

DIAMOND DRILL RECORD

PROPERTY CHRYA MINES LTD. HOLE NO. 1

SHEET NUMBER 1 SECTION FROM 0.0 TO 195.6 STARTED Sept 30/54

LATITUDE 6440 N DATUM _____ COMPLETED 5/54

DEPARTURE 5460 W B.L. No. 1 BEARING S 58 W (est) ULTIMATE DEPTH 187.9

ELEVATION _____ DIP 45 @ 300.0' PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD g	SLUDGE GOLD g
0.0 - 10.0	Casing				
10.0 - 27.7	Nepheline Diorite (3A) Alteration Rock 16.3' - 17.2' Greenstone (6)				
27.7 - 31.3	Blotite Pyroxene Gneiss (5)				
31.3 - 85.8	Nepheline Gabbro (3B) Alteration Rock Magnetite 10-30%, radioactive.				
85.8 - 91.5	Nepheline Syenite (2) upper contact at Lower " " 60 " "	55 to core			
91.5 - 107.6	Nepheline Gabbro (3B) Alteration Rock 95.0' - 103.0' Massive crystalline magnetite, radioactive.				
107.6 - 115.3	Nepheline Syenite (2)				
115.8 - 137.2	Nepheline Diorite (3A) Alteration Rock				
137.2 - 142.0	Blotite Pyroxene Gneiss Lower contact at 55 to core				
142.0 - 155.2	Nepheline Diorite (3A) 142.4' - 142.8' massive magnetite				
155.2' - 171.0	Blotite Pyroxene Gneiss, magnetite 2-10%, radioactive				
171.0 - 195.6	Nepheline Diorite (3A) Alteration Rock 173.2' - 175.1' Greenstone (6) 182.5' - 184.0' " " 187.9' - 191.5' Blotite Pyroxene Gneiss (5)				

N.M.P. TORONTO-STOCK FORM NO. 501 REV. 12/51

DRILLED BY Canadian Longgear Ltd.

SIGNED [Signature]

DIAMOND DRILL RECORD

PROPERTY CHRYA MINES LTD.

HOLE NO. 1

SHEET NUMBER 2

SECTION FROM 195.6 TO 471.9

STARTED Sept. 30/54

LATITUDE 64 40 N

DATUM

COMPLETED Oct 5/54

DEPARTURE 54 60 W

BEARING 9 58 W (east)

ULTIMATE DEPTH 84y

ELEVATION

DIP 45 @ collar
45 @ 300.0'

PROPOSED DEPTH -

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUGGET GOLD \$
195.6 - 230.3	Blotite Pyroxene Gneiss (5) very fine grained, 10-30% radiolarite. Disseminated magnetite 10-40% at 35 to core.				
215.0' - 218.6'	massive crystalline magnetite				
221.7' - 224.5'	" "				
230.3 - 243.6	Nepheline Diorite, feldspathic				
243.6 - 246.9	Blotite Pyroxene Gneiss				
244.6' - 245.6'	massive crystalline magnetite				
246.9 - 269.0	Nepheline Syenite (2)				
269.0 - 276.3	Greenstone (6)				
276.3 - 391.0	Nepheline Diorite (3A) Alteration Rock. 294.9' - 298.3' Feldspathic with reddish mineral				
327.4' - 329.0'	Blotite Carbonate Gneiss - feldspathic				
391.0 - 400.8	Greenstone (6)				
400.8 - 403.4	Blotite Pyroxene Gneiss (5) very fine grained.				
403.4 - 410.0	Nepheline Diorite (3A) Alteration Rock.				
410.0 - 454.7	Nepheline Syenite (2)				
454.7 - 471.9	Blotite Pyroxene Gneiss, disseminated magnetite				
	10-20%				

N.M.P. TORONTO-STOCK FORM NO 501 REV 12/51

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Michael [Signature]

DIAMOND DRILL RECORD

PROPERTY CHYKA MINES LTD.

HOLE NO. 1

SHEET NUMBER 3

SECTION FROM 471.0 TO 701.0

STARTED Sept 30/54

LATITUDE 64° 0' N

DATUM

COMPLETED Oct 5/54

DEPARTURE S 60° W B.L. No. 1

BEARING S 58° E (nat)
45° @ collar

ULTIMATE DEPTH 84

ELEVATION

DIP 45 @ 300.0'

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD g	BLUES G
471.9 - 476.5	Biotite Carbonate Gneiss (4)				
476.5 - 549.0	Nepheleine Diorite (3A) alteration rock 476.5 - 518.0 Feldspathic & brecciated				
549.0 - 550.7	Basal Dike (1A) contacts at 40 to zone				
550.7 - 583.0	Nepheleine Diorite (3A) alteration rock				
583.0 - 586.7	Lamprophyre Dike (1B)				
586.7 - 595.0	Nepheleine Diorite (3A) alteration rock				
595.0 - 601.0	Biotite Pyroxene Gneiss (5) disseminated magnetite 10-20%				
601.0 - 609.3	Nepheleine Syenite (2)				
609.3 - 613.6	Nepheleine Diorite (3A) alteration rock				
613.6 - 622.0	Lamprophyre Dike (1B)				
622.0 - 625.7	Biotite Carbonate Gneiss (4)				
625.7 - 650.0	Nepheleine Diorite (3A) alteration rock				
650.0 - 653.8	Nepheleine Syenite (2)				
653.8 - 671.7	Biotite Pyroxene Gneiss, disseminated magnetite 40 - 60% to matrix.				
671.7 - 678.8	Nepheleine Diorite (3A)				
678.8 - 697.5	Nepheleine Gabbro (3B) disseminated magnetite 10 - 20%				
697.5 - 701.0	Nepheleine Syenite (2)				

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Sylvester S. ...

DIAMOND DRILL RECORD

PROPERTY CHRYALITHES LTD.

HOLE NO. 1

SHEET NUMBER A

SECTION FROM 701.0 TO 843.0

STARTED Sept 30/54

LATITUDE 64° 40' N

DATUM

COMPLETED Oct 5/54

DEPARTURE S+60 W B.L. No. 1

BEARING S 58 W (ast)

ULTIMATE DEPTH 843

ELEVATION

DIP 45 - collar
45 - 300.0'

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD g	SLUGS OF GOLD
701.0 - 722.4	Nepheline Gabbro (3B) disseminated magnetite	10-30%			
722.4 - 726.0	Nepheline Diorite (3A) alteration rock				
726.0 - 740.6	Nepheline Gabbro (3B) alteration rock				
740.6 - 759.3	Basalt Dike (1A) low angle contacts				
759.3 - 766.5	Nepheline Gabbro (3B) alteration rock				
766.5 - 767.5	Basalt Dike (1A)				
767.5 - 780.2	Nepheline Gabbro (3B)				
780.2 - 794.5	Greenstone (6)				
794.5 - 822.0	Nepheline Diorite (3A) alteration rock				
822.0 - 837.4	Biotite Carbonate Gneiss (4) Feldspathic and nephelized				
837.4 - 843.0	Nepheline Diorite (3A)				
End of Hole					

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Richard Stewart

DIAMOND DRILL RECORD

PROPERTY ORCA KING LTD.

HOLE NO. 2

SHEET NUMBER 1

SECTION FROM 0.0 TO 188.2

STARTED ON 3/54

LATITUDE 04 00 N

DATUM

COMPLETED 6/54

DEPARTURE 2420 W No. 1 N.L.

BEARING S 55 W (ant)

ULTIMATE DEPTH 526

ELEVATION

DIP 45

PROPOSED DEPTH

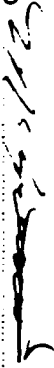
DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	BLUDDER GOLD \$
0.0 - 26.0	Casing				
26.0 - 69.1	Nepheline Diorite (3A)				
	38.0 - 42.1 heavy disseminated to crystalline massive magnetite.				
	40.8 - 40.9 sample sent for spectro-analysis				
	Inclusions of (4) varying from 1/4" to 3/4" in length.				
	Sections in syenitic				
	64.1 - 64.2 sent for spectro-analysis				
69.1 - 83.4	Biotite Carbonate Gneiss (4)				
83.4 - 86.7	Nepheline Diorite (3A)				
86.7 - 90.3	Biotite Carbonate Gneiss (4)				
90.3 - 138.4	Nepheline Diorite (3A)				
	116.2 - 117.3 considerable reddish mineral within nepheline, occurring as ribbons and globules.				
	124.4 - 138.4 lightly disseminated magnetite, negligible pyrrhotite.				
138.4 - 147.1	Nepheline Syenite (2)				
147.1 - 150.0	Biotite Carbonate Gneiss (4)				
150.0 - 156.7	Nepheline Diorite (3A) greater than 5% magnetite.				
156.7 - 161.5	Basal Dike				
161.5 - 188.2	Nepheline Diorite (3A)				

N.M.P. TORONTO-STOCK FORM NO. 501 REV 12/51

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DIAMOND DRILL RECORD

PROPERTY GRONV HILLS LTD. HOLE NO. 2

SHEET NUMBER 2 SECTION FROM 188.2 TO 494.0 STARTED 001 3/54

LATITUDE 0400 N DATUM _____ COMPLETED 001 6/54

DEPARTURE 2+20 W No. 1, N.L.L. BEARING S 55 W ULTIMATE DEPTH 526

ELEVATION _____ DIP 45 PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD g	SLUDGE GOLD g
188.2 - 190.5	Greenstone (6)				
190.5 - 193.0	Kepbeline Diorite (3A)				
193.0 - 194.0	Diorite Carbonate Gneiss (4)				
194.0 - 209.3	Kepbeline Diorite (3A)				
209.3 - 215.3	Kepbeline Syenite (2)				
215.3 - 233.0	Kepbeline Gabbro (3B)				
233.0 - 239.5	Kepbeline Syenite (2)				
239.5 - 240.1	Kepbeline Gabbro (3B)				
240.1 - 275.5	Kepbeline Syenite (2)				
	271.5 - 272.5 Greenstone (6)				
275.5 - 285.6	Greenstone (6) cut by small dikes of 2				
285.6 - 288.9	Kepbeline Syenite (2)				
288.9 - 303.6	Greenstone (6)				
303.6 - 309.3	Kepbeline Syenite (2)				
309.3 - 316.4	Basal Dike				
316.4 - 459.5	Kepbeline Diorite (3A) 2-5% magnetite Inclusions of (4) and (2) varying from 2" to 6"				
459.5 - 463.0	Greenstone (6)				
463.0 - 467.9	Kepbeline Diorite (3)				
467.9 - 489.4	Diorite Carbonate Gneiss (4) some free carbonate				
489.4 - 494.0	Kepbeline Syenite (2)				

N.M.P. TORONTO-STOCK FORM NO 501 REV. 12/51

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DIAMOND DRILL RECORD

PROPERTY CHYKA MINES LTD.

HOLE NO. 3

SHEET NUMBER 1

SECTION FROM 0.0 TO 207.0

STARTED Oct 7/54

LATITUDE 8+20 N

DATUM

COMPLETED Oct 9/54

DEPARTURE 2+80 W B.L. No. 1

BEARING θ 58 W (east)

ULTIMATE DEPTH 501

ELEVATION

DIP 45

PROPOSED DEPTH -

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD g	BLUESG GOLD g
0.0 - 16.0	Crating				
16.0 - 77.2	Nepheline Diorite (3A) alteration rock				
	25.0' - 26.0' Grenstone (6)				
	30.0' - 38.0' Brecciated, feldspathic and generally altered rock.				
	38.0' - 42.0' Essentially basic pyroxene or amphibole. Schistite at 30 to core				
	50.0' - 68.0' More acidic, slightly radioactive				
	Un-identified red mineral present.				
77.2 - 78.2	Greenstone (6) upper contact at 35				
78.2 - 98.3	Nepheline Diorite (3A) alteration rock				
98.3 - 100.1	Basal Dike (1A)				
100.1 - 113.0	Nepheline Diorite (3A) alteration rock				
113.0 - 116.7	Greenstone (6) magnetite 5-10%				
116.7 - 150.4	Nepheline Diorite (3A) alteration rock				
	135.7' - 142.0' Feldspathic with reddish mineral.				
150.4 - 167.0	Nepheline Gabbro (3B) alteration rock				
	crystaline magnetite 5-15%				
167.0 - 205.2	Nepheline Diorite (3A) alteration rock				
205.2 - 207.0	Greenstone (6) same as 113.0' - 116.7'				

N.M.P. TORONTO-STOCK FORM NO. 501 REV. 12/51

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DIAMOND DRILL RECORD

PROPERTY CERRA MINES LTD. HOLE NO. 3

SHEET NUMBER 2 SECTION FROM 207.0 TO 501.0 STARTED Oct 7/54
 LATTITUDE 84°20' North DATUM _____ COMPLETED Oct 9/54

DEPARTURE 2780 West B.L. No. 1 BEARING S 58 W (Act) ULTIMATE DEPTH 501

ELEVATION _____ DIP 45 PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD \$	BURDEN OF GOLD \$
207.0 - 282.7	Nepheline Diorite (3A) crystalline magnetite 10-15%				
	259.5 - 261.0 Massive crystalline magnetite				
	280.2 - 282.7 " "				
282.7 - 285.1	Blotite Pyroxene Gneiss (5)				
285.1 - 307.4	Nepheline Diorite, highly feldspathic				
307.4 - 311.0	Massive crystalline magnetite				
311.0 - 328.9	Nepheline Diorite (3A) alteration rock				
328.9 - 348.0	Nepheline Gabbro (3B)				
348.0 - 433.8	Nepheline Diorite (3A)				
433.8 - 444.2	Greenstone (6)				
444.2 - 464.5	Nepheline Diorite (3A) alteration rock				
464.5 - 477.1	Blotite Carbonate Gneiss (4) feldspathic & precipitated.				
477.1 - 499.5	Nepheline Diorite (3A)				
499.5 - 501.0	Greenstone (6) graphitic				
	End of Hole				

N.M.F. TORONTO-STOCK FORM NO 501 REV. 12/51

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DIAMOND DRILL RECORD

PROPERTY CHYKA MINES LTD.

HOLE NO. 4

SHEET NUMBER L 1

SECTION FROM 0.0 TO 348.0

STARTED 8/54

LATITUDE 1+90 North

DATUM

COMPLETED 10/54

DEPARTURE 0+40 E No. 1 B.L.

BEARING S 55 W (ast)

ULTIMATE DEPTH 503

ELEVATION

DIP 45

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	BLUDGEON GOLD \$
0.0 - 10.3	Casing				
10.3 - 25.0	Nepheline Diorite (3A) alteration rock Feldspathic				
23.0 - 47.5	Biotite Pyroxene Gneiss (5) fine grained Magnetite 10%-20%. Carbonated.				
47.5 - 50.0	Basal Dike (1A) conformable contact at 50 to core.				
50.0 - 130.2	Nepheline Diorite (3A) strongly feldspathic				
130.2 - 177.3	Nepheline Syenite (2)				
177.3 - 188.7	Biotite Pyroxene Gneiss (5) magnetite 10-20%				
188.7 - 192.0	Nepheline Diorite (3A) alteration rock Heavy disseminated to massive magnetite				
192.0 - 198.2	Biotite Carbonate Gneiss (4)				
198.2 - 230.8	Nepheline Diorite (3A) feldspathic and hematitic 218.0 - 220.5 No. (5) very fine grained 222.6 - 224.0 " " "				
230.8 - 254.0	Nepheline Syenite 252.0' - 254.0' Lost Core				
254.0 - 348.0	Nepheline Diorite (3A) alteration rock 260.8' - 264.1' Amphibolite, little magnetite.				

N.M.P. TORONTO-STOCK FORM NO. 501 REV. 12/51

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SIGNED Mark Swartz

DIAMOND DRILL RECORD

PROPERTY CHYKA MINES LTD. HOLE NO. 5

SHEET NUMBER 1 SECTION FROM 0.0 TO 443.2 STARTED Oct 10/54

LATITUDE 7470 North DATUM _____ COMPLETED Oct 12/54

DEPARTURE 1450 W B.L. 1 BEARING S 58 W (ast) ULTIMATE DEPTH 452

ELEVATION _____ DIP 45 PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0.0 - 16.0	Casing				
16.0 - 192.6	Nepheline Diorite (3A) alteration rock nepheline rich. 30.0' - 45.0' Nepheline gabbro (3B) magnetite greater than 5%, less than 20%. 39.0' - 40.0' massive crystalline magnetite, slightly radioactive. 86.0' - 95.0' considerable biotite. 100.0' - 101.3' greenstone facies 106.0' - 106.7' greenstone facies 128.5' - 133.3' feldspathic 168.4' - 171.0' gneiss at 50 to core. 171.0' - 179.0' feldspathic				
192.6' - 196.5	Basal Dike				
196.6 - 443.2	Nepheline Diorite (3A) Alteration Rock 222.6' - 238.1' feldspathic, crystalline magnetite 10-15% 247.6' - 256.9' heavy disseminated to massive magnetite. Radioactivity 2 times background				

N.M.P. TORONTO-STOCK FORM NO. 501 REV. 12/51

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SIGNED M. J. [Signature]

DIAMOND DRILL RECORD

PROPERTY CHYKA MINES LTD.

HOLE NO. 6

SHEET NUMBER 1

SECTION FROM 0.0 TO 300.0

STARTED Oct/12/54

LATITUDE 13 40 S

DATUM

COMPLETED Oct/13/54

DEPARTURE 6 60 W No. 1 B.L.

BEARING N 68 W (act)

ULTIMATE DEPTH 300

ELEVATION

DIP 45

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD g	BLUES G
0.0 - 11.0	Casing				
11.0 - 71.9	Nepheleine Diorite (3A) alteration rock				
71.9 - 75.5	Nepheleine Syenite (2)				
75.5 - 84.5	Nepheleine Diorite (3A) alteration rock				
84.5 - 85.3	Lamprophyre (1B)				
85.3 - 87.0	Nepheleine Diorite (3A) alteration rock				
87.0 - 90.3	Lamprophyre Dike (1B)				
90.3 - 182.8	Nepheleine Diorite (3A) contains narrow bands of (4) 160.5 - 162.0 Nepheleine Syenite (2) 163.3 - 179.4 Crystalline Magnetite heavy disseminated to massive. 174.5 - 176.0 Biotite Carbonate Gneiss (4) less than 5% magnetite.				
182.8 - 185.4	Nepheleine Syenite (2)				
185.4 - 298.5	Nepheleine Diorite (3A) alteration rock 245.3 - 248.3 Lamprophyre Dike (1B) 278.4 - 298.5 magnetite, 5-10% Nepheleine Syenite (2)				
298.5 - 300.0	End of Hole				

N.M.P. TORONTO-STOCK FORM NO 501 REV 12/51

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CHYKA MINES LIMITED
Sample Assay Sheet
Diamond Drill Hole No. 6

<u>Sample No.</u>	<u>From</u>	<u>To</u>	<u>Core Length</u>	<u>Assay</u> <u>Niobium %</u>	<u>Iron %</u>
CH-16	163.3'	171.3'	8.0'	_____	_____
CH-17	171.3'	179.4'	8.1'	_____	_____
CH-18	278.4'	288.4'	10.4'	_____	_____
CH-19	288.4'	298.5'	10.1'	_____	_____


Michael Zurewski

DIAMOND DRILL RECORD

PROPERTY CHICKA MINES LTD.

HOLE NO. 7

SHEET NUMBER 2

SECTION FROM 0.0' TO 213.7'

STARTED Oct. 14/54

LATITUDE 74°20' N No. 1. B.L.

DATUM

COMPLETED Oct. 15/54

DEPARTURE 119°00' W

BEARING S 33° W (Cast)

ULTIMATE DEPTH 301'

ELEVATION

DIP 45

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD g	SLUDGE GOLD g
0.0 - 10.0	Casing				
10.0 - 76.7	Nepheline Syenite (2) darker colour than normal				
	46.0'-56.0' Carbonated and hematitic				
	63.5'-76.7' " " "				
76.7 - 131.0	Nepheline Diorite (3A) Less than 10% magnetite				
	90.2' - 92.3' slightly sheared & carbonated & hematitic. Probably shear or fault zone?				
	105.0' - 107.6' same as 90.2' - 92.3'				
	111.3' - 113.0' Titaniferous magnetite with un-identifiable mineral.				
	126.4' - 127.4' Nepheline Syenite (2)				
131.0 - 135.8'	Greenstone (6) out by narrow dikes of syenite.				
135.8 - 138.3	Nepheline Syenite (2)				
138.3 - 144.3	Nepheline Diorite (3A) Alteration Rock				
144.3 - 148.7	Nepheline Syenite (2)				
148.7 - 213.7	Nepheline Diorite (3A) Alteration Rock				

N.M.P. TORONTO-STOCK FORM NO. 501 REV. 12/51

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DIAMOND DRILL RECORD

PROPERTY Oxyka Mines Ltd.

HOLE NO. 7

SHEET NUMBER 2

SECTION FROM 213.7' TO 301.0'

STARTED Oct. 14/54

LATITUDE 74°20' N No. 1 B.L.

DATUM

COMPLETED Oct. 15/54

DEPARTURE 11°00' W

BEARING S 33° W (ast)

ULTIMATE DEPTH 301.

