



DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
RESOURCES DIVISION

Report on Abandonment of Structure Test Holes

Duplicate copies of this form to be forwarded to the Oil Conservation Engineer, Calgary, Alberta

In compliance with the "Canada Oil and Gas Land Regulations", the undersigned hereby reports the abandonment of structure test holes drilled under the authority of Exploratory Licence No. Oil & Gas Permit 1616; Lease 1625
Company reporting Richfield Oil Corporation
Address 320 - 7th Avenue S. W., Calgary, Alberta.

HOLES ABANDONED:

1. (1) Name, Number and Location Richfield Oil Corporation et al Grandview Hills Core Hole #1
67°-13'40" N. Lat., 130°51'16" W. Long
(2) Casing used 5 1/2" 14# J-55, ST&C cemented at 145'
(3) T.D. of hole 1203' Drilled by Western Geophysical
(4) Remarks on formations or fluids encountered None
(5) How plugged 1203 - 1175 with 10 sacks const. cement, 160 - 135 with 10 sacks
const. cement, welded cap on top of casing.
(6) Electrologged by Widco Electric Log Date Abandoned April 11, 1961
2. (1) Name, Number and Location
(2) Casing used
(3) T.D. of hole Drilled by
(4) Remarks on formations or fluids encountered
(5) How plugged
(6) Electrologged by Date Abandoned
3. (1) Name, Number and Location
(2) Casing used
(3) T.D. of hole Drilled by
(4) Remarks on formations or fluids encountered
(5) How plugged
(6) Electrologged by Date Abandoned
4. (1) Name, Number and Location
(2) Casing used
(3) T.D. of hole Drilled by
(4) Remarks on formations or fluids encountered
(5) How plugged
(6) Electrologged by Date Abandoned

- (2) Casing used
(3) T.D. of hole Drilled by
(4) Remarks on formations or fluids encountered
(5) How plugged
(6) Electrologged by Date Abandoned
6. (1) Name, Number and Location
(2) Casing used
(3) T.D. of hole Drilled by
(4) Remarks on formations or fluids encountered
(5) How plugged
(6) Electrologged by Date Abandoned
7. (1) Name, Number and Location
(2) Casing used
(3) T.D. of hole Drilled by
(4) Remarks on formations or fluids encountered
(5) How plugged
(6) Electrologged by Date Abandoned
8. (1) Name, Number and Location
(2) Casing used
(3) T.D. of hole Drilled by
(4) Remarks on formations or fluids encountered
(5) How plugged
(6) Electrologged by Date Abandoned
9. (1) Name, Number and Location
(2) Casing used
(3) T.D. of hole Drilled by
(4) Remarks on formations or fluids encountered
(5) How plugged
(6) Electrologged by Date Abandoned
10. (1) Name, Number and Location
(2) Casing used
(3) T.D. of hole Drilled by
(4) Remarks on formations or fluids encountered
(5) How plugged
(6) Electrologged by Date Abandoned
- Dated at Calgary, Alberta this 29th day of August, 1961

Signed by

R. M. Davidson
R. M. Davidson,

Title

Development Engineer.

(Licencee or duly authorized officer or agent of licencee)

FORM "A"

C A N A D A

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES

NORTHERN ADMINISTRATION BRANCH

RESOURCES DIVISION



NOTICE OF INTENTION TO BEGIN DRILLING OPERATIONS

or

TO CARRY OUT A STRUCTURE TEST PROGRAM

57 (1)

Canada

xxx

xxxxxxxxxxxxxxxx

In accordance with Section 58 of the Territorial Oil and Gas Regulations, notice is hereby given of our intention to begin drilling a well on Oil and Gas Permit No. 1615 registered in the name of Lease No.

Richfield Oil Corp et al

TYPE OF WELL:

Wildcat

Development

Expected total depth feet, in the formation of age.

The well will be located at N. Lat. W. Long.

..... (N. of S. boundary) (Permit No.)
..... (S. of N. boundary) of (Lease No.)
..... (W. of E. boundary) of (Permit No.)
..... (E. of W. boundary) (Lease No.)

Survey description of Location, if known

Approximate surface elevation of feet above sea level.

Name of well

Type of drilling rig

Expected date of commencement

We propose to use the following strings of casing, cementing them as indicated below:

Size O.D. Inches	Weight lbs/ft	Grade	Brand	New or Used	Estimated Depth	Sacks of Cement
1.						
2.						
3.						

Expected depth of water, gas and oil horizons and method of control:

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

An electric log ^{will} be run ^{will} Other logs be run
^{will not} ^{will not}

STRUCTURE TEST PROGRAM

Proposed number of holes 2 Maximum well depth . . . 1200' . . .
enclosed within an area bounded by
67° 10' 0", 67-20' 0" N. Latitudes 150' 5 1/2" casing will be cemented
130° 30' 0", 131° 00' 0" W. Longitudes to surface and equipped with blow
out preventor

An electric log ^{will} be run ^{will} Other logs be run
~~will not~~ ^{will not}
Name and address of drilling contractor . Western Geophysical Company of Canada Ltd.
828 4th Avenue S.W.
CALGARY, Alberta

Responsible agents of permittee or lessee in charge of operation:

At well . . . D. Wark Postal address . Norman Wells, N.W.T.

At registered office . . . R. R. Ritter Postal address . 320 7th Avenue S.W., Calgary

It is understood that if changes in this Notice of Intention become necessary we will promptly notify you.

Dated at Calgary . . this . . 17th day of . . March . . . 19 . 61 . .

Signed by *[Signature]*

This program is approved subject to the following provisions (if any):

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

21th March 1961
Date

[Signature]
Oil Conservation Engineer.

(To be submitted in triplicate to the Oil Conservation Engineer at least 15 days prior to the commencement of drilling)

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RICHFIELD OIL CORPORATION
GRANDVIEW HILLS CORE HOLE NO. 1

LOCATION: OPPOSITE SHOT POINT 478
67° 13' 40" N. Lat.
130° 51' 16" W. Long.

ELEVATION: 678' GROUND LEVEL

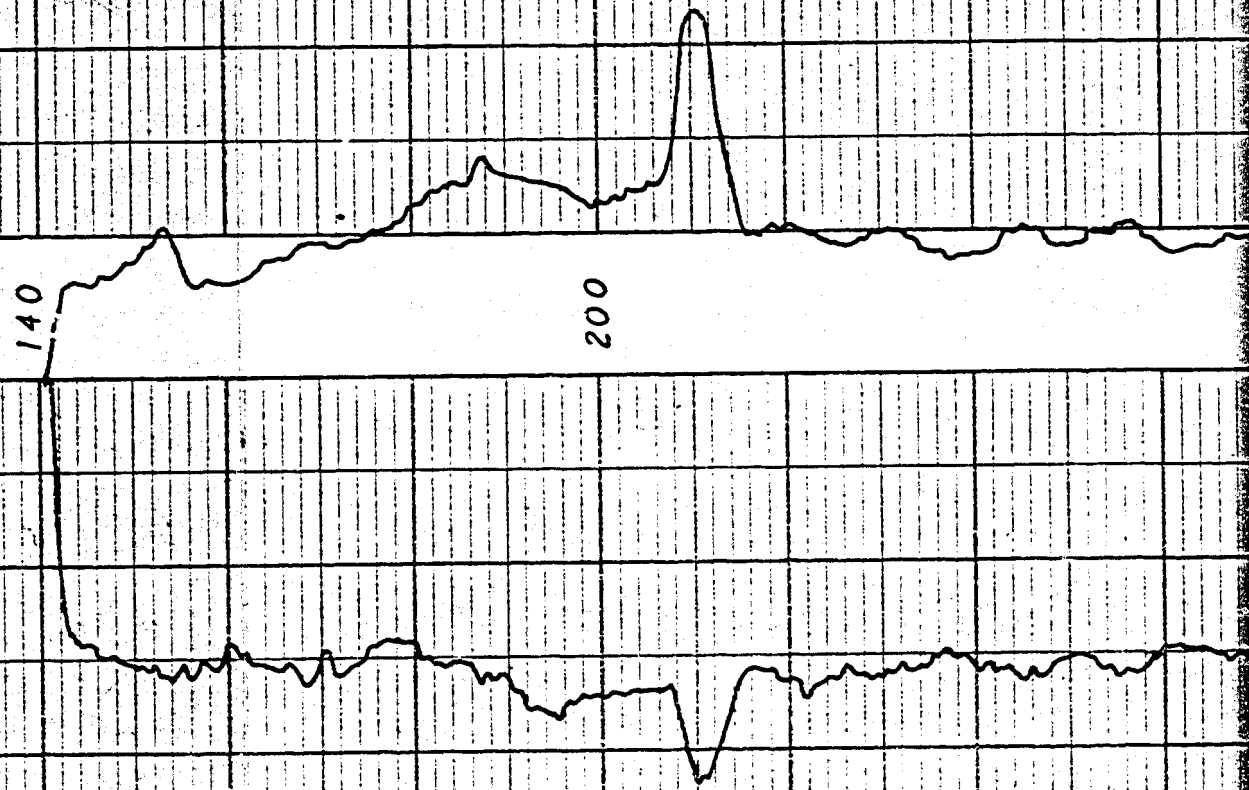
TOTAL DEPTH: 1194'

