260

19-186

SCHLUMBERGER

POTECLINOMETER
CONTINUOUS DIPMETER
(COMPUTED)

COUNTY GRAY'S HARBOR
FIELD or LOCATION OCEAN CITY AREA
WELL SHELL SAMPSON JOHNS OCA 2-15
COMPANY SHELL OIL COMPANY

COMPANY SHELL OIL COMPANY CONFIDENTIAL

WELL SHELL SAMPSON JOHNS OCA 2-15

FIELD OCEAN CITY AREA

COUNTY GRAY'S HARBOR STATE WASHINGTON

LOCATION 1301.2'W OF EAST LINE
1237.0'N OF SOUTH LINE
JOHNS ET AL LEASE
Sec. 15 Twp. 18N Rge. 12W

Other Services:
I-ES, FDC, BHC, ST

Permanent Datum: GL, Elev. 12.7
Log Measured From KB, 12 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 24.7
D.F.
G.L. 12.7

Date	5-2-70			
Run No.	TWO			
Depth—Driller	2390			
Depth—Logger	2395			
Btm. Log Interval	2395			
Top Log Interval	1230			
Casing—Driller	1230 @	@	@	@
Casing—Logger	1230			
Bit Size	6 1/8			
Type Fluid in Hole	FGM			
Dens. / Visc.	8.5 1/2 / 47			
pH / Fluid Loss	9.4 / 8.2 ml	ml	ml	ml
Source of Sample	-			
R_m @ Meas. Temp.	2.99 @ 60 °F	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	- @ °F	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	- @ °F	@ °F	@ °F	@ °F
Source: R_{mf} R_{mc}	-			
R_m @ BHT	2.2 @ 88 °F	@ °F	@ °F	@ °F
Time Since Circ.	-			
Max. Rec. Temp.	88 °F	°F	°F	°F
Equip. / Location	3716 / SAC			
Recorded By	WHITE			
Witnessed By	GAUSE			

FOLD HERE

The well name, location and borehole reference data were furnished by the customer.

Run No.	1	2	3	4
Tool Type	4ARMHDT			
DCM No.	HDM-D-792E			
Magnetic Declination	22°E			
Analog Panel No.				
Digital Panel No.	DDR-C-713			
Correlated By	UNIV1108			
Computed By	UNIV1108			
Plotted By	CALCOMP			
Correlation Interval	4 Step Length 4 Search Angle 60°			
Digital Computation No.	LA05010			
Remarks:	QUALITY INDICATIONS ARE AS FOLLOWS: CIRCLE-EXCELLENT SQUARE-GOOD DIAMOND-FAIR			

Changes in Mud Type or Additional Samples			
Date / Sample No.			
Depth—Driller			
Type Fluid in Hole			
Dens. / Visc.			
pH / Fluid Loss		ml	
Source of Sample			
R_m @ Meas. Temp.	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	@ °F	@ °F	@ °F
Source: R_{mf} / R_{mc}			
R_m @ BHT	@ °F	@ °F	@ °F
R_{mf} @ BHT	@ °F	@ °F	@ °F
R_{mc} @ BHT	@ °F	@ °F	@ °F

"Any directional computations made from the dipmeter log 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 wall drift. Therefore, we do not and cannot guarantee the accuracy of such directional computations, and we shall not, except in the case of willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained that may result from any such computations."

