

Lumberger

FOUR ARM
HIGH RESOLUTION
CONTINUOUS DIPMETER
COMPUTED

CANADA LTD

COMPANY AQUITAINE COMPANY OF CANADA LTD

WELL AQUIT ALDER YT C-33

FIELD MILDCAT

PROVINCE YUKON

LOCATION 65° 52' 01.59"N
136° 51' 54.70"W

Other Services
BHC-DR, DIL

Permanent Datum GL Elev. 1718 (EST) ELEV KB 1739

Log Measured From KB 21 Ft. Above Perm. Datum GL 1718

Drilling Measured From KB CBF

CONFIDENTIAL

	24 MAR 78							
	ONE							
	1650							
	1649							
al	1647							
al	292							
	290							
	292							
	12 1/4"							
ole	KCL							
	9.4	70						
d Loss	4.5	32						
ole	FLOW LINE							
mp.	BMKS @ BMKS	OF	@	OF	@	OF	@	OF
mp.	0.219 @ 60	OF	@	OF	@	OF	@	OF
emp.	- @ -	OF	@	OF	@	OF	@	OF
Rmc.	MEAS -							
	0.11 @ 114	OF	@	OF	@	OF	@	OF
	6.5 HR							
p.	114	OF		OF		OF		OF
	HDT-D							
	OSU-C 343							
	FRONTIER							
	LYE							
	MUNROE							

FOLD HERE TO SEPARATE LOG THIS HEADING AND LOG CONFORMS TO API RP 31

Run No	Tool Type	HDM No.	HDE No.	HDP No.	HDS No.	DPI No.	TT R No.	Computed By	Correlation Interval	Step	Search
01E	HDT-D	1740	CE 1927	927	D 1755	-	901	DEC 10	4 FT	1 FT	45 X 1

REMARKS
MUD SAMPLES
R₁ = 316 62 F
R₂ = 304 62 F
1st Run Service Order # 14208
Magnetic Declination 39 E

"Any directional computations made from the dipmeter must be regarded as approximate only. This is because the dipmeter log indicates the orientation of the instrument itself, rather than the direction and amount of the well drift. Therefore, we do not and cannot guarantee the accuracy of such directional computations, and we shall not be liable nor responsible for any loss, costs, damages or expenses incurred or sustained that may result from any such computations."

Time Entering Hole 0630:24:16
Time Bottom Reached 0640:24:16
Time Last Off Bottom 0700:24:16

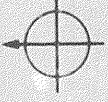
BHT No. 1 °F
BHT No. 2 °F

Rw from Drill Stem Test		ohm · m @		ohm · m @		ohm · m @		LOG TAPED		Yes		No	
DST No.	Rw =	ohm · m	@	ohm · m	@	ohm · m	@						
DST No.	Rw =	ohm · m	@	ohm · m	@	ohm · m	@						
DST No.	Rw =	ohm · m	@	ohm · m	@	ohm · m	@						

TABLE OF VERTICAL DISPLACEMENT IN FEET CORRESPONDING TO VARIOUS HORIZONTAL DISTANCES AND ANGLES OF DIP

DIP ANGLES (degrees)	VERTICAL DISPLACEMENT FOR HORIZONTAL DISTANCES		DIP ANGLES (degrees)	VERTICAL DISPLACEMENT FOR HORIZONTAL DISTANCES	
	100'	1000'		100'	1000'
1	1.75	17.5	19	34.4	344.
2	3.5	35.	20	36.4	364.
3	5.2	52.	21	38.4	384.
4	7.0	70.	22	40.4	404.
5	8.8	88.	23	42.5	425.
6	10.5	105.	24	44.5	445.
7	12.3	123.	25	46.6	466.
8	14.1	141.	30	57.7	577.
9	15.8	158.	35	70.0	700.
10	17.6	176.	40	83.9	839.
11	19.4	194.	45	100.0	1000.
12	21.3	213.	50	119.2	1192.
13	23.1	231.	55	142.8	1428.
14	24.9	249.	60	173.2	1732.
15	26.8	268.	65	214.4	2144.
16	28.7	287.	70	274.8	2748.
17	30.6	306.	75	373.2	3732.
18	32.5	325.	80	567.1	5671.

To obtain vertical displacements corresponding to multiples of hundreds of feet, thousands of feet or miles, multiply the number found in the table by the number of hundreds, thousands or miles.
 Example: The formation dip is 16 degrees. The vertical displacement occurring at a spot 660 feet away from the well is desired. The table shows 28.7 feet per 100 feet for 16° dip. Therefore 28.7 x 6.60 = 189.42, or 189. feet.



GRAPHIC PRESENTATION

CORRELATION CURVE	DEPTHS	TRUE DIP ANGLE AND DIRECTION	DRIFT & DIRECTION OF SONDE
	0°	10°	0°
		20°	80°
		30°	90°
		40°	
		50°	
		60°	
		70°	
		80°	
		90°	

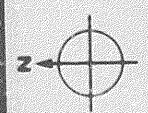
AQUITAINE
 AQUIT ALDE
 WILDCAT
 YUKON
 RUN NO ONE
 MARCH 24, 1
 ARROW PLOT

CORRELATIO
 STEP LENG
 SEARCH AN
 HOT-D T

1 OF

DRIFT & DIRECTION OF SONDE	DEPTHS	CORRELATION CURVE	100'	1000'	(degrees)	100'	1000'	(degrees)	100'	1000'
	0°		100'	1000'	19	17.5	1000'	19	100'	1000'
	10°		175	1750	20	35	1750	20	34.4	344
	20°		35	3500	21	52	3500	21	36.4	364
	30°		52	5200	22	70	5200	22	38.4	384
	40°		70	7000	23	88	7000	23	40.4	404
	50°		88	8800	24	105	8800	24	42.5	425
	60°		105	10500	25	123	10500	25	44.5	445
	70°		123	12300	26	141	12300	26	46.6	466
	80°		141	14100	27	158	14100	27	57.7	577
	90°		158	15800	28	176	15800	28	70.0	700
			176	17600	29	194	17600	29	83.9	839
			194	19400	30	213	19400	30	100.0	1000
			213	21300	31	231	21300	31	119.2	1192
			231	23100	32	249	23100	32	142.8	1428
			249	24900	33	268	24900	33	173.2	1732
			268	26800	34	287	26800	34	214.4	2144
			287	28700	35	306	28700	35	274.8	2748
			306	30600	36	325	30600	36	373.2	3732
			325	32500	37			37	567.1	5671
					38			38		

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	30°	30°	0°
	40°	40°	0°
	50°	50°	0°
	60°	60°	0°
	70°	70°	0°
	80°	80°	0°
	90°	90°	0°

AQUITAINE CO OF CANADA LTD
 AQUIT ALDER YT C-33
 WILDCAT
 YUKON
 RUN NO ONE
 MARCH 24, 1978
 ARROW PLOT FROM CLUSTER P

CORRELATION LENGTH 4
 STEP LENGTH 1
 SEARCH ANGLE 45 DEG
 HDT-D TTR DEC 10

DRIFT & DIRECTION OF SONDE
 0° 10° 20° 30° 40° 50° 60° 70° 80° 90°
 TRUE DIP ANGLE AND DIRECTION
 DEPTHS
 CORRELATION CURVE