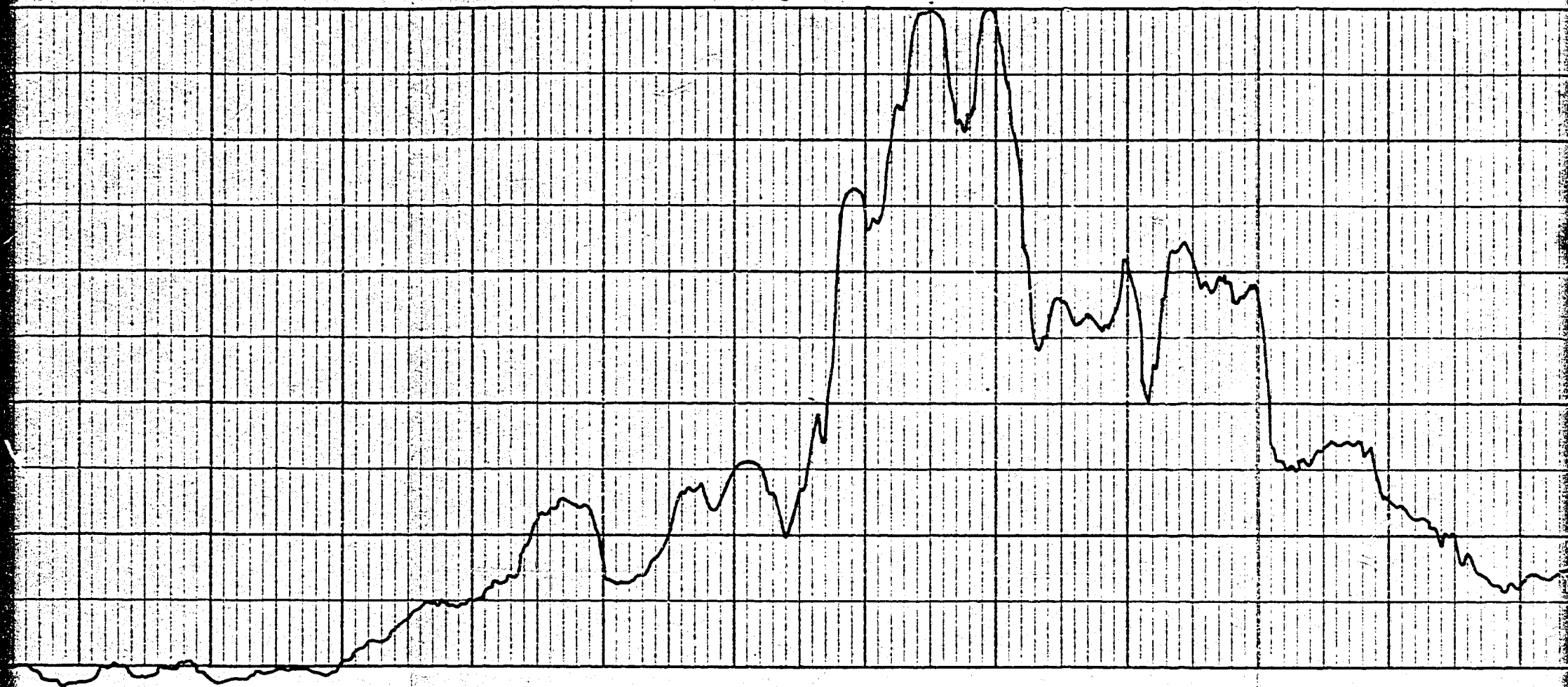
LOG RUN: APRIL 10, 1961.