ELEVATION

DIP 45

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD g	SLUDGE GOLD g
	155.8' - 166.5' Heavy disseminated magnetite.				
	166.5' - 169.0' Nepheline Syenite				
	171.1' - 174.5' Greenstone facies				
	180.0' - 182.5' Nepheline Syenite				
	184.3' - 186.7' Greenstone facies				
	186.3' - 186.7' Book Blotite mica				
	188.5' - 200.5' Considerable coarse book blotite mica.				
213.7 - 220.6	Lamprophyre Dike (1B)				
220.6 - 235.4	Nepheline Diorite (3A) Alteration Rock				
235.4 - 236.8	Lamprophyre Dike (1B)				
236.9 - 239.0	Nephelene Syenite (2)				
239.0 - 301.0	Nepheline Diorite (3A) Alteration Rock				
	Magnetite content greater than 10%				
	Massive book blotite over lengths of 6 inches				
	End of Hole				

N.M.P. - TORONTO-STOCK FORM NO 501 REV. 12/51

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DIAMOND DRILL RECORD

PROPERTY Chyba Mines Limited HOLE NO. 8

SHEET NUMBER 1 SECTION FROM 0.0 TO 450.0 STARTED Oct 14/54

LATITUDE Line 12/90 S DATUM _____ COMPLETED Oct 16/54

DEPARTURE 6140 Y No. 1 B.L. BEARING N 68 W (Var) ULTIMATE DEPTH 450

ELEVATION _____ DIP 45 PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	BLIND \$
0.0 - 8.4	Casing				
8.4 - 61.3	Kephaline Diorite (3A) alteration rock - sections retaining fractures of (6) 15.8" - 18.0' Carbonate 56.9" - 57.7' Carbonate Kephaline Gneiss (2) Blotite Carbonate Gneiss (4)				
61.3 - 97.6	Kephaline Diorite (3A) alteration rock				
97.6 - 102.4	very fine grained, with interbands of (4) 147.2' - 148.7' - lost core 173.4' - 177.8' - Feldspathic and carbonated 248.2' - 250.4' - Lamprophyre Dike (1A) 279.5' - 281.8' - (5) 308.0' - 310.0' - sharded and carbonate filled 339.2' - 342.5' - Feldspathic 440.6' - 441.9' - (A) 443.0' - 444.5' - (A)				
102.4 - 450.0	End of Hole				

Chyka Mines Limited
Sample Assay Sheet
Diamond Drill Hole No. 8

<u>Sample No.</u>	<u>From</u>	<u>To</u>	<u>Core Length</u>	<u>Sample % Niobium</u>
CH-178	35.4'	45.4'	10.0'	_____
CH-179	97.4'	102.4'	5.0'	_____
CH-180	107.4'	132.4'	25.0'	_____
CH-181	262.7'	267.5'	4.8'	_____

M. Zurowski
M. Zurowski

DIAMOND DRILL RECORD

PROPERTY CHYKA MINES LTD.

HOLE NO. 9

SHEET NUMBER 1 SECTION FROM 0.0' TO 147.6'

STARTED Oct. 18/54

LATITUDE 7450 N.

DATUM

COMPLETED Oct. 20/54

DEPARTURE 7485 W. No. 1 B.L.

BEARING S 65 W.

ULTIMATE DEPTH 342

ELEVATION

DIP 45

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD \$	BLUES \$
0.0 - 19.0	Coasting				
19.0 - 22.1	Blotite Pyroxene Gneiss (5) very fine grained				
22.1 - 28.9	Nepheline Syenite (2) darker than normal				
28.9 - 31.8	Grenstone (6) dark green, very fine grained with spherulites of carbonate, slightly schistose at 30 to core.				
31.8 - 46.2	Nepheline Syenite (2)				
46.2 - 48.2	Blotite Carbonate Gneiss (4) upper contact at 50 to core.				
48.2 - 81.0	Nepheline Syenite (2)				
81.0 - 83.3	Nepheline Diorite (3A) Alteration Rock				
83.3 - 87.6	Nepheline Syenite (2)				
87.6 - 124.9	Blotite Pyroxene Gneiss, mottled, less than 5% magnetite. Lower contact @ 53 to core Upper contact @ 35 to core				
124.9 - 138.9	Nepheline Diorite (3A) Alteration Rock, 136.3' to 136.9' - No.(5)				
138.9 - 147.6	Blotite Pyroxene Gneiss (5) Upper contact @ 50 to core, out by masses of less than 1/2" wide.				

N.M.P. TORONTO-STOCK FORM NO. 501 REV. 12/51

DRILLED BY Canadian Longyear Ltd.

SIGNED Walter S. Stewart

DIAMOND DRILL RECORD

PROPERTY CHUKA MINES LTD.

HOLE NO. 9 9

SHEET NUMBER 2

SECTION FROM 147.6 TO 285.5

STARTED Oct. 18/54

LATITUDE 74 50 N No 1 B.L.

DATUM

COMPLETED Oct. 20/54

DEPARTURE 7+85 W

BEARING S 65 W (ast)

ULTIMATE DEPTH 342

ELEVATION

DIP 45

PROPOSED DEPTH -

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD g	BLIND g
147.6 - 151.9	Nepheline Diorite (3A) alteration rock orange coloured mineral present.				
151.9 - 166.2	Biotite Pyroxene Gneiss (5) with crystalline magnetite.				
166.2 - 173.9	Nepheline Diorite (3A) alteration rock remnants of (5) biotite crystals	small			
173.9 - 176.2	Biotite Pyroxene Gneiss (5)	large.			
176.2 - 198.7	Nepheline Diorite (3A) alteration rock				
198.7 - 206.4	Biotite Pyroxene Gneiss (5) very fine grained 3-5% magnetite l.c. @ 25				
206.4 - 239.8	Nepheline Syenite (2) some magnetite less than 2%, some disseminated pyrite.				
239.8 - 246.6	Biotite Pyroxene Gneiss, very fine grained less than 5% magnetite.				
246.6 - 252.0	Nepheline Diorite (3A) alteration rock				
252.0 - 255.5	Basalt Dike contact @ 55 to core.				
255.5 - 259.7	Biotite Pyroxene Gneiss (5)				
259.7 - 263.4	Nepheline Diorite (3A)				
263.4 - 264.2	Biotite Pyroxene Gneiss (5)				
264.2 - 285.5	Nepheline Diorite (3A) Alteration rock				

N.M.P. TORONTO - STOCK FORM NO 501 REV 12/51

DRILLED BY Canadian Longyear Ltd.

SIGNED: W. J. Longyear

DIAMOND DRILL RECORD

PROPERTY CHYKA MINES LTD

HOLE NO. 13 10

SHEET NUMBER 1 SECTION FROM 0.0 TO 300.0 STARTED Oct 17/54

LATITUDE 144 50 N DATUM _____ COMPLETED Oct 19/54

DEPARTURE 74 00 W No. 1 N. L. BEARING N 68 W (ant) ULTIMATE DEPTH 300

ELEVATION _____ DIP 45 PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD g	SLUDGE GOLD g
0.0 - 11.0	Casing				
11.0 - 74.5	Nepheline Diorite (3A) alteration rock				
	28.6' - 33.0' Basal Lava (6) Feldspathic				
	biotite content greater than 5%				
	34.0' - 46.0' Disseminated magnetite				
	greater than 5%				
74.5 - 77.0	Biotite Carbonate Gneiss (4)				
77.0 - 83.3	Nepheline Diorite (3A) alteration Rock				
83.3 - 89.3	Biotite Carbonate Gneiss (4)				
89.3 - 300.0	Nepheline Diorite (3A) alteration Rock				
	58.0' - 100.0' Test core				
	124.3' - 126.0' Biotite Carbonate Gneiss				
	140.8' - 143.6' " "				
	150.8' - 153.7' " "				
	182.2' - 184.5' " "				
	220.6' - 285.1' Crystalline Magnetite greater 15%				
	282.2' - 285.1' Biotite Carbonate Gneiss				
	End of Hole				

N.M.P. TORONTO-STOCK FORM NO. 501 REV. 12/51

DRILLED BY Canadian Longyear Ltd.

SIGNED Michael J. [Signature]

DIAMOND DRILL RECORD

PROPERTY CHYKA MINES LTD.

HOLE NO. 11

SHEET NUMBER 1

SECTION FROM 0.0 TO 62.1

STARTED Oct. 22/54

LATITUDE 174°00' N

DATUM

COMPLETED Oct. 23/54

DEPARTURE 10°00' W. No. 1. B.L.

BEARING West (ast)

ULTIMATE DEPTH 270

ELEVATION

DIP 40

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD g	BLUESCH GOLD g
0.0 - 9.0	Casing				
9.0 - 16.0	Blotite Pyroxene Gneiss (5) Medium to coarse grained, slight gneissosity. Blotite about 40% of the core and forming large blocks, 1/4" to 1 1/4" in size. Nepheline poor. Greater than 5% disseminated crystalline magnetite. Dark green to black in colour, little carbonate. Un-identified reddish-orange occurring as ribbons and flakes.				
36.0 - 38.1	Blotite Pyroxene Gneiss (5) finer texture than 9.0' - 36.0'				
38.1 - 39.0	Nepheline Syenite (2) sparse magnetite at contacts with 5.				
39.0 - 40.7	Blotite Pyroxene Gneiss (5)				
40.7 - 43.2	Nepheline Syenite (2)				
43.2 - 53.5	Blotite Pyroxene Gneiss (5)				
53.5 - 56.5	Nepheline Syenite (2)				
56.5 - 62.1	Blotite Pyroxene Gneiss (5)				

N.M.P. TORONTO-STOCK FORM NO 501 REV. 12/51

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SIGNED *[Signature]*

DIAMOND DRILL RECORD

PROPERTY CHYKA MINES LTD.

HOLE NO. 11

SHEET NUMBER 2

SECTION FROM 62.1 TO 256.7

STARTED Oct 22/54

LATITUDE 17400 N.

DATUM

COMPLETED Oct 23/54

DEPARTURE 10400 W No. 1. E.L.

BEARING West (ant)

ULTIMATE DEPTH 270

ELEVATION

DIP 40

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD g	SLUDGE GOLD g
62.1 - 64.9	Nepheline Berylite (2)				
64.9 - 158.5	Blotite Pyroxene Gneiss (5) 75.5' - 77.0' Nepheline Berylite (2)				
158.5 - 159.8	Nepheline Diorite (3A)				
159.8 - 202.0	Blotite Pyroxene Rock (5) 193.0' - 193.5 Feldspathic and with un-identified reddish mineral occurring as ribbons and flecks. 181.0' - 183.0' - Feldspathic				
202.0 - 205.2	Basalt Dike (1A) very fine grained.				
205.2 - 224.5	Blotite Pyroxene Gneiss (5) considerably feldspathic and increase in nepheline. Little crystalline magnetite. Slight schistosity at 45 to core. Carbonated with a little pyrite.				
224.5 - 252.3	Nepheline Diorite (3A) alteration rock less than 2% magnetite. Un-identified yellow-orange and reddish mineral. Feldspathic				
252.3 - 256.7	Basalt Dike (1A) very fine grained upper contact 40 to core				

N.M.P. - TORONTO-STOCK FORM NO 301 REV. 12/31

DRILLED BY Canadian Longyear Ltd.

SIGNED Michael J. Summers

DIAMOND DRILL RECORD

PROPERTY CHRYKA MINES LTD.

HOLE NO. 13

SHEET NUMBER 1

SECTION FROM 0.0 TO 300.7

STARTED Oct 26/54

LATITUDE 21+50 N

DATUM

COMPLETED Oct 28/54

DEPARTURE 4+00 W No. 1 B.L.

BEARING 9-55 W (ant)

ULTIMATE DEPTH 424

ELEVATION

DIP 45

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD g	SLUDGE GOLD g
0.0 - 12.0	Gravel				
12.0 - 15.0	Nepheline Diorite (3A) alteration rock				
15.0 - 32.4	Biotite Pyroxene Gneiss (5)				
32.4 - 47.5	Nepheline Diorite (3A) Alteration Rock				
47.5 - 58.4	Biotite Pyroxene Gneiss (5)				
58.4 - 135.0	Nepheline Diorite (3A) alteration rock				
135.0 - 146.3	Greenstone (6) cut by masses of (3A)				
146.3 - 150.0	Biotite Pyroxene Gneiss (5)				
150.0 - 180.0	Nepheline Gabbro (3B) alteration rock				
180.0 - 192.1	Biotite Pyroxene Gneiss (5) fine grained				
192.1 - 199.2	Nepheline Gabbro (3B) alteration rock				
199.2 - 203.5	Biotite Pyroxene Gneiss (5)				
203.5 - 219.7	Nepheline Gabbro (3B) Alteration Rock				
219.7 - 223.5	Nepheline Syenite (2)				
223.5 - 256.8	Nepheline Gabbro (3B) alteration rock				
256.8 - 258.9	Basal Dike (1A) contacts at 20 to core				
258.9 - 286.4	Nepheline Gabbro (3B) Alteration rock				
286.4 - 288.5	Lamprophyre Dike				
288.5 - 292.1	Nepheline Gabbro (3B) Alteration Rock				
292.1 - 300.7	Biotite Carbonate Gneiss (4) very fine grained gneissosity at 90 to core				

N.M.P. TORONTO-STOCK FORM NO 501 REV 12/51

297.8 - 299.0 - syenite dike

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Canadian Longyear Ltd.

SIGNED

Michael ...

DIAMOND DRILL RECORD

PROPERTY ORCA MINES LTD. HOLE NO. 14

SHEET NUMBER 1 SECTION FROM 0.0 TO 300.0 STARTED Oct 30/54

LATITUDE 14°00 N DATUM _____ COMPLETED Oct/31, 54

DEPARTURE 2°00 E No. 1 N. L. BEARING West (ast) ULTIMATE DEPTH 300

ELEVATION _____ DIP 45 PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD g	SLUDGE GOLD g
0.0 - 12.0	Casing				
12.0 - 77.5	Nepheline Diorite (3A) Alteration Rock magne pyrite, pyrrhotite and odd flecks of chalcopyrite. Combined sulphides less than 2% 30.0 - 40.0 - approaching amphibolite 70.0 - 75.0 - considerable reddish alteration.				
77.5 - 103.5	Greenstone (6) Carbonated 81.4 - 83.3 crystalline magnetite, abundant biotite also.				
103.6 - 110.6	Nepheline Diorite (3A) Alteration Rock				
110.6 - 143.1	Greenstone (6) - disseminated magnetite 5-10% abundant fine flaked biotite. Schistosity at 55. Radioactive, 138.1 - 139.1 - crystalline magnetite, radioactive.				
143.1 - 149.0	Biotite Pyroxene Gneiss (5) magnetite 5-10%				
149.0 - 163.2	Greenstone (6)				
163.2 - 167.0	Lamprophyre Dike (1B)				
167.0 - 175.9	Nepheline gabbro (3B) alteration rock.				
175.9 - 188.0	Greenstone (6)				
188.0 - 300.0	Nepheline gabbro (3B) Alteration rock, magnetite varying from 5-15% 202.5 - 203.8 - dark altered facies of (6)				

N.M.P. TORONTO-STOCK FORM NO 501 REV 12/51

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DIAMOND DRILL RECORD

PROPERTY CHYKA MINES LTD.

HOLE NO. 15

SHEET NUMBER 1

SECTION FROM 0.0 TO 350.0

STARTED Mar 3/54

LATITUDE 14+00 N

DATUM

COMPLETED Mar 5/54

DEPARTURE 3+25 R of B.L. 1

BEARING West (ast)

ULTIMATE DEPTH 350

ELEVATION

DIP 45

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD g	SLURRY GOLD g
0.0 - 12.5	casing				
12.5 - 120.0	Nepheline Diorite (3A) alteration rock magnetic content 10%				
	32.3 - 33.8 like rock (1A)				
	56.6 - 59.6 sheared and strongly foliated				
120.0 - 126.1	Greenstone (6) altered				
126.1 - 129.2	Nepheline Diorite (3A) alteration rock				
129.2 - 136.0	Greenstone (6)				
136.0 - 145.6	Nepheline Diorite (3A) alteration rock				
145.6 - 148.4	Lamprophyre like - upper contact at 30				
	146.5 - 147.1 (3A) with crystalline magnetite				
148.4 - 152.0	Nepheline Diorite (3A) / Alteration rock				
152.0 - 199.0	Blotite Pyroxene Gneiss - altered with dyctilline magnetite				
199.0 - 204.3	Greenstone (6)				
204.3 - 229.2	Nepheline Diorite (3A) alteration rock				
229.2 - 274.0	Greenstone (6)				
274.0 - 277.8	Nepheline Diorite (3A) alteration rock				
277.8 - 350.0	Nepheline Gabbro (3A) alteration rock				
	334.0 - 343.0 very gneissic, parallel to core altered sediment.				
	END OF HOLE				

N.M.P. TORONTO-STOCK FORM NO. 501 REV 12/51

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SIGNED [Signature]

DIAMOND DRILL RECORD

PROPERTY ORCA MINES LTD. HOLE NO. 16

SHEET NUMBER 1 SECTION FROM 0.0 TO 301.0 STARTED Nov 8/54

LATITUDE 14 00 N DATUM _____ COMPLETED Nov 8/54

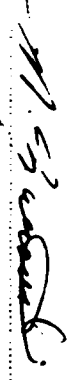
DEPARTURE 9 50 E No. 1. D.L. BEARING West (ast) ULTIMATE DEPTH 301

ELEVATION _____ DIP 45 PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD g	SLUDGE GOLD g
0.0 - 16.0	Casing				
16.0 - 32.0	Nepheleine Gabbro (3B) Alteration Rock				
32.0 - 36.8	Granestone (6) lower contact at 30 to core.				
36.8 - 105.0	Nepheleine Gabbro (3B) alteration rock Disseminated magnetite 10-20% 45.8 - 46.9 (6) lower contact at 50 to core 77.0 - 79.6 (6)				
105.0 - 122.3	Nepheleine Diorite (3A) Alteration rock				
122.3 - 126.9	Biotite Pyroxene Gneiss (5)				
126.9 - 130.0	Basal Dike (1A)				
130.0 - 158.5	Nepheleine Gabbro (3B) alteration rock				
158.5 - 160.0	Biotite Pyroxene Gneiss (5)				
160.0 - 266.5	Nepheleine Gabbro (3B) alteration rock narrow sections of (2) 10-20% magnetite				
266.5 - 301.0	175.0 - 176.0 Un-identified reddish mineral present. Nepheleine Diorite (3A) Alteration rock				
	End of Hole				

N.M.P. TORONTO-STOCK FORM NO. 501 REV. 12/51

DRILLED BY **Canadian Longyear Ltd.**

SIGNED 

CHYKA MINES LIMITED
Sample Assay Sheet

Diamond Drill Hole No. 16

<u>Sample</u>	<u>From</u>	<u>To</u>	<u>Core Length</u>	<u>Assay % Niobium</u>
CH-63	50.0'	62.5'	12.5'	_____
CH-64	62.5'	75.0'	12.5'	_____
CH-65	105.0'	122.3'	17.3'	_____
CH-66	130.0'	140.0'	10.0'	_____
CH-67	140.0'	150.0'	10.0'	_____
CH-68	175.0'	176.0'	1.0'	_____
CH-69	275.0'	287.5'	12.5'	_____
CH-70	287.5'	300.0'	12.5'	_____


M. Zurowski

DIAMOND DRILL RECORD

PROPERTY ORICA MINES LTD. HOLE NO. 17

SHEET NUMBER 1 SECTION FROM 0.0 TO 325.0 STARTED Nov 11/54

LATITUDE 8.00 N DATUM _____ COMPLETED Nov 12/54

DEPARTURE 13.00 E of No. 1 B.L. BEARING West (ast) ULTIMATE DEPTH 325

ELEVATION _____ DIP 40 PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD g	SLUDGE GOLD g
0.0 - 12.0	Casing				
12.0 - 75.0	Nepheline Diorite (3A) alteration rock				
75.0 - 121.1	Nepheline Gabbro (3B) alteration rock Magnetite 10-20%. Biotite in sections occurring in veins.				
121.1 - 126.3	Greenstone (6)				
126.3 - 144.0	Biotite Pyroxene Gneiss (5)				
144.0 - 164.2	Nepheline Gabbro (3B) alteration rock				
164.2 - 167.2	Greenstone (6) buffaceous, lower contact at 30 to core.				
167.2 - 200.3	Biotite Pyroxene Gneiss (5) - considerable biotite, magnetite 20-50%				
	173.8 - 176.0 - burnt-red mineral present				
	193.5 - 195.0 Massive crystalline magnetite				
200.3 - 224.5	Nepheline Gabbro (3B) alteration rock, magnetite 10-20% occasional section of biotite.				
224.5 - 230.9	Biotite Carbonate Gneiss (4) feldspathic, reddish mineral present.				
230.9 - 235.0	Nepheline Gabbro (3B) alteration rock				
	235.0 - 253.5 - same as 224.5 - 230.9				
	253.5 - 255.0 - same as 224.5 - 230.9				
	255.0 - 287.3 Biotite Gneiss, biotite of calcite				
	287.3 - 297.0				
	297.0 - 306.0 - 306.9 Greenstone (6) slight schistosity at 50				

N.M.P. TORONTO-STOCK FORM NO. 501 REV. 12/51

DRILLED BY

Canadian Longyear Ltd.

SIGNED

S. J. [Signature]

CHYKA MINES LIMITED
Sample Assay Sheet

Diamond Drill Hole No. 17

<u>Sample</u>	<u>From</u>	<u>To</u>	<u>Core Length</u>	<u>Assay % Niobium</u>
CH-71	121.1'	126.3'	5.2'	_____
CH-72	173.8'	176.0'	2.2'	_____
CH-73	224.5'	230.9'	6.4'	_____
CH/74	253.5'	255.7'	2.2'	


M. Zupowski

DIAMOND DRILL RECORD

PROPERTY ONYX MINES LTD.

HOLE NO. 18

SHEET NUMBER 1

SECTION FROM 0.0 TO 308.0

STARTED Oct 14/54

LATITUDE 6 00

DATUM

COMPLETED Oct 15/54

DEPARTURE 11 00 E No. 1 B.L.

BEARING East (abt)

ULTIMATE DEPTH 308

ELEVATION

DIP 45

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD g	SLURRY GOLD g
0.0 - 10.0	Gauging				
10.0 - 86.0	Kepbeline Diorite (3A) alteration rock magnetite 5-10% and garnetiferous with possibly siron. latter part of section containing reddish mineral.				
86.0 - 88.0	Basal Dike (1A) contacts at 20 to core				
88.0 - 106.0	Kepbeline Diorite (3A) Alteration rock				
106.0 - 167.0	Kepbeline Gabbro (3B)				
167.0 - 168.6	Basal Dike (1A)				
168.6 - 250.0	Kepbeline Gabbro (3B) alteration rock magnetite varying from 5-15% 175.0 - 200.0 very fine grained and fadles of 5 198.0 - 200.0 heavy disseminated crystalline magnetite				
250.0 - 298.5	Diabase Pyroxene Gneiss (5) magnetite varying from 10-20% with sections almost massive carbonate.				
298.5 - 308.0	298.5 - Kepbeline Diorite (3A) alteration rock, narrow sections carbonated.				
End of Hole					

N.M.P. TORONTO-STOCK FORM NO. 501 REV 12/51

DRILLED BY Canadian Longyear Ltd.

