



Environmental GEO-Technologies, LLC

January 30, 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 fourteenth 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,

A handwritten signature in black ink, appearing to read "Richard J. Powals".

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

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

att.

rjp013015/EGTEPAMonthlyReport-December 2014

AVERAGE INJECTION RATE

Calculation of Average Injection Rate

CURRENT REPORTING YEAR 2014CURRENT REPORTING MONTH DECEMBER

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	46,271	0	46,271
Since facility first injected			1,043,547
MI-163-1W-C011, Well #2-12			
Current Month	41,640	0	41,640
Since facility first injected			945,935
		Lifetime Combined	1,989,482

Conversion factors365.25 days per year \div 12 months per year = 30.4375 days per month30.4375 days per month \times 1440 minutes per day = 43,830 minutes per monthCalculationsWhole number of months of injection 14

$$\underline{14} \text{ lifetime number of months of injection} \times 43,830 \text{ minutes/month} \\ = \underline{613,620} \text{ minutes of injection}$$

$$\text{Lifetime combined injected volume } \underline{1,989,482} \div \underline{613,620} \text{ minutes of injection} \\ = \underline{3.2} \text{ gpm average injection rate}$$

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)
12/1/2014	0.0	720.0	21.5	23.0	228.0	1068.0	0.0	0.0	0.0	104.0	210.0	345.0
12/2/2014	0.0	708.0	21.8	23.6	276.0	1053.0	0.0	0.0	0.0	46.8	222.0	357.0
12/3/2014	0.0	0.0	23.0	23.5	255.0	330.0	0.0	0.0	0.0	71.2	240.0	324.0
12/4/2014	0.0	729.0	22.0	23.5	264.0	1071.0	0.0	0.0	0.0	80.0	267.0	345.0
12/5/2014	0.0	741.0	21.5	23.8	258.0	1050.0	0.0	0.0	0.0	72.0	228.0	309.0
12/6/2014	0.0	0.0	23.5	23.5	225.0	225.0	0.0	0.0	0.0	0.0	222.0	225.0
12/7/2014	0.0	0.0	23.5	23.5	225.0	225.0	0.0	0.0	0.0	0.0	219.0	222.0
12/8/2014	0.0	741.0	21.9	23.8	195.0	1050.0	0.0	0.0	0.0	92.8	195.0	312.0
12/9/2014	0.0	0.0	23.2	23.4	282.0	288.0	0.0	0.0	0.0	0.0	282.0	285.0
12/10/2014	0.0	0.0	23.2	23.4	285.0	285.0	0.0	0.0	0.0	0.0	285.0	285.0
12/11/2014	0.0	0.0	23.2	23.2	282.0	282.0	0.0	0.0	0.0	0.0	285.0	285.0
12/12/2014	0.0	0.0	23.2	23.2	276.0	279.0	0.0	7.9	0.0	0.0	282.0	285.0
12/13/2014	0.0	0.0	23.1	23.1	273.0	276.0	0.3	0.6	0.0	0.0	276.0	285.0
12/14/2014	0.0	0.0	23.0	23.0	270.0	270.0	0.6	3.3	0.0	0.0	270.0	276.0
12/15/2014	0.0	720.0	22.0	23.0	270.0	1086.0	3.3	7.3	0.0	101.2	270.0	369.0
12/16/2014	0.0	726.0	22.0	24.5	201.0	1050.0	6.7	7.6	0.0	176.8	195.0	357.0
12/17/2014	0.0	72.0	23.0	23.0	297.0	300.0	6.7	7.6	0.0	0.0	294.0	300.0
12/18/2014	0.0	0.0	23.0	23.0	294.0	297.0	6.7	7.0	0.0	0.0	294.0	294.0
12/19/2014	0.0	0.0	23.0	23.0	285.0	288.0	7.0	7.3	0.0	0.0	288.0	294.0
12/20/2014	0.0	0.0	23.0	23.0	279.0	282.0	7.3	7.3	0.0	0.0	285.0	288.0
12/21/2014	0.0	0.0	23.0	23.0	279.0	279.0	7.3	7.3	0.0	0.0	282.0	285.0
12/22/2014	0.0	0.0	23.0	23.0	276.0	279.0	7.3	7.9	0.0	0.0	282.0	285.0
12/23/2014	0.0	0.0	23.0	23.0	279.0	279.0	7.0	9.7	0.0	0.0	285.0	285.0
12/24/2014	0.0	0.0	23.0	23.0	282.0	285.0	7.0	10.6	0.0	0.0	294.0	282.0
12/25/2014	0.0	0.0	23.0	23.0	279.0	282.0	7.3	7.3	0.0	0.0	279.0	279.0
12/26/2014	0.0	0.0	23.0	23.0	279.0	279.0	7.0	10.3	0.0	0.0	279.0	279.0
12/27/2014	0.0	0.0	23.0	23.0	276.0	276.0	7.3	7.3	0.0	0.0	276.0	279.0
12/28/2014	0.0	0.0	23.0	23.0	273.0	276.0	7.3	7.3	0.0	0.0	276.0	276.0
12/29/2014	0.0	0.0	23.0	23.0	273.0	273.0	7.0	7.6	0.0	0.0	276.0	276.0
12/30/2014	0.0	0.0	23.0	23.0	273.0	273.0	7.0	7.6	0.0	0.0	276.0	276.0
12/31/2014	0.0	0.0	23.0	23.0	273.0	273.0	7.0	7.3	0.0	0.0	273.0	276.0

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

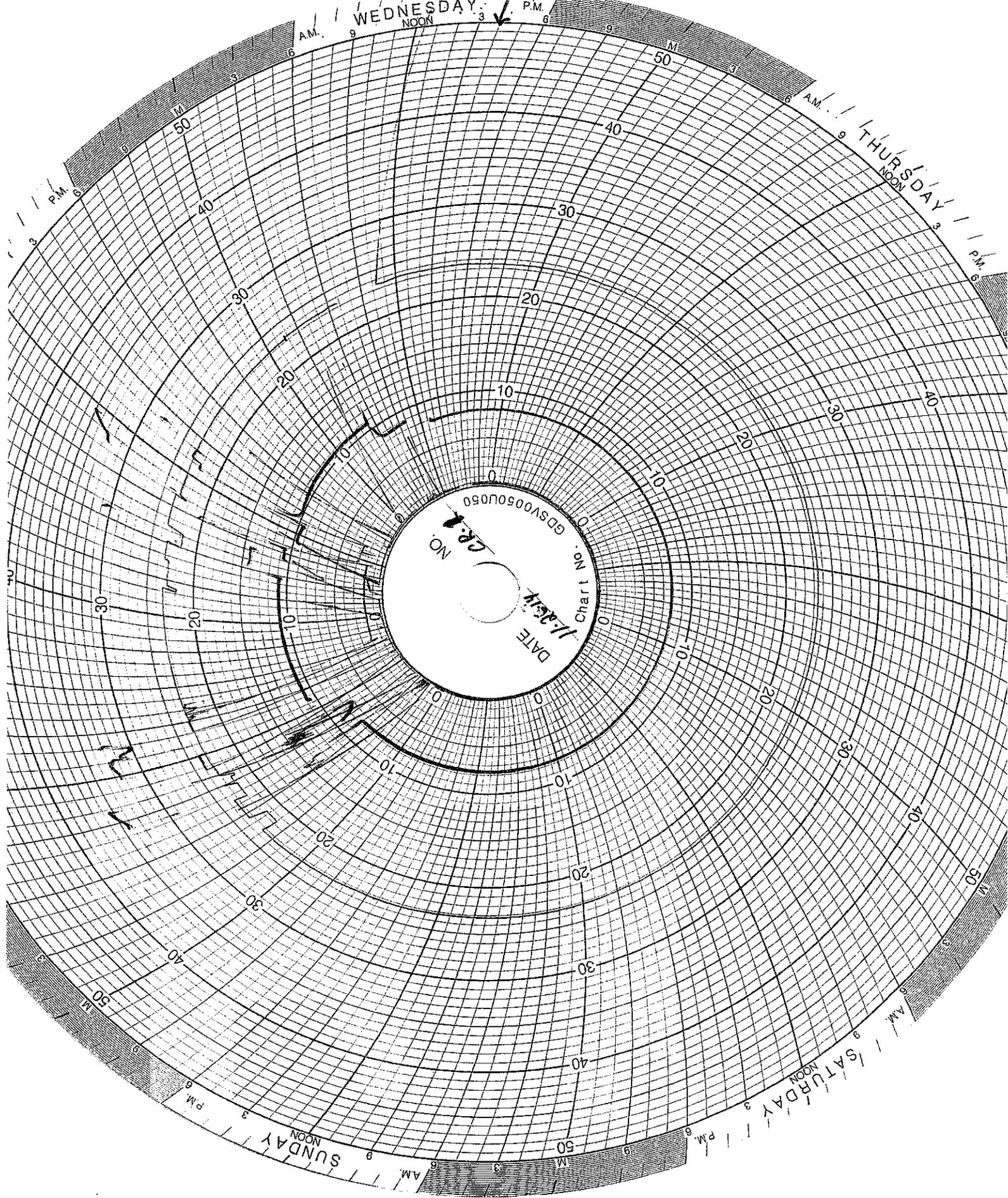
Red Pen – Well 1 Monthly Volume

Channel #3

Green Pen – Well 2 Monthly Volume

Channel #4

Black Pen - Temperature



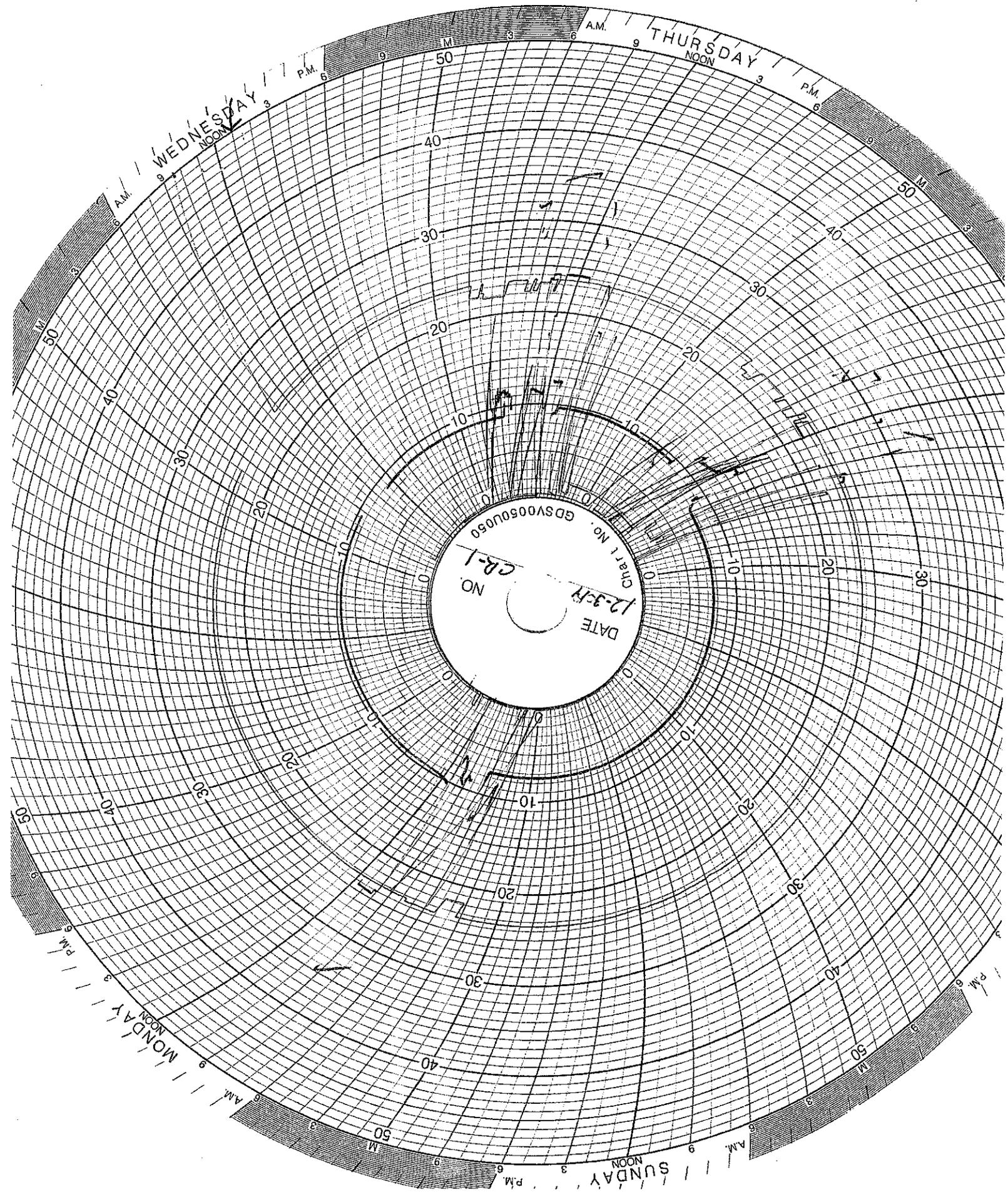
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THURSDAY
NOON 3 P.M. 6

