

54-F-211C

WESTMINISTER#5



"Franki Piles carry more tons per Pile"

FRANKI

COMPRESSED PILE COMPANY OF CANADA LIMITED

1815 YONGE STREET

TORONTO 7, ONT.

Our Reference:

PC 319

September 28th, 1954.

CABLEGRAMS:
"FRANKIPILE"



TELEPHONE:
HUDSON 8-9009

SOIL INVESTIGATION REPORT for DEPARTMENT OF HIGHWAYS OF ONTARIO (A.M. Dillon, Consulting Engineer) at WESTMINSTER #5

As requested, we carried out a soil investigation on the proposed bridge site, Westminster #5, at the junction of Highway 401 and the relocated line of Pond Mills Road.

REPORT OF INVESTIGATION:

Six percussion tests were made at the locations shown on the location sketch. The results are shown on the accompanying diagrams and are summarized as follows.

SUMMARY

E L E V A T I O N S

Hole No.	Ground Surface	Water Level	2,000 lbs per sq.ft.	4,000 lbs per sq.ft.	Refusal
1	885	877	880	879	868
2	891	-	884	881	870
3	885	-	881	879	872
4	885	-	881	880	869
5	871	-	884	882	876
6	886	877	882	881	871

NOTE: - Holes #2 and #5 were on about six feet of fill.

Two auger borings were made with the following results.

LOG OF AUGER BORINGS

Hole #1

Ground Surface Elevation: 885

0' - 2'	Sandy Topsoil
2' - 6'	Very fine sand and silt
6' - 8'	Fine silty sand
8' - 10'	Stiff brown silty clay
10' - 11'	Saturated very fine sand and silt
11' - 16'	Brown silty clay
16' - 17'	Very fine silty sand, compact
17' - 18'	Very fine silty sand, compact

Hole #6

Ground Surface Elevation: 886

0' - 2'	Sandy Topsoil
2' - 6'	Brown silty clay
6' - 9'	Stiff brown silty clay
9' - 10'	Very stiff brown silty clay
10' - 12'	Saturated very fine sand and silt
12' - 13'	Saturated very fine sand and silt
13' - 14'6"	Brown silty clay
14'6" - 15'6"	Very fine silty sand, compact

DISCUSSION:

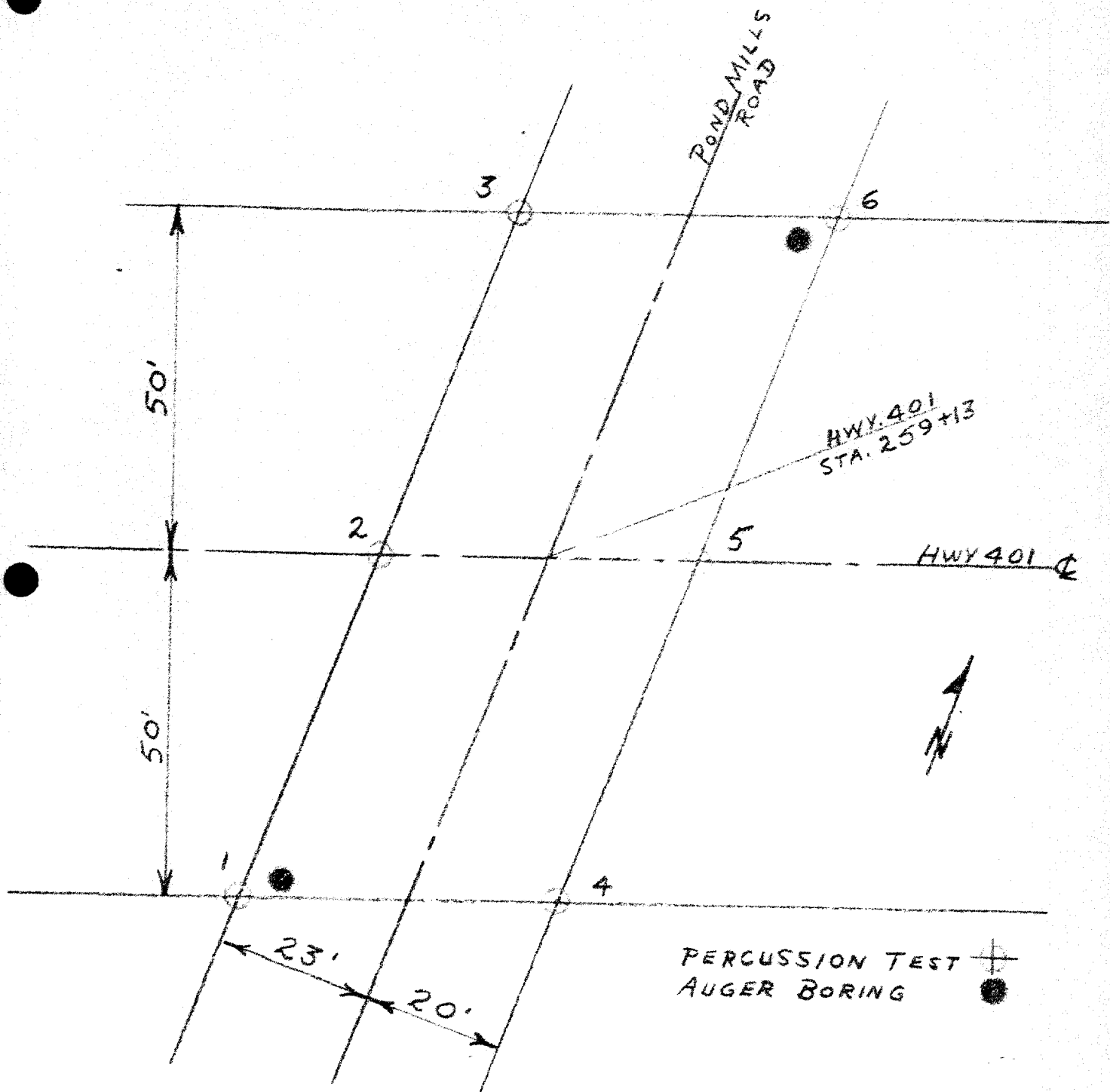
The log of auger borings show that a water bearing stratum of very fine sand and silt was encountered at about elevation 875. (The penetration test diagrams also show this stratum.) After several hours had elapsed, the water in the two auger holes rose to elevation 877.

A bearing capacity of 4,000 paf is found at elevations not less than 879.

CONCLUSION:

Footings could be based on soil of 4,000 paf bearing capacity two feet above the water level, at elevation 879.

W. H. T. Wilson
W. H. T. Wilson, P. Eng.



FRANK CONCRETE PIPE COMPANY OF CANADA, LIMITED

DEPARTMENT OF HIGHWAYS OF ONTARIO

WINDERMERE #5.

PC 319
September 27, 1954.

