



52G14SE9174 10 VALORA LAKE

010

Diamond Drilling

Area OF VALORA LAKE

Report N^o 10

Work performed by: NEW CALUMET MINES

Claim N ^o	Hole N ^o	Footage	Date	Note
K 247390	1	348'	Dec/70	(1)
K 203756	2	371'	Dec/70	(1)
K 247389	3	440'	Jan/71	(2)
	4	352'	Jan/71	(2)
	5	341'	Jan/71	(2)

Total: - 5 DH 1852'

Notes:

(1) 18/71

(2) 37/71

DIP ANGLES Collar -45° 106' -38° 200' -36° 316' -34°	BEARING	South Ast.	LATITUDE	Line 3+00W	STARTED	Dec. 7/70
	LENGTH	348'	DEPARTURE	7+00 N Grid "C"	STOPPED	Dec. 11/70
	LOCATION	Claim K247390	ELEVATION		LOGGED BY	G.R. Dunlop

ROCK			CORE SAMPLES					
FOOTAGE	NAME OF ROCK	DESCRIPTION	SAMPLE NO.	WIDTH	FOOTAGE	ASSAY	ASSAY	ASSAY
0 - 96'	Casing	Overburden - Sand and Gravel, scattered boulders up to 2' in diameter.						
96' - 213'	Metasediments	<p><u>Hornblende-biotite-quartz schist.</u> Dark, medium grained, foliated schist. Elongated, smeared hornblende and chlorite crystals with biotite, in siliceous matrix, scattered minor garnet. Occasional grey-white quartz stringers 1/8" to 2", all at 40° to 50° to C.A. Foliation varies from almost massive to distinct banding and shearing. Variable chlorite in fine needles and irregular patches, less than 1/16". Occasional very fine specks of pyrite and pyrrhotite.</p> <p>At 187'-188', 1/2" quartz stringer with ghost fragments, parallel to C.A.</p> <p>Scattered massive fine grained sections 2" to 12" wide with concentrations of garnet and biotite, and minor pyrr.</p> <p>Below 190', gradually becomes more siliceous less foliated, with increasing quartz and garnet.</p> <p>At 213', heavy pyrrhotite 2 1/2" wide at apparent contact zone.</p>						
213' - 329.5'	Metavolcanics	<p><u>Acid to Intermediate banded Tuff and Dacite.</u> Fine grained, less schistose than first unit, very siliceous, with frequent quartz stringers. Distinctly banded in most sections with grey impure quartz and dark green chlorite-biotite stripes at 50° to C.A. Frequent garnetiferous zones with fine grained bands of mauve garnets densely packed. Scattered irregular zones of heavily disseminated pyrrhotite, with increasing quartz content.</p> <p>240'-241' - Irregular zone of 30% pyrite, pyrr.</p> <p>257.5 - 265' - Heavily diss. pyrrhotite, with minor pyrite in streaks and blebs parallel to weak foliation. This zone is an acid fragmental or ag-</p>						

G.R. Dunlop

DIP ANGLES		BEARING	LATITUDE	STARTED				
		LENGTH	DEPARTURE	STOPPED				
		LOCATION	ELEVATION	LOGGED BY				
ROCK			CORE SAMPLES					
FOOTAGE	NAME OF ROCK	DESCRIPTION	SAMPLE NO.	WIDTH	FOOTAGE	ASSAY Cu	ASSAY Ni	ASSAY Zn
213' - 329.5'	(cont'd)	- conglomerate with quartz fragments, within the tuff member. Approximately 30% sulphides 265' - 266' Stringers of pyrr. in quartz, 1/2" wide 266' - 276' - Very heavily mineralized with pyrr. in siliceous zone. Quartz injections and irregular fragments. Approx. 40% sulphides, mostly pyrr. with smaller proportion of pyrite (10% of sulphides). No visible chalcopyrite. The sulphide zone is followed by a heavily silicified section, strongly banded with quartz (grey) and green bands of chlorite and biotite. Generally banding is at 55° to C.A., with numerous contortions around siliceous bombs up to 1.5" in diam. Occasional concentrations of pyrr. 1" to 3" wide, as well as finely disseminated sparse py. and pyrr.	1013	8.5'	257.5 - 266'	0.02	0.02	
			1011	5.0'	266-271	0.02 (Au. Tr. Ag)	0.02	Nil Tr.)
			1012	5.0'	271-276	0.05 (Au Tr. Ag)	0.03	Nil Tr.)
329.5-334.5'	Agglomerate	<u>Quartz agglomerate</u> - Pink, impure, with subangular digested fragments of feldspar. Occasional fine threads of pyrr.						
334.5 - 348'	Amphibolite	<u>Mafic Metavolcanic</u> - Black, medium grained, faintly foliated, spotted with 1/16" hornblende crystals, with irregular fine particles of quartz and biotite. Sparsely mineralized with specks of pyrrhotite and pyrite.						
348'		<u>End of hole</u> Casing left in hole, producing water. Core stored at shed of M. Kostjuk in Valora. <u>SUMMARY</u> This hole was designed to intersect a strong EM conductor at 5+40N on Line 3+00W, Grid "C", and a fairly broad magnetic anomaly extending from 4+00N to 5+50N						

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COMPANY New Colunot Mines Ltd

DIAMOND DRILL RECORD

HOLE NO. 3

PROPERTY Valora

SHEET NO. 3

DATE

DIP ANGLES	BEARING	LATITUDE	STARTED
	LENGTH	DEPARTURE	STOPPED
	LOCATION	ELEVATION	LOGGED BY <u>G.R. Dunlop</u>

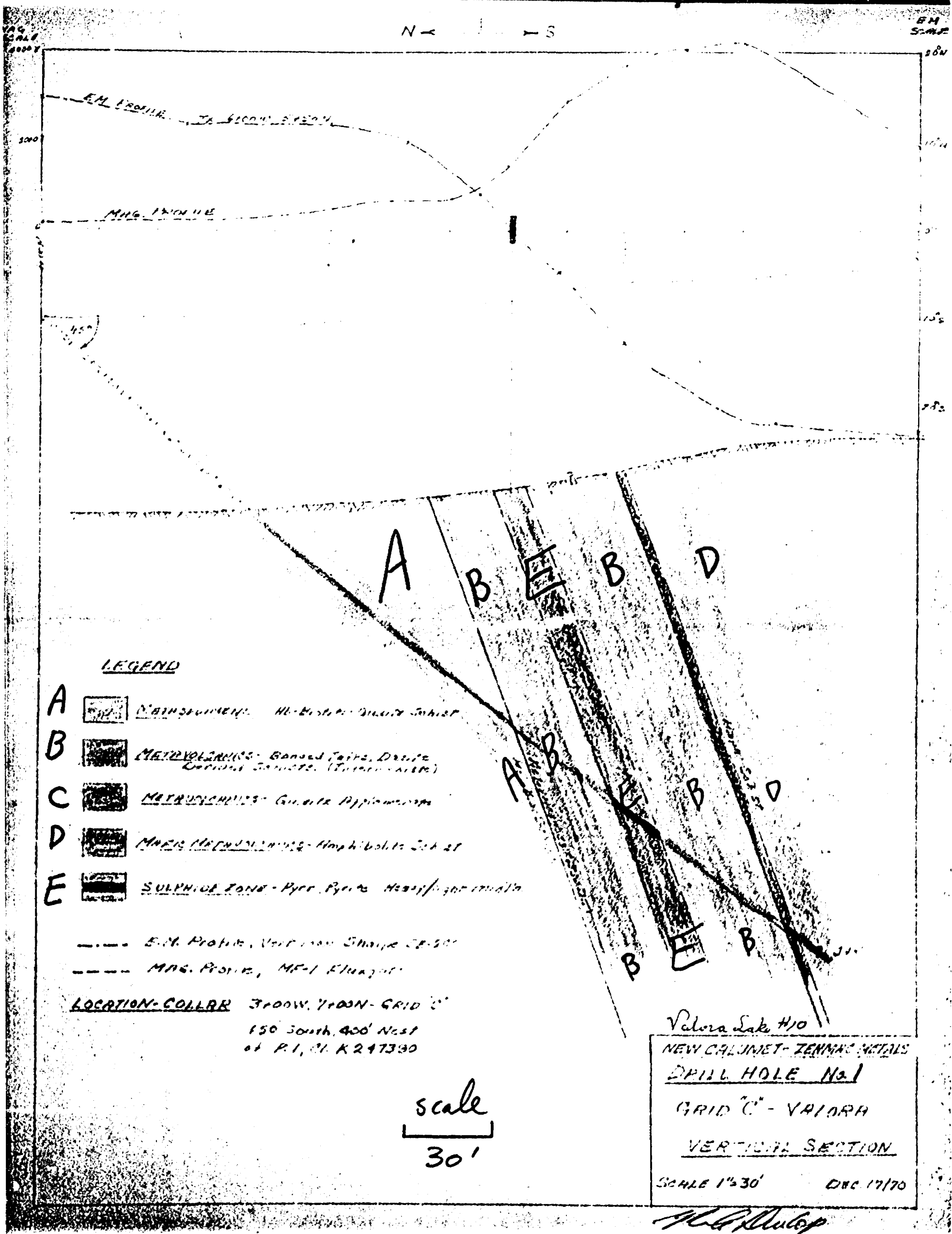
ROCK				CORE SAMPLES			
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FOOTAGE	NAME OF ROCK	DESCRIPTION	SAMPLE NO.	WIDTH	FOOTAGE	ASSAY	ASSAY	ASSAY
	SUMMARY (cont')	<p>The sulphide zone 257.5-276' corresponds to the EM conductor, if a dip of 75° to the south is assumed. It is highly possible that the dip is more nearly vertical, and that the EM conductor represents a parallel sulphide zone shifted farther north near surface. The magnetic anomaly overlies this zone, and part of the mafic horizon south of the sulphide zone.</p> <p>The sulphides occur in an altered horizon of acid to intermediate volcanics along the south contact of a regional band of hornblende-biotite gneisses and schists. The airborne EM conductors evidently represent these sulphide zones, and not the adjacent schist bands.</p>						

