



42A12NE0600 15 LOVELAND

010

Diamond Drilling

Township of LOVELAND

Report NO: 15

Work performed by: MESPI MINES

Claim NO	Hole NO	Footage	Date	Note
P 53932	R.L. 2	524'	Feb/65	
	R.L. 3	353'	Feb/65	
	R.L. 4	708'	Feb/65	

1585'

Notes:

DIAMOND DRILL HOLE RECORD, DDH No 2.L. 2

PROPERTY Robb-Lowland Grid CLAIM P. 53932 SHEET No. 1

LATITUDE 50 00 N BEARING Due West (Grid West) STARTED February 21, 1965

DEPARTURE 46 00 N DIP. -45 deg. - collar; 47 deg @ 60 49 1/2 @ 500 COMPLETED February 24, 1965

ELEVATION _____ HORIZ. _____ VERT. _____ DEPTH 526 feet

DRILLED BY _____

P-5: 750
 REPORT #/C

DEPTH - FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	VALUES				ECONOMIC GEOLOGY MINERALIZATION
						Ag	As	Cu	Zn	
0 - 57	Casing									
57 - 122.2	Andesite; very fine grained, dark green chloritic with light very fine disseminated pyrite - numerous tiny carbonate stringers, some brownish weathered carbonate (andesite?) stringers & nodules - minor pyrite along chloritic sh. faces.									
123	2" carbonate veins with 10% pyrite at 36 deg core	839	122.2	123	0.6	Tr	0			Chloritic, pyritic andesite with brownish carbonate (andesite?) stringers
124-125	chloritic, carbonitized, 10-15% pyrite	840	124	125	2.0	Tr	Tr	Nil	0.30	Nil pyritic, chloritic, carbonitized andesite
150.2 - 151.8	Graphite - highly conductive with 1 1/2" quartz veins at contacts @ 51 deg core	841	151	153.5	3.5	Tr	Tr	Nil	0.36	Nil One foot of massive pyritic graphite and 2.5 feet pyritic, chloritic andesite
151.8-195	Dark grey-black fine grained, pyritic sediment considerable carbonate alteration									
	core broken at lower contact									

ENGINEER: J. Steer

DIAMOND DRILL HOLE RECORD, DDH No R.L. # 2

PROPERTY _____ CLAIM _____ SHEET No. 2

LATITUDE _____ BEARING _____ STARTED _____
 DEPARTURE _____ DIP. _____ COMPLETED _____
 ELEVATION _____ HORIZ. _____ VERT. _____ DEPTH _____

DRILLED BY _____

DEPTH - FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	VALUES				ECONOMIC GEOLOGY MINERALIZATION
155-161	Andesite fine grained, medium green, chloritic, carbonitized.									
161-192	Dark, fine grained, hard chilled looking andesite or andesitic dike, very lightly pyritized, many carbonate stringers.									
	177 - 1' altered by numerous carbonate stringers approx 15 deg core.									
192-230	Andesite tuff? Paler green very chloritic highly carbonitized carbonate disseminated in matrix and in fine hairlike stringers very light pyritization.									
230-234	Agpaitic tuff - medium grained gritty looking, pale greenish grey, uneven fracture, quartz rich, plus 15% pyrrhotite and pyrite.									