FRANKI

COMPRESSED PILE COMPANY
OF CANADA LIMITED

PERCUSSION TEST DIAGRAM

FOR: DEPARTMENT OF HIGHWAYS - ONTARIO

AT: WESTMINSTER #5

DATE: SEPTEMBER 22, 1974

JOB NO. PC 319

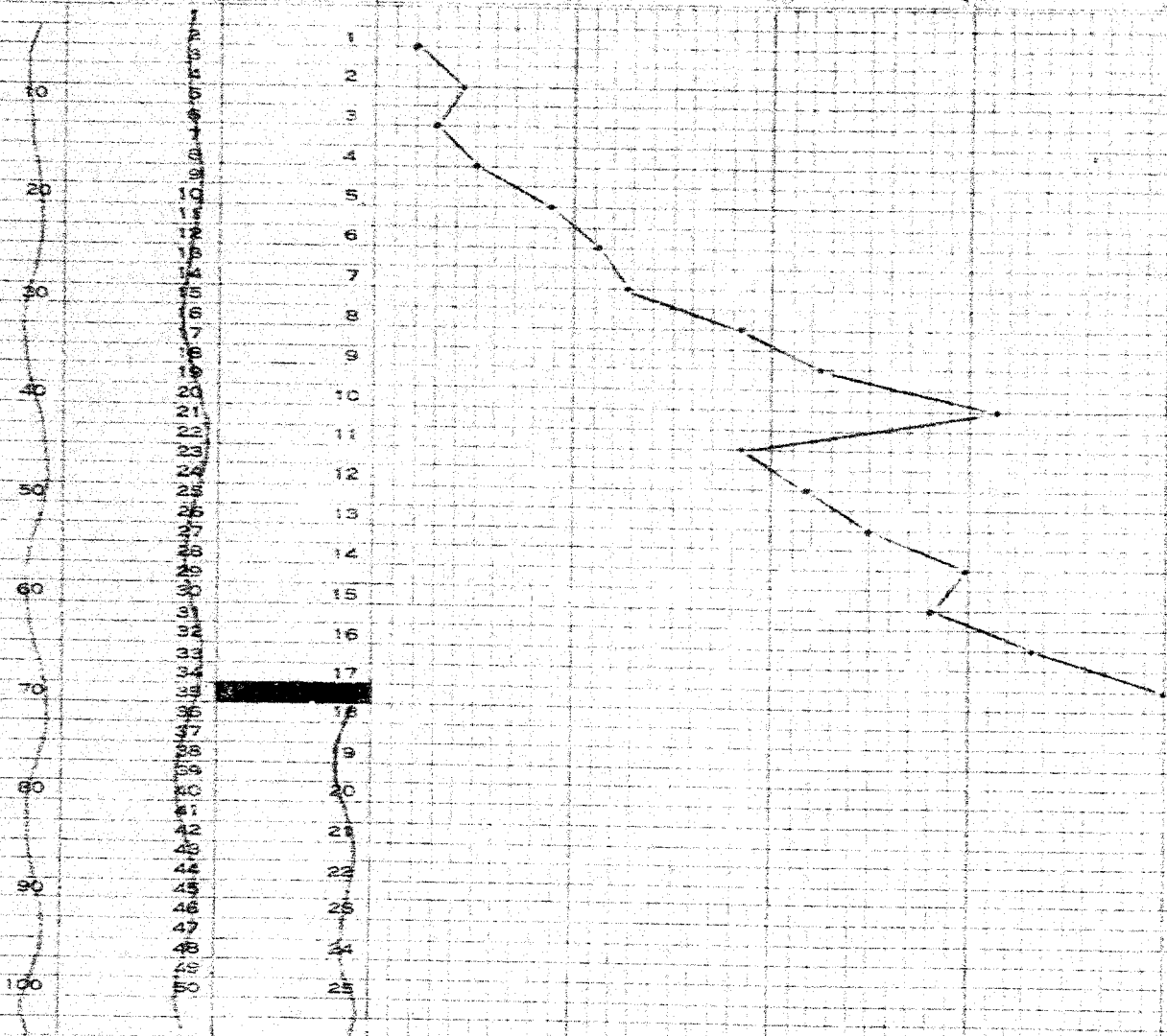
TEST NO.: 1

WEIGHT OF HAMMER 225#

DROP 3 FT.

DEPTH IN FEET

NUMBER OF BLOWS PER FOOT



Ground Surface Elevation 825
Refusal Elevation 868
Number of Blows 200 for 9"