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CHYKA MINES LIMITED
Sample Assay Sheet

Diamond Drill Hole No. 18

<u>Sample</u>	<u>From</u>	<u>To</u>	<u>Core Length</u>	<u>Assay ± Nitrogen</u>
CH-75	10.0'	25.0'	15'	_____
CH-76	25.0'	40.0'	15'	_____
CH-77	40.0'	55.0'	15'	_____
CH-78	55.0'	65.8'	10.8'	_____
CH-79	91.0'	106.0'	15.0'	_____
CH-80	126.6'	133.7'	7.1'	_____
CH-81	175.0'	185.0'	10.0'	_____
CH-82	200.0'	210.0'	10.0'	_____
CH-83	215.0'	220.0'	5.0'	_____
CH-84	250.0'	257.0'	7.0'	_____
CH-85	257.0'	264.0'	7.0'	_____

M. Zurovski
M Zurovski

DIAMOND DRILL RECORD

PROPERTY Omega Mines Limited HOLE NO. 19

SHEET NUMBER 1 SECTION FROM 0.0 TO 300.3 STARTED Nov 16/54

LATITUDE 6 00 N DATUM _____ COMPLETED Nov 17/54

DEPARTURE 10 75 E No. 1. B.L. BEARING West (ant) ULTIMATE DEPTH 351

ELEVATION _____ DIP 45 PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD g	SLUDGE GOLD g
0.0 - 5.0	Casing				
5.0 - 6.5	Kepbeline Diorite (3A) alteration rock				
6.5 - 8.1	Basal Dike (1A) unidentifed reddish mineral				
8.1 - 60.0	Kepbeline Diorite (3A) alteration rock				
60.0 - 71.5	Biotite Pyroxene Gneiss (5) quite altered.				
71.5 - 77.3	Basal Dike (1A) blobs of calcite				
77.3 - 97.9	Biotite Pyroxene Gneiss (5) quite altered.				
97.9 - 106.0	Kepbeline Gabbro (3B) alteration rock				
106.0 - 145.9	Biotite Pyroxene Gneiss (5) magnetite 10-20%				
145.9 - 156.5	Kepbeline Diorite (3A) alteration rock				
156.5 - 160.1	Biotite Carbonate Gneiss (4) reddish mineral present.				
160.1 - 172.5	Biotite Pyroxene Gneiss (5)				
	162.2 - 163.2 Kepbeline Diorite (3A) alt. rock				
172.5 - 185.2	Kepbeline Gabbro (3B) alteration rock, 50% crystalline magnetite.				
185.2 - 300.3	Biotite Pyroxene Gneiss (5) disseminated crystalline magnetite 10-20%				
	207.9' - 208.6' Basal Dike (1A) contacts at 30				
	213.1 - 216.5 ^(3A) alteration rock, Kepbeline Diorite (3A)				
	229.5 - 235.0' Feldspathic				
	249.5' - 251.0' Feldspathic with reddish mineral				

N.M.P. TORONTO-STOCK FORM NO 501 REV. 12/51

DRILLED BY Canadian Longyear Ltd.

SIGNED 

CHYKA MINES LTD.
Sample Assay Sheet
Diamond drill hole No. 19

<u>Sample No.</u>	<u>From</u>	<u>To</u>	<u>Core Length</u>	<u>Assay % Niobium</u>
CH-98	54.0'	60.0'	6.0'	_____
CH-99	106.0'	121.0'	15.0'	_____
CH-100	121.0'	136.0'	15.0'	_____
CH-101	136.0'	145.9'	9.9'	_____
CH-102	156.5'	160.1'	3.6'	_____
CH-103	172.5'	185.2'	12.7'	_____
CH-104	249.7'	251.0'	1.3'	_____
CH-105	251.0'	263.0'	12.0'	_____
CH-106	263.0'	275.0'	12.0'	_____
CH-107	275.0'	290.0'	15.0'	_____
CH-108	290.0'	305.0'	15.0'	_____
CH-109	305.0'	313.4'	8.4'	_____
CH-110	334.1'	351.0'	16.9'	_____

M Zurowski

M. Zurowski

DIAMOND DRILL RECORD

PROPERTY Obyra Mines Limited HOLE NO. 19

SHEET NUMBER 2 SECTION FROM 300.3 TO 700.0 STARTED Nov 16/54

LATITUDE 6+00 N DATUM _____ COMPLETED Nov 17/54

DEPARTURE 8+75 E No. 1 B.L. BEARING West (act) ULTIMATE DEPTH 700.

ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD g	SLUDGE GOLD g
300.3 - 315.4	275.0' - 300.0' generally feldspathic Nepheline Diorite (3A) quite feldspathic				
315.4 - 334.0	Biotite Pyroxene Gneiss (5)				
334.0 - 350.7	Nepheline Diorite (3A) - reddish alteration of feldspar				
350.7 - 362.0	Greenstone (6)				
362.0 - 385.6	Biotite Pyroxene Gneiss (5) - cut by narrow masses of (3A)				
385.6 - 387.1	Nepheline Syenite (2) dark grey in colour				
387.1 - 399.1	Biotite Pyroxene Gneiss (5)				
399.1 - 495.0	Nepheline Gabbro (3B) - biotite content greater than normal, garnetiferous and magnetite varying from 10 - 20%				
495.0 - 501.9	Biotite Carbonate Gneiss (4) with reddish mineral				
501.9 - 550.7	Nepheline Gabbro (3B) narrow sections of (5) probably highly metamorphosed facies of (3B)				
550.7 - 605.0	Nepheline Diorite (3A)				
605.0 - 632.3	Nepheline Gabbro (3B)				
632.3 - 640.9	Biotite Carbonate Gneiss (4)				
640.9 - 687.9	Nepheline Diorite (3A) sections strongly feldspathised				
687.9 - 700.0	Biotite Carbonate Gneiss (4) feldspathised 695.0' - 695.9' - lost core				
	End of Hole				

N.M.P. TORONTO-STOCK FORM NO. 501 REV. 12/51

DRILLED BY _____

SIGNED _____

Chyka Mines Limited
Sample Assay Sheet
Diamond Drill Hole No.19

<u>Sample No.</u>	<u>From</u>	<u>To</u>	<u>Core Length</u>	<u>% Niobium</u>
Ch-188	97.9	106.0	8.1 Ft	_____
Ch-189	185.2	215.2	30.0 "	_____
Ch-190	215.2	249.7	34.5 "	_____
Ch-191	313.4	334.0	21.4 "	_____
Ch-203	362.0	383.6	21.6 "	_____
Ch-204	475.0	495.0	20.0 "	_____
Ch-205	495.0	501.9	6.9 "	_____
Ch-206	622.0	625.0	3.0 "	_____
Ch-207	687.9	700.0	12.1 "	_____

M. Zurowski
M. Zurowski

DIAMOND DRILL RECORD

PROPERTY ORCA MINES LTD. HOLE NO. 20

SHEET NUMBER 1 SECTION FROM 0.0 TO 338.0 STARTED Nov 19/54

LATITUDE 18+60 N DATUM _____ COMPLETED Nov 20/54

DEPARTURE 4730 West of No. 1 B.L. BEARING West (ant) ULTIMATE DEPTH 338

ELEVATION _____ DIP 45 PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD g	SLUDGE GOLD g
0.0 - 18.0	Casing				
18.0 - 23.0	Biotite Pyroxene Gneiss (5)				
23.0 - 67.5	Kephaline Gabbro (3B) alteration rock				
67.5 - 76.0	Biotite Pyroxene Gneiss (5)				
76.0 - 124.4	Kephaline Gabbro (3B) alteration rock				
124.4 - 151.2	Kephaline Diorite (3A)				
	145.0 - 150.0 Feldspathic & Carbonated				
	150.0 - 175.0 Gneiss of (5) in various sections				
151.2 - 207.0	Biotite Pyroxene Gneiss (5) fine grained and kaphalinised. Latter 2 feet of section probably altered like.				
207.0 - 274.8	Kephaline Diorite (3A)				
274.8 - 338.0	Kephaline Gabbro (3B) alteration rock				
	End of Hole				

N.M.P. TORONTO-STOCK FORM NO 501 REV 12/51

DRILLED BY **Canadian Longyear Ltd.**

SIGNED *[Signature]*

CHYKA MINES LIMITED
Sample Assay Sheet
Diamond Drill Hole No. 20

<u>Sample No.</u>	<u>From</u>	<u>To</u>	<u>Core Length</u>	<u>Assay % Niobium</u>
CH-126	18.0'	23.0'	5.0'	_____
CH-127	23.0'	45.5'	22.5'	_____
CH-128	45.5'	67.5'	22.0'	_____
CH-129	67.5'	76.0'	8.5'	_____
CH-130	100.0'	110.0'	10.0'	_____
CH-131	150.0'	162.5'	12.5'	_____
CH-132	162.5'	175.0'	12.5'	_____
CH-133	225.0'	237.5'	12.5'	_____
CH-134	237.5'	250.0'	12.5'	_____
CH-135	315.0'	325.0'	10.0'	_____
CH-136	325.0'	338.0'	13.0'	_____


M. Zurowski

DIAMOND DRILL RECORD

PROPERTY ORICA MINES LTD. HOLE NO. 21

SHEET NUMBER 1 SECTION FROM 0.0 TO 275 STARTED Nov 21/54

LATITUDE 16+00 N DATUM West (ast) COMPLETED Nov 22/54

DEPARTURE 4+50 V of B.L. BEARING West (ast) ULTIMATE DEPTH 275

ELEVATION _____ DIP 40 PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD \$	BUCKET GOLD \$
0.0 - 18.0	Casing				
18.0 - 45.0	Blotite Pyroxene Gneiss (5) 18.0 - 22.6 Considerable Dark Blotite				
45.0 - 50.8	Greenstone (5) generally quite altered				
50.8 - 58.4	Blotite Pyroxene Gneiss (5)				
58.4 - 176.5	Kepbeline Diorite (3A) alteration rock				
176.5 - 195.1	Kepbeline Gabbro(3B) alteration rock				
195.1 - 226.9	Kepbeline Diorite (3A) alteration rock				
	212.0 - 213.8 Greenstone (6) - buffaceous texture				
	215.0 - 220.9 Feldspathic				
226.9 - 233.5	Blotite Pyroxene Gneiss (5) very fine grained, with folios of (6)				
233.5 - 275.0	Kepbeline Diorite (3A) alteration rock 233.5 - 245.0 Feldspathic with reddish alteration.				
	End of Hole				

N.M.P. TORONTO-STOCK FORM NO. 501 REV. 12/51

DRILLED BY Canadian Longyear Ltd.

SIGNED [Signature]

CHYKA MINES LIMITED
Sample Assay Sheet
Diamond Drill Hole No. 21

<u>Sample No</u>	<u>From</u>	<u>To</u>	<u>Core Length</u>	<u>Assay Nickel %</u>
CH-114	18.0'	31.5'	13.5'	_____
CH-115	31.5'	45.0'	13.5'	_____
CH-116	50.8'	58.4'	7.6'	_____
CH-117	58.4'	66.2'	7.8'	_____
CH-118	66.2'	75.0'	8.8'	_____
CH-119	80.0'	90.0'	10.0'	_____
CH-120	95.0'	100.0'	5.0'	_____
CH-121	105.0'	111.5'	6.5'	_____
CH-122	165.0'	170.0'	5.0'	_____
CH-123	176.5'	185.0'	8.5'	_____
CH-124	226.9'	233.5'	6.6'	_____
CH-125	233.5'	245.0'	11.5'	_____


M. Zarowski

DIAMOND DRILL RECORD

PROPERTY Clyde Mines Limited

HOLE NO. 22

SHEET NUMBER 1

SECTION FROM 0.0 TO 327.0

STARTED Nov 23/54

LATITUDE Line 16/00 N

DATUM

COMPLETED Nov 24/54

DEPARTURE 2/50 W

BEARING West (amb)

ULTIMATE DEPTH 327.0

ELEVATION

DIP 40

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD g	SLUDGE GOLD g
0.0 - 22.0	Casing				
22.0 - 199.0	Keppelino Diorite (3A) Alteration Rock				
199.0 - 202.0	Biotite Carbonate Gneiss (4)				
202.0 - 235.7	Keppelino Diorite (3A) Alteration Rock				
235.7 - 237.1	Biotite Carbonate Gneiss (4)				
237.1 - 267.0	Keppelino Diorite (3A) Alteration Rock				
267.0 - 270.1	Basalt Dike (1A)				
270.1 - 327.0	Keppelino Diorite (3A) Alteration Rock 240.7 - 289.6 Biotite Carbonate Gneiss 320.0 - 322.5 strong reddish alteration				
	END OF HOLE				

N.M.P. TORONTO-STOCK FORM NO. 501 REV. 12/51
Canadian Ingeogear Ltd.

DRILLED BY

SIGNED *[Signature]*

CHYKA MINES LIMITED
Sample Assay Sheet
Diamond Drill Hole No. 22

<u>Sample No.</u>	<u>From</u>	<u>To</u>	<u>Core Length</u>	<u>% Niobium</u>
CH-164	199.0'	202.4'	3.4'	_____
CH-165	235.7'	237.1'	1.4'	_____
CH-166	320.0'	322.5'	2.5'	_____

M. Zarowski
M. Zarowski

DIAMOND DRILL RECORD

PROPERTY Chryse Mines Limited HOLE NO. 23

SHEET NUMBER 1 SECTION FROM 0.0 TO 275.5 STARTED Nov 26/54

LATITUDE Line 14+00 N DATUM _____ COMPLETED Nov 28/54

DEPARTURE 4175 E BEARING West (ast) ULTIMATE DEPTH 497

ELEVATION _____ DIP 200° - 43 collar 45 400° - 42 PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD %	BLUESCHISTE GOLD %
0.0 - 20.0	Onesins				
20.0 - 32.7	Biotite Pyroxene Onesins (5)				
32.7 - 40.6	Nepheline Diorite (3A) Alternation Rock.			10%	
40.6 - 45.4	Biotite Carbonate Onesins (4) brecciated. Lower contact at 45 to core, upper contact at 75				
45.4 - 53.6	Biotite Pyroxene Onesins (5)				
53.6 - 62.5	Nepheline Diorite (3A) Alternation Rock, magnetite 5 - 10% Facies of (5) and (3B) in sections.				
62.5 - 64.4	Opemstone (6) contacts at 45 to core				
64.4 - 122.7	Nepheline Diorite - Alternation Rock (3A) magnetite 5 - 10% 108.4 - 108.9 - Biotite Carbonate Onesins				
122.7 - 126.1	Biotite Carbonate Onesins (4)				
126.1 - 145.5	Nepheline Diorite (3A) Alternation Rock				
145.5 - 148.0	Biotite Carbonate Onesins (4)				
148.0 - 154.4	Biotite Pyroxene Onesins (5)				
154.4 - 161.5	Biotite Carbonate Onesins (4) - Feldspathic, slightly schistose at 35-45 to core.				
161.5 - 174.0	Nepheline Diorite (3A) Alternation Rock				
174.0 - 175.3	Biotite Carbonate Onesins (4)				
175.3 - 178.4	Biotite Carbonate Onesins (4)				
178.4 - 181.0	Biotite Carbonate Onesins (4)				
181.0 - 275.5	Nepheline Diorite (3A) Alternation Rock				

N.M.P. TORONTO - STOCK FORM NO 501 REV 12/51

DRILLED BY Canadian Engineering Ltd.

SIGNED [Signature]

DIAMOND DRILL RECORD

PROPERTY Chyma Mines Limited HOLE NO. 23

SHEET NUMBER 2 SECTION FROM 275.5 TO 497.0 STARTED Nov 26/54

LATITUDE Line 14 00 North DATUM West (Ass) COMPLETED Nov 29/54

DEPARTURE 4 75 east No. B.L. BEARING Collar-45 ULTIMATE DEPTH 497

ELEVATION _____ DIP 200'-45 400'-42 PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD g	SLUDGE GOLD g
	229.6'-230.9 Greenstone 247.9'-249.8 Greenstone				
275.5-299.4	Biotite Pyroxene Gneiss (5)-magnetite varying from 5-30% carbonated				
299.4-301.5	Nepheline Chlorite (3A) Alteration Rock				
301.5-356.0	Biotite Pyroxene Gneiss (5)-sections folios of (6), sheared and carbonated. Shearing at 45.				
356.0-365.6	Nepheline Chlorite-(3A)-Alteration Rock				
365.6-402.0	Biotite Pyroxene Gneiss (5) - sections attaining folios of (6). Sheared and carbonated. Shearing at 45 to core				
402.5-492.2	365.6-366.6- very fine grained sedimentary looking rock with gross laminations resembling cross-bedding 395.0-397.4- massive crystalline magnetite. Nepheline Gabbro (3A) Alteration rock-considerable coarse biotite with crystalline magnetite varying from 5-10%.				
492.2-494.6	415.4-416.7.-Biotite Carbonate Gneiss (4)				
494.6-497.0	Greenstone (6) Biotite Pyroxene Gneiss (5)				
	End of Hole				

N.M.P. TORONTO-STOCK FORM NO. 501 REV. 12/51

DRILLED BY Canadian Longyear Ltd.

SIGNED [Signature]

OHYKA MINES LIMITED
Sample Assay Sheet
Diamond Drill Hole No. 24

<u>Sample No.</u>	<u>From</u>	<u>To</u>	<u>Core Length</u>	<u>% Nickel</u>
CH-167	58.0'	66.2'	8.2'	_____
CH-168	196.5'	198.0'	1.5'	_____
CH-169	257.0'	261.4'	4.4'	_____

M. Zarowski
M. Zarowski

Chyka Mines Limited
Sample Assay Sheet
Diamond Drill Hole No. 25

<u>Sample No.</u>	<u>From</u>	<u>To</u>	<u>Core Length</u>	<u>Assay % Niobium</u>
CH-170	17.0'	37.0'	20.0'	_____
CH-171	37.0'	53.3'	16.3'	_____
CH-172	53.3'	64.5'	11.2'	_____
CH-173	64.5'	86.8'	22.3'	_____
CH-174	86.8'	110.2'	23.4'	_____
CH-175	110.2'	116.0'	5.8'	_____
CH-176	123.4'	141.0'	17.6'	_____
CH-177	141.0'	161.0'	20.0'	_____

M. Zurowski
M. Zurowski

DIAMOND DRILL RECORD

PROPERTY ORVA MINES LIMITED

HOLE NO. 46

SHEET NUMBER

SECTION FROM 0.0 TO 297.0

STARTED Dec 6/54

LATITUDE

Line 17400 North

DATUM

COMPLETED Dec 7/54

DEPARTURE

4400 East of W.I. B.L.

BEARING

West (Ast)

ULTIMATE DEPTH 297.0

ELEVATION

DIP

Collar 45

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	BUDGET GOLD \$
0.0-17.0	Casing				
17.0-74.1	Nepheline Gabbro(3B) Alteration Rock - garnetiferous 24.0-34.0-considerable more pliotite, giving rock gneissic structure 38.9-40.0-Lamprockhyre Dike (TA)-U.C. 340				
74.1-79.1	Nepheline Pliotite(3A) Alteration Rock-gradational contacts				
79.1-194.8	Nepheline Gabbro (3B) Alteration Rock- same as 17.0-74.1 100.6-102.0-some reddish alteration 148.8-154.0-				
194.8-203.8	Greenstone(6) - nephelinized and carbonated, banking at 45-70 to core				
203.8-222.9	Nepheline Gabbro(3B) Alteration Rock				
222.9-227.4	Greenstone(6)-tuffaceous				
227.4-278.0	Nepheline Gabbro(3B) Alteration Rock				
278.0-280.0	Biotite Carbonate Onelas(4) - feldspathic and reddish alteration				
280.0-297.0	Nepheline Gabbro (3B) Alteration Rock- narrow sections of (4). End of Hole				

N.M.P. TORONTO - STOCK FORM NO. 501 REV. 12/51

Canadian Longyear Ltd
DRILLED BY

SIGNED *[Signature]*

Ohyka Mines Limited
Sample Assay Sheet
Diamond Drill Hole No.26

<u>Sample No.</u>	<u>From</u>	<u>To</u>	<u>Core Length</u>	<u>% Niobium</u>
Ch-184	40.0	50.0	10.0 Ft.	_____
Ch-185	55.0	75.0	20.0 "	_____
Ch-186	148.8	154.0	5.2 "	_____
Ch-187	194.8	203.8	9.0 "	_____

M. Zurovski
M. Zurovski

DIAMOND DRILL RECORD

PROPERTY Ogiva Mines Limited

HOLE NO. 27

SHEET NUMBER I

SECTION FROM 0.0 TO 423.0

STARTED Dec. 8/54

LATITUDE Line 17+00 North

DATUM _____

COMPLETED Dec. 10/5

DEPARTURE 7+00 East no. B.L.

BEARING West (Asc)

ULTIMATE DEPTH 423.