SATURDAY
NOON 3 P.M. 6

SUNDAY
NOON 3 P.M. 6

DATE 11-21-50
Chart No. GDSV0050U050
CR. NO. 1234



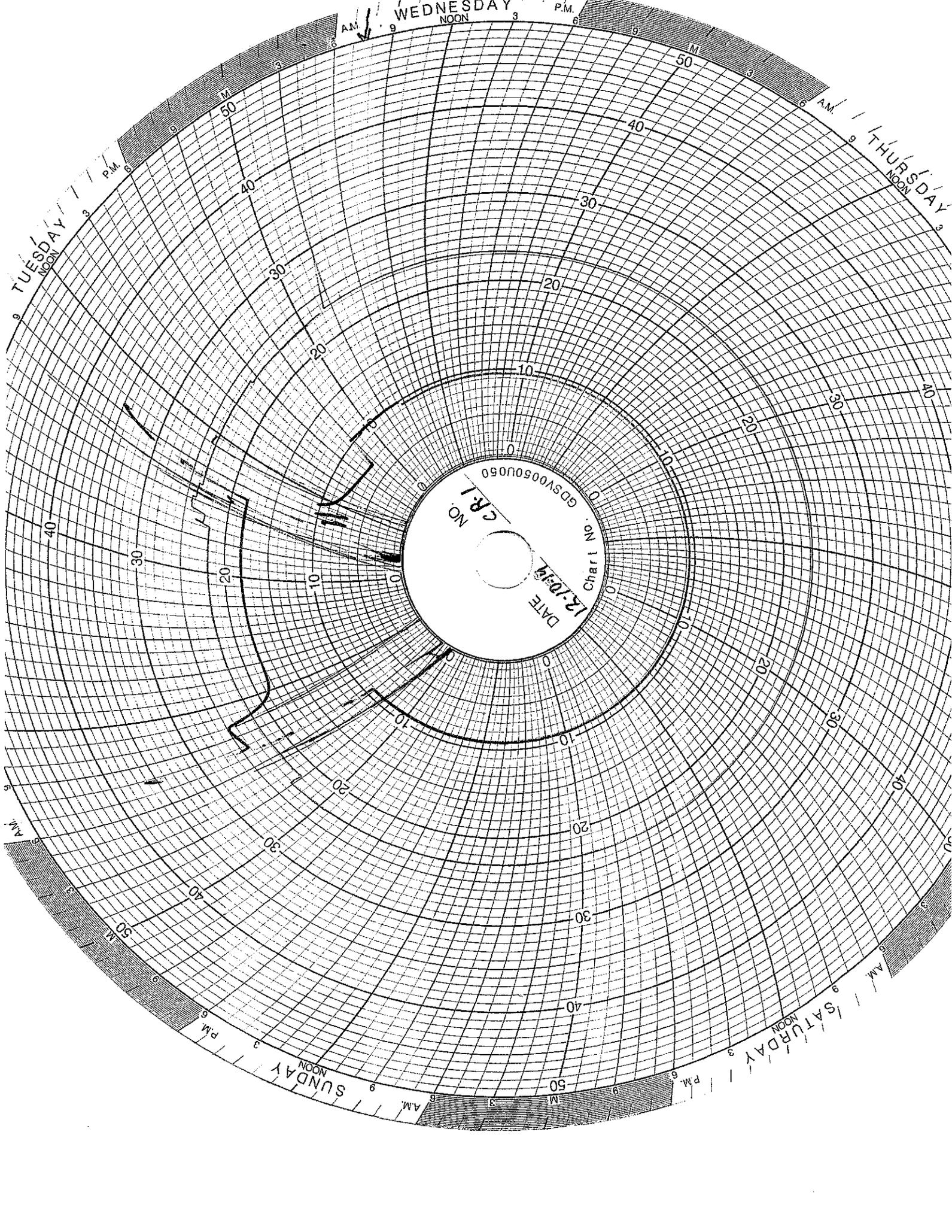
WEDNESDAY
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A.M.

THURSDAY
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9
P.M.

SUNDAY
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3
6
9
P.M.

MONDAY
NOON
3
6
9
P.M.

DATE 12-3-77
NO. CR-1
Chart No. GDSV0050050



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P.M.

TUESDAY
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P.M.

THURSDAY
NOON

A.M.

M

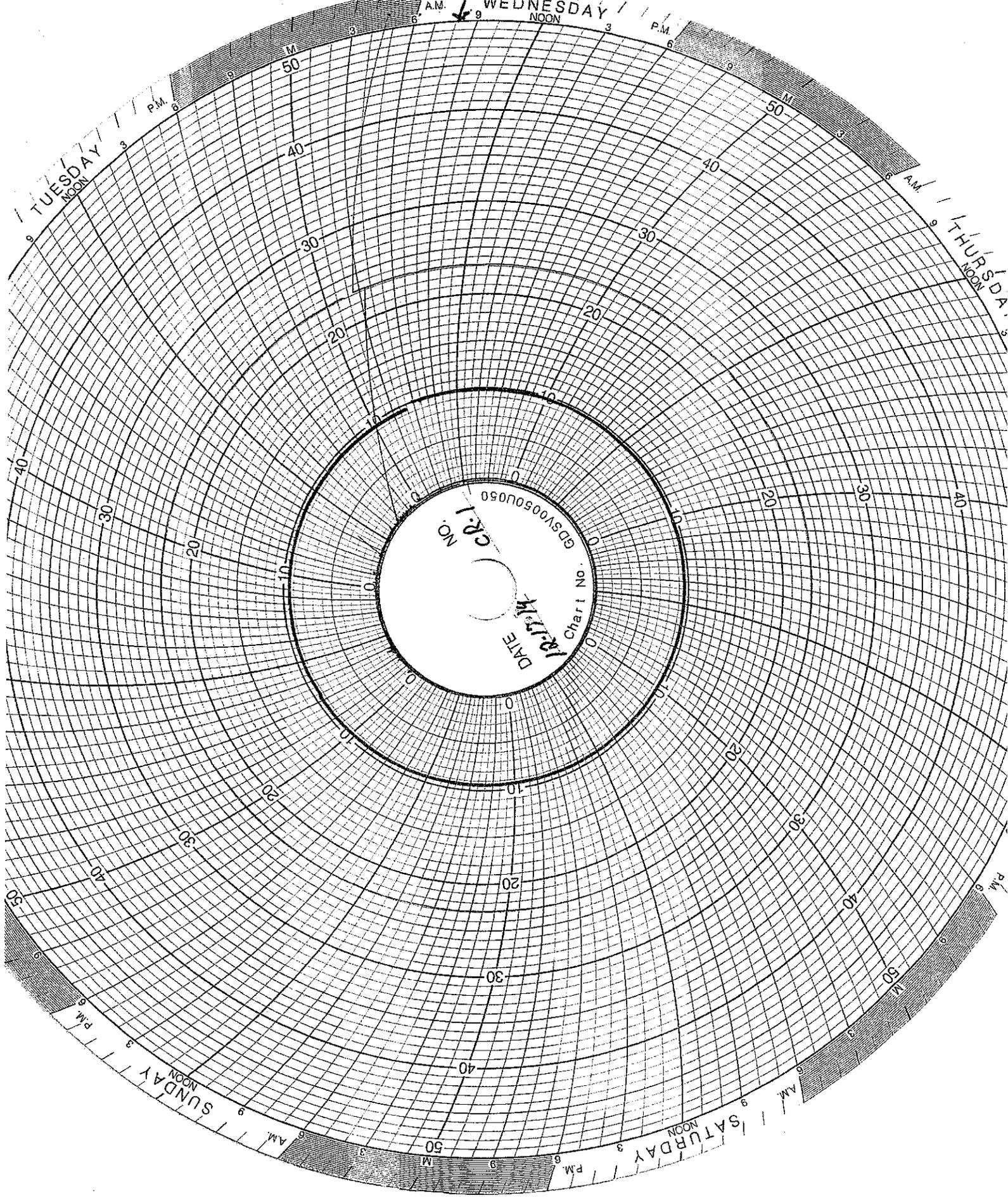
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A.M.

SATURDAY
NOON

P.M.