SWS-722-D

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

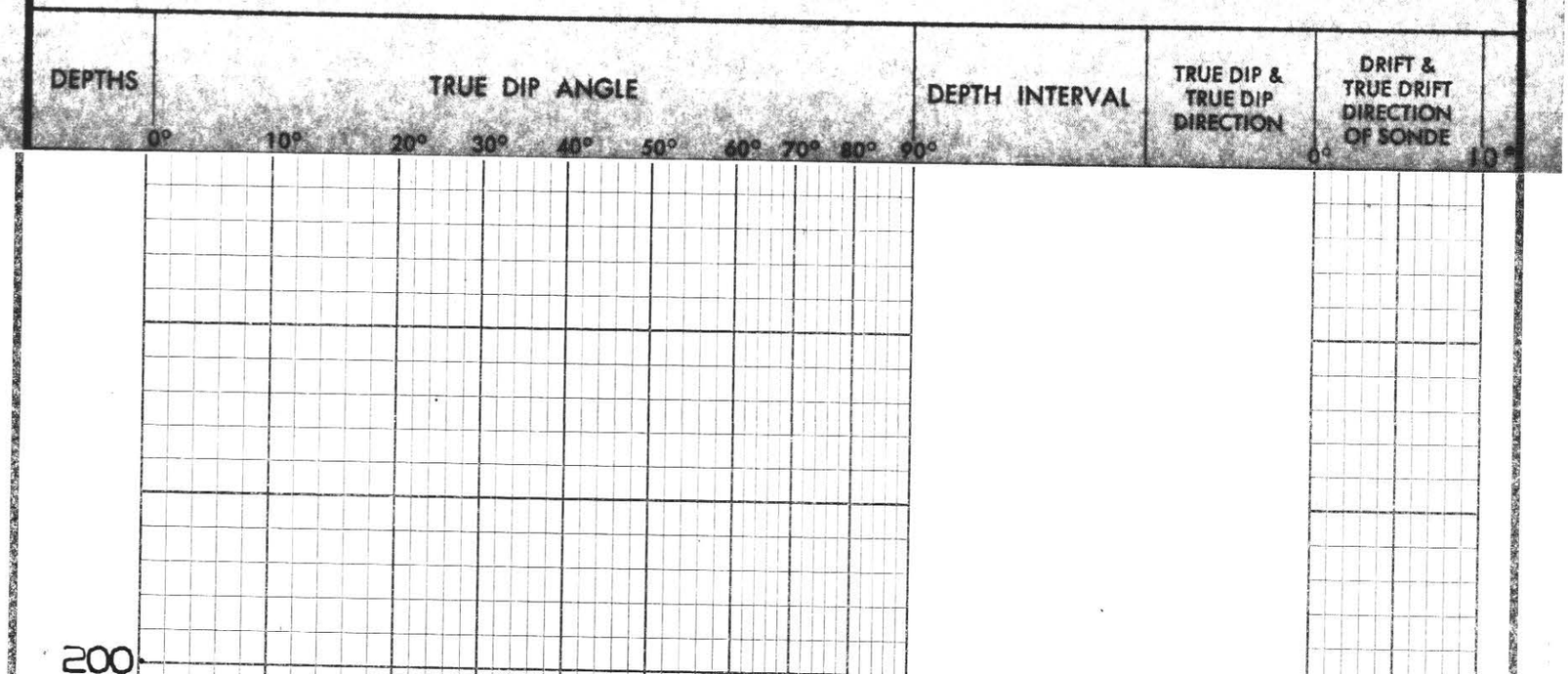
DIP ANGLES (degrees)	VERTICAL DISPLACEMENT FOR HORIZONTAL DISTANCES OF 100′	1000′	1 mile (5280′)
1	1.75	17.5	92.2
2	3.5	35.	184.
3	5.2	52.	277.
4	7.0	70.	369.
5	8.8	88.	462.
6	10.5	105.	555.
7	12.3	123.	648.
8	14.1	141.	742.
9	15.8	158.	836.
10	17.6	176.	931.
11	19.4	194.	1026.
12	21.3	213.	1122.
13	23.1	231.	1219.
14	24.9	249.	1316.
15	26.8	268.	1415.
16	28.7	287.	1514.
17	30.6	306.	1614.
18	32.5	325.	1716.

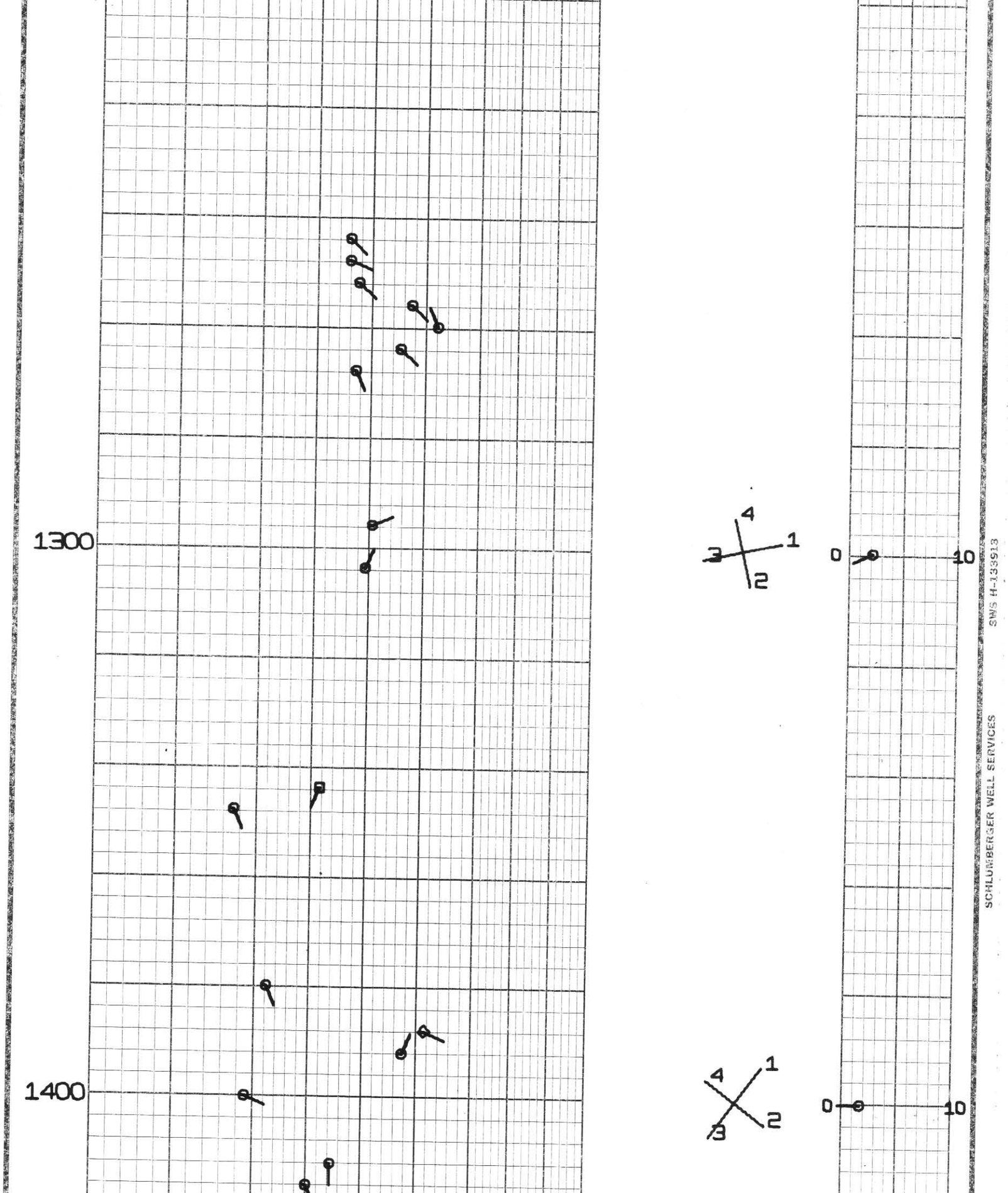
DIP ANGLES (degrees)	VERTICAL DISPLACEMENT FOR HORIZONTAL DISTANCES OF 100′	1000′	1 mile (5280′)
19	34.4	344.	1818.
20	36.4	364.	1922.
21	38.4	384.	2027.
22	40.4	404.	2133.
23	42.5	425.	2241.
24	44.5	445.	2351.
25	46.6	466.	2462.
30	57.7	577.	3048.
35	70.0	700.	3697.
40	83.9	839.	4430.
45	100.0	1000.	5280.
50	119.2	1192.	6293.
55	142.8	1428.	7540.
60	173.2	1732.	9145.
65	214.4	2144.	11323.
70	274.8	2748.	14507.
75	373.2	3732.	19705.
80	567.1	5671.	29945.