AQUITAINE CO OF CANADA LTD
 AQUIT ALDER YT C-33
 WILDCAT
 YUKON
 RUN NO ONE
 MARCH 24, 1978
 ARROW PLOT FROM CLUSTER PROGRAM

CORRELATION LENGTH 4 FT.
 STEP LENGTH 1 FT.
 SEARCH ANGLE 45 DEGREES X1
 HDT-D TTR DEC 10

JOB 1671.00

CORRELATION CURVE
 DEPTHS
 DRIFT
 DIP ANGLE AND DIRECTION
 0 10 20 30 40 50 60 70 80 90 100
 ALL QUALITY ARROW PLOT 01671
 FROM THE CLUSTER PROGRAM
 BLACK ARROWS ARE HIGHEST QUALITY

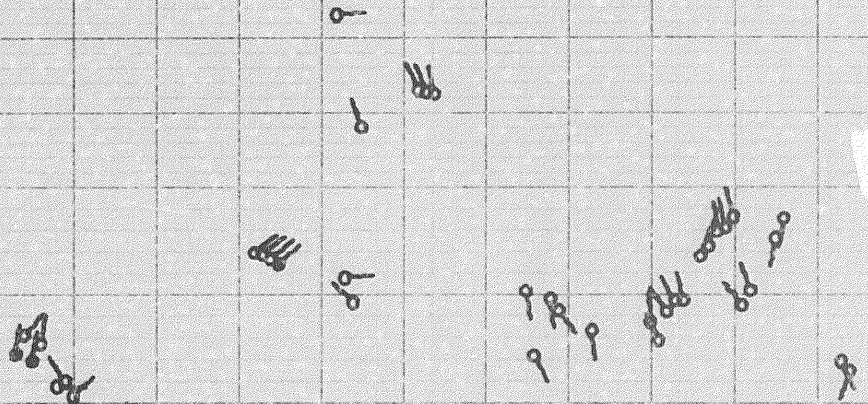
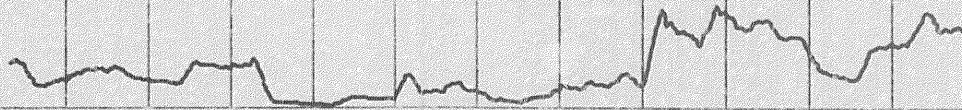
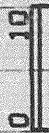
SEARCH ANGLE

45 DEGREES X1

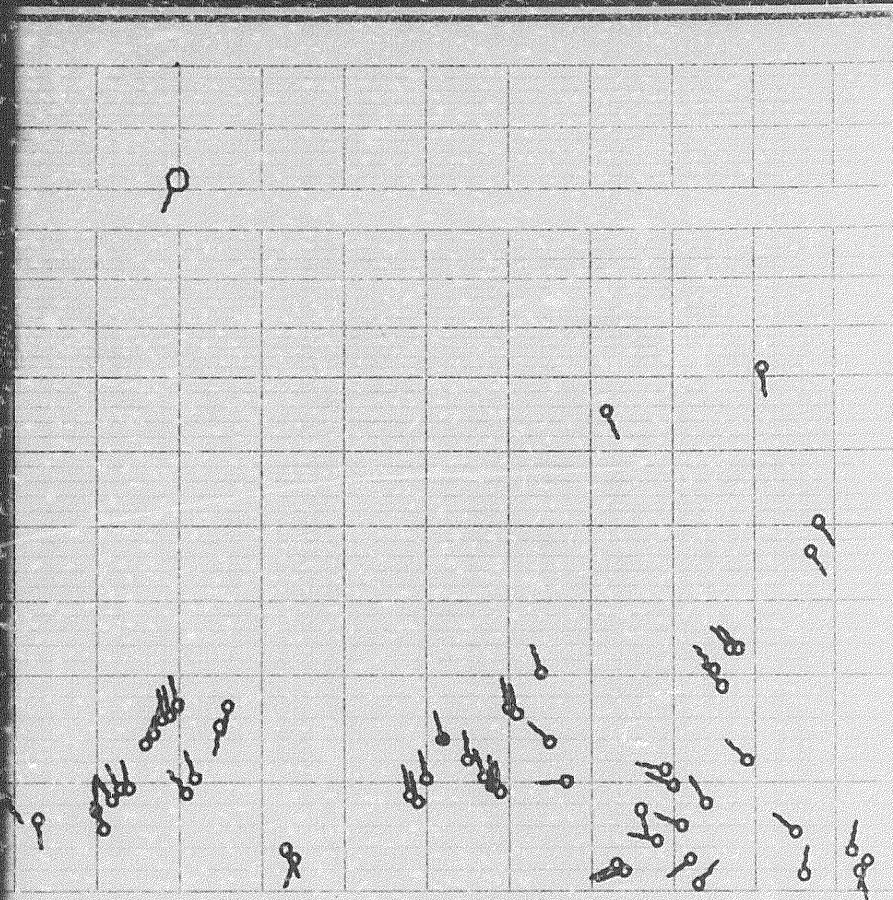
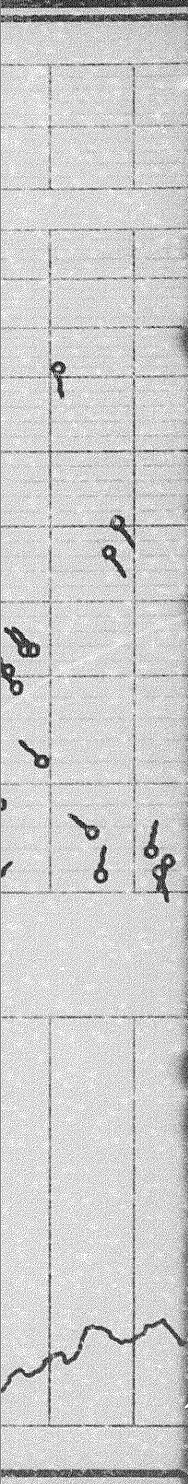
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ZONE FROM 312 TO 1643