SIGNED

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FRANKI

COMPRESSED PILE COMPANY
OF CANADA LIMITED

PERCUSSION TEST DIAGRAM

FOR: DEPARTMENT OF HIGHWAYS OF ONTARIO

AT: WESTMINSTER #5

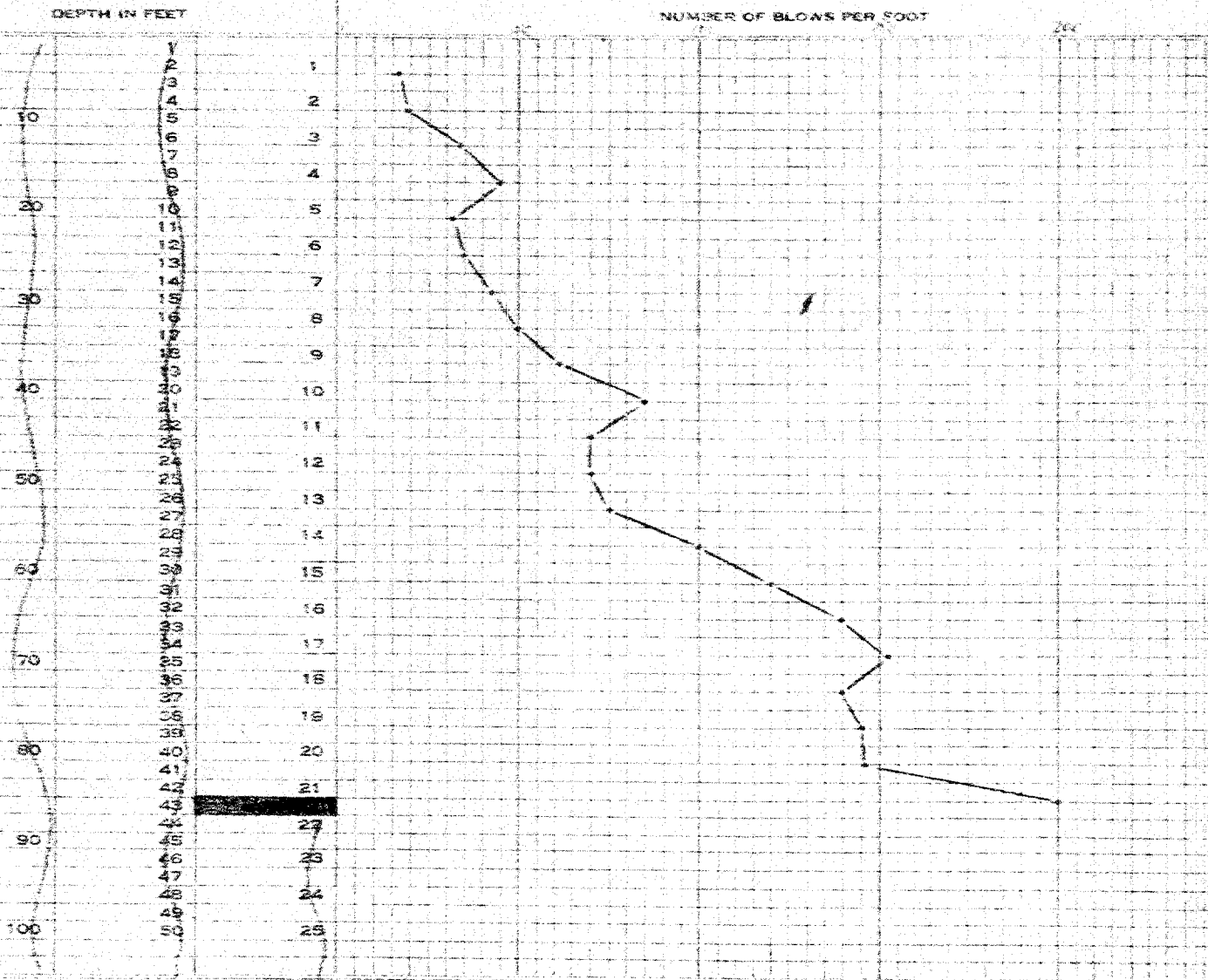
JOB NO. EC 319

DATE: SEPTEMBER 20, 1954.

TEST NO.: 2

WEIGHT OF HAMMER 3250

DROP 3 FT.



Ground Surface Elevation 801
Refusal Elevation 870
Number of Blows 200 for 9"