ENGINEER: *R. S. Jones*

DIAMOND DRILL HOLE RECORD, DDH No 1.1. # 2

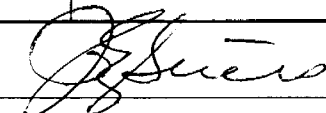
PROPERTY _____ CLAIM _____ SHEET No. 3

DEPARTURE _____ DIP. _____ COMPLETED _____
 ELEVATION _____ HORIZ. _____ VERT. _____ DEPTH _____

DRILLED BY _____

DEPTH - FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	VALUES				ECONOMIC GEOLOGY MINERALIZATION
						As	Ag	Cu	Zn	
234-236	Pyritized graphite, highly conductive	806	228.5	234	5.5	0.01	Tr	NL	0.13	NL Carbonitized, chloritic andesite with pyrite and pyrrhotite
236-246.5	Rhyolite tuff - sericitic, carbonate rich	807	234	239	5.0	Tr	Tr	0.03	0.35	NL Pyritized, pyrrhotitic, graphite
	heavily pyritized	808	239	244.5	5.5	0.01	Tr	0.03	0.38	NL
244.5-246.2	Graphite, pyritic & pyrrhotitic, numerous	809	244.5	246.5	2.0	Tr	Tr	0.05	0.23	0.03 Pyritized rhyolite tuff
	quartz stringers, siliceous banding	810	246.5	256.8	10.3	Tr	0.08	NL	0.80	0.04 Pyritized, pyrrhotitic graphite
	249-249 1' band fine grained dark grey									
	highly siliceous sediment marked by white	811	256.8	262.1	5.3	Tr	Tr	NL	1.35	0.08
	carbonate stringers 72 deg. core	812	262.1	265	2.9	Tr	Tr	0.50	1.23	NL Rhyolite tuff pyrite & pyrrhotite
262-261	Rhyolite tuff, fine grained light grey									
	1% pyrrhotite and pyrite	813	265	267.4	2.4	Tr	0.05	0.13	4.80	0.16 Massive pyrrhotite
	265-267.4 Massive pyrrhotite with traces of									
	sphalerite									
	270-281 Altered gneiss or tuff sericitic	814	267.4	270.9	3.5	0.01	0.03	NL	0.23	NL Rhyolite tuff with pyrite and pyrrhotite
	wood chloritized, darker and more basic.									
281-310	Sediment; light coloured, colour banded									
	highly siliceous, wellbedded with 1"									

ENGINEER: _____



DIAMOND DRILL HOLE RECORD, DDH No R.L. # 2

PROPERTY _____ CLAIM _____ SHEET No. 4

DEPARTURE _____ READING _____
 ELEVATION _____ DIP. _____ COMPLETED _____
 HORIZ. _____ VERT. _____ DEPTH _____

DRILLED BY _____

DEPTH - FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	VALUES				ECONOMIC GEOLOGY MINERALIZATION
	darker more mafic bands, a few lithic fragments, occasional tiny carbonate veins with minor sphalerite. Bedding 42 deg core									
310-314	Arkose-grey-sch. Thickly bedded, poorly sorted contacts gradational, a few large well rounded fragments.									
	314-314 becoming coarser, towards contact, fragments more numerous, contact 43 deg core.									
314-355	Andesite tuff, medium green, schistose, carbonitized, becoming darker and less siliceous with depth - highly pyritized									
355-365	Sphelite tuff: light grey, massive, unven fracture.									
	360-365 gradational contact zone									

ENGINEER: *[Signature]*

DIAMOND DRILL HOLE RECORD, DDH No 2.L. # 2

PROPERTY _____ CLAIM _____ SHEET No. 5

DEPARTURE _____ READING _____ STARTED _____
 ELEVATION _____ DIP. _____ COMPLETED _____
 HORIZ. _____ VERT. _____ DEPTH _____

DRILLED BY _____

DEPTH - FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	VALUES				ECONOMIC GEOLOGY MINERALIZATION
367-387	Andesite tuff to coarse intrusive looking dacitic porphyry.									
377-381	5% tiny quartz phenocrysts and 5-10% tiny feldspar phenocrysts - irre- gular distribution of carbonate in matrix.									
387-526	Gabbro: Dark, medium to coarse grained & becoming coarsely porphyritic 40% feldspar radially arranged.									
397	2" diabase (sheet 26 deg. core.									
403.6-405	Sheared and carbonitized 25 deg core									
405-406	Diabase fingers in gabbro									
406-409	Diabase-contact chilled 27 deg core inner contact irregular									
410-411.5	diabase with gabbro inclusions									
410-578	Gabbro									

ENGINEER: *J. Steers*

DIAMOND DRILL HOLE RECORD, DDH No R.L. # 2

PROPERTY _____ CLAIM _____ SHEET No. 6

LATITUDE _____ BEARING _____ AZIMUTH _____

DEPARTURE _____ DIP. _____ COMPLETED _____

ELEVATION _____ HORIZ. _____ VERT. _____ DEPTH _____

DRILLED BY _____

DEPTH - FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	VALUES				ECONOMIC GEOLOGY MINERALIZATION
477-491	Silicified, carbonized, considerable carbonization throughout matrix, matrix very coarse and black (amphibolized?) feldspars lath-shaped minor disseminated nickeliferous pyrrhotite with traces of chalcopyrite.									
	501 - END									

ENGINEER: *[Signature]*

DIAMOND DRILL HOLE RECORD, DDH No H.L. # 3

PROPERTY Robb-Cleveland grid CLAIM P. 53932 SHEET No. 1
 DEPARTURE 44 00 N BEARING One West (Grid West) STARTED February 25, 1965
 ELEVATION _____ DIP. - 45 deg. @ Collar COMPLETED February 28, 1965
 HORIZ. _____ VERT. _____ DEPTH 353 feet