RESISTIVITY INCREASED



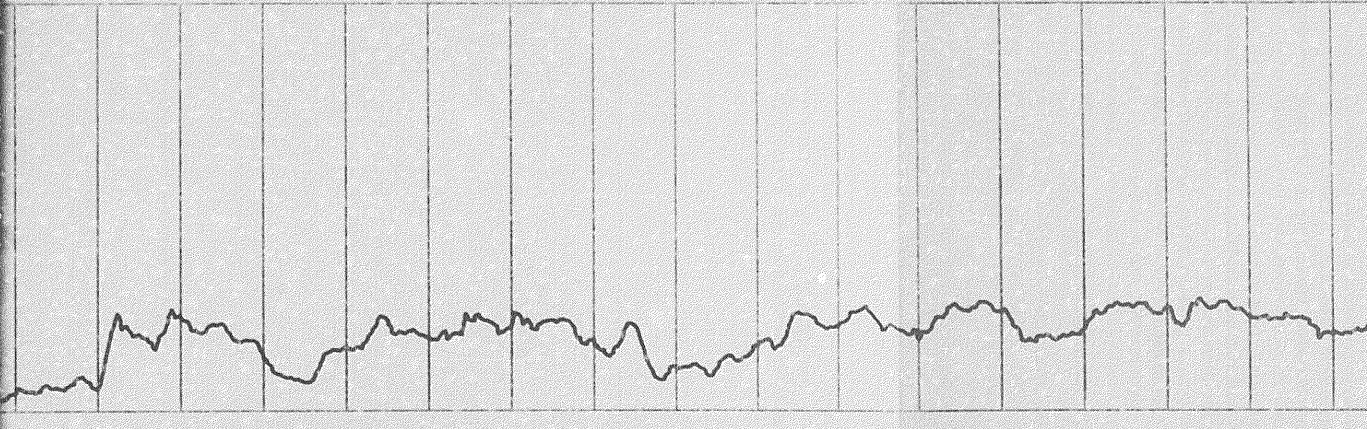
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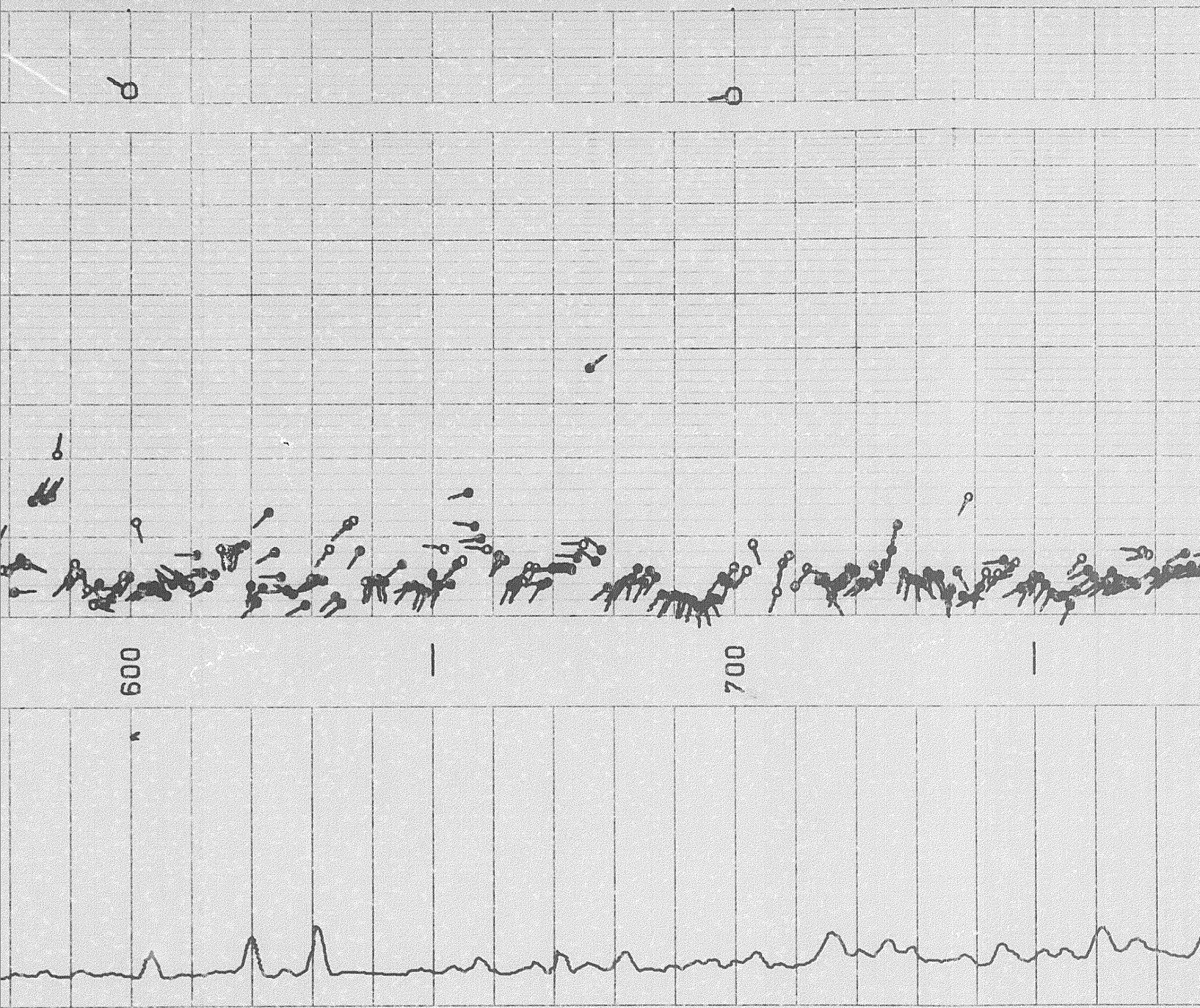


