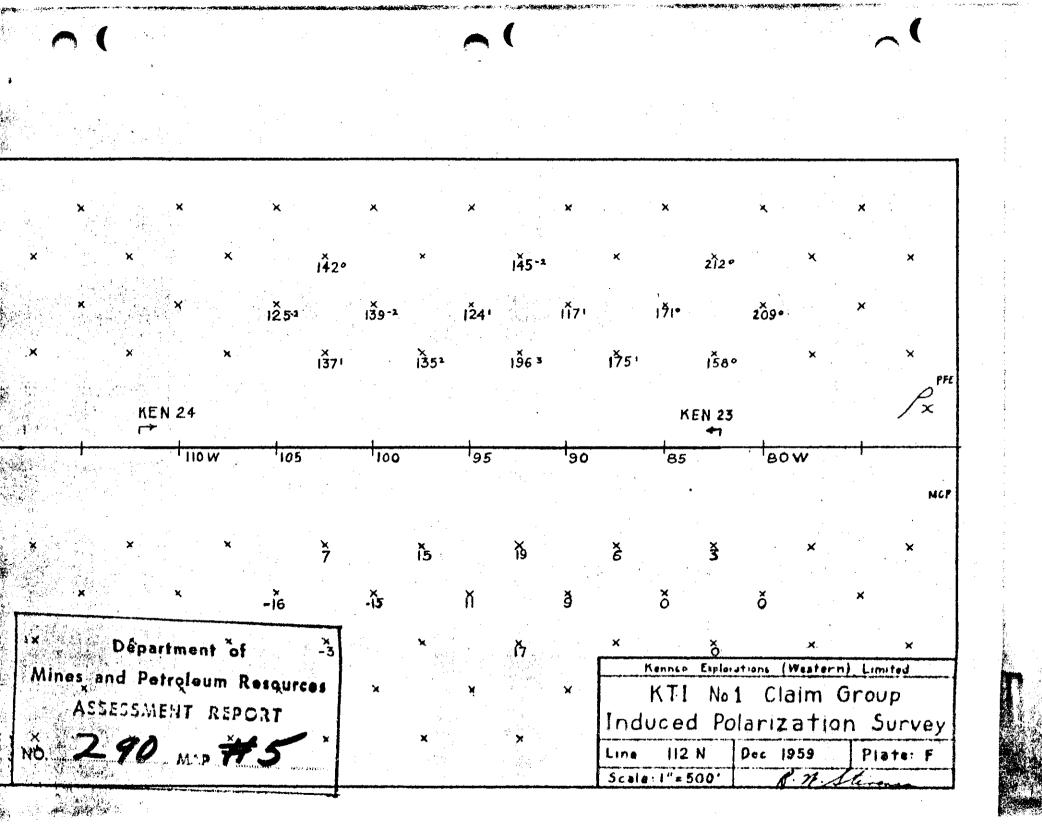
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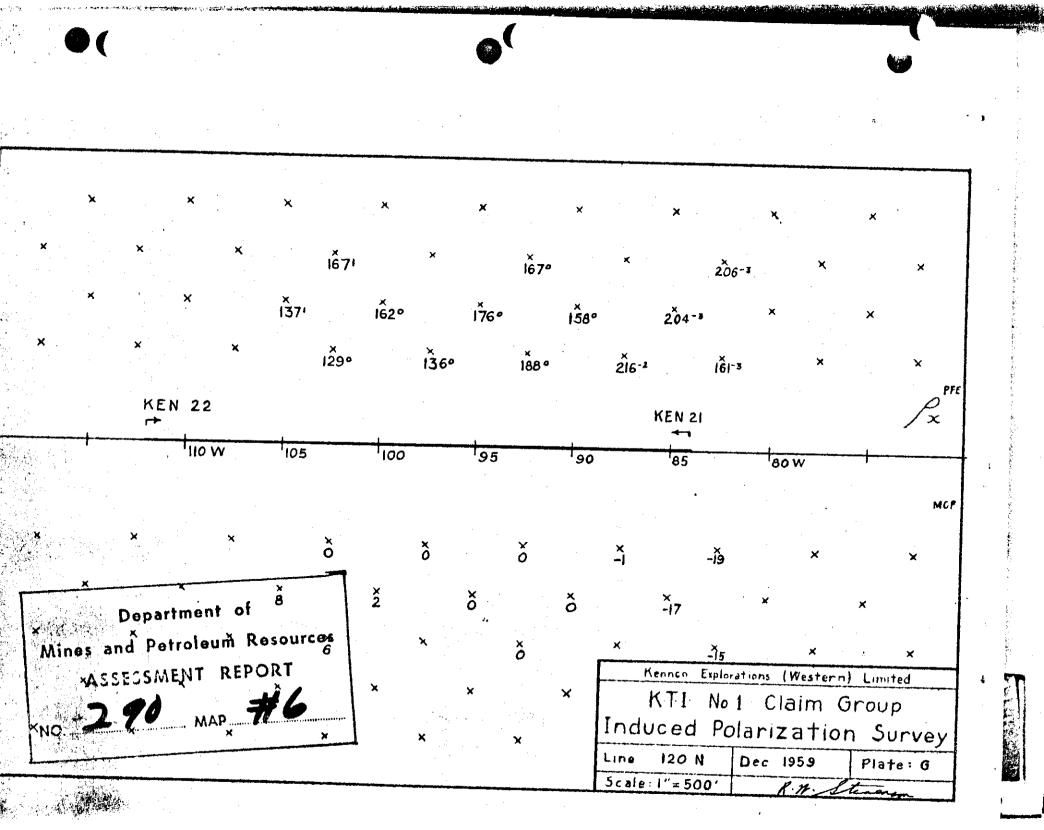