ELEVATION _____

DIP 0111ar-40; 300140

PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD S	SLUDGE GOLD
0-18.0	Casing				
18.0-121.3	Nepheline Gabbro(3B) - 8.0-25.0- very basic and sections staining texture of intrusive gabbro.				
121.3-128.3	Biotite Carbonate Gneiss(4) - Feldspathised with reddish mineral				
128.3-273.2	Nepheline Gabbro(3B) - magnetite carrying from 5-15% 163.0-168.0- facies of 6 189.7-192.5- kampfpyrite discs (1B) 198.5-240.0- garnelliferous, sparse pyrrhotite and flakes of chalcopyrite. 246.3-249.4-(5)				
273.2-303.6	Biotite Pyroxene Gneiss(5) - coarse biotite with facies of 3B and 6. Carbonated.				
303.6-351.7	Nepheline Gabbro (3B) - generally 3B with facies of 5.				
351.7-370.0	Biotite Carbonate Gneiss(4) - carbonated with reddish mineral.				
370.0-374.5	Nepheline Gabbro (3B)				
374.5-403.1	Biotite Pyroxene Gneiss(5)				
403.1-423.0	Nepheline Gabbro (3B).				
	End of Hole				

M.P. TORONTO-STOCK FORM NO. 501 REV. 12/51

Canadian Longyear Limited

DRILLED BY _____

SIGNED _____

[Signature]

Chyka Mines Limited
Sample Assay Sheet
Diamond Drill Hole No. 27.

<u>Sample No.</u>	<u>From</u>	<u>To</u>	<u>Core Length</u>	<u>Assay % Niobium</u>
Ch-198	121.3	128.3	7.0 Ft.	_____
Ch-199	200.0	225.0	25.0 "	_____
Ch-200	273.2	303.6	30.4 "	_____ <i>60</i> _____
Ch-201	351.7	370.0	18.3 "	_____
Ch-202	374.5	403.1	28.6 "	_____

M. Zurowski
M. Zurowski

CHYKA MINES LIMITED
Sample Assay Sheet
Diamond Drill Hole No. 28

<u>Sample No.</u>	<u>From</u>	<u>To</u>	<u>Core Length</u>	<u>Nickel</u>
CH-208	50.0'	60.0'	10.0'	_____
CH-209	150.0'	175.0'	25.0'	_____
CH-210	226.2'	228.3'	2.1'	_____
CH-211	251.7'	263.7'	12.0'	_____

M. Zarowski

M. Zarowski

S-7-22C
 Lockner Shp.

DIAMOND DRILL RECORD

Assignment Hole No. 1 Sheet No.

Property John Chyka
 Location Lockner Twp. Dist. of Sudbury

350' S & 160' W of No. 1 Post S-54144

Latitude ---
 Departure ---
 Bearing N 52° E

Dip 45°
 Total Footage 265'

Elev. Collar ---
 Datum ---
 Date Started 12 October 1951
 Date Completed 18 October 1951
 Drilled by R. Tuttle
 Logged by C. S. Jessop

From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
0	5	COARSE GRAINED SYENITE					
5	23	DARK FINE GRAINED SYENITE WITH MAGNETITE					
23	27.5	COARSE GRAINED LIGHT SYENITE					
27.5	28.5	DARK FINE GRAINED SYENITE WITH MAGNETITE					
28.5	34	FINE GRAINED LIGHT SYENITE					
34	54.5	DARK GRAINED SYENITE WITH MAGNETITE					
54.5	56.5	RED FELDSPAR PORPHYRY					
56.5	79	DARK SYENITE WITH MAGNETITE					
79	85	FINE GRAINED LIGHT SYENITE					
85	88	DARK SYENITE WITH MAGNETITE					
88	90	FELDSPAR PORPHYRY					
90	100	DARK SYENITE WITH TRACES OF MAGNETITE					
100	162	BRECCIA					
162	175	DARK FINE GRAINED SYENITE					
175	200	COARSE GRAINED SYENITE WITH RED FELDSPAR & MAGNETITE CRYSTALS					
200	215	DARK FINE GRAINED SYENITE WITH MAGNETITE					
215	225	COARSE GRAINED SYENITE					
225	240	DARK FINE GRAINED SYENITE					
240	265	COARSE GRAINED SYENITE WITH RED FELDSPAR					
		End of hole at 265.					

Date of Examination 9 November 1951.

C. S. Jessop

THE MINING ACT



900

To the Recorder of SUDBURY Mining Division:

I, CHYKA MINES LIMITED
(Name of Applicant)

Suite 405, 25 Adelaide Street, West, Toronto, Ontario
(Post Office Address)

the recorded holder of mining claim No. S-54141 hereby report the performance of 627.2 days' work not before reported.

* This mining claim is one of a group of contiguous claims numbered S-54136;
S-54139 to S-54141 inclusive; S-54145 to S-54149 inclusive.

of which I am the recorded holder under Mining Licence No. A.28409, and the work was performed on mining claim(s) S-54136; S-54139 to S-54141 inclusive and is to be applied in respect of mining claim(s) All

(*Complete above section only if applicable)

Lackner Corp.

The work is as follows:

Plans on S-54136

Stripping or opening up mines, sinking shafts or other actual mining operations

The names and addresses of the men who performed the work and the dates upon which each man worked in its performance are: (If more space is required, attach list).

.....
.....
.....
.....

Total No. of days.....

Diamond or other Core Drilling

Footage drilled 5645 No. of holes drilled 18 Angle 40° and 45°

Diameter of core AXT 1-5/16" Names and address of owner and operator of

drill CANADIAN LONGYEAR LIMITED North Bay, Ontario

Dates upon which drilling was done During period September 30th to December 16th, 1954
(per accompanying report.)

(Core log accompanies this report).

Total No. of days 5645

Work by Compressed Air or other Power Driven Rock Drill

Type of drill.....

Names and addresses of men engaged in operating drill.

.....
.....

Dates upon which each man worked.....

Total No. of days.....

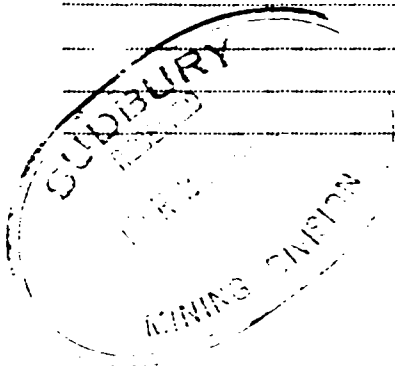
Geophysical Survey

Type of instrument used.....

Names and addresses of men employed and the dates on which each worked are:

.....
.....
.....

Total No. of days.....



Geological Survey

Names and addresses of men employed and the dates on which each worked are:

.....
.....
.....

Total No. of days

Power Stripping

Type of equipment used

Names and addresses of owner and operators

.....
.....
.....

Amount expended \$

Dates on which work was done

Total No. of days

The following diagram shows the approximate location of the work done and the nature and extent thereof:

IMPORTANT

Attach sketch showing location of work in relation to corner posts, and nature and extent thereof.

Date February 2nd, 1955

CHYKA MINES LIMITED

[Handwritten Signature]

(Signature of Recorded Holder)

Form 16

Affidavit Verifying Report of Work

County (or District)

of York

To Wit:

I, SIMARD AND KNIGHT

of the City of Toronto

in the County of York

make oath and say:

1. I am the Mining Consultants for Chyka Mines Limited and as such I have a personal and intimate knowledge of the facts hereinafter deposed to, and the grounds of my knowledge are:

(Recorded Holder or His Agent)

as Mining Consultants to the Company

2. That the annexed report is true.

Sworn before me at the

City of Toronto

in the County of York

this 9th day of February 19 55

SIMARD AND KNIGHT

[Handwritten Signature]

Suite 403 - 25 Adelaide Street, West, Toronto, Ontario

(Post Office Address)

[Handwritten Signature]
Mining Recorder or Commissioner, etc.

THE MINING ACT



REPORT OF WORK

ONTARIO

To the Recorder of SUDBURY Mining Division:

I, CHYKA MINES LIMITED

(Name of Applicant)

Suite 405, 25 Adelaide Street, West, Toronto, Ontario

(Post Office Address)

the recorded holder of mining claim No. S-54140 hereby report the performance of 627.2 days' work not before reported.

* This mining claim is one of a group of contiguous claims numbered S-54136;
S-54139 to S-54141 inclusive; S-54145 to S-54149 inclusive,
of which I am the recorded holder under Mining Licence No. A. 28409, and the work
was performed on mining claim(s) S-54136; S-54139 to S-54141 inclusive
S-54145 to S-54146 inclusive; S-54148 and is to be applied
in respect of mining claim(s) All

(*Complete above section only if applicable)

The work is as follows:

Plans on S-54136

Stripping or opening up mines, sinking shafts or other actual mining operations

The names and addresses of the men who performed the work and the dates upon which each man worked in its performance are: (If more space is required, attach list).

Lachar Styer

Total No. of days

Diamond or other Core Drilling

Footage drilled 5645 No. of holes drilled 18 Angle 40° and 45°

Diameter of core AXT 1-5/16" Names and address of owner and operator of

drill CANADIAN LONGYEAR LIMITED, North Bay, Ontario

Dates upon which drilling was done During period September 30th to December 16th, 1954
(per accompanying report)

(Core log accompanies this report).

Total No. of days 5645

Work by Compressed Air or other Power Driven Rock Drill

Type of drill

Names and addresses of men engaged in operating drill.

Dates upon which each man worked

Total No. of days

Geophysical Survey

Type of instrument used

Names and addresses of men employed and the dates on which each worked are:

Geological Survey

Names and addresses of men employed and the dates on which each worked are:

.....
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.....

Total No. of days.....

Power Stripping

Type of equipment used.....

Names and addresses of owner and operators.....

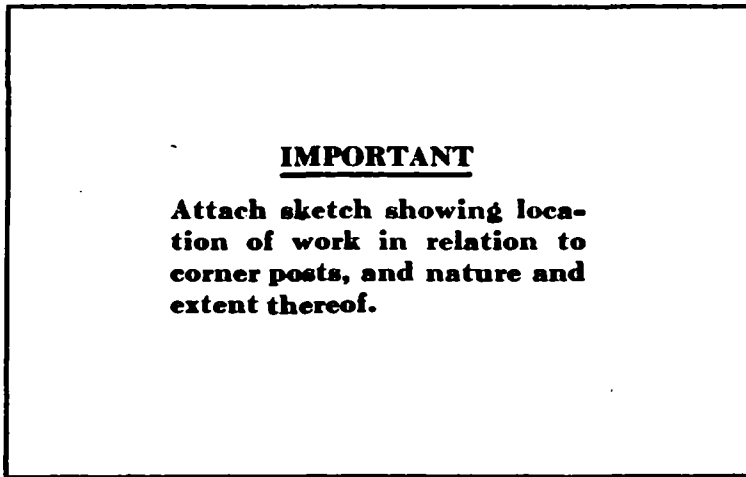
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Amount expended \$.....

Dates on which work was done.....

Total No. of days.....

The following diagram shows the approximate location of the work done and the nature and extent thereof:



Date February 2nd, 1955

CHYKA MINES LIMITED.

(Signature of Recorded Holder)

Form 15

Affidavit Verifying Report of Work

County (or District) of York I, SIMARD AND KNIGHT
of York of the City of Toronto
in the County of York
To Wit: make oath and say:

Mining Consultants for
1. I am the Chyka Mines Limited and as such I have a personal and intimate
(Recorded Holder or His Agent)
knowledge of the facts hereinafter deposed to, and the grounds of my knowledge are:
as Mining Consultants to the Company

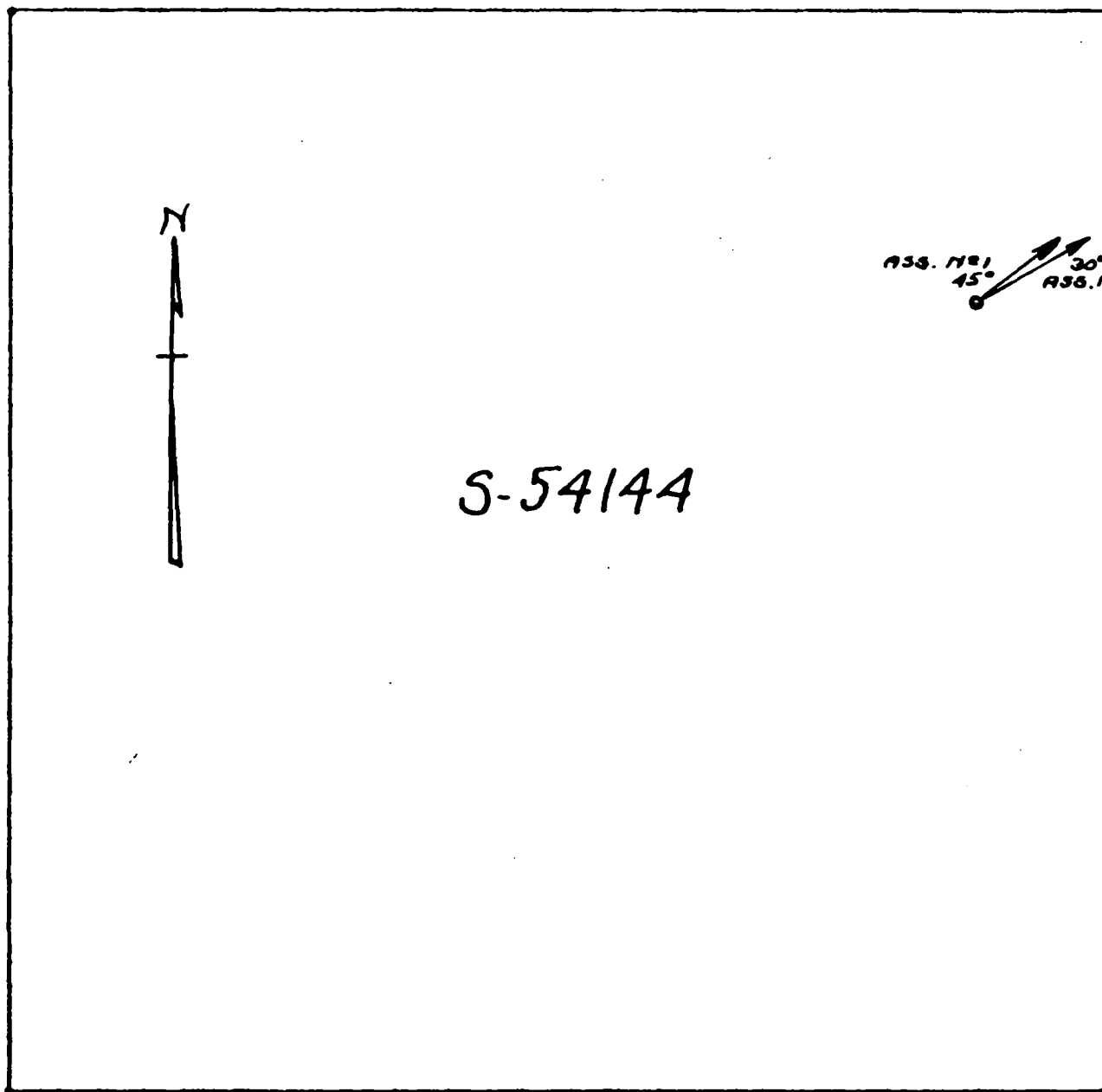
2. That the annexed report is true.

SIMARD AND KNIGHT

Sworn before me at the
City of Toronto
in the County of York this 9th of
day of February 19 55

Suite 403 - 25 Adelaide Street, West,
Toronto, Ontario
(Post Office Address)

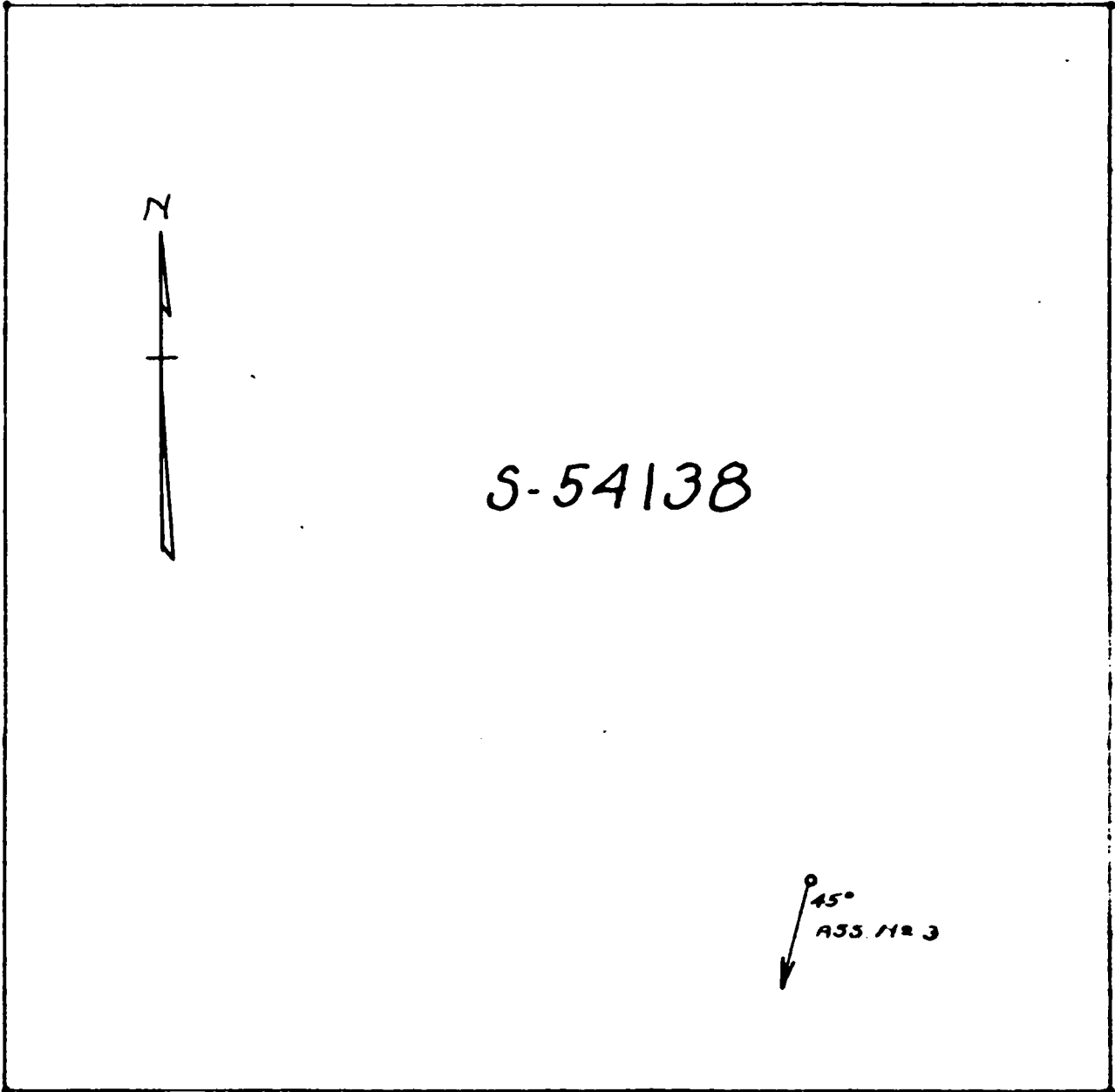
Mining Recorder or Commissioner, etc.



LACKNER TWP.

Scale: 1" = 200'

JOHN CHYKA.



LACKNER TWP.
Scale: 1"=200'

JOHN CHYKA

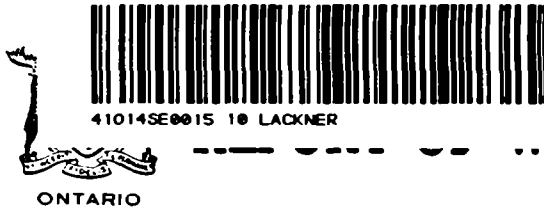


	S-56872	S-56871	S-54137
	S-56873	S-54138	
S-54142	S-54143	S-54144	
S-54150			

LACHNER TWP
JOHN CHYKA CLAIMS

Scale: 2" = 1/4 MI.

THE MINING ACT



900

To the Recorder of SUDBURY Mining Division:

I, CHYKA MINES LIMITED
(Name of Applicant)

Suite 405, 25 Adelaide Street, West, Toronto, Ontario
(Post Office Address)

the recorded holder of mining claim No. S-54141 hereby report the performance of 627.2 days' work not before reported.

* This mining claim is one of a group of contiguous claims numbered S-54136;
S-54139 to S-54141 inclusive; S-54145 to S-54149 inclusive.

of which I am the recorded holder under Mining Licence No. A.28409, and the work was performed on mining claim(s) S-54136; S-54139 to S-54141 inclusive; S-54145 to S-54146 inclusive; S-54148 and is to be applied in respect of mining claim(s) All

(*Complete above section only if applicable)

Lackner Corp.

The work is as follows:

Plan on S-54136

Stripping or opening up mines, sinking shafts or other actual mining operations

The names and addresses of the men who performed the work and the dates upon which each man worked in its performance are: (If more space is required, attach list).

.....
.....
.....
.....

Total No. of days.....

Diamond or other Core Drilling

Footage drilled 5645 No. of holes drilled 18 Angle 40° and 45°

Diameter of core AXT 1-5/16" Names and address of owner and operator of

drill CANADIAN LONCYEAR LIMITED North Bay, Ontario

Dates upon which drilling was done During period September 30th to December 16th, 1954
(per accompanying report)

(Core log accompanies this report).

Total No. of days 5645

Work by Compressed Air or other Power Driven Rock Drill

Type of drill.....

Names and addresses of men engaged in operating drill.
.....
.....

Dates upon which each man worked.....

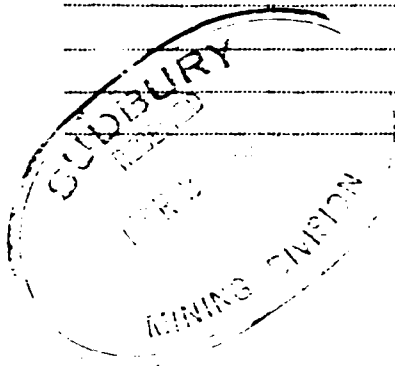
Total No. of days.....

Geophysical Survey

Type of instrument used.....

Names and addresses of men employed and the dates on which each worked are:
.....
.....

Total No. of days.....



Geological Survey

Names and addresses of men employed and the dates on which each worked are:

.....
.....
.....