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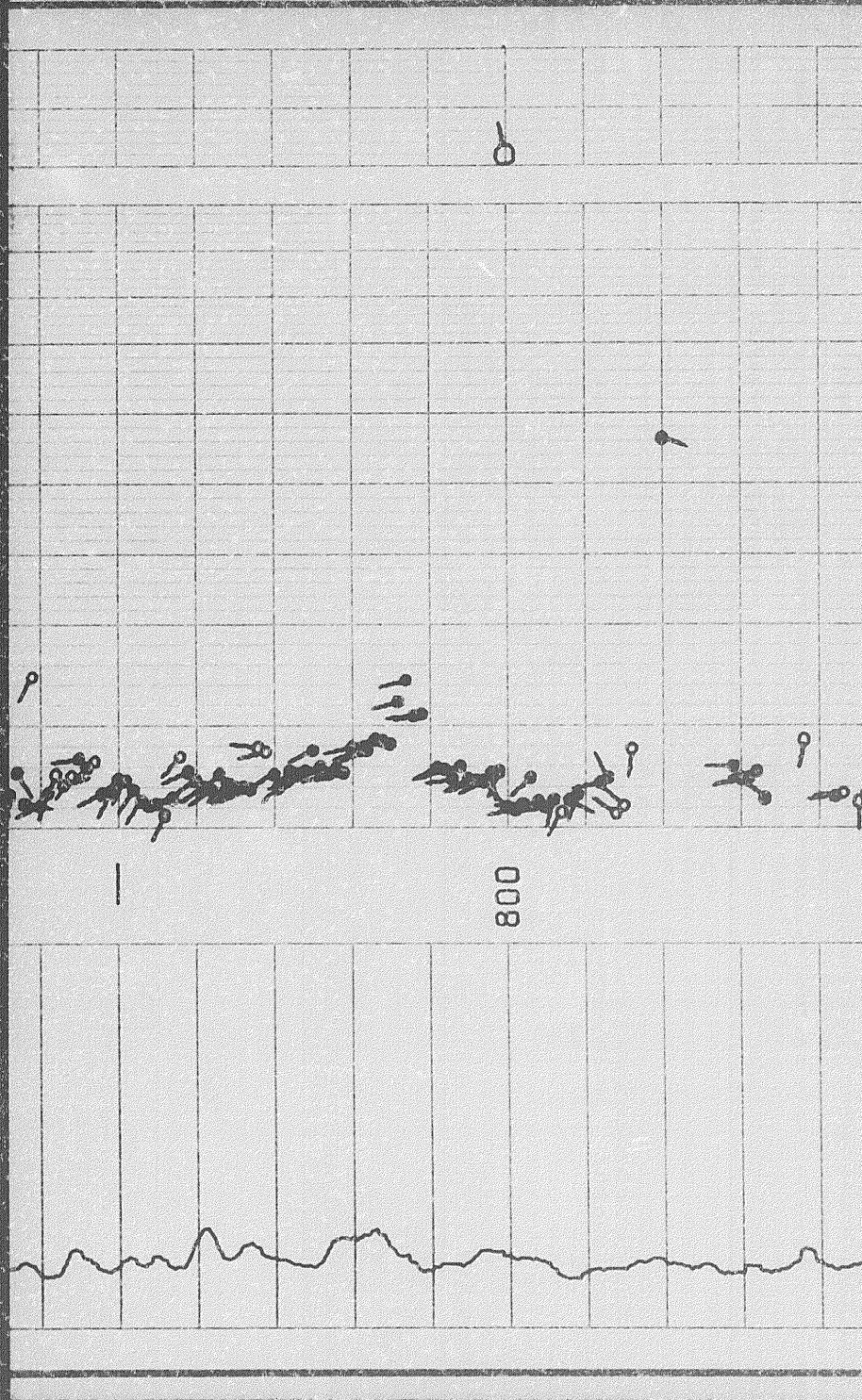
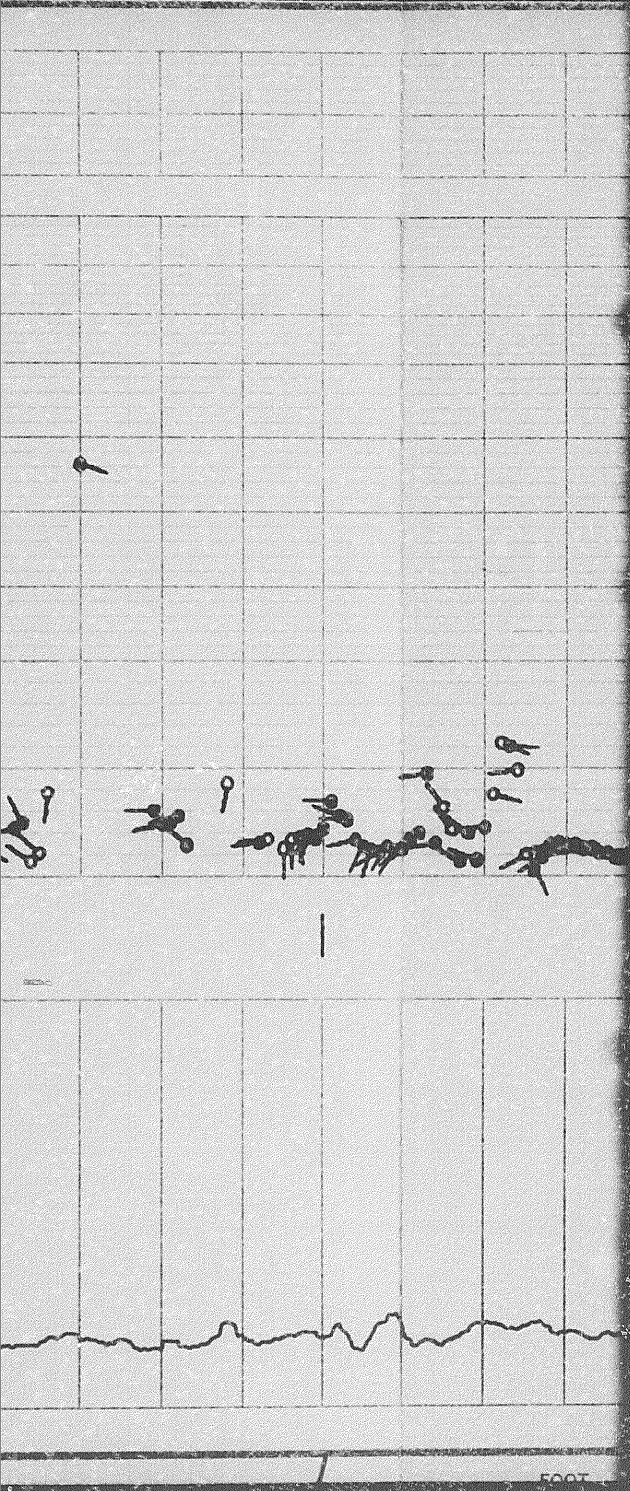
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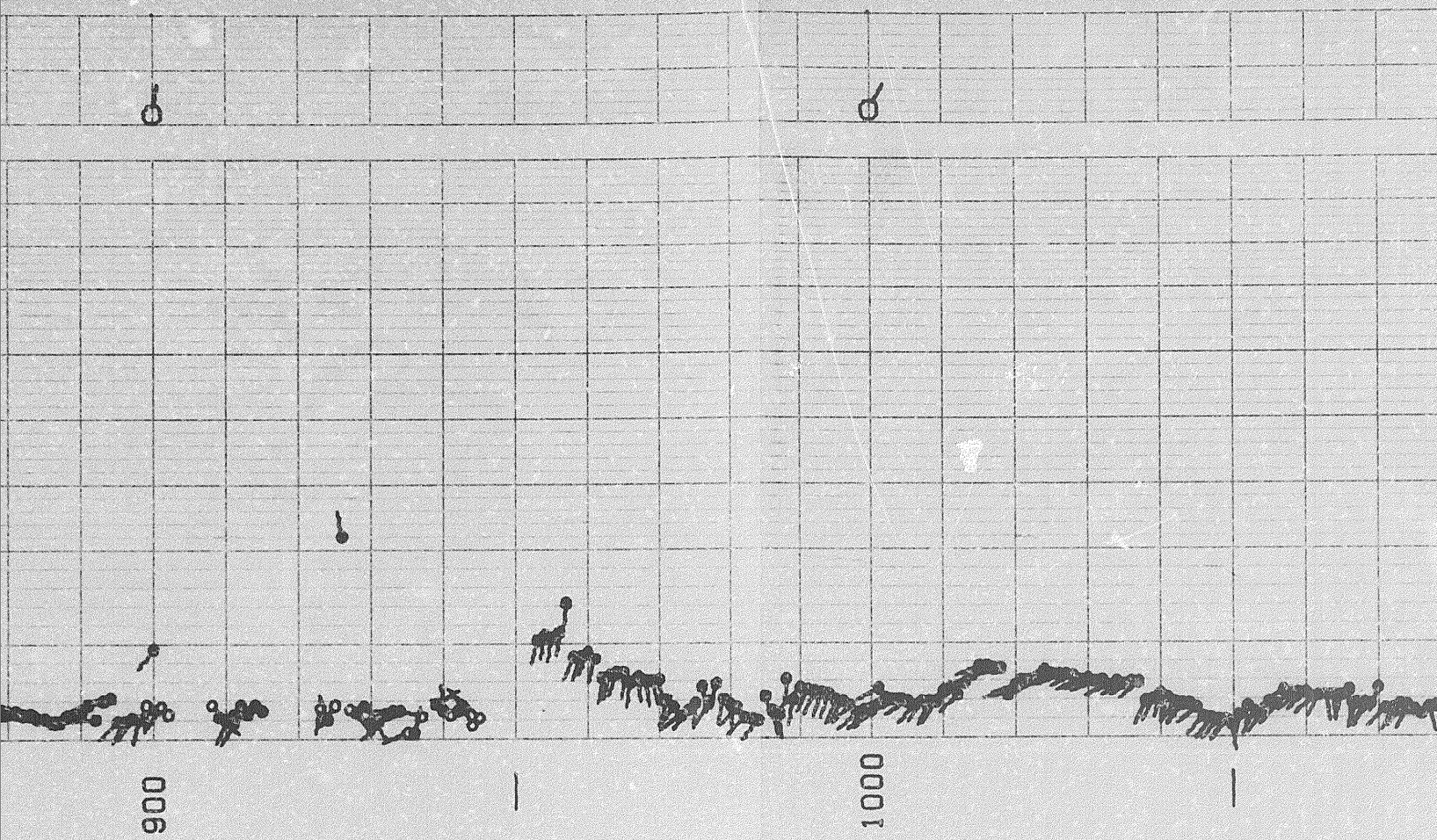
500





