# Magnitude 7 Metals LLC

STACK SAMPLE RESULTS

METHOD 14
LINE 1

Run Number 3 | 2/18/2020 - 2/19/2020 | EPA Method # 5 & 14

| | | |
|---|---|---|
| METER VOLUME | 1005.800 | CU. FT. |
| SQUARE ROOT OF DELTA P | 0.286 | SQ. ROOT IN. WATER |
| AVERAGE DELTA H | 1.566 | IN. WATER |
| METERED GAS TEMPERATURE | 73.7 | DEG. F |
| STATIC PRESSURE IN STACK | -0.25 | IN. WATER |
| STACK TEMPERATURE | 66.0 | DEG. F |
| BAROMETRIC PRESSURE | 30.14 | IN. Hg |
| PROBE TIP DIAMETER | 0.3681 | INCHES |
| GAS METER CORRECTION FACTOR | 0.993 | |
| TOTAL SAMPLING TIME | 1395.0 | MINUTES |
| TOTAL WATER COLLECTED | -25.2 | GRAMS |
| MOLECULAR WEIGHT | 28.8 | LB/LB-MOLE |
| SAMPLING DUCT AREA | 1.25 | SQ. FT. |
| TOTAL PARTICULATE COLLECTED | 0.0450 | GRAMS |
| GASEOUS FLUORIDE COLLECTED | 0.02031 | GRAMS |
| PARTICULATE FLUORIDE COLLECTED | 0.01014 | GRAMS |
| AVG ALUMINUM PRODUCTION RATE | 447169 | LBS./DAY/LINE |
| MANIFOLD ANEMOMETER VELOCITY | 125.3 | FT./MIN. |
| MANIFOLD THERMOCOUPLE TEMPERATURE | 77.0 | DEG. F |
| AVERAGE ROOF EXIT VELOCITY | 126.9 | FT./MIN. |
| AVERAGE ROOF EXIT TEMPERATURE | 73.4 | DEG. F |
| VOLUMETRIC FLOWRATE OUT ROOF | 8104850 | ACFM/LINE |
| VOLUME GAS SAMPLED | 999.660 | SCF |
| MOISTURE IN STACK GAS | -0.119 | % |
| VELOCITY OF STACK GAS (ACTUAL) | 959 | FT./MIN. |
| VOLUMETRIC FLOWRATE IN DUCT | 1213 | SCFM |
| PERCENT ISOKINETIC - TRAIN TO DUCT | 99.95 | % |
| VOLUMETRIC FLOWRATE OUT ROOF | 8091363 | SCFM/LINE |
| PERCENT ISOKINETIC - MANIFOLD TO ROOF | 69.04 | % |
| SECONDARY PARTICULATE CONCENTRATION | 0.0016 | GRAMS/SCM |
| SECONDARY PARTICULATE CONCENTRATION | 0.00069 | GRAINS/SCF |
| SECONDARY PARTICULATE EMISSION | 48.18 | LBS./HR. |
| SECONDARY PARTICULATE EMISSION | 5.17 | LBS./TON |
| PRIMARY PARTICULATE EMISSION | 2.45 | LBS./TON |
| PRIMARY AND SECONDARY PARTICULATE EMITTED | 7.62 | LBS./TON |
| GASEOUS FLUORIDE CONCENTRATION | 0.717 | MG./SCM |
| GASEOUS FLUORIDE CONCENTRATION | 0.000314 | GRAINS/SCF |
| PARTICULATE FLUORIDE CONCENTRATION | 0.358 | MG./SCM |
| PARTICULATE FLUORIDE CONCENTRATION | 0.000157 | GRAINS/SCF |
| TOTAL FLUORIDE CONCENTRATION | 1.076 | MG./SCM |
| TOTAL FLUORIDE CONCENTRATION | 0.000470 | GRAINS/SCF |
| TOTAL FLUORIDE EMISSION | 32.601 | LBS./HR./LINE |
| AVG. ALUMINUM PRODUCTION RATE | 9.32 | TON/HR./LINE |
| TOTAL SECONDARY FLUORIDE EMITTED | 3.499 | LBS./TON |
| TOTAL PRIMARY FLUORIDE EMITTED | 0.658 | LBS./TON |
| TOTAL PRIMARY AND SECONDARY FLUORIDE EMITTED | 4.158 | LBS./TON |