G.R. Dunlop

N ← — — — — — → S

BM
5-20-72



LEGEND

- A METASEDIMENTS - M.S. - Banded Shale, Sandstone
- B METAVOLCANICS - Banded Tuffs, Duffs, Gneiss, Schists, (Tuffaceous shales)
- C METASCHISTS - Gneiss, Pyroxenites
- D METAGNEISSES - Amphibolites, Schists
- E SULPHIDE ZONE - Pyrr. Pyrite, Magnetite, Pyrrhotite

--- EM. Profile, Vertical Shape of 20°
 --- MG. Profile, MF-1 Fluorite

LOCATION - COLLIER 3700W, 7400N - GRID C'
 150 South, 400' West
 of P. 1, C. K 247390

scale
 30'

Valora Lake #10
 NEW CALUMET - ZENITH METALS
 DRILL HOLE No. 1
 GRID C' - VALORA
 VERTICAL SECTION
 SCALE 1"=30' DEC 17/70

W. H. Butler

COMPANY New Calumet Mines Limited
 PROPERTY Valora, Sturgeon L. Area, Ontario

DIAMOND DRILL RECORD

HOLE NO. D.D.H. 2

SHEET NO. 1

DATE Dec. 17/70

DIP ANGLES	Collar	-45°	BEARING	North Ast.	LATITUDE	3-80 N	STARTED	Dec. 12/70
	100'	-39°	LENGTH	371'	DEPARTURE	4+50 E Grid "C"	STOPPED	Dec. 15/70
	200'	-38°	LOCATION	Claim K 203756	ELEVATION		LOGGED BY	G.R. Dunlop
	300'	-33°						

ROCK			CORE SAMPLES					
FOOTAGE	NAME OF ROCK	DESCRIPTION	SAMPLE NO.	WIDTH	FOOTAGE	ASSAY	ASSAY	ASSAY
0 - 84'	Casing	Overburden - Sand and gravel						
84 - 137'	Mafic Meta-volcanics	<u>Amphibolite Schist</u> Black, medium grained sheared rock, micaceous, with smeared hornblende crystals. Occasional 2"-6" quartz stringers and minor disseminated pyrrhotite. Impure pink to green quartz vein or quartz agglomerate from 114'-117', and smaller silicified zones to 137'. This member is similar to the amphibolite encountered at the bottom of hole #1.						
137' - 268'	Metavolcanic	<u>Banded tuff and dacite</u> - Banded, siliceous, schistose, light coloured with prominent bands of grey impure quartz, and green bands of biotite, sericite(?) and chlorite. Very lightly mineralized with pyrr. and occasional garnetiferous bands. Banding varies from 30° to 45° to C.A. Possible fine grained massive spotted intrusive at upper contact from 124-137. Spotted quartz-eye zone 169-171. Below 171, increasing sulphides- pyrite and pyrr. in narrow irregular quartz veinlets at 196', 203', 186.5' 203'-203.8' - 4"qtz. vein plus 3" massive pyrr. Pyrrhotite in disseminations and streaks from 194'-212', with average content less than 5% sulphides. From 214', rock becomes more massive, dark, with rapidly diminishing banding. Appearance of a basic volcanic, but still micaceous. Strong siliceous banding 40 to C.A. from 263' to 265'. Possible contact about 268'.						
268 - 322'	Metasediments	<u>Hornblende-biotite schist</u> - Rock becomes more speckled with smeared mafics, biotite, in numerous seams and disseminations. Minor garnet content.						
322 - 329'	Quartz-eye Flow.	Fine grained massive, with scattered siliceous						

M. Dunlop

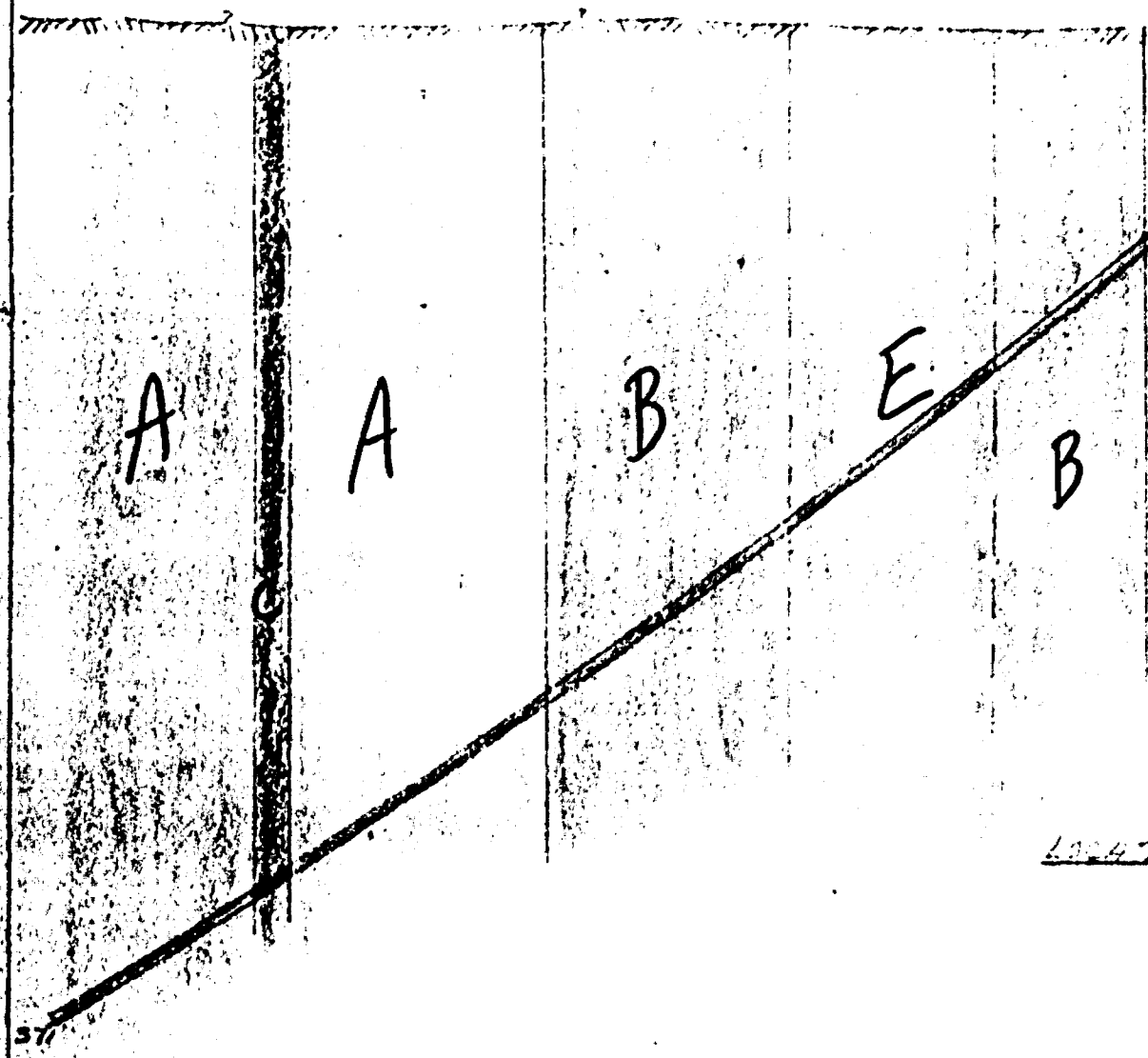
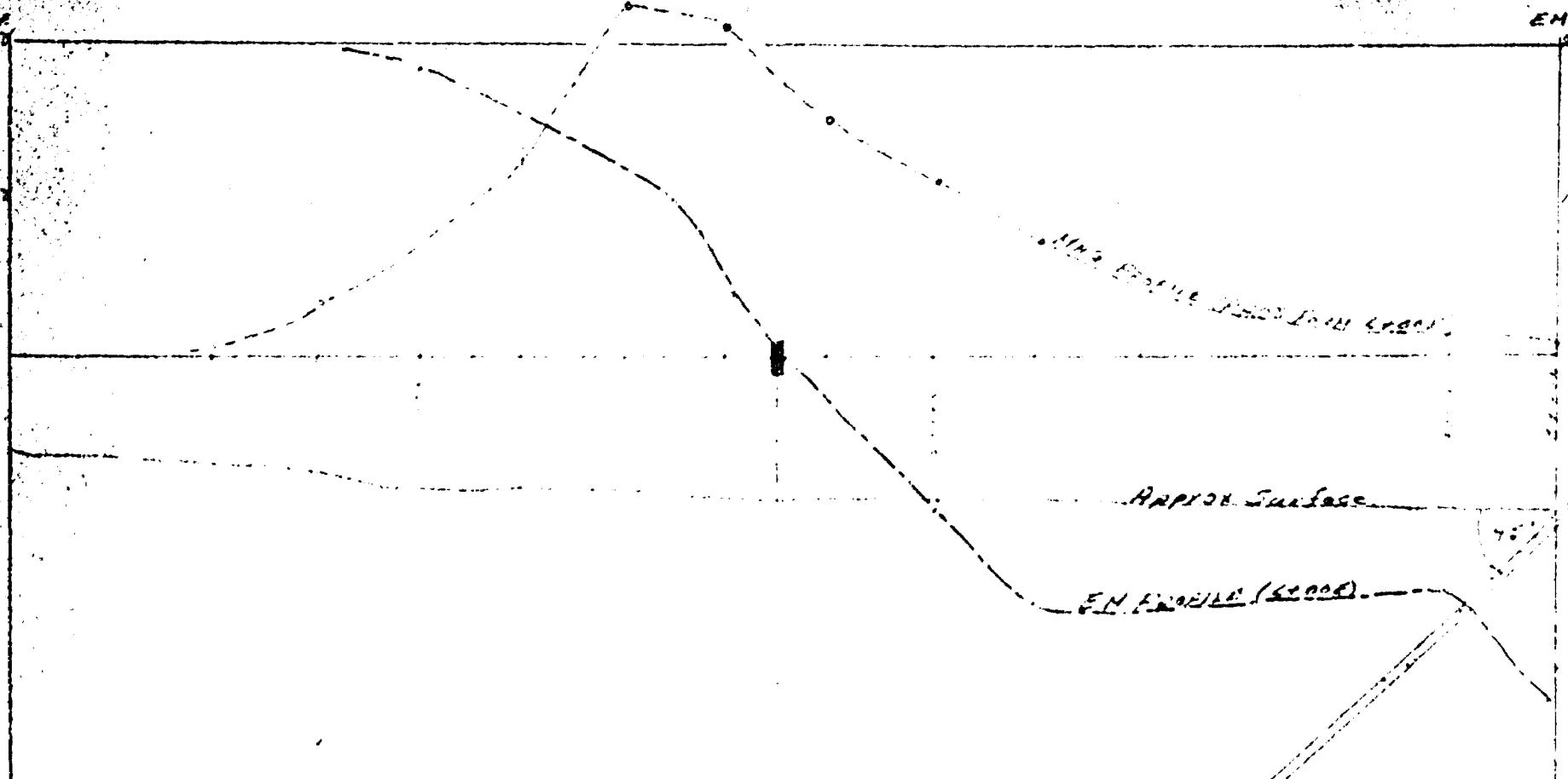
COMPANY New Callimet Mines Ltd.