DATE 12-10-1911
Char 1 No. GDSV0060U050
C.R. 11



DATE 12-17-74
Chart No. GDSV005050
NO. CP-1

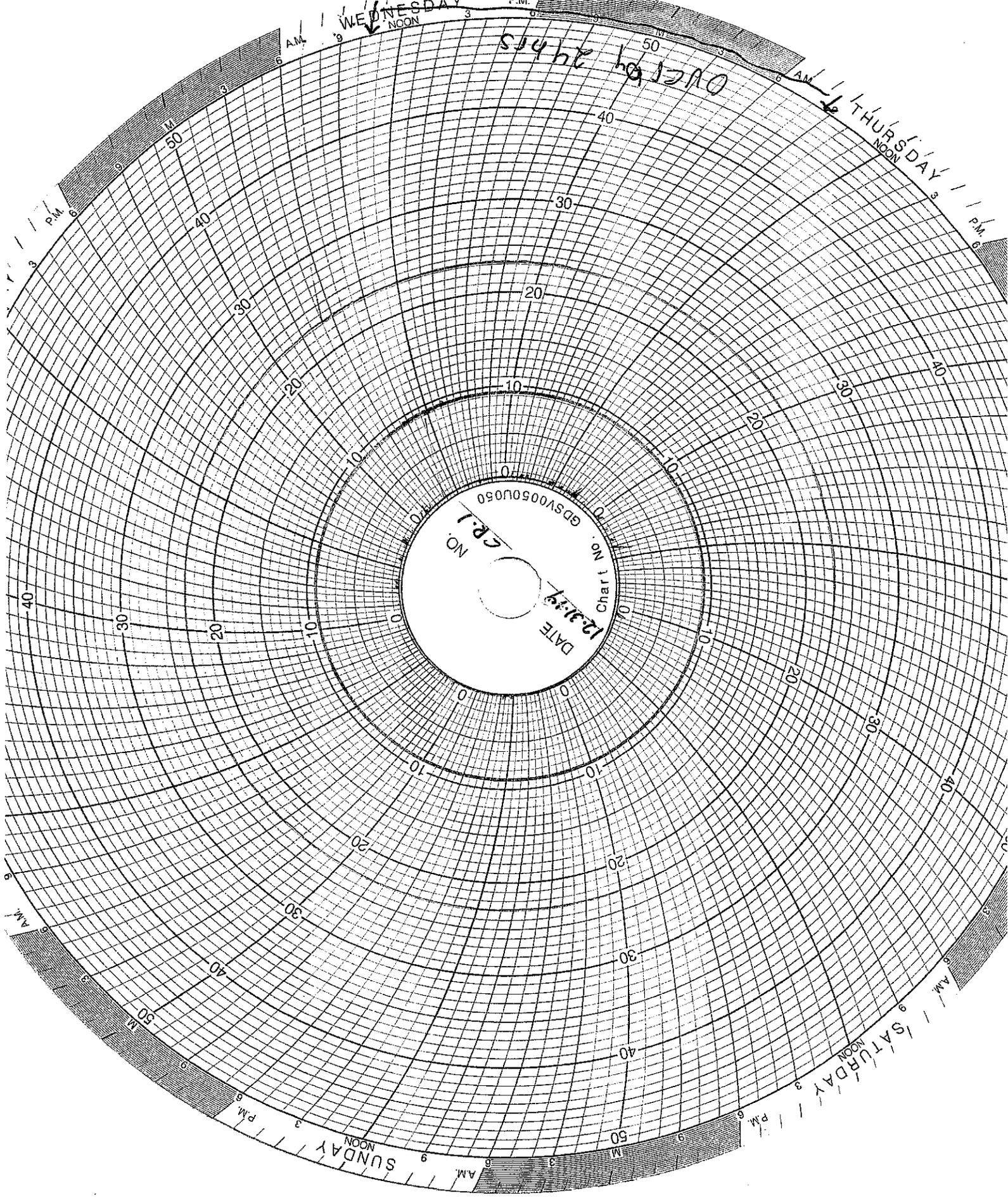
TUESDAY
NOON

WEDNESDAY
NOON

THURSDAY
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SUNDAY
NOON

SATURDAY
NOON



Over by 1200

WEDNESDAY
NOON

THURSDAY
NOON

FRIDAY
NOON

SATURDAY
NOON

DATE
12/21/50
Chart No. GDSV0050U050
NO. 291

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)
12/1/2014	0.00	0.00	17.50	17.50	300.00	300.00	0.00	0.00	0.00	0.00	300.00	300.00
12/2/2014	0.00	0.00	17.50	17.50	300.00	300.00	0.00	0.00	0.00	0.00	300.00	300.00
12/3/2014	0.00	0.00	17.20	17.20	300.00	300.00	0.00	0.00	0.00	0.00	300.00	300.00
12/4/2014	0.00	0.00	17.10	17.40	300.00	300.00	0.00	0.00	0.00	0.00	300.00	300.00
12/5/2014	0.00	0.00	17.20	16.50	300.00	300.00	0.00	0.00	0.00	0.00	300.00	300.00
12/6/2014	0.00	0.00	16.40	16.40	300.00	300.00	0.00	0.00	0.00	0.00	300.00	300.00
12/7/2014	0.00	0.00	16.30	16.40	300.00	300.00	0.00	0.00	0.00	0.00	300.00	300.00
12/8/2014	0.00	0.00	16.40	16.40	300.00	300.00	0.00	0.00	0.00	0.00	300.00	300.00
12/9/2014	0.00	0.00	17.20	17.20	300.00	300.00	0.00	0.00	0.00	0.00	300.00	300.00
12/10/2014	0.00	0.00	17.20	17.20	300.00	300.00	0.00	0.00	0.00	0.00	300.00	300.00
12/11/2014	0.00	0.00	15.50	18.00	285.00	285.00	0.00	0.00	0.00	0.00	300.00	300.00
12/12/2014	0.00	0.00	17.20	17.20	285.00	465.00	0.00	7.88	0.00	0.00	300.00	510.00
12/13/2014	0.00	0.00	17.20	17.20	465.00	465.00	0.30	0.61	0.00	0.00	510.00	510.00
12/14/2014	0.00	0.00	17.20	17.20	465.00	465.00	0.61	3.33	0.00	0.00	510.00	510.00
12/15/2014	0.00	0.00	15.80	17.80	465.00	465.00	3.33	7.27	0.00	0.00	510.00	510.00
12/16/2014	0.00	0.00	15.50	17.80	285.00	465.00	6.67	7.58	0.00	0.00	300.00	510.00
12/17/2014	0.00	705.00	15.00	17.00	285.00	960.00	6.67	7.58	0.00	72.00	216.00	330.00
12/18/2014	0.00	726.00	17.00	17.00	189.00	1065.00	6.67	6.97	0.00	46.00	186.00	342.00
12/19/2014	0.00	0.00	17.20	17.20	276.00	276.00	6.97	7.27	0.00	0.00	300.00	300.00
12/20/2014	0.00	0.00	17.20	17.20	276.00	276.00	7.27	7.27	0.00	0.00	300.00	300.00
12/21/2014	0.00	0.00	17.20	17.20	276.00	276.00	7.27	7.27	0.00	0.00	300.00	300.00
12/22/2014	0.00	696.00	16.00	18.00	210.00	1041.00	7.27	7.88	0.00	76.00	210.00	312.00
12/23/2014	0.00	684.00	15.50	17.70	204.00	960.00	6.97	9.70	0.00	68.00	201.00	360.00
12/24/2014	90.00	702.00	15.20	17.70	315.00	990.00	6.97	10.61	0.00	72.40	210.00	330.00
12/25/2014	108.00	108.00	17.00	17.00	321.00	321.00	7.27	7.27	0.00	0.00	210.00	210.00
12/26/2014	0.00	717.00	15.40	18.00	231.00	1056.00	6.97	10.30	0.00	48.00	240.00	345.00
12/27/2014	0.00	0.00	17.50	17.50	228.00	231.00	7.27	7.27	0.00	0.00	240.00	240.00
12/28/2014	0.00	0.00	17.70	17.70	225.00	225.00	7.27	7.27	0.00	0.00	240.00	240.00
12/29/2014	0.00	696.00	15.90	18.00	225.00	960.00	6.97	7.58	0.00	60.00	225.00	336.00
12/30/2014	60.00	60.00	17.00	17.00	330.00	330.00	6.97	7.58	0.00	0.00	270.00	270.00
12/31/2014	60.00	60.00	17.00	17.50	330.00	330.00	6.97	7.27	0.00	0.00	210.00	240.00

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

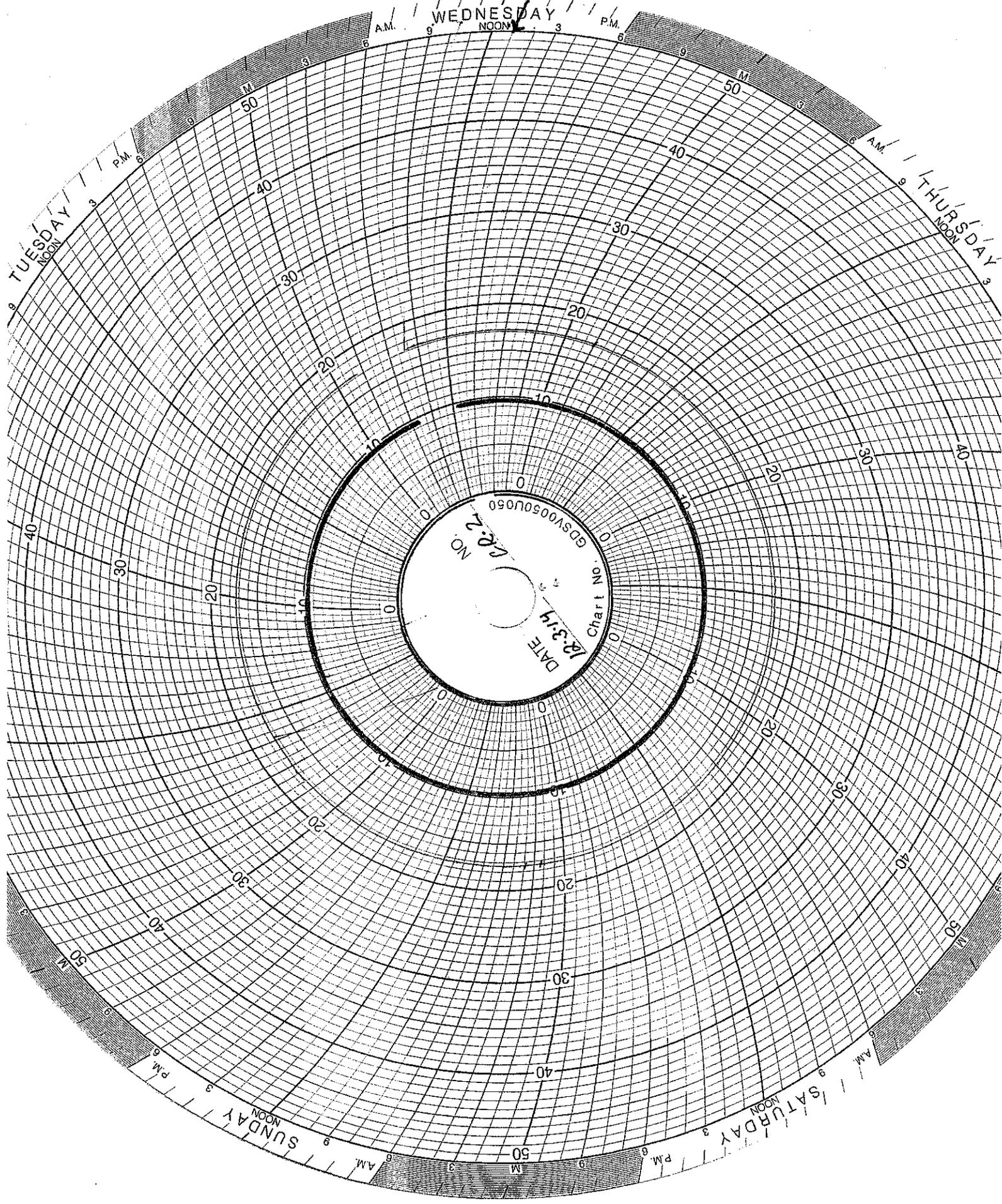
Red Pen - Well 1 Monthly Volume

Channel #3

Green Pen - Well 2 Monthly Volume

Channel #4

Black Pen - Temperature



WEDNESDAY
NOON

TUESDAY
NOON

THURSDAY
NOON

SUNDAY
NOON

SATURDAY
NOON

NO. 22

DATE 12-31-14

Chart No. 05005050

9 A.M. 6 P.M. 9 A.M. 6 P.M. 9 A.M. 6 P.M. 9 A.M. 6 P.M.

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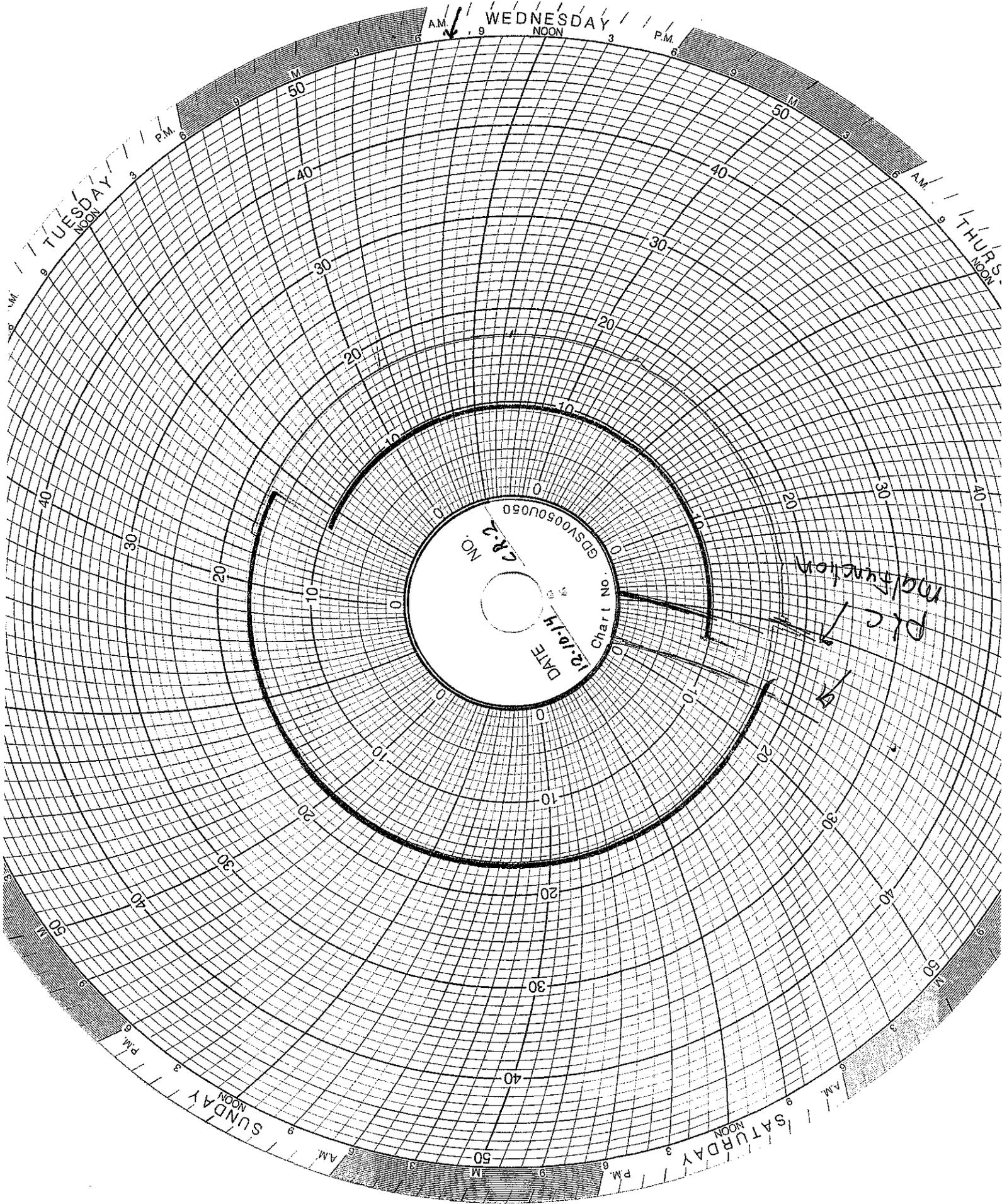
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WEDNESDAY
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TUESDAY
NOON