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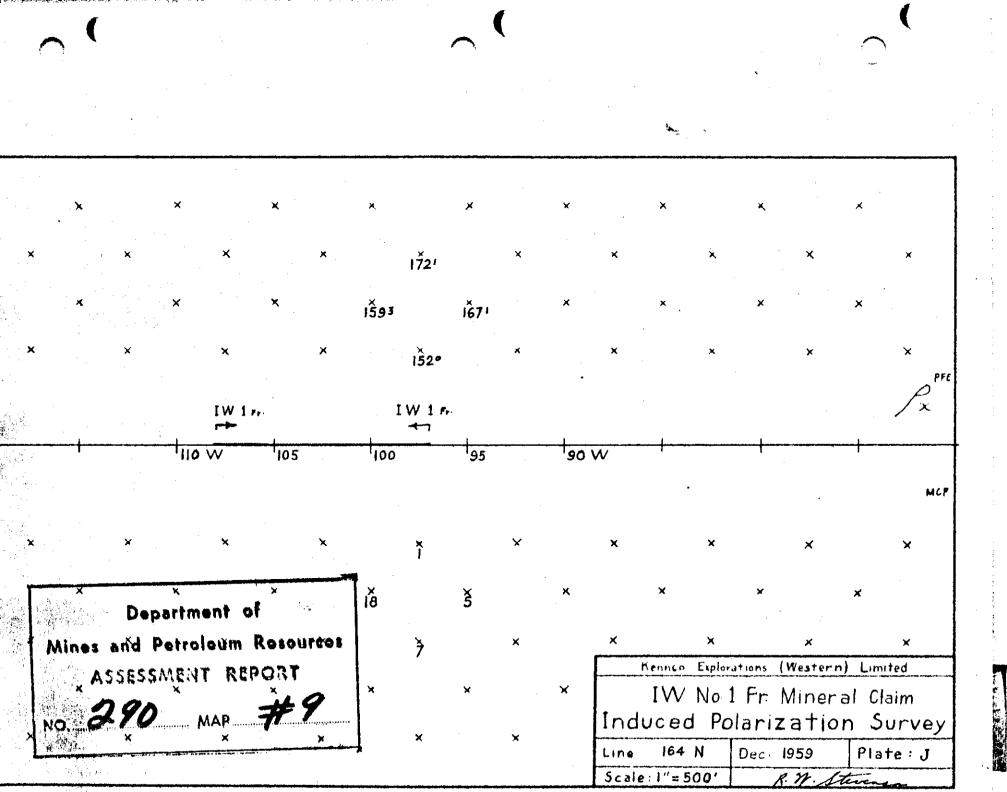
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