Total No. of days

Power Stripping

Type of equipment used

Names and addresses of owner and operators

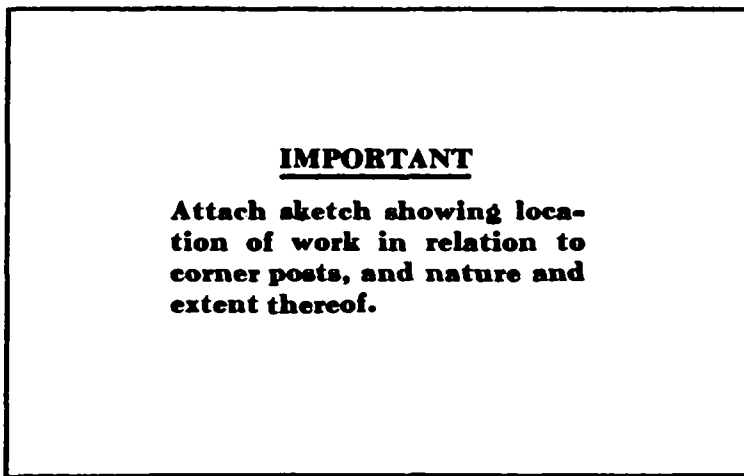
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Amount expended \$

Dates on which work was done

Total No. of days

The following diagram shows the approximate location of the work done and the nature and extent thereof:



IMPORTANT

Attach sketch showing location of work in relation to corner posts, and nature and extent thereof.

Date February 2nd, 1955

CHYKA MINES LIMITED

(Signature of Recorded Holder)

Form 16

Affidavit Verifying Report of Work

County (or District) of York } I, SIMARD AND KNIGHT
of York } of the City Toronto
To Wit: } in the County York
make oath and say;

1. I am the Mining Consultants for Chyka Mines Limited and as such I have a personal and intimate knowledge of the facts hereinafter deposed to, and the grounds of my knowledge are: as Mining Consultants to the Company

2. That the annexed report is true.

Sworn before me at the City Toronto of Toronto in the County York of York this 9th day of February 19 55

SIMARD AND KNIGHT

Suite 403 - 25 Adelaide Street, West, Toronto, Ontario
(Post Office Address)

Mining Recorder or Commissioner, etc.

THE MINING ACT



REPORT OF WORK

ONTARIO

To the Recorder of SUDBURY Mining Division:

I, CHYKA MINES LIMITED

(Name of Applicant)

Suite 405, 25 Adelaide Street, West, Toronto, Ontario

(Post Office Address)

the recorded holder of mining claim No. S-54140 hereby report the performance of 627.2 days' work not before reported.

* This mining claim is one of a group of contiguous claims numbered S-54136; S-54139 to S-54141 inclusive; S-54145 to S-54149 inclusive, of which I am the recorded holder under Mining Licence No. 1,284,09, and the work was performed on mining claim(s) S-54136; S-54139 to S-54141 inclusive; S-54145 to S-54146 inclusive; S-54148 and is to be applied in respect of mining claim(s) All

(*Complete above section only if applicable)

The work is as follows:

Plans in S-54136

Stripping or opening up mines, sinking shafts or other actual mining operations

The names and addresses of the men who performed the work and the dates upon which each man worked in its performance are: (If more space is required, attach list).

Lachar Styer

Total No. of days.....

Diamond or other Core Drilling

Footage drilled 5645 No. of holes drilled 18 Angle 40° and 45°

Diameter of core AXT 1-5/16" Names and address of owner and operator of

drill CANADIAN LONGYEAR LIMITED, North Bay, Ontario

Dates upon which drilling was done During period September 30th to December 16th, 1954 (per accompanying report)

(Core log accompanies this report).

Total No. of days..... 5645

Work by Compressed Air or other Power Driven Rock Drill

Type of drill.....

Names and addresses of men engaged in operating drill.

Dates upon which each man worked.....

Total No. of days.....

Geophysical Survey

Type of instrument used.....

Names and addresses of men employed and the dates on which each worked are:

Geological Survey

Names and addresses of men employed and the dates on which each worked are:

.....
.....
.....

Total No. of days

Power Stripping

Type of equipment used

Names and addresses of owner and operators

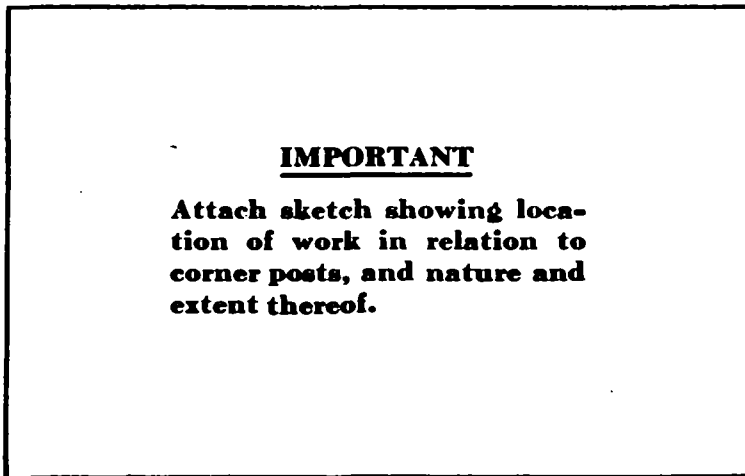
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Amount expended \$

Dates on which work was done

Total No. of days

The following diagram shows the approximate location of the work done and the nature and extent thereof:



IMPORTANT

Attach sketch showing location of work in relation to corner posts, and nature and extent thereof.

Date February 2nd, 1955

CHYKA MINES LIMITED.

(Signature of Recorded Holder)

Form 16

Affidavit Verifying Report of Work

County (or District) of York I, SIMARD AND KNIGHT of the City of Toronto in the County of York make oath and say;

To Wit: Mining Consultants for Chyka Mines Limited (Recorded Holder or His Agent) and as such I have a personal and intimate knowledge of the facts hereinafter deposed to, and the grounds of my knowledge are: as Mining Consultants to the Company

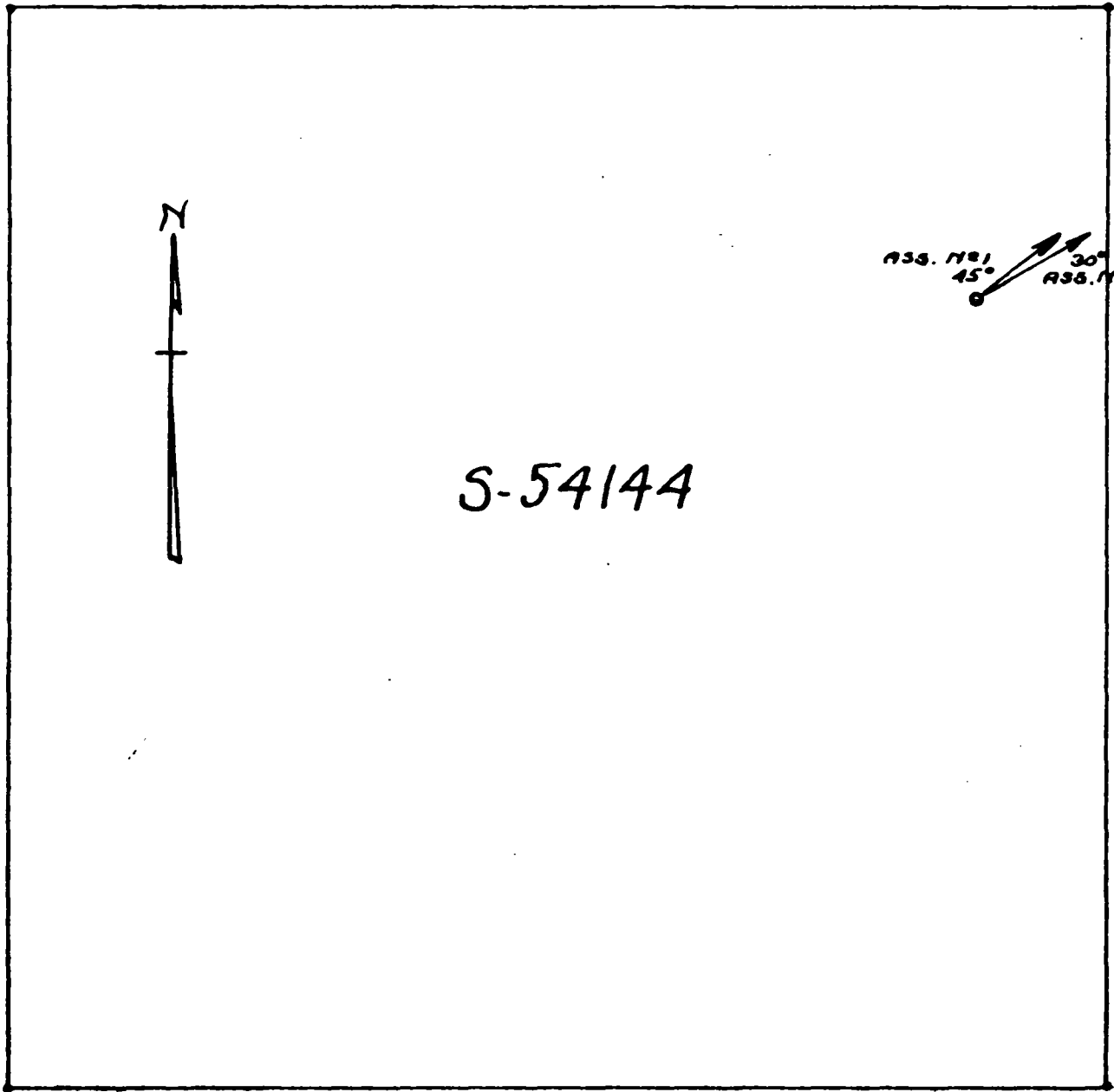
2. That the annexed report is true.

SIMARD AND KNIGHT

Sworn before me at the City of Toronto in the County of York this 9th day of February 19 55

Suite 403 - 25 Adelaide Street, West, Toronto, Ontario (Post Office Address)

Mining Recorder or Commissioner, etc.

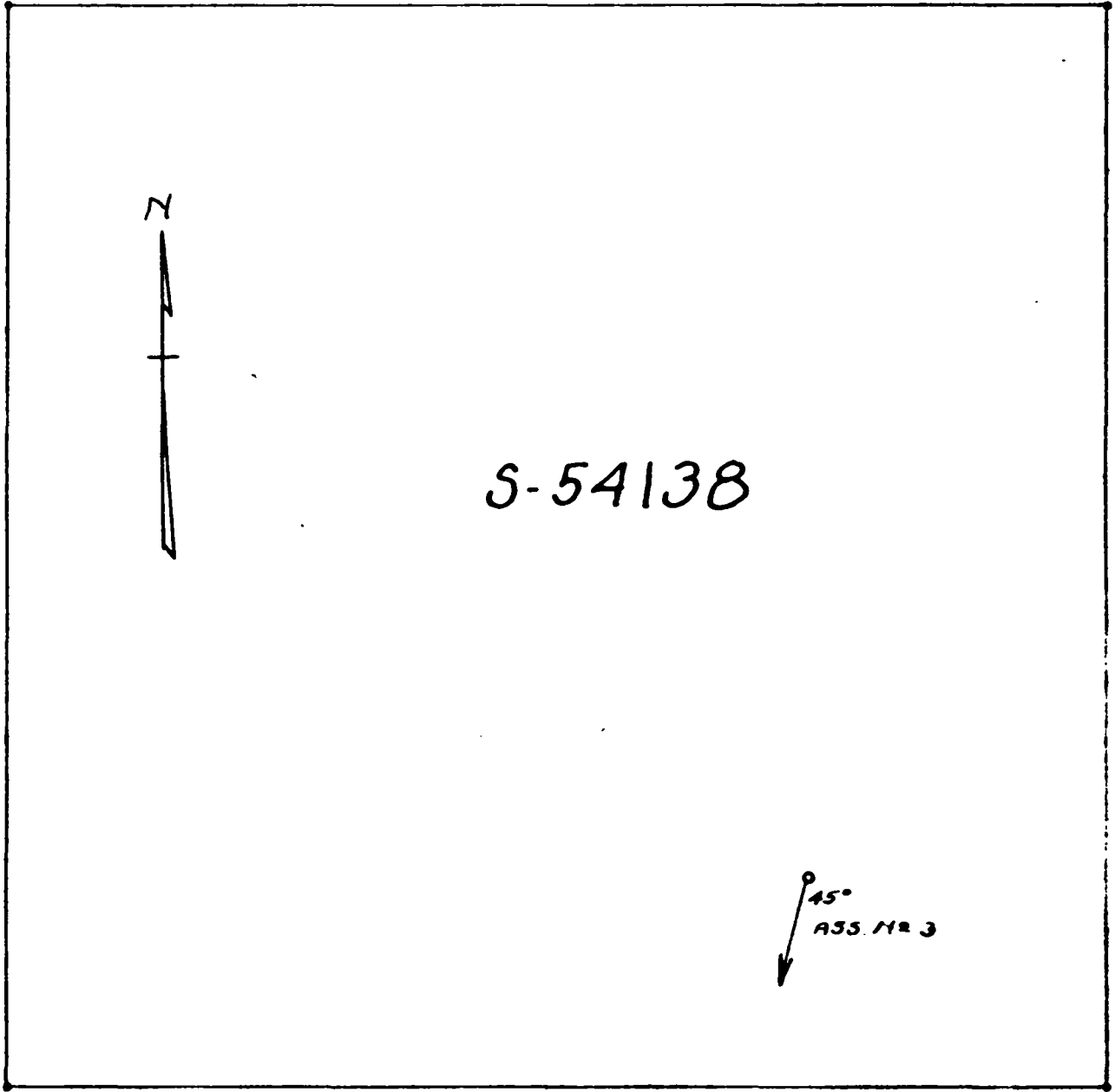


S-54144

LACKNER TWP.

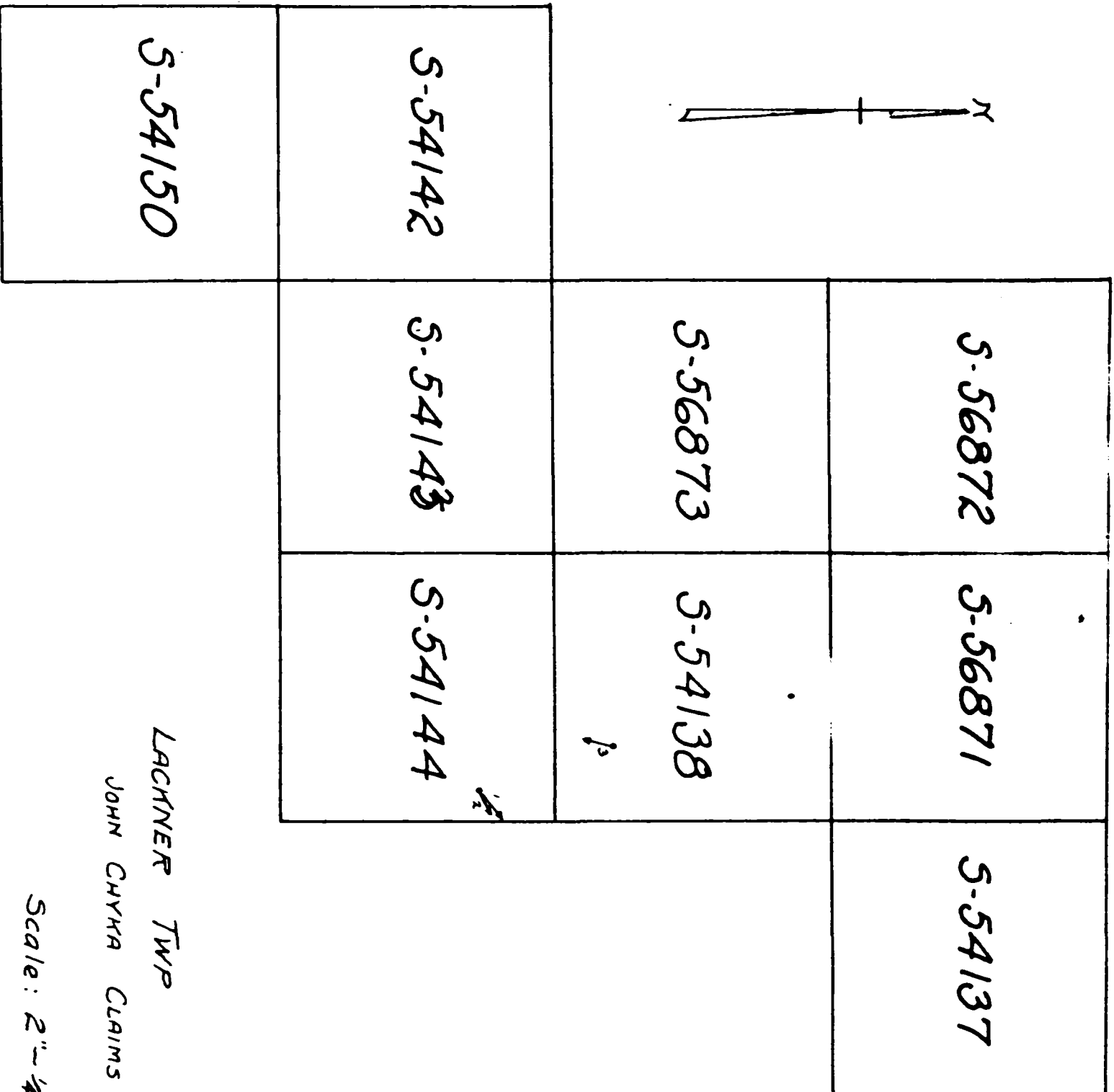
Scale: 1" = 200'

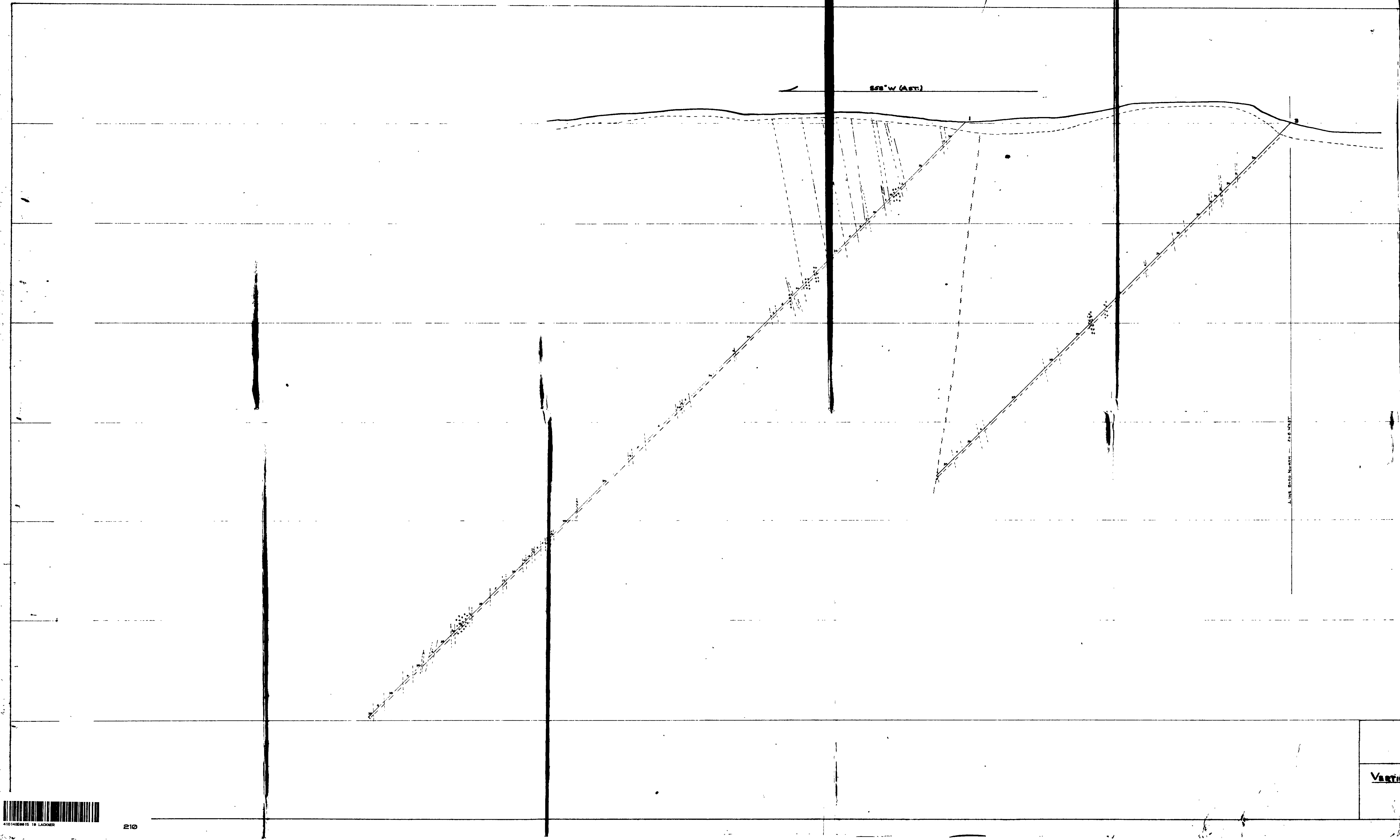
JOHN CHYKA.



