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MacDONALD CONSULTANTS LTD.

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Final Report

on the

015645

1967 Exploration Work

carried out

on the

AM 1 - 32

Group of Mineral Claims

in the Whitehorse Mining District

held by

Altair Mining Corporation Ltd.

by

MacDonald Consultants Ltd.

H. Wober, P. Eng.

Vancouver

January 26, 1968

TABLE OF CONTENTS

INTRODUCTION

After the first summer exploration program had been completed and reported on August 25, 1967, work was resumed on September 12th. The second exploration program was managed and supervised in the field by Mr. T. Heard of MacDonald Consultants Ltd. and was completed on November 2, 1967.

The author was on the property from September 19th to September 23rd inclusive, on October 12th and 13th and from October 18th to 22nd inclusive.

After the completion of work the camp was prepared for the winter and all equipment stored on the property until a full appraisal of the results was possible.

PROPERTY

An additional 12 claims were staked adjoining the original 20 claims to the North, West and South.

The property was grouped in two groups of claims. The grouping certificates Nos. 2043Q and 2044Q issued by the Mining Recorder, Whitehorse, Y. T. have been received.

The initial exploration work, consisting of a geological, geochemical and geophysical survey has been filed as assessment work on the AM 1-16 claims which are now valid until the 4th of November, 1970.

Assessment work carried out during the second exploration program, namely diamond drilling will be filed for the remaining AM 17 - 32 mineral claims in the near future.

The schedule for the claims including those acquired since the Prospectus is as follows:

Name	Grant No.	Expiry Date
AM 1 - 16 incl.	Y 10929 - Y10944 incl.	November 4, 1970
AM 17 - 19 incl.	Y 20817 - Y20819 incl.	August 31, 1968
AM 20	Y 20824	August 31, 1968
AM 21 - 24 incl.	Y 20820 - Y20823 incl.	August 31, 1968
AM 25 - 26 incl.	Y 20825 - Y20826 incl.	August 31, 1968
AM 27 - 32 incl.	Y 21080 - Y21085 incl.	October 3, 1968

WORK PERFORMED SINCE THE REPORT DATED AUGUST 25, 1967

Picketing of Grid Lines - To the end of the program an additional 15,000 feet of lines were established on the southern part of the grid with picketed stations every 100 feet. These were extensions of lines 12 to 48 inclusive, which were each extended 1,500 feet to the south.

Geochemical Survey - The extended lines 12 to 44 inclusive were soil sampled at each picket station. The samples were assayed for lead, zinc and copper by Bondar-Clegg Ltd. of 1500 Pemberton Avenue, North Vancouver, B. C.

The copper values on the extended grid area were around background, no further anomalous values were encountered. The anomalous copper values found on the original grid were clearly defined and did not show open ends in any direction.

The lead anomaly which was still open to the south on the original grid was defined in its extension to the west and south. However, the results show the southeastern part still open with the higher lead values ranging from 300 to 790 ppm. The high values gradually drop off against a background of less than 100 ppm.

The zinc dispersion pattern coincides with the lead results on lines 20 to 28 south of the southern tie line but does not support the lead anomaly in the southeastern corner of the grid area on lines 8 and 12.

Geophysical Surveys

1. Electromagnetic - The electromagnetic survey, using a Crone EM dual frequency instrument, was extended over the additional grid lines 24 to 48 to further outline the original conductor on lines 40 to 48.

The southern conductive zone has been traced from line 28 to line 48. The same dip angles and low to high frequency ratios were encountered as on the first conductor. A discontinuity occured between lines 24 and 28. This and the discontinuity of the first conductor between line 28 and 32 appear to be caused by the same fault. It appears that the two major conductors are faulted offsets of one original conductive zone.

Both conductors are stratigraphic conductors consisting of graphite schist as was proven by subsequent diamond drilling. Strike and dip of the conductor and the local topography explain the apparent widening of the southern conductor to the west, where larger parts of the graphite schist layer were brought closer to surface by erosion of the overlaying greenstones (chlorite schists).

2. Gravity Survey - Two gravity surveys were carried out. Huntec Ltd. surveyed a part of the original grid area, comprising lines 8 to 20 inclusive from 8 + 00 S to 15 + 00 S and lines 24, 28 from the base line to 15 + 00 S. This survey was done between September 12 and 15, prior to diamond drilling. A copy of the interpretation by Mr. R. K. Watson, P. Eng. of Huntec Ltd. is attached to this report.

The second gravity survey was carried out by J. R. Needham & Associates and covered the whole grid area south of the base line including the extended lines. The results were reviewed by Seigei Associates Limited of Scintrex Ltd.

A data compilation of this survey has not been received to date. An excerpt of the review by Seiglel Associates was given in a letter by Mr. Needham, a copy of which is attached.

Line profiles with the reduced and corrected gravity data were received. The profiles are fairly smooth and no conditions were found which could be regarded as gravity anomalies.

Diamond Drilling - A total footage of 1161 feet of BQ wireline drilling was carried out in 3 holes that were spotted on locations where a combination of EM and geochemical data gave indications of primary drilling targets. The data of the Huntec Gravity Survey were partly taken into consideration.

Logs of the diamond drill holes are attached to this report.

Diamond Drill holes #1 - reached a depth of 380 feet. It intersected graphite schist almost over its entire length with some beds of sheared greenstone and sericite schist. Dragging along the N - S trending fault closeby to the west probably accounts for the great thickness of graphite schist intersected which was found to be of lesser thickness in the other two holes.

Diamond Drill Hole #2 - was drilled to a depth of 375 feet and intersected predominantly graphite schist to a depth of approximately 140 feet from where on the graphite schist is interbedded with increasingly thicker beds of sheared greenstones, sericite schist, argillite and other metasediments of similar composition. This drill hole was to investigate a relative weak trend of a gravity high (Huntec) which striked in approximately the same direction as the conductor (graphite schist) and was supported by a good geochemical lead anomaly downhill from it.

Secondary quartz, cream coloured carbonate, pyrite and in a few places stringers or minor amounts of sphalerite and/or galena were found (at 50 feet, 328feet, 331 feet, 347 feet, 352.5 feet). However, these signs of mineralization cannot be regarded to be the cause for the geochemical anomaly.

