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PHONE 235-496:

H. D. CARLSON, PH. D., P. ENG.

CONSULTING GEOLOGIST 110 MARTIN STREET PORCUPINE, ONTARIO. PON 1CO

GEOPHYSICAL REPORT

ON

A VERTICAL LOOP ELECTROMAGNETIC SURVEY

OF

HUNKIN CLAIMS

IN

WORK TOWNSHIP

PORCUPINE MINING DIVISION

DISTRICT OF COCHRANE

RECFWED

By: H.D. Carlson Ph. E., P. Eng. Consulting Geologist.

MAY 1 0 1982

MINING LANDS 5.

H. D. CARLSON, PH. D., P. ENG. CONSULTING GEOLOGIST 110 MARTIN STREET

PORCUPINE, ONTARIO. PON 1CO

INTRODUCTION

This report describes a geophysical survey (V.L.E.M.) which was conducted over three (3), unpatented mining claims located in Lot 3, Concession V1, Work Township, Ontario. These claims are described as follows:

P.554176-N.W. $\frac{1}{2}$, N $\frac{1}{2}$, Lot 3, Conc. V1, Work Township. P.554185-S.W. $\frac{1}{2}$, S $\frac{1}{2}$, Lot 3, Conc. V1, Work Township. P.554186-N.E. $\frac{1}{2}$, S $\frac{1}{2}$, Lot 3, Conc. V1, Work Township.

In 1980 and 1981 these claims were surveyed by certain geophysical techniques (magnetometer and horizontal loop electromagnetic methods) and the results of this work are described in a report by K.H. Darke, P. Eng., dated March 20, 1981, which was submitted to the Ontario Ministry of Natural Resources for assessment work credit, and is on file in the Ministry offices. In his report Darke deals with such aspects and attributes of the subject claims (in considerable detail) as Location and Access, Previous Work, and Geology, and it would appear to

VERTICAL LOOP ELECTROMAGNETIC SURVEY

A grid of north-south-trending picket lines had been established previously on the property with a line spacing of 100 metres and survey stations set up at 25 metre intervals. A grid of north-south-trending picket lines had been ine instrument operators were Guy Thibeault and assistants of Timmins, Ontario. The instrument used was a Crone (CEM) vertical loop with an operating frequency of 1830 Hz. A number of weak to very weak cross-overs were indicated by the survey, and the locations of these are noted below:

a. 38S	L21W -	Sta. 1262S
ca. 62S	L22W -	Sta. 1275S
a. 2885	L22W -	Sta. 1462S
a. 300S	L23W -	Sta. 1362S
a. 313S	L23W -	Sta. 1487S
a. 862S	L24W -	Sta. 1350S
	ca. 62S ca. 288S ca. 300S ca. 313S	ta.62SL22Wta.288SL22Wta.300SL23Wta.313SL23W

The great majority of these are very weak with broad shoulders of very low amplitude, and it is doubtful that they represent genuine, sub-surface, bedrock conductors. Only one of the above cross-overs might be considered a possible candidate for further investigation, i.e., that at Sta. 62S on L 23W; here the responses are somewhat stronger, and this possible bedrock conductor lies on the northwest flank of a regional northeast-trending magnetic feature, which is roughly parallel to known stratigraphic strike-lines in the area. Consideration might be given to testing this cross-over, and its environs, by means of a deep-penetrating, high-resolution technique, such as with the Crone P.E.M. instrument.

Respectfully submitted

Porcupine, Ontario April, 1982

H.D. Carlson, Ph.D., P. Eng., Consulting Geologist.