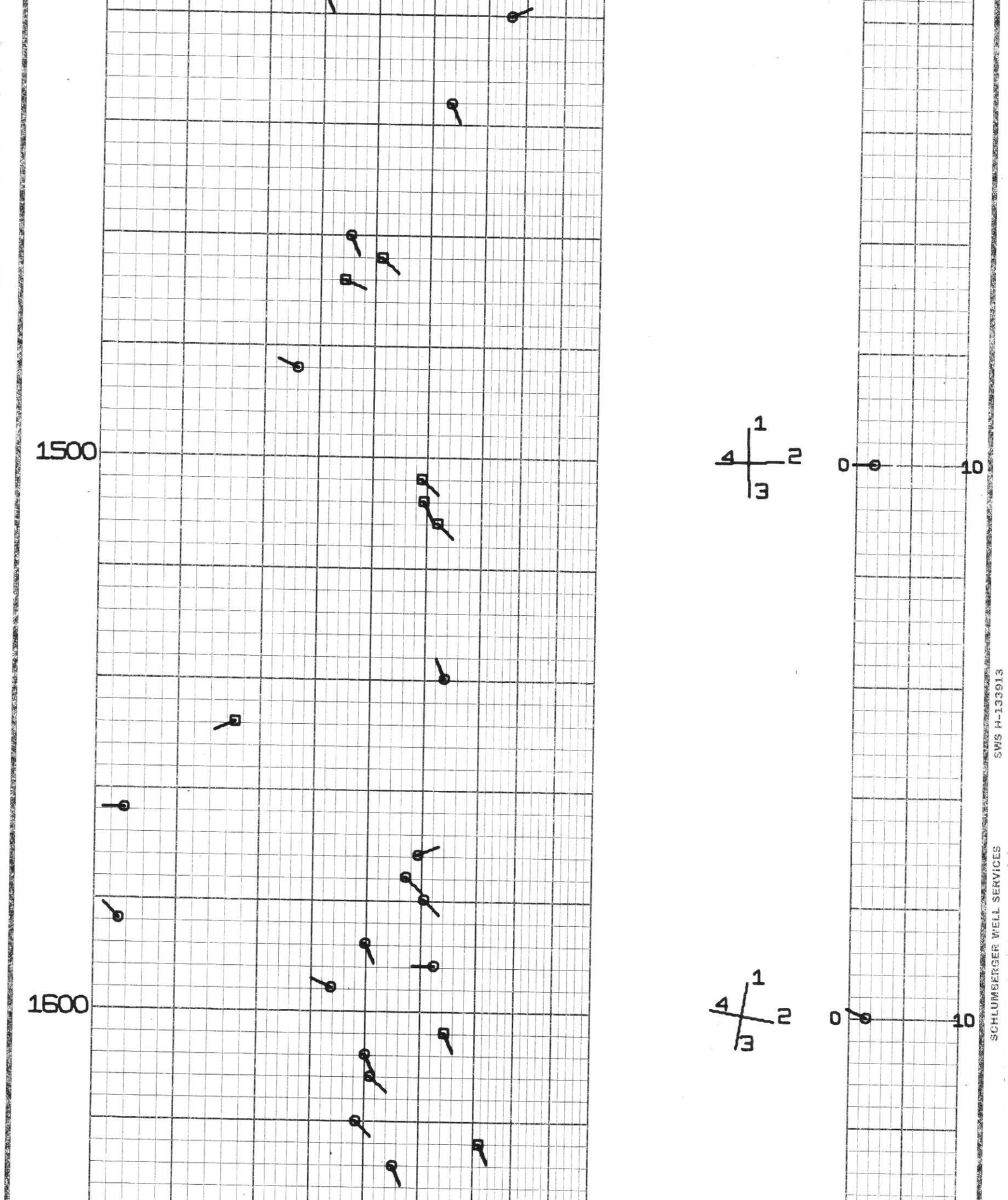
To obtain vertical displacements corresponding to multiples of hundreds feet, thousands of feet or miles, multiply the number found in the table by the number of hundreds, thousands or miles.