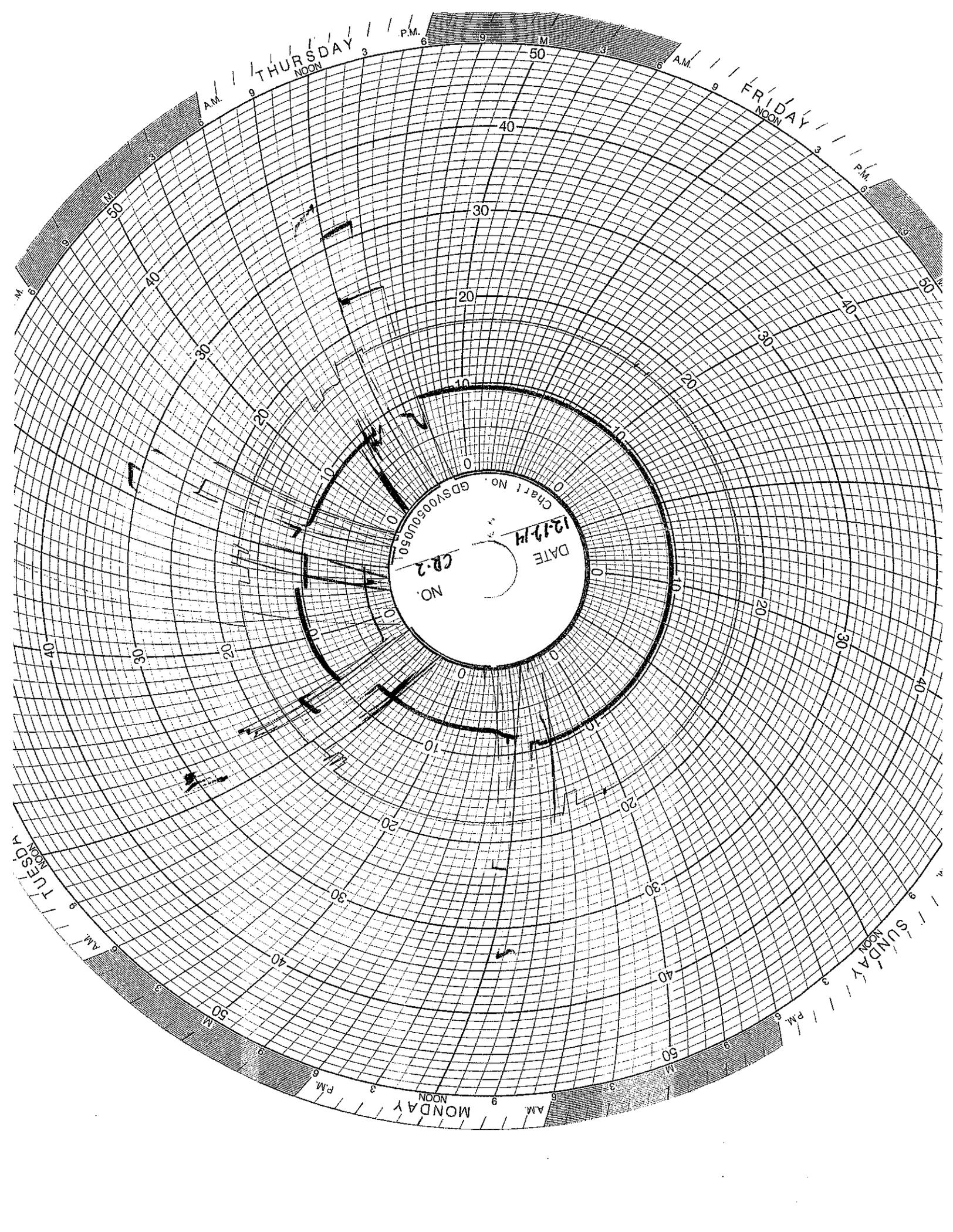
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SATURDAY
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DATE 12-10-14
Chart No. GDSV0050U050
CR 2
NO. 10

PIC
mod/function



THURSDAY
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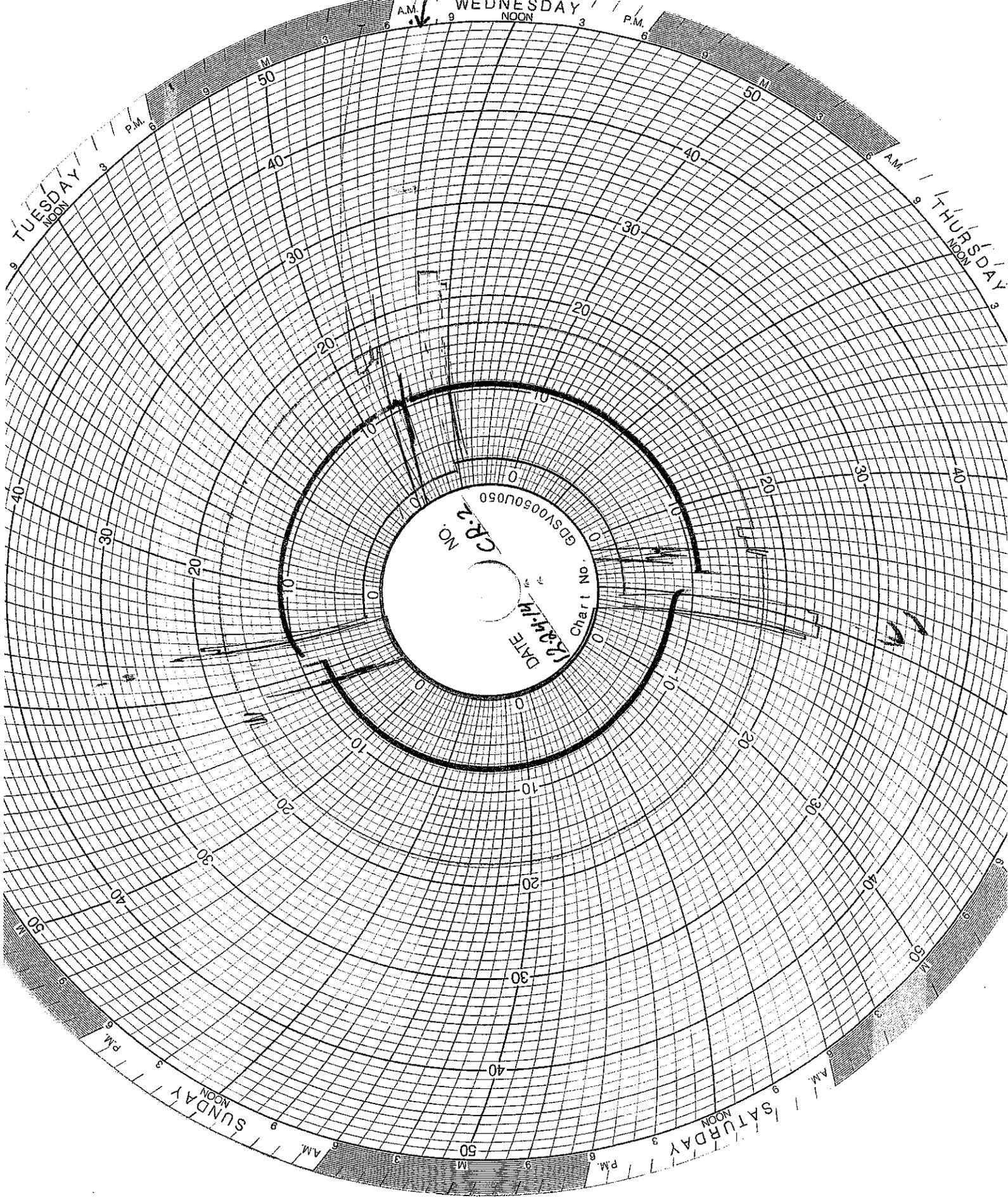
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SUNDAY
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MONDAY
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TUESDAY
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DATE 12-17-14
Chart No. GDSY0050U050