Drill hole #3 - was drilled to investigate a local coinciding lead, zinc and gravity high reaching across two lines but did not encounter any mineralization. The gravity high turned out to be most probably caused by a thickening of the underlaying greenstone formation due to drag against the nearby fault.

INTERPRETATION AND RECOMMENDATIONS

The additional geochemical, geophysical work and diamond drilling carried out during the fall of 1967 did not result in any finds of substantial mineralization. However, the interpretation of the geological setting, structurally and otherwise was confirmed and remains favourable for the district.

The northern conductor found by the EM survey was found to consist of graphite schist. The N-S running fault offsetting the conductor appears to be a thrust fault with movement from the east.

The geochemical response for lead and zinc was found to become increasingly stronger to the southeast, downhill and in the footwall portion of the graphite schist east of the above mentioned fault. It remains to be explained why the geochemical response west of the fault offsetting the conductors is so much weaker than east of the fault with practically no anomalous areas shown to coincide with the southwestern EM anomaly.

This plus the facts that traces of lead and zinc mineralization were found in DDH #2 associated with quartz, carbonate and pyrite and the existence of some replacement type mineralization on the neighbouring ground to the east indicate that the southeast extension of the line-grid should be further investigated.

It was observed during the past work on this property that permanently frozen overburden with solifluction of the top layer completely obscure the geology of the bedrock surface. There was for example no indication of the thick layers of graphite schist under only 15 - 20 feet of overburden by pieces of float, although boulders of granodiorite were found on surface from an unknown source.

It is therefore, recommended that the southeastern part of the property in extension of the trend of the geochemical anomalies be further investigated by establishing lines at closer intervals than previously done. The lines should be spaced at 200 foot intervals with soil samples taken every 100 feet.

If the geochemical results are giving further encouragement, they should be followed up by a gravity survey and possibly diamond drilling. The drilling stage, however, can only be recommended and decided on with the geochemical and geophysical data on hand.

Lines 12 to 24 should be resampled and lines should be established in between at 200 foot intervals to confirm and check on the results obtained to date.

The remainder of the claims to the south of the grid area should be covered by reconnaissance soil sampling at a 400' x 400' pattern.

No further work or diamond drilling can be recommended on the remaining part of the existing line grid at the present time, particularly in view of the results of the gravity survey by J. R. Needham and Associates.

The cost for the soil sampling program outlined above would be in the order of $6,000.00 if a small crew can be mobilized from elsewhere in the Yukon. If the results of this work warrant a follow-up by diamond drilling, additional funds of about $15,000.00 would be required.

Respectfully submitted,

MACDONALD CONSULTANTS LTD.

H. Wober

H. Wober, P. Eng.

HW/st

DIAMOND DRILL RECORD

PROPERTY Altair Mining Corporation Ltd. HOLE No. One

DIP TEST		
	Angle	
Footage	Reading	Corrected
	-90°	

Hole No. 1 Sheet No. 1
Section
Date Begun September 23, 1967
Date Finished October 11, 1967

Lat.) Dep.) Line 28, 11 + oos
Bearing
Elev. Collar

Total Depth 380 feet
Logged By H.W.
Claim 1
Core Size BQ Wireline

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
0 - 25 feet	Overburden						
25 - 52 feet	Graphite schist, in places foliated and drag folding,						
	C.A. 70-90°.						
	Blebs of Py at 34 feet (Cubes), 40.6, 38 feet, 44 feet						
	Py associated with Quartz, obviously not in bedding,						
	not of organogenic type, thin calcoreous partings.						
52 - 74 feet	As above, more phyllitic between 55 - 58.						
	Stronger fracturing with calcoreous bands 58 - 60 feet.						
	Core to here fairly broken, 1" Py + SiO_2 at 74 feet.						
74 - 102 feet	As above, C.A. 80-90°, Py seems to occur more in bedding						
	as fine specks of organogenic type.						
	2" Py + SiO_2 at 93.6, ½" folded in bedding at 30° to						
	C.A. at 93.9 feet.						
102 - 123.16	Graphite schist, thin bedded, bedding angle 70-90°,						
	fracturing at 30° to C.A. core fairly broken, little						
	disseminated pyrite in bedding throughout.						
	Calcoreous bands, foliated, some SiO_2 + Pyrite from						
	115 - 119 feet. 3/4" Pyrite band at 119', 30° to C.A.						
	Muddy core from 114 - 115.						

DIAMOND DRILL RECORD

PROPERTY Altair Mining Corporation Ltd. HOLE No. One

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. 1 Sheet No. 2 Lat. Total Depth
Section Dep. Logged By H.W.
Date Begun Bearing Claim
Date Finished Elev. Collar Core Size BQ Wireline

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Rec.			
123.16 - 157	Graphite Schist			15'			
	Core very broken, bedding angle 80 - 90° to C.A.						
	Thin bands + veinlets of SiO_2 conform with bedding and in						
	a few places cutting the bedding at 20-30°.						
	1.2" almost massive pyrite at 144.5 associated with SiO_2						
	½" Py at 148.5						
	Core very broken with more SiO_2 veinlets showing bet-						
	ween 149-155, poor recovery.						
157 - 192	Graphite Schist. Bedding 45-90° to C.A. slight increase						
	in SiO_2 veinlets in bedding.						
187-187.5	Sheared + altered, bleached greenstone, probably former						
	basaltic dykes.						
	Some pyrite associated with SiO_2 in foliated sections.						
192-215	Graphite Schist, core very broken, noticeable increase						
	in quartz bands up to 4" wide.						
195-196.5	Brecciated + sheared Greenstone, some fragments of						
	sericite schist, cemented by carbonate + quartz.						
	1.5" pyrite at 205. 1" SiO_2 at 210.						
215 - 259	As above, bedding angle 45-70°, SiO_2 bands further in-						
	creasing to 243, then a little less again.						
	1' SiO_2 at 238, pyrite associated with SiO_2.						