3 OF





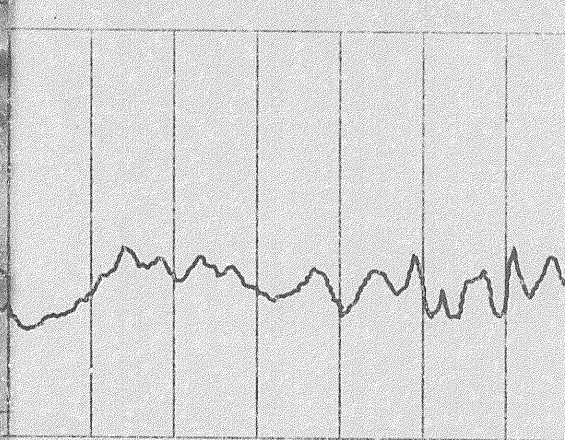
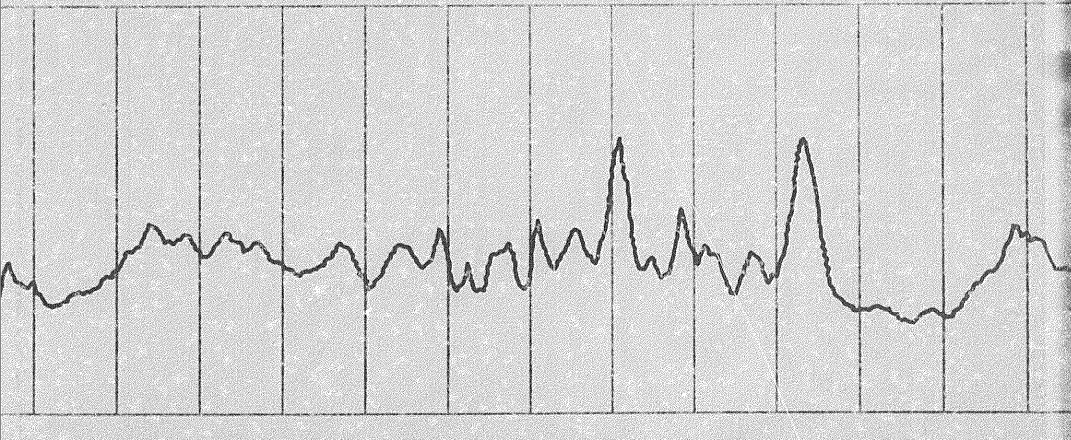
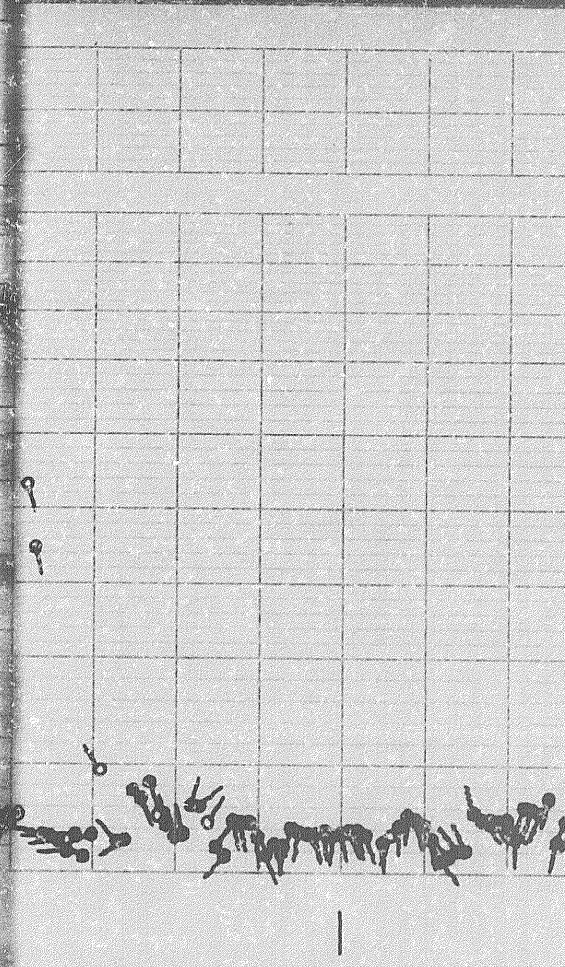
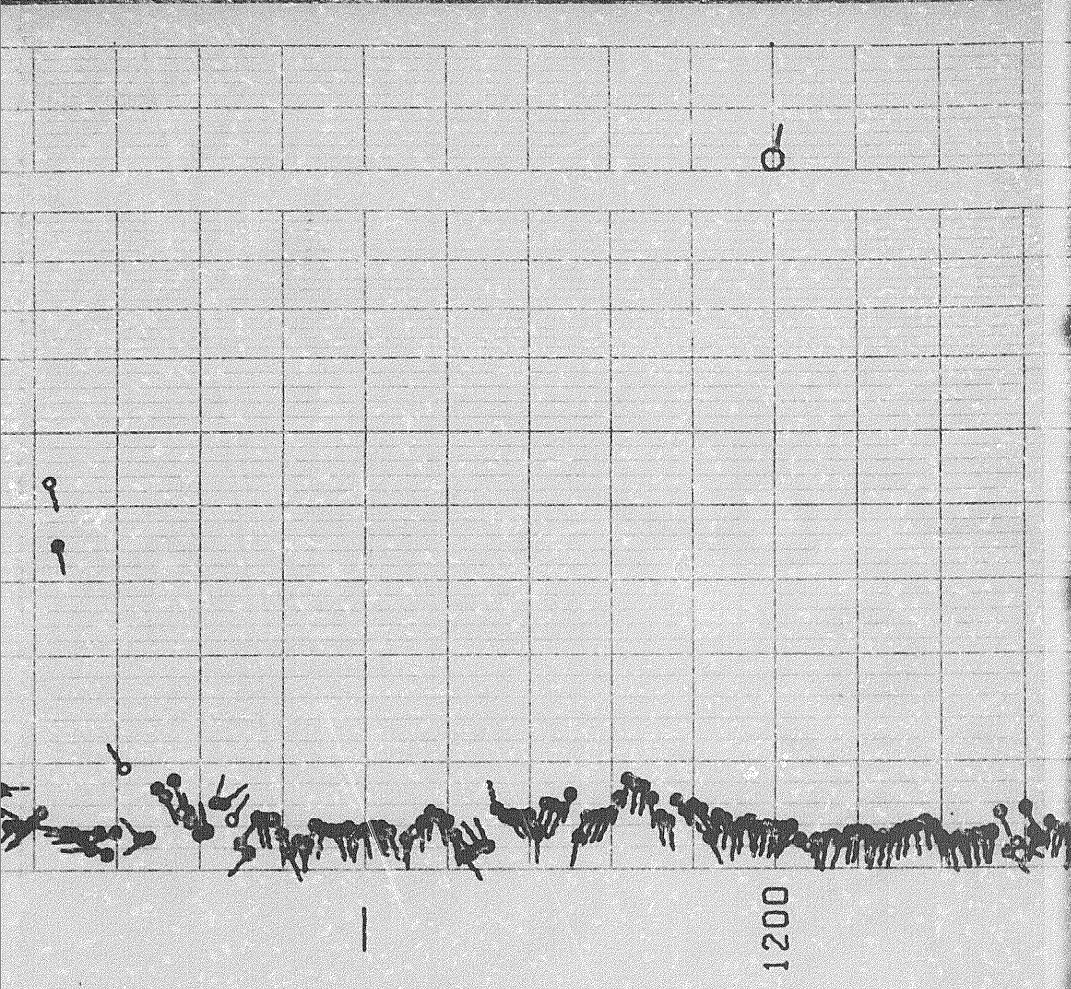
900