WEDNESDAY
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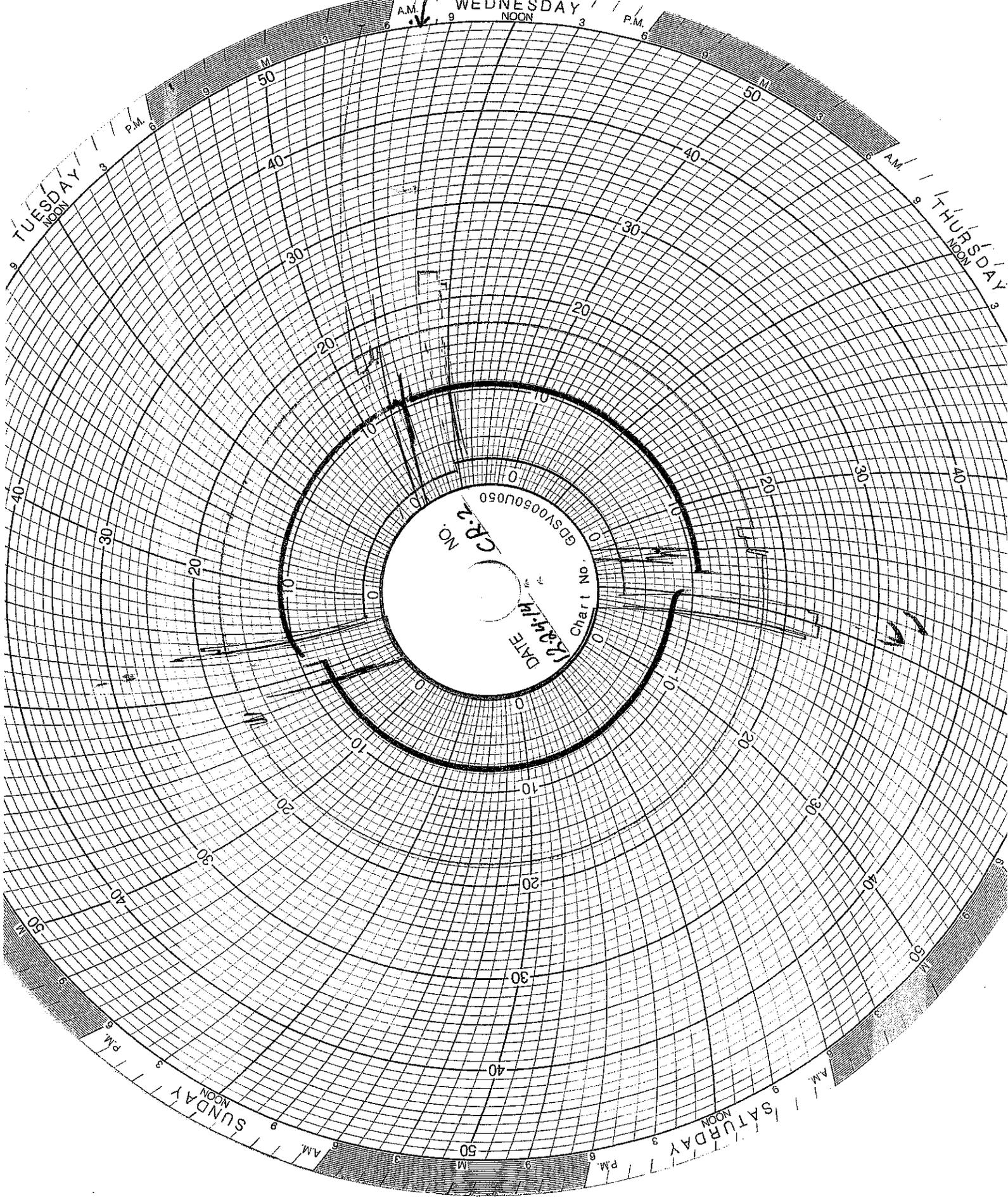
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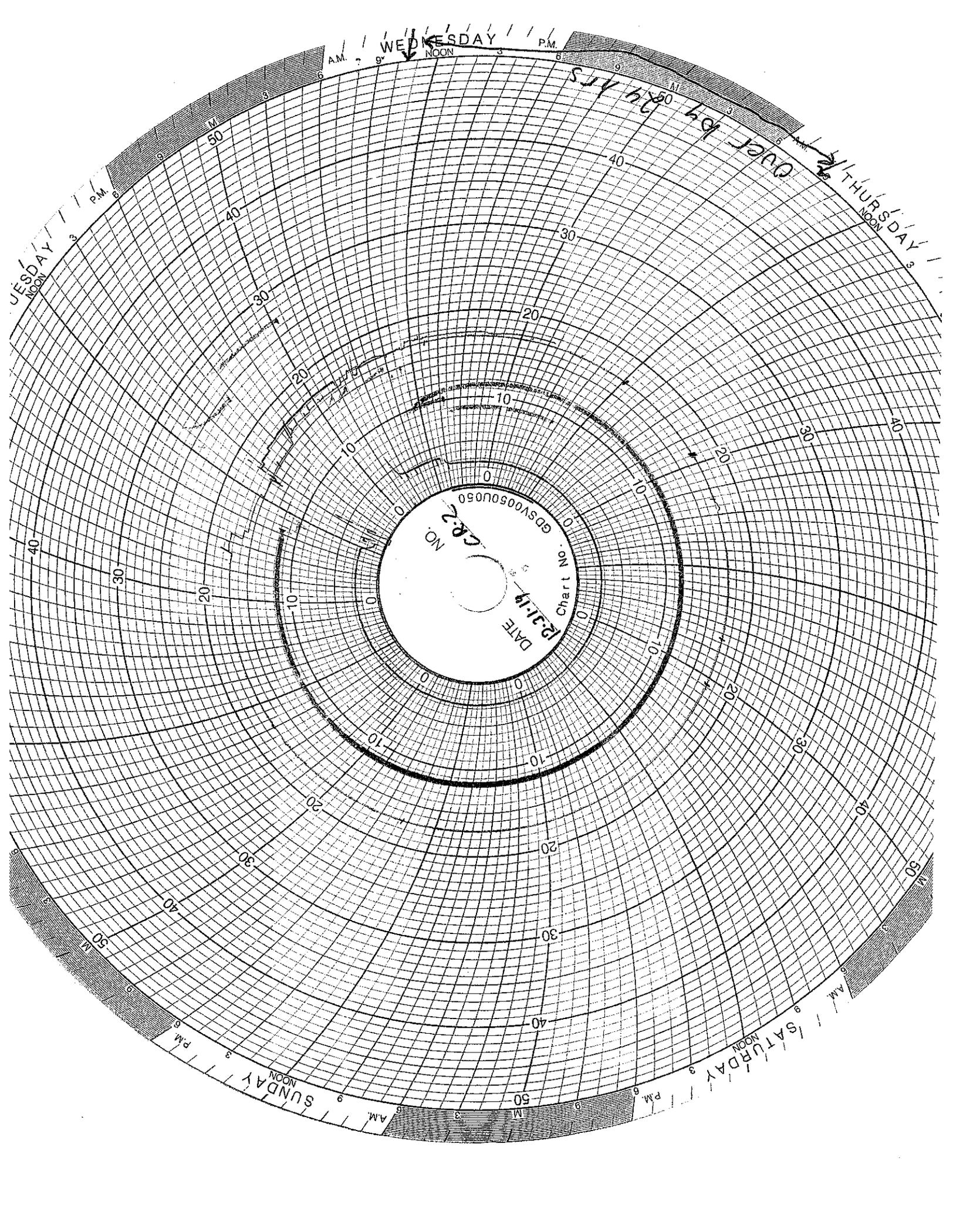
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SATURDAY
NOON





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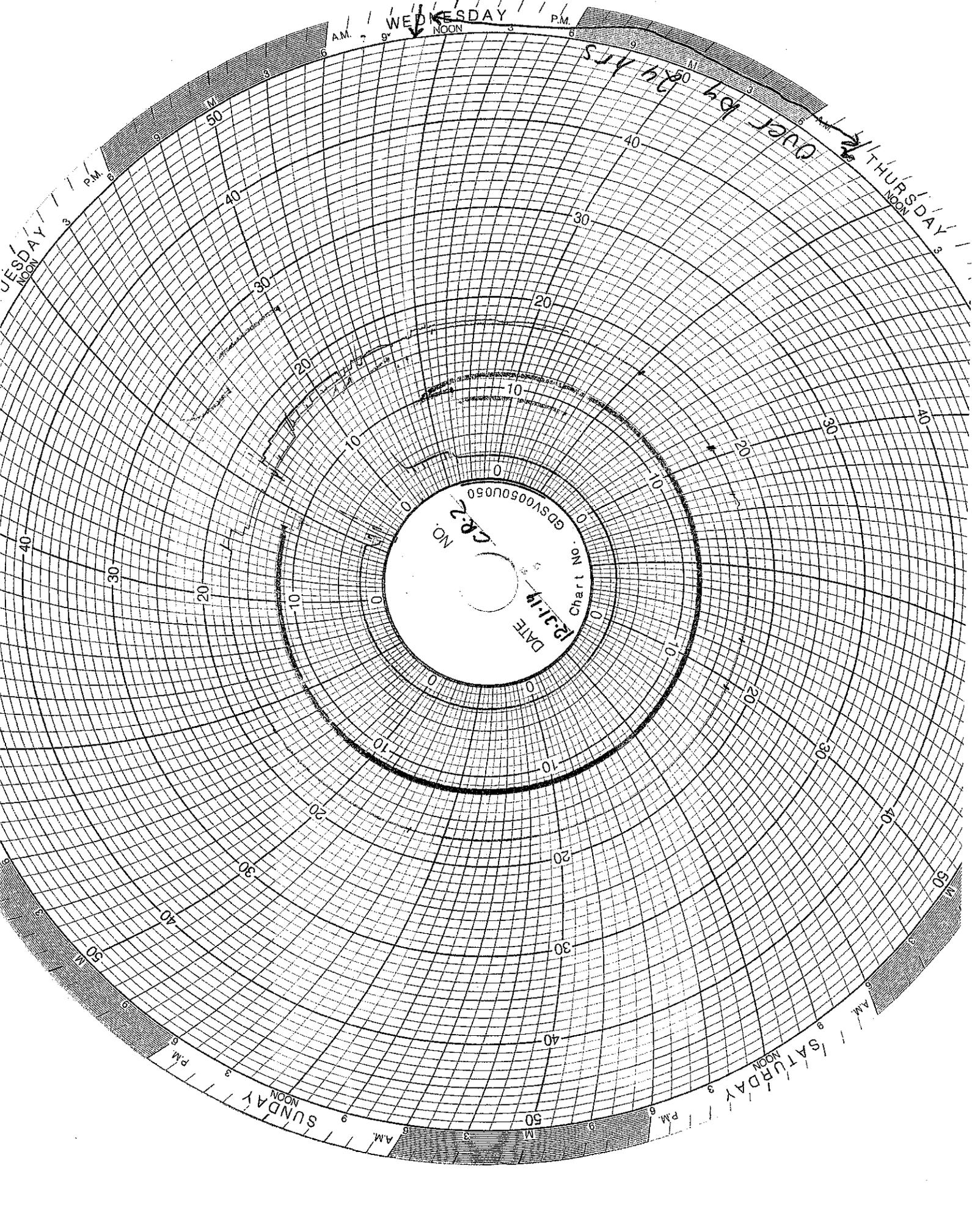
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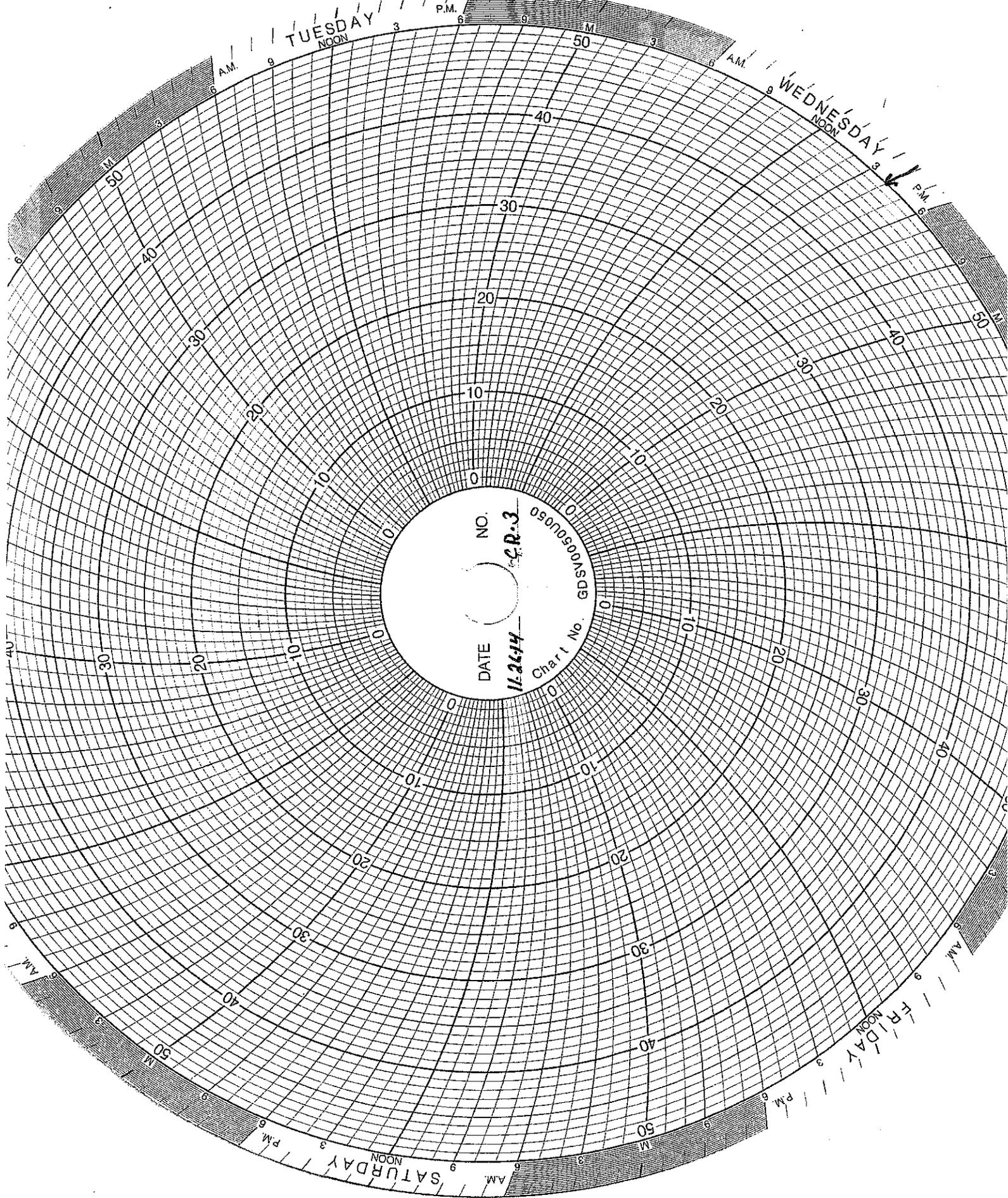
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SUNDAY
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Chart by 29 hrs