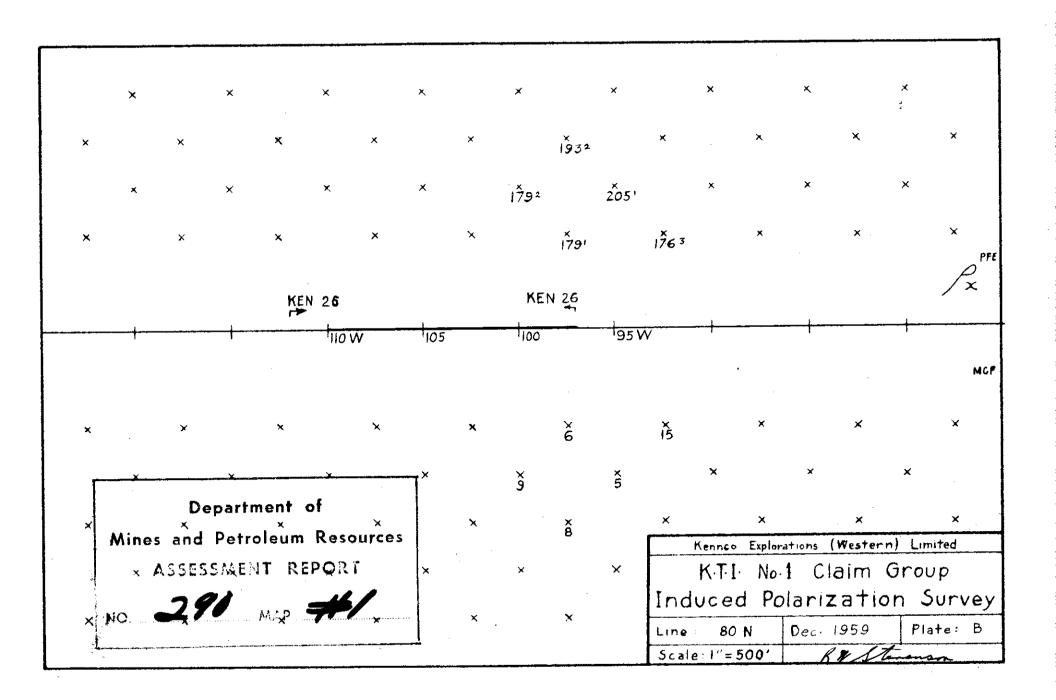
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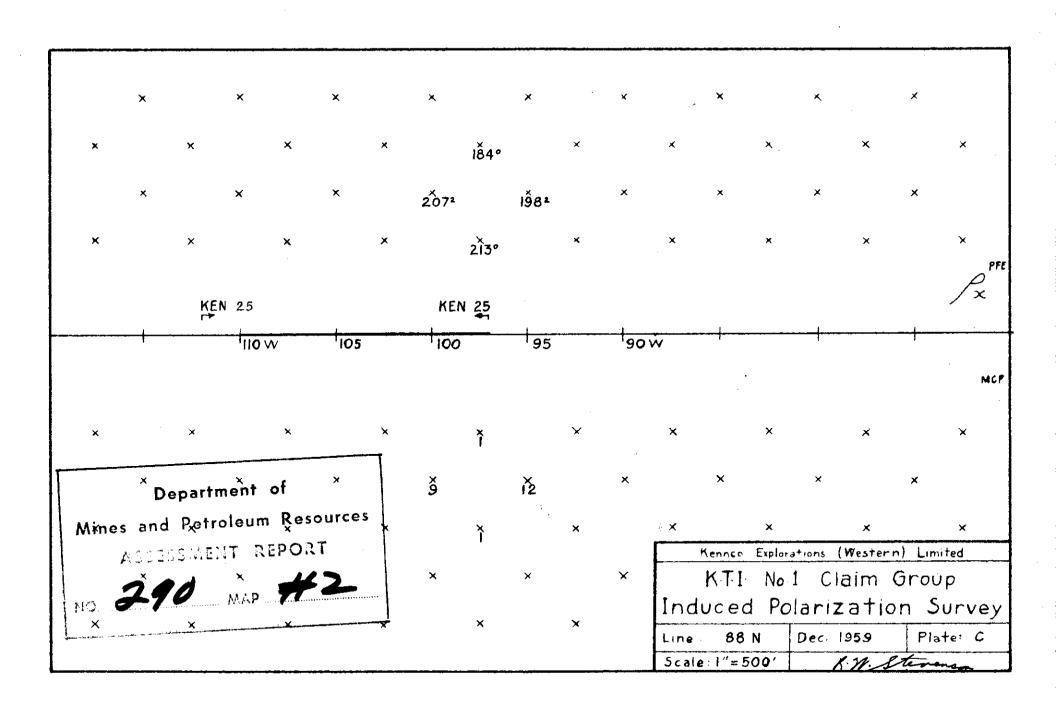