POTENTIAL MILLIVOLTS

20 MILLIVOLTS PER INCH DEFLECTION

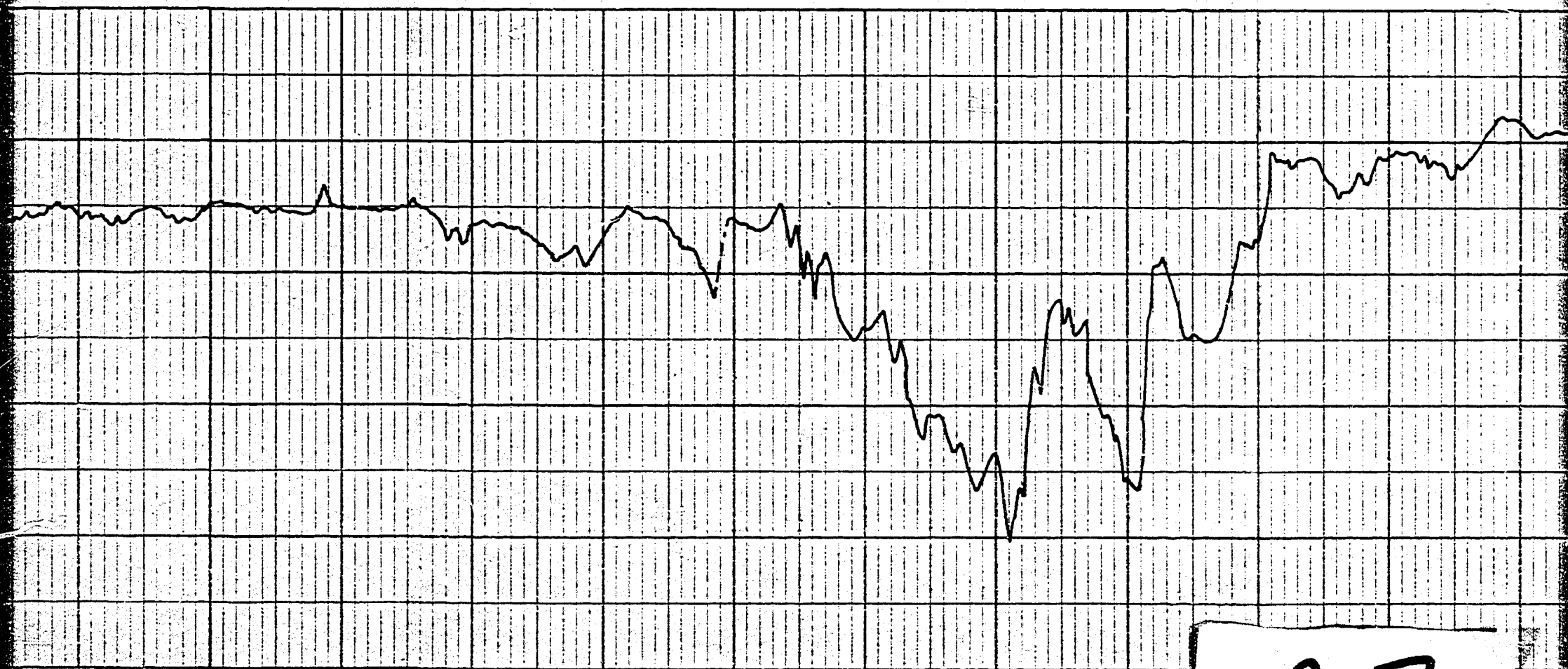
SINGLE POINT RESISTIVITY CURVE
10 OHMS PER INCH DEFLECTION



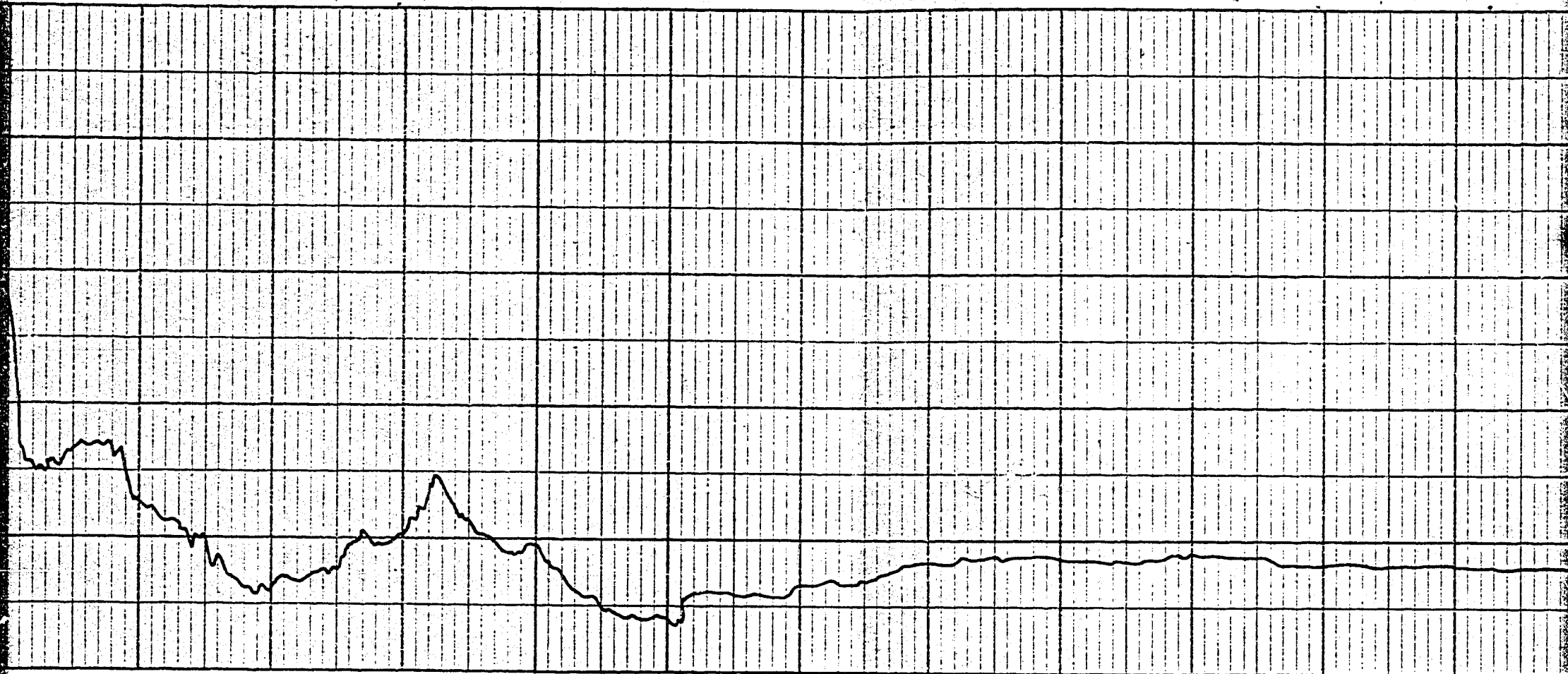


300

400

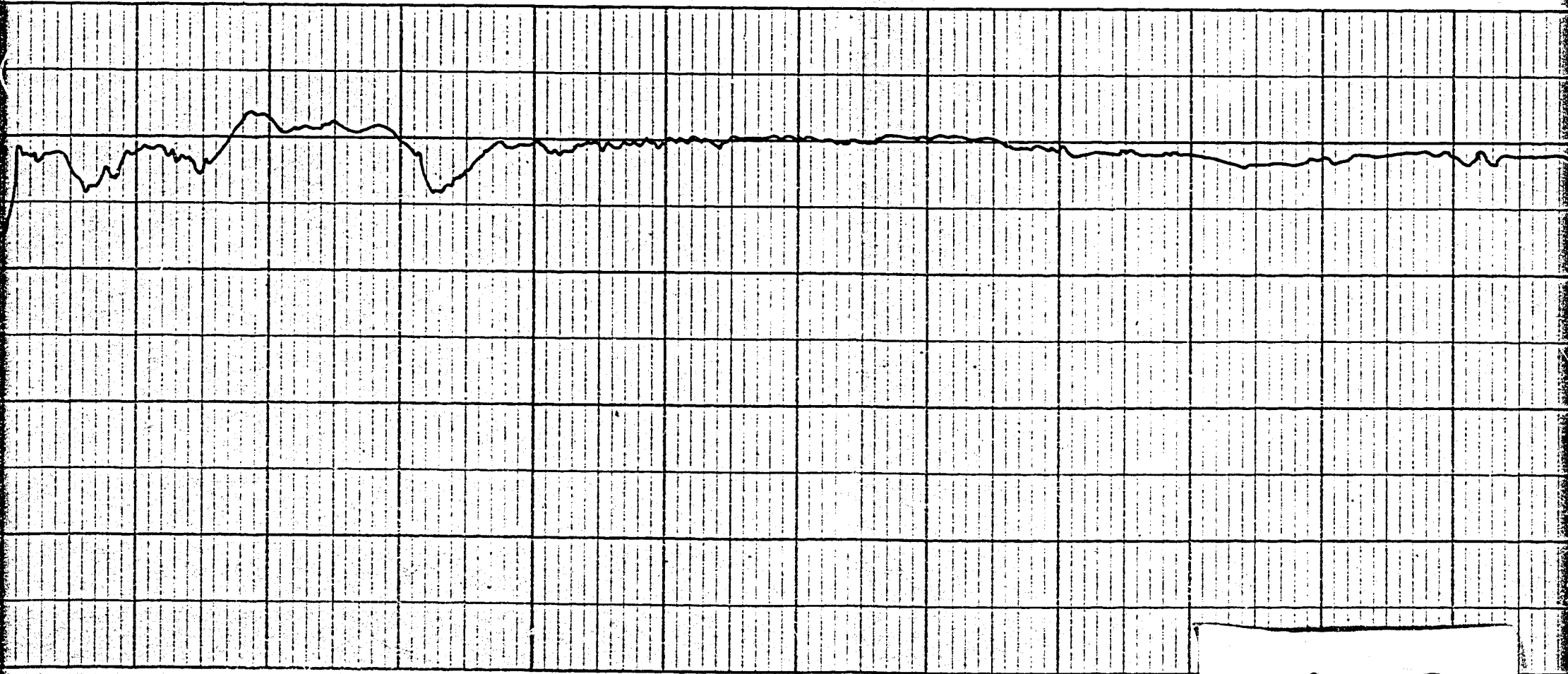


28

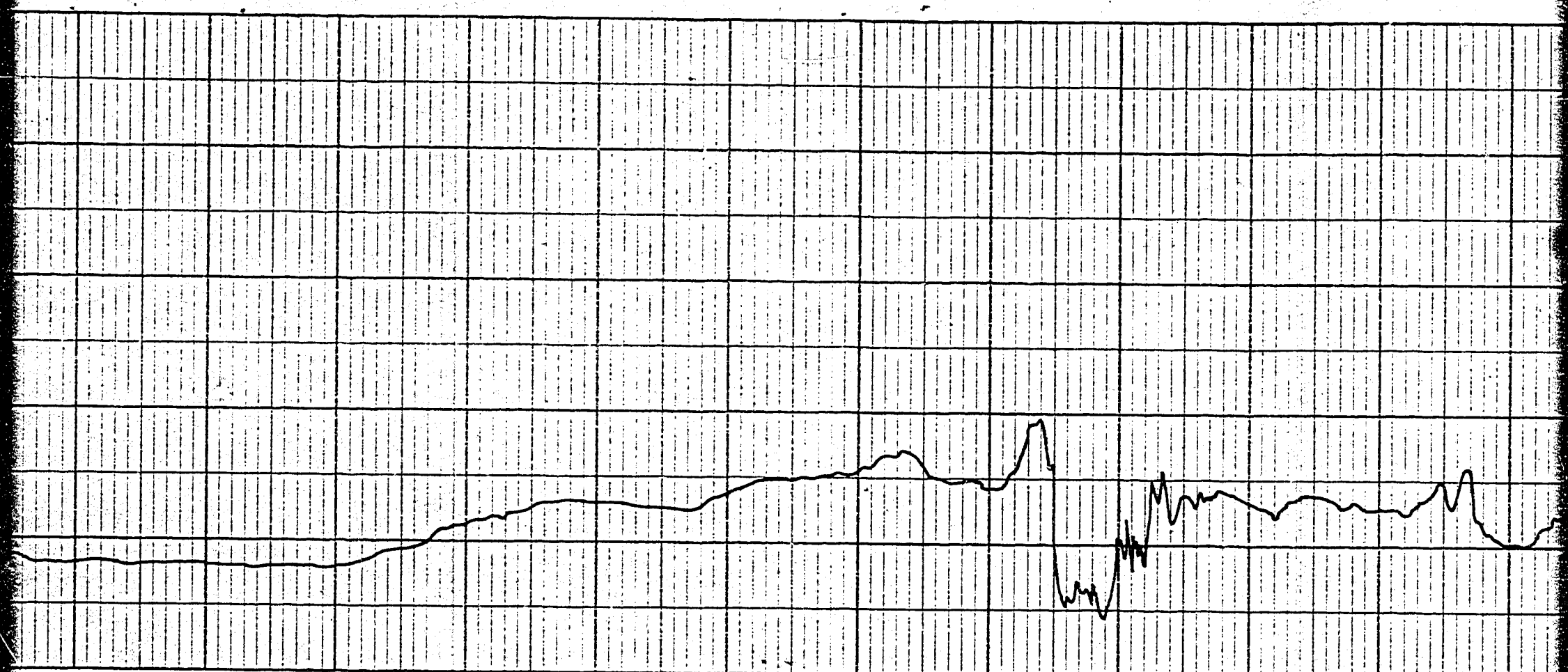


500

600

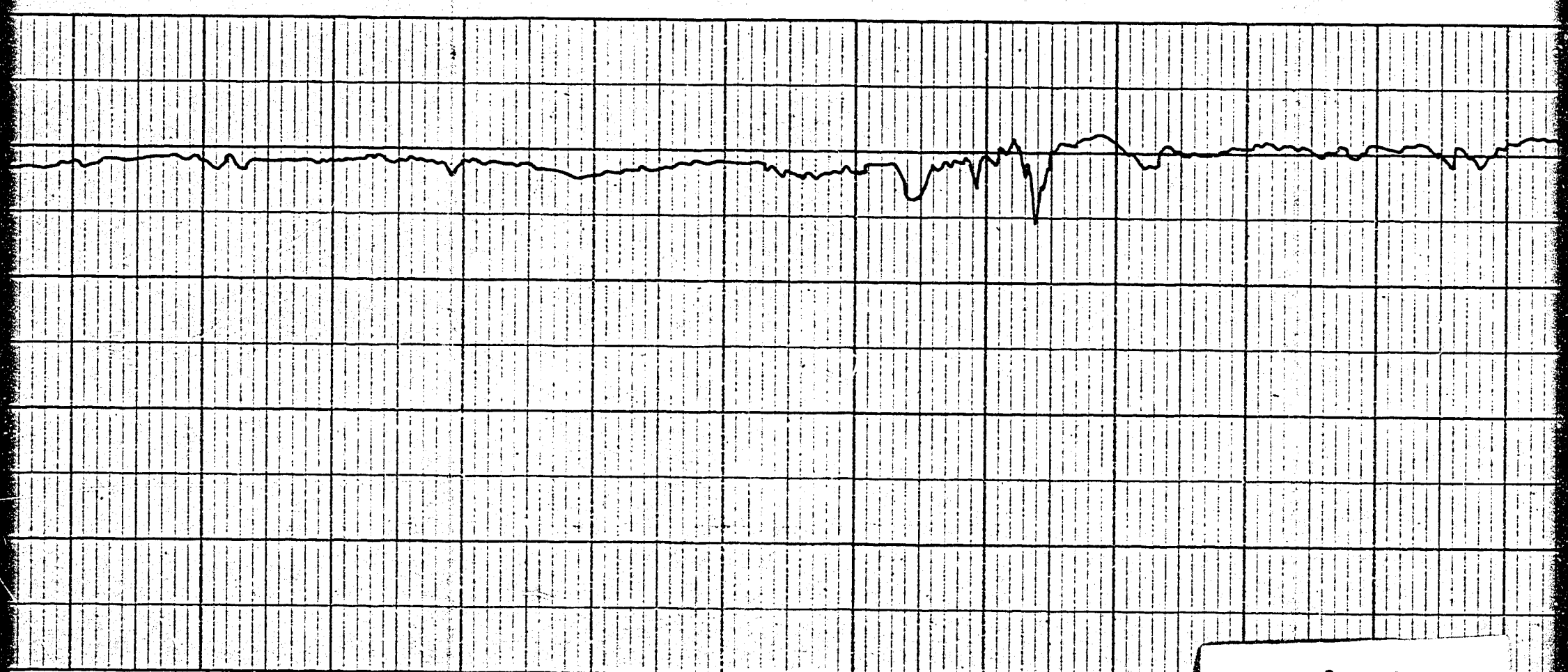


302

