

March 31, 2015

Mr. Allan Batka
United States Environmental Protection Agency
Region 5 (WU-16J)
77 West Jackson Blvd.
Chicago, Illinois 60604

Re: EGT Monthly Report (in conformance with MI-163-1W-C010 & MI-163-1W-C011)

Dear Mr. Batka:

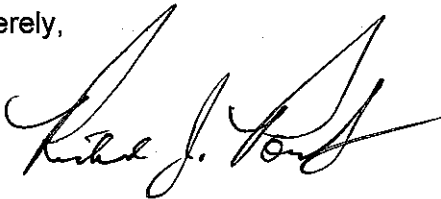
Environmental Geo-Technologies, LLC ("EGT") hereby timely submits its sixteenth Monthly Report in conformance with the requirements of its two EPA UIC permits (#s MI-163-1W-C010 & MI-163-1W-C011).

EGT is providing all of the attached information in the same sequence as required by both subject permits, i.e. Part II.D.1 (a – i), Part III, Attachment A, and Part III, Attachment E.G.2 & E.I.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

We trust that you find this report satisfactory, however, if you have any questions or comments, please feel free to contact us.

Sincerely,



Richard J. Powals, P.E.
Chief Operating Officer

cc: J. Frost (EGT), T. Athans (EGT)

att.

rjp033115/EGTEPAMonthlyReport-February 2015

AVERAGE INJECTION RATE

Calculation of Average Injection Rate

CURRENT REPORTING YEAR 2015

CURRENT REPORTING MONTH FEBRUARY

Date (month, year) of the first injection into either well at the Citrin Road Facility

NOVEMBER 2013

CURRENT MONTH (all volumes in gallons)

	Injected Waste	Injected Non-Waste	Total injected
MI-163-1W-C010, Well #1-12			
Current Month	108,256	0	108,256
Since facility first injected			1,198,176
MI-163-1W-C011, Well #2-12			
Current Month	18,957	0	18,957
Since facility first injected			1,022,186
		Lifetime Combined	2,220,362

Conversion factors

365.25 days per year ÷ 12 months per year = 30.4375 days per month

30.4375 days per month × 1440 minutes per day = 43,830 minutes per month

Calculations

Whole number of months of injection 16

$$\begin{aligned} & \underline{16} \text{ lifetime number of months of injection} \times 43,830 \text{ minutes/month} \\ & = \underline{701,280} \text{ minutes of injection} \end{aligned}$$

$$\begin{aligned} \text{Lifetime combined injected volume } & \underline{2,220,362} \div \underline{701,280} \text{ minutes of injection} \\ & = \underline{3.2} \text{ gpm average injection rate} \end{aligned}$$

WELL 1 DATA

WELL 01 Monthly Data

Date	Min Injection Pressure (PSIG)	Max Injection Pressure (PSIG)	Min Sight Glass Level (in)	Max Sight Glass Level (in)	Min Annulus Pressure (PSIG)	Max Annulus Pressure (PSIG)	Min Injectate pH	Max Injectate pH	Min Flow Rate (GPM)	Max Flow Rate (GPM)	Min Differential Pressure (PSIG)	Max Differential Pressure (PSIG)
2/1/2015	0.0	0.0	23.0	23.0	330.0	330.0	NI	NI	0.0	0.0	330.0	330.0
2/2/2015	0.0	0.0	23.0	23.0	330.0	330.0	NI	NI	0.0	0.0	330.0	330.0
2/3/2015	0.0	690.0	21.2	23.0	216.0	1044.0	1.0	1.0	0.0	92.0	216.0	300.0
2/4/2015	0.0	720.0	22.0	23.0	198.0	990.0	1.2	3.3	0.0	140.0	198.0	315.0
2/5/2015	0.0	0.0	23.0	23.0	315.0	324.0	1.2	1.4	0.0	0.0	315.0	324.0
2/6/2015	0.0	717.0	21.0	23.0	255.0	990.0	0.0	2.7	0.0	148.0	258.0	330.0
2/7/2015	60.0	60.0	22.6	22.6	390.0	405.0	2.4	2.7	0.0	0.0	330.0	345.0
2/8/2015	60.0	60.0	22.6	22.6	402.0	402.0	2.4	2.4	0.0	0.0	342.0	342.0
2/9/2015	0.0	690.0	21.0	23.5	198.0	1068.0	0.9	7.6	0.0	120.0	198.0	336.0
2/10/2015	0.0	720.0	21.7	23.2	216.0	1020.0	1.1	7.6	0.0	132.0	216.0	300.0
2/11/2015	0.0	0.0	23.0	23.0	270.0	270.0	1.7	1.7	0.0	0.0	270.0	270.0
2/12/2015	0.0	0.0	23.0	23.0	270.0	270.0	NI	NI	0.0	0.0	270.0	270.0
2/13/2015	0.0	0.0	23.0	23.0	270.0	270.0	0.9	0.9	0.0	0.0	270.0	270.0
2/14/2015	0.0	0.0	23.0	23.0	270.0	270.0	NI	NI	0.0	0.0	270.0	270.0
2/15/2015	0.0	0.0	23.0	23.0	270.0	270.0	NI	NI	0.0	0.0	270.0	270.0
2/16/2015	0.0	0.0	23.0	23.0	264.0	270.0	0.7	0.7	0.0	0.0	264.0	270.0
2/17/2015	0.0	726.0	21.5	23.2	234.0	999.0	NI	NI	0.0	16.0	234.0	315.0
2/18/2015	0.0	690.0	22.0	23.0	270.0	1020.0	1.1	3.3	0.0	56.0	270.0	300.0
2/19/2015	30.0	30.0	23.0	23.0	300.0	300.0	2.4	2.4	0.0	0.0	300.0	300.0
2/20/2015	0.0	720.0	21.0	23.0	246.0	1020.0	1.5	3.0	0.0	26.0	246.0	324.0
2/21/2015	0.0	0.0	23.0	23.0	300.0	300.0	2.4	2.7	0.0	0.0	300.0	300.0
2/22/2015	0.0	0.0	23.0	23.0	300.0	300.0	2.7	2.9	0.0	0.0	300.0	300.0
2/23/2015	0.0	0.0	23.0	23.0	330.0	330.0	2.9	3.6	0.0	0.0	300.0	312.0
2/24/2015	0.0	720.0	21.0	23.0	255.0	1020.0	3.6	5.9	0.0	34.0	255.0	300.0
2/25/2015	0.0	0.0	22.0	23.0	300.0	300.0	5.0	5.2	0.0	0.0	300.0	300.0
2/26/2015	0.0	714.0	22.0	23.0	243.0	960.0	4.5	11.1	0.0	34.0	243.0	360.0
2/27/2015	0.0	726.0	21.5	23.5	204.0	1023.0	5.8	9.4	0.0	62.0	204.0	312.0
2/28/2015	0.0	0.0	23.0	23.0	285.0	285.0	6.7	6.7	0.0	0.0	285.0	285.0

Circle Chart Index

Environmental Geo-Technologies, LLC 28470 Citrin Drive Romulus, MI 48174

Chart Recorder #1

Channel #1

Blue Pen - Well 1 Injection Pressure

Channel #2

Red Pen – Well 1 Annulus Pressure

Channel #3

Green Pen – Well 1 Flow Rate

Channel #4

Black Pen – Well 1 Annulus Tank Level

Chart Recorder #2

Channel #1

Blue Pen – Well 2 Injection Pressure

Channel #2

Red Pen – Well 2 Annulus Pressure

Channel #3

Green Pen – Well 2 Flow Rate

Channel #4

Black Pen – Well 2 Annulus Tank Level

Chart Recorder #3

Channel #1

Blue Pen – Injection pH Well 1 & 2

Channel #2

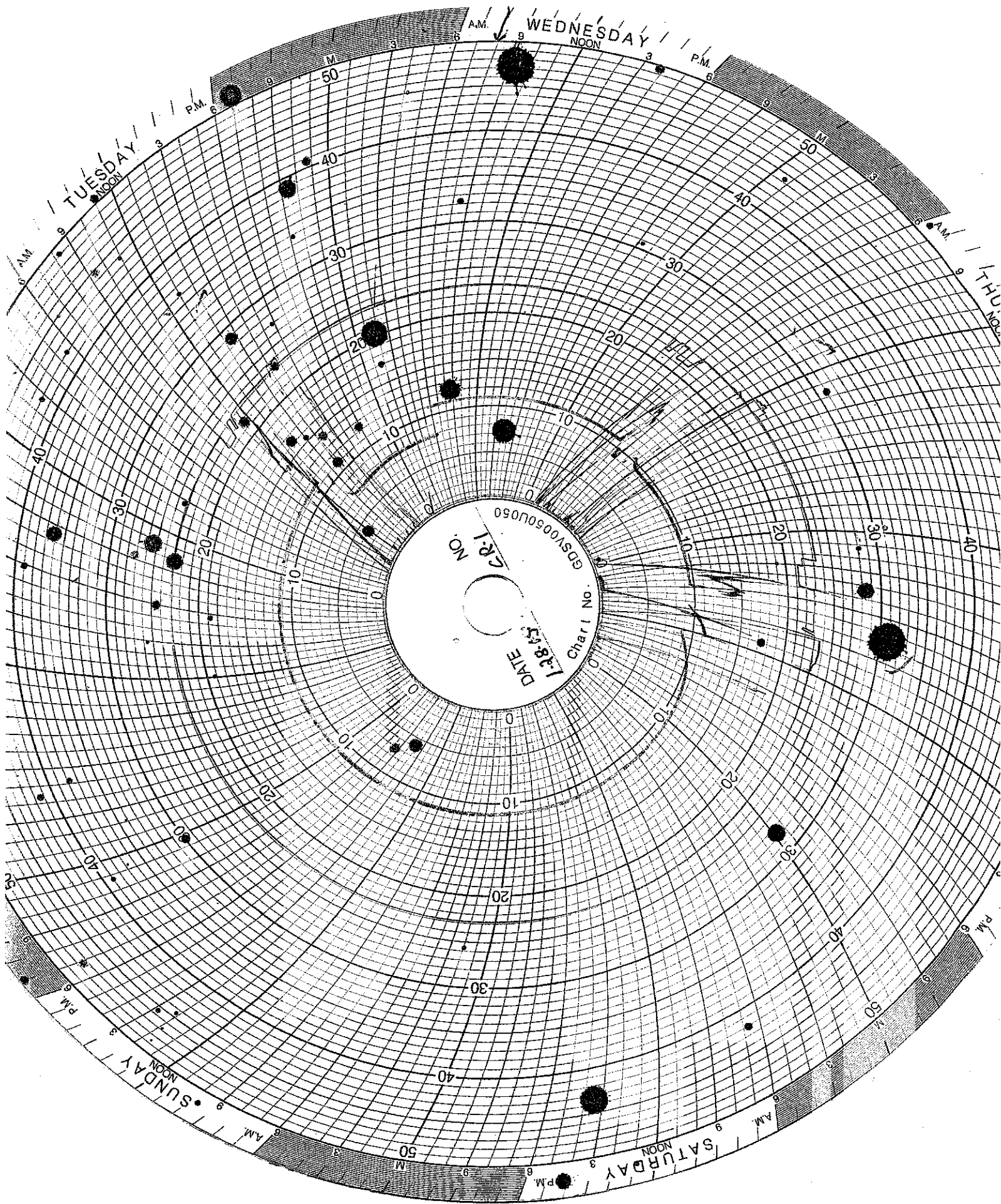
Red Pen – Well 1 Monthly Volume

Channel #3

Green Pen – Well 2 Monthly Volume

Channel #4

Black Pen - Temperature



TUESDAY
NOON
P.M.