SIGNED

Donald J. Hough

FRANKI

COMPRESSED PILE COMPANY
OF CANADA LIMITED

PERCUSSION TEST DIAGRAM

FOR: DEPARTMENT OF HIGHWAYS OF ONTARIO

AT: WINDMILL #1

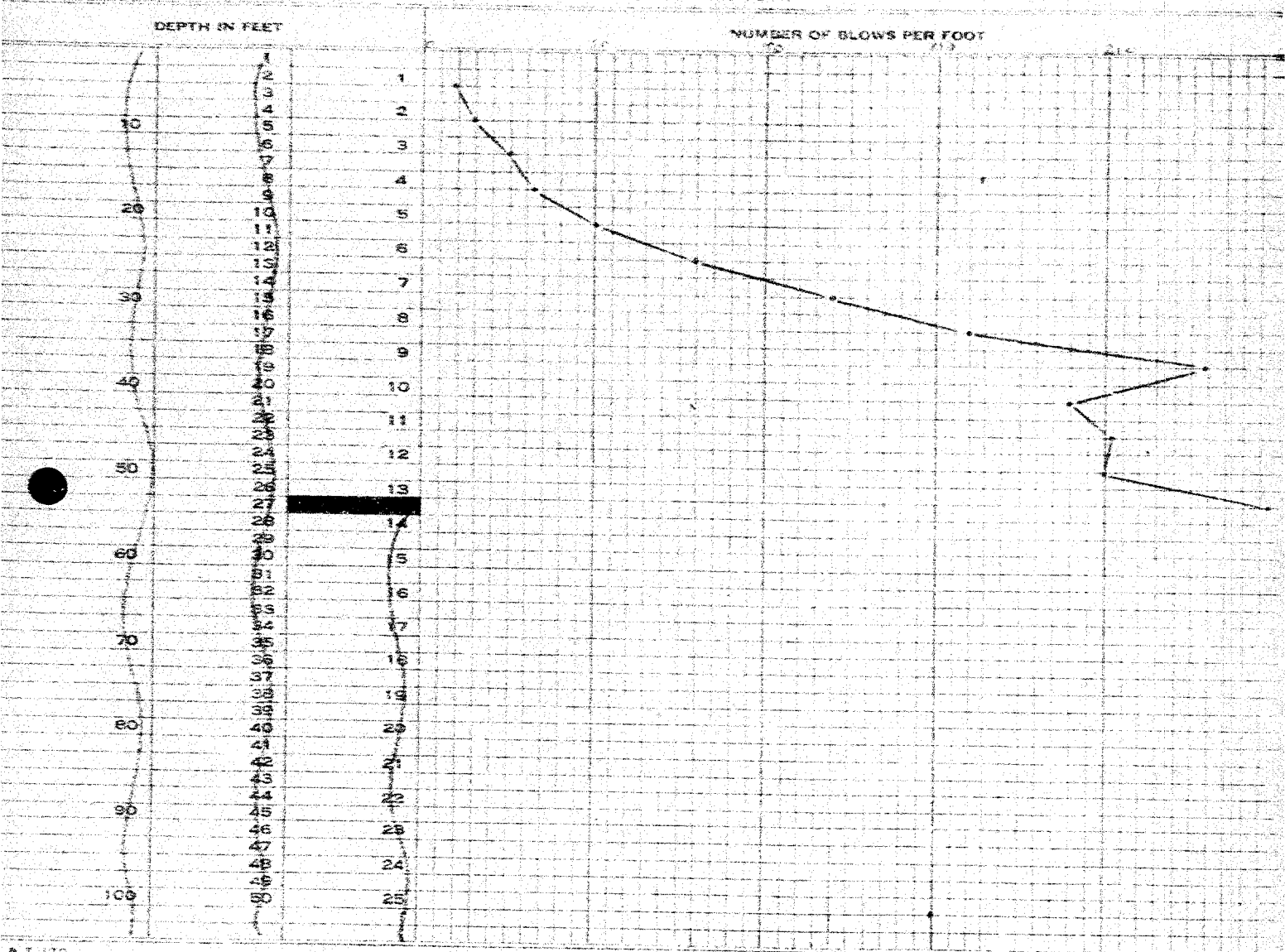
JOB NO. IC 219

DATE: SEPTEMBER 26, 1964.

TEST NO.: 2

WEIGHT OF HAMMER 225#

DROP 5 FT.