LACHNER TWP.
Scale: 1"=200'

JOHN CHYKA





LEGEND

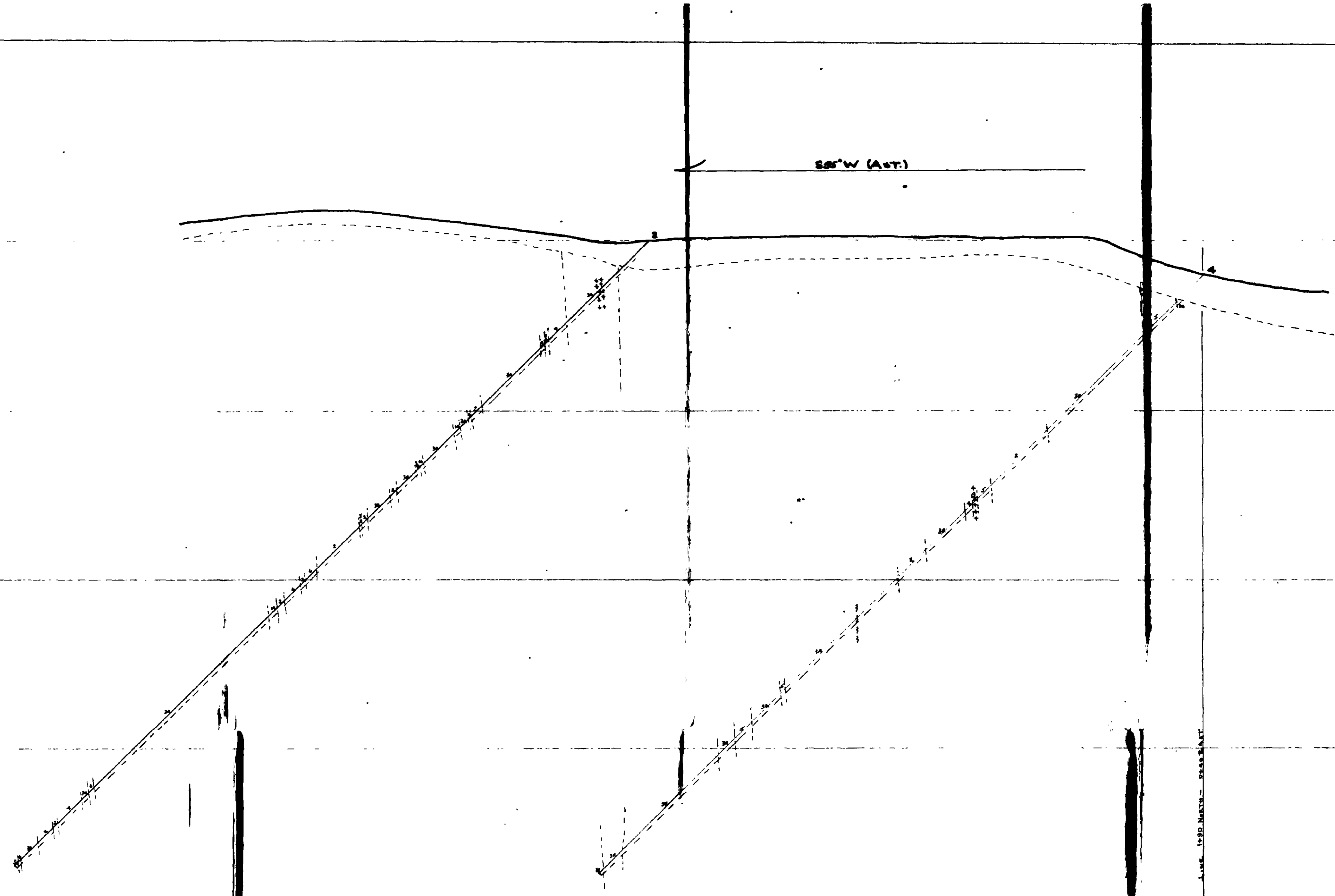
- 1 BASIC DIORITE (A) LAMPROPHYRE DIORITE (B)
- 2 NEPHELINE SYENITE
- 3 NEPHELINE SYENITE (SA) NEPHELINE GABRO (SB)
ALYSONTON GNEISS
- 4 BIFURCATE CARBONATE GNEISS
- 5 BIFURCATE NEPHELINE GNEISS
- 6 GREENSTONE
- 7 HORNBLAND TALSPEAR GNEISS
- +++++ CRYSTALLINE MAGNETITE

CHYKA MINES LIMITED
LACKNER TOWNSHIP - ONTARIO

VERTICAL SECTION DIAMOND DRILL HOLES 18

Scale 1" = 40'





LEGEND

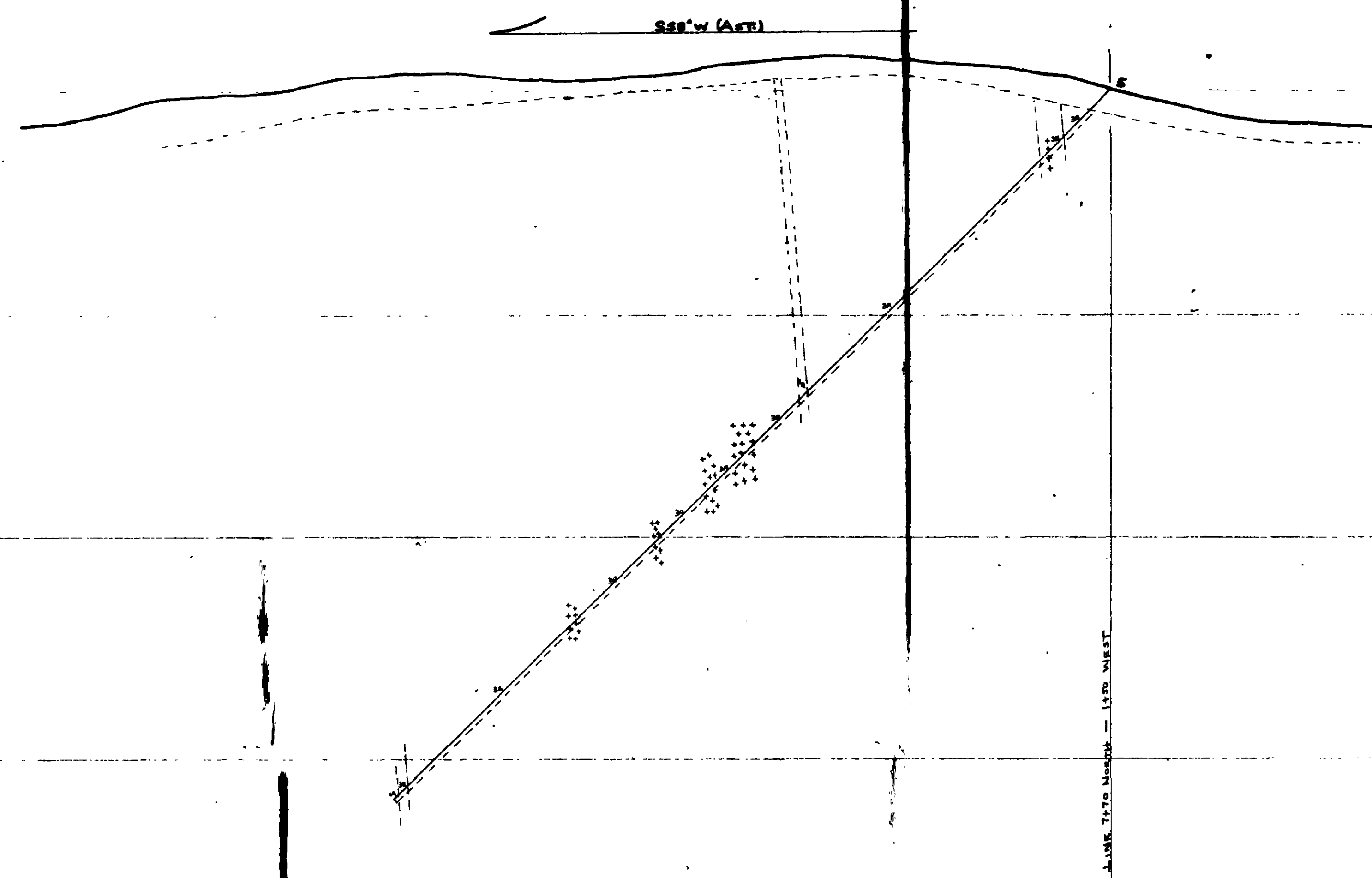
1	BASIC DIORITE / LAMPROPHYRE DIORITE
2	NEPHELINE SYENITE
3	NEPHELINE SYENITE (S) / NEPHELINE GABRO (S) / ALTERATION ZONE
4	SILTY CARBONATE GNEISS
5	SILTY PYROXENE GNEISS
6	GREENSTONE
7	POORLY SORTED TRAPS / GNEISS
+	CRYSTALLINE MAGNETITE

CHYKA MINES LIMITED
LACKNER TOWNSHIP - ONTARIO

VERTICAL SECTION DIAMOND DRILL HOLES 2, 4

Scale 1:40'





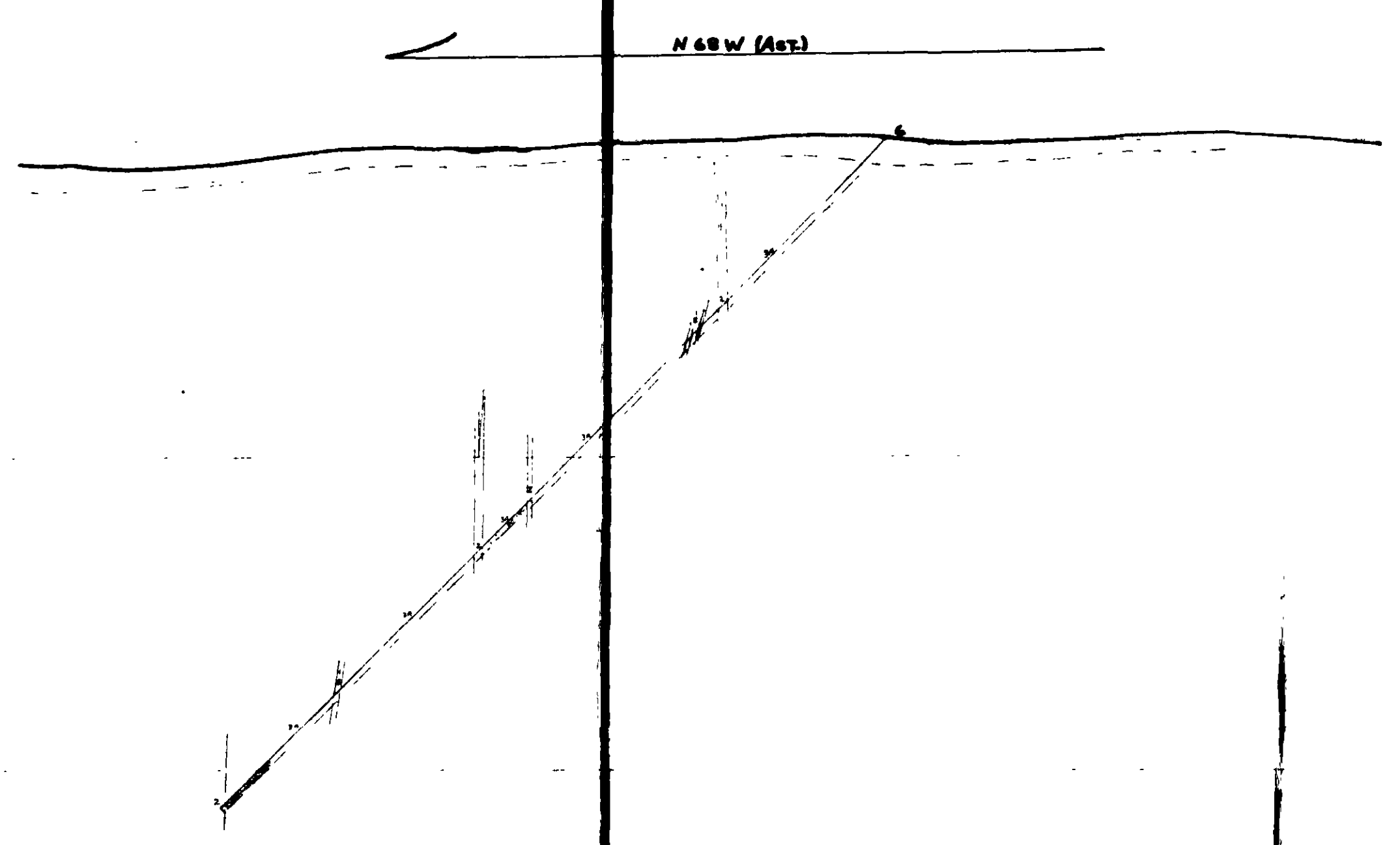
LEGEND

- 1 BASIC DIORITE (B) LAMPSONITE DIORITE (B)
- 2 NEPHELINE SYENITE
- 3 NEPHELINE DIORITE (B) NEPHELINE GABBRIO (B) ALTERATION ZONE
- 4 DIORITE CARBONATE GNEISS
- 5 DIORITE PYROXENE GNEISS
- 6 GRANITONE
- 7 HORNBLENDE TALSIPAR GNEISS
- ++++ CRYSTALLINE MAGNETITE

CHYKA MINES LIMITED
 LACKNER TOWNSHIP - ONTARIO

VERTICAL SECTION **DIAMOND DEEP HOLES**
 Scale 1" = 40'



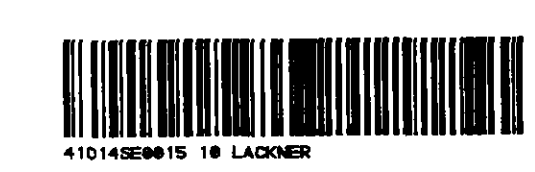


- Legend**
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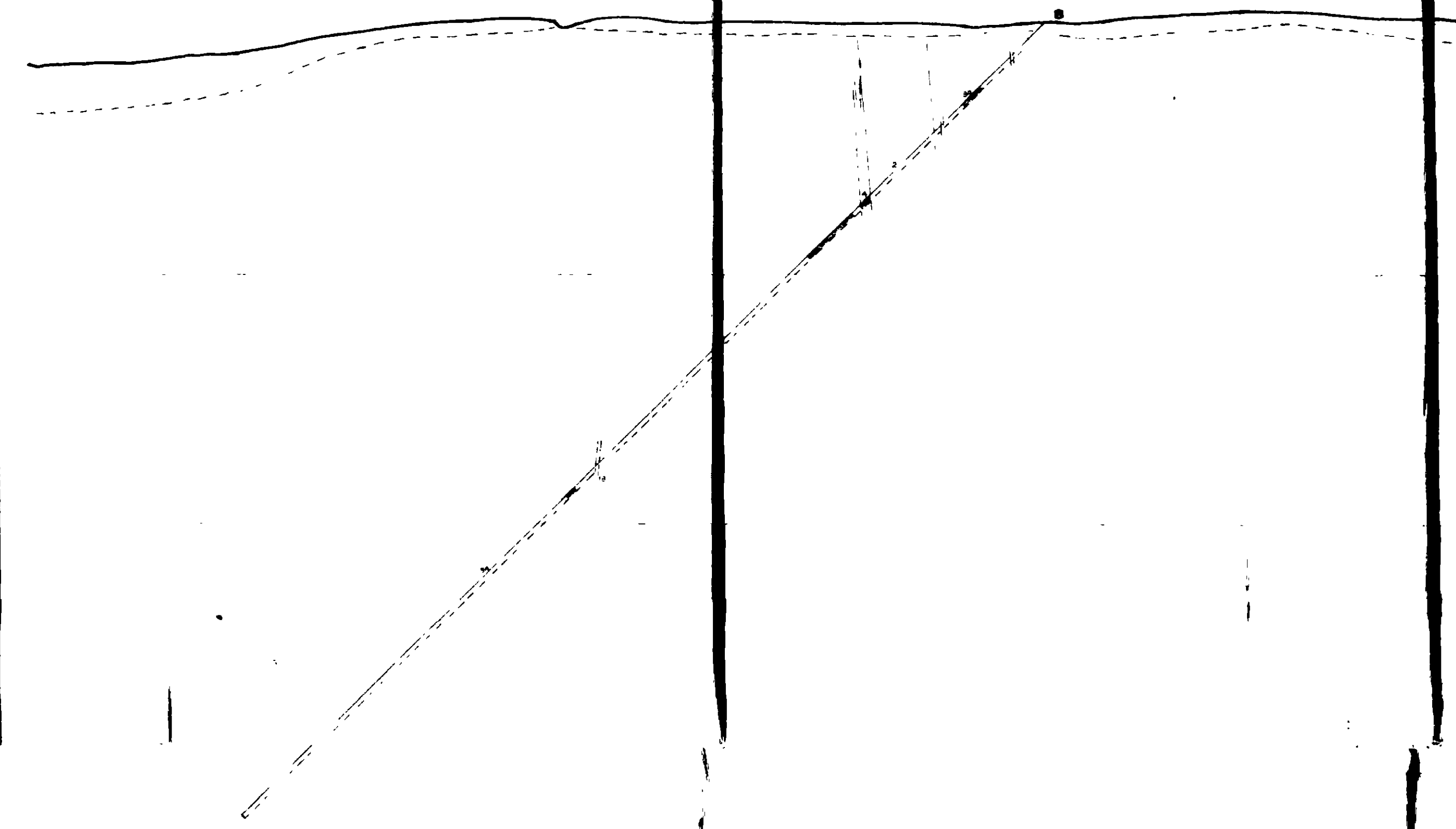
CHYKA MINES LIMITED
LACKNER TOWNSHIP - ONTARIO

VERTICAL SECTION **DIAMOND DRILL HOLES 6**

Scale 1" = 40'



N 68W (Approx)



LEGEND

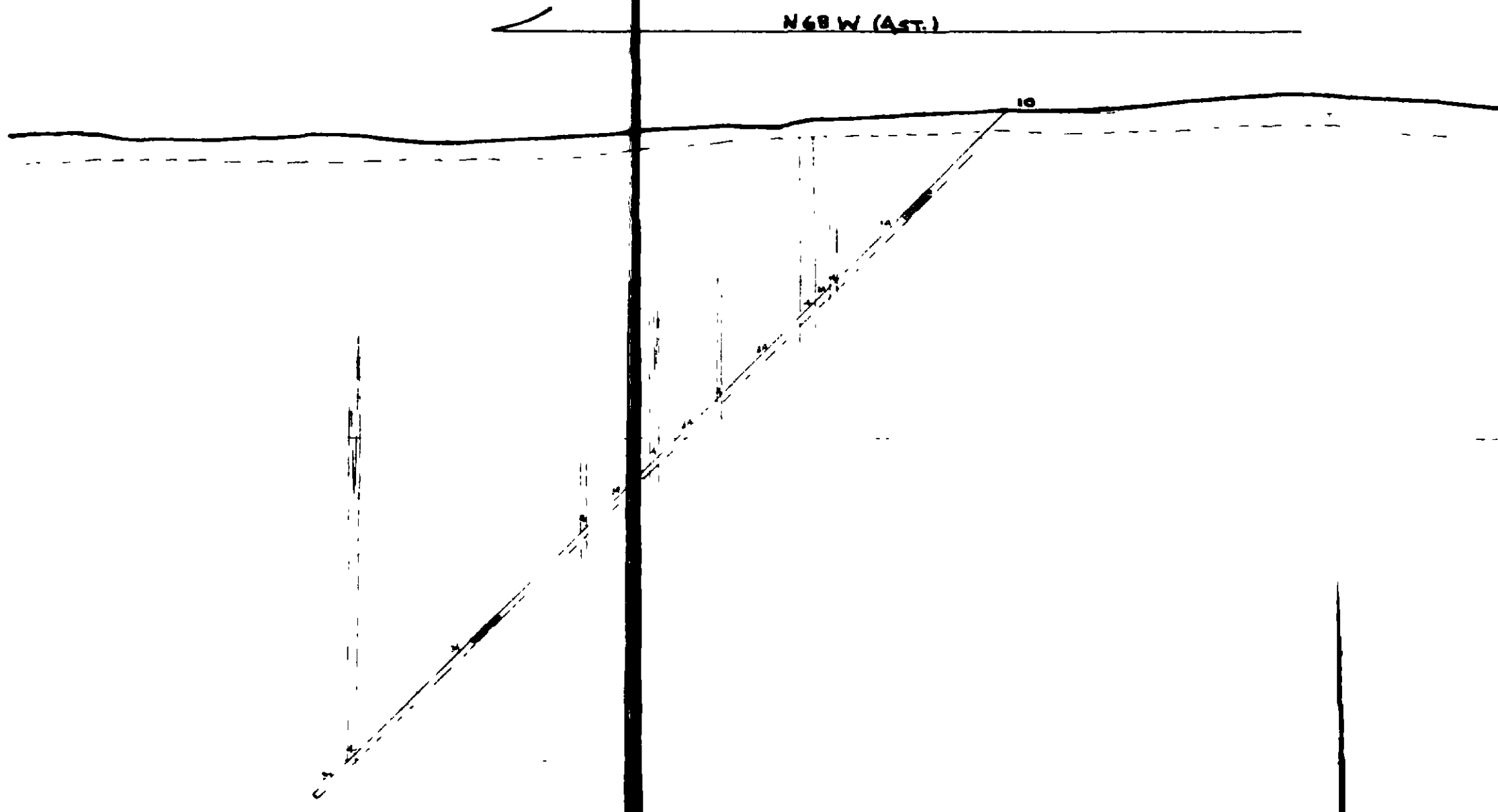
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CHYKA MINES LIMITED
LACKNER TOWNSHIP - ONTARIO

VERTICAL SECTION DIAMOND DRILL HOLES B

Scale 1" = 40'