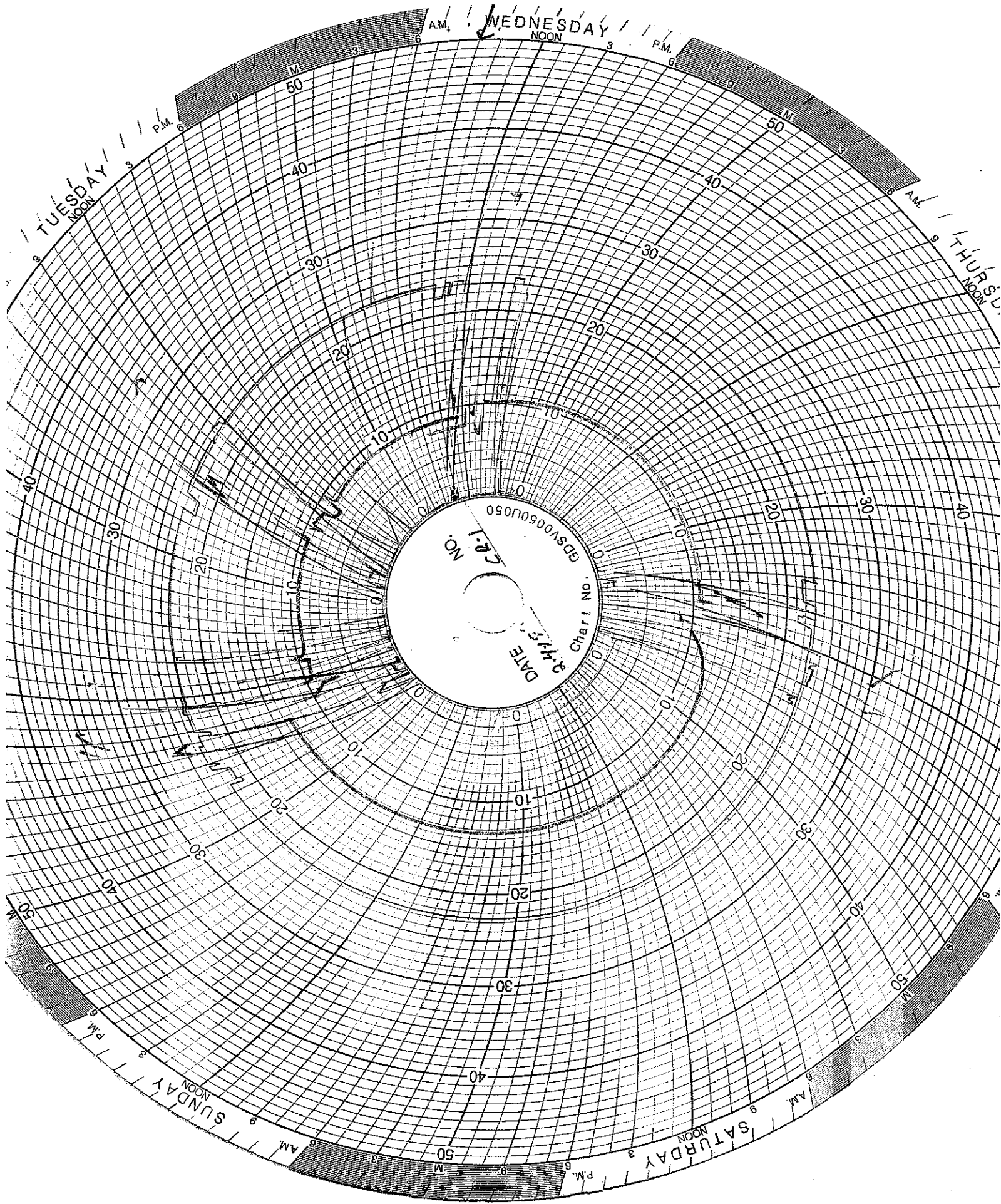
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NOON
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THURSDAY
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SUNDAY
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SATURDAY
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P.M.

DATE 1.28.53
Charl No 00000000000000000000
P.R. NO. 00000000000000000000



AM. WEDNESDAY NOON P.M.

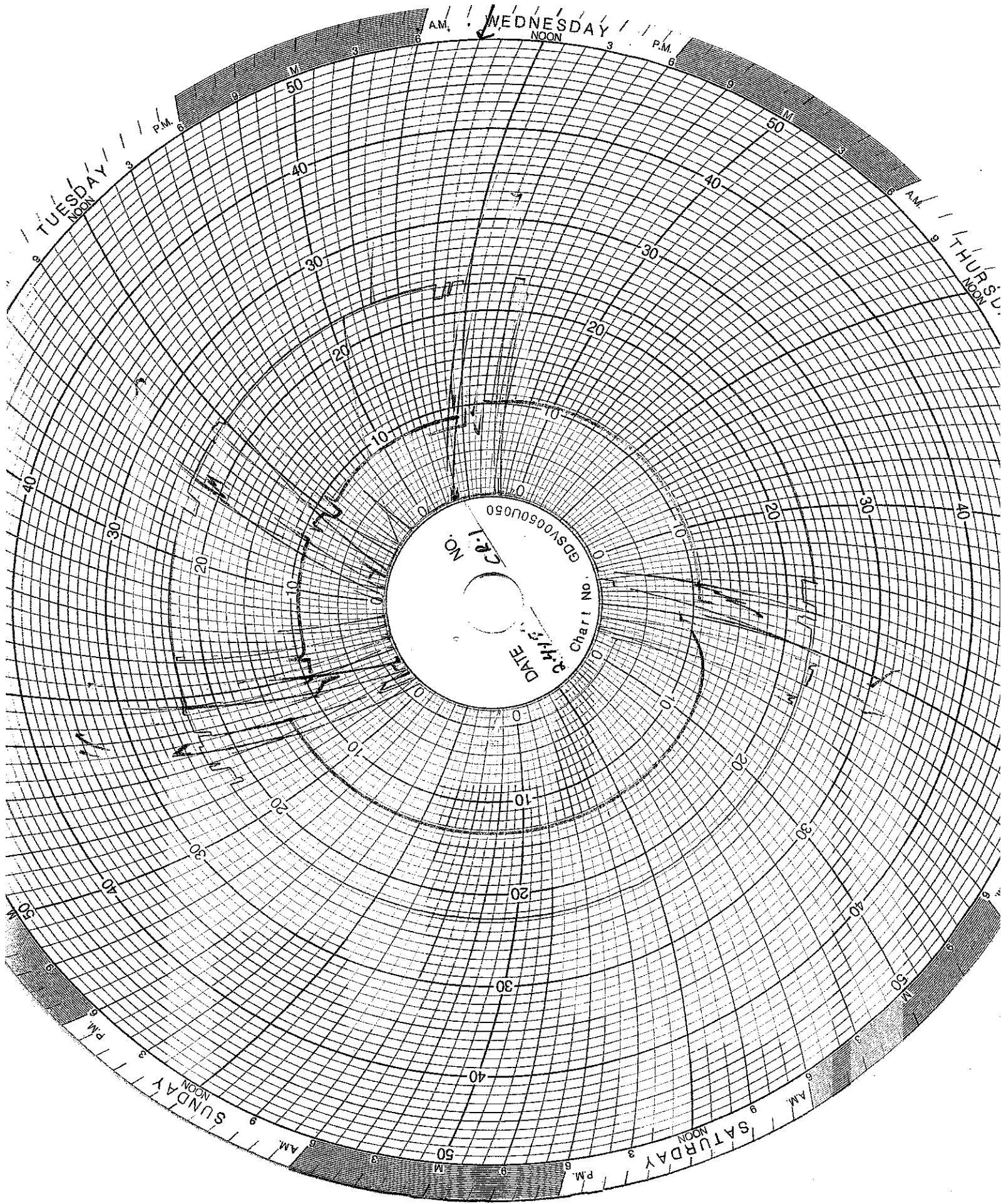
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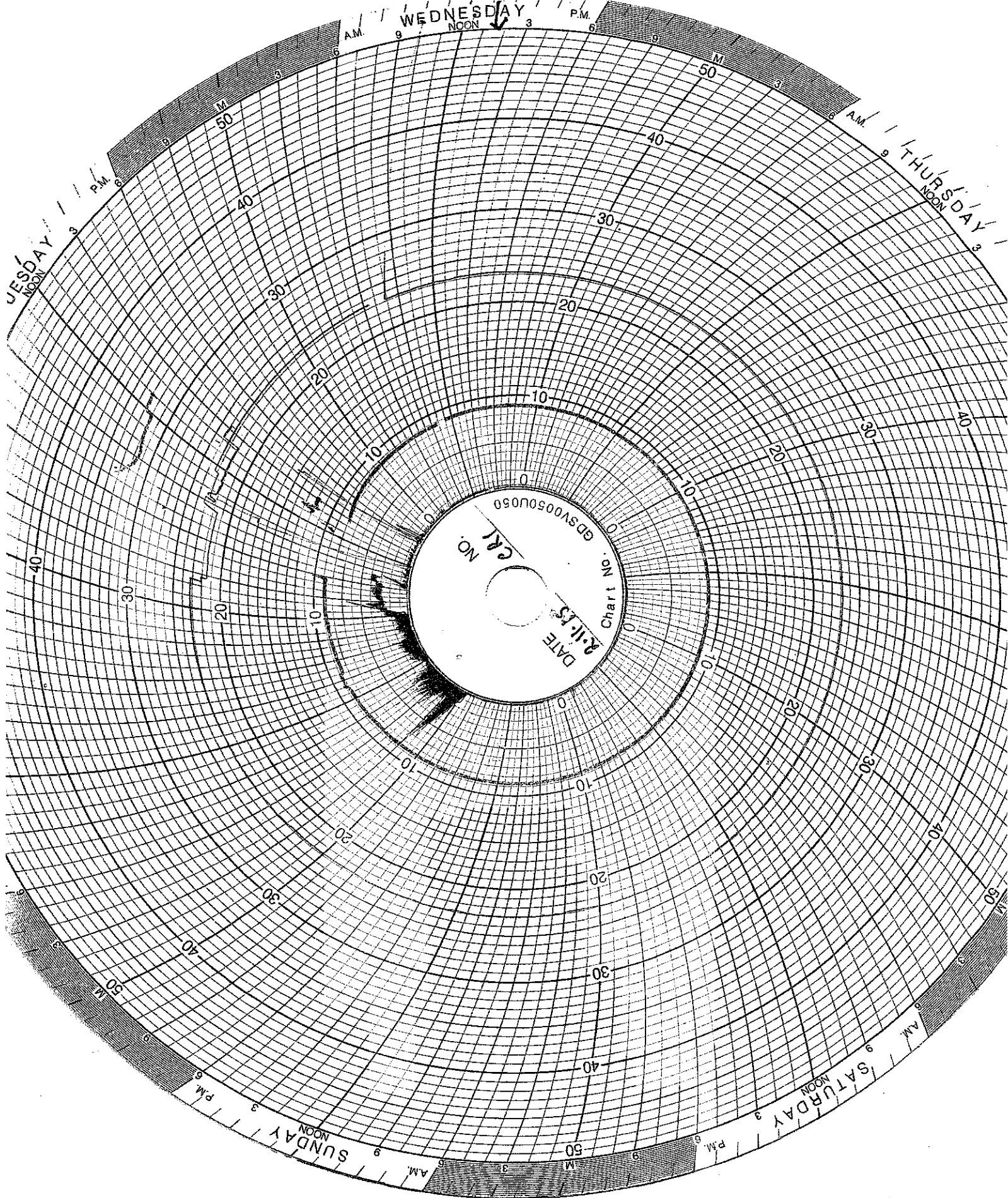
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SUNDAY NOON P.M.

SATURDAY NOON P.M.