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1983 02 25

Mining Recorder Ministry of Natural Resources 60 Wilson Avenue Timmins, Ontario P4N 287

Dear Sir:

Re: Geophysical (Electromagnetic) Survey on Mining Claims P 554176 et al in the Township of Wark. 42A/HVF

The Geophysical (Electromagnetic)Survey assessment work credits as shown on the attached statement have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours very truly,

E.F. Anderson Director Land Management Branch

Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3

Phone: 416/965-1380

A. Barr:jh Encls.

cc: Peter G. Hunkin Timmins, Onterio

> H.D. Carlson Porcupine, Ontario

> Resident Geologist Timmins, Ontario



File					
File 2	•	4	7	5	4

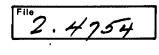
1983 02 25

Recorded Holder Peter G. Hunkin **Township or Area** Wark Twp. Type of survey and number of **Mining Claims Assessed** Assessment days credit per claim Geophysical Electromagnetic 20 days P 554176 554185-86 Magnetometer _____ days Radiometric _____ days Induced polarization ______ days Section 86 (18) _____ days Geological _____ days Geochemical _____ days Man days 🗌 Airborne 🗖 Special provision Ground 🔲 Credits have been reduced because of partial coverage of claims. Credits have been reduced because of corrections to work dates and figures of applicant. Special credits under section 86 (15a) for the following mining claims No credits have been allowed for the following mining claims not sufficiently covered by the survey Insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 86(18)-60:



Geotechnical Report Approval



Mining Lands Comments

				
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Fo: Geophysics	mpl			
Comments	Mr. Barlow.			<u> </u>
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Approved	Wish to see again with corrections	Date -	Signature	- Ql
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		Date/	Signature	- QI
Го: Geology - E		Date	Signature	- QI
Го: Geology - E		Date	Signature	- QI
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1982 05 19

Mining Recorder's Office Ministry of Natural Resources 60 Wilson Avenue Timmins, Ontario P4N 287

Dear Sir:

We have received reports and maps for a Geophysical (Electromagnetic) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims P 554176 et al in the Township of Wark.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours very truly,

E.F. Anderson Director Land Management Branch

Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3 Phone: 416/965-1316

J. Skura/amc

- cc: Mr. Peter G. Hunkin Timmins, Ontario
- cc: Mr. H.D. Carlson Porcupine, Ontario



In the matter of mining claims:

P 554176 P 554185 P 554186

in Wark Township

On consideration of an application from the recorded holder, <u>Peter G. Hunkin</u> under Section 77 Subsection 22 of The Mining Act, I hereby order that the time for filing reports and plans in support of <u>Electromagnetic</u> assessment work recorded on <u>January 26</u> 19_82 be extended until and including <u>May 10</u> 1982....

May 10, 1982

Copies: P. Hunkin Timmins, Ontario

> Mining Recorder Timmins, Ontario



Signature of Director, Land Management Branch



waiting for intersection

P. 554176

Ministry of Natural Resources

Notification of recording

of assessment work credits

RECEIVE

FEB 2 1982

MINING LANDS SECTION

Lands Administration Branch Mining Lands Section Ministry of Natural Resources Room 1617, Whitney Block Queen's Park, Toronto M7A 1W3

Date of recording of work: _	January 26, 1982	
Recorded holder:	Peter G. Hunkin	
	P. O. Box: 2201	·····
Address:	Timmins, Ontario	

Township or Area: WARK TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining claims
Geophysical Electromagnetic20day	P-554176 P-554185 ~ P-554186 ~
Magnetometerday	S
Radiometricday	5
Induced polarizationday	5
19 حر Section ﷺ (19) day	5
Geologicalday	s
Geochemicalday	S -
Man days 🗌 🛛 Airborne 🗆	
Special provision 🔀 Ground 🔀	

Notice to recorded holder:

- XX Survey reports and maps in duplicate be submitted to the Lands Administration Branch, Toronto within 60 days from the date of recording of this work.
- Reports and maps are being forwarded to the Lands Administration Branch with this letter.

Regional Mining Recorder c.c. Peter:: G. Hunkin

april 20/12

LA. 065

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				PORCUP	INE MINING DIVISION
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Date Spr	22/	8.2	S	ignature of Recorded	Holder or Agent
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2. That the	annexed rep	ort is true.	\wedge		
Dated TAN. 2	22,	. 19 8.2.	Jan	Signature	

THE PENALTY FOR MAKING A FALSE STATEMENT IN THIS REPORT AND/OR CERTIFICATE IS \$500. OR SIX MONTHS IMPRISONMENT OR BOTH

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May 5/82

Lands Administration Branch Mining Lands Section Ministry of Natural Resources Room 1617, Whitney Block Queens Park, Toronto Ont. M7A 1W3

Dear Mr. Mathews:

Re: Prosser Wark Tsp. olaim numbers P554176, P554185, P554186. N/O P.G. Hunkin.