DIAMOND DRILL RECORD

PROPERTY Altair Mining Corporation Ltd. HOLE No. One

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. 1 Sheet No. 3
Section
Date Begun
Date Finished
Lat.
Dep.
Bearing
Elev. Collar
Total Depth 380
Logged By H.W.
Claim
Core Size BQ Wireline

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
259 - 302	Graphite Schist, strong increase in Quartz bands again, up to 30% SiO_2, especially to 280', some py with quartz, bedding angle 70° to C.A.						
	Some sections foliated, fracture planes at 20-30° to C.A. SiO_2 bands often cut graphite bedding at small angle.						
302 - 343	Graphite Schist some decrease in amount of SiO_2 bands. Core more broken + crumbled. Blebs of Py at 321 in. SiO_2 bedding angle 70-80° less foliation.						
343-380	Graphite Schist, strong increase in SiO_2 bands again, 20-30% of rock. Pyrite associated with SiO_2 throughout, bedding angle 70° from 377' on fine SiO_2 and possibly carb. intergrown with graphite.						
	Pyrite associated with SiO_2 throughout. Also some in graphite beds. Some foliation + fracturing						
	END OF HOLE						

DIAMOND DRILL RECORD

PROPERTY Altair Mining Corporation Ltd.

HOLE No. Two

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. 2 Sheet No. 1

Section

Date Begun October 14, 1967

Date Finished October 17, 1967

Lat.) L-10 @ 11 + 00S
Dep.)

Bearing

Elev. Collar

Total Depth 375'

Logged By H.W. & T.H.

Claim

Core Size BQ Wireline

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
0 - 22	Overburden						
	Graphite Schist. Quite strongly foliated, in places sheared @ 31' it looks like a minor fold filled with quartz between graphite beds. Strong Quartz throughout both as inclusions & as bedded layers. Minor sericite @ 46'.						
	At 50' there is a 4" section of badly foliated and/or brecciated graphite schist shot through with quartz carrying fairly massive pyrite, 1" of which contains sphalerite in crystal form to 1/16".						
60.6 - 75.0	Graphite Schist & alternate bands of Quartz. Very minor pyrite. No definite contact at 75 feet. Grades gradually into following classification						
75 - 81.5	Light grey - green schist. Looks like a sheared greenstone. Contains minor graphite & quartz bands. Sharp contact at 81.5. Somewhat talcose.						

DIAMOND DRILL RECORD

PROPERTY .... HOLE No. Two

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. 2 Sheet No. 2 Lat. .... Total Depth ....
Section .... Dep. .... Logged By ....
Date Begun .... Bearing .... Claim ....
Date Finished .... Elev. Collar .... Core Size ....

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
81.5 - 88.6	Strong graphitic schist section. Strongly sheared in						
	part with intruded quartz carrying minor pyrite at 86						
	and 88 feet.						
88.6 - 91.0	Dark grey, soft and talcose soapstone.						
	Pyrite in blebs and stringers throughout section.						
	Graphite on contact.						
91.0 - 125.0	Graphite schist.						
	99.5 - 101 mainly quartz and cream-coloured carbonate						
	on fractures. Some light green calcium silicate.						
125.0 - 127.0	Dark green, soft, sheared and talcose greenstone.						
127.0 - 129.0	Graphite Schist.						
129.0 - 132.5	Soft, talcose, sheared and altered greenstone						
132.5 - 134.0	Graphite Schist						
134.0 - 135.5	Soft, talcose, sheared and altered greenstone						
135.5 - 144.0	Graphite Schist.						
144.0 - 147.5	Soft, sheared, talcose greenstone. Leached and bleached						
	at hanging wall contact. Soft and muddy. Quartz and						
	cream-coloured carbonate at 145' (1" to 1½")						

DIAMOND DRILL RECORD

PROPERTY .... HOLE No. Two

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. 2 Sheet No. 3
Section
Date Begun
Date Finished

Lat.
Dep.
Bearing
Elev. Collar

Total Depth
Logged By
Claim
Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
147.5 - 151.5	Graphite Schist. Foliated. Thin stringers of green-						
	stone. Numerous quartz stringers both parallel to bed-						
	ding and in fractures at 30° to C.A.						
151.5 - 155.5	Greenstone - as above						
155.5 - 159.0	Graphite schist						
159.0 - 188.6	Dark Green, soft sheared talcose greenstone.						
	Abundant quartz in stringers throughout.						
	Schistosity almost at right angles to Core axis.						
	Pyrite disseminated and along fracture planes.						
	Signs of recrystallization and orientation of dark green						
	hydro silicates along planes of schistosity giving the						
	impression of sedimentary texture 186 - 187 section of						
	graphite schist.						
188.6 - 190.6	Graphite Schist.						
190.6 - 222	Dark grey to black talcose argillite. Thin-bedded.						
	Major quartz with some cream-coloured carbonate from						
	212 - 213.5.						

DIAMOND DRILL RECORD

PROPERTY

HOLE No. Two

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. 2 Sheet No. 4
Section
Date Begun
Date Finished

Lat.
Dep.
Bearing
Elev. Collar

Total Depth
Logged By
Claim
Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
222 - 226	Argillite but increasingly graphitic.						
	Disseminated pyrite associated with quartz in bedding						
	planes. Talcose						
226 - 236	Graphite Schist. Foliated.						
	228.6 - 230.6 quartz section.						
236 - 237	Sheared talcose greenstone						
237 - 243	Graphite Chist. Section of quartz and talcose material						
	from 239 - 241						
243 - 247	Talcose greenstone. Some quartz veinlets						
247 - 265.2	Graphite Schist with abundant quartz and pyrite in section.						
	Bedding 60 - 70° to core axis.						
265.2 - 282	Green sheared, slightly talcose rock.						
	Shearing not as predominate in this section.						
	Abundant quartz and pyrite parallel to bedding and/or						
	Schistosity.						
	4" section of pyrite in quartz. Trace chalcopyrite.						
282 - 302	Dark grey to greenish sl. talcose rock.						
	Rounded quartz grains (speckled appearance)						
	See sample from 292'.						

DIAMOND DRILL RECORD

PROPERTY .... HOLE No. Two

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. 2 Sheet No. 5 Lat. .... Total Depth ....

Section .... Dep. .... Logged By ....

Date Begun .... Bearing .... Claim ....

Date Finished .... Elev. Collar .... Core Size ....