DRILLED BY _____

DEPTH - FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	VALUES				ECONOMIC GEOLOGY MINERALIZATION
						As	Ag	Cu	Zn	
0 - 40	Overburden & Casing									
40 - 222	Andesite or Basalt: very fine grained, dark green to black, locally carbonized, very light disseminated pyrite and minor nickeliferous pyrrhotite	042	76.5	86	7.5	.01	Nil	.36	.23	Nil - Finely disseminated pyrrhotite and pyrite in dark green massive andesite, trace chalcopyrite
	87-130 Patchy alteration small zones, 1" - 3" wide, 1 to 2' apart, extreme biotite and chlorite development enclosing chloritic, whitish altered mafic pseudomorphs, patchy carbonate alteration and silicification numerous tiny shear zones 25 - 35 deg to core axis, much of the alteration is confined to these zones									

ENGINEER: *J. Peters*

DIAMOND DRILL HOLE RECORD, DDH No 31.13

PROPERTY _____

CLAIM _____

 SHEET No. 2

LATITUDE _____

DEPARTURE _____

ELEVATION _____

DIP. _____

HORIZ. _____

VERT. _____

COMPLETED _____

DEPTH _____

DRILLED BY _____

DEPTH - FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	VALUES				ECONOMIC GEOLOGY MINERALIZATION
	Occasionally coarse minor pyrite.									
	132-133 fine pyrite and pyrrhotite in matrix on schistose lenses parallel shearing approx. 5%									
	127 - 3" graphite, minor pyrrhotite, quartz carbonate violet parallel lower contact, 70 baggs massive core.									
	133-222 as above but without alteration zones, more regularly distributed biotite light disseminated pyrrhotite and small amounts of magnetite.									
	175-176 Shear zone foliation 4500g core									
222-235	Andesite: light grayish green, fine grained, numerous carbonate stringers, core broken at contact.									
	232-235 silicified breccia zone.									

ENGINEER: _____



DIAMOND DRILL HOLE RECORD, DDH No R.L. # 3

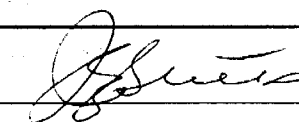
PROPERTY _____ CLAIM _____ SHEET No. 3

DEPARTURE _____ BEARING _____ STARTED _____
 ELEVATION _____ DIP. _____ COMPLETED _____
 HORIZ. _____ VERT. _____ DEPTH _____

DRILLED BY _____

DEPTH - FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	VALUES				ECONOMIC GEOLOGY MINERALIZATION
235 - 269	Andesite of Basalt - dark green to black with sparsely disseminated pyrobbite as above.									
269 - 280	Andesite lighter coloured, fine grained gritty appearing (taffy)									
280-353	Dark andesite as before light pyrobbite very chloritic, a few carbonate stringers may have been porphyritic before alteration									
	XII pyrobbite in silicified shear zone @ 30 deg. core.									
	309-310) XI pyrobbite and grite.									
	321-325)									
	327.5									
	334.5 3" silicification @ 35-40 deg core									
	Trace grite in last 4 feet									
	353 353									

ENGINEER: _____



DIAMOND DRILL HOLE RECORD, DDH No

R.L. # 4 *Mespi Mines*

PROPERTY Robb-Loveland

CLAIM _____

SHEET No. _____

LATITUDE _____

BEARING Grid W.

STARTED _____

DEPARTURE 50 00 N

DIP. - 45 degrees @ collar

COMPLETED _____

ELEVATION 44 00 W

HORIZ. _____ VERT. _____

DEPTH 708

DRILLED BY Continental Diamond Drilling

DEPTH - FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	VALUES				ECONOMIC GEOLOGY MINERALIZATION
0 - 66	Casing									
66 - 248	Andesite, dark green, very fine grained, massive local narrow highly carbonitized zones, few thin fractures with a filament of pyrite, locally heavy biotite alteration. @ 117, 121 narrow shear zone silicified and carbonitized carbonate rusty weathering foliation about 37 deg to core.									
	139 - 145 badly fractured heavily silicified.									
248-254	Fine grained, light grey siliceous sediment, suggestion of a few vague fragment, lower contact vague, approx. 40 deg to core.									
254 - 318	Andesite as above									
318 - 347	Siliceous Siliceous sediments, very fine grained									