DATE 2-11-51
Chart No. GDSV060050
CR. NO. 1





WEDNESDAY
NOON

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WEDNESDAY
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THURSDAY
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DATE 2-1-15
CR No.
Chart No. GDSV0050U060

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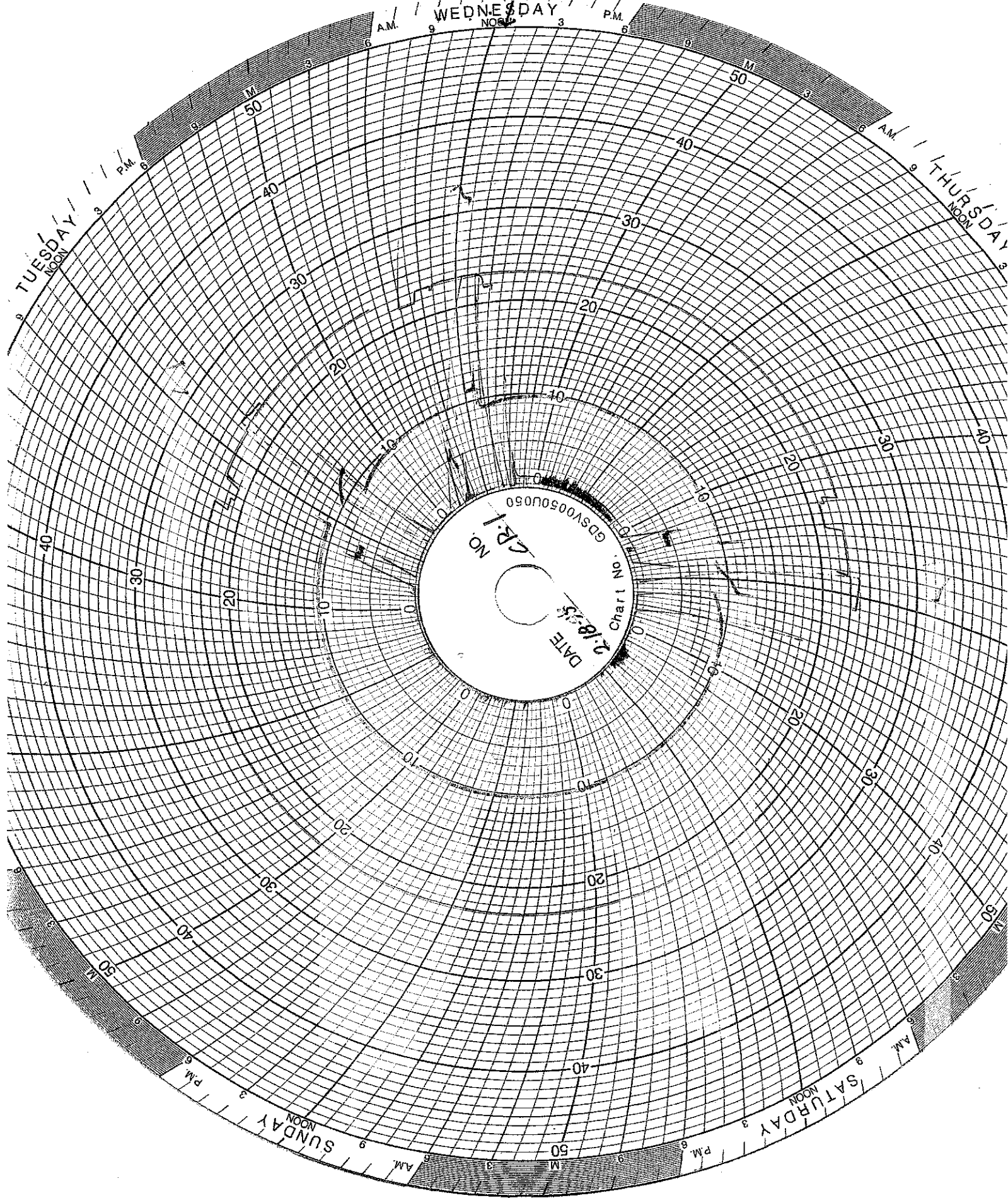
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WEDNESDAY

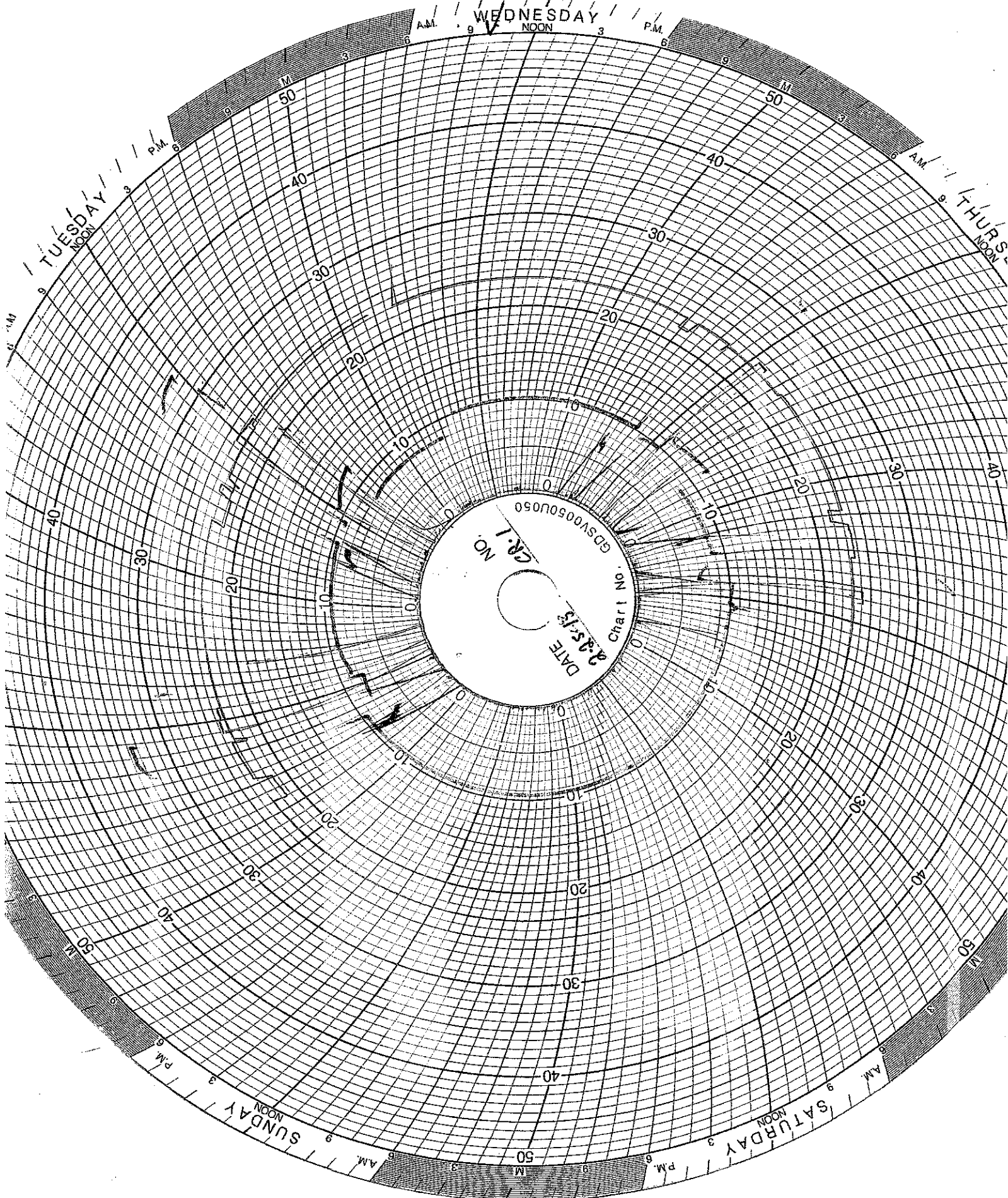
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DATE 2-18-35
Charl No. GDSV0050U050
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WEDNESDAY
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TUESDAY
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THURSDAY
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SUNDAY
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SATURDAY
NOON

DATE 2.25.13
Chart No. GDSV0050U050
CR. 1 NO.

WELL 2 DATA

Well 02 Monthly Data

Date	Min Injection Pressure (PSIG)	Max Injection Pressure (PSIG)	Min Sight Glass Level (in)	Max Sight Glass Level (in)	Min Annulus Pressure (PSIG)	Max Annulus Pressure (PSIG)	Min Injectate pH	Max Injectate pH	Min Flow Rate (GPM)	Max Flow Rate (GPM)	Min Differential Pressure (PSIG)	Max Differential Pressure (PSIG)
2/1/2015	0.00	0.00	17.30	17.30	270.00	270.00	NI	NI	0.00	0.00	270.00	270.00
2/2/2015	0.00	0.00	17.00	17.30	270.00	270.00	NI	NI	0.00	0.00	270.00	270.00
2/3/2015	0.00	0.00	17.00	17.30	270.00	270.00	1.0	1.0	0.00	0.00	270.00	270.00
2/4/2015	0.00	0.00	17.00	17.30	270.00	270.00	1.2	3.3	0.00	0.00	270.00	270.00
2/5/2015	0.00	0.00	17.00	17.00	270.00	270.00	1.2	1.4	0.00	0.00	270.00	270.00
2/6/2015	0.00	0.00	17.00	17.00	270.00	270.00	0.0	2.7	0.00	0.00	270.00	270.00
2/7/2015	0.00	0.00	17.00	17.00	270.00	270.00	2.4	2.7	0.00	0.00	270.00	270.00
2/8/2015	0.00	0.00	17.00	17.00	270.00	270.00	2.4	2.4	0.00	0.00	270.00	270.00
2/9/2015	0.00	0.00	17.00	17.00	270.00	270.00	0.9	7.6	0.00	0.00	270.00	270.00
2/10/2015	0.00	0.00	17.00	17.00	270.00	270.00	1.1	7.6	0.00	0.00	270.00	270.00
2/11/2015	0.00	705.00	16.00	17.00	300.00	963.00	1.7	1.7	0.00	112.00	246.00	345.00
2/12/2015	0.00	0.00	17.00	17.00	300.00	300.00	NI	NI	0.00	0.00	300.00	300.00
2/13/2015	0.00	720.00	15.50	17.00	285.00	990.00	0.9	0.9	0.00	128.00	240.00	348.00
2/14/2015	0.00	0.00	17.00	17.00	345.00	354.00	NI	NI	0.00	0.00	345.00	354.00
2/15/2015	0.00	0.00	17.00	17.00	354.00	354.00	NI	NI	0.00	0.00	354.00	354.00
2/16/2015	0.00	0.00	17.00	17.00	354.00	354.00	0.7	0.7	0.00	0.00	354.00	354.00
2/17/2015	0.00	0.00	17.00	17.00	354.00	354.00	NI	NI	0.00	0.00	354.00	354.00
2/18/2015	0.00	0.00	17.00	17.00	345.00	354.00	1.1	3.3	0.00	0.00	345.00	354.00
2/19/2015	0.00	0.00	17.00	17.00	345.00	345.00	2.4	2.4	0.00	0.00	345.00	345.00
2/20/2015	0.00	0.00	17.00	17.00	345.00	345.00	1.5	3.0	0.00	0.00	345.00	345.00
2/21/2015	0.00	0.00	17.00	17.00	345.00	345.00	2.4	2.7	0.00	0.00	345.00	345.00
2/22/2015	0.00	0.00	17.00	17.00	345.00	345.00	2.7	2.9	0.00	0.00	345.00	345.00
2/23/2015	0.00	0.00	17.00	17.00	345.00	345.00	2.9	3.6	0.00	0.00	345.00	345.00
2/24/2015	0.00	0.00	17.00	17.00	345.00	345.00	3.6	5.9	0.00	0.00	345.00	345.00
2/25/2015	0.00	0.00	17.00	17.00	345.00	345.00	5.0	5.2	0.00	0.00	345.00	345.00
2/26/2015	0.00	0.00	17.00	17.00	345.00	345.00	4.5	11.1	0.00	0.00	345.00	345.00
2/27/2015	0.00	0.00	17.00	17.00	345.00	345.00	5.8	9.4	0.00	0.00	345.00	345.00
2/28/2015	0.00	0.00	17.00	17.00	345.00	345.00	6.7	6.7	0.00	0.00	345.00	345.00