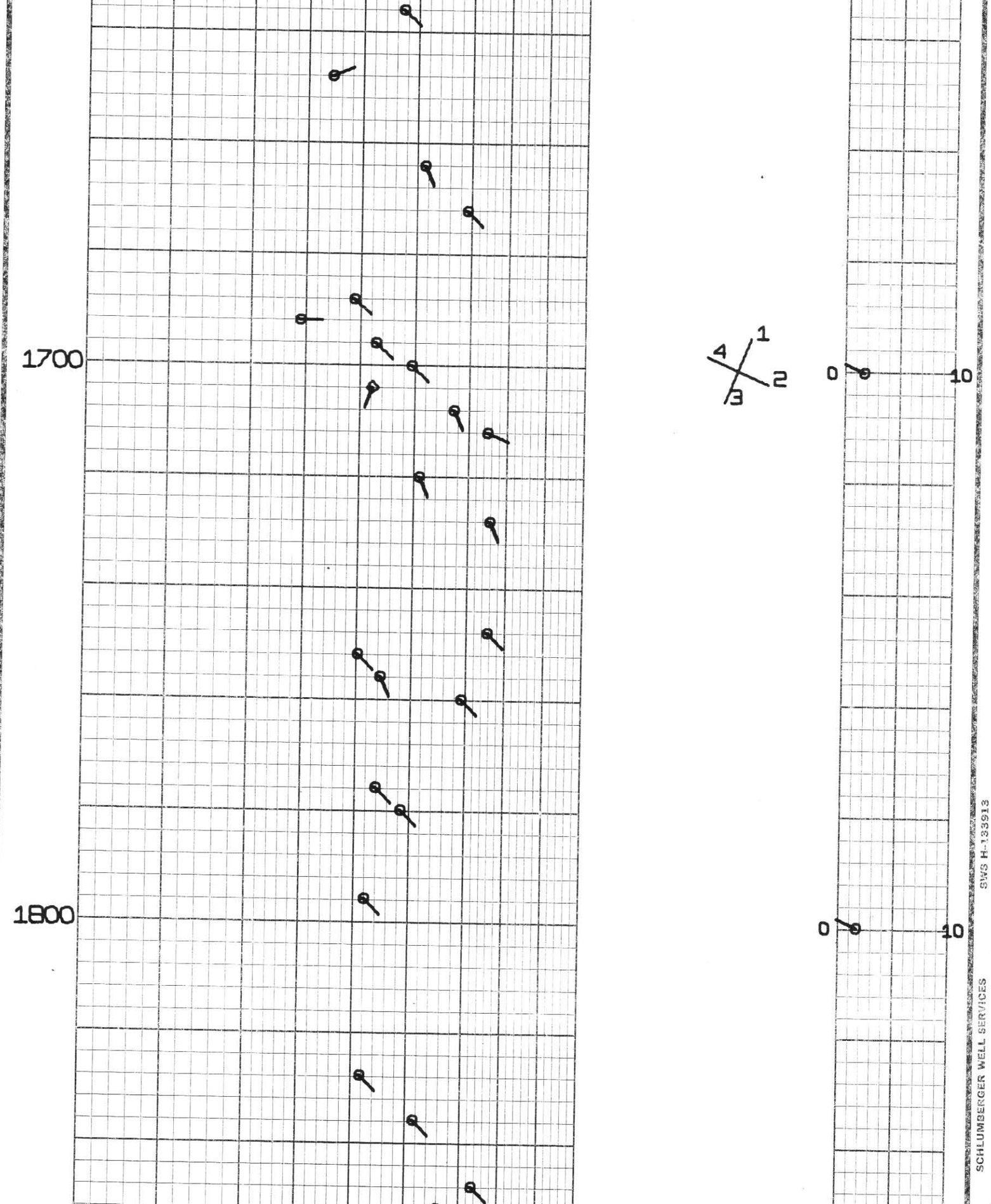
Example: The formation dip is 16 degrees. The vertical displacement occurring at a spot 660 feet away from the well is desired. The table shows 28.7 feet per 100 feet for 16° dip. Therefore 28.7 x 6.60 = 189.42, or 189. feet.