LEGEND

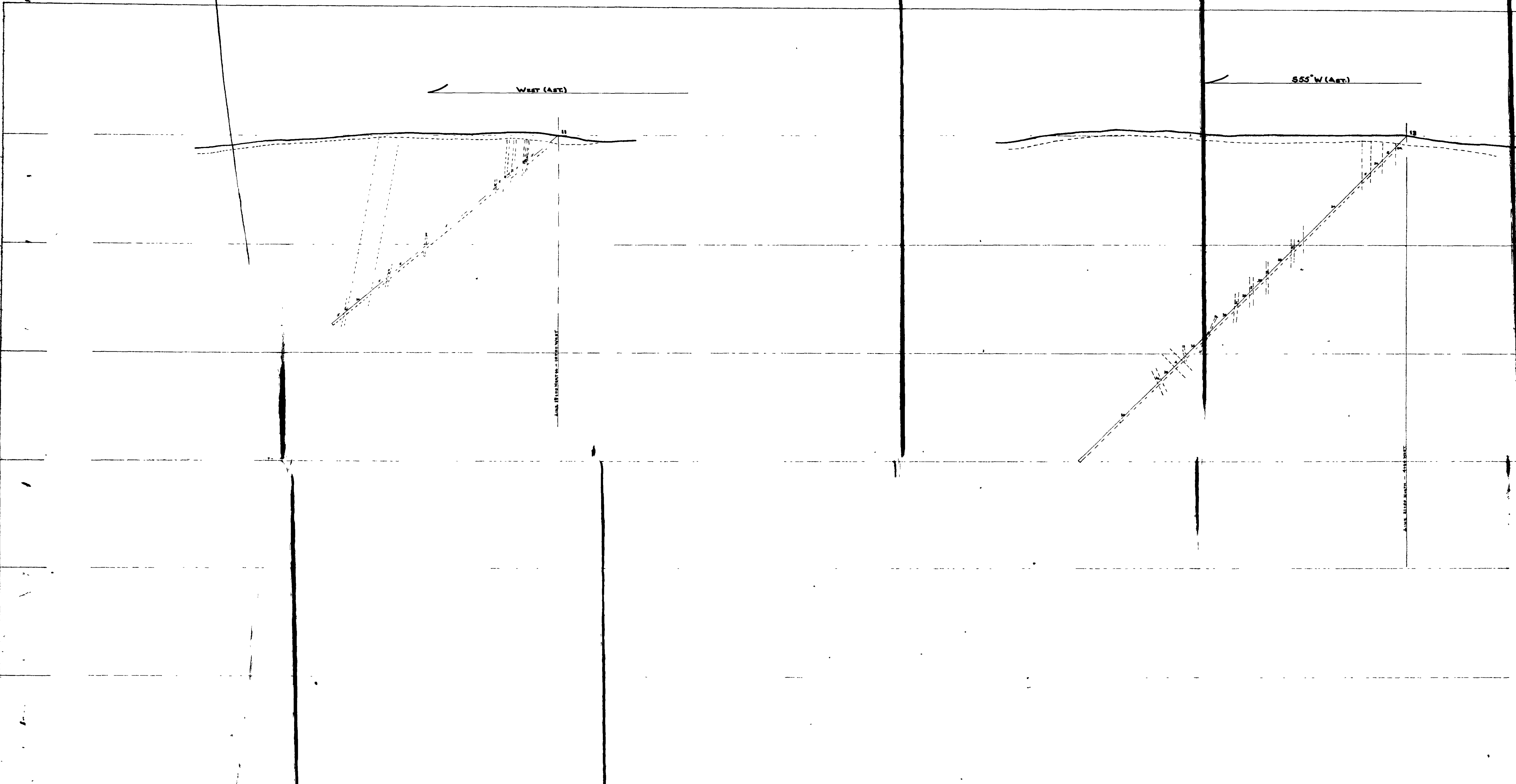
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CHYKA MINES LIMITED
LACKNER TOWNSHIP - ONTARIO

VERTICAL SECTION **DIAMOND DRILL HOLES 10**

Scale 1" = 40'





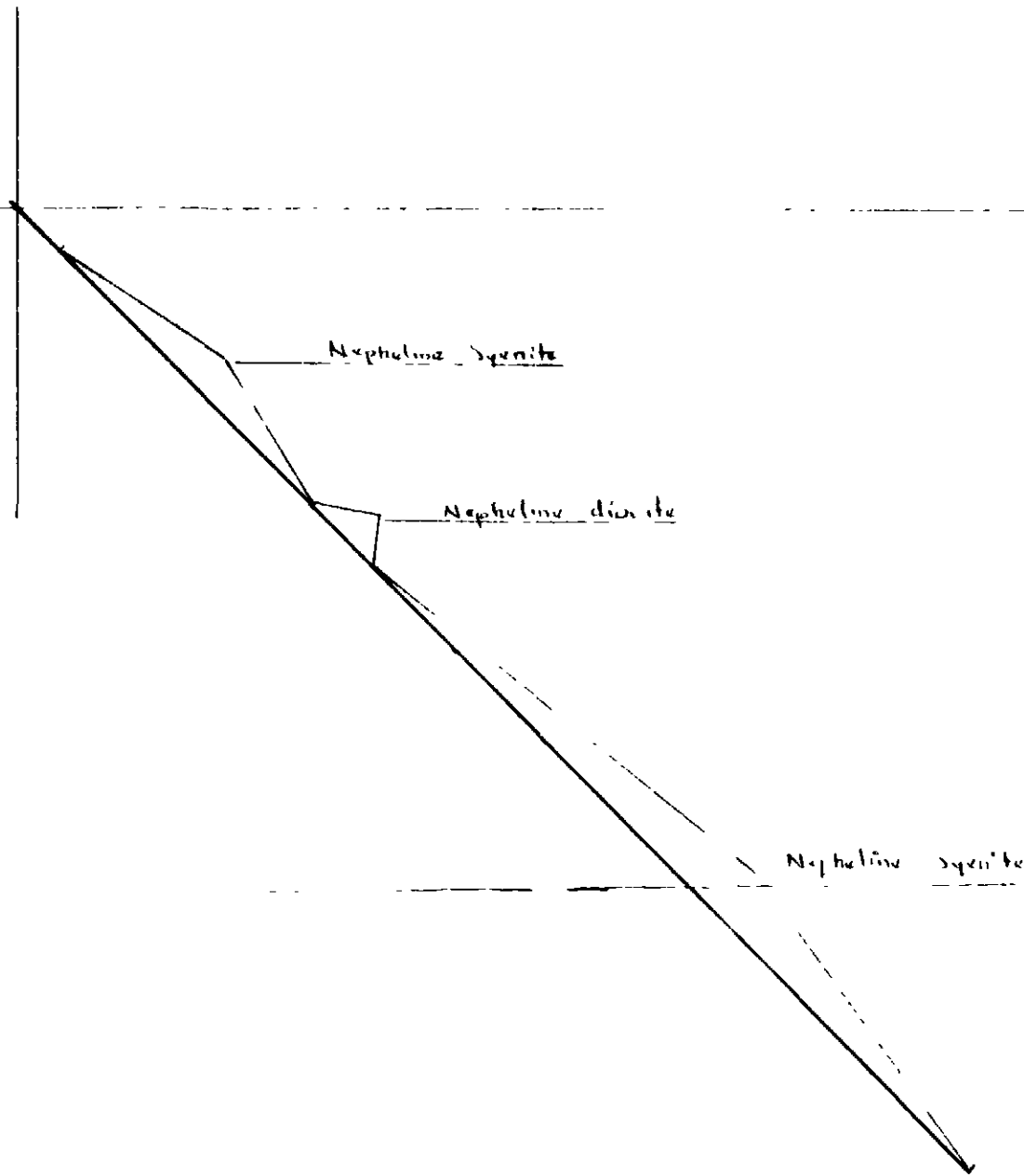
LEGEND

- 1 BASIC DIKE (S) LAMPROPHYRE DIKE (S)
- 2 NEPHELINE SYENITE
- 3 NEPHELINE DIORITE (S) NEPHELINE GABBRO (S) ALTERATION HALO
- 4 BIOTITE CARBONATE GNEISS
- 5 BIOTITE PYROXENE GNEISS
- 6 GREENSTONE
- 7 HORNBLENDE FELDSPAR GNEISS
- ++++ CRYSTALLINE MAGNETITE

CHYKA MINES LIMITED
 LACKNER TOWNSHIP - ONTARIO

VERTICAL SECTION DIAMOND DRILL HOLES 11, 12

Scale 1" = 40'



CHYKA MINES LIMITED

LACKNER TOWNSHIP - ONTARIO

VERTICAL SECTION

DIAMOND DRILL HOLE 12

Scale 1" = 40'



41014SE0015 10 LACKNER



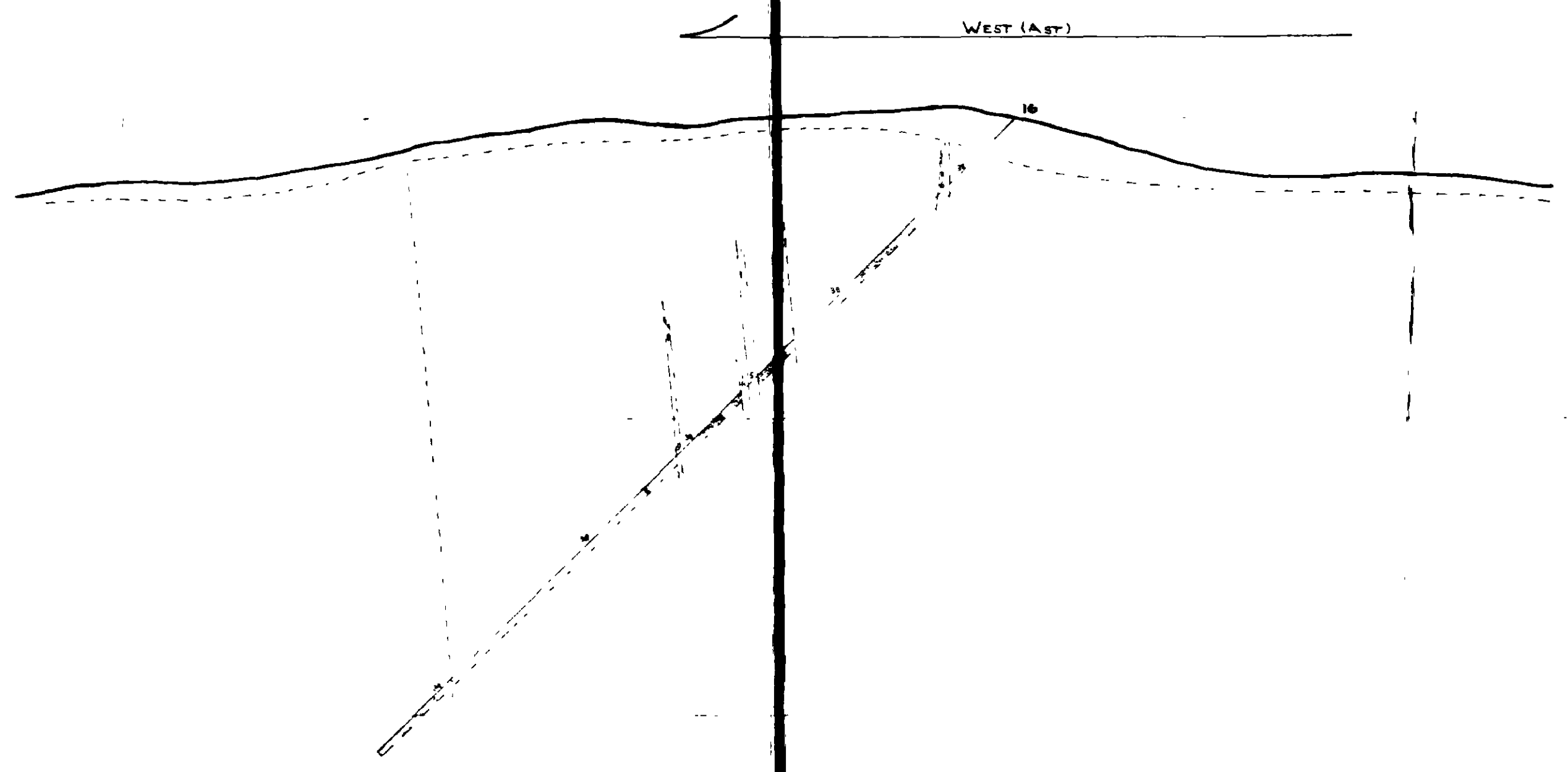
LEGEND

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CHYKA MINES LIMITED
 LACKNER TOWNSHIP - ONTARIO

VERTICAL SECTION DIAMOND DRILL HOLES 14, 15, 23

Scale 1" = 40'



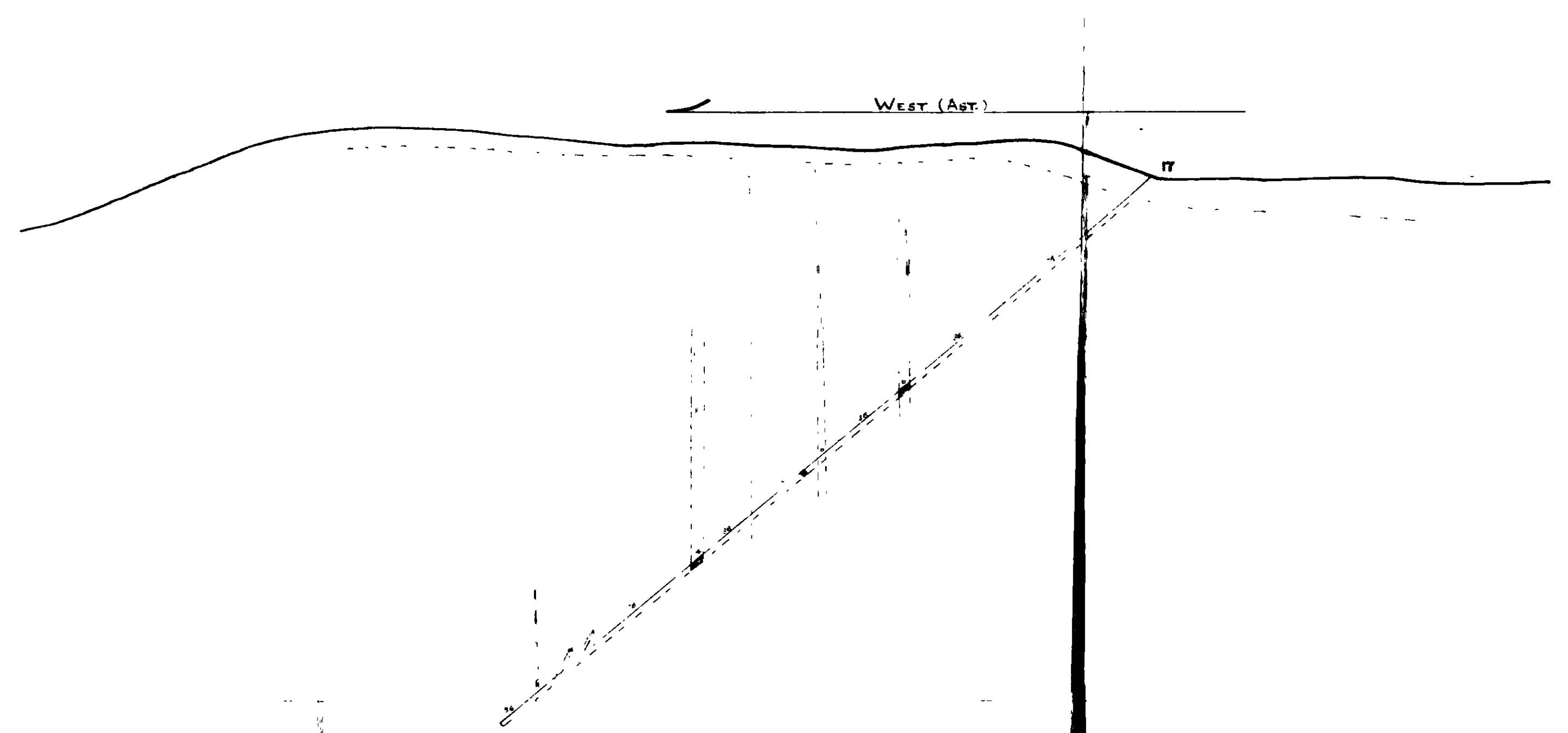
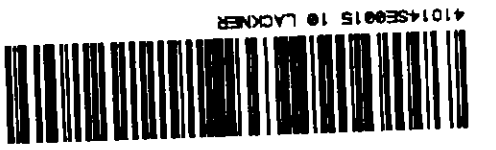
LEGEND

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CHYKA MINES LIMITED
 LACKNER TOWNSHIP - ONTARIO

VERTICAL SECTION DIAMOND DRILL HOLES 16

Scale 1" = 40'



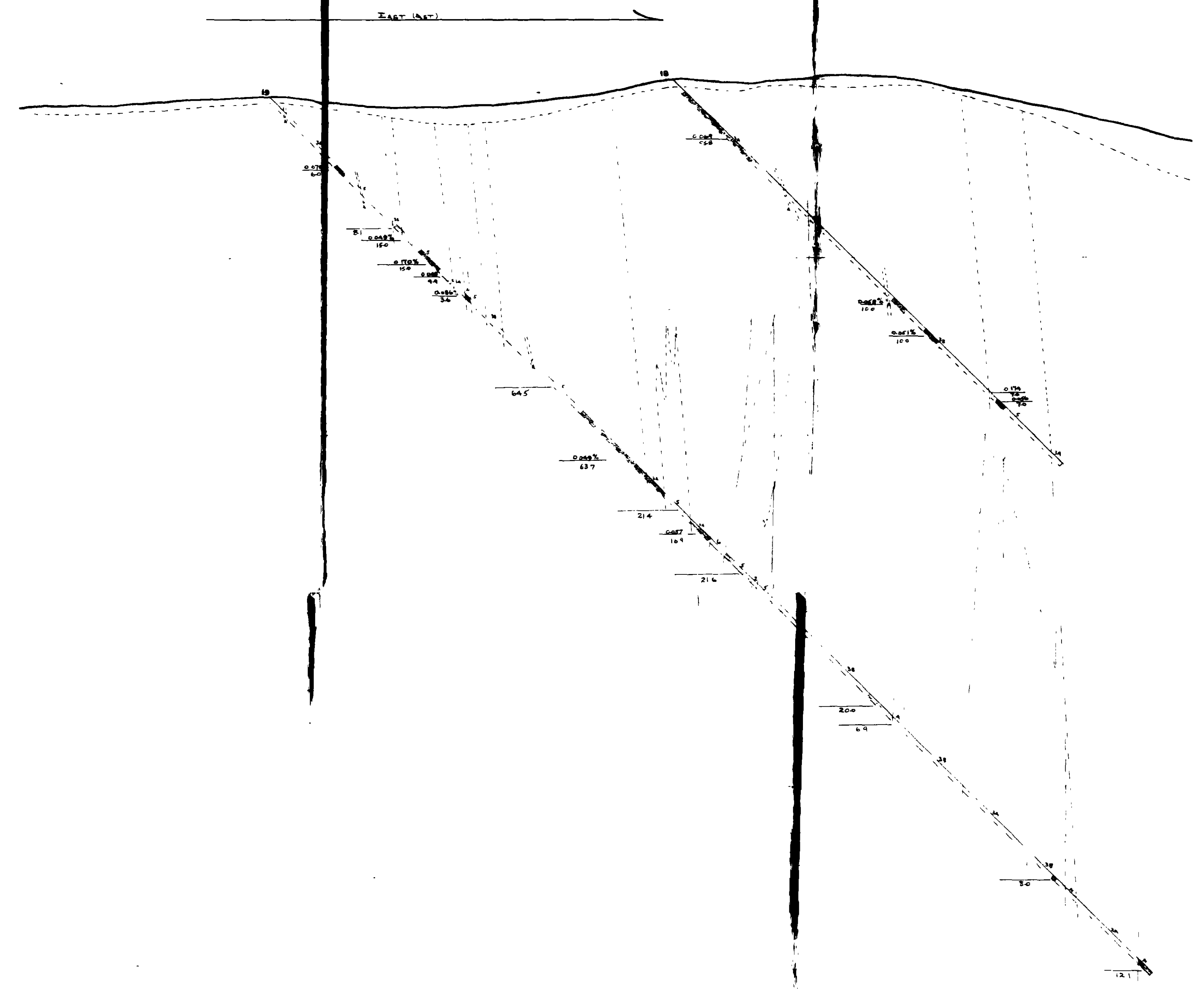
LEGEND

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CHYKA MINES LIMITED
 LACKNER TOWNSHIP - ONTARIO

VERTICAL SECTION DIAMOND DRILL HOLES IT

Scale 1" = 40'



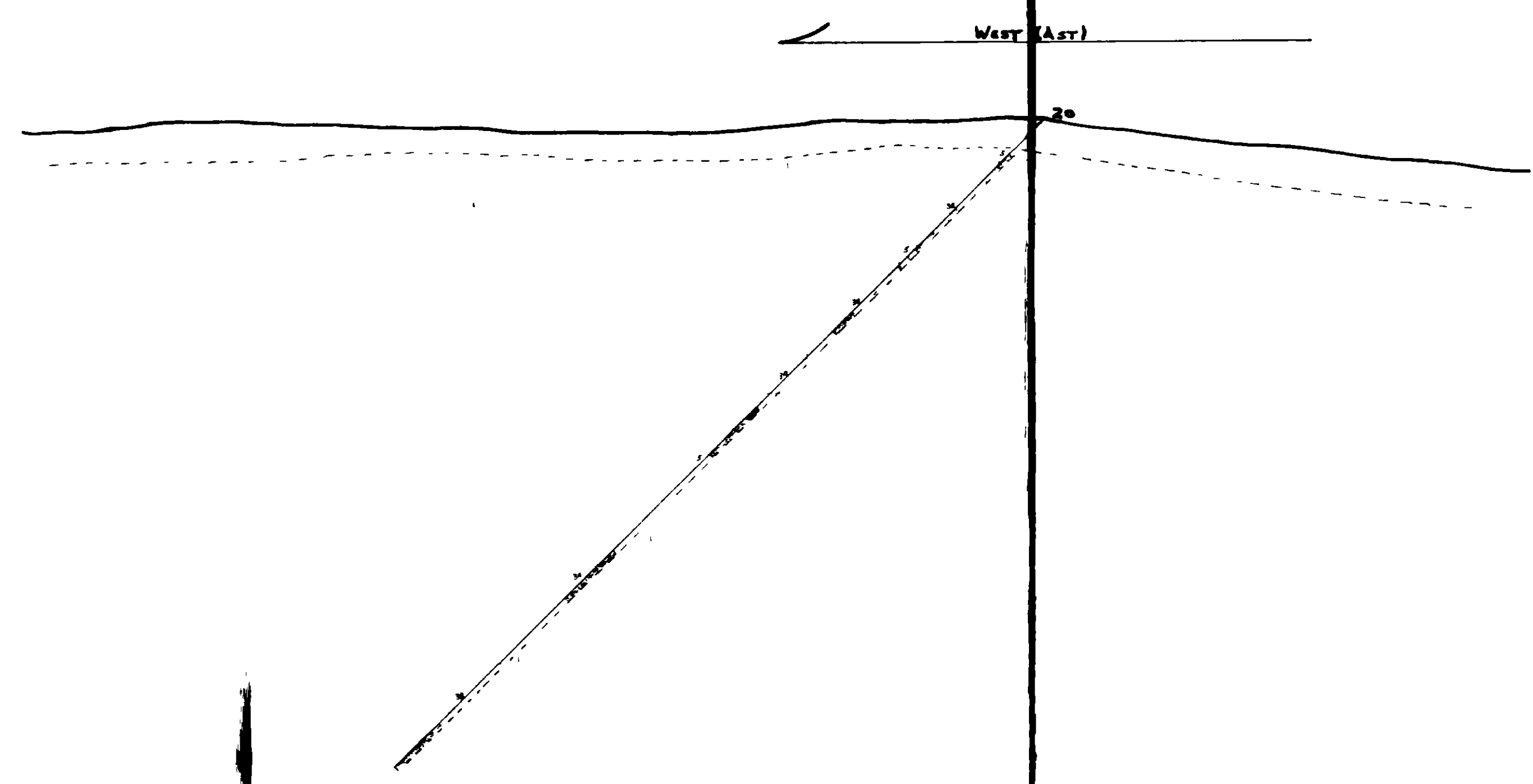
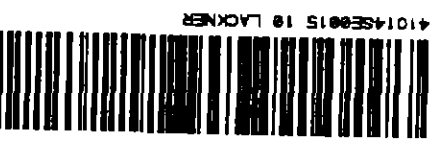
LEGEND

- 1 BASIC DILES (14), JAMPROYEE DICE (18)
- 2 NEPHELINE SYENITE
- 3 NEPHELINE DIOXIDE (2A) NEPHELINE GABRO (2B) NEPHELINE DIOXIDE GNEISS (3) - ALTERATION ROCKS
- 4 DIORITE CARBONATE GNEISS
- 5 DIORITE PYROXENE GNEISS
- 6 GREENSTONE
- 7 HORNBLENDE FELDSPAR GNEISS

CHYKA MINES LIMITED
 LACKNER TOWNSHIP - ONTARIO

VERTICAL SECTION DIAMOND DRILL HOLES 18,19.