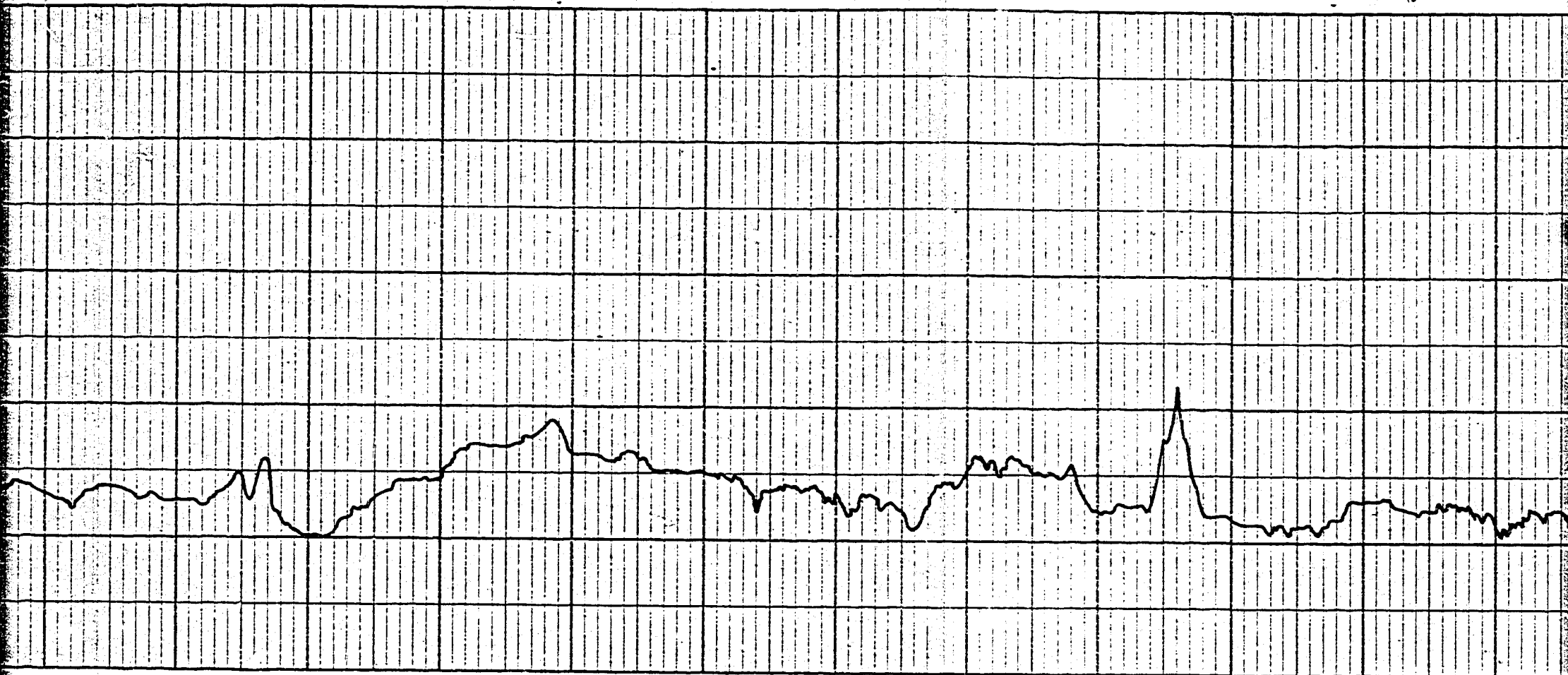


700

800



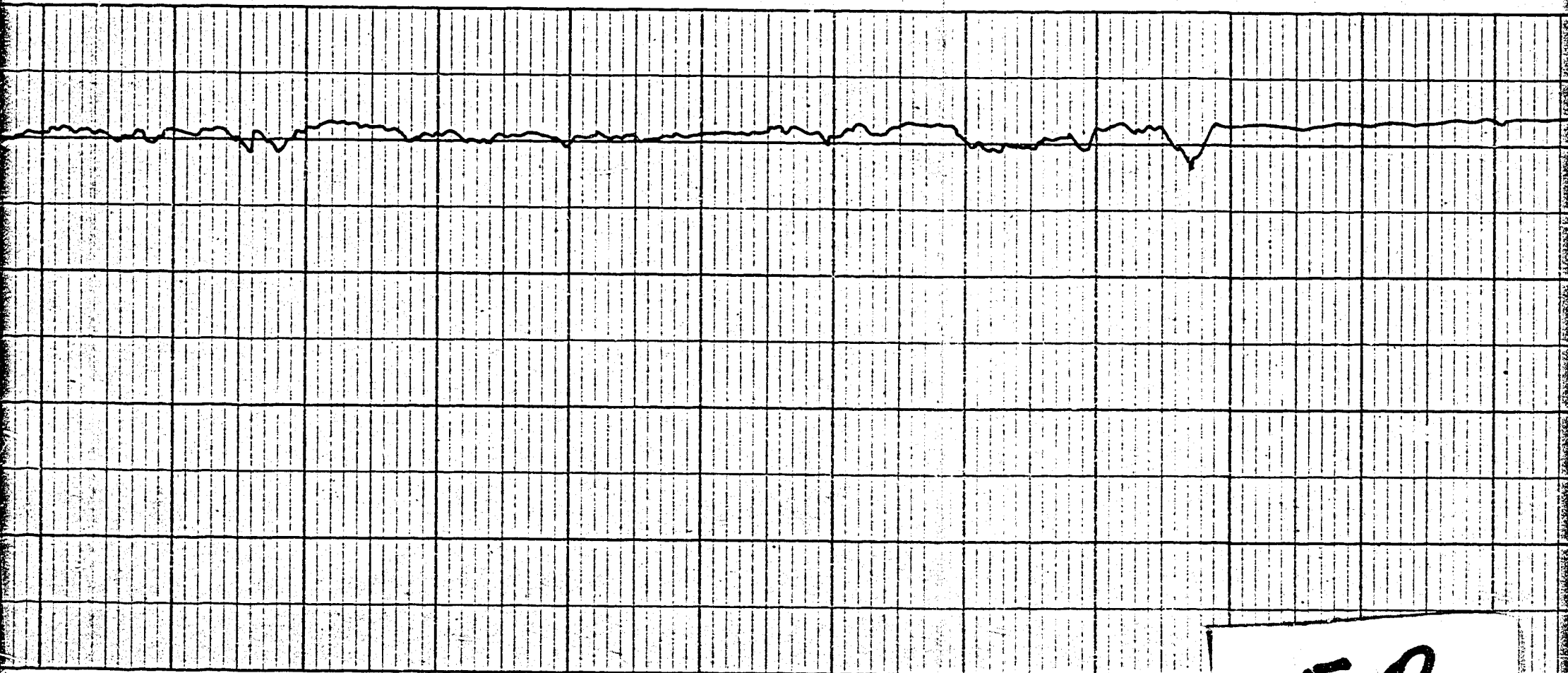
49



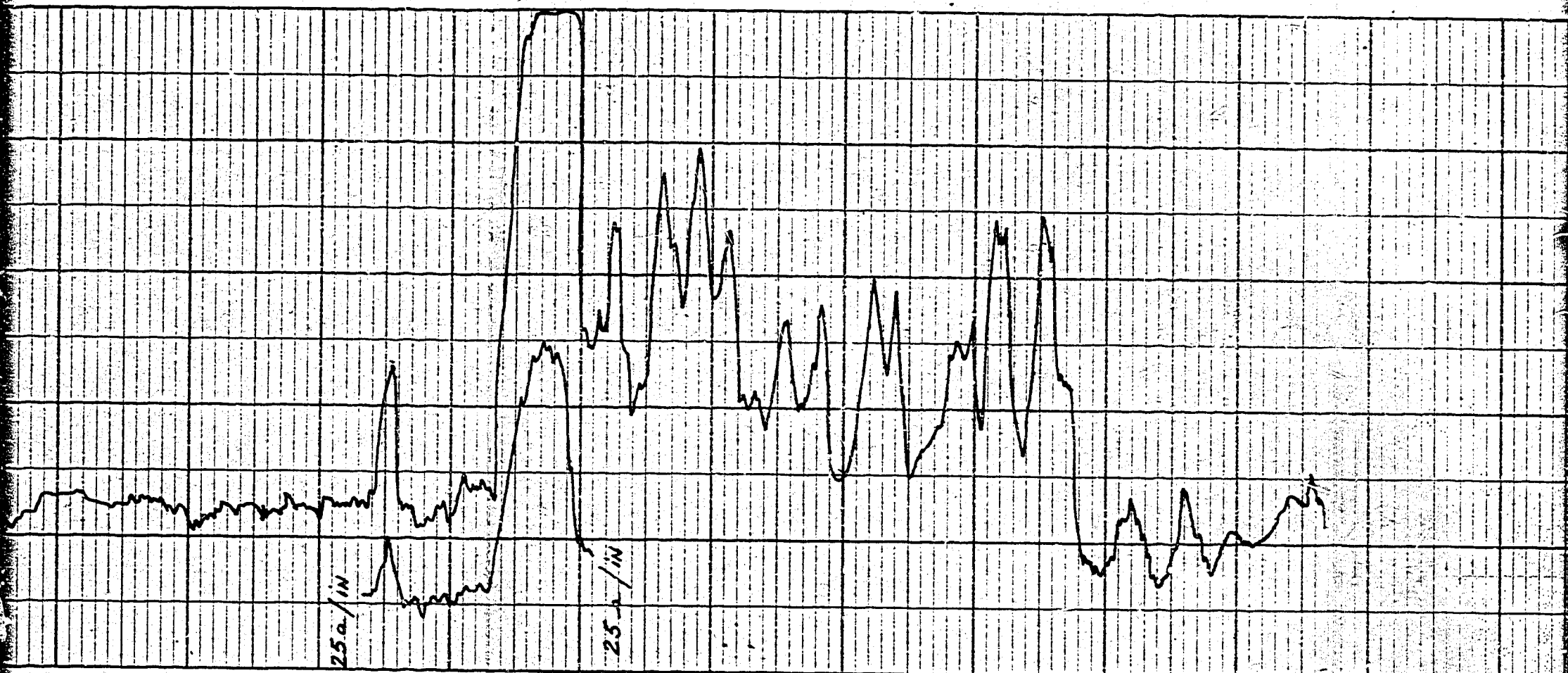
800

900

1000



52



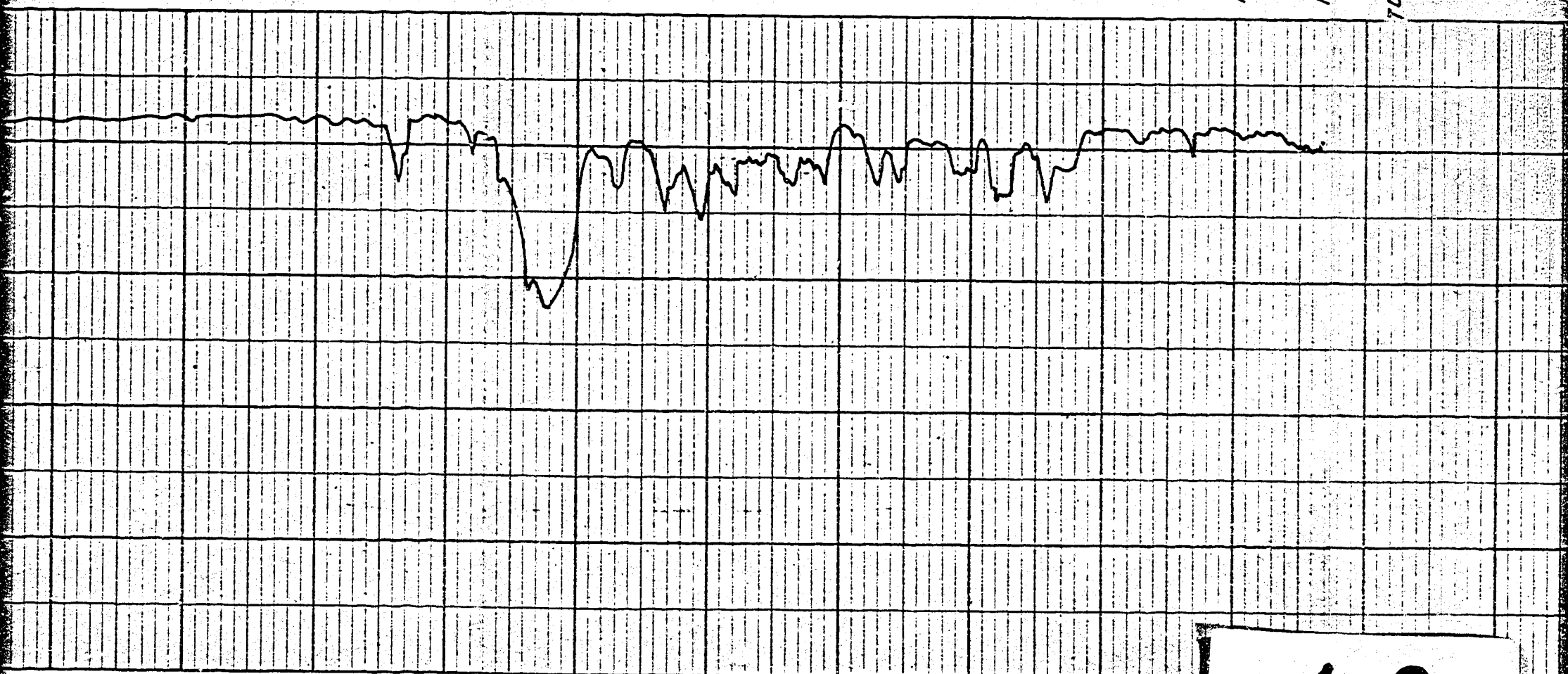
1000

1100

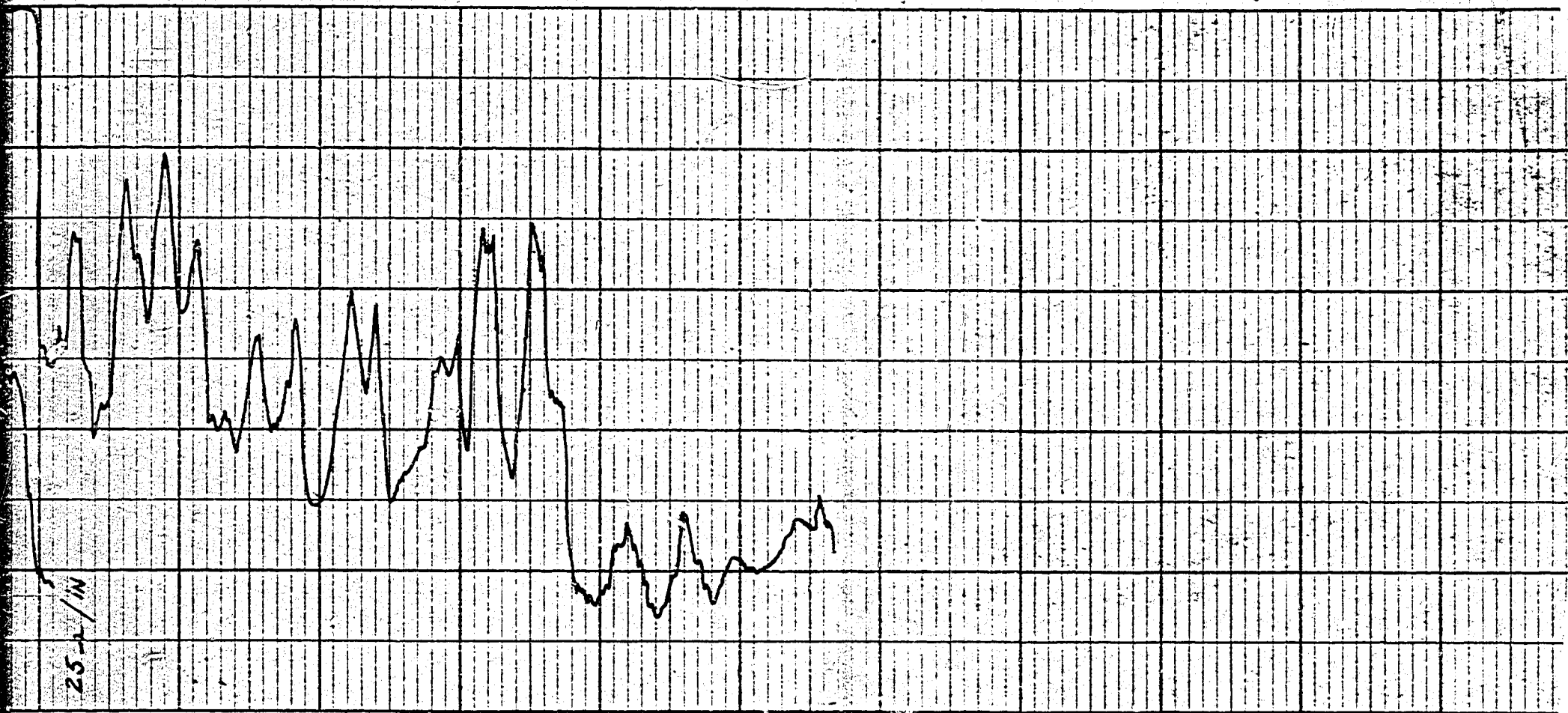
1180

1193

TO 1194



62



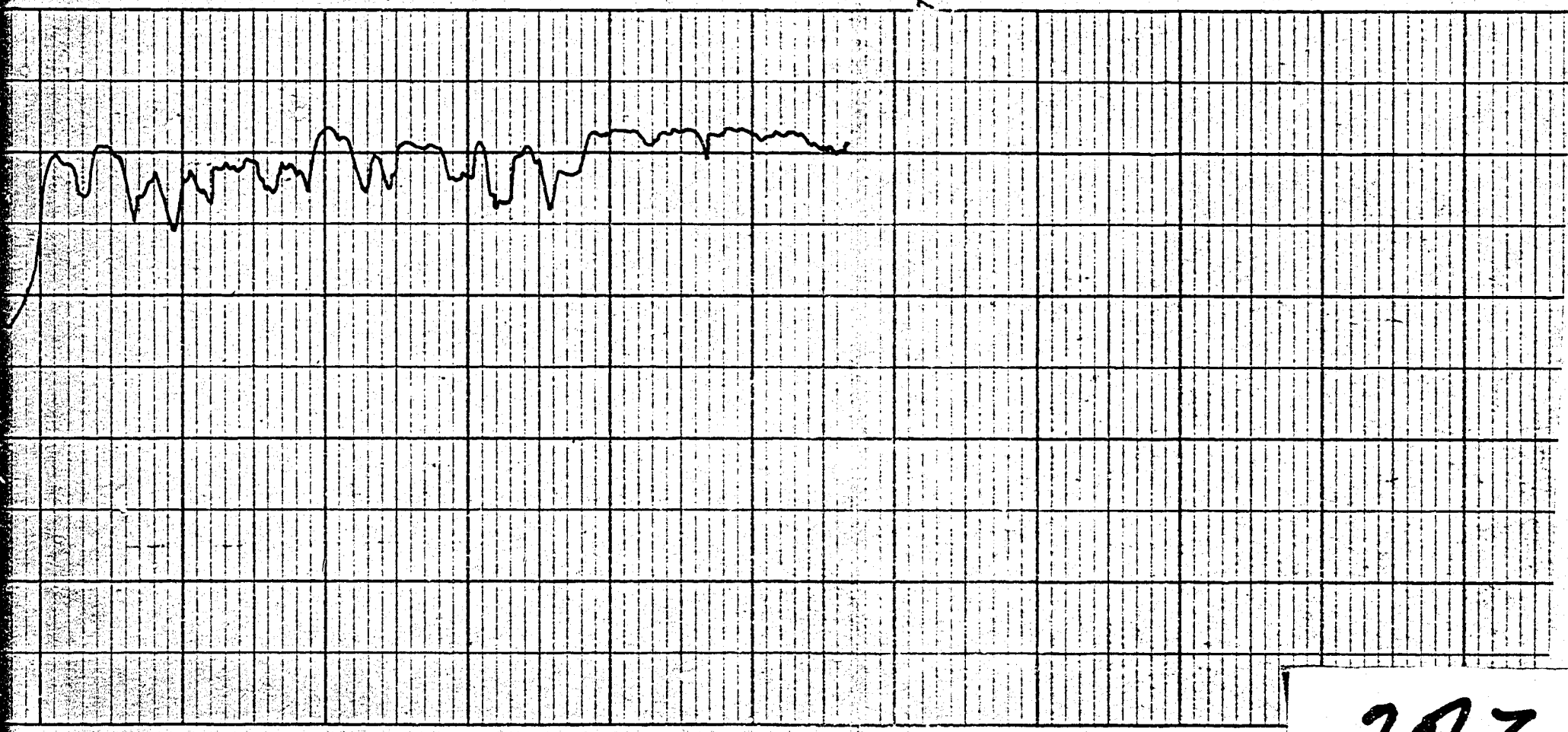
25 μV

1100

1180

1193

70 1194



797

Heard

RANGE W M

CANADIAN DIVISION

WELL LOG AND HISTORY

WELL NAME & NO. R.O. CORP Grandview Hills Core Hole No. 1 AREA Grandview Hills PROVINCE Northwest Territories

LOCATION: L. S. D. _____ SEC. _____ TWP. _____ RGE. _____ WEST _____ MER. _____ CO-ORDINATES 67° 13' 40" N. Lat. 130° 51' 16" W. Long

ELEVATION: GROUND 678 K. B. 683 TOTAL DEPTH 1203 PLUGGED BACK TO _____ CONTRACTOR WESTERN GEOPHYSICAL CO.