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
282 - 302 (cont)	1" pyrite at 283.5						
302 - 304	Graphitic argillite with quartz in bedding and on						
	fractures.						
304 - 330	Dark grey, slightly greenish argillite. Soft, fairly						
	uniform.						
	318.5 - 319.5 sl. brecciated cemented by quartz and						
	cream-coloured carbonate						
	322.9 - 323.3 as above						
	328 - 328.3 section of abundant pyrite and sphalerite.						
	Parallel to bedding. Some galena crystalls. Matrix of						
	section muddy. (gouge) (?)						
330 - 332	Sl. graphitic thin-bedded argillite. Some Foliation.						
	¼" veinlet of Pbs, Zn, S, quartz and cream-coloured						
	carbonate at 60° to core axis at 331'.						
332 - 345	Sheared and altered bleached greenstone.						
	Possibly former porphyritic basalt 337 - 337.8 brecciated						
	section. Fairly large fragments of greenstone and						
	graphite schist cemented by quartz.						

DIAMOND DRILL RECORD

PROPERTY ______ HOLE No. Two

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. 2 Sheet No. 6
Section
Date Begun
Date Finished

Lat.
Dep.
Bearing
Elev. Collar

Total Depth
Logged By
Claim
Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
332 - 345 (cont)	Blebs pyrite.						
	at 345' - 3" of graphite schist.						
345 - 375	Slightly sheared green gabbroic rock 347.2 - 347.4						
	veinlet of cream-coloured carbonate with galena and						
	black sphalerite, some quartz, trace chalcopyrite.						
	Sulphides evidently associated with carbonate.						
	@352.5 sphalerite in carbonate stringer.						
	END OF HOLE						

DIAMOND DRILL RECORD

PROPERTY Altair Mining Corporation Ltd. HOLE No. Three

DIP TEST		
	Angle	
Footage	Reading	Corrected
Collar	-90°	

Hole No. 3 Sheet No. 1

Section

Date Begun October 20, 1967

Date Finished

Lat.) L 24 @ 15 S
Dep.)

Bearing

Elev. Collar

Total Depth 406

Logged By H.W. & T.H.

Claim

Core Size BQ Wire Line

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
0 - 17	Overburden						
17 - 21	Quartz vein with fragments of graphite schist and green-stone. Sl. calcareous.						
21 - 22.8	Graphite SChist. Bedding at 55 - 60° to core axis. FeS_2 on bedding planes.						
22.8 - 44	Sheared greenstone, slightly talcose, limonite on fractures.						
44 - 74	Graphitic schist. Numerous fine bands of quartz both as alternate bands in bedding and as fracture fillings. 4" Quartz inclusion at 52'; 2" at 54'; 2" at 54.5 and 1' with fine bands of graphite from 62.5 - 63.5'. Minor pyrite associated with quartz at 68' graphite is quite dense with minor diss. FeSz. at 69', 1" FeSz in quartz and pink carbonate At 74' (contact) ½" pyrite in quartz, also some coarse grained pyrite and limonite staining.						

DIAMOND DRILL RECORD

PROPERTY Altair Mining Corporation Ltd. HOLE No. Three

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. 3 Sheet No. 2
Section
Date Begun
Date Finished

Lat.
Dep.
Bearing
Elev. Collar

Total Depth
Logged By
Claim
Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
74 - 88	Light to Dark grey fine grained, slightly talcose,						
	sheared greenstone. Minor FeS_2 Quartz and some cal-						
	careous material along fractures.						
88 - 96	As above but with a predominate amount of quartz. Some						
	calcareous material at 91! Some black sheared chlorite						
	schist.						
96 - 100	Dark grey to black greenstone. Speckled appearance due						
	to small but numerous quartz blebs. Metacrysts						
	(Argillaceous?)						
	Sharp contact at 100 feet (see sample)						
100 - 103.5	Dark grey to black talcose chlorite schist.						
	Bedding at 60° to C.A.						
103.5 - 105	Pred. quartz and carbonate cementing fragments of green-						
	stone and/or chlorite schist.						
105 - 107	Speckled greenstone as 96 - 100.						
107 - 114	Dark greenish black chlorite schist.						
114 - 116	Graphitic schist. Minor pyrite associated with quartz.						
116 - 117	Pred. quartz with blebs of talcose greenstone and minor						
	graphite.						

DIAMOND DRILL RECORD

PROPERTY Altair Mining Corporation Ltd. HOLE No. Three

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. 3	Sheet No. 3	Lat.		Total Depth	
Section		Dep.		Logged By	
Date Begun		Bearing		Claim	
Date Finished		Elev. Collar		Core Size	

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
117 - 150.5	Grey-green Sl. talcose, greenstone						
	Major quartz at 123', 125', 6" at 135', bands at 137.						
	These sections are inclusions in the bedding for the						
	most part.						
150.5 - 164	Light grey-greenish chlorite schist. Fine matrix						
	platey grains of chlorite and metacrysts containing or						
	enclosing grains of quartz and pyrite 2" pyrite in quartz						
	ant 158.5						
164 - 165.5	Dark green gabbroic rock						
165.5 - 178	As 150.5 - 164						
	166.5 - 170 very badly broken						
178 - 181	Predominatly quartz. Brecciated zone with fragments of						
	graphite cemented by quartz. Minor FeS_2						
181 - 185	1.2' of core. Badly broken talcose greenstone. Light						
	grey-green.						
195 - 190.5	185 - 186 pure quartz. The remainder of section is a						
	light greyish green very badly broken talcose and very						
	soft rock.						
	Predominately quartz.						

DIAMOND DRILL RECORD

PROPERTY Altair Mining Corporation Ltd. HOLE No. Three

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. 3 Sheet No. 4 Lat. Total Depth
Section Dep. Logged By
Date Begun Bearing Claim
Date Finished Elev. Collar Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
190.5 - 195.5	Speckled (quartz metacrysts formed by replacement)						
	talcose greenstone?						
195.5 - 202	Dark greyish green chlorite schist.						
202 - 211	Sl. foliated alternate black and light greenish-						
	brown-grey chlorite sbhist						
	203 - 204.5 light greenish stained (chlorite?) Quartz						
	with minor FeSz.						
	There is some pyrite dissemiation throughout and in						
	the bedding.						
211 - 212	Quartz containing chloritic frags.						
212 - 225	Badly broken section. Talcose, sheared grey-green						
	chloritic schist.						
	1" quartz at 215 and 215.6 and 216						
	2" quartz at 222, 4" brecciated quartz at 223'						

DIAMOND DRILL RECORD

PROPERTY Altair Mining Corporation Ltd. HOLE No. Three

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. 3 Sheet No. 5 Lat.
Section Dep.
Date Begun Bearing
Date Finished Elev. Collar
Total Depth
Logged By
Claim
Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
225 - 231	6" fragmentary quartz from 225.5 - 226.						
	Rock type is an alternate H. brown and black banded						
	argillite. 1/8" of fine grained pyrite in bedding.						
231 - 233	Dark green fine grained andesitic flow.						
	Sl. schistose. 4" banded argillite at 232.						
233 - 251	Banded argillite. Gets more siliceous towards 251.						
251 - 267.5	Approximately 40% quartz through a banded argillite.						
	Quartz is late as banding appears as fragments in places.						
	Minor FeSz in the quartz. Some frags of green to black						
	chlorite.						
267.5 - 279	Sericite-chlorite schist. Quartz stringers						
279 - 363	Alternating schist and argillites.						
	311.5 - 317 very banded argillite at 322, light grey						
	greenish chlorite schist., 1 foot section, minor coarse						
	FeS2 at 335.5 2" graphite schist.						
	336 - 336.5. Very gougy section.						