1000



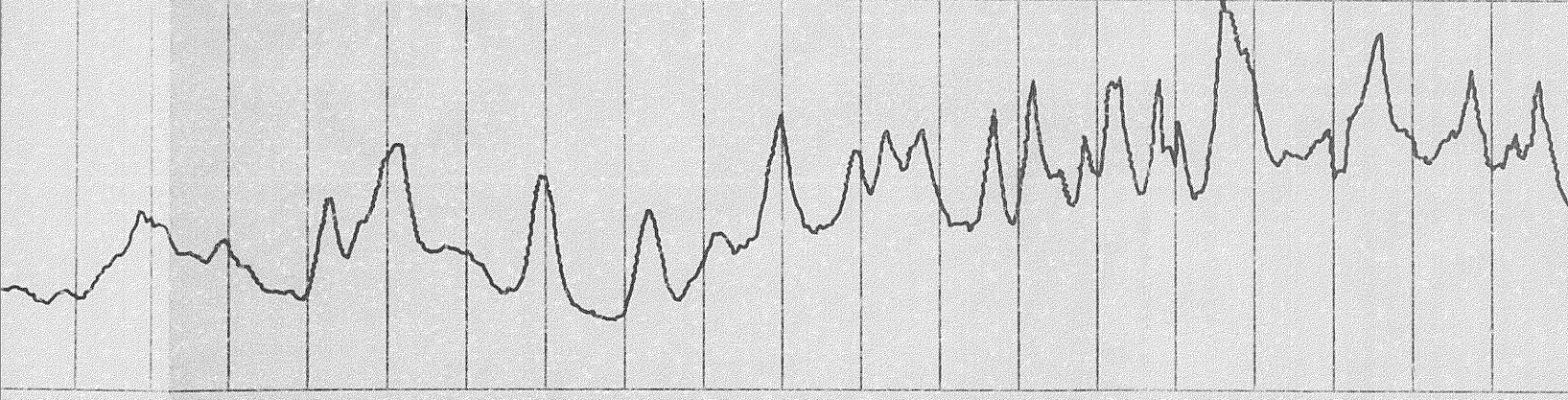
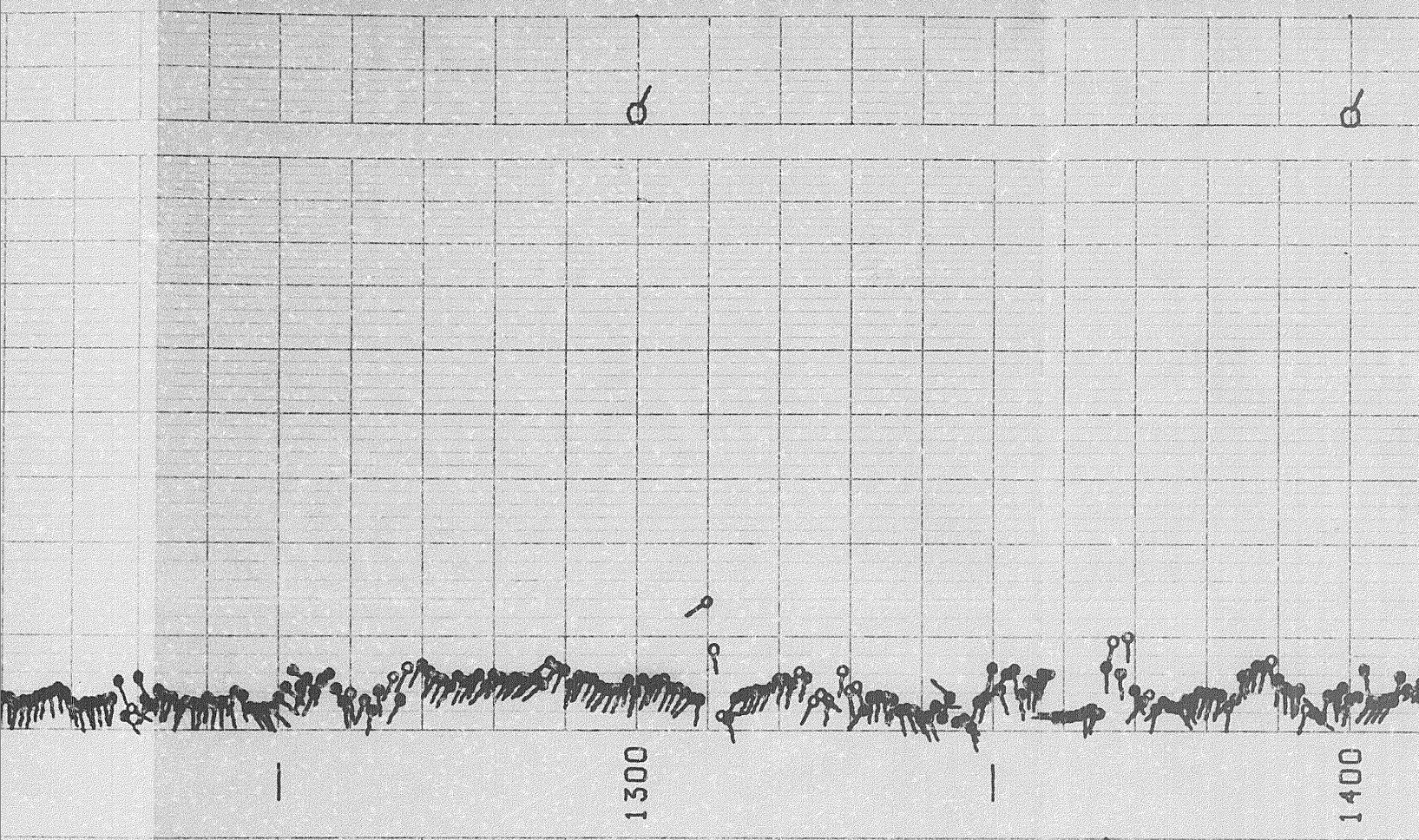
DOT TWO DECIMAL 500 IN GRID