Ground Surface Elevation 885
Refusal Elevation 872
Number of Blows 248

SIGNED

Donald J. Blough

FRANKI

COMPRESSED PILE COMPANY
OF CANADA LIMITED

PERCUSSION TEST DIAGRAM

FOR: DEPARTMENT OF HIGHWAYS OF ONTARIO

AT: WESTMINSTER #5

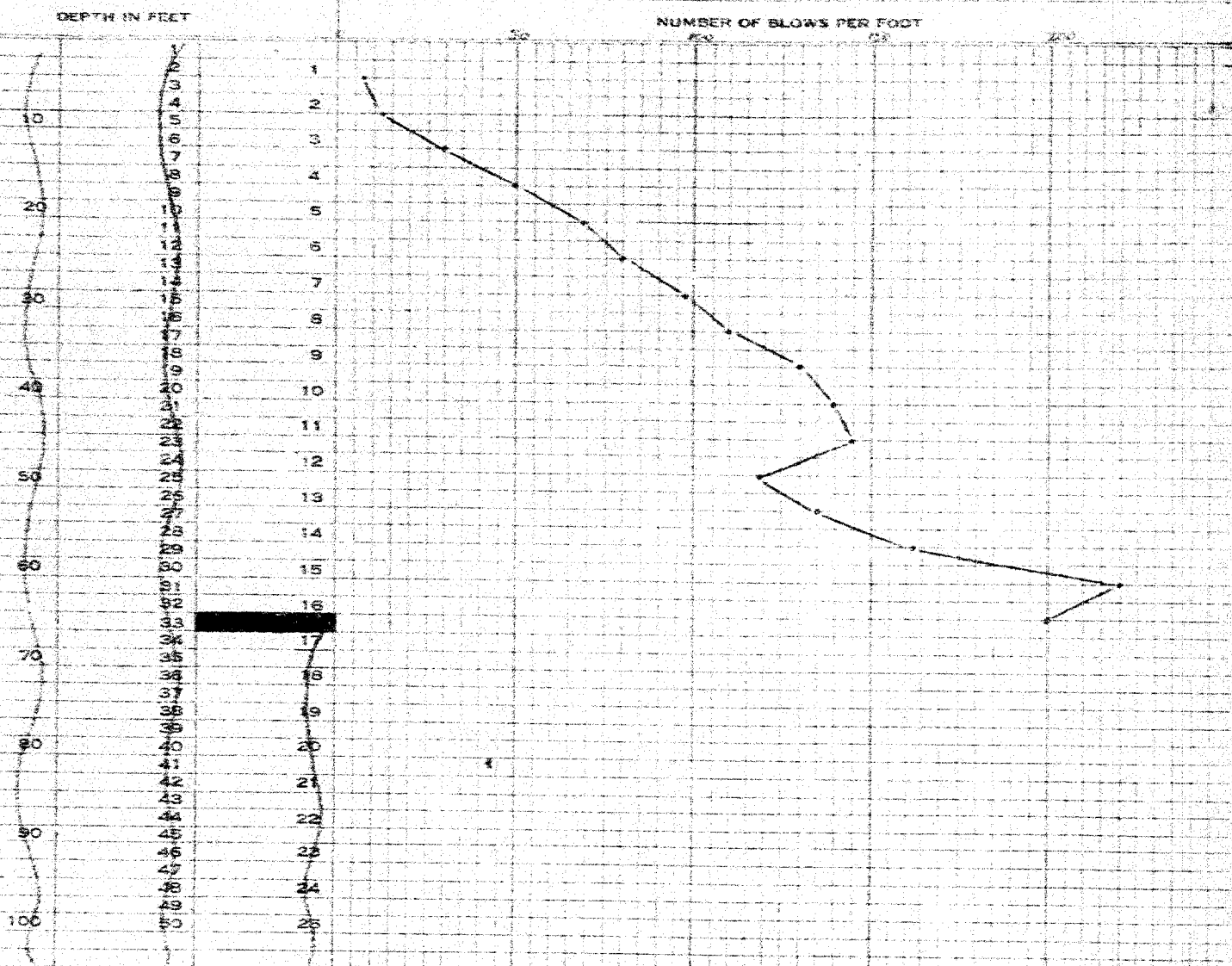
JOB NO. PC 319

DATE: SEPTEMBER 22, 1954.

TEST NO.: 4

WEIGHT OF HAMMER 225#

DROP: 3 FT.