Due to a delay in the engineers report, I now request an extension on the subject claims from March 25/82 to May 10/82, The report is now in my possession and I enclose a copy for your files, accompanied by your FM. 837. I trust this is satisfactory.

Yours Truly,

P.G. Hunkir

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MINING LANDS SLCTION



File_

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GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Su	rvey(s)	Elect	romagnetic		
Township o	or Area	Wark	Twp.		MINING CLAIMS TRAVERSED
Claim Hold	er(s)	Peter	G. Hunkin		List numerically
Survey Con		Guy	Thibault	<u> </u>	D rrhad
•	- /	-	Carlson		
	-		n St. Porcupin		
			-		
			1. 3/82 - Jan. (linecutting to office)	£]/ 0£	
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	S REQUES		Geophysical	DAYS per claim	
			Electromagnetic	20	
	0 days (inc			ł	
	ng) for first		-Radiometric		
survey.	0 days for	eo ah	-Other		
	l survey usi		Geological		
same grid	•	0	Geochemical		
	CDEDITS				
			ion credits do not apply to a etic Radiom		
Magnetome		enter da	ays per claim)		
DATE:		SIGNA	TURE:		
			Author of Re	port or Agent	
Res. Geol		Qualifi	cations	574	
Previous Su	rveys				
File No.	Туре	Date	Claim Hold	er	RECEIVED
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GEOPHYSICAL TECHNICAL DATA

9	GROUND SURVEYS – If more than one survey, s	specify data for each type of survey
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IIC	Instrument V.E.M. CPORE	
NE	v	
IAG	Coil separation	
NO	Accuracy	
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ELECTROMAGNETIC	Frequency1830 Hz	(specify V.L.F. station)
E	Parameters measured	
	Instrument	
. 1	Scale constant	
<u>X</u> E	Corrections made	
GRAVII		
0	Base station value and location	······
	Elevation accuracy	
	Instrument	
	Method 🔲 Time Domain	Frequency Domain
	Parameters – On time	Frequency
M	- Off time	Range
ΠΛ	– Delay time	
IIS	- Integration time	
RESISTIVITY	– Integration time Power	
R	Electrode array	
	•	
	Type of electrode	