DIAMOND DRILL RECORD

HOLE NO. 2PROPERTY ValoraSHEET NO. 2DATE Dec. 17/70

DIP ANGLES		BEARING	LATITUDE	STARTED				
		LENGTH	DEPARTURE	STOPPED				
		LOCATION	ELEVATION	LOGGED BY <u>G.E. Dunlop</u>				
ROCK			CORE SAMPLES					
FOOTAGE	NAME OF ROCK	DESCRIPTION	SAMPLE NO.	WIDTH	FOOTAGE	ASSAY	ASSAY	ASSAY
322 - 329'	Qtz-eye Flow (cont'd)	- amygdules or eyes.						
329 - 371'	Metasediments	Hornblende-Biotite Schist. Gradual increase in silicification with minor pyrite at 325'. Pink to green impure quartz and feldspar band at 333' (may be cherty tuff). Very little mineralization in fairly massive dark horn.-biotite schist to end of hole.						
371'		<u>End of Hole.</u> Casing left in hole, Core stored at shed of M. Kostjuk in Valora.						
	<u>SUMMARY</u>	This hole was intended to be a further test of Conductor "C" 750' East of hole #1. The sulphides encountered were much less concentrated than in the first hole, but were encountered in the same intermediate tuff or dacite horizon, south of the sedimentary schist horizon. The mafic amphibolite schist contains finely disseminated pyrrhotite, which probably accounts for the broad magnetic anomaly surrounding the E.M. conductor at 5+30 M. It would appear that the sulphide zone is variable in width and concentration, since the E.M. indication on this section is equal or greater than the conductor strength at hole #1, yet the zone is weaker at depth.						

EM 5000
100'



LEGEND

- A METASEDIMENTS
Hb-Biotite-Quartz Schist
- B METAVOLCANICS
Banded Tuffs, Dacite
- C METAVOLCANICS
Quartz Pyroclastics
- D METAS. METACHERT
Amphibole Schist
- E SULPHIDE ZONE
Pyrrhotite, Pyrr. c., Disc.

- EM. PROFILE VI. SE 200
- 1945 PROFILE NE-1

LOCATION: COLLAR 4150E 3780N 4100E
1180'S, 600'W
of P.I. O.K. 203756

Scale
30'

Valora #10

NEW CALUMET-TENNAC METALS

DRILL HOLE NO. E

GRID 'C' VALORA

VERTICAL SECTION

SCALE 1" = 30' DEC 23/40

M. C. Clark

COMPANY New Calumet Mines Limited and
Zemac Metal Mines Limited
 PROPERTY Valora Property

DIAMOND DRILL RECORD

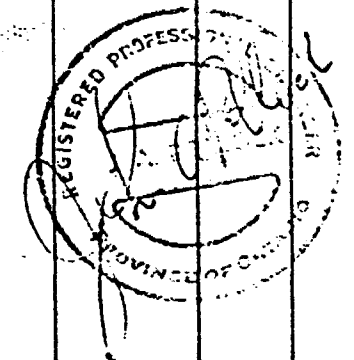
HOLE NO. 3

SHEET NO. 1

DATE January 11, 1971

DIP ANGLES 0 - 50° 440' - 34°	BEARING	Due North Ast.	LATITUDE	Line 600 West	STARTED	January 6, 1971
	LENGTH	440'	DEPARTURE	7 + 50 South	STOPPED	January 11, 1971
	LOCATION	Claim No. K-247371	ELEVATION	Grid D	LOGGED BY	J. A. Pollock
	ROCK					

FOOTAGE	NAME OF ROCK	DESCRIPTION	CORE SAMPLES						
			SAMPLE NO.	WIDTH	FOOTA E	ASSAY	ASSAY	ASSAY	
0 - 14	Metavolcanics	Casing. Overburden. Sand and Gravel.							
14 - 52.6	"	Andesitic tuff. Well banded, dark to medium gray andesitic tuff. Fine grained quartz and biotite bands, some chlorite and irregular quartz bombs or lapilli. Banding 60° to axis of core.							
52.6-70.6	"	Andesitic tuff. Well banded, dark, basic shearing with bedding, also at 60°. More frequent quartz stringers than first unit.							
70.6-159	"	Andesitic tuff, felsitic inclusions quartz up to 1/2". Zones almost rhyolitic in texture or acid fragmental. 113' - 138' Bands of sulphides. 120' - 120.5' 6" stringer massive pyrrhotite with quartz eyes up to 4 mill. 122' chalcopryrite 1/2". Split 117 - 122. 122 - 127.5 same as 117 - 122. 120.5 - 132 heavy to massive pyrrhotite and pyrite, some biotite, quartz and garnet bands. Zone is acid fragmental, quartz cuts axis at 60°. Split 127.6 - 132.6	1020	5'	117' - 122'	0.16	Cu	Ni	0.03
159 - 183.6	"	Moderately packed, rhyolitic dacite-tuff light coloured, quartz eyes, med. grained, minor sulphides, fine even banding 60° to axis of core. This member is the same as 127 - 136 in Hole #4.							



COMPANY ~~New Calumet Mines Limited and~~
 Zemarac Metal Mines Limited
 PROPERTY Valora Property

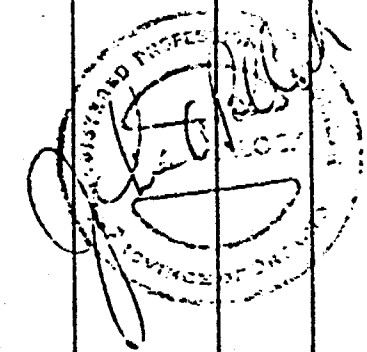
DIAMOND DRILL RECORD

HOLE NO. 3
 SHEET NO. 2 . DATE January 11, 1971

DIP ANGLES 0 - 50° 440' - 34°	BEARING <u>Due North Ast.</u>	LATITUDE <u>Line 600 West</u>	STARTED <u>January 6, 1971</u>
	LENGTH <u>440'</u>	DEPARTURE <u>7 + 50 South</u>	STOPPED <u>January 11, 1971</u>
	LOCATION <u>Claim No. K-247371</u>	ELEVATION <u>Grid D</u>	LOGGED BY <u>J. A. Pollock</u>

ROCK _____ CORE SAMPLES _____

FOOTAGE	NAME OF ROCK	DESCRIPTION	SAMPLE NO.	WIDTH	FOOTAGE	ASSAY	ASSAY	ASSAY
183.6-199.5	Metavolcanics	Andesitic tuff. Same as 70.6 - 159.						
199.5-202.5	"	Rhyolitic dacite tuff as 159 - 183.6						
202.5-209.5	"	Andesitic tuff as 70.6 - 159.						
209.5-225	"	Rhyolitic dacite tuff as 199.5 - 202.5						
225 - 245	"	Andesitic tuff as 202.5 - 209.5						
245 - 247	"	Rhyolite, fine grained, light coloured.						
247 - 257	"	Andesitic tuff. Pale green, fine grained.						
257 - 265	"	Rhyolitic dacite tuff as 159 - 183.6						
265 - 289	"	Andesitic tuff - as above						
289 - 290	"	Band light rhyolite or quartz (264' in Hole #4)						
290 - 440	"	Andesite tuff. Pale green, fine grained, occasional bands of darker green graphitic material. Quartz stringers at 60° to core axis. Very little sulphides.						
440		End of Hole. Core in Valora at M. Kostjuk's house.						