4 OF



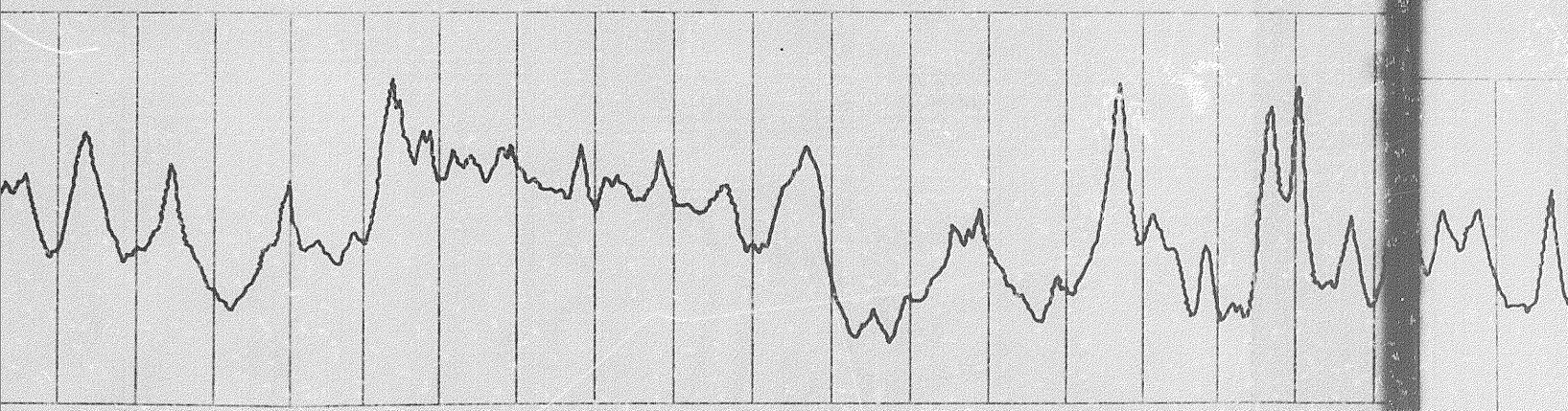
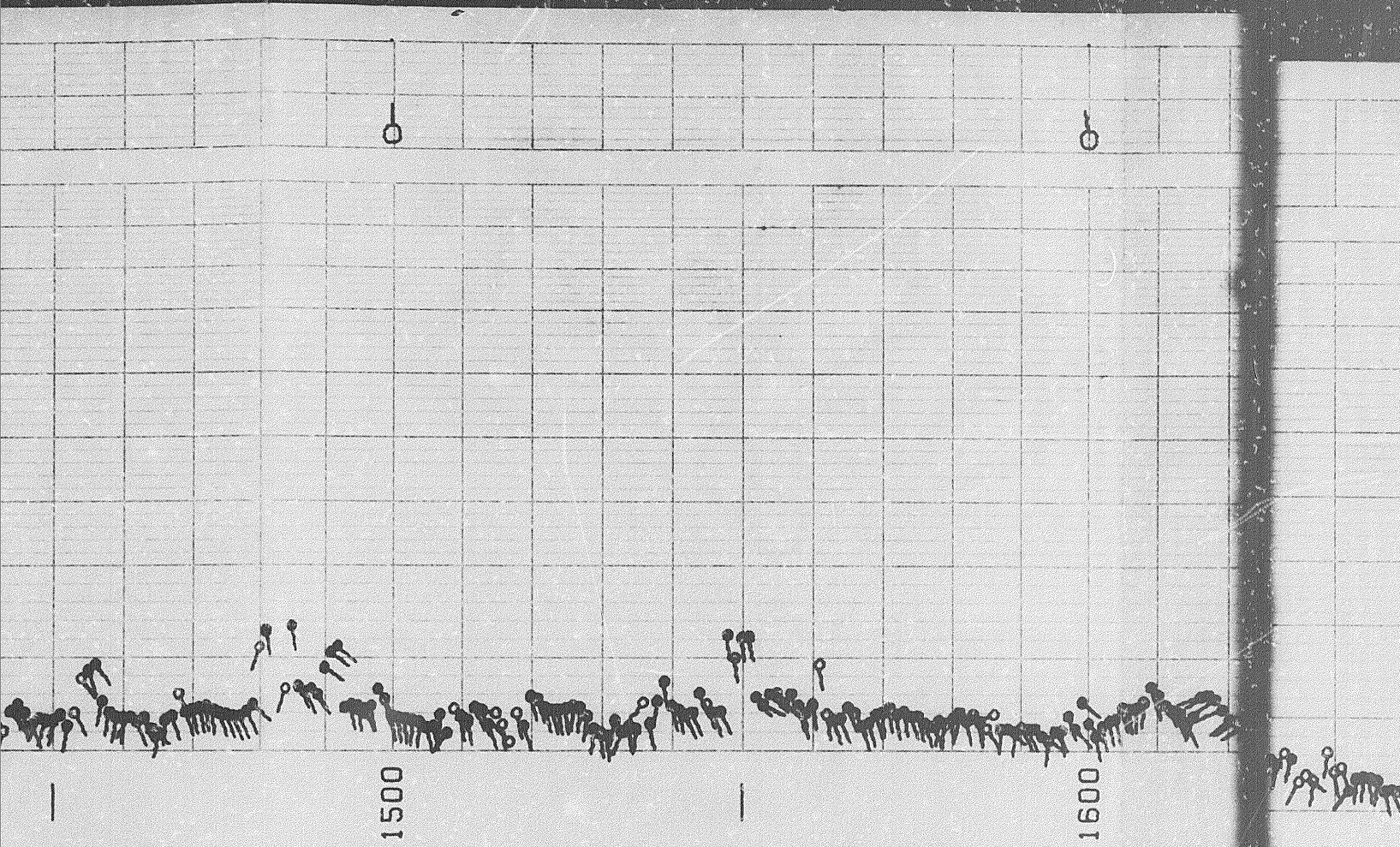
FOOT DUO-DECIMAL 500 IN GRID