INDUCED POLARIZATION



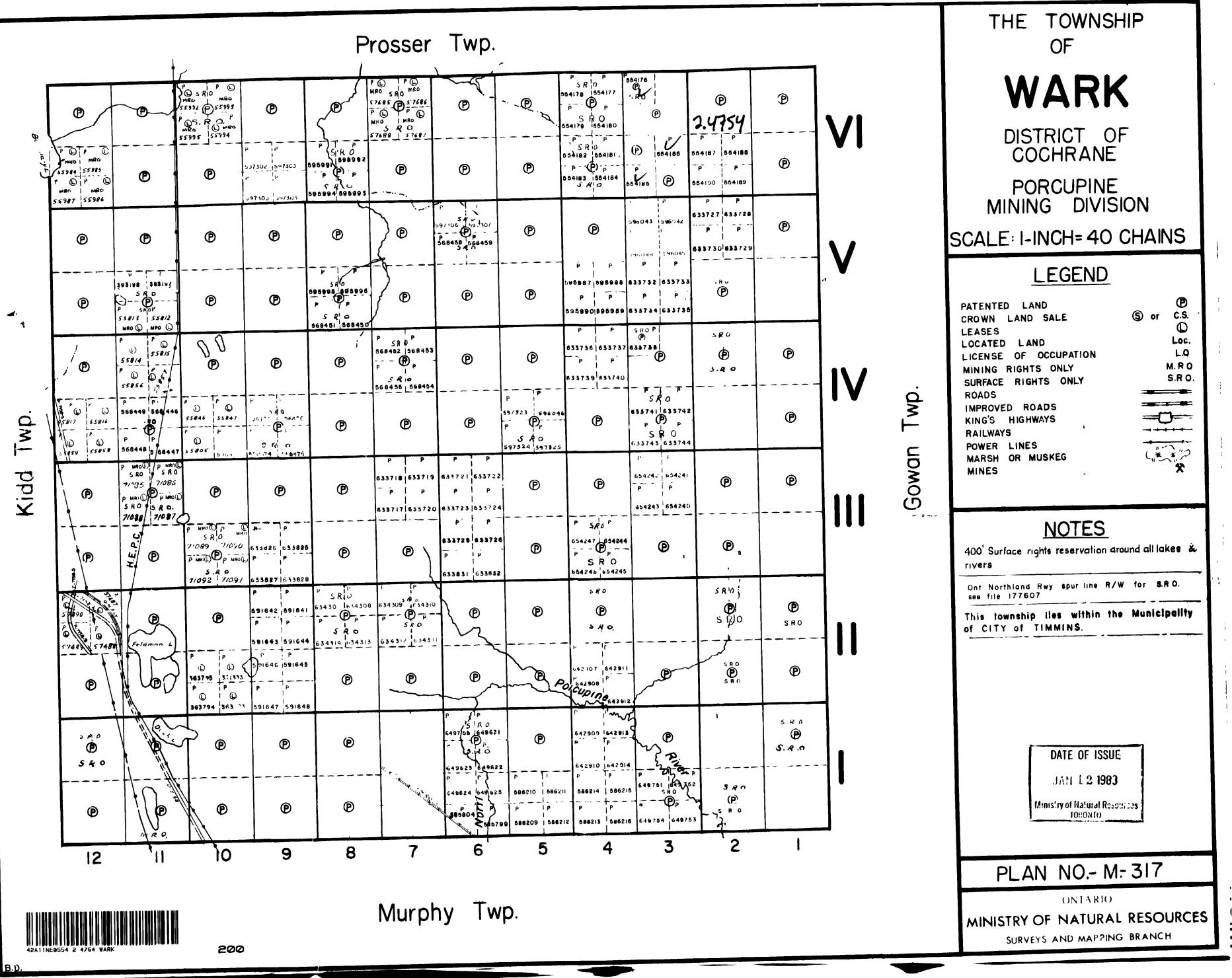
SELF POTENTIAL	
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RADIOMETRIC	
Instrument	
Values measured	
Energy windows (levels)	
	Background Count
Size of detector	-
Overburden	
	(type, depth – include outcrop map)
OTHERS (SEISMIC, DRILL WELL LOGG	ING ETC.)
Type of survey	•
Instrument	
Accuracy	
Parameters measured	
Additional information (for understanding a	results)
AIRBORNE SURVEYS	
Type of survey(s)	
Instrument(s)	
Accuracy	(specify for each type of survey)
Accuracy	
Aircraft used	
Sensor altitude	
Navigation and flight path recovery method	
Aircraft altitude	Line Spacing

Miles flown over total area_____Over claims only_____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