DIAMOND DRILL RECORD

PROPERTY Altair Mining Corporation Ltd. HOLE No. Three

DIP TEST		
	Angle	
Footage	Reading	Corrected

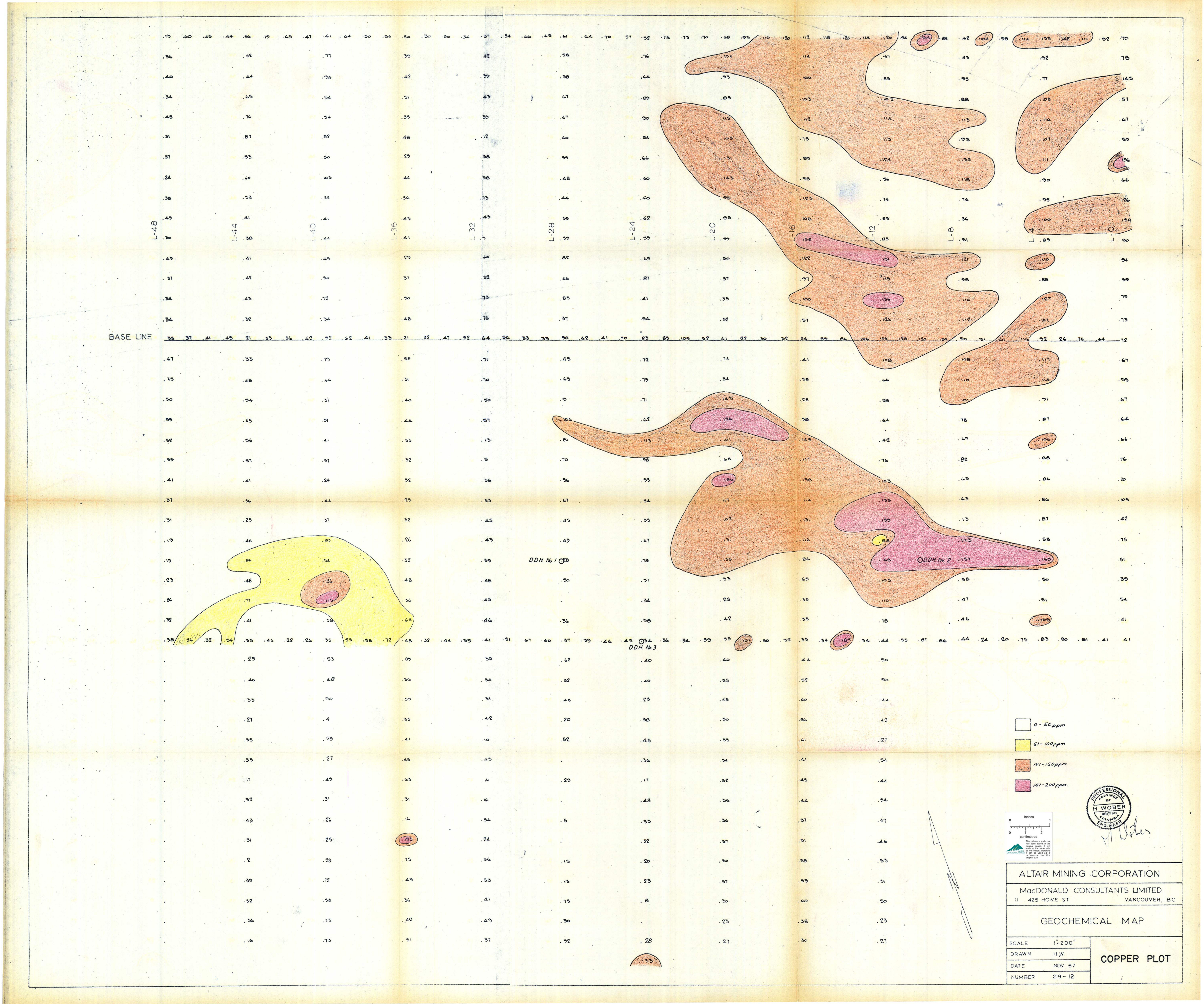
Hole No. 3 Sheet No. 6 Lat. Total Depth

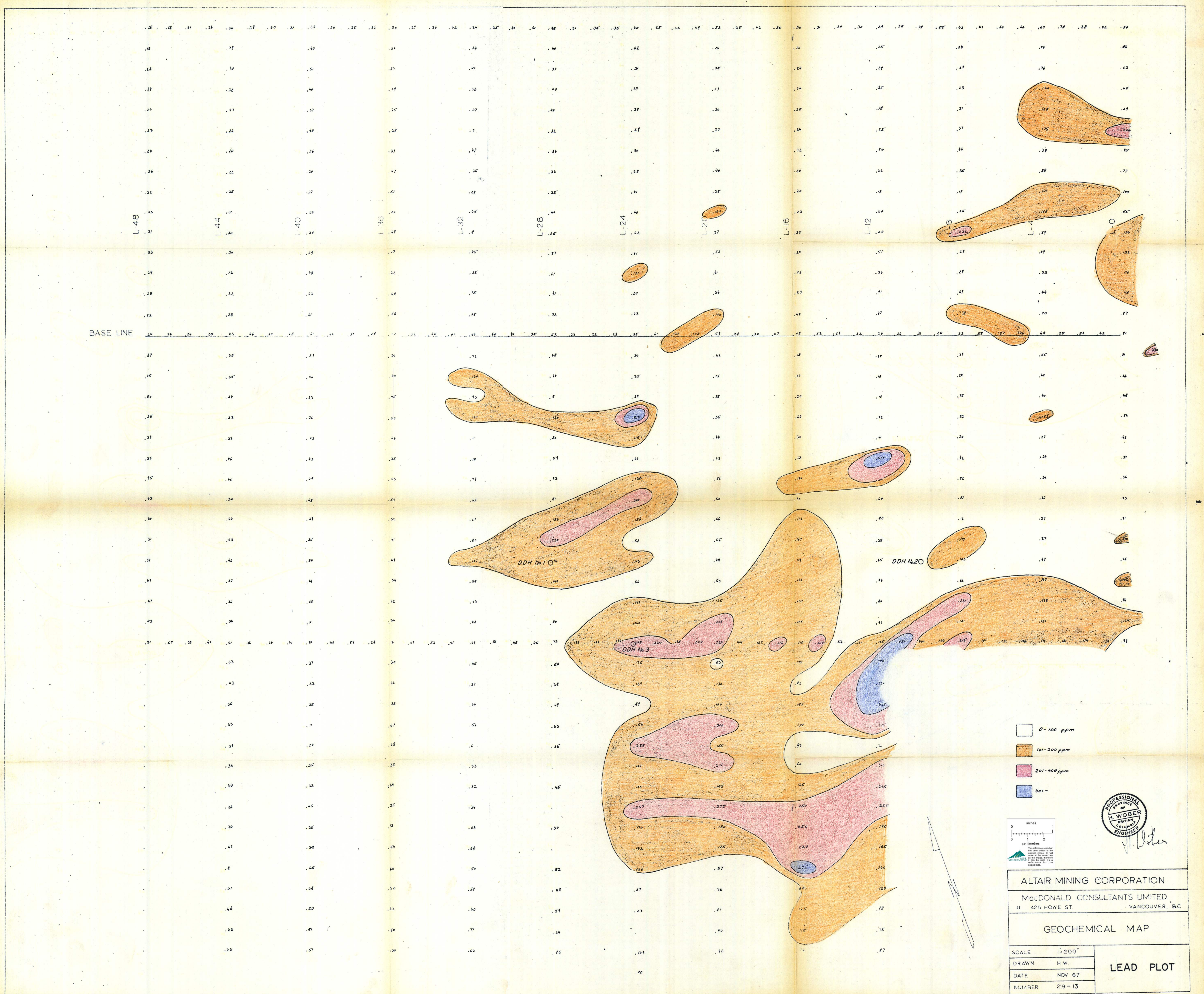
Section Dep. Logged By

Date Begun Bearing Claim

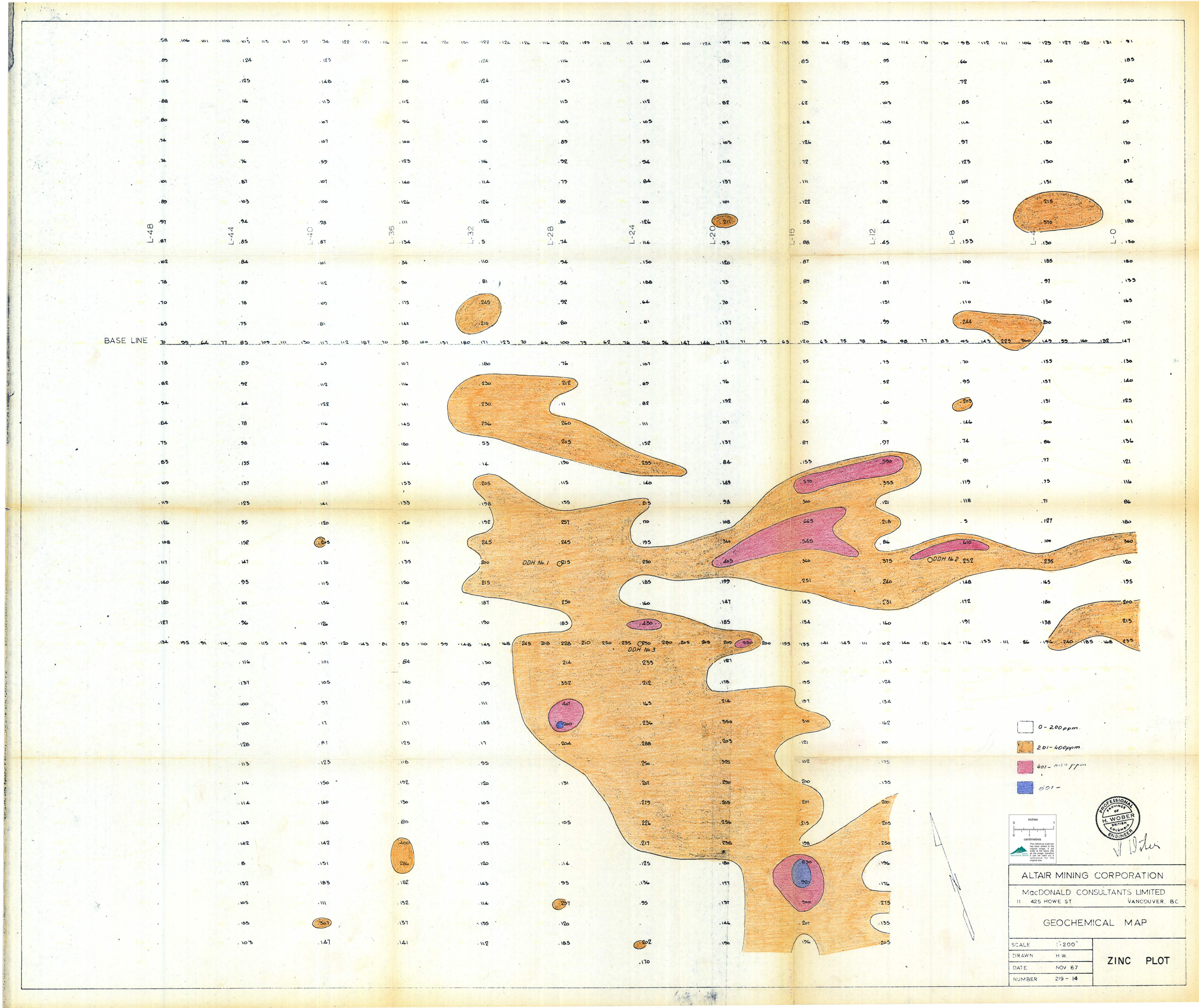
Date Finished Elev. Collar Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
279 - 363 (cont)	Talcose 339 - 353. Dark grey-black chlorite schist.						
	353 - 361. Sl. banded argillite. Specks of Cu Fe. S_2						
	in quartz.						
	361 - 363 80% quartz with frags of dark green-black						
	chlorite. Minor FeS_2/						
363 - 400	Argillaceous. Sheared and somewhat talcose in part.						
	Minor FeSz. Sl. graphitic from 396 on with 4" of dense						
	graphite at 400.						
400 - 406	Sl. banded argillite. Some minor FeS_2 on fractures.						
	4" banded graphite at 404.						
406	END OF HOLE.						
	19' BX Casing left in hole.						