DATE 12-31-19
NO. 282
Chart No. GDSV0050U050





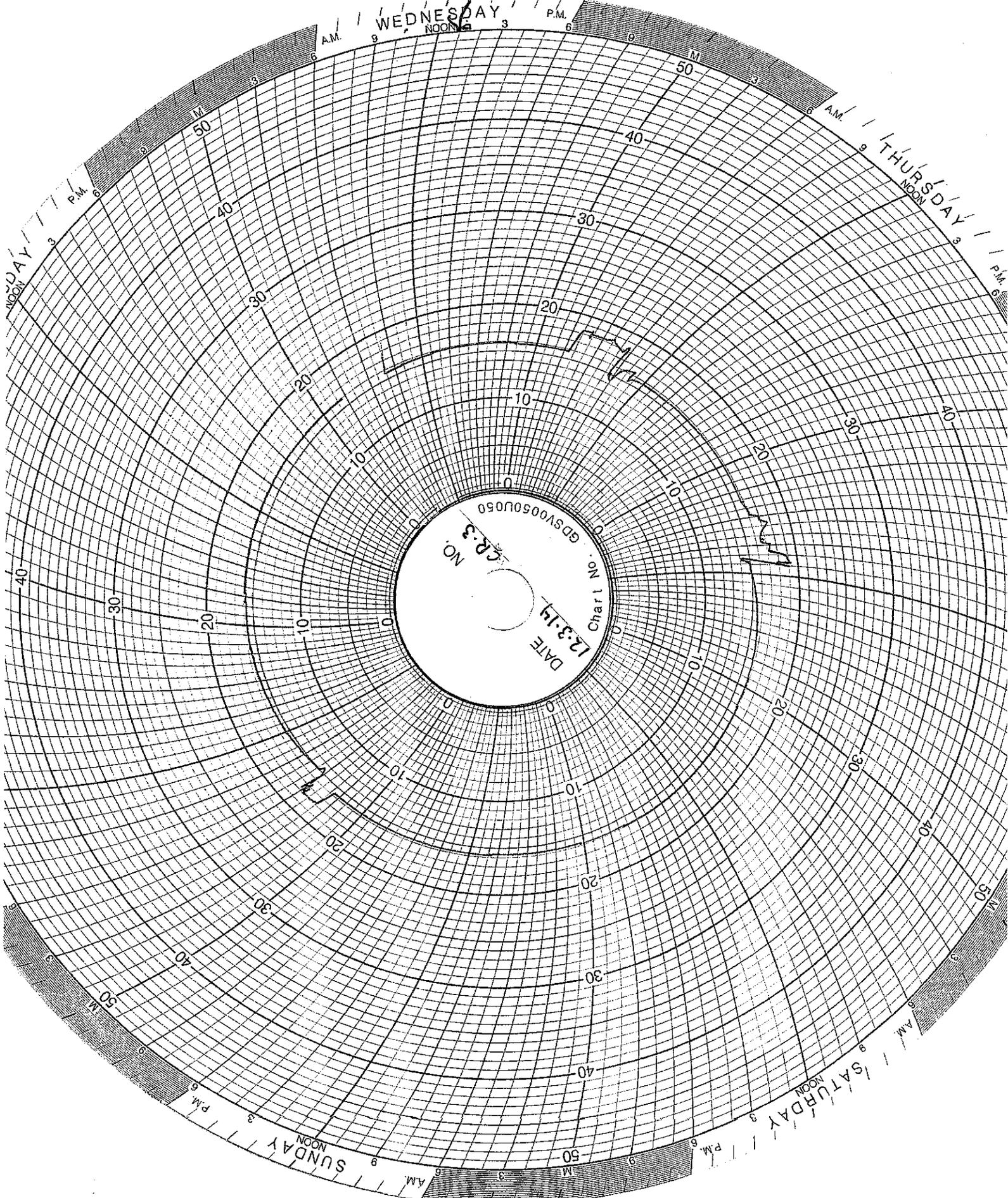
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WEDNESDAY
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SATURDAY
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FRIDAY
NOON

DATE 11-21-74
NO. 423
Chart No. 630505058
C.D. 3



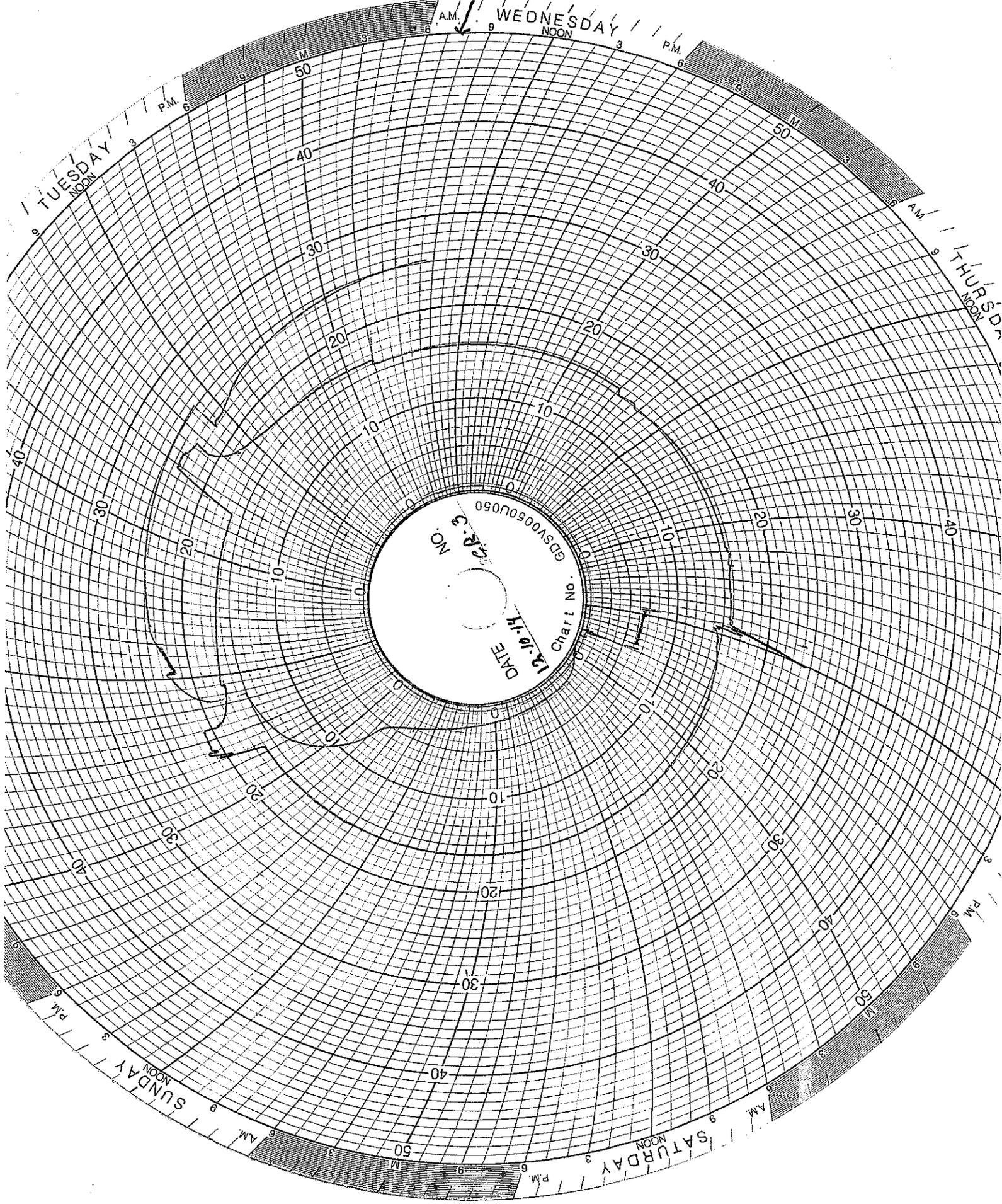
WEDNESDAY

THURSDAY

SUNDAY

SATURDAY

DATE 12-3-14
Char. No. GDSV0050U050
C.P. 3 NO.



WEDNESDAY
NOON

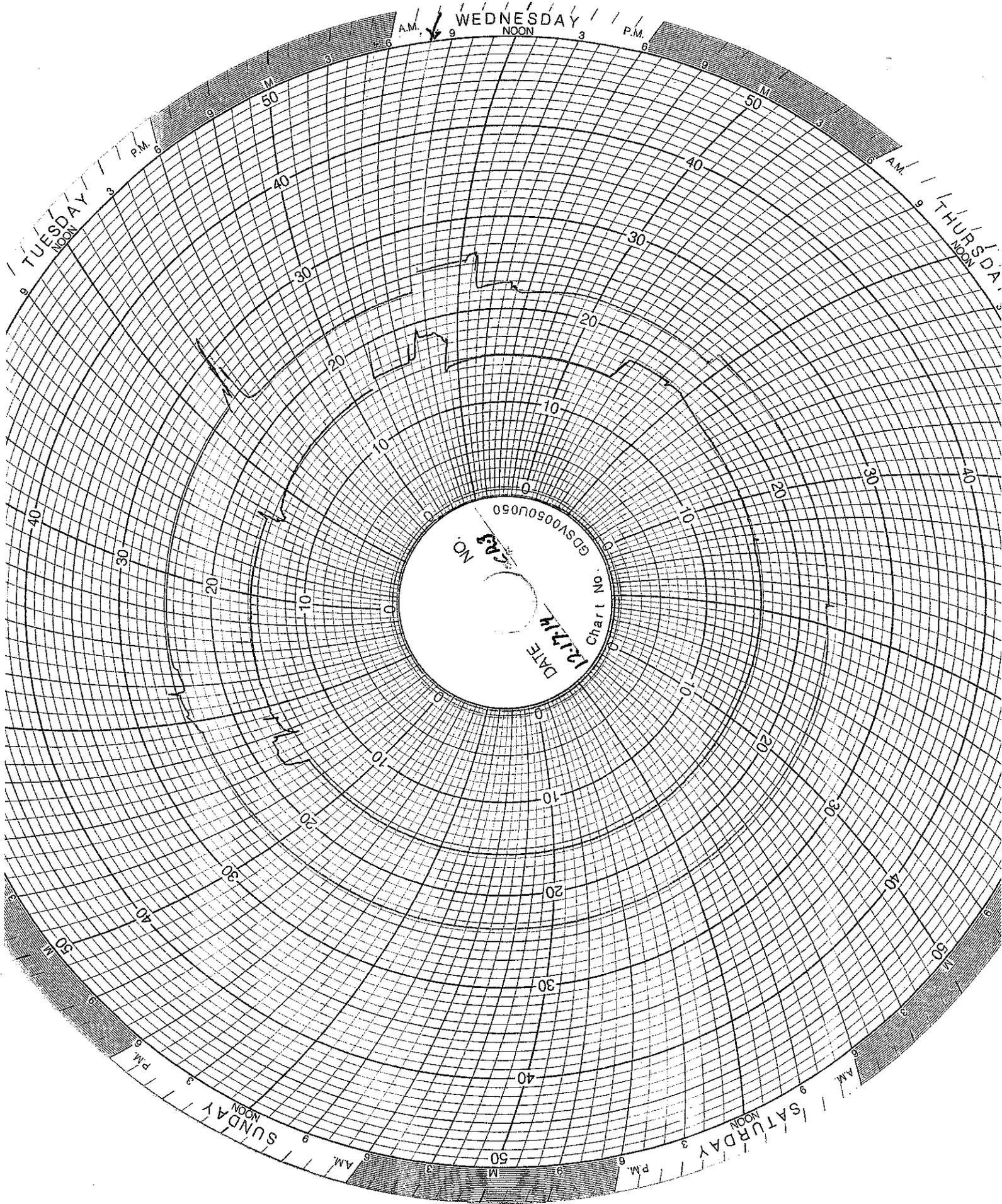
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THURSDAY
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SUNDAY
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SATURDAY
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DATE 12.10.14
Chart No. GDSV0050U050
NO. 20.3