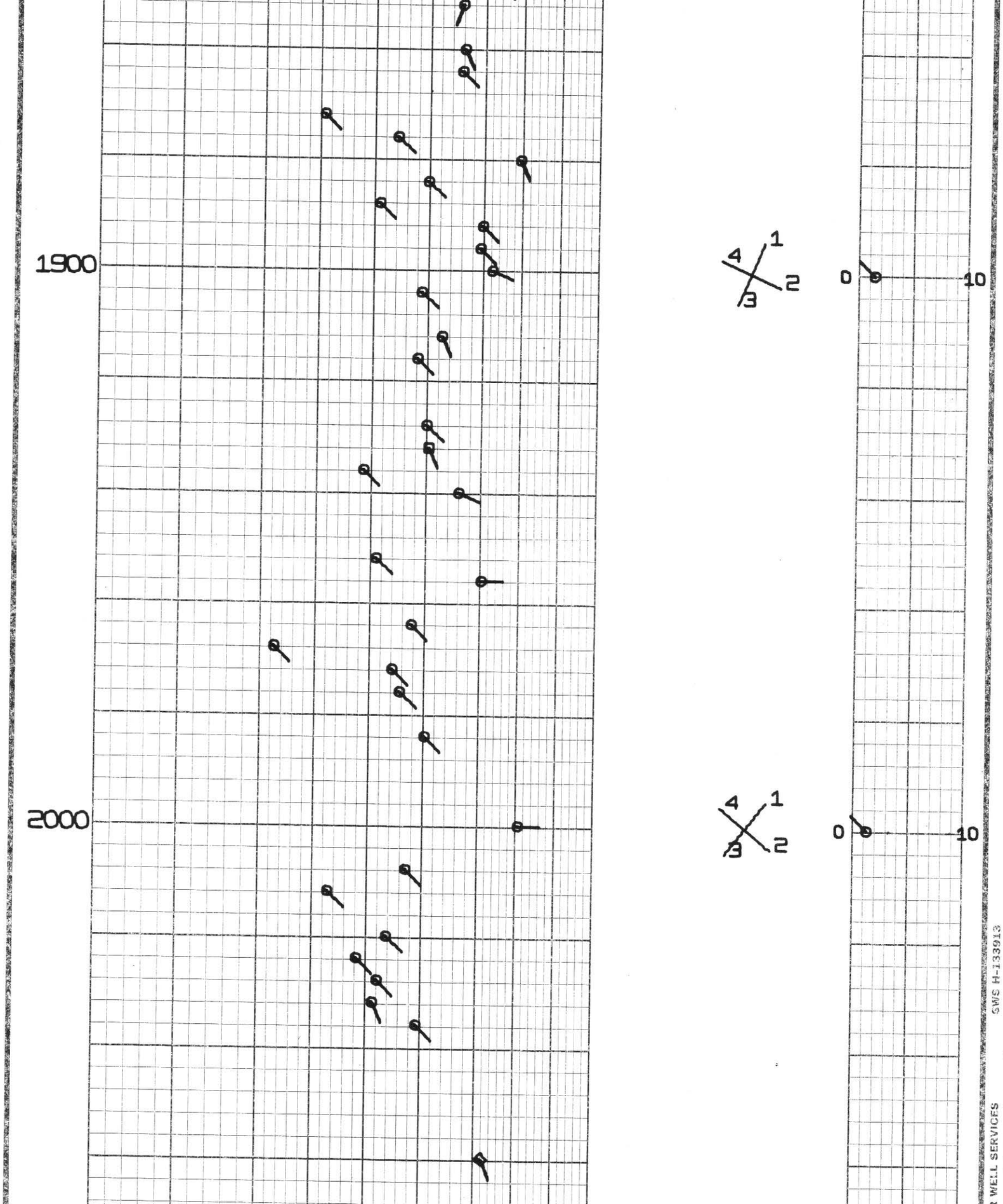
GRAPHIC PRESENTATION

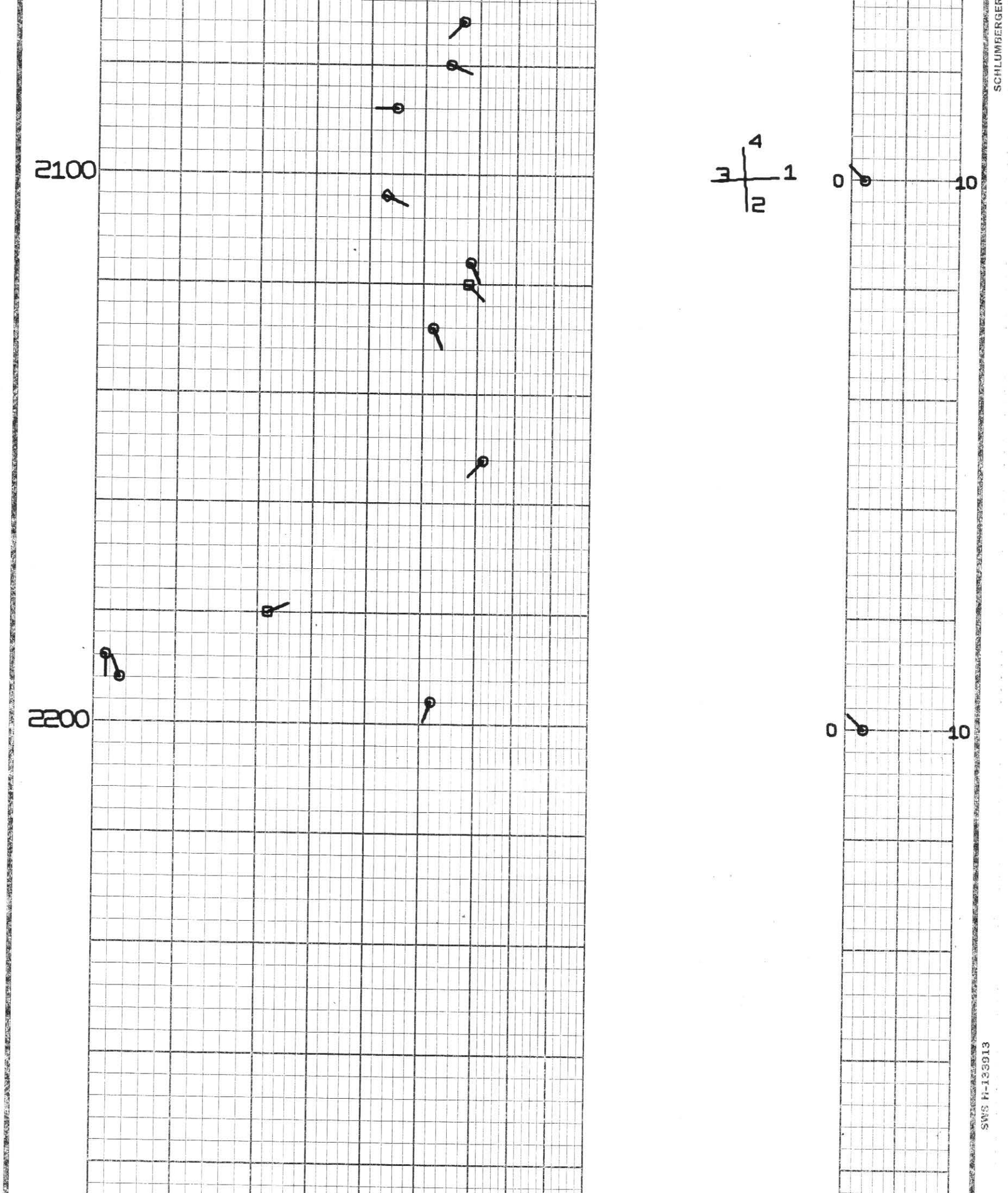


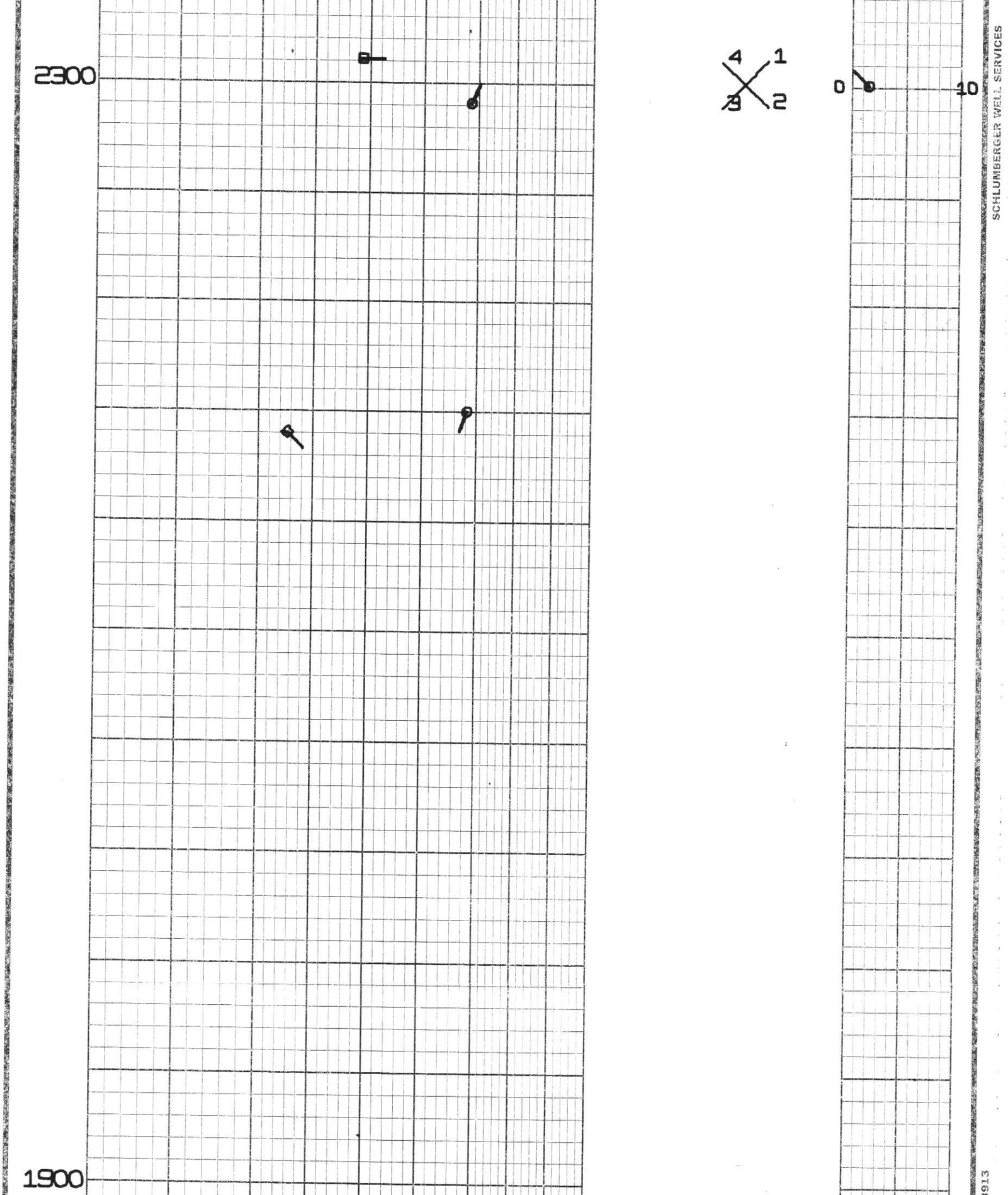

1300
1400
4
1
3
2
0
10
4
1
3
2
0
10
SWS H-13913
SCHLUMBERGER WELL SERVICES