Printed
2/19/2020 10:08 AM

# Stack Sample Results
## Raw Data Averages

METHOD 14 LINE 1

**Start Date:** 2/18/2020 **Stop Date:** 2/19/2020 **Run #:** 3

| Traverse Point | Delta P (in. Water) | Delta H (in. Water) | Meter Temperature (in) | Meter Temperature (out) | Static Pressure (in. Water) | Stack Temperature (Deg. F) |
|---|---|---|---|---|---|---|
| 1-1a | 0.05 | 0.90 | 70 | 70 | -0.22 | 73 |
| 1-1b | 0.05 | 0.93 | 75 | 72 | | 70 |
| 1-2a | 0.08 | 1.50 | 76 | 73 | -0.24 | 72 |
| 1-2b | 0.08 | 1.50 | 75 | 74 | | 65 |
| 1-3a | 0.05 | 0.93 | 75 | 74 | -0.24 | 69 |
| 1-3b | 0.05 | 0.93 | 76 | 76 | | 71 |
| 2-1a | 0.09 | 1.70 | 74 | 74 | -0.25 | 70 |
| 2-1b | 0.09 | 1.70 | 76 | 75 | | 68 |
| 2-2a | 0.10 | 1.85 | 75 | 72 | -0.26 | 67 |
| 2-2b | 0.10 | 1.85 | 77 | 75 | | 67 |
| 2-3a | 0.10 | 1.90 | 71 | 70 | -0.26 | 64 |
| 2-3b | 0.10 | 1.90 | 74 | 73 | | 65 |
| 3-1a | 0.08 | 1.50 | 74 | 72 | -0.24 | 62 |
| 3-1b | 0.08 | 1.50 | 75 | 72 | | 61 |
| 3-2a | 0.10 | 1.90 | 75 | 74 | -0.26 | 62 |
| 3-2b | 0.10 | 1.90 | 72 | 71 | | 60 |
| 3-3a | 0.10 | 1.90 | 72 | 72 | -0.27 | 57 |
| 3-3b | 0.10 | 1.90 | 76 | 76 | | 65 |
| **Averages** | **0.286** (AVG. SQ.RT.) | **1.566** | **73.7** | | **-0.25** | **66.0** |

AP

MAGNITUDE 7 METALS, LLC
METHOD 14 DATA

Run Start Date 2/18/20
Run End Date 2/19/20
Run # 3
Run Start Time 10:00 AM
Run End Time 9:15 AM
Probe Tip SN 2673
Avg. Tip Diameter 0.3681
Delta H 1.74 2% Moisture
Duct Area = 1.25 sq.ft. (assumed)