Scale 1" = 40'



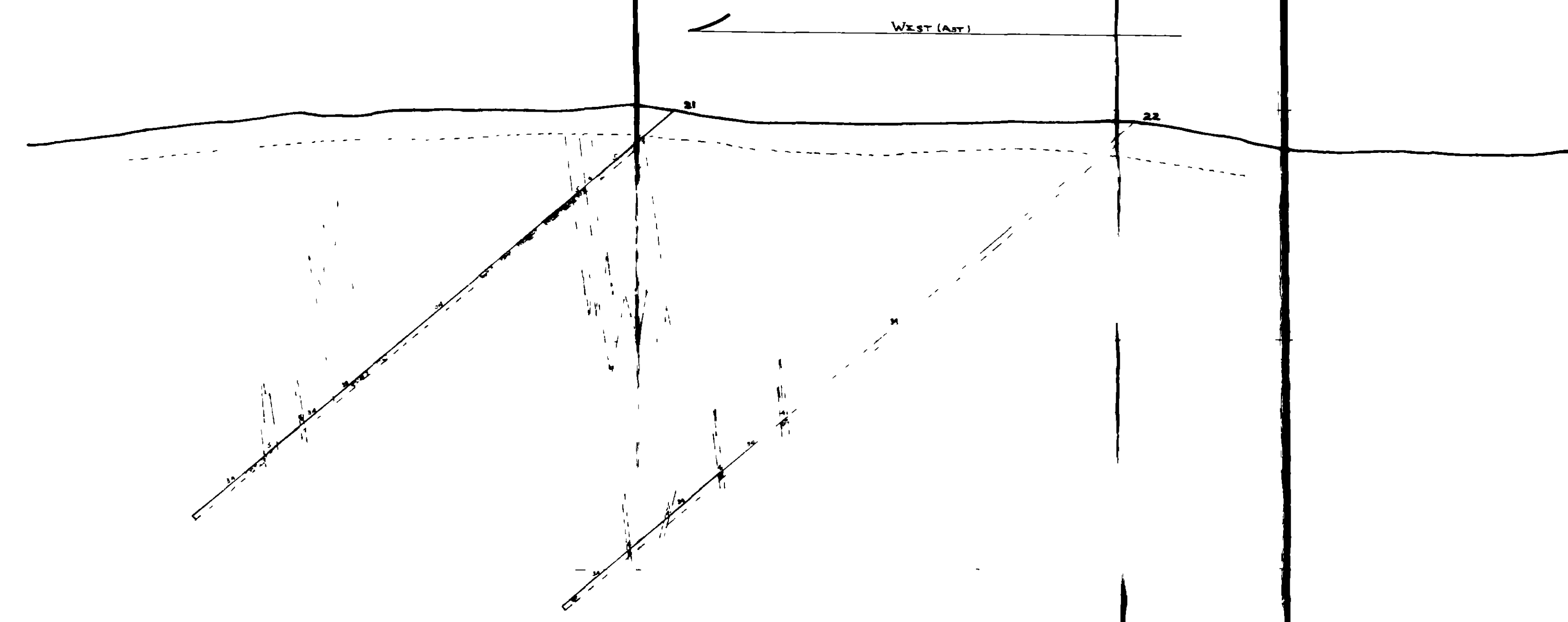
LEGEND

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CHYKA MINES LIMITED
LACKNER TOWNSHIP - ONTARIO

VERTICAL SECTION DIAMOND DRILL HOLES 20

Scale 1" = 40'



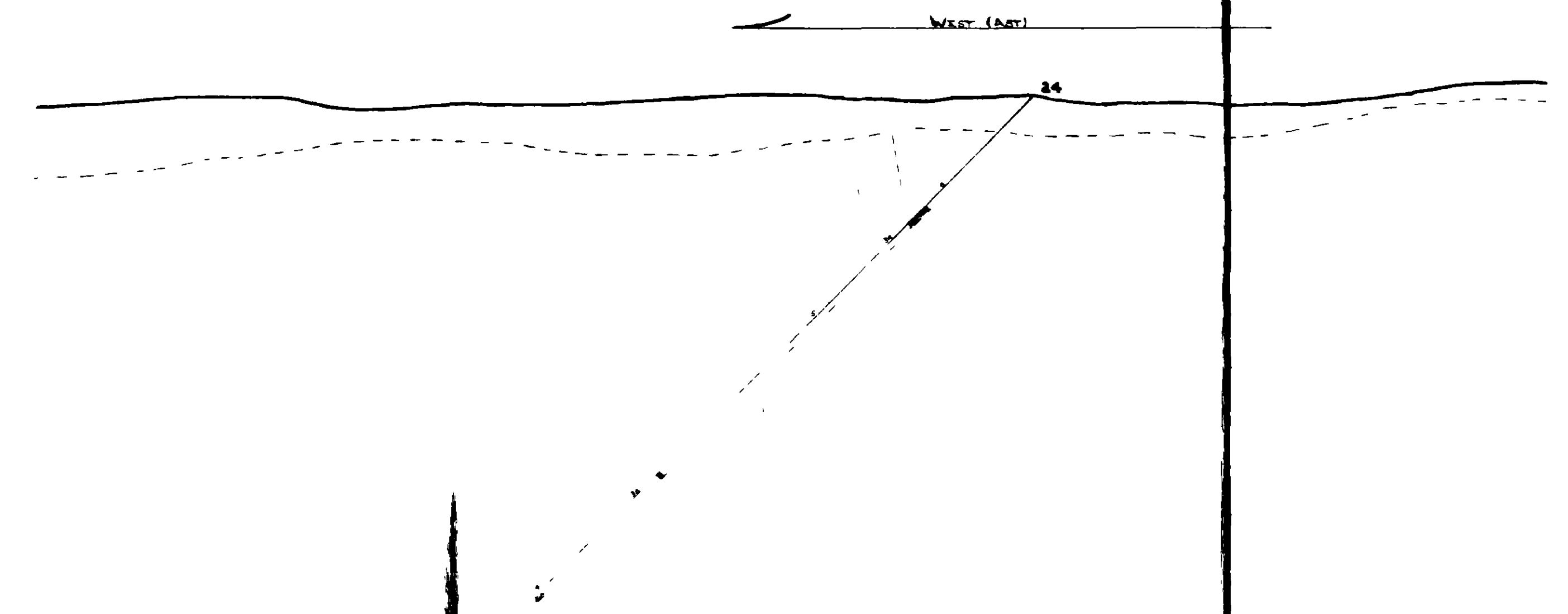
LEGEND

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CHYKA MINES LIMITED
 LACKNER TOWNSHIP - ONTARIO

VERTICAL SECTION DIAMOND DRILL HOLES 21,22

Scale 1" = 40'



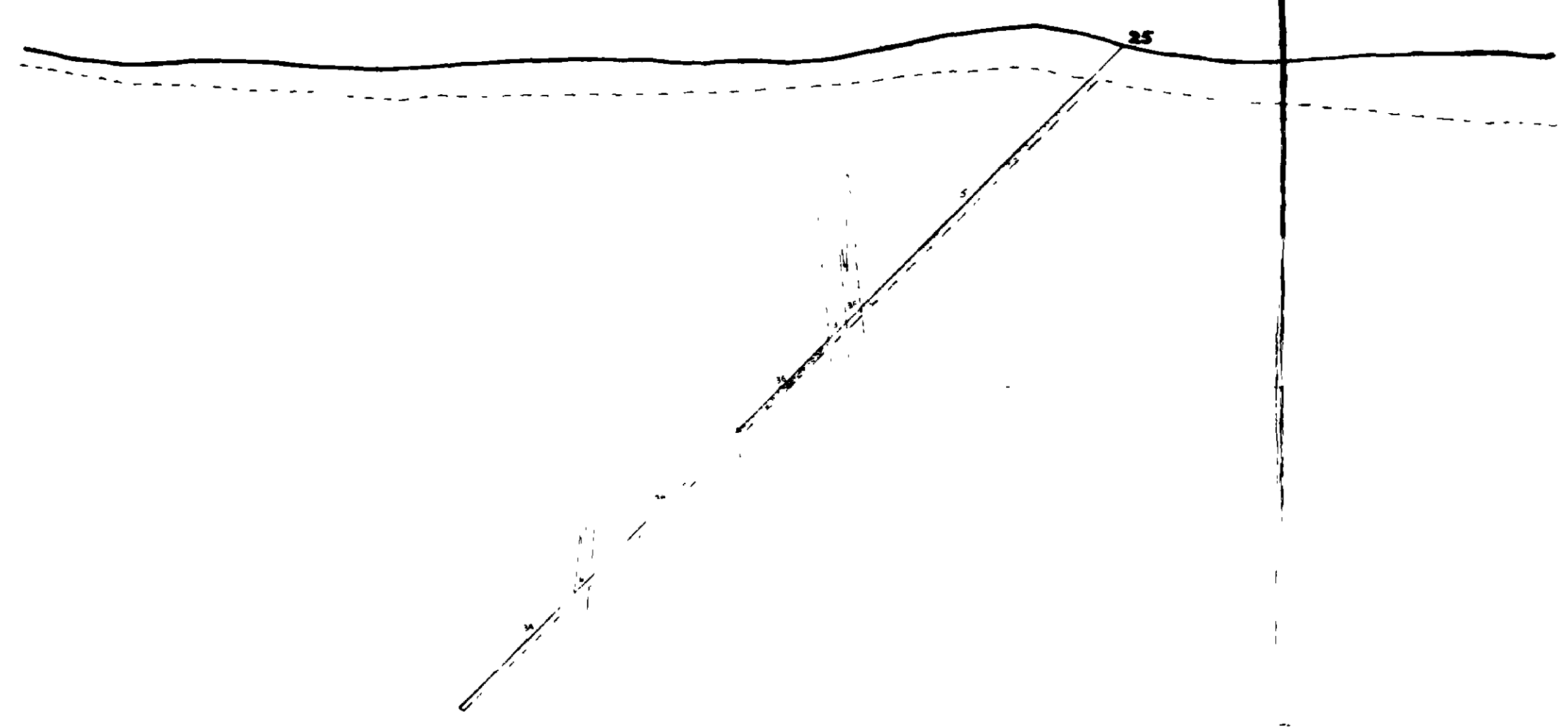
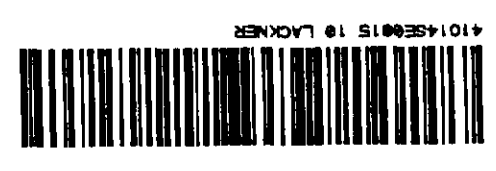
LEGEND

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CHYKA MINES LIMITED
 LACKNER TOWNSHIP - ONTARIO

VERTICAL SECTION DIAMOND DRILL HOLES 24

Scale 1" = 40'



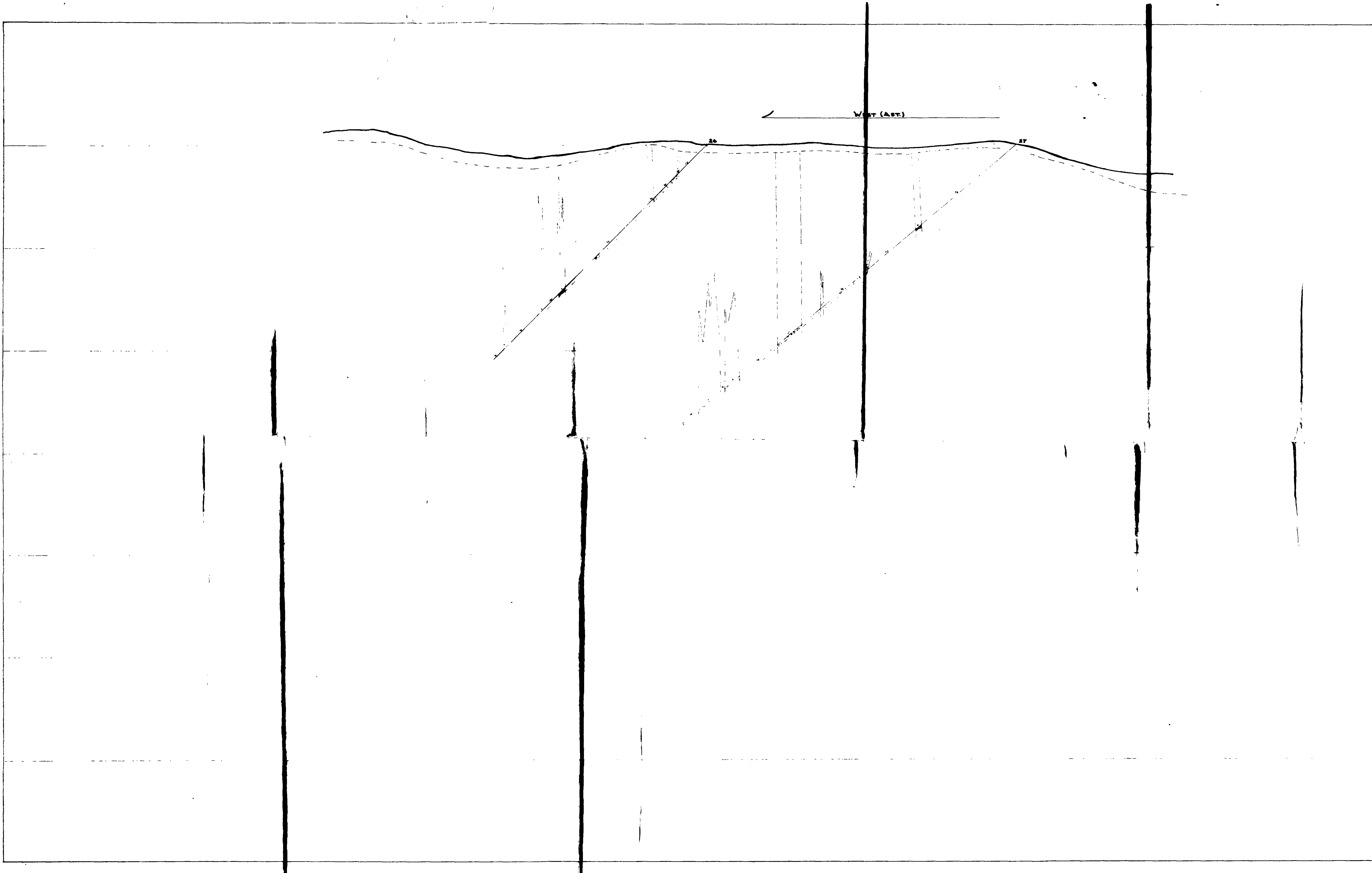
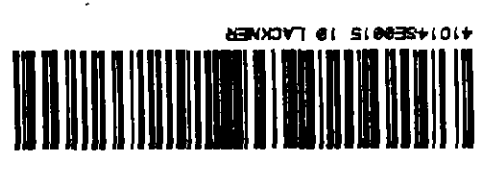
LEGEND

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CHYKA MINES LIMITED
LACKNER TOWNSHIP - ONTARIO

VERTICAL SECTION DIAMOND DRILL HOLES 25

Scale 1" = 40'



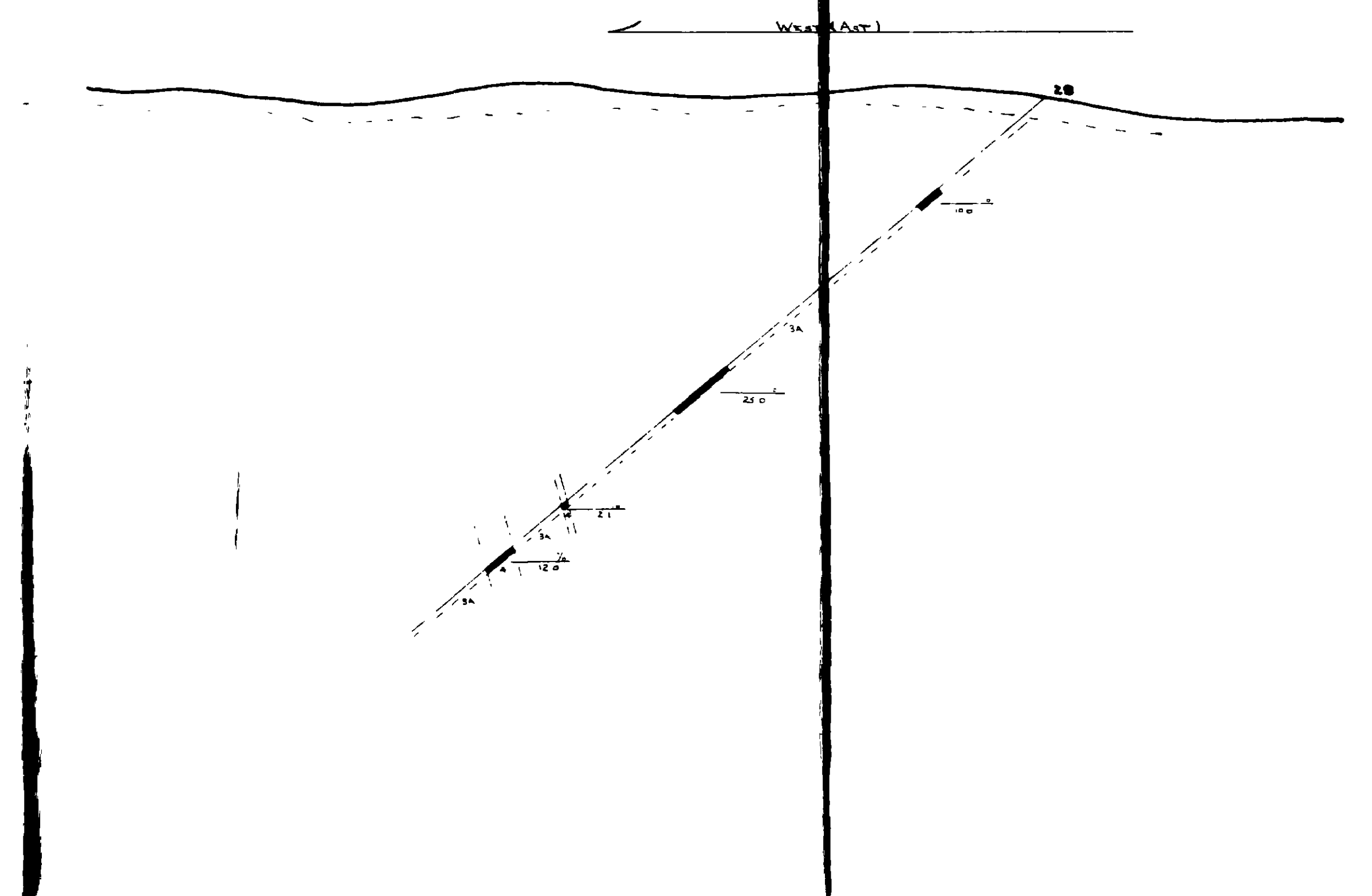
LEGEND

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CHYKA MINES LIMITED
 LACKNER TOWNSHIP - ONTARIO

VERTICAL SECTION DIAMOND DRILL HOLES 26, 27

Scale 1" = 40'



LEGEND

- 1 - BASIC DIKES (A), LAMPSONITE DIKES (B)
- 2 - NEPHELINE SYENITE
- 3 - NEPHELINE DIORITE (A), NEPHELINE GABBRO (B), NEPHELINE DIORITE GNEISS (C) - ANTECLINIC ROCKS
- 4 - BIOTITE CARBONATE GNEISS
- 5 - BIOTITE PYROXENE GNEISS
- 6 - GREENSTONE
- 7 - HORNBLANDA FELDSPAR GNEISS

CHYKA MINES LIMITED
 LACKNER TOWNSHIP - ONTARIO

VERTICAL SECTION DIAMOND DRILL HOLES 20

Scale 1" = 40'