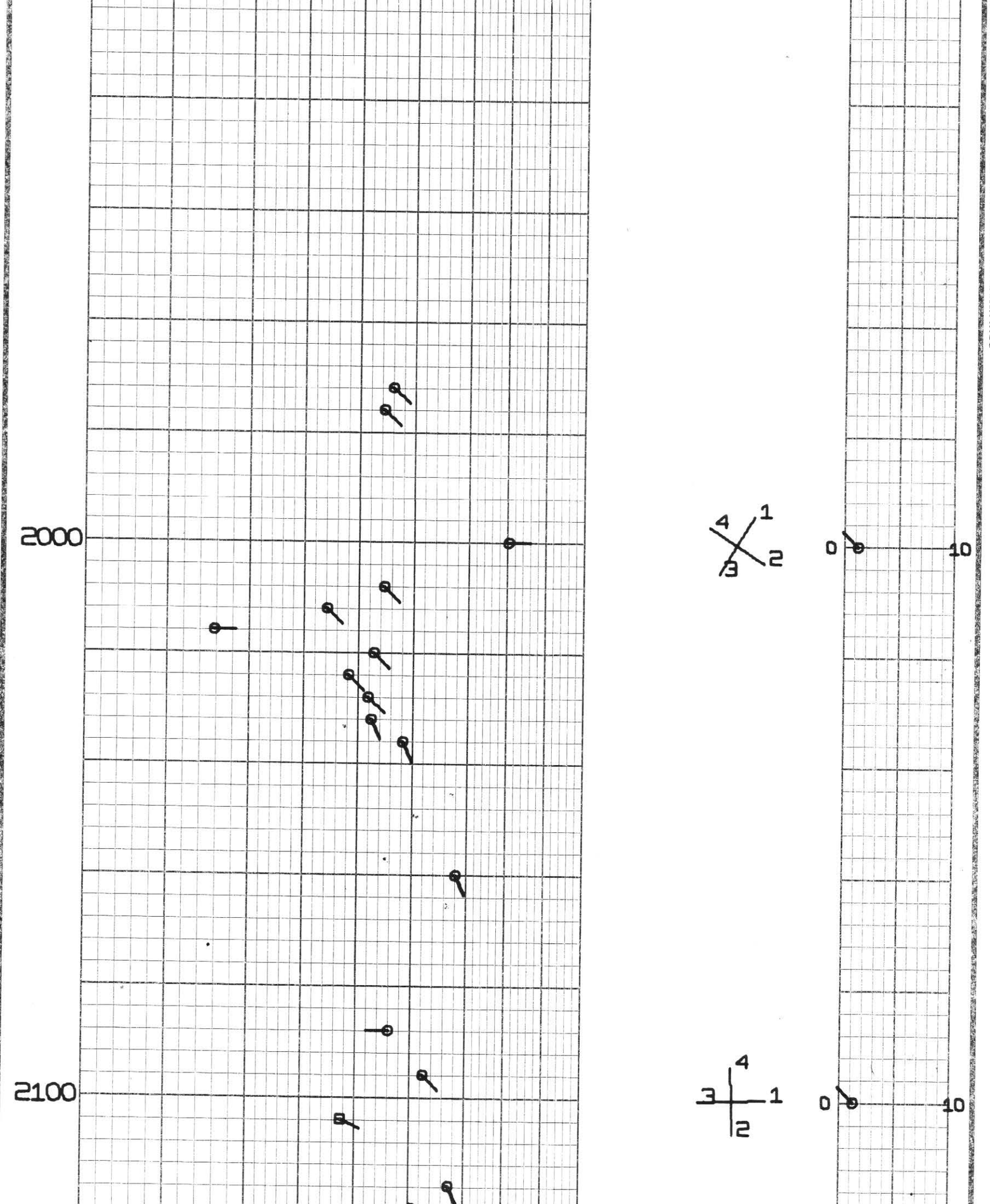

1500
1600
1
2
3
4
0
10
1
2
3
4
0
10
SWS H-133913
SCHLUMBERGER WELL SERVICES

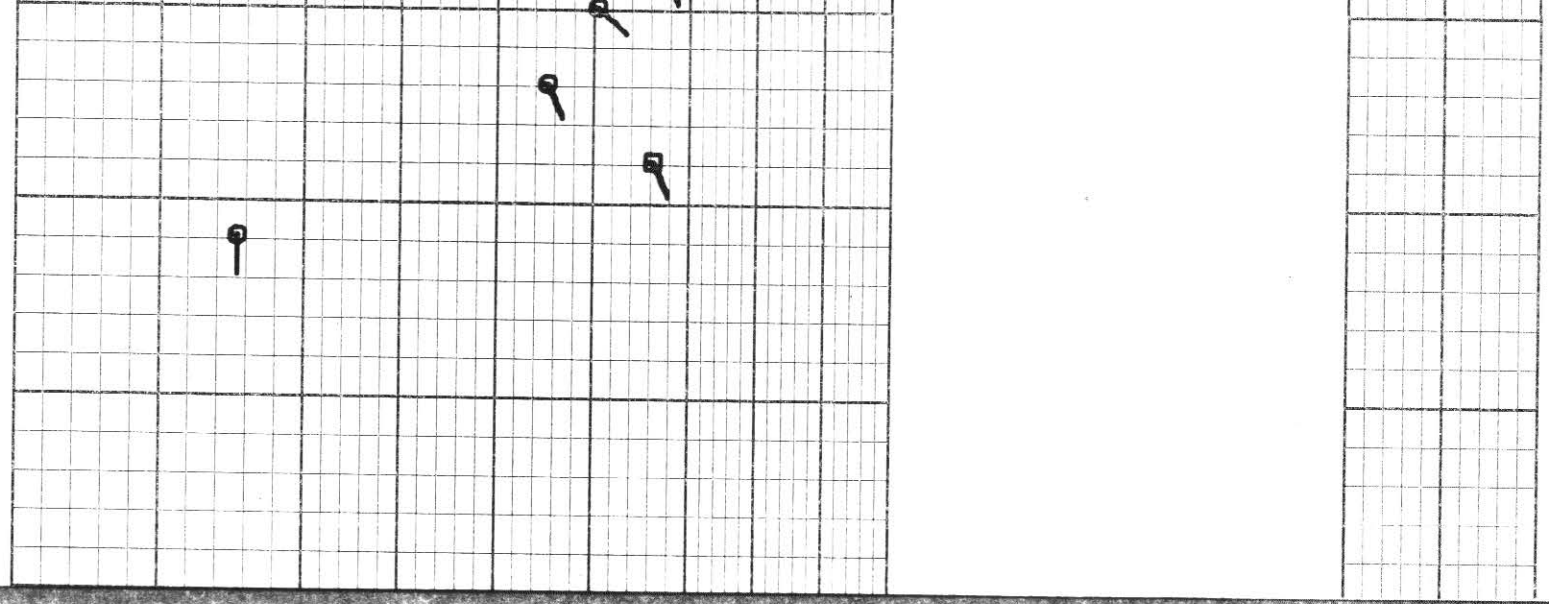

1700
1800
1
2
3
4
0
10
0
10
SWS H-133913
SCHLUMBERGER WELL SERVICES


1900
2000
4
1
2
3
0
10
4
1
2
3
0
10
SWS H-133913
WELL SERVICES


2100
2200
4
3
1
2
0
10
0
10
SCHLUMBERGER
SWS H-133913


2300
1900
4
1
3
2
0
10
SCHLUMBERGER WELL SERVICES
913


2000
2100
4
1
2
3
0
10
4
3
1
2
0
10
SCHLUMBERGER WELL SERVICES
SWS H-132



SWS H-135913

SERVICES

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

COMPANY SHELL OIL COMPANY

WELL SHELL SAMPSON JOHNS OCA 2-15,

FIELD OCEAN CITY AREA

COUNTY GRAY'S HARBOR STATE WASHINGTON

SCHL. FR 2395
SCHL. TD 2395
DRLR TD 2390
Elev:
KB 24.7
DF
GL 12.7