FOOT DUO-DECIMAL 500 IN GRID

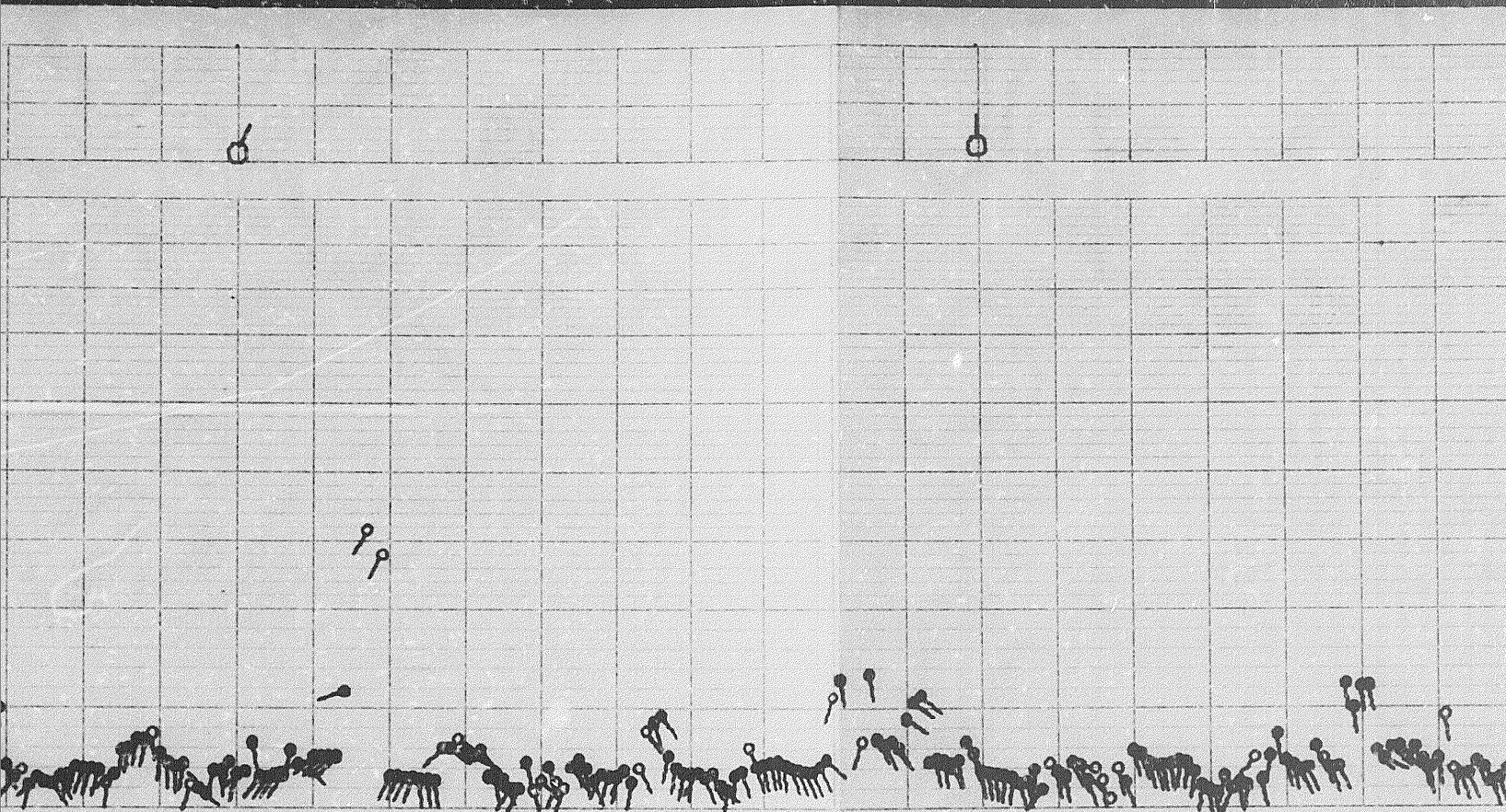


FOOT, DUO-DECIMAL, .500 IN. GRID

50%

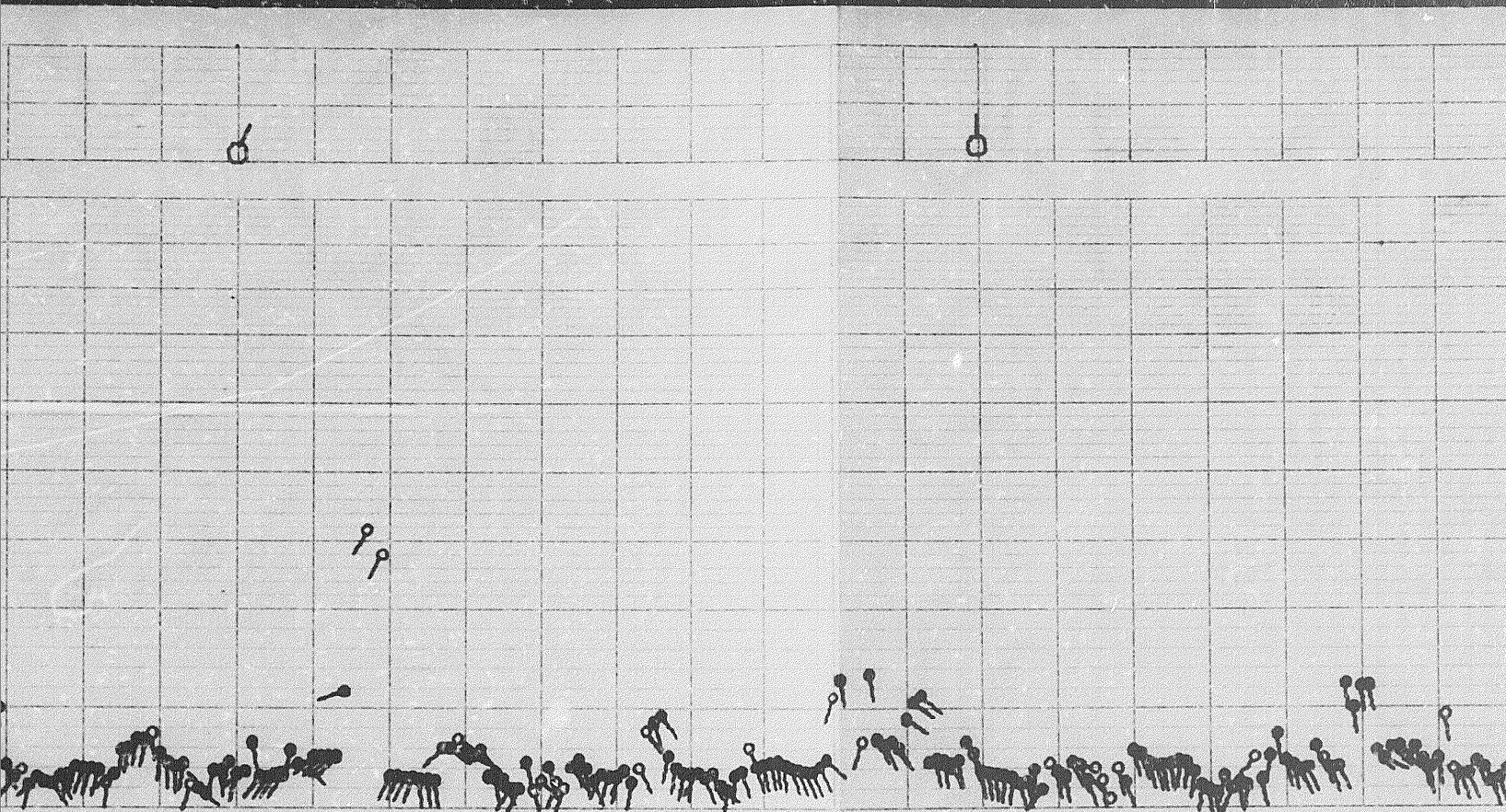


FOOT DUO-DECIM



1400

1500



1400

1500