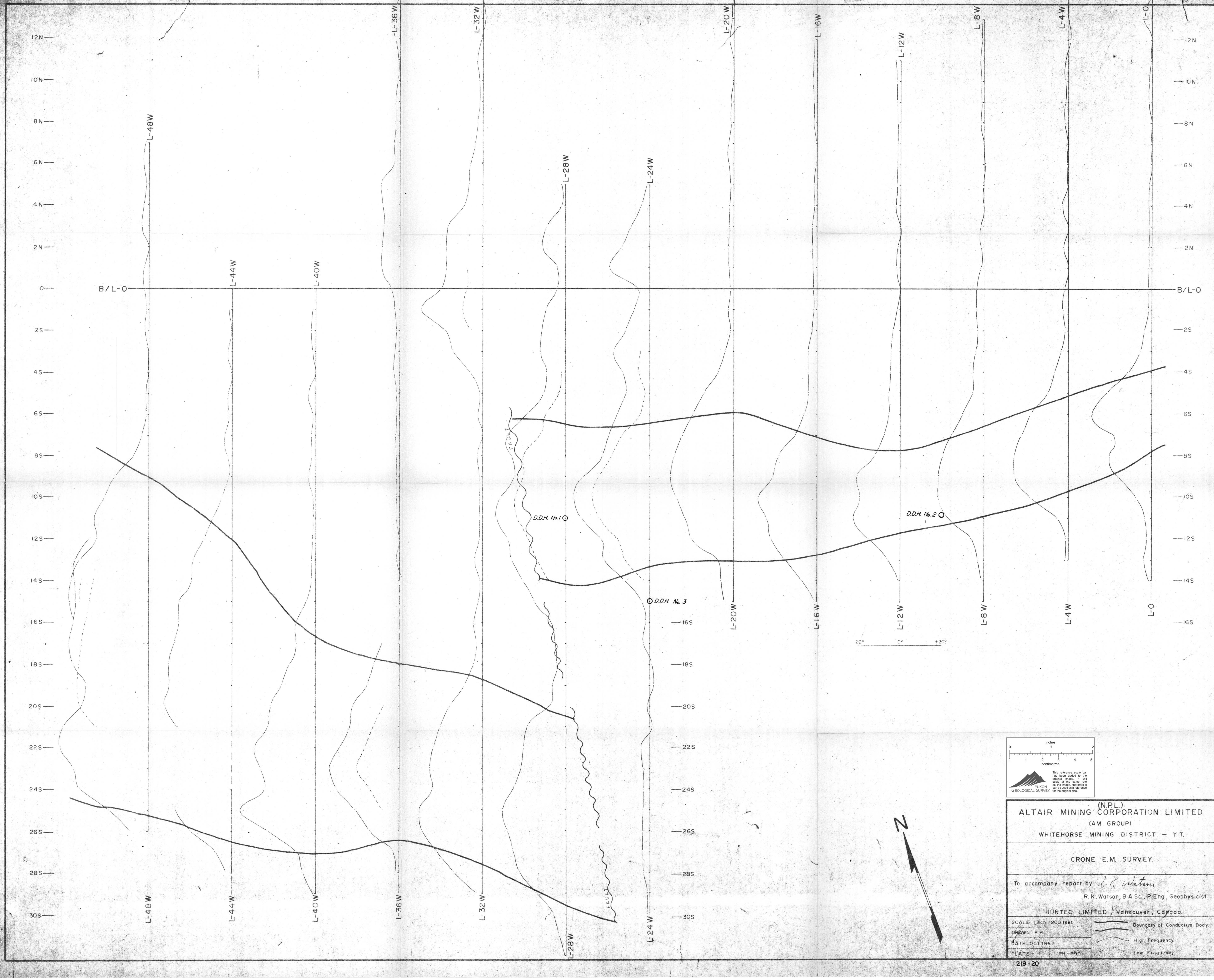

BASE LINE
L-48
L-44
L-40
L-36
L-32
L-28
L-24
L-20
L-16
L-12
L-8
L-4
L-0
DDH No 1
DDH No 2
DDH No 3
0 - 50 ppm
51 - 100 ppm
101 - 150 ppm
151 - 200 ppm.
PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
H. WOBER
ALTAIR MINING CORPORATION
MacDONALD CONSULTANTS LIMITED
11 425 HOWE ST
VANCOUVER, BC
GEOCHEMICAL MAP
SCALE 1" = 200'
DRAWN H.W.
DATE NOV 67
NUMBER 219 - 12
COPPER PLOT



L-48
L-44
L-40
L-36
L-32
L-28
L-24
L-20
L-16
L-12
L-8
L-4
0
BASE LINE
DDH No.1
DDH No.2
DDH No.3
0 - 100 ppm
101 - 200 ppm
201 - 400 ppm
401 -
H. WOBER
PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
ALTAIR MINING CORPORATION
MacDONALD CONSULTANTS LIMITED
11 425 HOWE ST.
VANCOUVER, B.C.
GEOCHEMICAL MAP
SCALE 1" = 200'
DRAWN H.W.
DATE NOV 67
NUMBER 219 - 13
LEAD PLOT