WEDNESDAY
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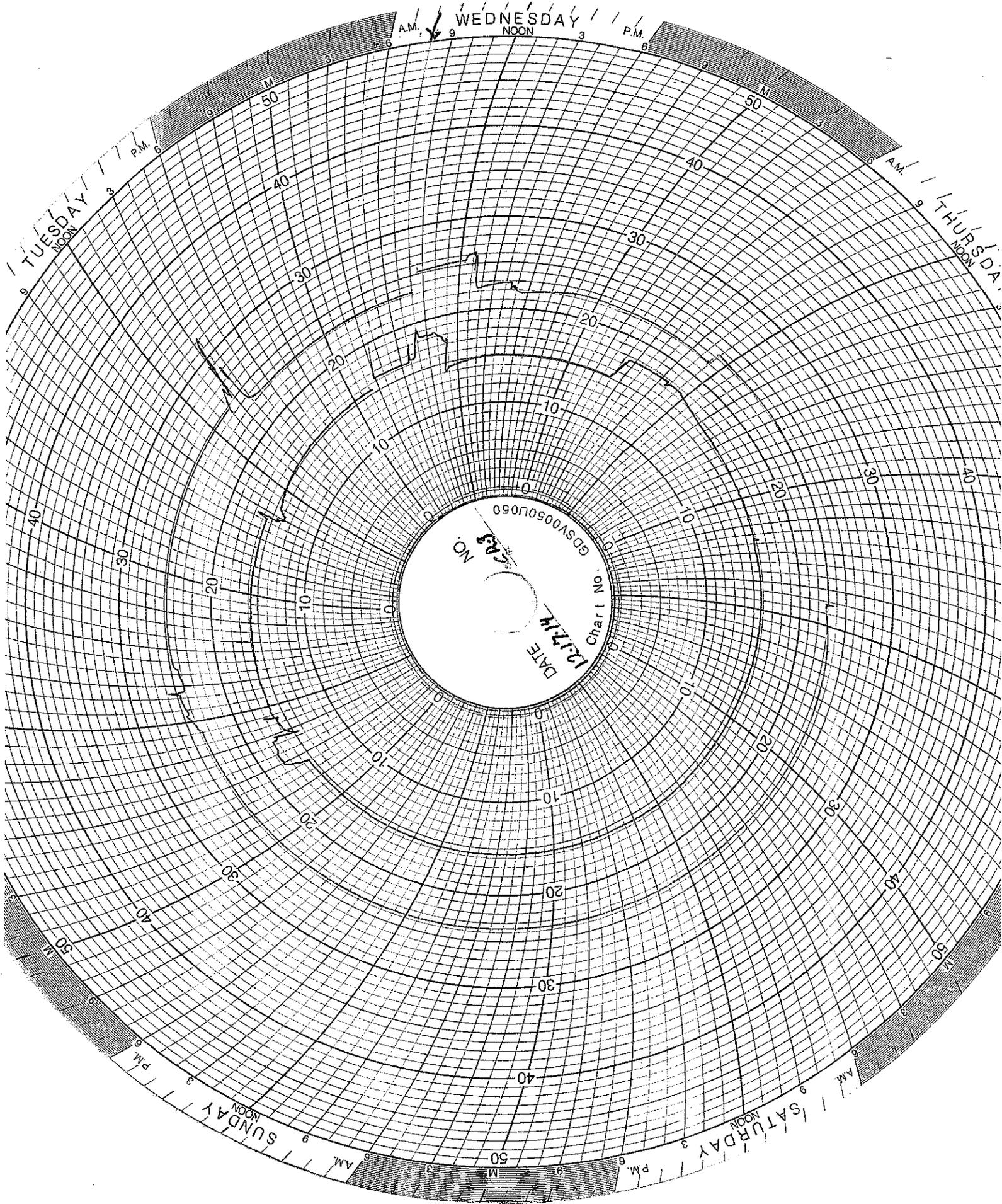
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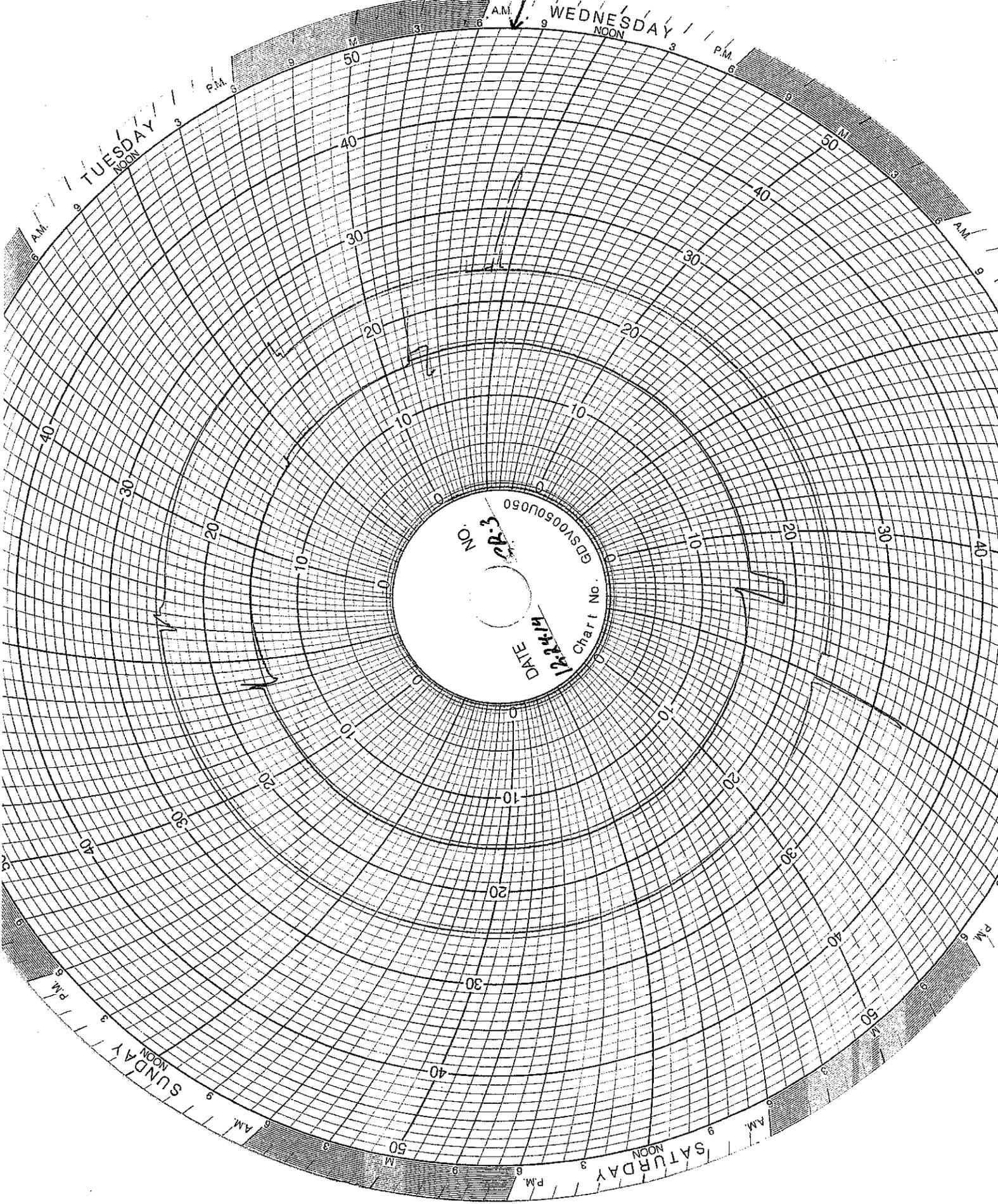
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SUNDAY
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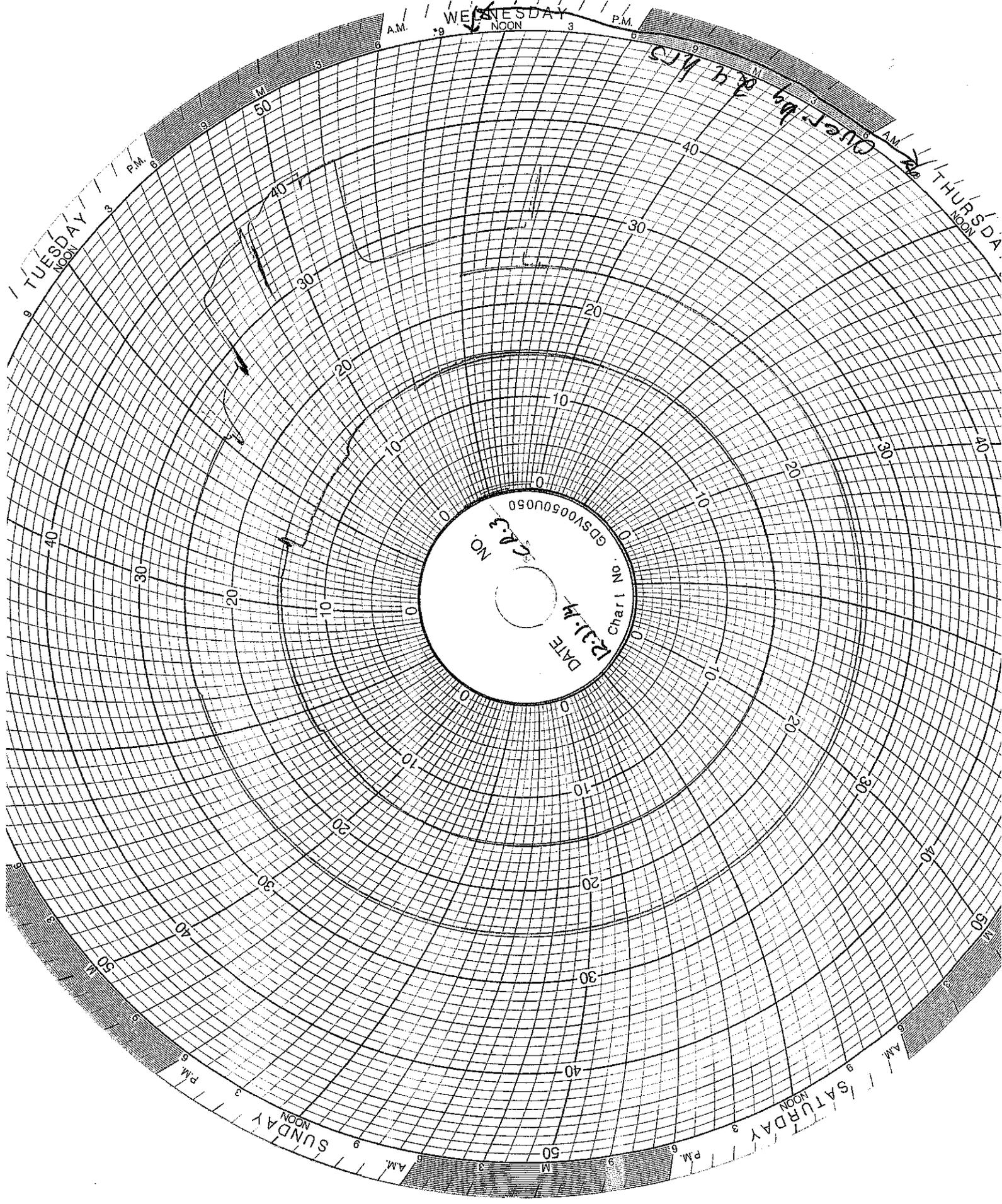
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DATE 12/17/74
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DATE 12-24-74
Chart No. GDSV0050U050
NO. 3



DATE 12-11-50
Charl. on GPSV0050U050
NO. C. 3

Overby 24 hrs

SUNDAY

SATURDAY

TUESDAY

WEDNESDAY

THURSDAY

MAINTENANCE LOG

UIC Monthly Maintenance Log

No maintenance was performed on the wells in December

CORROSION MONITORING

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. C. #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:

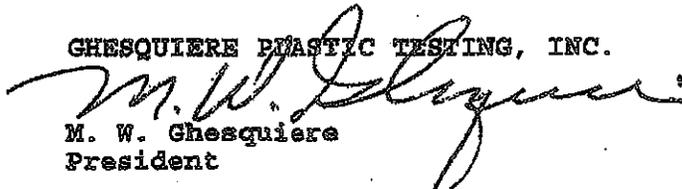
BARCOL HARDNESS

Hardness

Specimen 1	90
------------	----

Specimen is being returned with this report for further evaluation.

GHESQUIERE PLASTIC TESTING, INC.