Circle Chart Index

Environmental Geo-Technologies, LLC 28470 Citrin Drive Romulus, MI 48174

Chart Recorder #1

Channel #1

Blue Pen - Well 1 Injection Pressure

Channel #2

Red Pen - Well 1 Annulus Pressure

Channel #3

Green Pen - Well 1 Flow Rate

Channel #4

Black Pen - Well 1 Annulus Tank Level

Chart Recorder #2

Channel #1

Blue Pen - Well 2 Injection Pressure

Channel #2

Red Pen - Well 2 Annulus Pressure

Channel #3

Green Pen - Well 2 Flow Rate

Channel #4

Black Pen - Well 2 Annulus Tank Level

Chart Recorder #3

Channel #1

Blue Pen - Injection pH Well 1 & 2

Channel #2

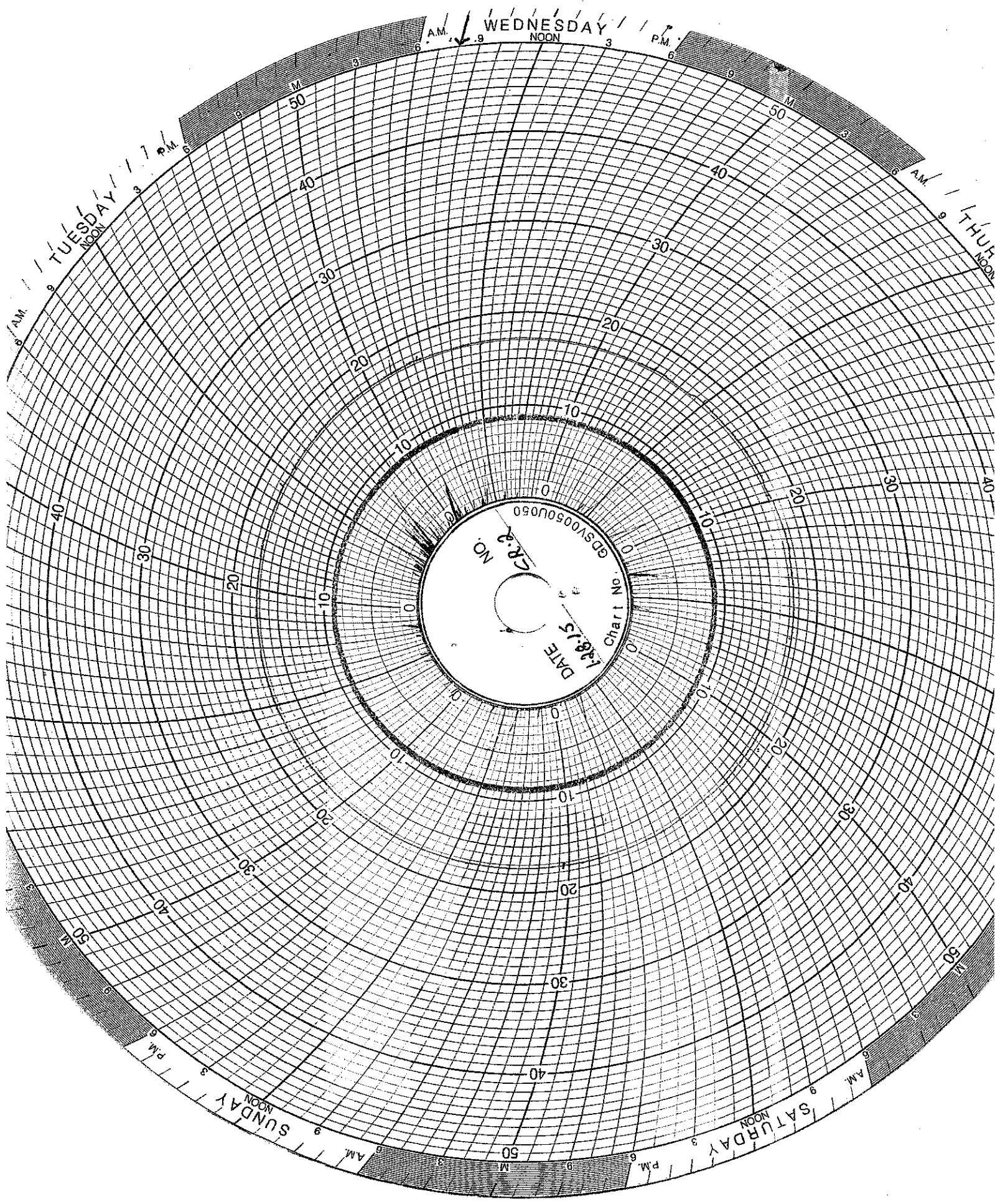
Red Pen - Well 1 Monthly Volume

Channel #3

Green Pen - Well 2 Monthly Volume

Channel #4

Black Pen - Temperature



WEDNESDAY
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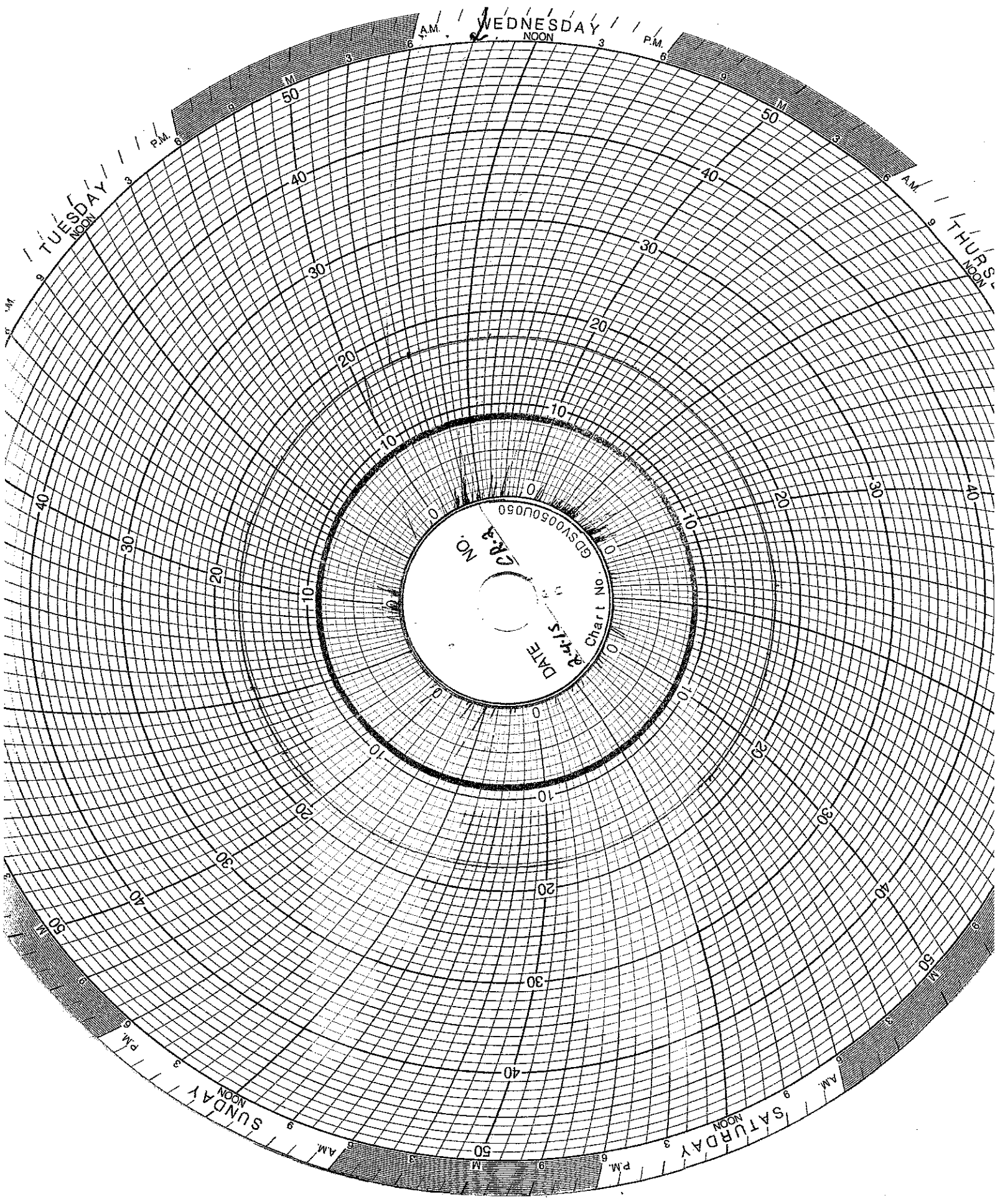
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DATE 1/28/15
Chart No. GDSV0650U080
CR-2 NO.