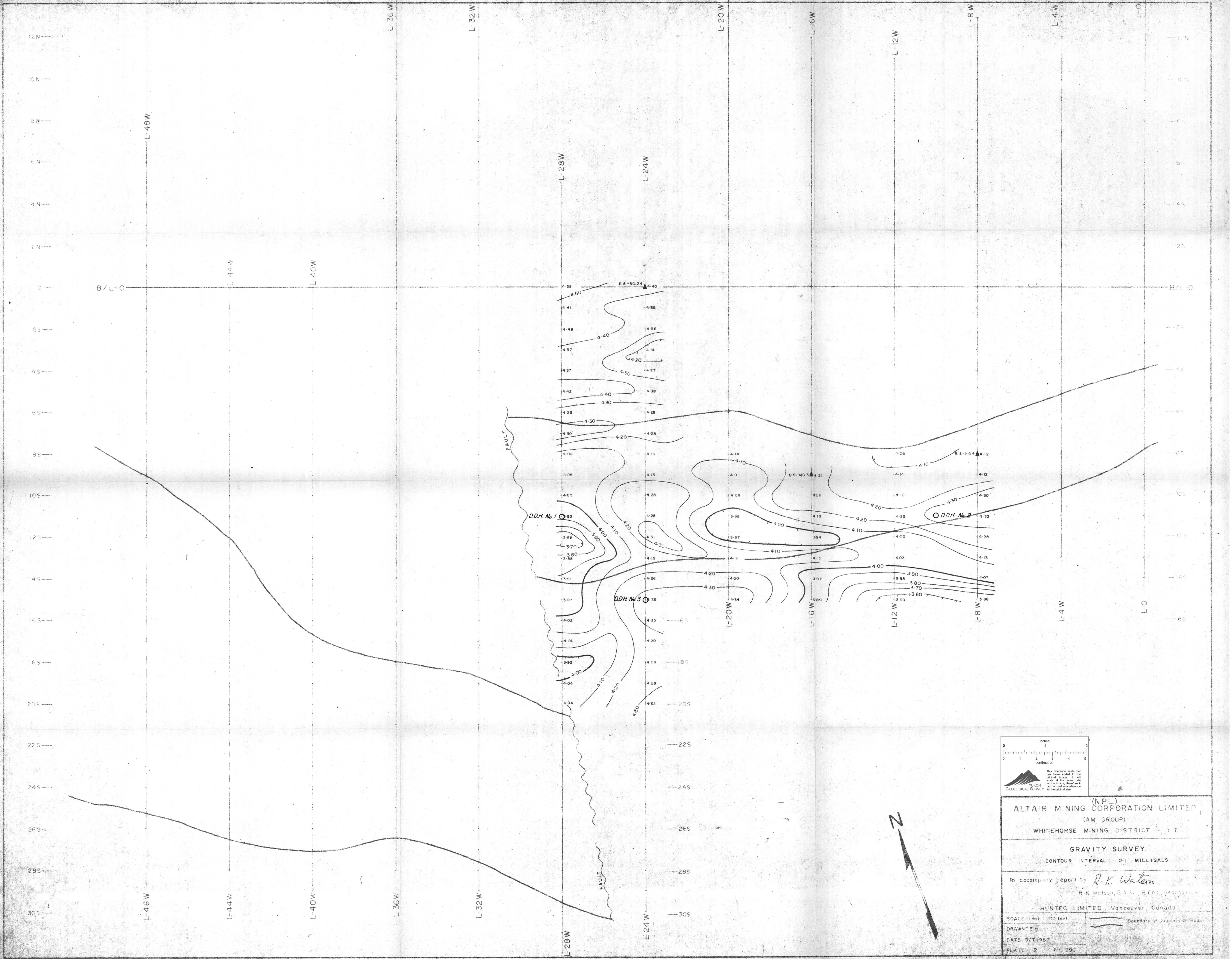


BASE LINE
L-48
L-44
L-40
L-36
L-32
L-28
L-24
L-20
L-16
L-12
L-8
L-4
L-0
DDH No. 1
DDH No. 2
DDH No. 3
0 - 200ppm.
201 - 400ppm.
401 - 800 ppm
801 -
PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
H. WOBER
inches
centimetres
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.
YUKON GEOLOGICAL SURVEY
ALTAIR MINING CORPORATION
MacDONALD CONSULTANTS LIMITED
11 425 HOWE ST. VANCOUVER, B.C.
GEOCHEMICAL MAP
SCALE 1" = 200'
DRAWN H.W.
DATE NOV 67
NUMBER 219 - 14
ZINC PLOT



L-48W
L-44W
L-40W
L-36W
L-32W
L-28W
L-24W
L-20W
L-16W
L-12W
L-8W
L-4W
L-0
B/L-0
12N
10N
8N
6N
4N
2N
0
2S
4S
6S
8S
10S
12S
14S
16S
18S
20S
22S
24S
26S
28S
30S
FAULT
D.D.H. No. 1
D.D.H. No. 2
D.D.H. No. 3
-20°
0°
+20°
N
inches
centimetres
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.
YUKON GEOLOGICAL SURVEY
(N.P.L.)
ALTAIR MINING CORPORATION LIMITED.
(AM GROUP)
WHITEHORSE MINING DISTRICT — Y.T.
CRONE E.M. SURVEY.
To accompany report by R. K. Watson
R. K. Watson, B.A.Sc., P.Eng., Geophysicist.
HUNTEC LIMITED, Vancouver, Canada.
SCALE: 1 inch = 200 feet.
DRAWN: E.H.
DATE: OCT 1967
PLATE - 1
PH-690
Boundary of Conductive Body.
High Frequency.
Low Frequency.

219-20



B/L-0
L-48W
L-44W
L-40W
L-36W
L-32W
L-28W
L-24W
L-20W
L-16W
L-12W
L-8W
L-4W
L-0
FAULT
DDH. No. 1
DDH. No. 2
DDH. No. 3
B.S.-NO.24
B.S.-NO.3
B.S.-NO.4
N
inches
centimetres
YUKON GEOLOGICAL SURVEY
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.
(N.P.L.)
ALTAIR MINING CORPORATION LIMITED
(AM GROUP)
WHITEHORSE MINING DISTRICT - Y.T.
GRAVITY SURVEY.
CONTOUR INTERVAL: 0·1 MILLIGALS
To accompany report by R. K. Watson
R. K. Watson, B.A.Sc., P.Eng., Geophysicist
HUNTEC LIMITED, Vancouver, Canada
SCALE: 1 inch = 200 feet
DRAWN: E.H.
DATE: OCT. 1967
PLATE - 2
PH 690
Boundary of Conductive Body

219-21