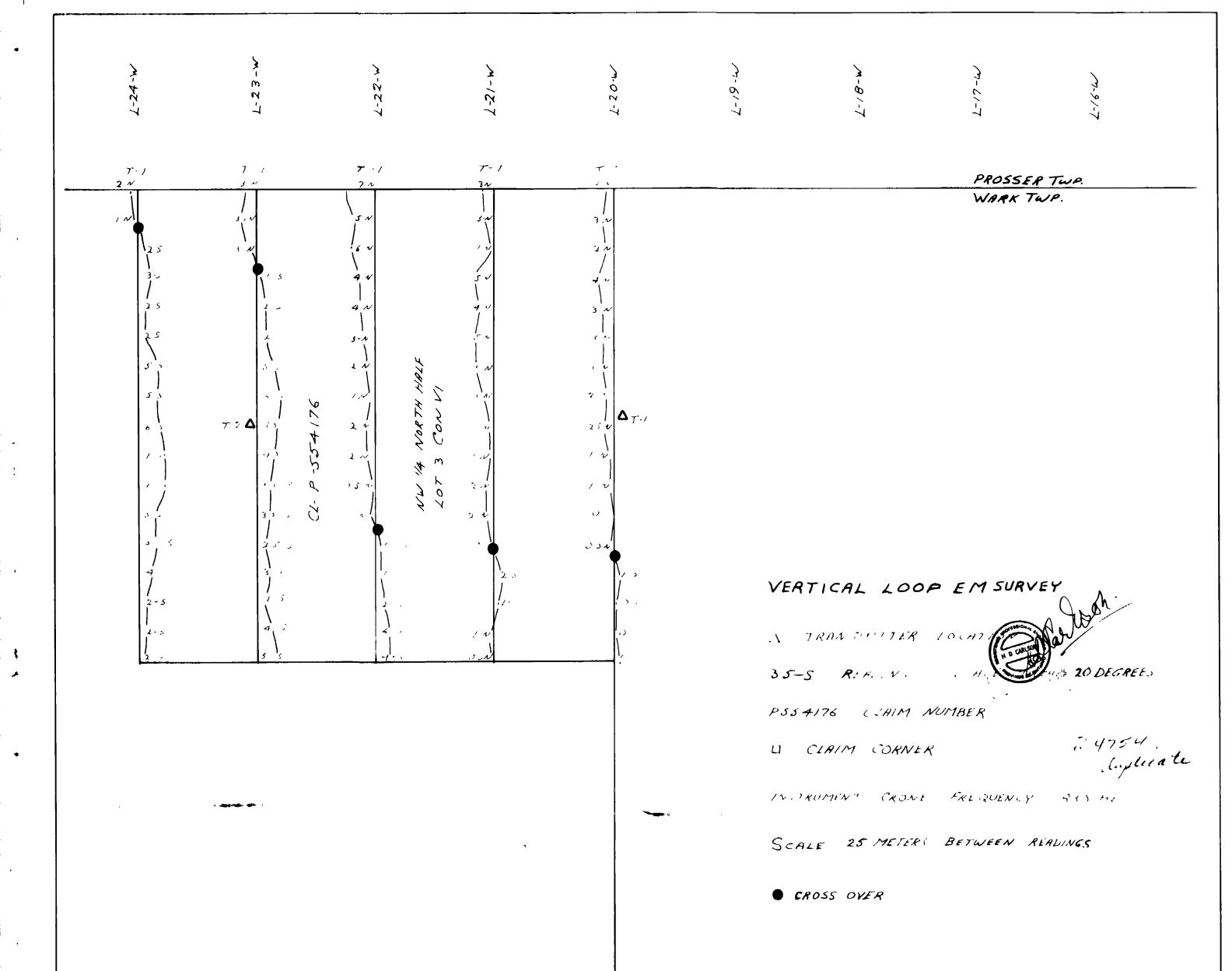
Numbers of claims from which samples taken_____