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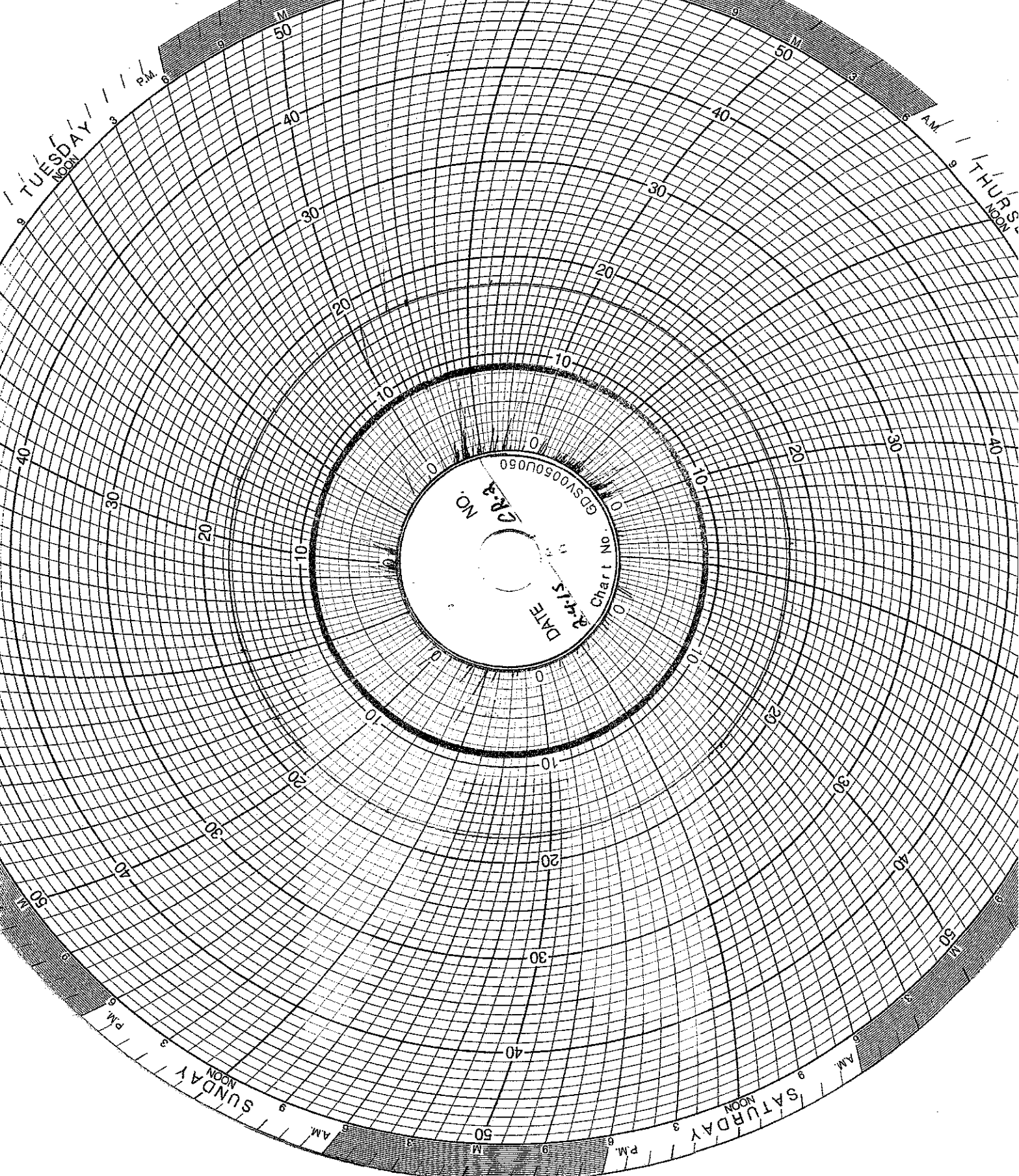
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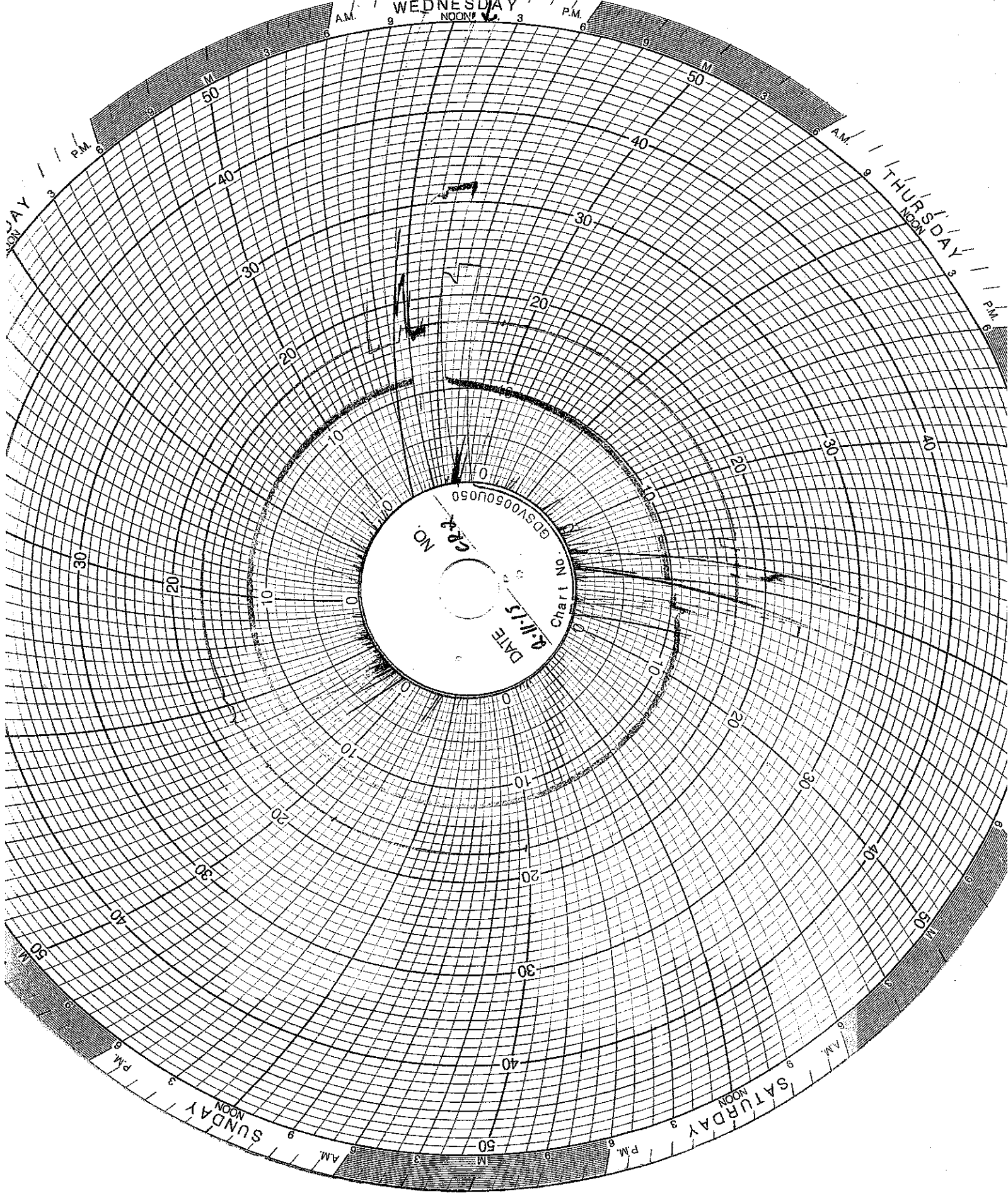
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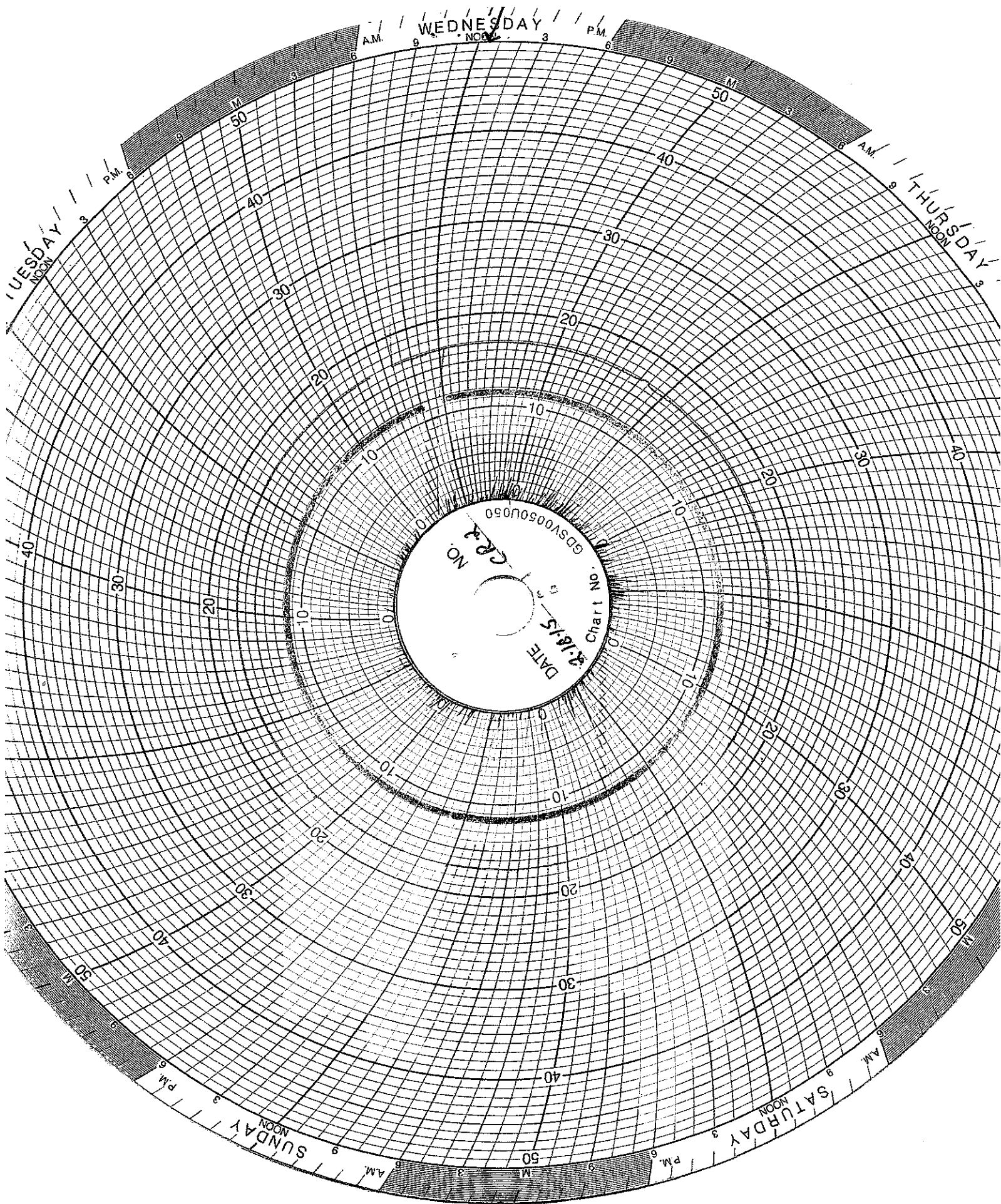
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DATE 2-4-75
Chart No. GDSV0050U080
P.R. NO.







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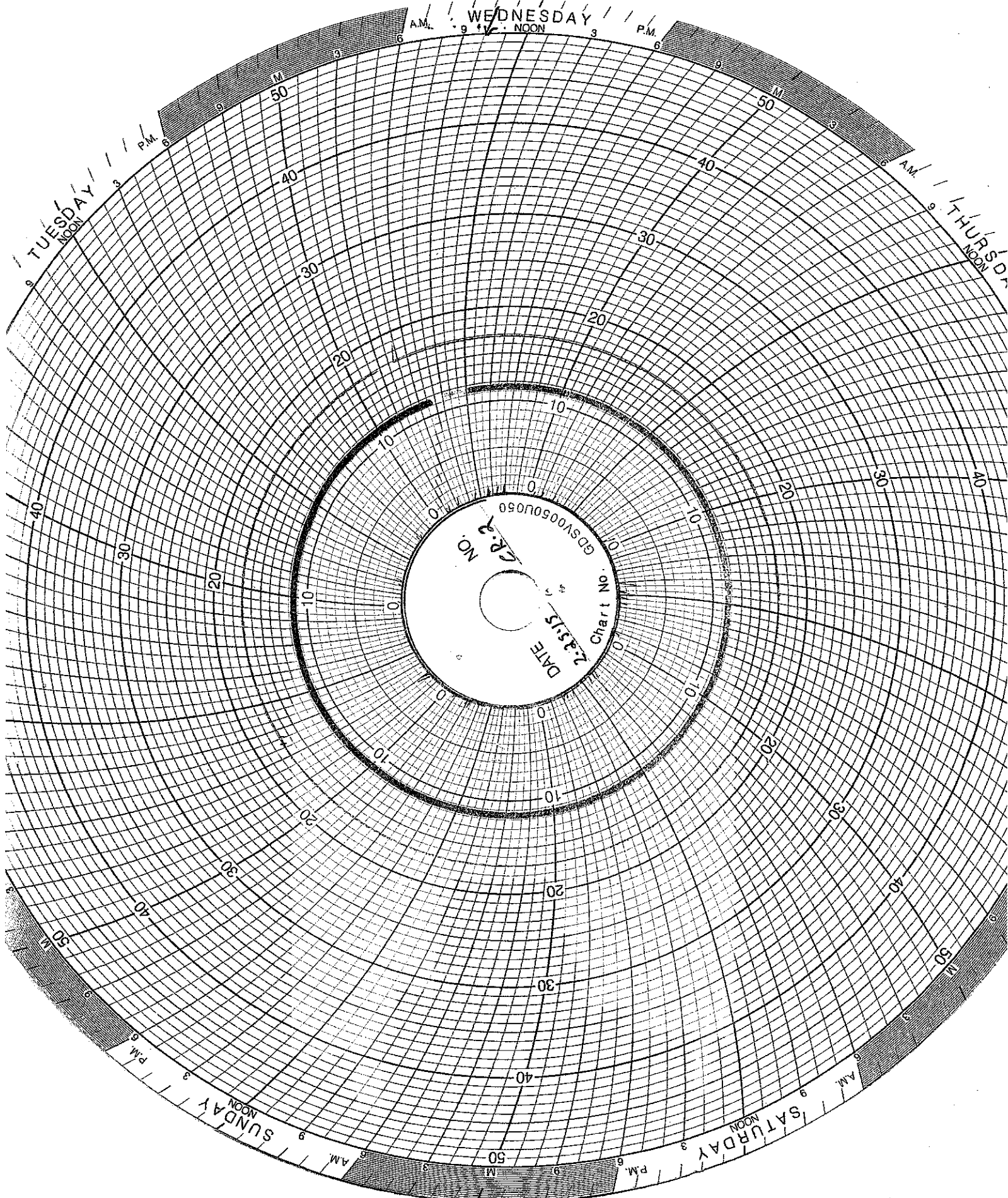
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SATURDAY
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DATE 2-18-15
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WEDNESDAY