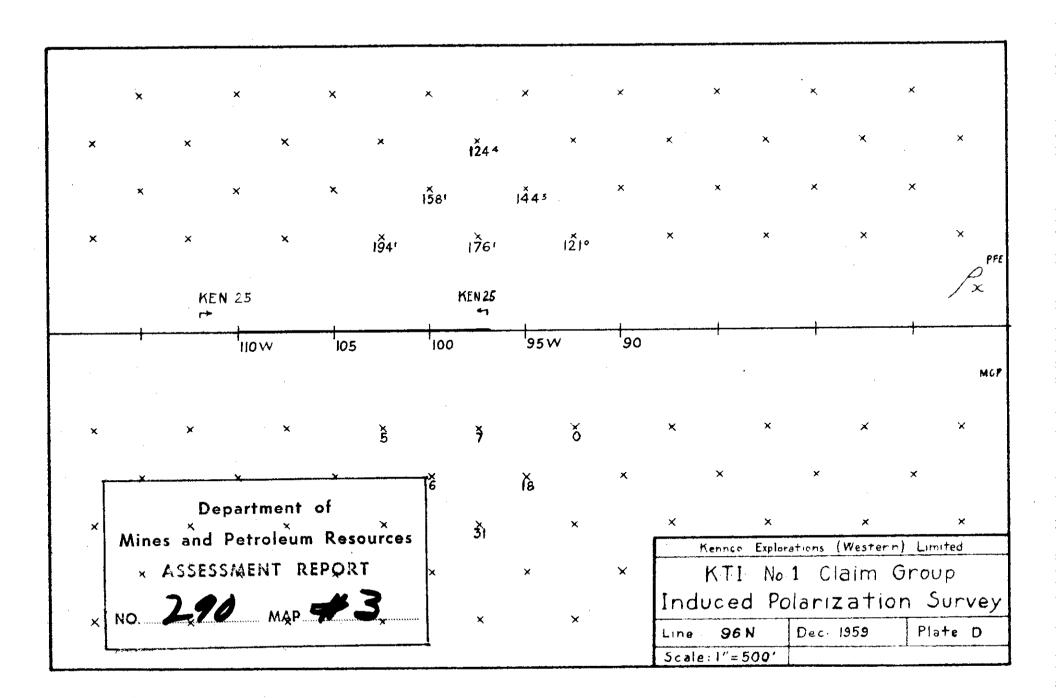
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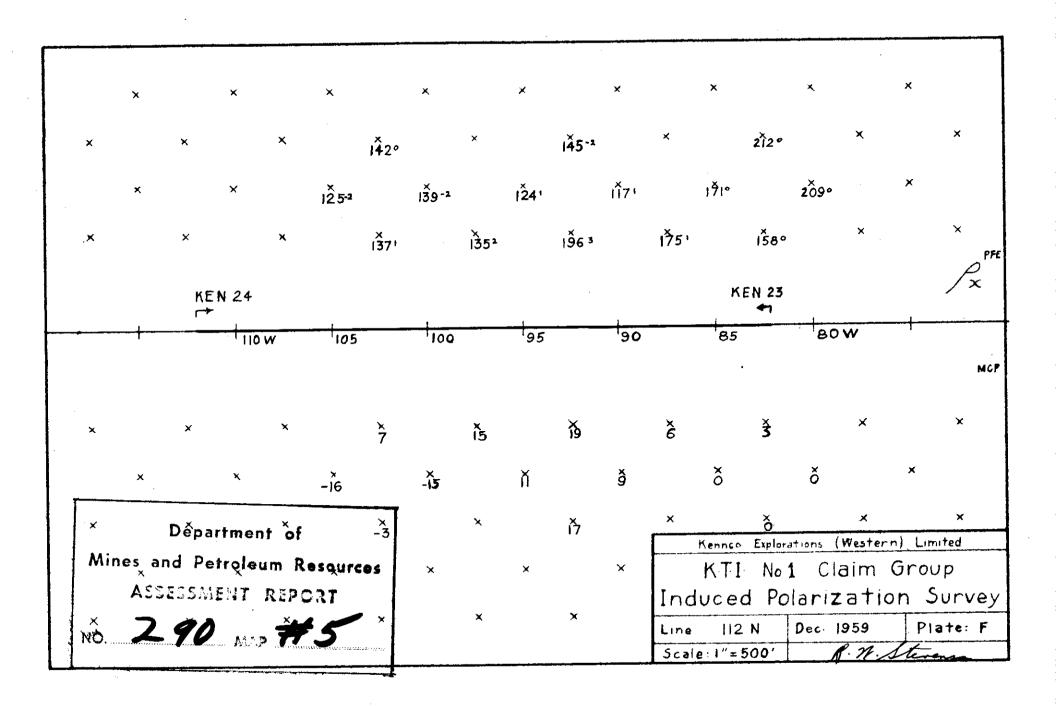
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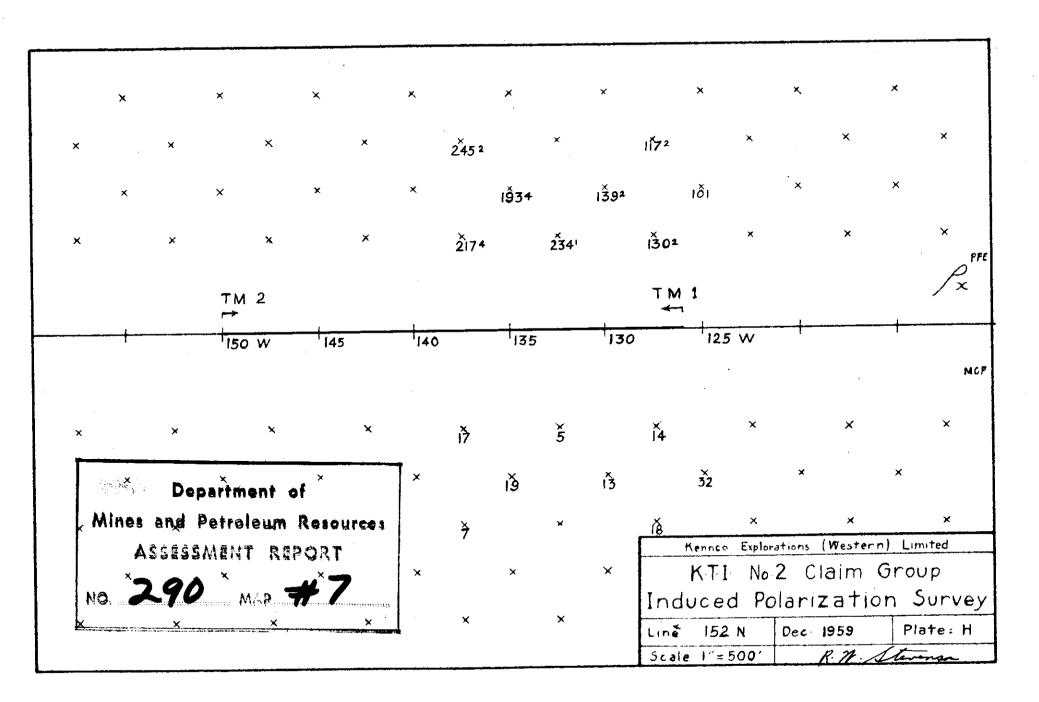
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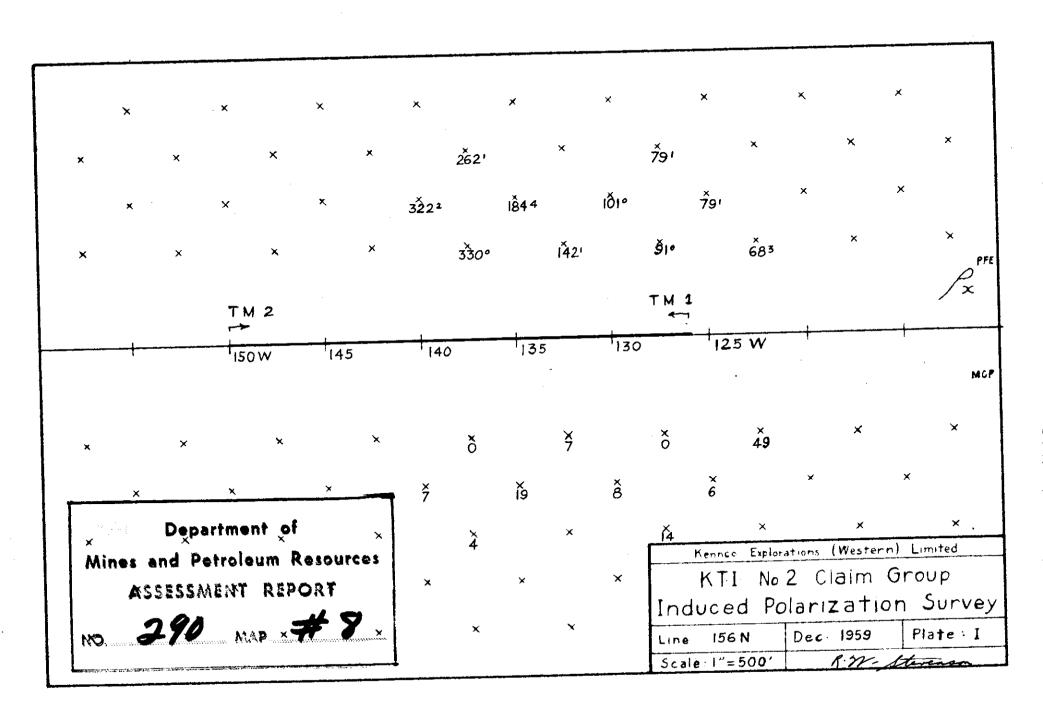
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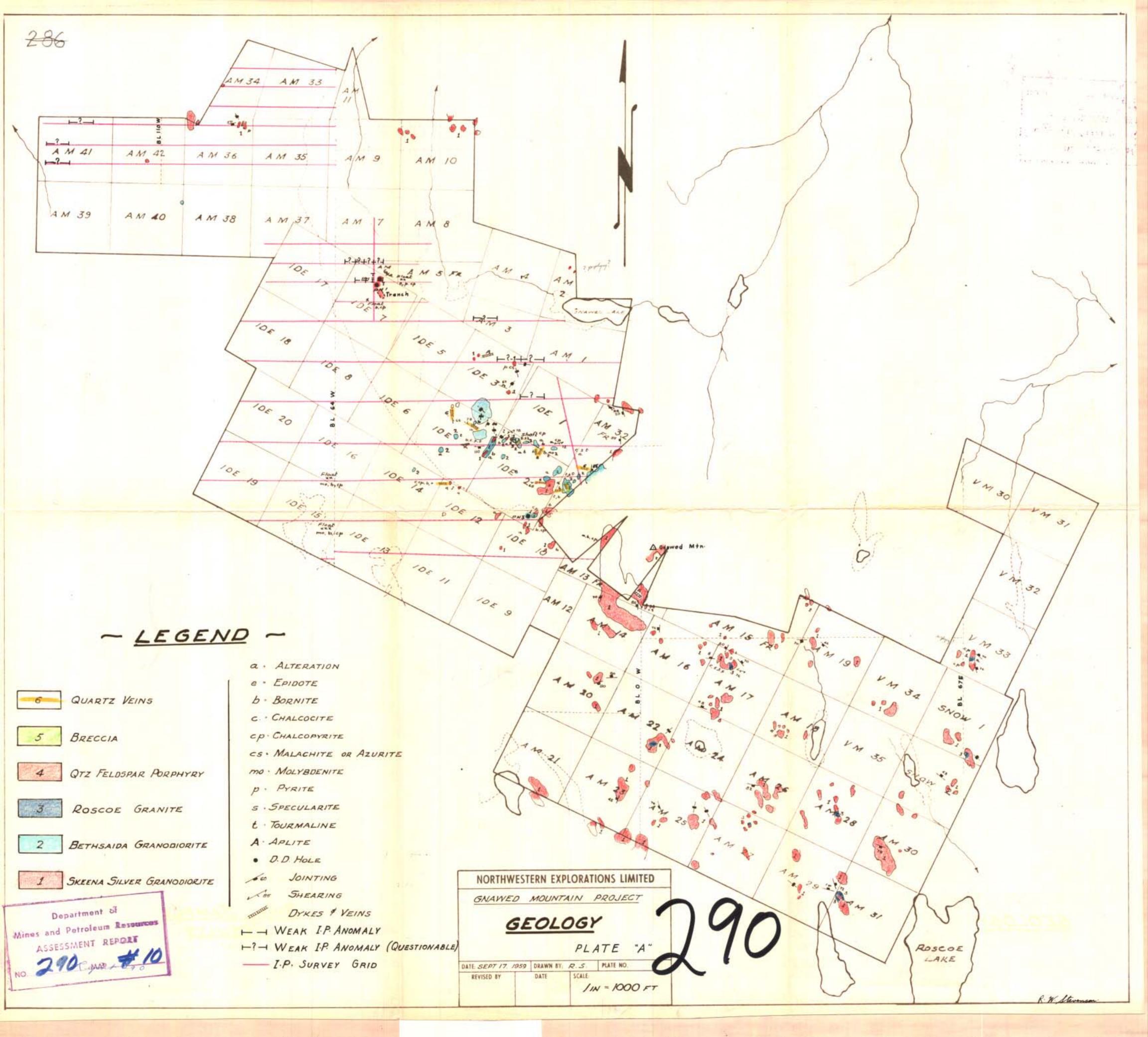
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-1M-MP-856	DIPS				SAMPLE	<u> </u>			AGSAYS		 RAGES		
	FROM	то	DESCRIPTION	SAMPLE NO.	FROM	то	WIDTH	Core r	ecovered	1 Rec.			
	0.	4*	Overburden and weathered rock,					24.1*	+	83%			