Line: 1 2 3 East 3 West
ROOF MONITOR

Operators
Alicia Powell
Joe Schneider

Chemist

Digital meter used 2161

Initial L.C. @ 15.0 = 0.002
Final L.C. @ 5 = .0001

Initial Pitot L.C. = NIL
Final Pitot L.C. = NIL

| POINT # | SAMP. TIME Min. | METER VOLUME Cu. Ft. | DELTA P in. $H_2O$ | DELTA H in. $H_2O$ | METER TEMP F IN | METER TEMP F OUT | STATIC PRESS. in. $H_2O$ | STACK TEMP. °F | IMP. TEMP. °F | HOT BOX TEMP. °F | PUMP VAC. in. Hg | SET PT. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-1 | 155 | 076.300 | 0.05 | 0.90 | 70 | 70 | -.22 | 73 | 60 | 155 | 1.0 | 18.38 |
| | | | .05 | .93 | 75 | 72 | | 70 | 62 | 155 | 1.0 | 18.60 |
| 1-2 | 155 | 159.870 | .08 | 1.50 | 76 | 73 | -.24 | 72 | 63 | 155 | 1.2 | 18.57 |
| | | | .08 | 1.50 | 75 | 74 | | 65 | 64 | 155 | 1.2 | 18.80 |
| 1-3 | 155 | 273.100 | .05 | .93 | 75 | 74 | -.24 | 69 | 60 | 155 | 1.0 | 18.67 |
| | | | .05 | .93 | 76 | 76 | | 71 | 61 | 155 | 1.0 | 18.65 |
| 2-1 | 155 | 359.600 | .09 | 1.70 | 74 | 74 | -.25 | 70 | 58 | 155 | 1.3 | 18.62 |
| | | | .09 | 1.70 | 76 | 75 | | 68 | 58 | 155 | 1.3 | 18.74 |
| 2-2 | 155 | 478.450 | .10 | 1.85 | 75 | 72 | -.26 | 67 | 56 | 155 | 1.4 | 18.71 |
| | | | .10 | 1.85 | 77 | 75 | | 67 | 57 | 155 | 1.4 | 18.73 |
| 2-3 | 155 | 601.900 | .10 | 1.90 | 71 | 70 | -.26 | 64 | 54 | 156 | 2.0 | 18.71 |
| | | | .10 | 1.90 | 74 | 73 | | 65 | 57 | 155 | 2.0 | 18.78 |
| 3-1 | 155 | 725.685 | .08 | 1.50 | 74 | 72 | -.24 | 62 | 55 | 155 | 2.0 | 18.87 |
| | | | .08 | 1.50 | 75 | 72 | | 61 | 55 | 155 | 2.0 | 18.92 |
| 3-2 | 155 | 835.800 | .10 | 1.90 | 75 | 74 | -.26 | 62 | 57 | 155 | 1.9 | 18.92 |
| | | | .10 | 1.90 | 72 | 71 | | 60 | 55 | 156 | 2.0 | 18.89 |
| 3-3 | 155 | 944.995 | .10 | 1.90 | 72 | 72 | -.27 | 57 | 55 | 155 | 2.0 | 19.02 |
| | | | .10 | 1.90 | 76 | 76 | | 65 | 59 | 155 | 2.0 | 18.87 |
| FINAL | | 082.100 | | | | | | | | | | |
| S/N | | 8131064 | | | | | 61 | 3-3 | 1-A | 1-H | | |

Nomograph factor: 18.48

Form: SS M14 Raw Data.xls 9/17/18

MAGNITUDE 7 METALS, LLC
METHOD 14 RAW DATA
ROOF MONITOR

Line: 1 Start Date: 2/18/20 Run: 3 Filter: 3B

**PROBE TIP**

SN 2673

DIAMETER MEASUREMENT (in.)

1. Avg
2.
3. .3681
4.
5.
6.
7.
8.

If previous calibration referenced, circle Yes to document visual inspection.

Out of round max. 0.004 in.

CAL. BY: —

CALIPER: MITUTOYO S/N 7002015

NORANDA 0.5" THICKNESS STD # 1 —

**SAMPLER OPERATION**

| PROBE HEAT SETTING | HEATER BOX SETTING |
|---|---|
| 248 deg. F. +/- 25 deg. F. | 165 deg. F. +/- 15 deg. F. |
| Range: 223 - 273 deg. F. | Range: 150 - 180 deg. F. |

PITOT TUBE — Circle to document visual inspection.

SN N9061

Visually inspected? Yes

BAROMETER READING 30.28 (in. Hg)

CORRECTION FACTOR -.14 (in. Hg)

ORIGINAL GASEOUS FLUORIDE SAMPLE VOLUME 1 (liter)

| | | INITIAL WEIGHT (g) | FINAL WEIGHT (g) |
|---|---|---|---|
| IMPINGER # | + 200 ml water | 793.8 | 659.5 |
| IMPINGER # | + 100 ml water | 726.2 | 745.4 |
| IMPINGER # | + EMPTY | 635.2 | 656.7 |
| IMPINGER # | + SILICA GEL | 1098.8 | 1167.2 |
| IMPINGER # | + SILICA GEL | | |
| IMPINGER # | + SILICA GEL | | |
| IMPINGER # | + SILICA GEL | | |
| IMPINGER # | + SILICA GEL | | |

BALANCE: METTLER PJ6000 SNR K59603 WEIGHED BY: SS

2 Kg Class S-1 Calibration Wt. 2000.0 Balance check must be +/- 0.5 grams.

COMMENTS:

5131064

2076

Form: Impinger Report M14.xls 9/17/18

Magnitude 7 Metals

GAS ANALYSIS REPORT

Location Line 1 Date 2-18-20

Run 3

Room B Analyzed by AP

| Run | Time | Percent Carbon Dioxide ($CO_2$) | Percent Oxygen ($O_2$) |
|---|---|---|---|
| 1 | 11:40 | 0.00 | 20.5 |
| 2 | 11:42 | 0.00 | 20.8 |
| 3 | 11:45 | 0.00 | 20.8 |