DIAMOND DRILL RECORD

COMPANY New Calumet Mines Limited and
Zenmac Metal Mines Limited.

HOLE NO. 3

PROPERTY Valora Property

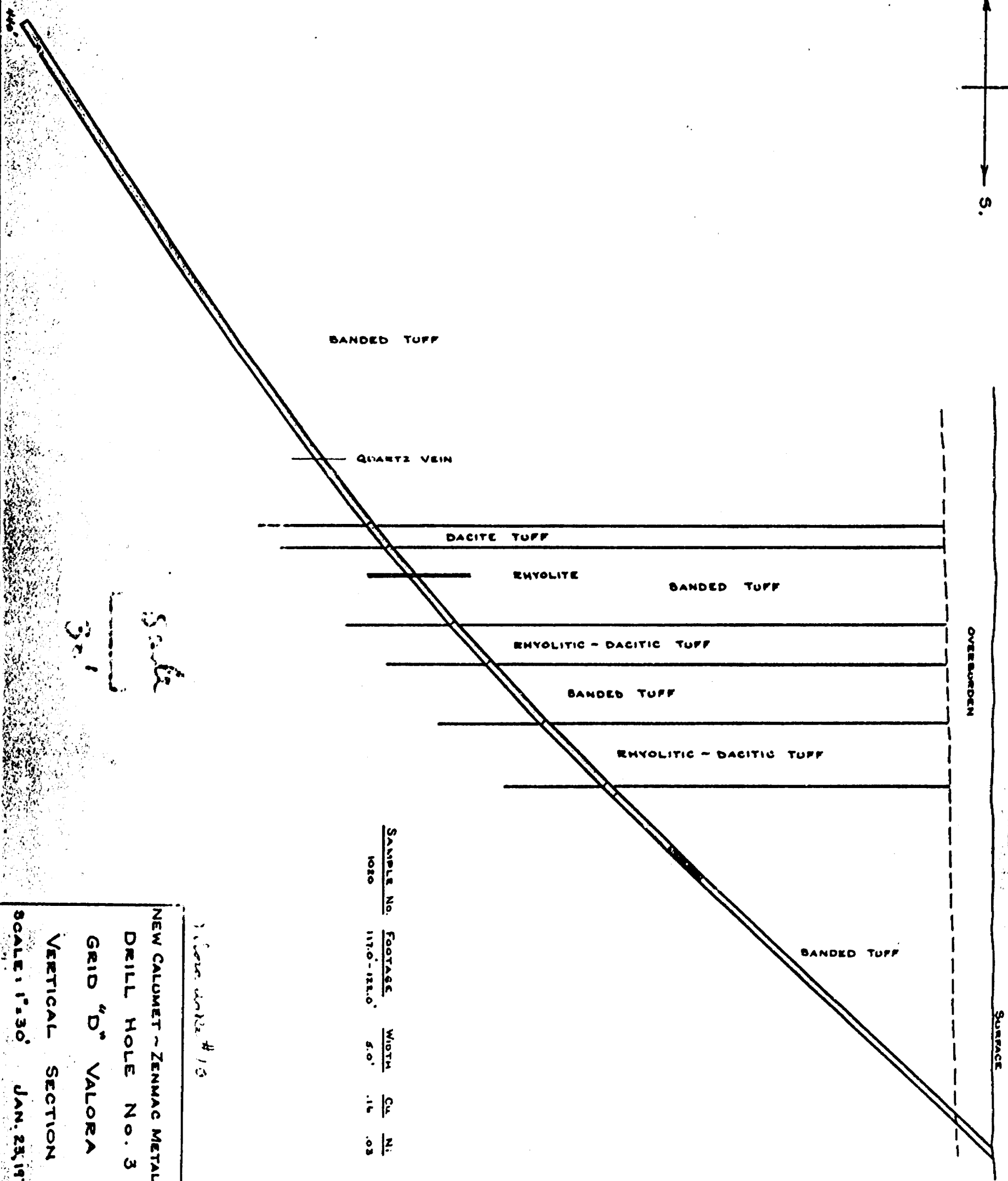
SHEET NO. 3

DATE January 11, 1971

DIP ANGLES 0 - 50° 440' - 34°	BEARING	<u>Due North Ast.</u>	LATITUDE	<u>Line 600 We</u>	STARTED	<u>January 6, 1971</u>
	LENGTH	<u>440'</u>	DEPARTURE	<u>7 + 50 South</u>	STOPPED	<u>January 11, 1971</u>
	LOCATION	<u>Claim No. K-247371</u>	ELEVATION	<u>Grid D</u>	LOGGED BY	<u>J. A. Pollock</u>

ROCK				CORE SAMPLES			
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FOOTAGE	NAME OF ROCK	DESCRIPTION	SAMPLE NO.	WIDTH	FOOTAGE	ASSAY	ASSAY	ASSAY
		<p>Conclusion:</p> <p>This hole was designed to intersect the ends of the conductor where it is displaced by an apparent fault. The most southerly conductor was intersected at approximately 70' to 135'. Apparently the northerly end of the conductor was missed at this depth as there was no indication of it up to 440'. Conductor is pyrrhotite, pyrite and possibly some chalcopyrite.</p>						



E.M. CROSSOVER

SURFACE

OVERBURDEN

BANDED TUFF

QUARTZ VEIN

DACITE TUFF

RHYOLITE

BANDED TUFF

RHYOLITIC - DACITIC TUFF

BANDED TUFF

RHYOLITIC - DACITIC TUFF

BANDED TUFF

SAMPLE No.	FOOTAGE	WIDTH	Cu	Ni
1020	117.0'-122.0'	5.0'	.16	.03

1. From sample #13

Scale
3x1

NEW CALUMET - ZENMAC METALS
 DRILL HOLE No. 3
 GRID "D" VALORA
 VERTICAL SECTION
 SCALE: 1"=30' JAN. 23, 1971.

W. J. ...

COMPANY New Calumet Mines Limited and
Zenmac Metal Mines Limited
 PROPERTY Valora Property

DIAMOND DRILL RECORD

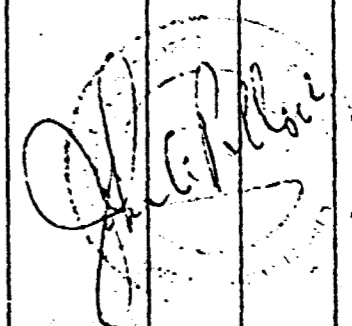
HOLE NO. 4

SHEET NO. 1

DATE January 16, 1971

DIP ANGLES 0 - 50° 352' - 33°	BEARING	Due North Ast.	LATITUDE	Line 450 West	STARTED	January 11, 1971
	LENGTH	352' AXI (1 5/16")	DEPARTURE	7 + 20 South	STOPPED	January 14, 1971
	LOCATION	Claim No. K-247371	ELEVATION	Grid "D"	LOGGED BY	J. A. Pollock

ROCK			CORE SAMPLES					
FOOTAGE	NAME OF ROCK	DESCRIPTION	SAMPLE NO.	WIDTH	FOOTAGE	ASSAY	ASSAY	ASSAY
0 - 12	Metavolcanics	Casing. Gravel boulders.						
12 - 113	"	Banded tuff. Well banded, green-gray fine grained light coloured, irregular gray impure quartz bands at 60° to core axis. Bands of biotite, chlorite and sericite. Some darker bands possibly graphitic. Very minor sulphide mineralization.						
113 - 121	"	Dacitic Tuff. Gray light coloured moderately packed dacite tuff, few (4) quartz bands. Very silicious and hard.						
121 - 127	"	Banded Tuff. As above.						
127 - 136	"	Rhyolitic Tuff, loosely packed, bands of sulphides pyrite, pyrrhotite. Very hard silicious. Banding at 60° to core axis. Sections of almost pure quartz. 127 - 136 Split.	1016	9'	127-136	Cu .11	Ni .02	
136 - 178	"	Banded Tuff. Same as above with occasional quartz stringers, pale green, fine. Some zones up to 3' lacking any quartz stringers.						
178 - 186	"	Rhyolitic Tuff. Light coloured, silicious, densely packed quartz pebbles up to 2/10" diameter, almost a porphyritic texture. Fine mineralization.						