	4"	33*	Skeana Silver granodiorite. Slightly alt	ered,									
			feldspars cloudy; often greenish. Mafics	chlor-		<u>.</u>							
an and a state of the state of			itizad. Some areas show slight rusty alt	eration.	-								
5		1	Mineralization chalcopyrite and speculari	te.							 		
esourc		<u>[</u>	Chalcopyrite occurs both disseminated and	along							 		
		<u> </u>	fractures. Some small veinlets of second	ary E-							 		
	1ii		feldspar noted.	· · · · · · · · · · · · · · · · · · ·							 		
d Petroleu	I 0. F	τ. 	4.0"-7.2" - moderately weathered. Mafics	well							 		
nd Petroleum	Q		bleached or broken down to rusty Fe oxide	s. Chalco-							 		
<u></u>	R		pyrite occasion on minor fractures and diss	minated.									
10 US US	N		7.2'-9.7' - Mafics chloritised, slightly	bleached.							 		
ines A			Mineralization mainly pyrite with minor c	halcopyrite.							 		
e Š	ĝ		9.7"-12.3" - Fiarly fresh Skeena Silver.	Unminer-							 		
			alizad.								 		
		,	12.3" - 19.6" - Moderately altered Skeena	Silver			h				 		
			with chalcopyrite disseminated and on fra	ctures.									
			Mafics chloritized, feldspars cloudy. Mo	derately					· · · · · · · · · · · · · · · · · · ·		 		
			bleached appearance.										