# Potline 1 Roof Exit Velocities and Temperatures

| | Manifold (B-66) Averages | | Roof Averages | |
|---|---|---|---|---|
| 2/18/2020 10:00 | WS (ft/min) | Temp (Deg. F) | WS (ft/min) | Temp (Deg. F) |
| 2/19/2020 09:15 | 125.3 | 77.0 | 126.9 | 73.4 |

| 2/18/2020 10:00<br>2/19/2020 9:15 | B-51 | | | B-66 | | | B-82 | | |
|---|---|---|---|---|---|---|---|---|---|
| Date/Time | WS (ft/min) | WD (Deg.) | Temp (Deg. F | WS (ft/min) | WD (Deg.) | Temp (Deg. F | WS (ft/min) | WD (Deg.) | Temp (Deg. F) |
| | _WS_AV | _WD_AV | _TEMP_ | _WS_AV | _WD_AV | _TEMP_ | _WS_AV | _WD_AV | _TEMP_ |
| Averages: | 105.1 | 232.0 | 72.0 | 125.3 | 224.9 | 77.0 | 150.3 | 213.9 | 71.2 |
| 2/18/20 10:00 | 110.7 | 227.2 | 82.9 | 132.2 | 230.2 | 88.1 | 137.9 | 224.3 | 78.3 |
| 2/18/20 10:15 | 114.7 | 227.4 | 81.8 | 125.9 | 227.2 | 86.8 | 131.7 | 226.0 | 76.3 |
| 2/18/20 10:30 | 112.5 | 232.4 | 80.9 | 127.8 | 226.0 | 85.6 | 139.8 | 219.2 | 75.6 |
| 2/18/20 10:45 | 122.2 | 225.5 | 81.5 | 122.0 | 227.8 | 85.5 | 142.2 | 217.8 | 75.6 |
| 2/18/20 11:00 | 102.4 | 231.8 | 78.9 | 132.7 | 226.8 | 84.8 | 136.8 | 220.2 | 74.9 |
| 2/18/20 11:15 | 102.3 | 233.9 | 79.4 | 121.0 | 226.8 | 84.7 | 135.0 | 220.5 | 75.0 |
| 2/18/20 11:30 | 95.9 | 236.1 | 78.5 | 123.9 | 225.9 | 83.5 | 140.6 | 219.0 | 76.1 |
| 2/18/20 11:45 | 105.1 | 228.7 | 79.0 | 131.1 | 226.0 | 83.7 | 134.4 | 221.3 | 74.5 |
| 2/18/20 12:00 | 105.4 | 229.1 | 79.0 | 128.9 | 226.0 | 83.9 | 136.8 | 220.2 | 74.6 |
| 2/18/20 12:15 | 104.9 | 229.5 | 78.6 | 131.7 | 224.3 | 83.3 | 129.8 | 224.0 | 73.8 |
| 2/18/20 12:30 | 116.8 | 226.0 | 78.9 | 134.1 | 223.5 | 83.2 | 137.2 | 221.3 | 73.8 |
| 2/18/20 12:45 | 111.0 | 227.2 | 79.2 | 130.2 | 226.1 | 84.0 | 139.6 | 218.9 | 73.8 |
| 2/18/20 13:00 | 119.6 | 227.0 | 79.4 | 133.9 | 223.5 | 83.0 | 134.9 | 223.2 | 72.9 |
| 2/18/20 13:15 | 116.0 | 229.3 | 78.5 | 130.3 | 225.0 | 82.5 | 141.1 | 219.8 | 73.0 |
| 2/18/20 13:30 | 124.9 | 223.8 | 79.1 | 124.6 | 226.8 | 82.3 | 143.3 | 219.5 | 73.1 |
| 2/18/20 13:45 | 111.9 | 217.7 | 78.1 | 123.5 | 225.2 | 81.3 | 149.1 | 217.8 | 73.3 |
| 2/18/20 14:00 | 111.8 | 225.3 | 78.6 | 137.7 | 227.2 | 81.4 | 130.2 | 224.4 | 72.2 |
| 2/18/20 14:15 | 110.7 | 228.6 | 76.3 | 131.4 | 227.3 | 80.2 | 138.8 | 219.5 | 71.0 |
| 2/18/20 14:30 | 111.6 | 223.7 | 77.6 | 132.4 | 226.5 | 80.2 | 150.1 | 214.8 | 71.2 |