COMPANY New Calumet Mines Limited and
Zemmac Metal Mines Limited
 PROPERTY Valora property

DIAMOND DRILL RECORD

HOLE NO. 4

SHEET NO. 2

DATE Jan. 16, 1971

DIP ANGLES 0 - 57° 352' - 33°	BEARING	LATITUDE	STARTED
	LENGTH	DEPARTURE	STOPPED
	LOCATION	ELEVATION	LOGGED BY
	Due North Ast.	Line 450 West	January 11, 1971
	352' AXF (1 3/16")	7 + 20 South	January 14, 1971
	Claim No. K-247371	Grid D	A. Pollock

ROCK _____ CORE SAMPLES _____

FOOTAGE	NAME OF ROCK	DESCRIPTION	SAMPLE NO.	WIDTH	FOOTAGE	ASSAY	ASSAY	ASSAY
186 - 188	Metavolcanics	Banded Tuff, as above						
188 - 201	"	Rhyolitic Tuff, as above.						
201 - 268.6	"	Banded Tuff. Some bands dark green, massive all at 60° to core axis. 244' open fault zone.						
268.6-269.6	"	Quartz or rhyolite band at 60° to core axis.						
269.6-291	"	Banded Tuff. Typical varying silicious bands, light green, some heavy biotite bands, occasional garnets.						
291 - 306	"	Rhyolitic Tuff. Very silicious bands of heavy to massive pyrrhotite and pyrite. Split sections 303.5 - 304.8., 302 - 302.6						
306 - 334	"	Banded Tuff. Typical pale green, fine silicious bands at 60° to core axis.						
334 - 339	"	Banded Tuff. Dark biotite bands, some small quartz eyes almost like a biotite schist, but contains quartz inclusions.						
339 - 352	"	Banded Tuff. Typical banded green, silicious bands etc.						

A. Pollock

DIAMOND DRILL RECORD

COMPANY New Calumet Mines Limited and
Zenmac Metal Mines Limited
 PROPERTY Valora Property

HOLE NO. 4

SHEET NO. 3

DATE January 16, 1971

DIP ANGLES 0 -50° 352' -33°	BEARING	LATITUDE	STARTED
	LENGTH	DEPARTURE	STOPPED
	LOCATION	ELEVATION	LOGGED BY

Due North Ast.

Line 450 West

January 11, 1971

352' AXI (1 5/16")

7 + 20 South

January 14, 1971

Claim No. K-247371

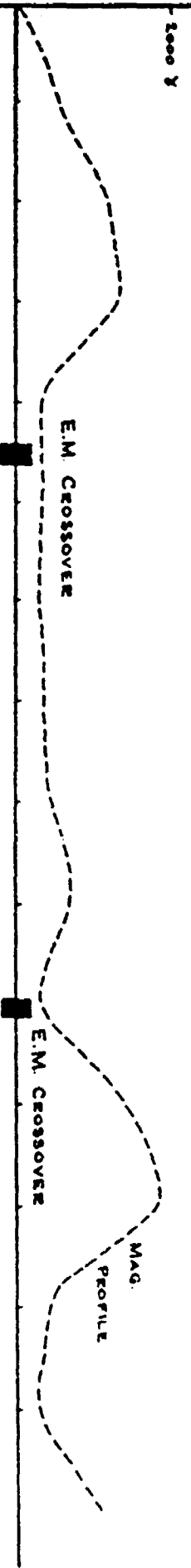
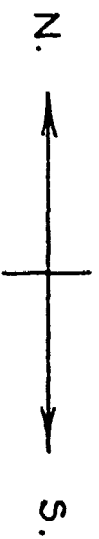
Grid "D"

J. A. Pollock

ROCK _____ CORE SAMPLES _____

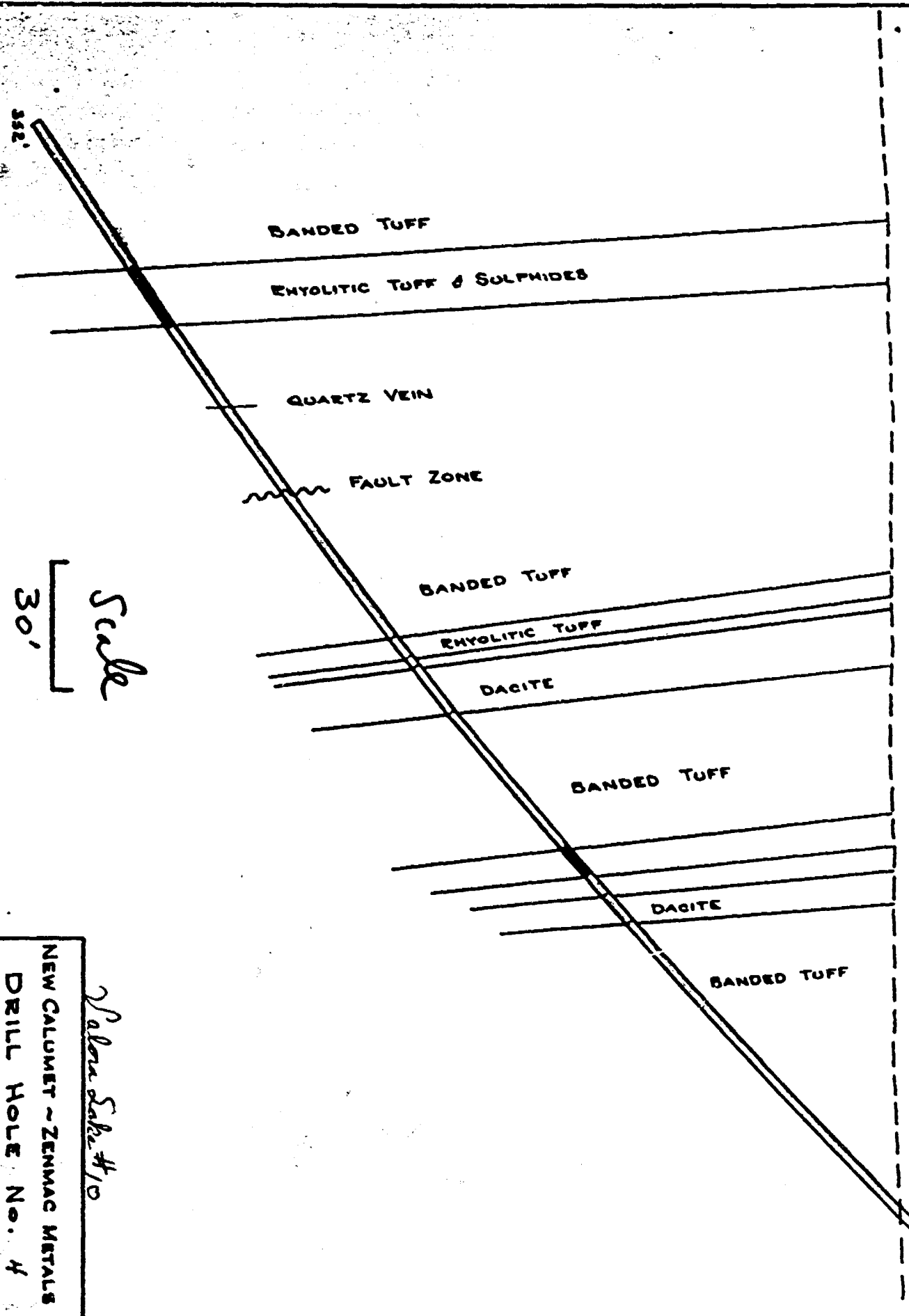
FOOTAGE	NAME OF ROCK	DESCRIPTION	SAMPLE NO.	WIDTH	FOOTAGE	ASSAY	ASSAY	ASSAY
		<p>Conclusions:</p> <p>This hole was designed to test the Conductor "D" at the point where it is displaced by an apparent fault. A section of pyrrhotite and pyrite was encountered at 125 - 135', an open seam was encountered at 244'. Our next pyrrhotite and pyrite zone was encountered at 290 - 310 which was the northerly zone. It appears that the sulphide zone is displaced as shown by the mag. and E.M. survey and there is a fault zone as indicated.</p>						

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SURFACE

OVERBURDEN



SAMPLE No. 1016 9' LONG
127'-136' CU - .11 NI - .02

Scale
30'

Valora Scale #10
NEW CALUMET ~ ZENMAC METALS
DRILL HOLE No. 4
GRID "D" VALORA
VERTICAL SECTION
SCALE: 1" = 30' JAN. 29, 1971

COMPANY New Calumet Mines Limited and
Zenmac Metal Mines Limited
 PROPERTY Valora Property

DIAMOND DRILL RECORD

HOLE NO. 5

SHEET NO. 1

DATE January 20, 1971

DIP ANGLES 0 -50° 341' -34°	BEARING <u>Due North Ast.</u>	LATITUDE <u>Line 1500 W</u>	STARTED <u>January 17, 1971</u>
	LENGTH <u>341'</u>	DEPARTURE <u>10 + 20 S</u>	STOPPED <u>January 20, 1971</u>
	LOCATION <u>Claim No. K-247389</u>	ELEVATION <u>Grid D</u>	LOGGED BY <u>J. A. Pollock</u>

ROCK			CORE SAMPLES					
FOOTAGE	NAME OF ROCK	DESCRIPTION	SAMPLE NO.	WIDTH	FOOTAGE	ASSAY	ASSAY	ASSAY
0 - 16	Casing	Gravel Boulders.						
16 - 36.6	Metavolcanics	Banded Tuff. Silicious pale green, fine grained, quartz stringers at 50° to core axis.						
36.6 - 38	"	Gray, silicious rhyolitic dacite tuff 1/2" quartz inclusions.						
38 - 55	"	Banded Tuff.						
55 - 70	"	As 36.6 - 38. Rhyolitic dacite tuff.						
70 - 106.5	"	Very silicious andesitic tuff? Well banded, fine grained, pale green, minor zones of darker (hornblende or biotite) quartz eyes up to 2/10".						
106.5-115	"	Dark, fine grained, intense fine bedding. Rhyolitic dacite tuff, quartz eyes very numerous.						
115 - 210	"	Pale green silicious more dacitic with depth. Well banded with quartz chlorite hornblende sections, almost white to pale green. No miceralization. 170 - 180 black, finely bedded, hard, fine grained some minor pyrrhotite and pyrite with the bedding. Zones of fine 2/10" quartz eyes and some sections without.						