Ground Surface Elevation 885
Refusal Elevation 869
Number of Blows 200 for 9"

SIGNED

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COMPRESSED PILE COMPANY
OF CANADA LIMITED

PERCUSSION TEST DIAGRAM

FOR: DEPARTMENT OF HIGHWAYS OF ONTARIO

AT: WESTMINSTER #5

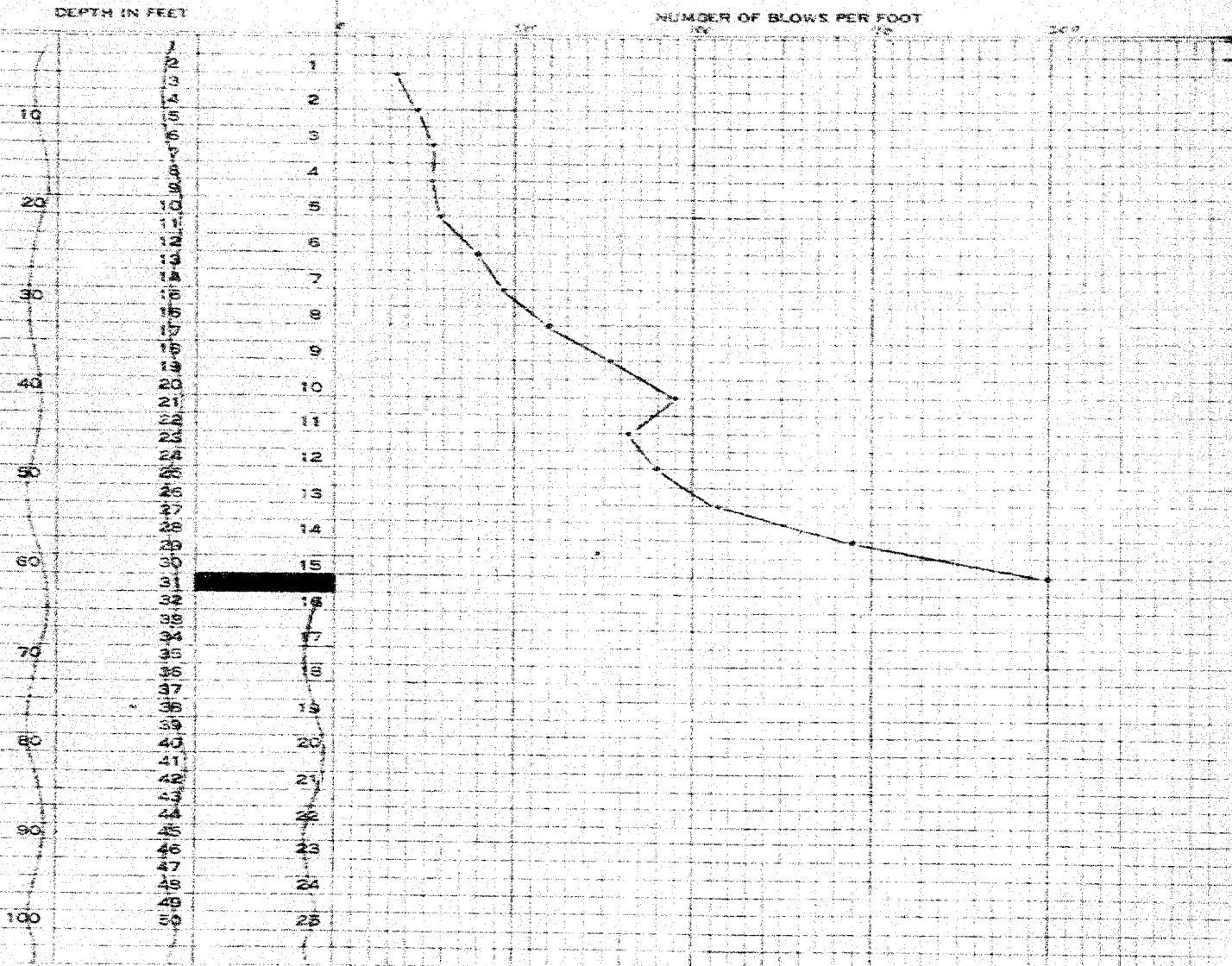
JOB NO. PC 119

DATE: SEPTEMBER 20, 1954.

TEST NO. 5

WEIGHT OF HAMMER 225

DROP 3 FT.



Ground Surface Elevation 881
Refusal Elevation 876
Number of Blows 200 for 8"

SIGNED

[Handwritten Signature]

FRANKI

COMPRESSED PILE COMPANY
OF CANADA LIMITED

PERCUSSION TEST DIAGRAM

FOR: DEPARTMENT OF HIGHWAYS OF ONTARIO

AT: WESTMINSTER #1

JOB NO. PC 319

DATE: SEPTEMBER 24, 1954.