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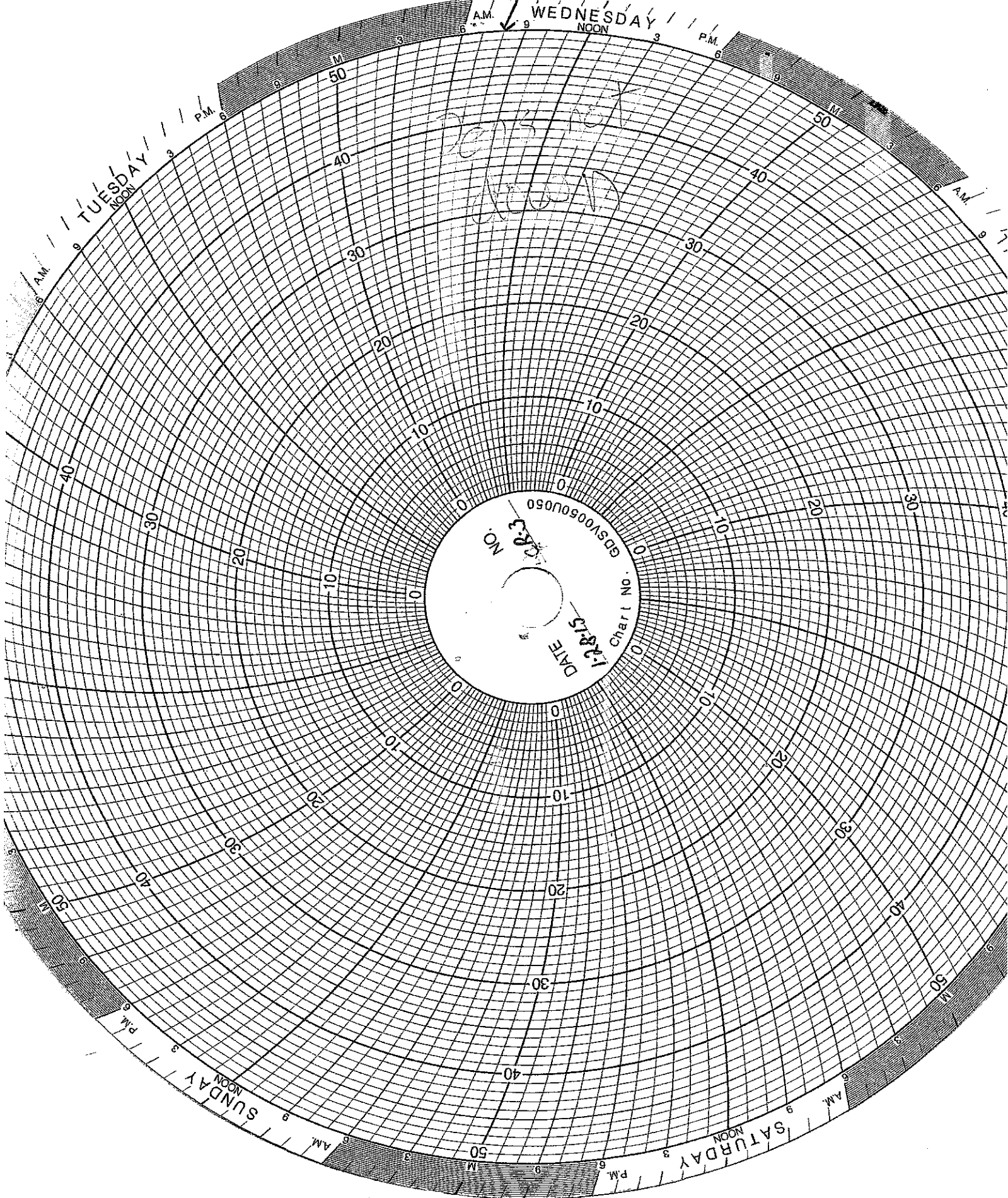
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SATURDAY

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2015
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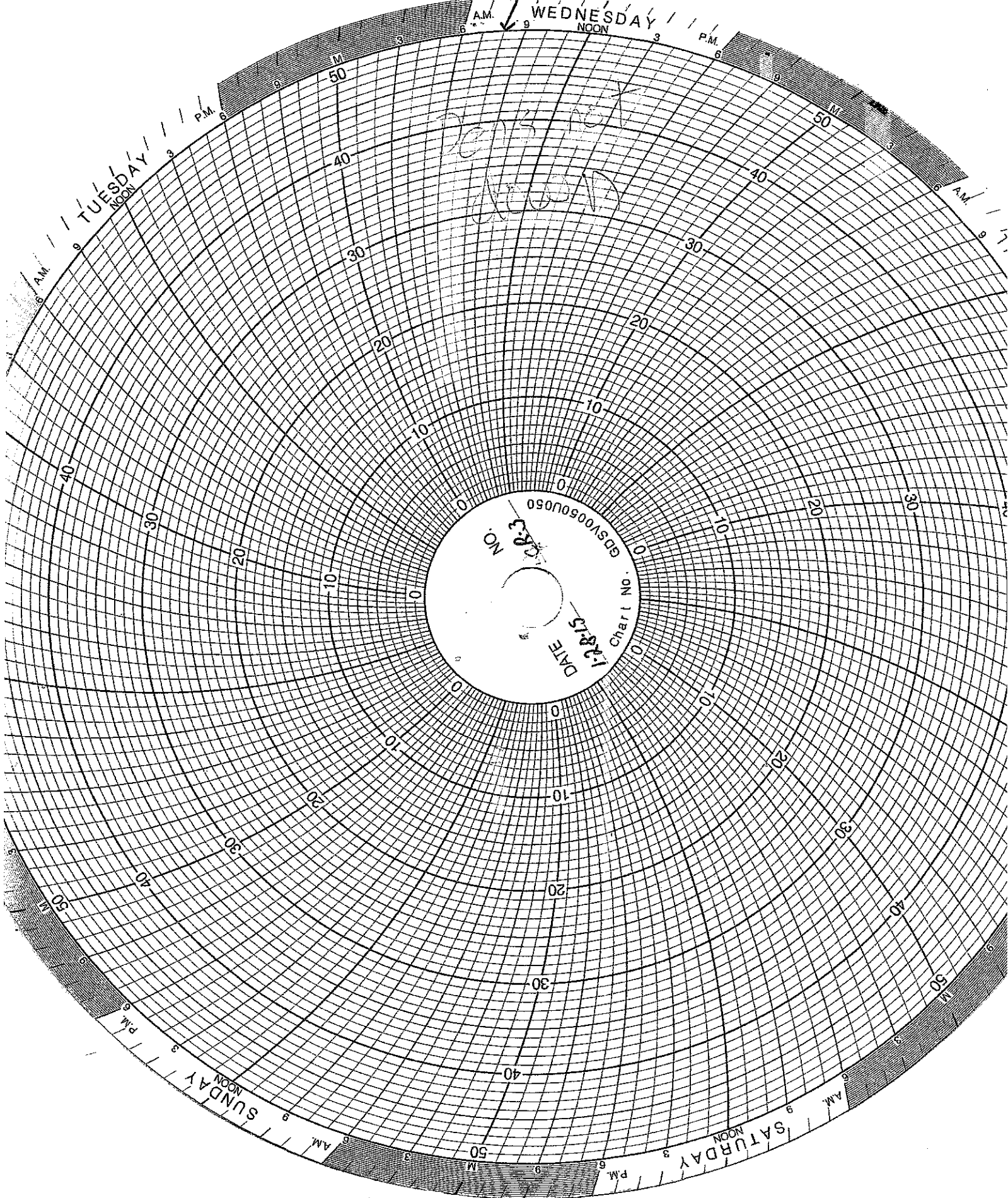
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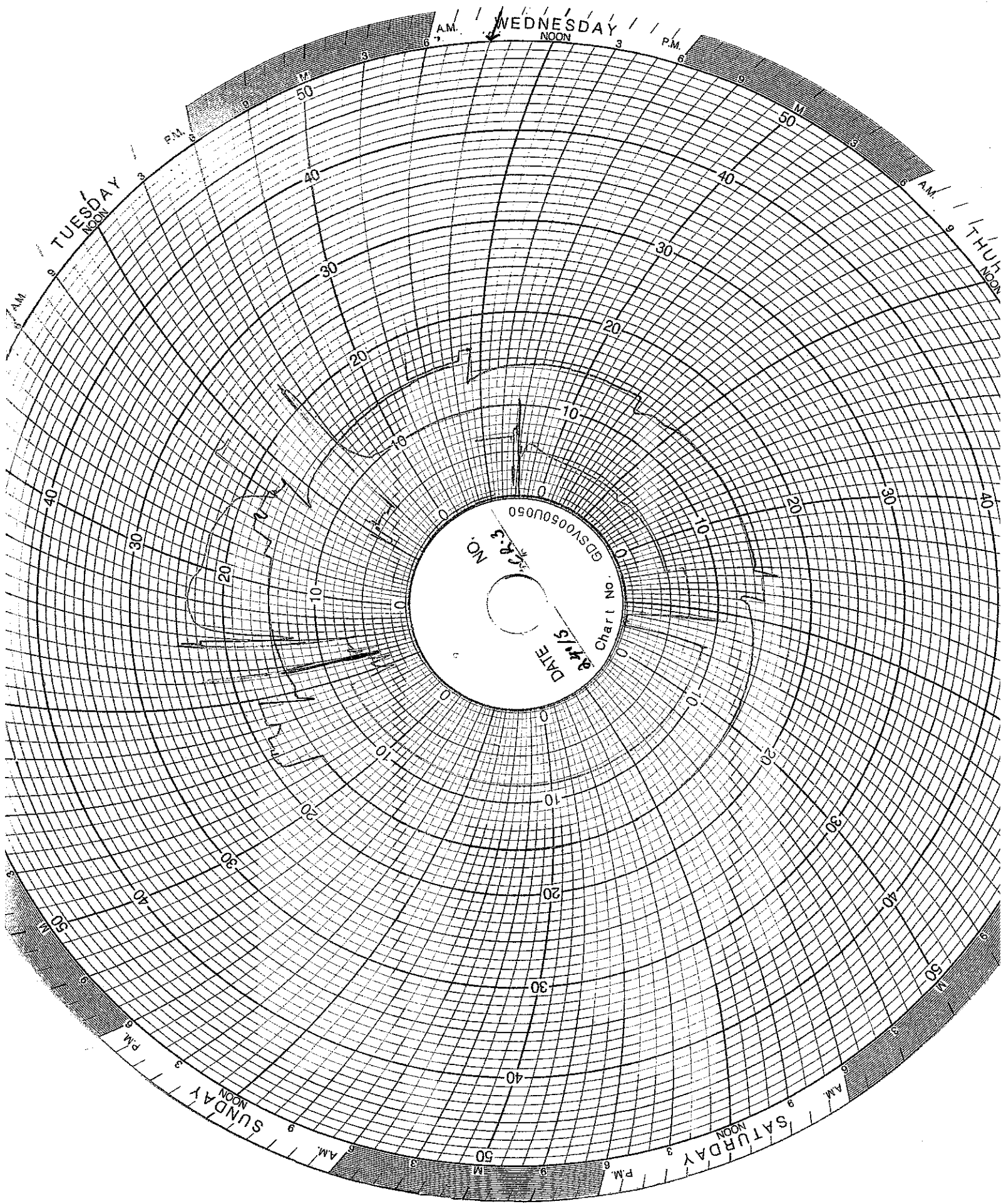
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WEDNESDAY
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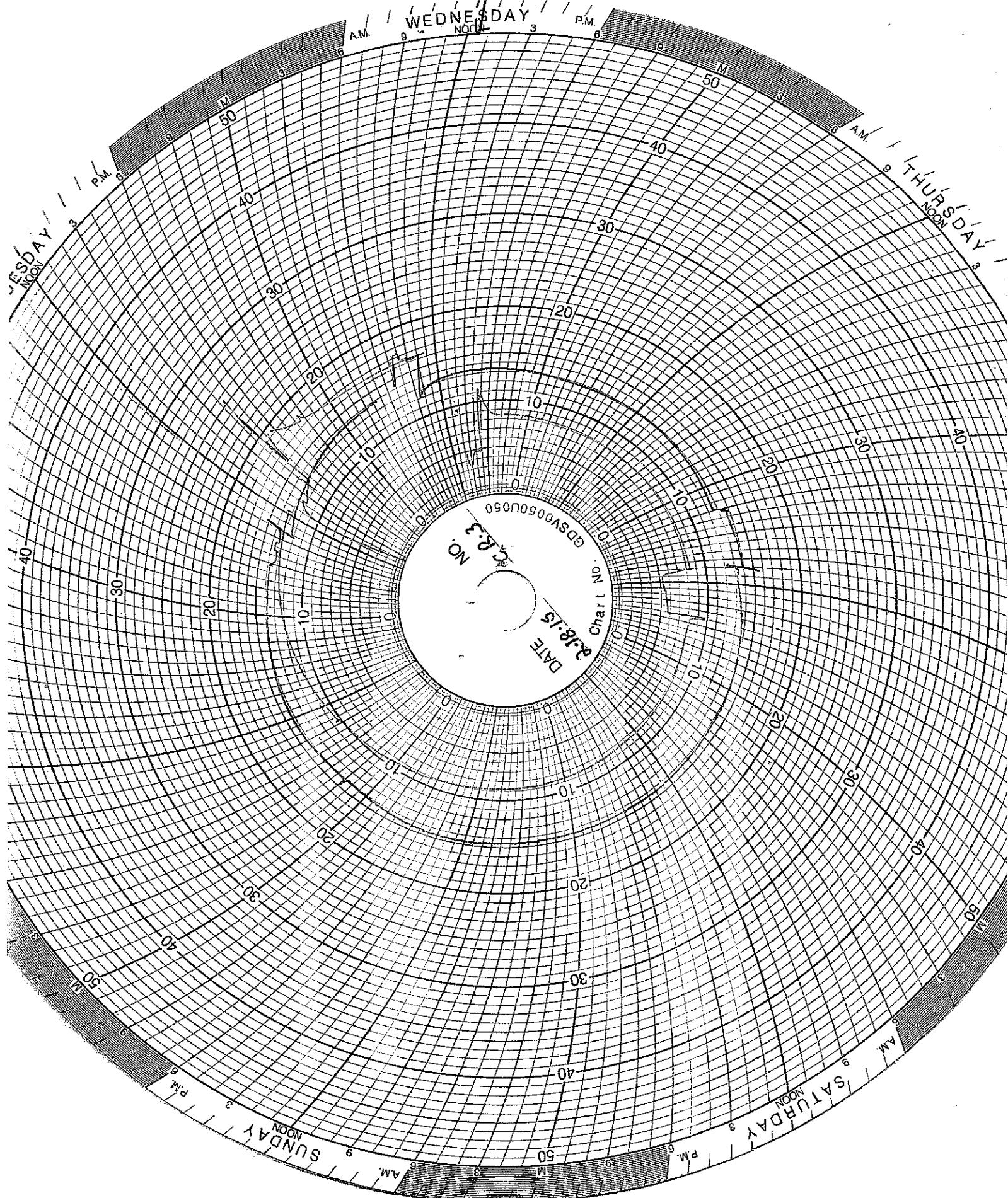
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SATURDAY
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DATE 2/1/5
Chart No. GDSV0050050
NO. 28.5