J. A. Pollock

COMPANY New Calumet Mines Limited and
Zenmac Metal Mines Limited.
 PROPERTY Valora Property

DIAMOND DRILL RECORD

HOLE NO. 5

SHEET NO. 2

DATE January 20, 1970

DIP ANGLES 0 -50° 341' -34°	BEARING <u>Due North Ast.</u>	LATITUDE <u>Line 1500 W</u>	STARTED <u>January 17, 1971</u>
	LENGTH <u>341'</u>	DEPARTURE <u>10 + 20 S</u>	STOPPED <u>January 20, 1971</u>
	LOCATION <u>Claim No. K-247389</u>	ELEVATION <u>Grid D</u>	LOGGED BY <u>J. A. Pollock</u>

FOOTAGE	NAME OF ROCK	DESCRIPTION	SAMPLE NO.	WIDTH	FOOTAGE	CORE SAMPLES		
						ASSAY	ASSAY	ASSAY
210 - 235	Metavolcanics	Silicious, green gray (sample). Very hard, no bedding, minor pyrite and pyrrhotite.						
235 - 251	"	Banded Tuff. Fine grained, silicious green gray, poorly banded at 60° to core axis.						
251 - 251.6	"	Quartz stringer.						
251.6-261	"	Banded Tuff. Two zones 2/10" quartz eyes loosely packed.						
261 - 269	"	Split. Fine grained. Zones having pyrrhotite and pyrite. Fine quartz stringers, very hard to split. 261 - 69 Split.	1018	4'	261.3 - 265.3	Cu .25	Ni .05	
			1024	4'	265.3 - 269	Not assayed		
269 - 304	"	Rhyolitic dacite tuff, fine, dark, intense fine bedding, little quartz stringers. Heavy mineralization 297.8 - 293.11. Split 289 - 296. Split 302.5 - 309. Very fine scattered bands of mineralization	1023	1 1/2'	291.2 - 299.8	.09	.01	
			1021	2'	293.11 - 295.11	.11	.03	
			1022	1'8"	302.6 - 309.8	.07	.02	
			1019	1'3"	292.8 - 293.11	.15	.05	
304 - 341	"	Andesitic tuff. Fine bedding, some scattered quartz. No mineralization. Bedding at 50-60° to core.						
341		End of Hole.						

J. A. Pollock

COMPANY New Calumet Mines Limited and
Zenmac Metal Mines Limited
 PROPERTY Valora Property

DIAMOND DRILL RECORD

HOLE NO. 5

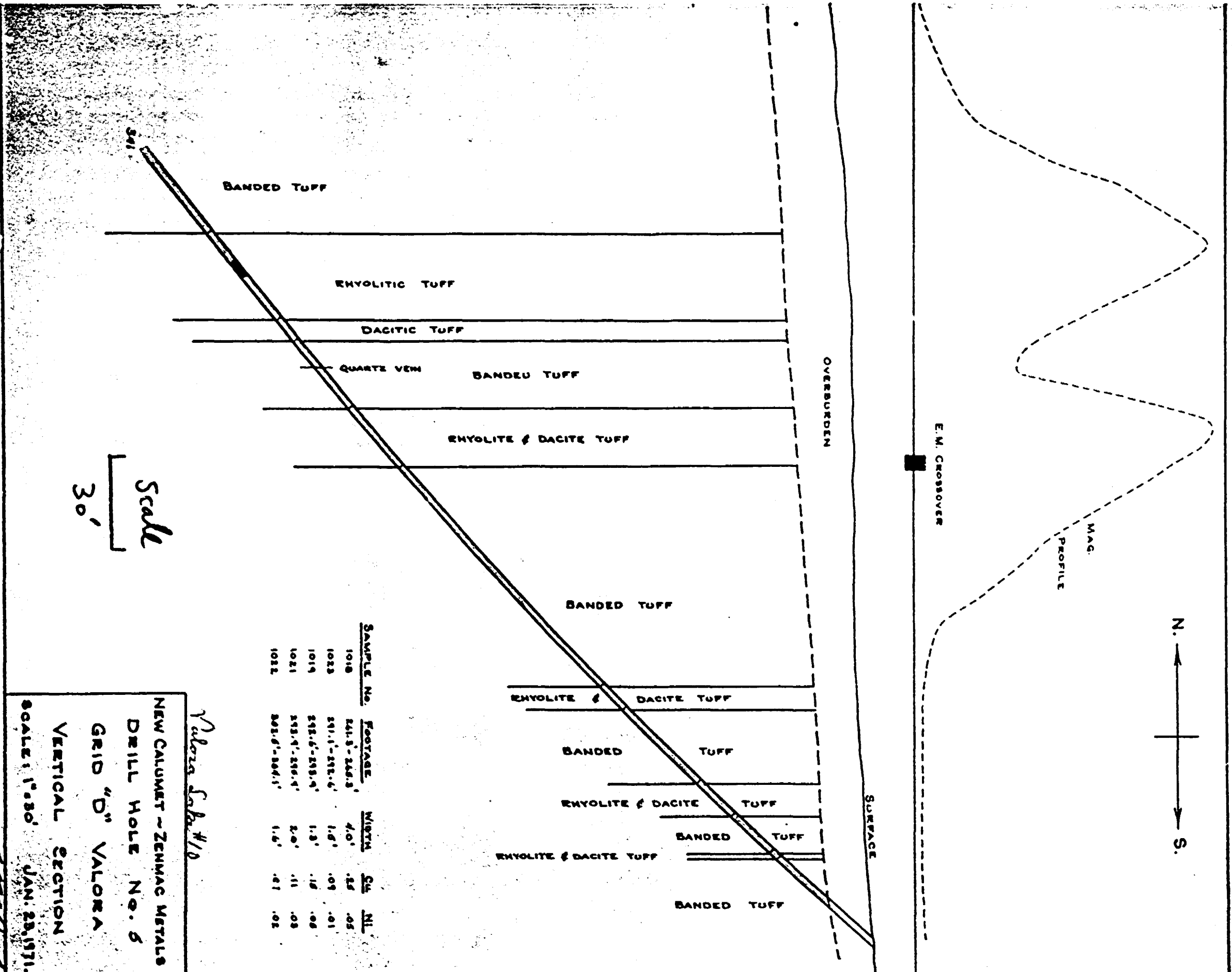
SHEET NO. 3

DATE January 20, 1970

DIP ANGLES 0 -50° 341' -34°	BEARING	Due North Ast.	LATITUDE	Line 1500 W	STARTED	January 17, 1971
	LENGTH	341'	DEPARTURE	10 + 20 S	STOPPED	January 20, 1971
	LOCATION	Claim No. K-247389	ELEVATION	Grid D	LOGGED BY	J. A. Pollock

ROCK			CORE SAMPLES					
FOOTAGE	NAME OF ROCK	DESCRIPTION	SAMPLE NO.	WIDTH	FOOTAGE	ASSAY	ASSAY	ASSAY
		<p>Conclusion:</p> <p>This hole was planned to sample the broad magnetic high as well as the E.M. conductor. The conductor proved to be several bands of pyrrhotite and pyrite.</p>						

J. A. Pollock



SAMPLE NO.	FOOTAGE	WIDTH	CU	NL
1018	241.5'-246.5'	4.0'	.27	.05
1023	251.1'-255.6'	1.6'	.09	.01
1019	255.6'-258.9'	1.8'	.18	.06
1021	258.9'-259.4'	2.0'	.11	.03
1022	262.6'-264.1'	1.6'	.07	.02

Valora Sub #10

NEW CALUMET - ZENMAC METALS
 DRILL HOLE NO. 5
 GRID "D" VALORA
 VERTICAL SECTION
 SCALE: 1"=30'
 JAN. 29, 1971.

FILED:
REC'D. JAN 18 1971 ✓
RECEIPT No.
MINING DIVISION THE MINING ACT RE



Check Sheet (1-10)
52614SE9174 10 VALORA LAKE

900

To the Recorder of.....KENORA.....Mining Division

I,NEW CALUMET MINES LIMITED (Optionee of record)..... T - 291
name of Recorded Holder Miner's Licence

.....Suite 601, 360 Bay Street, Toronto 105, Ontario.....
Post Office Address

do hereby report the performance of719..... days of Diamond Drilling
type of work

not before reported to be applied on the following contiguous claims **Valora M-2052**

Claim No.	Days	Claim No.	Days	Claim No.	Days
K 203751	20	K 203757	20	K 203763	20
203752	20	203758	20	203764	20
203753	20	203759	20	203765	20
203754	20	203760	20	203766	20
203755	20	203761	20	203767	20 (Plus attached list)
203756	20	203762	20	203768	20

All the work was performed on Mining Claim (s) K 247390 (348') and K 203756 (371')
(In the case of geological and/or geophysical survey (s) where more than 18 claims are involved attach a schedule)

REA CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING RECORDER.