, " c			KENNCO EXPLORATIONS, NECOLIESCHERCLERICE	HOLE No.	PN 1 cent^ed Hole No.					
	EAST. Elev. Azimi	ATION	DIAMOND D	DIAMOND DRILL RECORD						
A-1M-MP-856		r		2* /		-			<u> </u>	
	FROM	то	DESCRIPTION	SAMPLE NO.	SAMPLE	то то	WIDTH	ASSAYS	AVERAGE	
			19.6'-12.5' - Similar to above with little or no			·3-				
			chalcopyrite and some disseminated specularite.							
			22.5"-26.3" - Similar slightly chloritized Sheen							
			Silver with discuminated specubarite and discen.							
			chalcopyrite. Chalcopyrite on fracture at 24.3							
			24.3"-27.1" - Slightly chloritized Steens Silver			_				
			granodicrite with no mineralization.							
			27.1*-30.0* - Slightly chloritized Steens Silver							
			with chaloopyrite on fractures about 5" apart.							
			30.0"-33.0" - Chloritized and slightly altered						_	
		 	Skeena Silver. Mineralization pyrite and minor							
			chalospyrite dissem. mainly 30.0-31.3'. Also	_						
			pyrite and minor chaloopyrite on fracture at 32.	*						

and 31.2"

KENNCO EXPLORATIONS (WESTERN) LIMITED	
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DIAMOND DRILL RECORD

PN 2 HOLE No. July 13, 1959 STARTED. July 14, 1959 FINISHED PURPOSE ...

ELEVATION	
AZIMUTH	

128 + 78H 55 + 88W

Gnawed Mountain - Minex Sption PROPERTY

Claim IDE No. 7

COLLAR

NORTH.

EAST...

90* hipe

				SAMPLES			ASSAYS		AVERAGES		
	FROM	то	DESCRIPTION	SAMPLE NO.	FROM	то	WIDTH	Core	recovered	ā Rec.	
	0*	9 *	Overburden and weathered rock.					23*0	· · · · · · · · · · · · · · · · · · ·	74%	
	344	40*	Skeena Silver granodiorite. Mafics chloritised &	k			-		+		
			alightly bleached. Feldspars cloudy and often								
			greenish. Some fracturing at steep (60 [±]) angles								
			Chalcopyrite noted, disses, and along fractures.	•							
e s			Some disser. specularite also noted.								
o			3'-13.3' - Fairly fresh Skeens Silver granodiori								
of Resources	REPOR		Mafics slightly chloritized, feldspars slightly								
			greenish. No mineralization.			···· ··					
	ENT		15.3*-24.9* - Eleached Skeena Silver, remaining	·							
partm Petro			mafics chloritized. Disaminated chaloopyrite								
and P	SESSIM		common. Many fine fractures dipping 45°at from								
es ar	N S		23.0° to 23.8°. Chalcopyrite on fracts. here.								
Mine			24.8" a 1/4" band of chalcopyrite along a fract.								
	0 Z		dips 55°. Occasional minor specularite.			·					
			24.9"-25.8" - Skeena Silver with dissem. dheloop		+			<u> </u>			
			Mafice chloritized; feldspars high in orthoolase						-+		
			may be secondary.		1			··			

COL	LAR
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NORTHWESTERN EXPLORATIONS LIMITED

HOLE NO. PN 2 cont'd

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-	• 、	⊸.	NORTH
			EAST
			ELEVATION
			AZIMUTH
			DIPS