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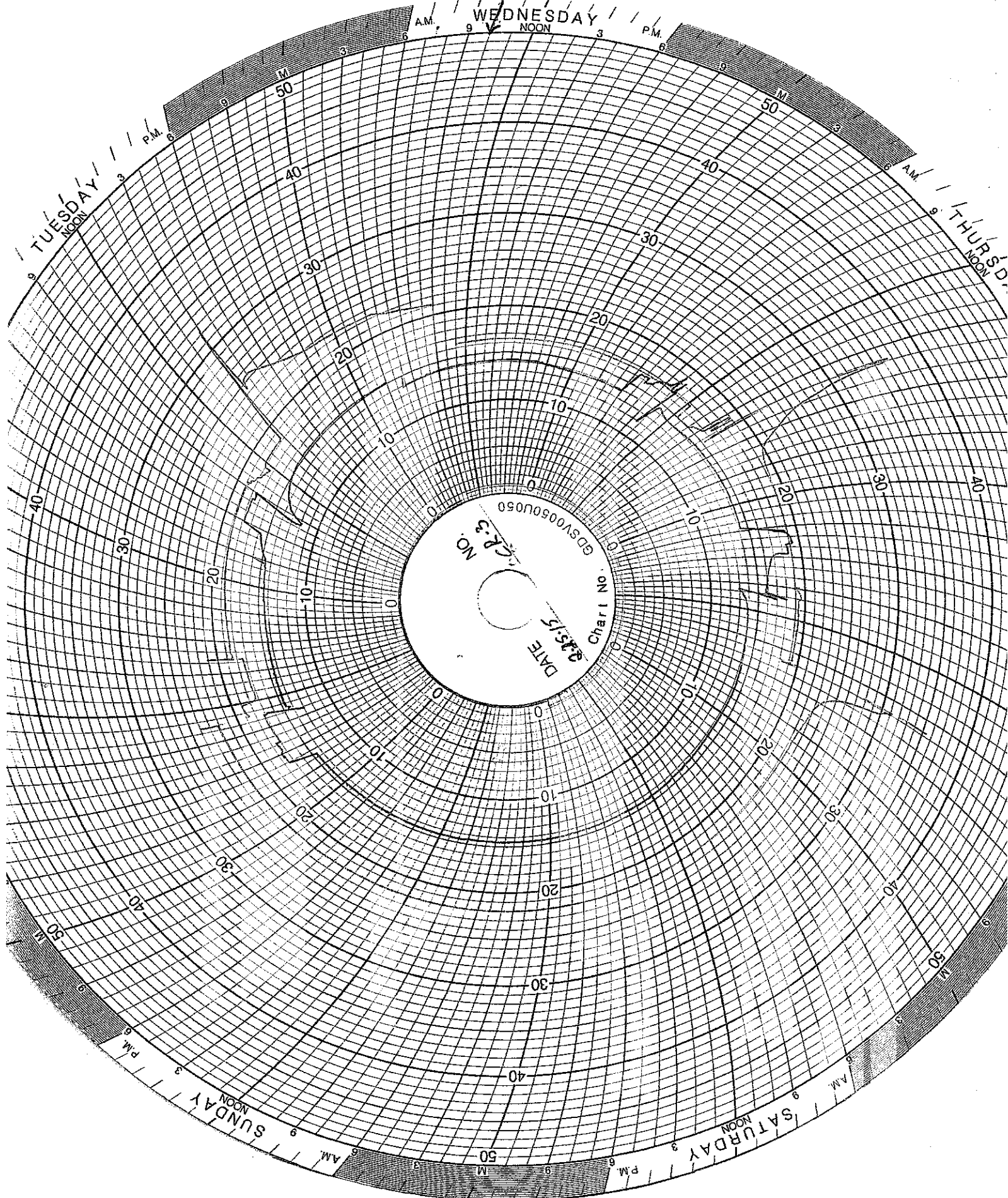
THURSDAY

TUESDAY

SATURDAY

SUNDAY

DATE 2-18-15
Chart No. GDSV0050U050
NO. 228-3



CORROSION MONITORING

CORROSION MONITORING PLAN
COUPON SUMMARY

Date	Hastelloy (C267)	Stainless Steel (316L)	Fiberglass (Redbox)	
12/19/2013	13.330 g	10.848 g	7.309 g	Initial Mass @ start up
2/21/2014	13.329 g	10.846 g	7.306 g	
3/10/2014	13.327 g	10.845 g	7.300 g	
4/18/2014	13.324 g	10.841 g	7.272 g	
5/30/2014	13.328 g	10.818 g	7.226 g	
6/30/2014	13.321 g	10.337 g	7.196 g	
7/11/2014	13.323 g	10.304 g	7.196 g	
8/12/2014	13.328 g	10.045 g	7.182 g	
9/17/2014	13.321 g	9.997 g	7.090 g	
10/30/2014	13.321 g	9.387 g	7.075 g	
11/21/2014	13.320 g	9.386 g	7.069 g	
12/19/2014	13.321 g	9.315 g	7.084 g	
1/12/2015	13.321 g	9.289 g	7.063 g	
2/23/2015	13.339 g	9.286 g	7.005 g	

This month the hastelloy coupon was found to be broken off its mount that threads into the discharge pipe. The piping system down stream had to be removed to find the coupon. The coupon was found in our filter canister. The coupon was noticeably chipped up and bent. The weight of the coupon after being mangled in the pipes and pump was 12.791 g. Instead of moving forward with the mangled coupon EGT installed a new Hastelloy coupon and is reporting mass loss from the old coupon plus mass loss from the new coupon for a total representative mass loss in future reporting.



CORROSION MONITORING COUPONS VISUAL DESCRIPTION

February 23, 2015

Fiberglass Coupon

The fiberglass coupon is Red Box 2000 with dimensions of 2-1/2 inches long by 1/2 inch wide by 3/16 inches thick. It is brown in color with semi-smooth texture, no visual degradation present.

Hastelloy Coupon

The Hastelloy coupon C276 is a new coupon with Serial Number 5 and part number C0100A120104100. The dimensions of the coupon are 3 inches long by 1/2 inch wide by 1/16 inches thick. The coupon is silver in color with a lightly sandblasted surface. The installation weight was 13.3391 grams. Today is a new visual baseline description.

Stainless Steel Coupon

The Stainless Steel coupon is identified as 316 L with serial number C1562. The dimensions of the coupon are 3 inches long by 1/2 inch wide by 1/16 inches thick. The coupon is silver in color. A pitting of the surface area appears to be growing with time.

October 2, 2014

• TEST REPORT •

PN 118325

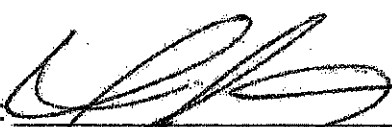
PO Attn: John Frost

PLASTICS TESTING DEPARTMENT

Prepared For:

John Frost
Environmental Geo-Technologies, LLC
28470 Citrin Drive
Romulus, MI 48174

Prepared By:


Melissa Martin
Sr. Project Technician

Approved By:


Jim Drummond
Physical & Plastics Testing, Manager



An A2LA ISO 17025 Accredited Testing Laboratory — Certificate Numbers 255.01 & 255.02
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2887 Gilchrist Rd. | Akron, Ohio 44305 | answers@ardl.com
Toll Free (800) 830-ARDL | Worldwide (330) 794-6600 | Fax (330) 794-6610

October 2, 2014

John Frost
Environmental Geo-Technologies, LLC

Page 2 of 2
PN118325

SUBJECT: Barcol Hardness on one material.
PO# Attn: John Frost

RECEIVED: One small section identified as; Fiberglass Coupon.

BARCOL HARDNESS ASTM D 2583-13a

Results

Barcol Hardness, Instant

97

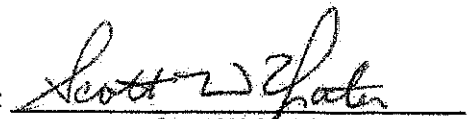
Prepared By:



Melissa Martin
Sr. Project Technician

st

Approved By:



Scott W. Yates
Plastics Testing Assistant Manager

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GHESQUIERE PLASTIC TESTING, INC.

20450 HARPER AVENUE
HARPER WOODS, MI 48225
PHONE (313) 885-3535
FAX (313) 885-1771

Report Date: November 15, 2013
Test Date: October 15 - November 14, 2013

Report #1310-77651
Performed for:
Environmental Geo-Technologies
28470 Citrin Drive
Romulus, MI 48174

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.

(P. O. #Credit Card).

WORK PERFORMED:

Test specimen was prepared as necessary and conditioned for a minimum of 24 hours at standard laboratory conditions prior to testing.

Barcol Hardness test was performed in accordance with the procedures of ASTM D2583-13. One specimen was tested.

RESULTS:


The following determination was made based upon the above test:

BARCOL HARDNESS

	<u>Hardness</u>
Specimen 1	90

Specimen is being returned with this report for further evaluation.

GHESQUIERE PLASTIC TESTING, INC.


M. W. Ghesquiere
President

MWG/kni

Our letters and reports are for the exclusive use of the client to whom they are addressed, and shall not be reproduced except in full without our written approval. Our letters and reports apply only to the sample tested and are not necessarily indicative of the qualities of apparently identical or similar products. The letters and reports and the name of Ghesquiere Plastic Testing, Inc., are not to be used under any circumstances in advertising to the general public. Samples, extra and related test materials will be destroyed 30 days after the date of the final report unless the client indicates otherwise in writing.

TOTAL 1 PAGES

Ghesquiere Plastic Testing, Inc.

20450 HARPER AVENUE
HARPER WOODS, MI 48225
PHONE (313) 885-3535
FAX (313) 885-1771

Report Date: February 17, 2014
Test Date: February 14 - 17, 2014

Report #1402-78036
Performed for:
Environmental Geo-Technologies
28470 Citrin Drive
Romulus, MI 48174

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.
(P. O. #Credit Card).

WORK PERFORMED:

Test specimen was prepared as necessary and conditioned for a minimum of 24 hours at standard laboratory conditions prior to testing.

Barcol Hardness test was performed in accordance with the procedures of ASTM D2583-13. One specimen was tested.

RESULTS:

The following determination was made based upon the above test:

BARCOL HARDNESS

Hardness

Specimen 1: 90

Specimen was returned to the client on February 17, 2014.

Ghesquiere Plastic Testing, Inc.

M. W. Ghesquiere
President

MWG/dm

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TOTAL 1 PAGES

Ghesquiere Plastic Testing, Inc.