- For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment.
- For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter of core. Name and address of owner or operator of drill. Dates when drilling was done. Signed core log and sketch in duplicate.
- For Compressed Air or Other Power Driven or Mechanical Equipment
Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment.
- For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording.
- With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate.
- For Geological and Geophysical Survey - The names and addresses of men employed as well as dates. Type of instrument used in the case of geophysical survey. Reports and maps in duplicate must be filed with the Minister within 60 days of recording.
- For Land Survey - the name and address of Ontario Land surveyor.

The Required information is as Follows: (Attach a list if this space is insufficient)

Drill Hole No. 1. - Claim 247390. Drilled south at -45° AXT (1 3/16") core 344'
December 7 - 11, 1970

Drill Hole No. 2. Claim K 203756. Drilled North at -45°. AXT (1-3/16") core 371'

Drilling done under contract by: N. Morissette Diamond Drilling Limited
Haileybury, Ontario

Date January 13, 1971
Signature of Recorded Holder or Agent
Vice-President
[Signature]

The Mining Act
Certificate Verifying Report of Work

I,G.R. Cunningham-Dunlop.....
.....P.O. Box 39, Haileybury, Ontario.....
(Post Office Address)

hereby certify:

- That I have a personal and intimate knowledge of the facts set forth in the report of work annexed hereto, having performed the work or witnessed same during and/or after its completion.
- That the annexed report is true.

Dated January 13, 1971
Signature
[Signature]

K 203756

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

RECEIVED
FEB 15 1971
AM 7:00 PM 10:11:12:13:14:15:0

Check Sheet 11-21



ONTARIO

THE MINING ACT REPORT OF WORK

A separate form is required for each type of work to be recorded.

To the Recorder of..... KENORAMining Division

I,NEW CALUMET MINES LIMITED (Optionee of record)..... T-291
name of Recorded Holder Miner's Licence

..... Suite 601, 360 Bay Street, Toronto 105, Ontario,
Post Office Address

do hereby report the performance of 1133 days of Diamond drilling
type of work

not before reported to be applied on the following contiguous claims

Valora M-2052

Claim No.	Days	Claim No.	Days	Claim No.	Days
K-203502	20	203496	20	203490	20
203501	20	203495	20	203489	20
203500	20	203494	20	203488	20
203499	20	203493	20	203487	20
203498	20	203492	20	203486	20
203497	20	203491	20	203485	20 (Plus attached list)

All the work was performed on Mining Claim (s) ...K-247389, 440, 352, 361..... Total: 1133'
(In the case of geological and/or geophysical survey (s) where more than 18 claims are involved attach a schedule)

READ CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING RECORDER.

- For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment.
- For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter of core. Name and address of owner or operator of drill. Dates when drilling was done. Signed core log and sketch in duplicate.
- For Compressed Air or Other Power Driven or Mechanical Equipment
Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment.
- For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording.
- With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate.
- For Geological and Geophysical Survey - The names and addresses of men employed as well as dates. Type of instrument used in the case of geophysical survey. Reports and maps in duplicate must be filed with the Minister within 60 days of recording.
- For Land Survey - the name and address of Ontario Land surveyor.

The Required Information is as Follows: (Attach a list if this space is insufficient)

- Drill Hole No.3. Claim K-247389. Drilled North at -50° AXT (1 3/16") Core 352'
- " " No.4 Claim K-247389 Drilled North at -50° AXT
- " " No.5 Claim K-247389 Drilled North at -50° AXT

Drilling done under contract by N. Morissette Diamond Drilling Limited
Haileybury, Ontario.

New Calumet Mines Limited

Date January 28th, 1971

[Signature]
Signature of Recorded Holder or Agent

Vice-President

The Mining Act
Certificate Verifying Report of Work

I, G. R. Cunningham-Dunlop
..... P. O. Box 39, Haileybury, Ontario
(Post Office Address)

hereby certify:

- That I have a personal and intimate knowledge of the facts set forth in the report of work annexed hereto, having performed the work or witnessed same during and/or after its completion.
- That the annexed report is true.

Dated... January 28, 1971 ... 19

[Signature]
Signature

K 247389

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

Claim No.	Days	Claim No.	Days	Claim No.	Days
✓203484	20	203307	20	250146	20
✓203483	20	203306	20	250130	20
✓203318	20	203305	20	✓257656	20
✓203317	20	203304	20	257670	20
203316	20	✓203299	20	257671	20
203315	20	203303	20	257664	20
203314	20	203302	20	257665	20
203313	20	✓203301	20	257429	20
203312	20	✓203298	20	257430	20
203311	20	✓203300	20	246812	20
203310	20	250149	20	246851	20
203309	20	250148	20	✓241980	20
203308	20	250147	20	247389	10
				✓203751	1
				✓247390	1
				✓247391	1

NEW CALUMET MINES LIMITED

January 13 1917.

ADDITIONAL CLAIMS - REPORT OF WORK, VALORA PROPERTY

<u>Claim No.</u>	<u>Days</u>
K 20370y	20
203770	20
<u>2473y</u>	19
K 250131	20
250132	20
250133	20
250134	20
250135	20
250136	20
250137	20
250138	20
250139	20
250140	20
250141	20
250142	20
250143	20
250144	20
250145	20
36 claims	719 Days (Total with 18 claims on work report sheet)

SUMMARY : Total of 719 days work reported on 36 claims as follows:

20 days per claim on each of K203751 to K203770 incl.

19 days on claim K2473y (drilling performed on this claim)

20 days per claim on each of K250131 to K250145 incl.

Certified By: *[Signature]*

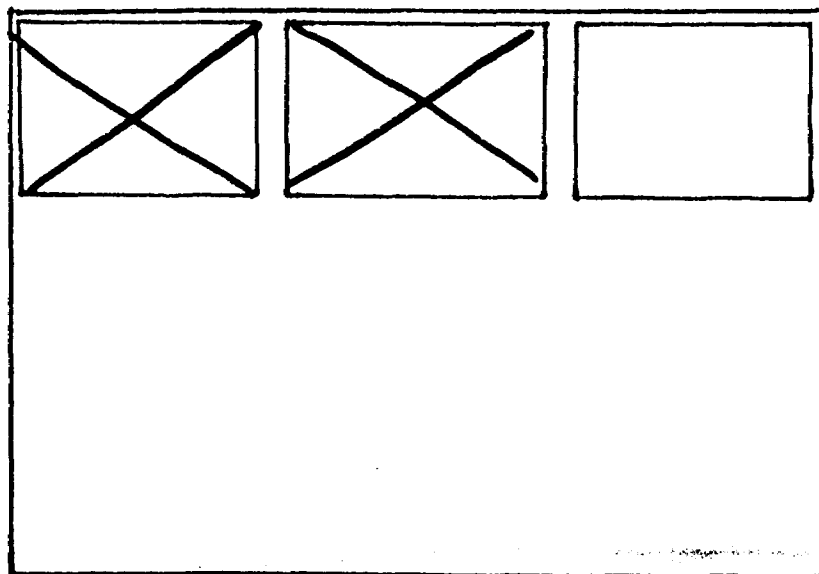
*# 18/71 Short Lake Area
Ken Addison Mine Ad*

SEE ACCOMPANYING
MAP(S) IDENTIFIED AS

52G/14SE-0019 # 1-2

LOCATED IN THE MAP
CHANNEL IN THE
FOLLOWING SEQUENCE

(X)



K 248453	248446	248445	248438	247388	247381	247370	247370	247371	247373
K 248452	248447	248444	248439	247387	247382	247373	247371	247373	247370
K 248451	248448	248443	248440	247386	247375	247384	247378	247374	247370
K 248450	248449	248442	248441	247385	247382	247381	247375	247375	247371
K 248400	248799	248798	248797	247384	247383	247400	247375	247374	247370
K 248793	248794	248795	248796	248799	248786	247399	247398	247398	247398
K248792	248791	248790	248787	248785	248784	247395	247377	247374	247370
K 257656	257670	257671	257664	257665	257662	257630	248812	248851	248860
K257657	257668	257659	257660	257658	257643	257642	248844	248853	248853
K 257654	257667	257663	257659	257666					

K 203300									
K 203303	203305	203307	203311	203315	203445	203487	203491	203495	
K 203304	203304	203306	203312	203316	203404	203488	203492	203496	
K 203302	203305	203309	203313	203317	203485	203489	203493	203497	
K 203301	203306	203310	203314	203318	203486	203490	203494	203498	250146
K 203751	203752	203753	203754	203755	250142	250138	250134	250130	250147
K 203757	203757	203757	203759	203761	250143	250139	250135	250131	250148
K 203761	203762	203763	203764	203765	250140	250136	250132	250128	203501
K 203767	203767	203768	203768	203770	250145	250141	250137	250133	203502

LOCATIONS OF DRILL HOLES

D.D.H. No. 1 - 650' South, 400' West of P. 1, C1. 247370
 Drilled South at -15° to 38°
 D.D.H. No. 2 - 1160' South, 600' West of P. 1, C1. 247370
 Drilled North at -07° to 37°

ASSESSMENT WORK GROUPING

A | K 203751 - 203770 incl.
 B | K 250131 - 250145 inc.
 (35 claims @ 20 days ----- 700 days)
 K 247390 ----- 19 days)
 Total 719 days