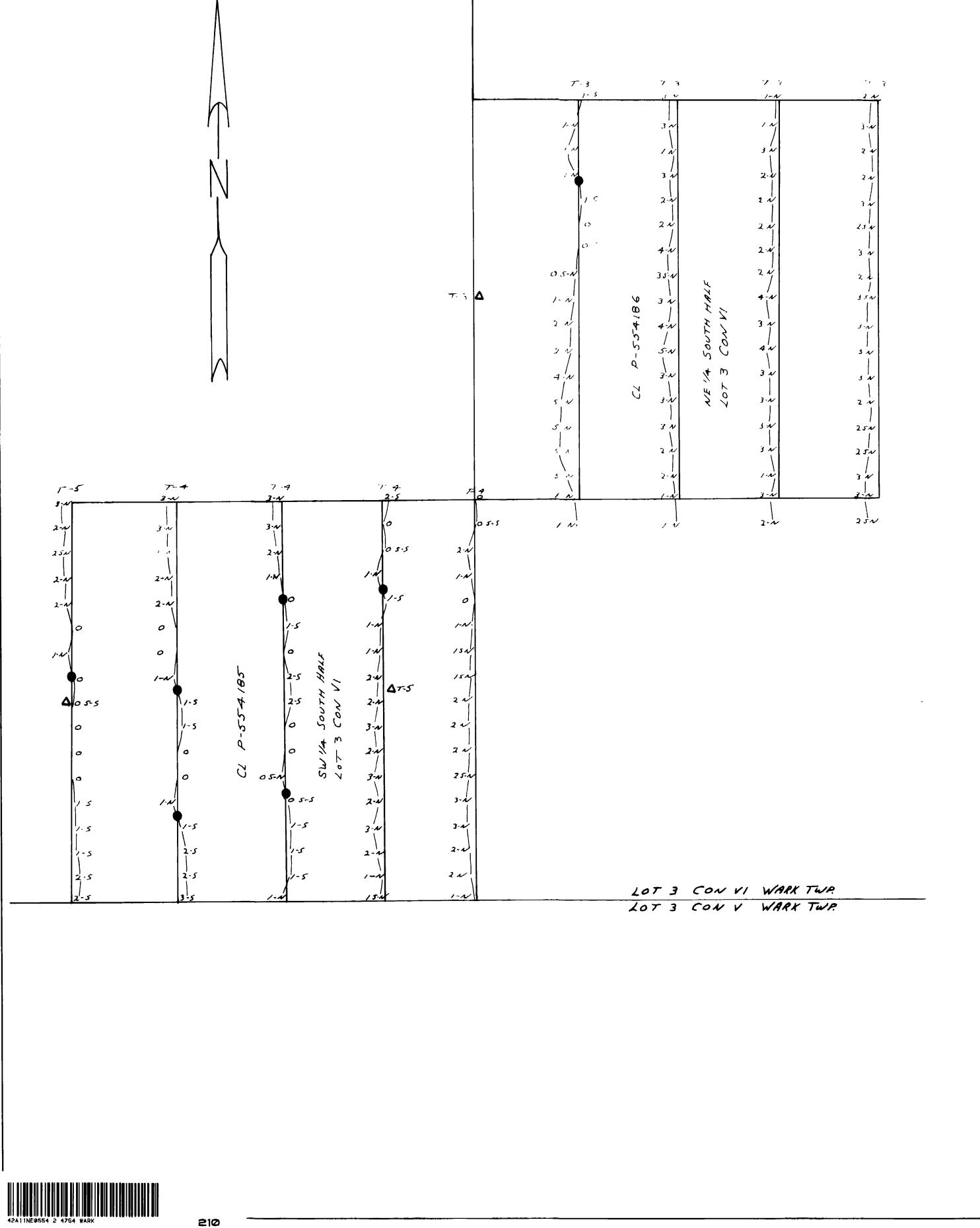
	ANAL VTICAL METHODO				
Total Number of Samples Type of Sample (Nature of Material) Average Sample Weight	Values expressed in: P	METHODS per cent p. p. m. p. p. b.			
Method of Collection	Cu, Pb, Zn, Ni, Co,	Ag, Mo,	As,-(circle)		
Soil Horizon Sampled	Others		• • • • • • • • • • • • • • • • • • •		
Horizon Development	Field Analysis (tests)		
Sample Depth	Extraction Method				
Terrain					
	Reagents Used				
Drainage Development	Field Laboratory Analysis				
Estimated Range of Overburden Thickness			,		
	Extraction Method	<u></u>			
	Analytical Method	· · · · · · · · · · · · · · · · · · ·			
	Reagents Used				
SAMPLE PREPARATION	Commercial Laboratory (tests)		
(Includes drying, screening, crushing, ashing) Mesh size of fraction used for analysis	Name of Laboratory				
Mesh size of maction used for analysis	Extraction Method				
	Analytical Method				
	Reagents Used				
General	General				
• • • • • • • • • • • • • • • • • • •					



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