| 2/18/20 14:45 | 101.9 | 229.2 | 76.8 | 128.6 | 224.7 | 80.1 | 141.1 | 211.0 | 71.4 |
| 2/18/20 15:00 | 103.0 | 229.1 | 76.6 | 118.9 | 222.3 | 80.0 | 170.4 | 205.5 | 73.6 |
| 2/18/20 15:15 | 106.9 | 224.6 | 75.8 | 124.2 | 219.5 | 80.1 | 169.6 | 205.4 | 75.2 |
| 2/18/20 15:30 | 101.8 | 229.2 | 77.1 | 127.9 | 217.8 | 80.9 | 171.7 | 205.3 | 75.2 |
| 2/18/20 15:45 | 93.1 | 232.4 | 77.2 | 125.4 | 220.9 | 81.4 | 151.6 | 215.0 | 74.5 |
| 2/18/20 16:00 | 100.7 | 227.6 | 77.2 | 125.5 | 224.8 | 82.0 | 135.9 | 219.7 | 73.1 |
| 2/18/20 16:15 | 97.2 | 227.9 | 76.9 | 125.5 | 223.1 | 81.8 | 143.4 | 216.7 | 74.3 |
| 2/18/20 16:30 | 105.9 | 229.2 | 76.8 | 125.5 | 225.6 | 81.7 | 134.0 | 219.9 | 72.6 |
| 2/18/20 16:45 | 96.8 | 232.3 | 76.7 | 124.9 | 222.9 | 81.5 | 146.0 | 216.1 | 74.3 |
| 2/18/20 17:00 | 102.5 | 228.5 | 76.1 | 133.7 | 226.8 | 82.2 | 139.8 | 216.4 | 73.7 |
| 2/18/20 17:15 | 104.8 | 228.4 | 76.0 | 128.4 | 225.7 | 81.4 | 130.9 | 221.9 | 72.7 |
| 2/18/20 17:30 | 105.6 | 228.3 | 75.9 | 121.0 | 225.4 | 81.2 | 134.2 | 220.7 | 72.7 |
| 2/18/20 17:45 | 95.8 | 230.1 | 75.8 | 121.3 | 226.0 | 81.1 | 127.9 | 222.8 | 72.0 |
| 2/18/20 18:00 | 105.2 | 227.6 | 75.7 | 132.4 | 226.0 | 81.5 | 141.8 | 218.8 | 73.2 |
| 2/18/20 18:15 | 101.4 | 232.9 | 75.8 | 115.3 | 224.1 | 80.6 | 151.1 | 212.7 | 73.1 |
| 2/18/20 18:30 | 100.5 | 231.6 | 75.0 | 118.9 | 225.7 | 80.0 | 158.4 | 211.4 | 74.2 |
| 2/18/20 18:45 | 88.7 | 237.0 | 73.2 | 116.5 | 227.3 | 78.8 | 163.5 | 211.1 | 74.6 |
| 2/18/20 19:00 | 98.2 | 235.3 | 73.7 | 114.3 | 228.9 | 78.7 | 131.5 | 221.2 | 72.6 |
| 2/18/20 19:15 | 105.9 | 231.8 | 74.4 | 123.0 | 226.9 | 79.7 | 134.4 | 214.7 | 72.7 |
| 2/18/20 19:30 | 103.3 | 227.4 | 75.1 | 128.9 | 226.8 | 80.2 | 131.7 | 222.2 | 71.9 |
| 2/18/20 19:45 | 106.2 | 230.6 | 73.6 | 128.7 | 226.7 | 80.1 | 136.8 | 219.3 | 70.9 |
| 2/18/20 20:00 | 102.8 | 232.3 | 73.5 | 119.9 | 226.6 | 79.3 | 155.1 | 212.2 | 72.5 |
| 2/18/20 20:15 | 104.2 | 230.6 | 73.5 | 122.2 | 224.4 | 79.3 | 155.3 | 211.2 | 72.5 |
| 2/18/20 20:30 | 104.2 | 231.7 | 73.5 | 122.5 | 225.3 | 79.3 | 138.7 | 216.0 | 71.7 |
| 2/18/20 20:45 | 108.6 | 227.5 | 73.5 | 117.1 | 224.4 | 78.4 | 136.1 | 216.2 | 71.2 |
| 2/18/20 21:00 | 104.7 | 228.5 | 73.4 | 118.0 | 224.5 | 78.3 | 154.8 | 211.9 | 71.7 |
| 2/18/20 21:15 | 109.5 | 230.6 | 73.3 | 118.0 | 225.9 | 78.2 | 152.7 | 214.3 | 71.7 |