Valora Lake #10

NEW CALUMET - ZENMAC METAL MINES

PROPERTY PLAN - VALORA

DRILL HOLES, CLAIMS & ASSESSMENT GROUPING

SEARCHED IN 1/4 MS. JAN. 13, 1970



1
200

52G14SE-0019 #1

Wintering pens

CLERKSON

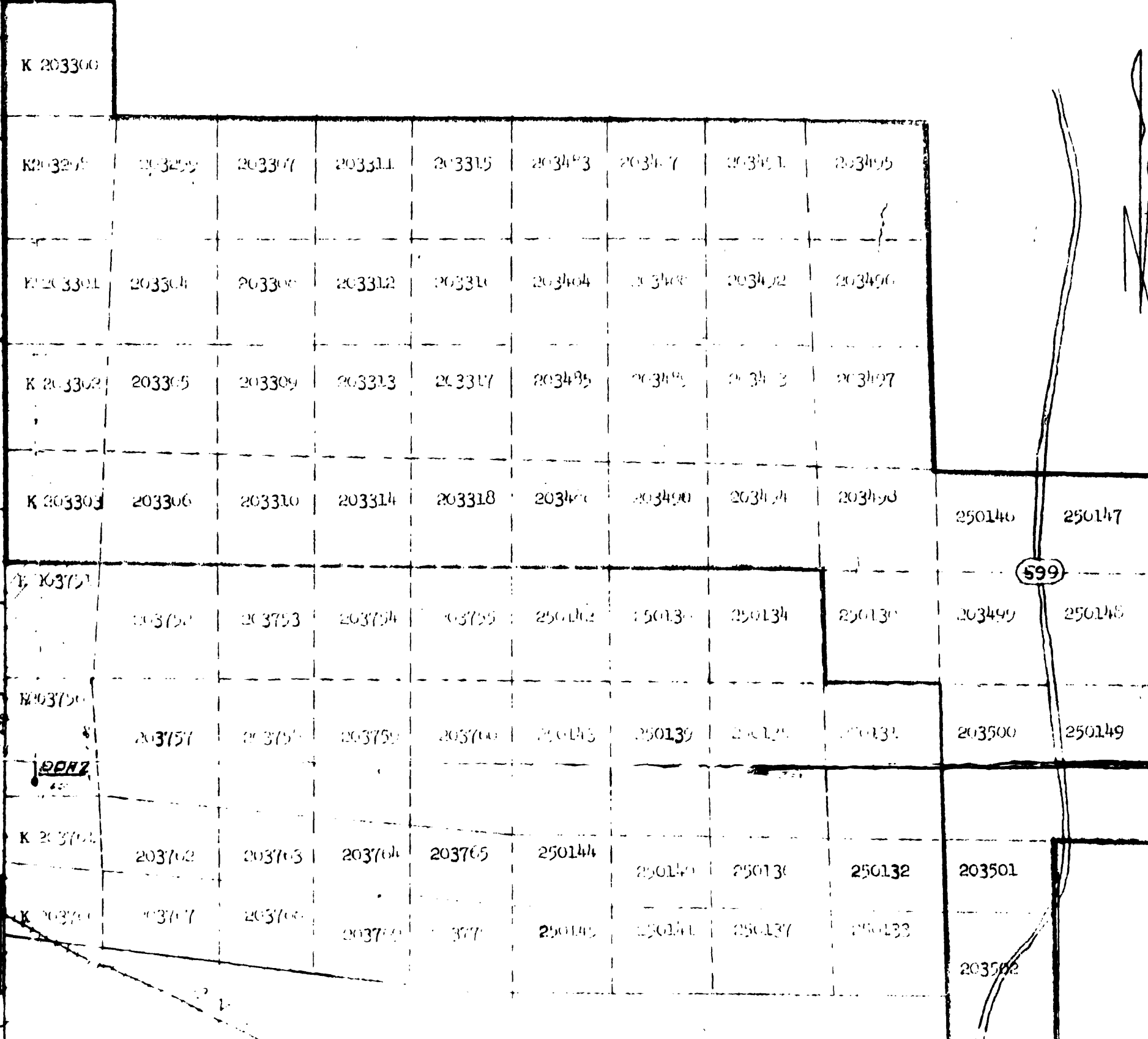
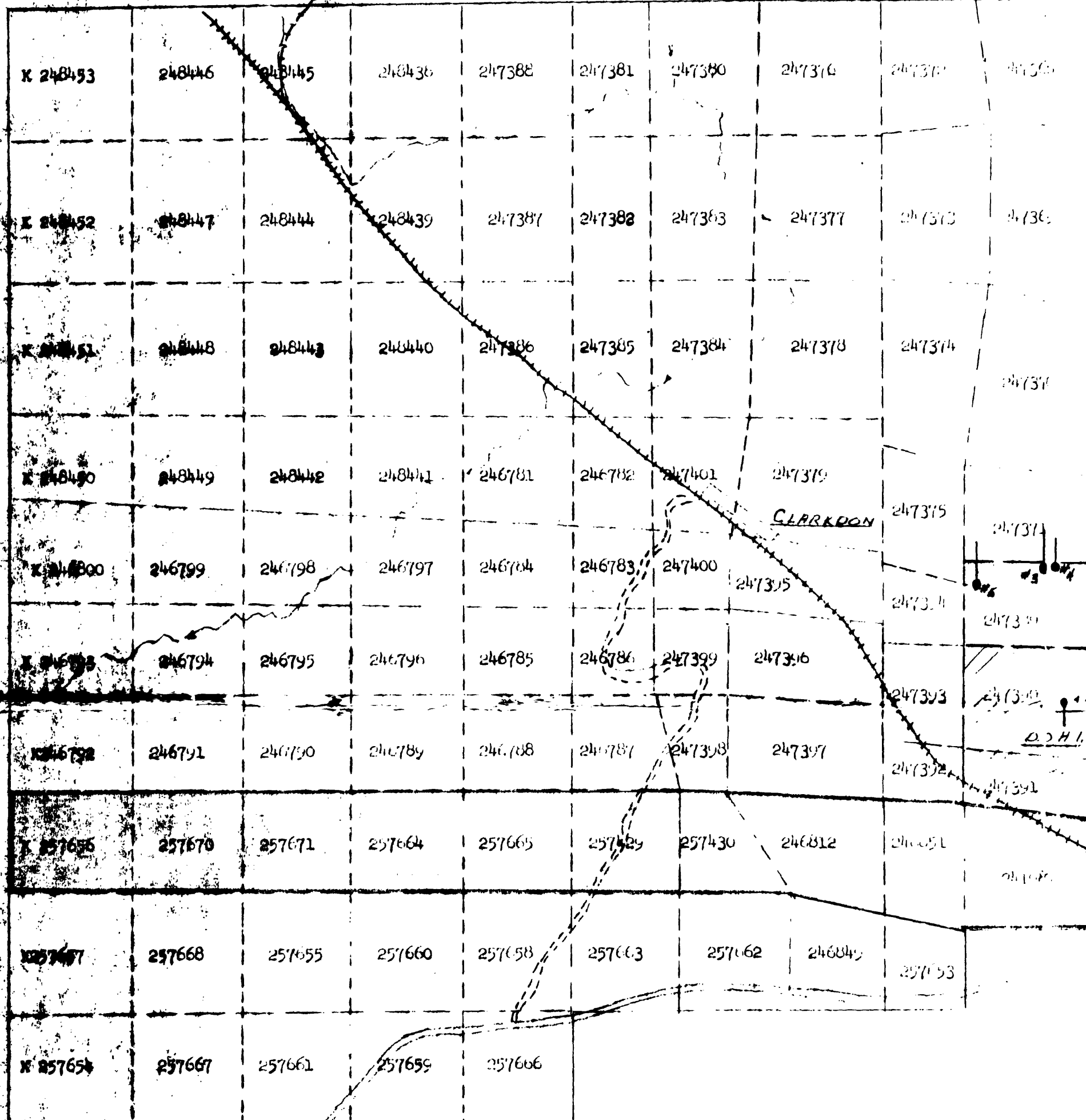
A DDH

DONE

VALORA

23.2

599



LOCATIONS OF DRILL HOLES

- D.D.H. No. 1 - 650' South, 400' West of P. 1, Cl. 247388
Drilled South at -45° to 341'
- D.D.H. No. 2 - 1180' South, 660' West of P. 1, Cl. 247388
Drilled North at -45° to 371'
- D.D.H. No. 3 - 650' West and 50' South of #1 Post, Claim 247389
Drilled North at -50° to 440'
- D.D.H. No. 4 - 500' West and 20' South of #1 Post, Claim 247389
Drilled North at -50° to 352'
- D.D.H. No. 5 - 1500' West and 300' South of #1 Post, Claim 247389
Drilled North at -50° to 341'

ASSESSMENT WORK GROUPING:
Reported January 28th, 1971.

<input type="checkbox"/>	K-203298 - K-203318 incl. (21)	
<input type="checkbox"/>	K-203483 - K-203498 incl. (16)	
<input type="checkbox"/>	K-250146 - K-250149 incl. (4)	
<input type="checkbox"/>	K-250130 (1), K-203499 - K-203502 incl. (4), K-257656, K-257670, K-257671, K-257664, K-257665, K-257429, K-257430, K-246812, K-246851, K-241980;	56 Claims @ 20 days ----- 1,120
<input type="checkbox"/>	K-247389	----- 13
	Total	----- 1,133 days



Valora Lake #10
NEW CALUMET - ZENMAC METAL MINES

PROPERTY PLAN - VALORA

DRILL HOLE LOCATIONS & ASSESSMENT GROUPINGS

SCALE: 1" = 1/4" MI.

JAN 13, 1971

52 G/14 SE - 0019 #2