20450 HARPER AVENUE
HARPER WOODS, MI 48225
PHONE (313) 885-3535
FAX (313) 885-1771

Report Date: June 16, 2014
Test Date: June 13 - 16, 2014

Report #1406-78499
Performed for:
Environmental Geo-Technologies, LLC
28470 Citrin Drive
Romulus, MI 48174

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.
(P. O. #Credit Card).

WORK PERFORMED:

Test specimen was prepared as necessary and conditioned for a minimum of 24 hours at standard laboratory conditions prior to testing.

Barcol Hardness test was performed in accordance with the procedures of ASTM D2583-13. One specimen was tested.

RESULTS:

The following determination was made based upon the above test:

BARCOL HARDNESS

	<u>Hardness</u>
Specimen 1	85

Specimen was returned to the client June 16, 2014.

Ghesquiere Plastic Testing, Inc.


M. W. Ghesquiere
President

MWG/dm

MAINTENANCE LOG

UIC Monthly Maintenance Log

2/16/2015	Wellhead freeze protection	Heat traced and insulated wellhead pipes for extreme cold.
-----------	----------------------------	--

**INJECTION
FINGERPRINTS**

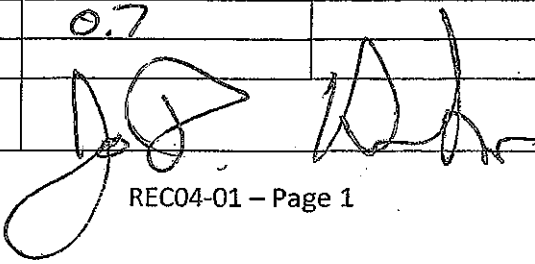
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2/3/15
Receiving ID#	902031501
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	DAH

COPY

LAB INFORMATION		Oilfield Brines Only	
All Waste Shipments		Barium	
Compatible? (RT#)	Yes No	Calcium	
PCBs (ppm)(Oily Waste Only)?		Total Iron	
TOC (ppm)(CC Waste Only)?		Magnesium	
Flash Point (°F)	> 140	Sodium Chloride	
pH (S.U.)	1.0	Bicarbonate	
Cyanides? (mg/L)		Carbonate	
Sulfides? (ppm)		TDS	7.77
Specific Gravity	1.16	Resistivity	
Physical Description		Sulfate	
Stream Consistency	Yes No		
Oil in Sample	Yes No		
Temperature	62°F		
Conductivity	153.5 mS		
% Solids	8.4		
Turbidity	Yes No		
Color (visual)			
TSS (%)	0.7		
Radiation Screen (as needed)			
Lab Signature			

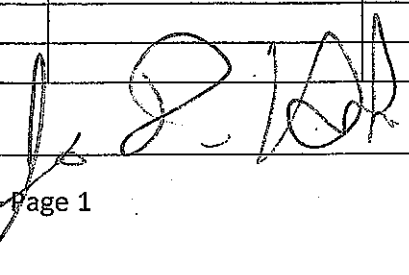
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2/4/15
Receiving ID#	302041501
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	D.M.

COPY

LAB INFORMATION		Oilfield Brines Only	
All Waste Shipments		Barium	
Compatible? (RT#)	Yes No	Calcium	
PCBs (ppm)(Oily Waste Only)?		Total Iron	
TOC (ppm)(CC Waste Only)?		Magnesium	
Flash Point (°F)	> 140	Sodium Chloride	
pH (S.U.)	1.1	Bicarbonate	
Cyanides? (mg/L)		Carbonate	
Sulfides? (ppm)		TDS	24.07
Specific Gravity	1.18	Resistivity	
Physical Description		Sulfate	
Stream Consistency	Yes No		
Oil in Sample	Yes No		
Temperature	60°F		
Conductivity	> 400.0 mS		
% Solids	24.0		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

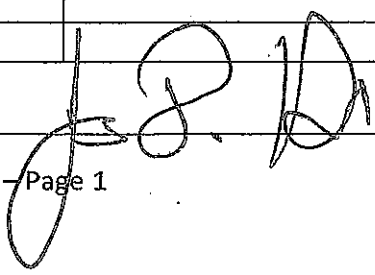
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2/6/15
Receiving ID#	102061501
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	RAM

COPY

LAB INFORMATION		Oilfield Brines Only	
All Waste Shipments			
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.14	TDS	16.29
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	54°F		
Conductivity	328.6 mS		
% Solids	16.2		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

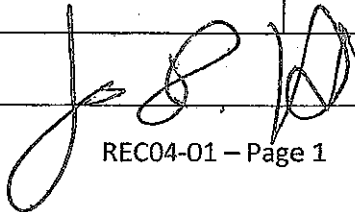
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2/9/15
Receiving ID#	102091501
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J. H.
Sampled by	R. H.

COPY

LAB INFORMATION		Oilfield Brines Only	
All Waste Shipments			
Compatible? (RT#)	<input checked="" type="radio"/> Yes <input type="radio"/> No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.2	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.18	TDS	27.6%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	57°F		
Conductivity	> 4000 mS		
% Solids	27.6		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

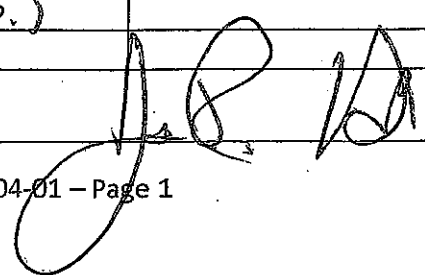
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2/9/15
Receiving ID#	I02091502
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	JH
Sampled by	DA

COPY

LAB INFORMATION		Oilfield Brines Only	
All Waste Shipments			
Compatible? (RT#)	<input checked="" type="radio"/> Yes <input type="radio"/> No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	1.5	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.12	TDS	5.57
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	58°F		
Conductivity	108.9 mS		
% Solids	5.5		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

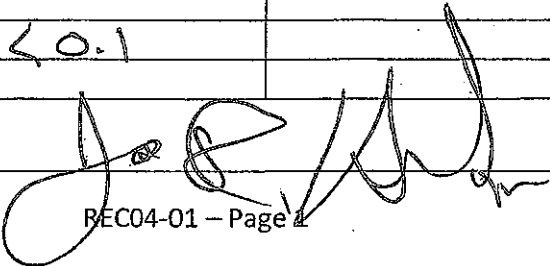
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2/10/15
Receiving ID#	102101501
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	DAI

COPY

LAB INFORMATION		Oilfield Brines Only	
All Waste Shipments			
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	140	Magnesium	
pH (S.U.)	0.7	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.16	TDS	799.
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	65°F		
Conductivity	158.9 mS		
% Solids	7.9		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

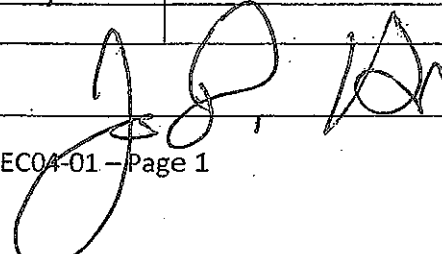
FINGERPRINT FORM

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RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2/11/15
Receiving ID#	102111501
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	D.A.

COPY

LAB INFORMATION: All Waste Shipments		Oilfield Brines Only	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	1.7	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	5.2%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	65°F		
Conductivity	103.9 mS		
% Solids	5.2		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

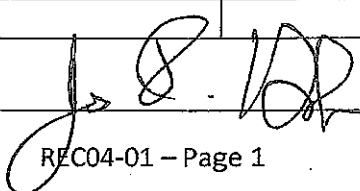
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	02-13-15
Receiving ID#	102131501
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	W.H.

COPY

LAB INFORMATION		Oilfield Brines Only	
All Waste Shipments			
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.9	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	6.47
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	59°F		
Conductivity	127.0 μS		
% Solids	6.4		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2-16-15
Receiving ID#	IO2161501
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	

COPY

LAB INFORMATION		Oilfield Brines Only
All Waste Shipments		
Compatible? (RT#)	Yes No	Barium
PCBs (ppm)(Oily Waste Only)?		Calcium
TOC (ppm)(CC Waste Only)?		Total Iron
Flash Point (°F)	> 140	Magnesium
pH (S.U.)	0.7	Sodium Chloride
Cyanides? (mg/L)		Bicarbonate
Sulfides? (ppm)		Carbonate
Specific Gravity	1.14	TDS
Physical Description		Resistivity
Stream Consistency	Yes No	Sulfate
Oil in Sample	Yes No	
Temperature	61°F	
Conductivity	175.0 mS	
% Solids	8.6	
Turbidity	Yes No	
Color (visual)		
TSS (%)	< 0.1	
Radiation Screen (as needed)		
Lab Signature		

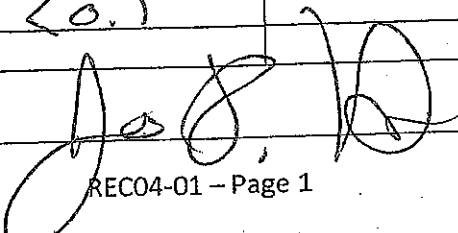
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	02-18-15
Receiving ID#	102181501
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	DAK

COPY

LAB INFORMATION		Oilfield Brines Only	
Compatible? (RT#)	<input checked="" type="radio"/> Yes <input type="radio"/> No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.9	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.16	TDS	20.77
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	69°F		
Conductivity	> 400.0ms		
% Solids	20.7		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

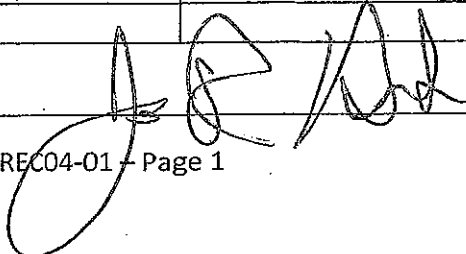
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2/20/15
Receiving ID#	T02-2015 01
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	W.D.

COPY

LAB INFORMATION All Waste Shipments		Oilfield Brines Only	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	140	Magnesium	
pH (S.U.)	2.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.09	TDS	9.67
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	52°F		
Conductivity	189.6 mS		
% Solids	9.6		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2-24-15
Receiving ID#	102241501
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	<i>J.H.</i>
Sampled by	<i>J.H.</i>

COPY

LAB INFORMATION		Oilfield Brines Only	
All Waste Shipments			
Compatible? (RT#)	<input checked="" type="checkbox"/> Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	1.5	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	1.1%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	53°F		
Conductivity	20.6 mS		
% Solids	1.1		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature	<i>J.H.</i>		

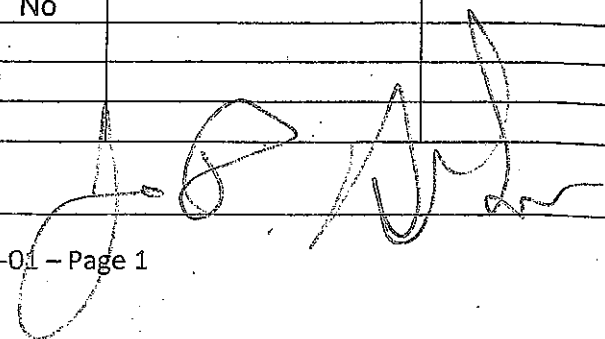
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2-26-15
Receiving ID#	J02261501
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	RH

COPY

LAB INFORMATION		Oilfield Brines Only	
All Waste Shipments			
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	1.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	8.47
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	61°F		
Conductivity	167.2 uS		
% Solids	8.4		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

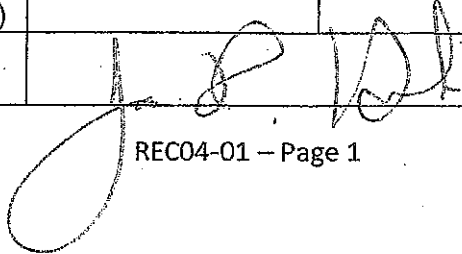
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2-26-15
Receiving ID#	202261502
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	J.H.

COPY

LAB INFORMATION		Oilfield Brines Only	
All Waste Shipments			
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	1.9	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	4.47
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	69		
Conductivity	86.5 mS		
% Solids	4.4		
Turbidity	Yes No		
Color (visual)			
TSS (%)	20.7		
Radiation Screen (as needed)			
Lab Signature			

**WASTE STREAMS
CHARACTERIZATIONS**