SPUD MARCH 29, 1961 COMPLETED DRILLING _____ SUSPENDED _____ ABANDONED APRIL 11, 1961 ON PRODUCTION _____

PRODUCING ZONE AND INTERVAL: _____ I.P. _____ BEAN _____ GRAVITY A.P.I. _____ CUT _____ G.O.R. _____

ENGINEERING DATA		PERFORATIONS:		TYPE	PER FOOT	PLUGS: INTERVAL	WITH	LOSS: INTERVAL	TYPE
CASING SIZE	TO	CEMENT	INTERVAL						
5-1/2	145	30 sax plus 50# CaCl ₂				#1. 1203-1175	10 Sax Com. Cement.	145-1194	Widco SP & ES.
						#2. 160-135	10 Sax Com. Cement.		

FORMATION TESTS:

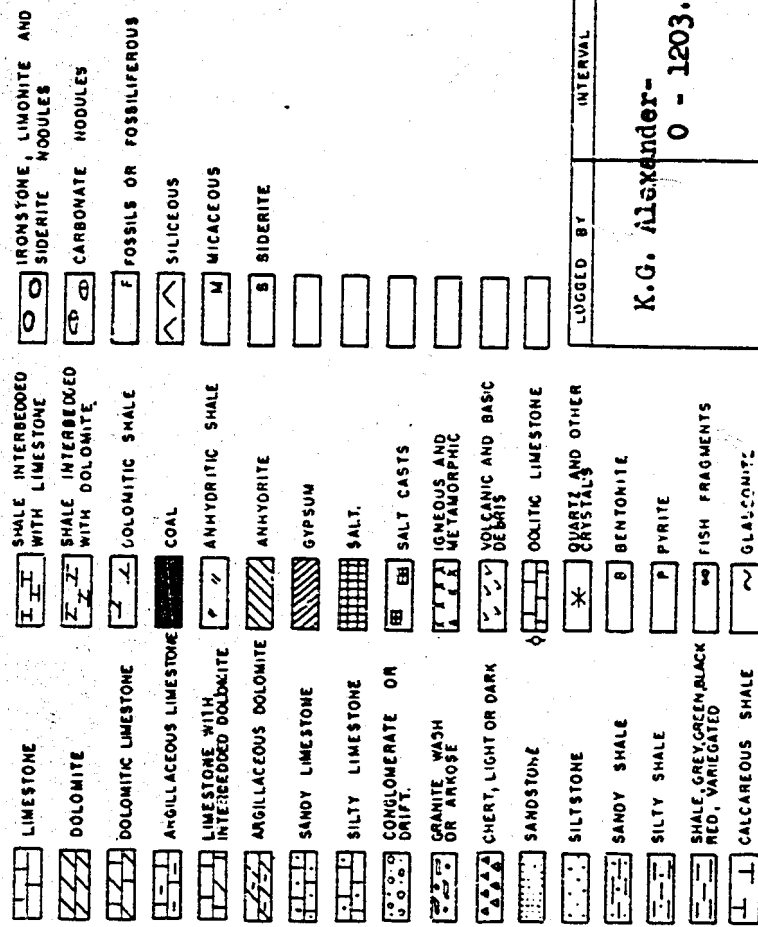
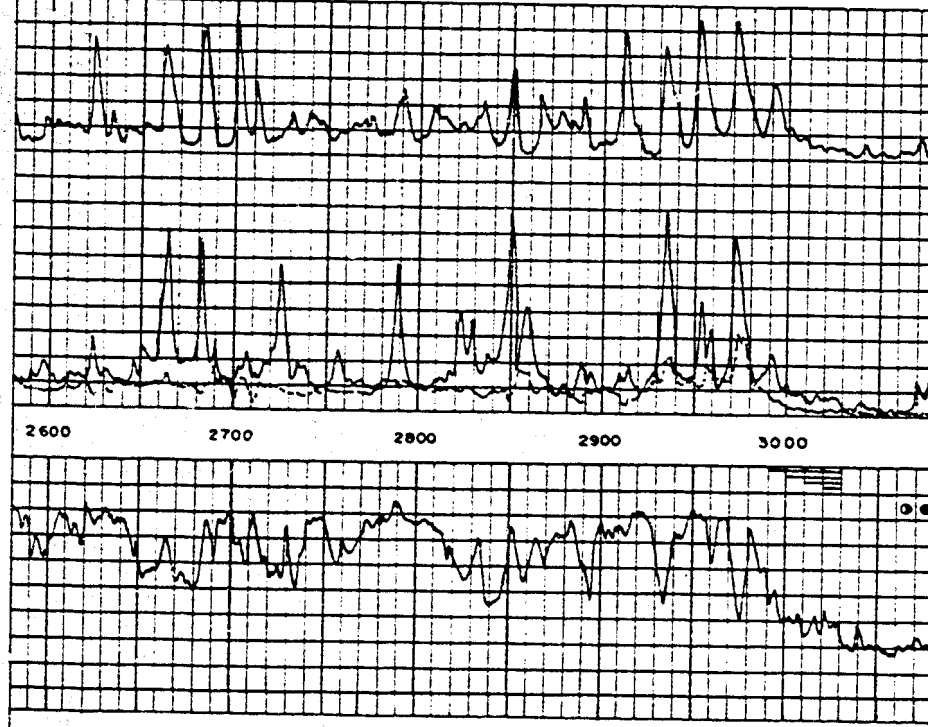
[illegible]

LEGEND

PRODUCTION TESTS AND WATER SHUT-OFFS



POOR
FAIR
GOOD
EXCEL
OIL SHOWS:
STAIN
SATUR



LOGGED BY _____ INTERVAL _____

K.G. Alexander-
0 - 1203.

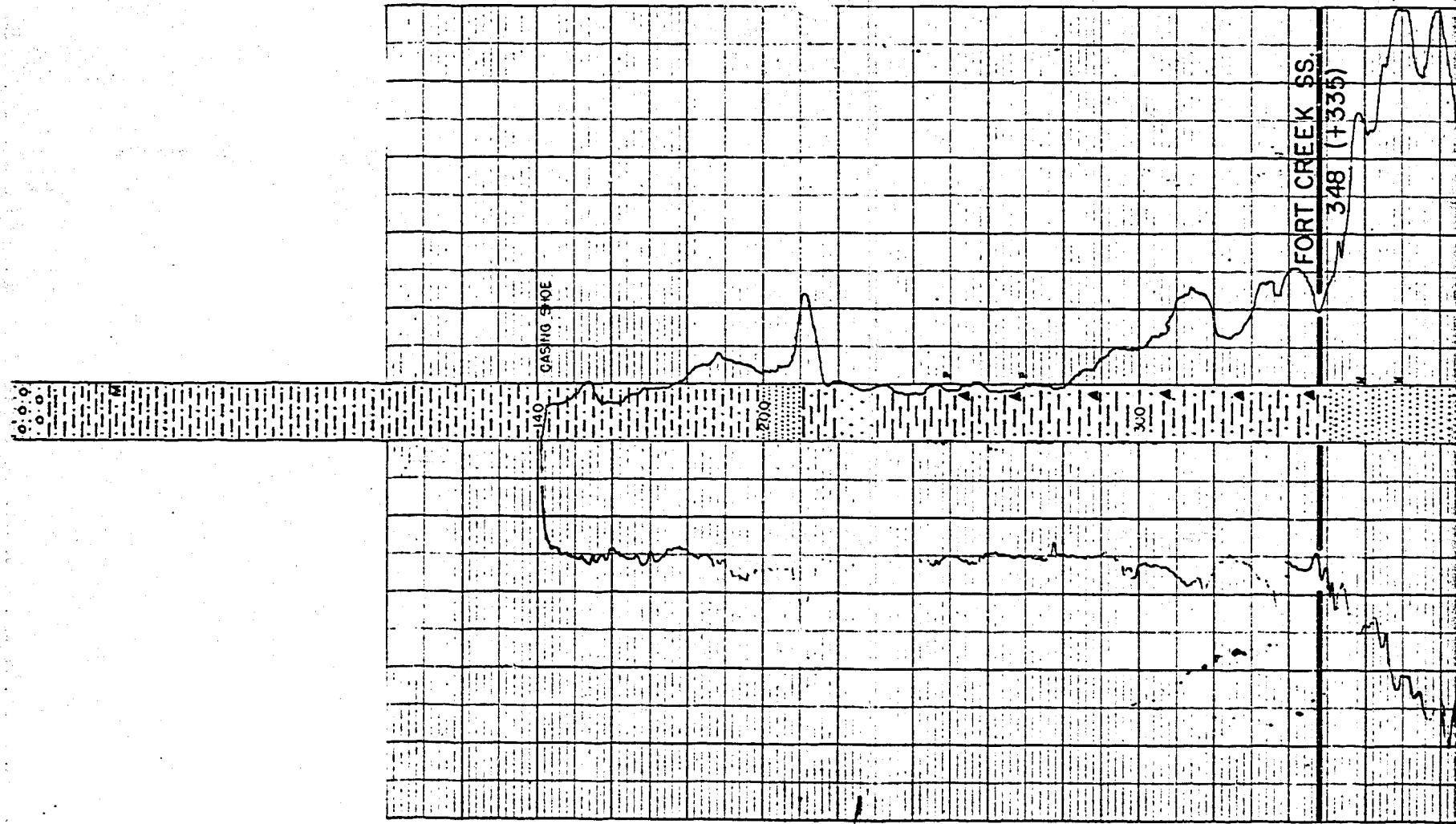
ADDITIONAL DATA

CORE SUMMARY

<u>Type</u>	<u>No.</u>	<u>Interval</u>	<u>Rec.</u>	<u>Formation</u>	<u>% Rec.</u>
Diamond	1	1194-1203	9'	M. Remnants	100%

CASING DEPS. PLUS	TESTS		CORES
	PROD. W.O.	DOWN HOLE & PB TESTS	

5 1/2" CO 145' W/ 30 SBR. 550 LBS. CACIL
 Plug No. 2 105 SBR.