ENGINEER: _____

DIAMOND DRILL HOLE RECORD, DDH No R.L. # 4

PROPERTY _____ CLAIM _____ SHEET No. 2

LATITUDE _____ BEARING _____ STARTED _____

DEPARTURE _____ DIP. _____ COMPLETED _____

ELEVATION _____ HORIZ. _____ VERT. _____ DEPTH _____

DRILLED BY _____

DEPTH - FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	VALUES				ECONOMIC GEOLOGY MINERALIZATION
	light grey, intensely carbonitized.									
	327-328, carbonaceous with 3" graphite									
	and little pyrite, contact is irregular									
	approx. 36 deg to core.									
	328 - 335 About 8% combined pyrite, pyr-									
	rotite, sphalerite.									
	333-335 80% graphite, light disseminated									
	sulphides.									
	335½-338 Graphite with light pyrite,									
	pyrrhotite.									
	338 - 347, colour banded, well bedded,									
	siliceous sediments, bedding avr. 53 deg.									
	to core.									
347 - 354.5	Diabase? fine grained light green intense-									
	ly altered.									
354.5-382	Colour band siliceous sediments as above									

ENGINEER: _____

DIAMOND DRILL HOLE RECORD, DDH No. R.L. # 4

PROPERTY _____ CLAIM _____ SHEET No. 3

LATITUDE _____ BEARING _____ STARTED _____

ELEVATION _____ HORIZ. _____ VERT. _____ COMPLETED _____

DEPTH _____

DRILLED BY _____

DEPTH - FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	VALUES				ECONOMIC GEOLOGY MINERALIZATION
	locally a few coarse angular fragments@	371								
	Bedding 40 deg to core.									
382 - 400	Diabase, intensely carbonitized and biotitized, lower contact very sharp, approx. 30 deg to core.									
400 - 420	Colour banded well bedded siliceous sediments locally fragmental as before.									
420 - 430	Basic dike, aphanitic, black.									
430 - 478.5	Siliceous sediments, as before.									
478.5-507	Basic dike, chilled fine grained, very dark									
507-559	Siliceous sediments as before bedding avg. 59 deg to core									
559 - 590	Andesite, fine grained, light green equigranular, bleached highly carbonitized									
590 - 641	Siliceous sediments as before, carbonitized sparse disseminated pyrrhotite.									

ENGINEER: _____

DIAMOND DRILL HOLE RECORD, DDH No R.L. # 4

SHEET No. 4

PROPERTY _____ CLAIM _____
 LATITUDE _____ BEARING _____ STARTED _____
 DEPARTURE _____ DIP. _____ COMPLETED _____
 ELEVATION _____ HORIZ. _____ VERT. _____ DEPTH _____
 DRILLED BY _____

DEPTH - FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	VALUES				ECONOMIC GEOLOGY MINERALIZATION
641-708	Andesite, fine grained, bleached, heavily carbonitized.									
	708 END									

ENGINEER: _____

MOBERLY
BYERS

THORBURN
LOVELAND

BYERS GRID

MESPI MINES LTD.
LOVELAND-BYERS CLS.
SCALE 1"=1320'

LOCATION MAP.