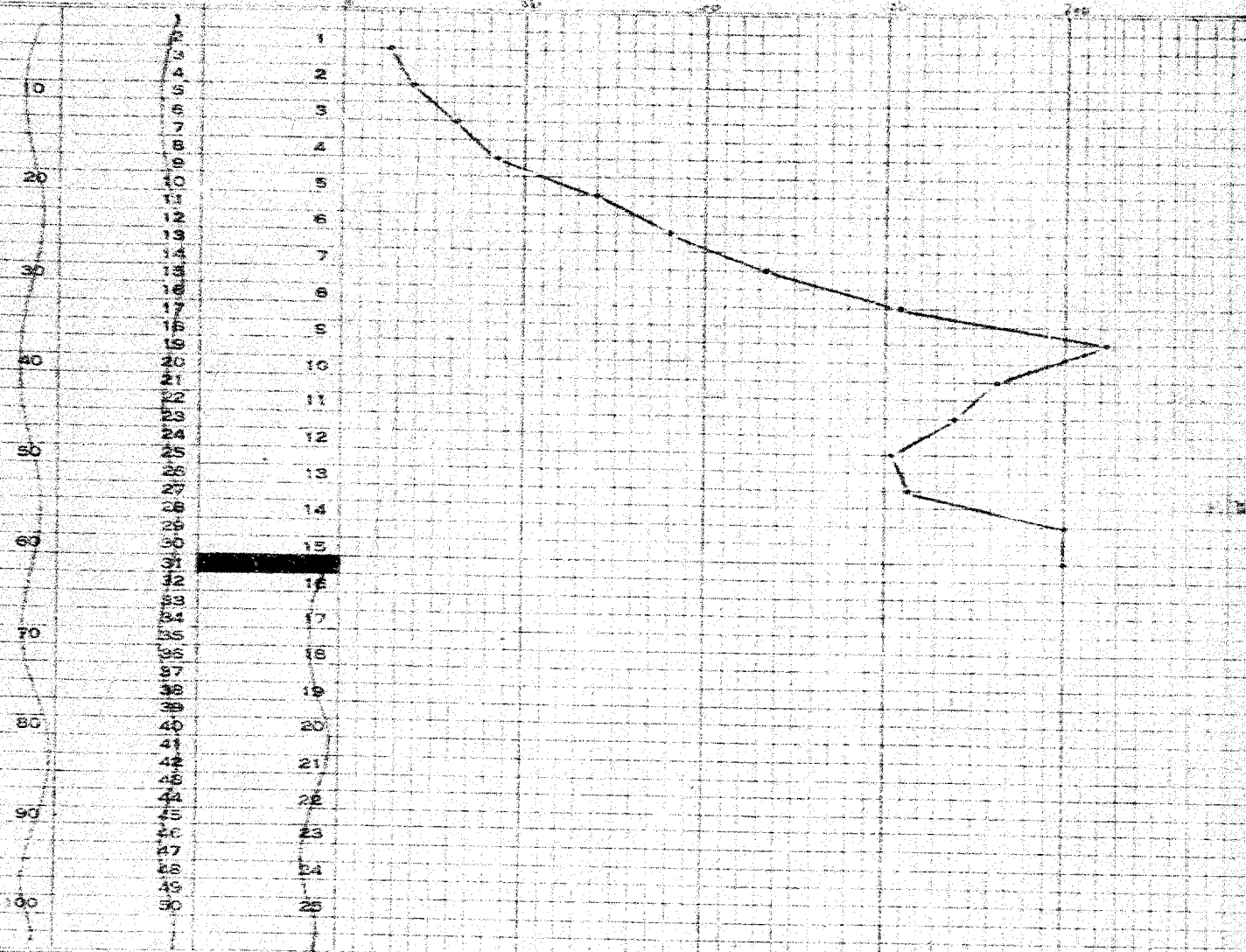
TEST NO.: 6

WEIGHT OF HAMMER 225

DROP 3 FT.

DEPTH IN FEET

NUMBER OF BLOWS PER FOOT

Ground Surface Elevation 586
Refusal Elevation 571
Number of Blows 200 for 5'

SIGNED

Donald J. G. Giff