01/01/1974

Sh: dk grt, alc, non-calc, sl silty, v/tr ss: t/veg,
 lt brn/br, sl arg, non-calc.

Sh: t/veg, sl calc, tl, v/altat, lt tan, v friable, non-calc.

Sh: dk grt/bht, bht, non-calc, v/altat: lt tan, fri, non-calc.

Sh: dk grt/bht, bht, pyrr, hard, tr blk ch, tr coal.

Sh: lt brn, t/ag, good sort, sub-rnd, calc in pt,
 appears o.ain but no cut, friable in pt.

308

Ss: lt brn, f/sg, good sort, sub-rad, alc, calc in pt,
appears o.ath but no cut, friable in pt.

Ss: vlg/fg, lt brn, good sort, sub-rad, alc, pyf,
calc in pt, ti, v/shi: v lt grt, soft, non-calc, tr
ch and lt brn ls.

Ss: lt grt, mic, silty in pt, al calc.

Ss: lt grt, mic, silty, al calc v/sg: vlg/sltst: lt brn,
mic, al calc.

Ss: lt grt, silty, mic, v/sg: al ls: al brn, crypto/c xln, ti.

Ss: lt grt, mic, silty, calc, v/sltst: lt grt, mic, calc,
al ls: al brn, crypto/c xln, ti.

Ss: al grt, mic, carb, silty, al calc, v/ls: f/cryptoalc,
lt grt/lt al brn, mic in pt, ti.

FORT CREEK SS.

348 (+335)

49

Sh: 1t gr7, alty, nio, v/ao: a/a, & 1st dk brn, crypto/f xla, ti.

Sh: 1t gr7, nio, alty, cal, v/altot: 1t gr7, nio, cal, & 1st dk brn, crypto/f xla, ti.

Sh: dk gr7, nio, carb, alty, al cal, v/ao: t/cryptom, 1t gr7/1t & dk brn, nio in pt, ti.

Sh: dk gr7, nio, carb, alty, gr7 in pt, v/ao: 1t/da brn, crypto/f xla, ti.

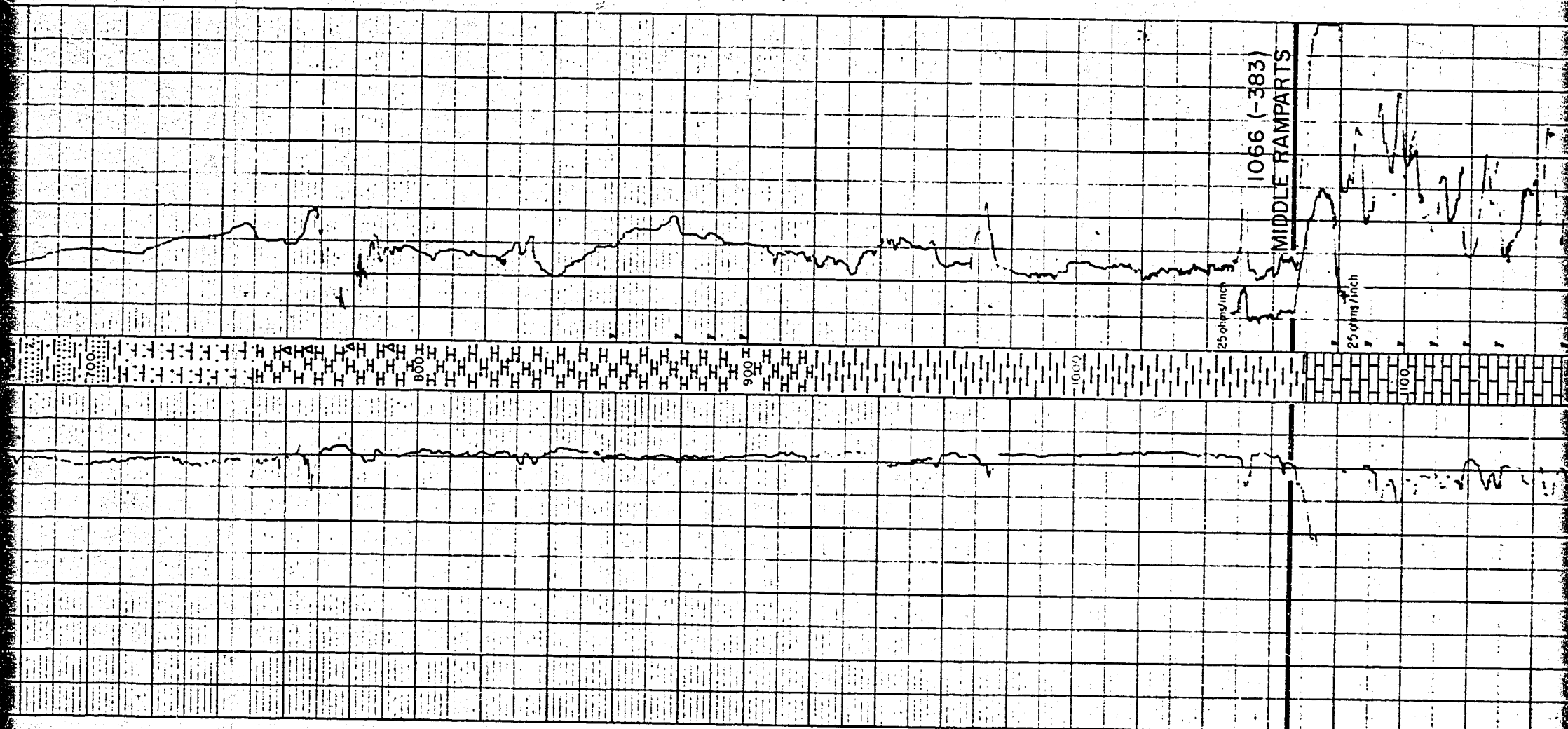
Tr foss.

Sh: 1t/da gr7, nio, al cal, v/ao: a/a, tr foss.

Sh: 1t/da gr7, carb, al/non-cal, nio in pt, alty in pt.

La: dk brn/1t gr7-brn, crypto/f xla, frag in pt, ti, v/ao: 1t/1t gr7, al cal, foss com.

La: brn/gr7-brn, non-frag, ti, v/ao: a/a, seat foss.



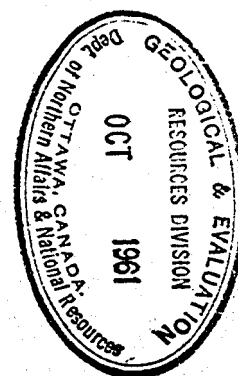
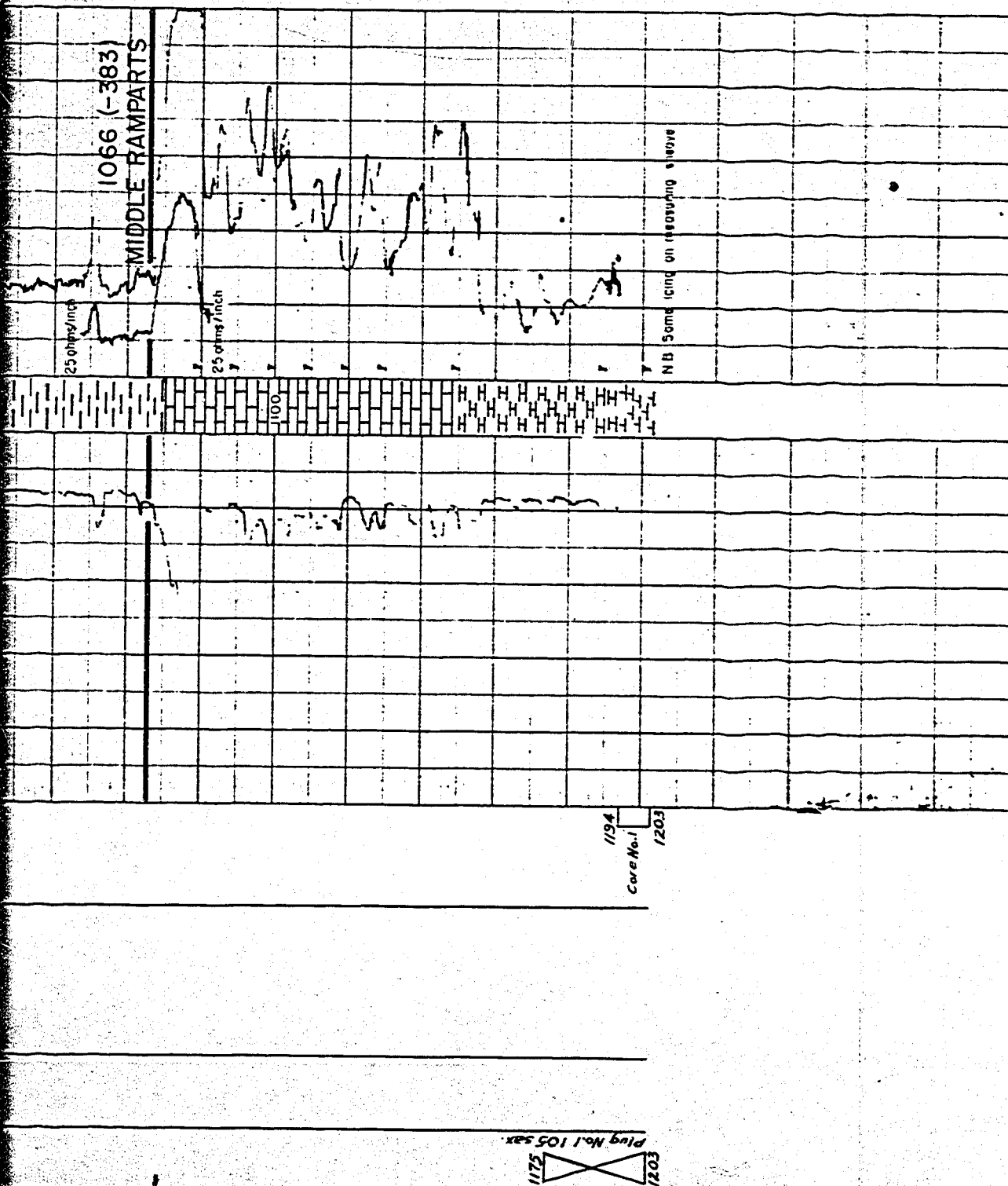
52