ROBB-LOVELAND
GRID

BYERS
COTE

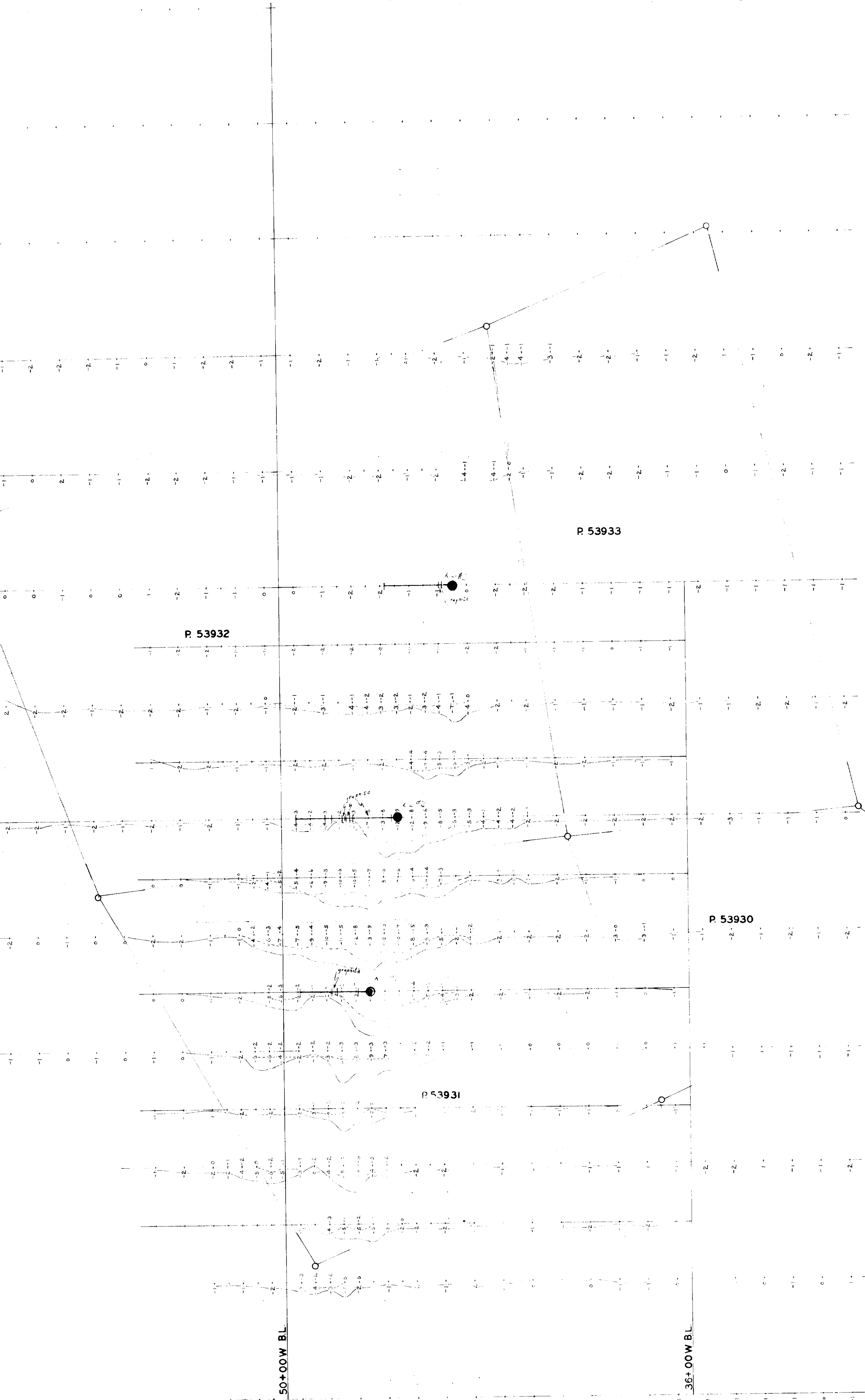
RC3B
LOVELAND



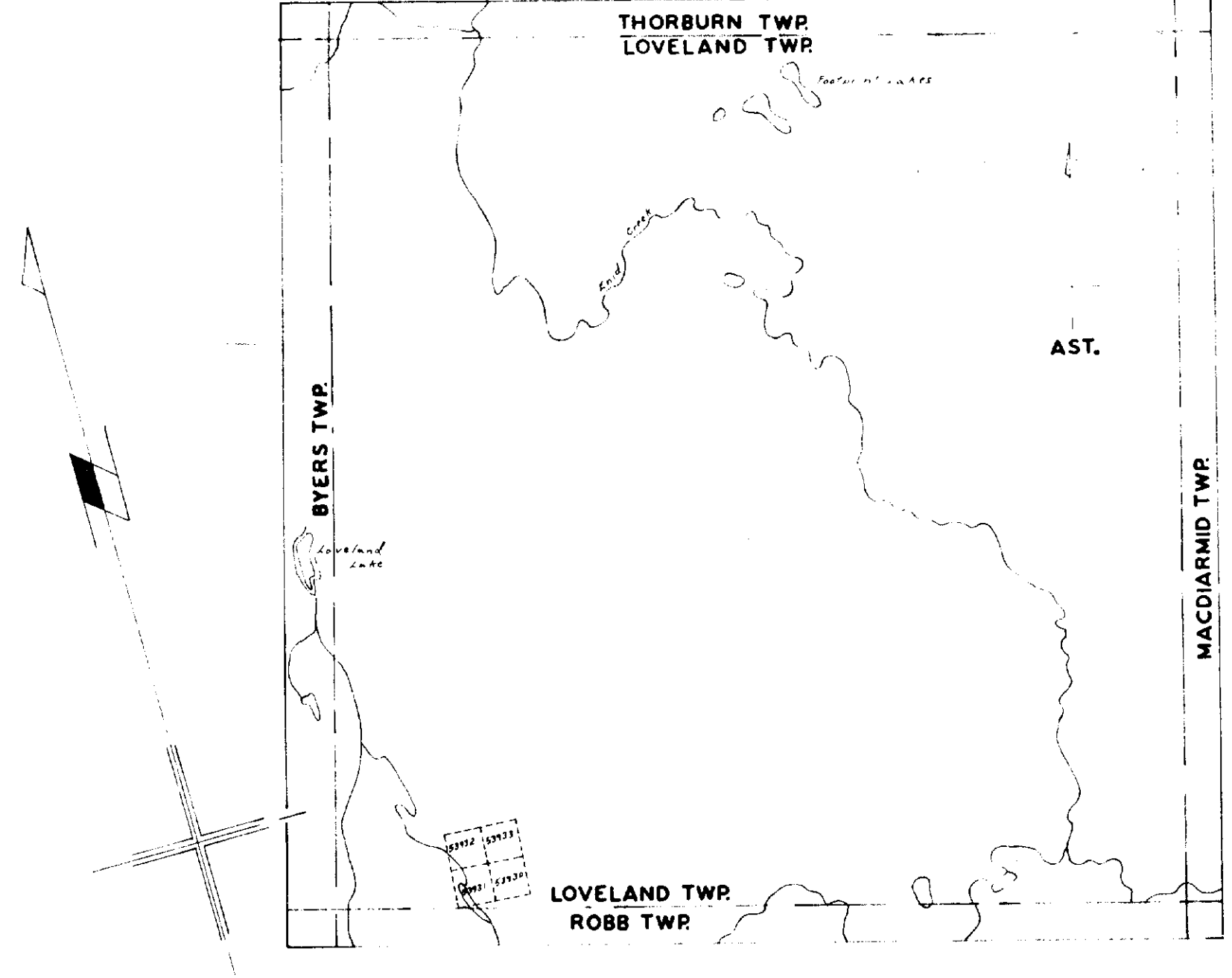
42412NE9800 15 LOVELAND

200

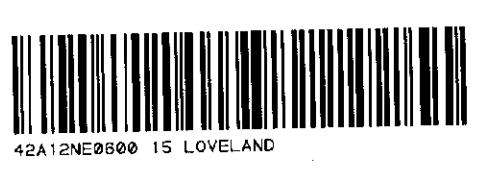
78 N
74 N
70 N
66 N
62 N
58 N
56 N
54 N
52 N
50 N
48 N
46 N
44 N
42 N
40 N
38 N
36 N
34 N



30+00 BASE LINE



MESPI MINES LTD.
ELECTRO-MAGNETIC SURVEY
ROBB-LOVELAND GRID
INSTRUMENT: CRONE J.E.M.
DUAL FREQUENCY: IN-LINE METHOD
COILS 300' APART
MAP SCALE: 1"=200'
LEGEND