DIAMOND DRILL RECORD

PROPERTY Gnawed Mountain - Minex option

STARTED FINISHED PURPOSE

A-1M-MP-856

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	ROM	то	DESCRIPTION	SAMPLES				ASSAYS				AVERAGES		
FI	ROM	то	DESCRIPTION	SAMPLE No.	FROM	Ţ	W1DTH							
			25.6-330" - Slightly bleached Skeena Silver											
			granodiorita. Mafica chloritizad, some dissom.					ļ						
			chalcopyrite (spotty) and specularite. Also some					- - - -						
			chalcopyriteon fracts. A 3/4" band of chalcopyr	te										
			occurs at 29.5' disping about 50°											
			38.6-34.8" - Moderately bleached chloritised											
			Skeene Silver. Chalcopyrite occurs mainly or											
			entirely on fracts. Fracturing is common, inter-											
			secting core at 46-55°.							-				
			A few of these fracts. carry chaloopyrite. These		8					······································				
			are early, steep (45-65°) and have some mylonite	•										
			The later fracts. are flatter (30-45*) more com			\ _	+							
			(down to 1/8" apart) and are filled with soft,						- <u>-</u>		<u> </u>			
			white rejerial - possibly carbonate.											
			34.8*-40* - similar to above but generally						•					
			lacking the mineralized fracts. One wide $(1/2'')$								 			· · · · · · · · · · · · · · · · · · ·
			band of chalcopyrite occurs at 39.6' with myloni	te.										
			With this hand there is about 2" showing dissen.											
			chalcopyrite above it. Dip of band 55*											

Kupach	2	9	o
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80+752

234404

90.*

KENNED EIPLORATIONS, (MESTERN) LINITED

DIAMOND DRILL RECORD

PROPERTY Canned Hountain - Miner Option

HOLE No.	25 3
STARTED.	Angast3, 1959
FINISHED	Angust 7, 1959
PURPOSE.	

A-1M-MP-856

COLLAR

NORTH.

AZIMUTH

ELEVATION

EAST ...

SAMPLES ASSAYS AVERAGES Care FROM то DESCRIPTION Care reast. then. 1Cu 1Mo SAMPLE NO. FROM ŢΟ 0.12 85.2 0.01 63.9 57 5.01 10# Cuertarden ABOL . 52 et. 8.01 Bethsaida granodiorite - moderate bleaching of 101 159 5.0* 0.13 A161 34 75.0 0.01 202 5.0* 0.17 mafius, Contains benatite, bernits and very minor 157 1263 0.08 5.0* 8.01 207 25/ 110 chelocovrite. Some of chalocovrite is along long 0.13 0.01 5.0 25 307 fracts., suggesting a later origin. 1235 0.16 2. 5.0* 5.0"-7.7" - moderate weathering, with light brown 302 33* 1264 S 8 h 407 5.0 0.12 0.01 397 limonite formed. Also a few short lengths of this 1207 S 0..08 0.01 5.0 1208 430 450 2 to 12.0* Ó θ 2 ĔĎ R оf Г 5.01 8.21 (S) 50* 9.02 5.5"-10.6" - fairly intense bleaching of mafies 1203 eum Z -5.0" 0.15 0.01 550 A210 597 C also at 32.9 -44.2, 33.0 - 75.0. ō ENT etrol Ĕ 5.0* 0.14 55* 0.01 71.4*-75.0* - considerable frusturing commuted 4211 60* par Sin R Ā 0.19 0.03 1019 697 65" 5.0* with quarts, some tournaline and very misor Ø A and Δ 12.1 5.0" 9,32 0.91 4213 **45**# 704 (J) chalcopyrite. - A in 4 65 5.0* 0.21 0.07 ALLA 70 750 The state of the second of the second second second second second second second Min 2 54.4 - minor bornite on fracture surface 51.0-32.0 - core ground End of hale at 75*

AM 34 AM 33 A 11 100 AM AM 9 35 AM 10 AM 39 3 AM 40 A M 38 A M 37 # AM AM 8 7 -----8 105 11 A ? AM M 5 FR L 128 N 100 3 10 ALBONA IN - 42 - 510 510 510 510 510 200 510 1200 210 210 210 210 210 210 1200 0. L 104 N 20100 OF X 850 860 810 810 105 18 105 OF 19: 1 140-180 680-180 IDE L 72 N 10 : AM 13 00 135 9 A M 12 39. 7 1 30 1 24 21 11 SOIL SAMPLE RESULTS 6 TOTAL COPPER (P.P.M.) PLATE 286 DATE SEPT. 17-1959 DRAWN BY R.S. SCALE REVISED BY DATE