La: dk brn/lt gry-brn, crypto/s aln, frag in pt, ti, v/ab
 blk/lt gry, al calc, foss comm

La: brn/ary-brn, non-frag, ti, v/ab; e/s, scat foss

dh: lt/dk gry, calc in pt, v/la; dk/lt brn, crypto/s aln,
 silty in pt, ti, is contact to 206

dh: dk gry/blt, calc, v foss, v/small ante lei dk brn,
 r/s aln, formless calc patches throughout, poss algae
 or bryozoa, foss v abundant



606

Drilling Authority No.
Date Issued

WELL NAME
FIELD Area:
LOCATION: Unit Section Grid
Latitude Longitude
From Established Reference Marker

Rig Release Date:
Status
Information Release Date

CHANGE OF NAME:

DATE RECEIVED	INDEX
	Application for a Drilling Authority. Well Completion Data. Well History Report.
	Application to Amend a Drilling Authority.
	Application to change a Well Name.
	Application to Abandon a Well or Suspend Drilling.
	Application to Alter Condition of a Well. Well History Supplement. Well Completion Data. Work-over Report No.
	Application to Commingle Production before Measurement.
	Approval to Commingle Production before Measurement.
	Application to Amend Approval No. to Commingle Production before Measurement.
	Application for M.P.R.—Oil.
	New Oil Well Report.
	New Gas Well Report.
	Well Inspection Report.
	Rig Inspection Report.
	Battery Inspection Report.
	Field Abandonment Programme and Approval.
	Well Card.
	Well Visit.
	Daily Drilling Reports.

DATE RECEIVED

LOGS:

Name

Run No.

Type

Interval

ANALYSES:

Sample

Lab. No.

Formation

Interval

A.O.F. Potential

Formation

Interval

MC.F.D.

Test Date

DRILL STEM TESTS:

No.

Formation

Interval

GRANDVIEW HILLS CORE HOLE NO.1

67° 13' 40" N. Lat.

130° 51' 16" W. Long.

SAMPLE DESCRIPTION

- 0 - 10' Glacial drift.
- 10' Fort Creek Subcrop.
- 10-60' Shale: dark grey, micaceous, non-calcareous, non-fissile, slightly silty.
- 60-110' Shale: as above, waxy in very small part.
- 110-120' Trace pyrite. Trace sandstone: fine to very fine grained, light brown to buff, slightly argillaceous, non-calcareous.
- 120-140' Shale: as above with shale: dark grey to black, fissile, non-calcareous, micaceous.
- 140-150' Shale: light to dark grey, micromicaceous, non-calcareous, fissile in part with sandstone: fine to very fine grained, light brown, hard, well indurated, non-calcareous.
- 160-180' Shale: as above, trace sandstone: as above.
- 180-190' No sample. Drilled out shoe
- 190-200' Shale: dark grey, bituminous, non-calcareous, with siltstone: light tan, very friable, non-calcareous, minor sandstone: grey, very fine grained, poor sort, sub-rounded, non-calcareous, tight.
- 200-210' Sandstone: very fine to fine grained, light grey, slightly calcareous, tight with minor siltstone: as above, and shale: as above.
- 210-220' Shale: dark grey to black, bituminous, non-calcareous, with minor sandstone: as above.
- 220-240' Shale: as above.
- 240-260' Shale: dark grey to black, as above, with minor siltstone: very light brown, very friable, non-calcareous.

- 260-270' Shale and siltstone: as above with trace sandstone: very fine grained, dark brown, appears oil stained but no cut?
- 270-300' Shale: dark grey to black, bituminous, with trace siltstone: very light brown, very friable, non-calcareous.
- 300-330' Shale: dark grey to black, bituminous, non-calcareous.
- 330-390' Shale: dark grey to black, bituminous, pyritic in part, hard with trace coal and black chert.
- 390-400' Shale: as above, less pyrite.
- 400-420' Sandstone: light brown, fine to medium grained, good sort, sub-rounded, micaceous, slight to non-calcareous, pyritic in part, trace oil stain, no cut, tight, may be friable and porous in part.
- 420-430' Sandstone: as above, no stain, hard
- 430-440' Sandstone: light brown, fine to medium grained, sub-rounded, good sort, calcareous in part, tight(friable in part).
- 440-470' Sandstone: as above, trace limestone: light brown, fine to cryptocrystalline.
- 470-490' Sandstone: as above, trace limestone: as above. Trace brown chert.
- 490-510' Sandstone: light brown, fine to medium grained, as above, becoming more micaceous and argillaceous, calcareous to very slightly calcareous, trace limestone: light brown, fine to cryptocrystalline, slightly argillaceous, tight.
- 510-530' Sandstone: very fine to fine grained, light brown, good sort, sub-rounded, micaceous, pyritic, calcareous in part, tight, with shale: very light grey, soft, non-calcareous, trace of chert and light brown limestone.
- 530-550' Shale: light grey, micaceous, silty in part, soft, non-calcareous, with sandstone: very fine grained, light brown, micaceous, as above, but becoming finer grained and becoming slightly fissile.
- 550-600' Shale: as above. Sandstone content probably cavings?
- 600-620' Shale: light grey, micaceous, slightly calcareous, soft
- 620-640' Sandstone: light brown, very fine to fine grained, well sorted, micaceous, slightly calcareous, tight, with shale: light grey, as above.

- 640-650' Cavings - trip.
- 650-670' Shale: light grey, micaceous, silty, slightly calcareous, with sandstone: very fine grained to siltstone, light brown, micaceous, slightly calcareous, trace limestone: light brown, fine to cryptocrystalline, pyritic, tight.
- 670-680' Shale: light grey, silty, micaceous, slightly calcareous to non-calcareous, with sandstone: very fine grained, light brown, slightly micaceous, calcareous, and limestone: dark brown, cryptocrystalline to fine crystalline, micaceous, tight.
- 680-710' As above with siltstone: very dark brown, micaceous, slightly calcareous and increasing limestone: as above.
- 710-750' Shale: light grey, micaceous, silty, calcareous, with siltstone: light grey, micaceous, calcareous, and limestone: dark brown, cryptocrystalline to fine crystalline.
- 750-760' Limestone: light to dark brown, fine to cryptocrystalline, micaceous, with shale and siltstone: as above.
- 760-780' Shale: dark grey, micaceous, carbonaceous, silty, hard, slightly calcareous with limestone: fine to cryptocrystalline, light grey to light and dark brown, micaceous in part, dolomitic(?), tight with trace light brown dolomite. Trace chert.
- 780-790' Shale: as above with decreased amounts limestone: as above, trace chert.
- 790-810' Shale: as above, limestone: as above with chert (varicolored), trace fragments detrital(?) limestone.
- 810-820' Shale: dark grey with occasional black mica, slightly calcareous, silty, trace chert.
- 820-850' Shale: dark grey, very slightly calcareous, carbonaceous, micaceous in part, silty with pyrite in part, with approximately 15% limestone: light to dark brown, fine to cryptocrystalline, micaceous in part, clean, tight.
- 850-860' Shale: dark grey, carbonaceous in part, slightly calcareous, micaceous, silty, with limestone: light to dark brown, crypto to fine crystalline, tight, trace fossils (crinoid stem, solitary coral?)
- 860-870' As above, decrease in limestone content.

- 870-900' Shale: light to dark grey, micaceous, slightly calcareous, silty in part with limestone: light to dark brown, crypto to finely crystalline, pyritic in small part, micaceous in small part, tight, trace fossils.
- 900-920' Shale: as above, 90%. Limestone: as above, 10%.
- 920-1000' Shale: light to dark grey, carbonaceous, slightly calcareous, micaceous in part, silty in part.
- 1000-1010' No sample.
- 1010-1035' Shale: light to dark grey, carbonaceous, non-calcareous, silty in part.
- 1035-1120' Limestone: dark brown to light greyish-brown, crypto to finely crystalline, fragmental in part, tight with shale: black to light grey, slightly calcareous, trace limestone: cryptocrystalline, black, very argillaceous, tight, fossils common.
- 1120-1150' Limestone: brown to greyish-brown, as above, minor fragments, tight, with shale: as above, fossils scattered.
- 1150-1160' Shale: light grey to dark grey, calcareous in part, with limestone: dark brown to light brown, crypto to finely crystalline, silty in part, tight.
- 1160-1170' As above, limestone approximately 10%.
- 1170-1180' Shale: as above, with limestone: as above, 20%. Trace fossils.
- 1180-1194' Cavings.

See Core Description.

GRANDVIEW HILLS CORE HOLE NO.1

67° 13' 40" N. Lat.

130° 51' 15" W. Long.

CORE DESCRIPTION

Core No.1 1194-1203' Recovery 100%

Shale: dark grey to black, calcareous, very fossiliferous,
with small amounts secondary limestone: dark brown,
fine to microcrystalline.

Formless calcareous patches throughout possible algae, bryozoans.

Fossils very abundant, brachiopod most common.

Total Depth 1203'