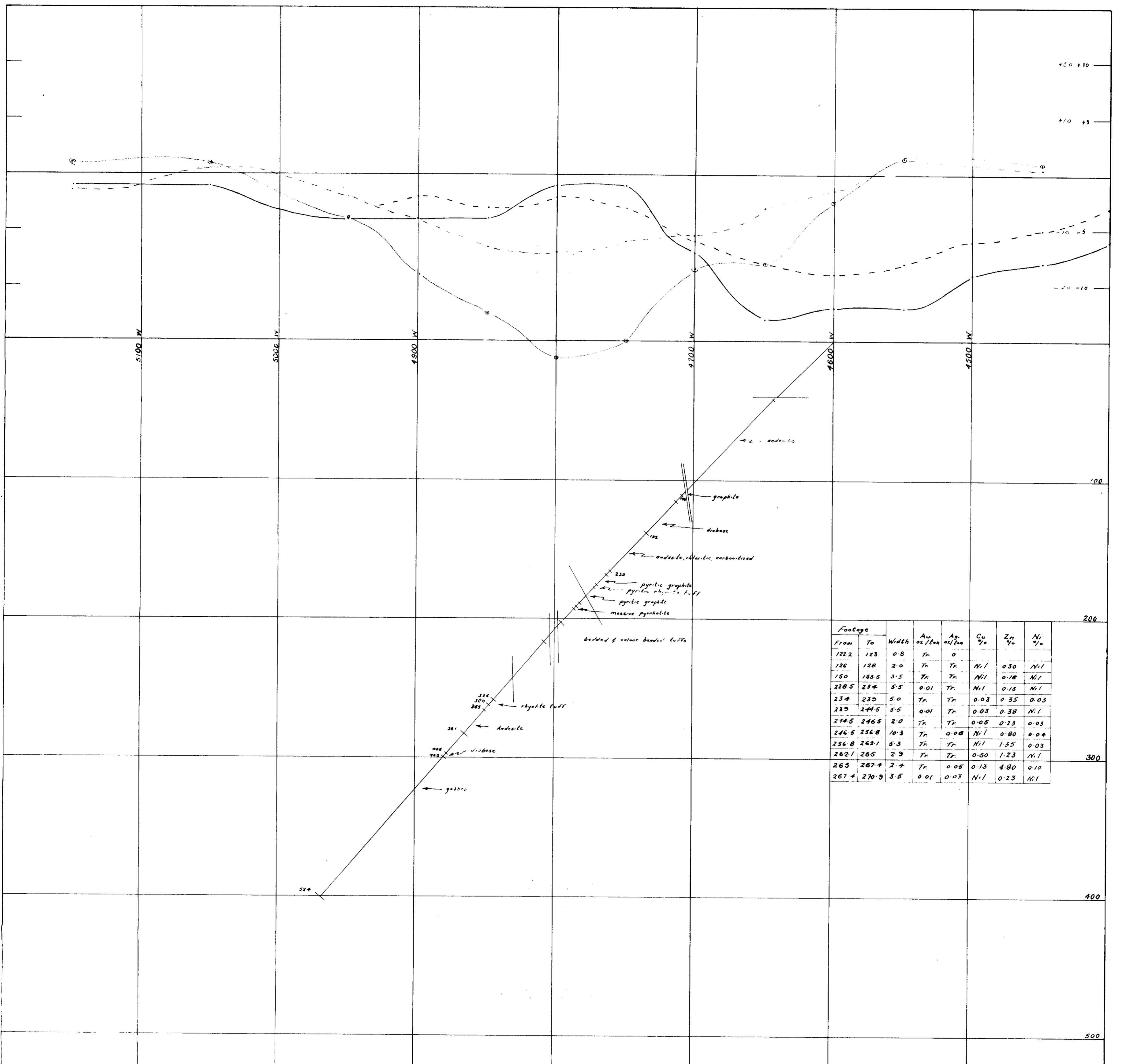


Footage		Width	Au oz/ton	Ag oz/ton	Cu %	Zn %	Ni %
From	To						
122.2	123	0.8	Tr	0			
126	128	2.0	Tr	Tr	Ni	0.30	Ni
150	158.5	3.5	Tr	Tr	Ni	0.18	Ni
228.5	234	5.5	0.01	Tr	Ni	0.15	Ni
234	237	5.0	Tr	Tr	0.03	0.55	0.03
237	244.5	5.5	0.01	Tr	0.03	0.38	Ni
244.5	246.5	2.0	Tr	Tr	0.05	0.23	0.03
246.5	256.8	10.3	Tr	0.08	Ni	0.80	0.04
256.8	262.1	5.3	Tr	Tr	Ni	1.55	0.03
262.1	265	2.9	Tr	Tr	0.50	1.23	Ni
265	267.4	2.4	Tr	0.05	0.13	4.80	0.10
267.4	270.9	3.5	0.01	0.03	Ni	0.23	Ni

MESPI MINES LTD.
 ROBB-LOVELAND GRID
 D.D.H R.L. # 2 5 4
 SECTION ALONG 5000 N
 LOOKING NORTH

Scale 1" = 40'
 Ranko 300' in-line I.P. } Vertical Scale 1" = 10%
 O.P. }
 Crane J.E.M 300' in-line Hi 0 } Vertical Scale 1" = 5"
 Low }
 Mar 9/65





Footage		Width	Au oz/ton	Ag oz/ton	Cu %	Zn %	Ni %
From	To						
122.2	123	0.8	Tr	0			
126	128	2.0	Tr	Tr	Nil	0.30	Nil
150	158.5	8.5	Tr	Tr	Nil	0.18	Nil
228.5	234	5.5	0.01	Tr	Nil	0.15	Nil
234	235	1.0	Tr	Tr	0.03	0.35	0.03
235	244.5	9.0	0.01	Tr	0.03	0.38	Nil
244.5	246.5	2.0	Tr	Tr	0.05	0.23	0.03
246.5	256.8	10.3	Tr	0.08	Nil	0.80	0.04
256.8	262.1	5.3	Tr	Tr	Nil	1.35	0.03
262.1	265	2.9	Tr	Tr	0.50	1.23	Nil
265	267.4	2.4	Tr	0.05	0.13	4.80	0.10
267.4	270.3	2.9	0.01	0.03	Nil	0.23	Nil