M. W. Ghesquiere
President

MWG/kni

GHESEQUIERE 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:

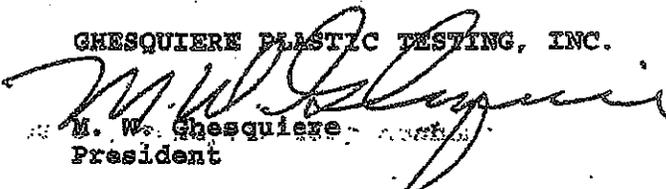
BARCOL HARDNESS

Hardness

Specimen 1: 90

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

GHESEQUIERE 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:

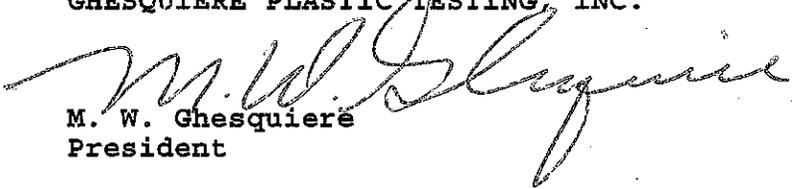
The following determination was made based upon the above test:

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

October 2, 2014

▪ **TEST REPORT** ▪

PN 118325

PO Attn: John Frost

PLASTICS TESTING DEPARTMENT

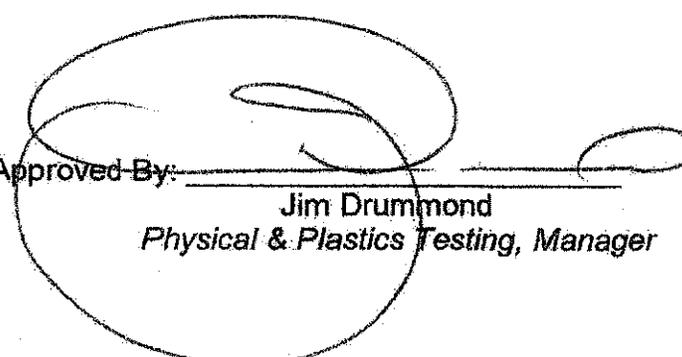
Prepared For:

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
ISO 9001:2008 Registered

ISO 9001:2008
Registered

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www.ardl.com

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

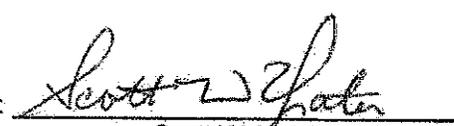
Prepared By:



Melissa Martin
Sr. Project Technician

st

Approved By:



Scott W. Yates
Plastics Testing Assistant Manager

www.ardl.com

2887 Gilchrist Rd. | Akron, Ohio 44305 | answers@ardl.com
Toll Free (800) 830-ARDL | Worldwide (330) 794-6600 | Fax (330) 794-6610

CORROSION MONITORING COUPONS BASELINE VISUAL DESCRIPTION

November 4, 2013

Fiberglass

The fiberglass coupon is Red Box 2000 type and is 2-1/2 inches long by 1/2 inch wide and 1/4 inches thick. It is a dark orange (rust) in color with a glossy shine on one side a polished look on the opposite side and the cut edges look sanded.

Hastelloy

The hastelloy coupon is identified as C276 with serial number 1. The dimensions of the coupon are 3 inches long by 1/2 inch wide and 1/4 inch thick. The coupon is silver in color with a lightly sandblasted surface.

Stainless Steel

The stainless steel coupon is identified as 316L with serial number C1562. The dimensions of the coupon are 3 inches long by 1/2 inch wide and 1/4 inch thick. The coupon is silver in color with a lightly sandblasted surface.

**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	

Black material on all coupons that is not able to be scrubbed off is adding additional weight compared to November measurements.

CORROSION MONITORING COUPONS VISUAL DESCRIPTION

December 19, 2014

Fiberglass Coupon

The fiberglass coupon is Red Box 2000 type with dimensions of 2-1/2 inches long by 1/2 inch wide by 3/16 inches thick. It is dark orange (rust) in color with similar semi-smooth textures on both sides. Its cut edges appear sanded. The coupon has darkened areas that can't be removed by scrubbing causing a weight increase of since November 2014. It weighs 7.084 grams. There is not pitting or surface deterioration.

Hastelloy Coupon

The Hastelloy coupon is identified as C276 with Serial Number 1. 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 texture. No pitting, cracking or deterioration is present.

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 has darkened areas that can't be removed by scrubbing. Dark deposits have filled the pock-marked holes causing a weight increase since November 2014. The coupon is silver in color with a pock-marked and deteriorated surface.

**INJECTION
FINGERPRINTS**

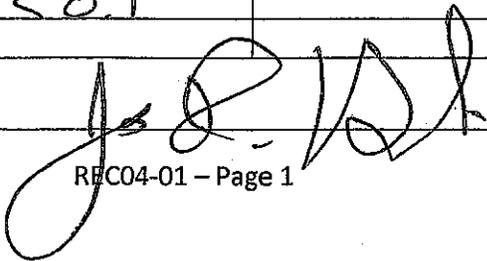
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	12/01/14
Receiving ID#	I12011401
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		Onfield 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.)	0.8	Bicarbonate	
Cyanides? (mg/L)		Carbonate	
Sulfides? (ppm)		TDS	8.27
Specific Gravity	1.16	Resistivity	
Physical Description		Sulfate	
Stream Consistency	Yes No		
Oil in Sample	Yes No		
Temperature	63°F		
Conductivity	1164.1 μS		
% Solids	8.2		
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	12/1/14
Receiving ID#	I12011402
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	SAH

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.)	1.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.17	TDS	812
Physical Description	1	Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	64°F		
Conductivity	162.6 mS		
% Solids	8.1		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature	J. H. SAH		

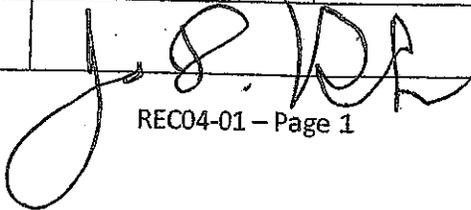
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	12/2/14
Receiving ID#	IL12021401
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	EGT
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	AK

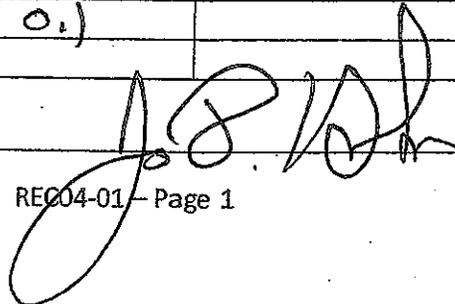
COPY

LAB INFORMATION		Off-field Sites Only	
All Waste Streams			
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.)	0.6	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	10.3%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	70°F		
Conductivity	207.3ms		
% Solids	10.3		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	12/4/14
Receiving ID#	E12041401
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		Oil Field Blines Only	
All Waste Streams:			
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.)	1.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.07	TDS	4.17,
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	70°F		
Conductivity	81.2 mS		
% Solids	4.1		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

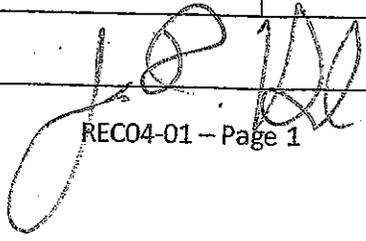
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	12/05/14
Receiving ID#	E12051401
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	EGT
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	D.H.

COPY

LAB INFORMATION		Oilfield Brines Only	
All Waste Streams			
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.)	2.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.00	TDS	0.47
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	66°F		
Conductivity	8.6 mS		
% Solids	0.4		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

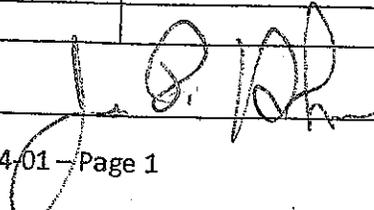
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	12/05/14
Receiving ID#	I12051402
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	EGT
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.)	2.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.15	TDS	6.37
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	69°F		
Conductivity	125.6 mS		
% Solids	6.3		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

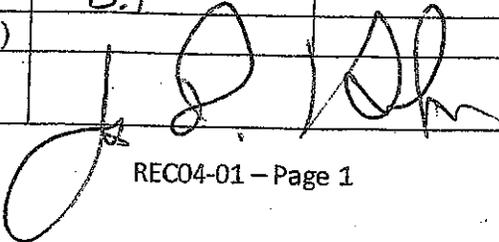
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	12/12/14
Receiving ID#	E 12/21401
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 All Waste Shipments		Oilfield Shines 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.)	< 0.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.36	TDS	29.87
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	86°F		
Conductivity	> 400.0 mS		
% Solids	29.9		
Turbidity	Yes No		
Color (visual)			
TSS (%)	0.1		
Radiation Screen (as needed)			
Lab Signature			

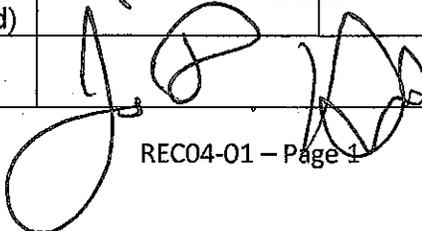
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	12/16/14
Receiving ID#	I12161401
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	D.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.)	< 0.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.25	TDS	34.1%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	82°F		
Conductivity	> 400.0 mS		
% Solids	34.1		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

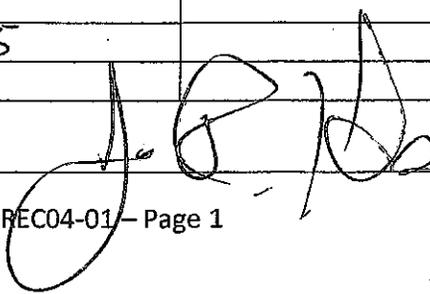
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	12/17/14
Receiving ID#	I12171401
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	EGT
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	D.H.

COPY

LAB INFORMATION		Oilfield Brines Only	
All Waste Shipments			
Compatible? (RT#)	<u>Yes</u> 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	1.16	TDS	32.6%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	70°F		
Conductivity	> 400.0 mS		
% Solids	33.1		
Turbidity	Yes No		
Color (visual)			
TSS (%)	0.5		
Radiation Screen (as needed)			
Lab Signature			

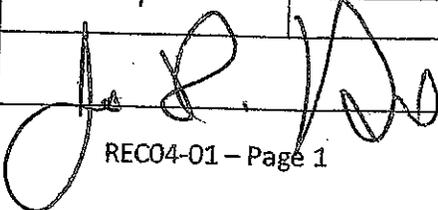
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	12/18/14
Receiving ID#	112181401
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	EGT
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	D.H.

COPY

LAB INFORMATION		Oilfield Brines Only	
All Waste Streams			
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.)	0.8	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.15	TDS	7.87
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	65°F		
Conductivity	155.9 mS		
% Solids	7.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

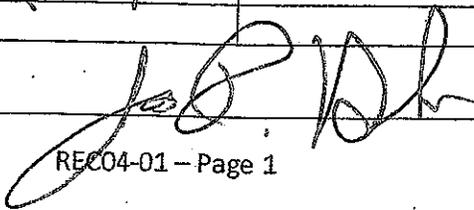
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	12/22/14
Receiving ID#	I1222-401
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

ANALYTICAL INFORMATION		Oil Field 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.)	1.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	5.87
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	65°F		
Conductivity	114.8 μS		
% Solids	5.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	40.1		
Radiation Screen (as needed)			
Lab Signature			

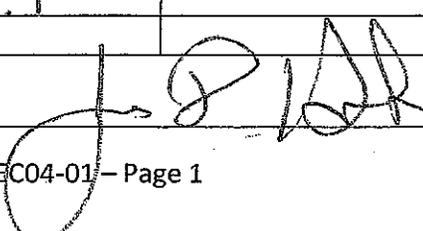
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	12/26/14
Receiving ID#	I12261401
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	DM

COPY

LAB INFORMATION		Oilfield Brines Only	
All Waste Shipments		Barium	
Compatible? (RT#)	<input checked="" type="radio"/> Yes <input type="radio"/> No	Calcium	
PCBs (ppm)(Oily Waste Only)?		Total Iron	
TOC (ppm)(CC Waste Only)?		Magnesium	
Flash Point (°F)	140	Sodium Chloride	
pH (S.U.)	0.5	Bicarbonate	
Cyanides? (mg/L)		Carbonate	
Sulfides? (ppm)		TDS	13.2%
Specific Gravity	1.13	Resistivity	
Physical Description		Sulfate	
Stream Consistency	Yes No		
Oil in Sample	Yes No		
Temperature	67°F		
Conductivity	265.2ms		
% Solids	13.2		
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	12-31-14
Receiving ID#	I1231401
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

COPY

LAB INFORMATION		Oilfield Brines Only	
All Waste Shipments			
Compatible? (RT#)	<u>Yes</u> 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	1.06	TDS	10.4%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	59°F		
Conductivity	208.6 mS		
% Solids	10.4		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature	<i>[Signature]</i>		

**WASTE STREAMS
CHARACTERIZATIONS**