2/18/2020 10:00
2/19/2020 9:15

| Date/Time | B-51 | | | B-66 | | | B-82 | | |
|---|---|---|---|---|---|---|---|---|---|
| | WS (ft/min) | WD (Deg.) | Temp (Deg. F | WS (ft/min) | WD (Deg.) | Temp (Deg. F | WS (ft/min) | WD (Deg.) | Temp (Deg. F) |
| 2/18/20 21:30 | 104.5 | 233.2 | 73.1 | 112.9 | 226.0 | 78.1 | 144.9 | 216.3 | 71.6 |
| 2/18/20 21:45 | 104.4 | 231.4 | 72.9 | 116.9 | 222.6 | 77.7 | 162.1 | 212.8 | 71.5 |
| 2/18/20 22:00 | 109.0 | 227.5 | 73.5 | 117.7 | 226.0 | 77.7 | 152.5 | 213.1 | 70.8 |
| 2/18/20 22:15 | 101.8 | 232.7 | 73.4 | 122.6 | 222.1 | 77.2 | 141.7 | 215.8 | 70.8 |
| 2/18/20 22:30 | 101.2 | 234.2 | 72.6 | 121.5 | 221.9 | 76.7 | 151.4 | 213.2 | 70.8 |
| 2/18/20 22:45 | 99.7 | 235.1 | 72.0 | 119.9 | 221.8 | 76.1 | 153.1 | 212.3 | 70.7 |
| 2/18/20 23:00 | 99.9 | 234.2 | 71.9 | 118.7 | 223.7 | 76.1 | 154.3 | 212.2 | 70.7 |
| 2/18/20 23:15 | 106.8 | 230.2 | 71.9 | 116.1 | 223.4 | 76.1 | 144.6 | 215.8 | 70.6 |
| 2/18/20 23:30 | 96.3 | 235.3 | 71.8 | 123.5 | 221.7 | 75.4 | 134.8 | 217.0 | 69.2 |
| 2/18/20 23:45 | 96.5 | 234.5 | 71.0 | 126.7 | 223.2 | 75.8 | 144.9 | 213.9 | 69.7 |
| 2/19/20 0:00 | 96.7 | 234.4 | 71.1 | 124.0 | 221.6 | 75.6 | 149.7 | 213.0 | 69.8 |
| 2/19/20 0:15 | 93.2 | 236.5 | 70.5 | 123.0 | 226.4 | 75.5 | 149.8 | 211.6 | 69.8 |
| 2/19/20 0:30 | 102.0 | 231.9 | 70.7 | 123.1 | 223.1 | 75.4 | 147.1 | 214.1 | 69.9 |
| 2/19/20 0:45 | 93.8 | 235.3 | 69.6 | 124.8 | 225.0 | 75.3 | 141.9 | 215.5 | 69.9 |
| 2/19/20 1:00 | 93.6 | 238.2 | 69.5 | 127.5 | 221.8 | 74.7 | 147.7 | 217.1 | 69.4 |
| 2/19/20 1:15 | 96.8 | 237.9 | 69.5 | 128.4 | 223.1 | 74.5 | 150.7 | 214.9 | 69.4 |
| 2/19/20 1:30 | 94.6 | 237.6 | 68.8 | 129.1 | 224.3 | 73.9 | 154.8 | 212.2 | 68.7 |
| 2/19/20 1:45 | 99.2 | 237.3 | 67.9 | 129.0 | 225.4 | 73.0 | 153.4 | 211.9 | 69.3 |
| 2/19/20 2:00 | 93.9 | 238.0 | 67.8 | 131.8 | 225.1 | 72.8 | 158.2 | 214.3 | 69.3 |
| 2/19/20 2:15 | 95.1 | 237.9 | 67.1 | 135.5 | 224.8 | 72.7 | 165.6 | 210.8 | 70.1 |
| 2/19/20 2:30 | 100.9 | 235.4 | 66.7 | 134.1 | 226.1 | 72.5 | 150.6 | 214.1 | 69.5 |