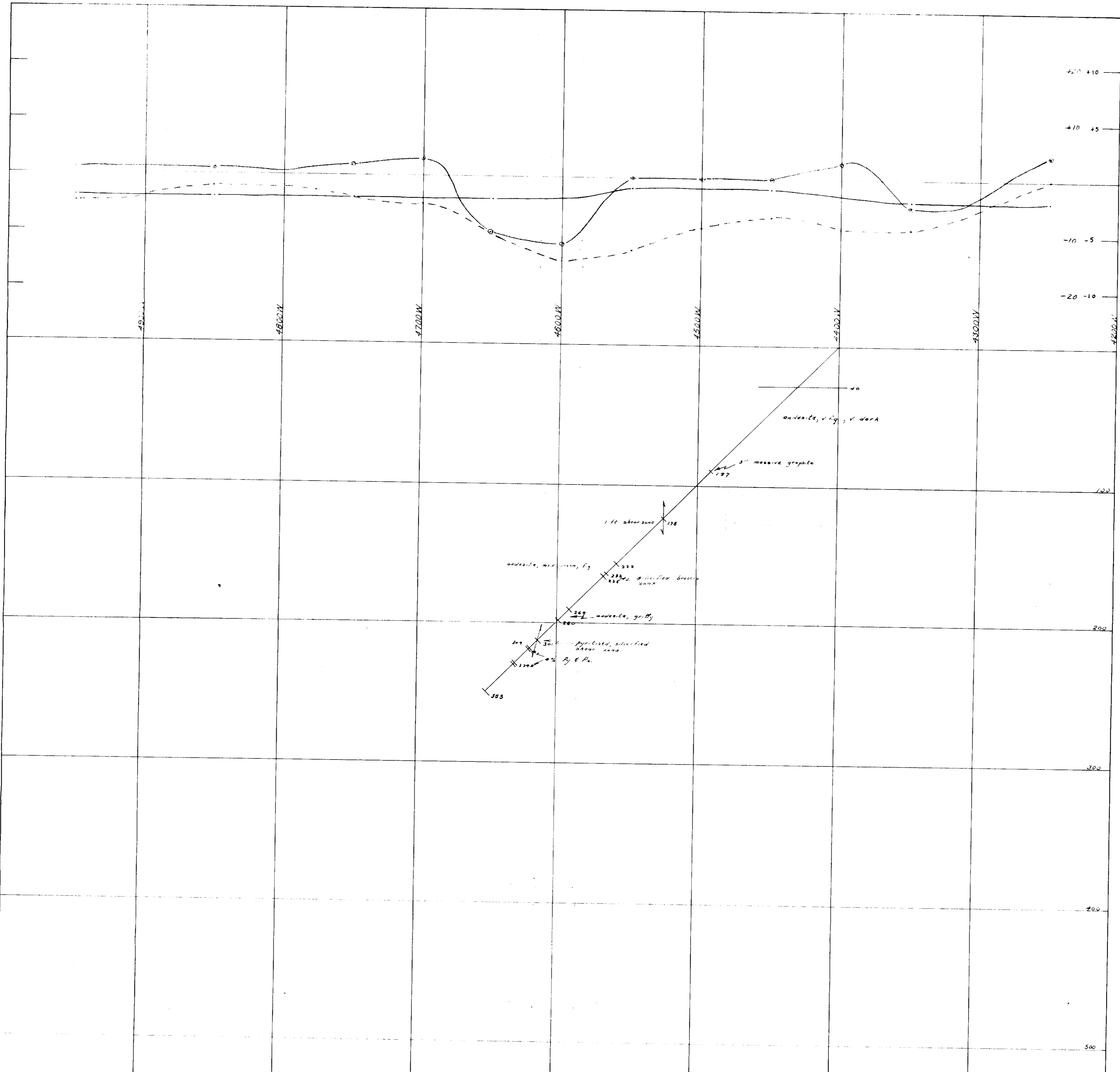
MESPI MINES LTD.
 ROBB-LOVELAND GRID
 D.D.H. R.L. #2
 SECTION ALONG 5000 N
 LOOKING NORTH

Scale 1" = 40'
 Ranko 300' in-line I.P. } Vertical Scale 1" = 10%
 O.P. }
 Crane J.E.M. 300' in-line Hi } Vertical Scale 1" = 5"
 Low }
 Mar 9/65 J.S. Lewis



42A12NE8600 15 LOVELAND

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MESPI MINES LIMITED
ROBB-LOVELAND GRID
D.D.H. R.L.#3
 SECTION ALONG 56+00N
 LOOKING NORTH
 Scale 1" = 40'
 Rank 300' in-line I.P.W. Vertical Scale 1" = 10%
 Crane J.E.M. 300' in-line H.P. Vertical Scale 1" = 5"
 low
 Mar 12/65



42A12NE8603 15 LOVELAND