| 2/19/20 2:45 | 91.0 | 239.1 | 66.7 | 131.1 | 224.3 | 72.9 | 165.8 | 209.5 | 69.5 |
| 2/19/20 3:00 | 100.5 | 233.9 | 66.7 | 131.7 | 223.3 | 73.0 | 151.7 | 211.0 | 69.5 |
| 2/19/20 3:15 | 96.9 | 236.8 | 66.6 | 130.3 | 223.3 | 72.7 | 153.7 | 207.4 | 69.5 |
| 2/19/20 3:30 | 99.2 | 239.1 | 67.1 | 123.5 | 226.5 | 71.7 | 153.9 | 206.3 | 69.6 |
| 2/19/20 3:45 | 101.3 | 232.8 | 67.5 | 133.3 | 224.0 | 71.8 | 139.6 | 205.9 | 71.3 |
| 2/19/20 4:00 | 106.1 | 230.3 | 66.5 | 129.8 | 223.1 | 71.1 | 152.6 | 202.6 | 69.7 |
| 2/19/20 4:15 | 101.7 | 235.1 | 65.3 | 131.6 | 223.3 | 71.1 | 155.1 | 207.5 | 68.3 |
| 2/19/20 4:30 | 96.8 | 237.1 | 65.1 | 127.1 | 223.5 | 71.1 | 162.6 | 208.3 | 68.5 |
| 2/19/20 4:45 | 95.0 | 237.8 | 64.3 | 127.3 | 225.0 | 71.1 | 156.3 | 208.3 | 68.7 |
| 2/19/20 5:00 | 108.5 | 234.1 | 64.7 | 131.0 | 221.9 | 71.1 | 166.6 | 205.9 | 67.8 |
| 2/19/20 5:15 | 107.5 | 231.9 | 65.3 | 126.9 | 223.5 | 71.0 | 169.0 | 206.2 | 67.8 |
| 2/19/20 5:30 | 113.6 | 234.7 | 64.2 | 129.5 | 225.5 | 70.4 | 172.5 | 207.5 | 67.7 |
| 2/19/20 5:45 | 109.2 | 235.0 | 64.3 | 126.2 | 225.4 | 70.3 | 170.7 | 207.4 | 67.6 |
| 2/19/20 6:00 | 98.0 | 238.0 | 64.3 | 122.9 | 227.7 | 70.2 | 177.1 | 209.5 | 67.5 |
| 2/19/20 6:15 | 106.4 | 234.4 | 64.3 | 117.3 | 225.6 | 70.0 | 172.4 | 209.9 | 66.9 |
| 2/19/20 6:30 | 114.9 | 234.5 | 63.3 | 121.2 | 224.2 | 68.9 | 179.6 | 207.9 | 67.0 |
| 2/19/20 6:45 | 123.6 | 232.8 | 63.3 | 122.6 | 225.2 | 68.9 | 177.6 | 207.2 | 67.0 |
| 2/19/20 7:00 | 120.7 | 234.7 | 63.3 | 126.1 | 227.4 | 68.8 | 178.7 | 207.4 | 67.5 |
| 2/19/20 7:15 | 122.3 | 233.5 | 63.3 | 121.6 | 225.6 | 68.2 | 173.6 | 208.8 | 67.3 |
| 2/19/20 7:30 | 116.7 | 236.1 | 63.3 | 121.4 | 225.7 | 68.0 | 172.9 | 208.6 | 67.2 |
| 2/19/20 7:45 | 130.4 | 230.2 | 63.7 | 118.1 | 227.2 | 69.1 | 175.6 | 204.6 | 67.1 |
| 2/19/20 8:00 | 122.7 | 232.3 | 63.6 | 120.1 | 225.6 | 70.3 | 171.6 | 206.5 | 67.1 |
| 2/19/20 8:15 | 107.9 | 233.4 | 63.6 | 127.0 | 224.0 | 70.8 | 168.3 | 204.8 | 68.0 |
| 2/19/20 8:30 | 111.3 | 233.4 | 64.1 | 124.9 | 222.0 | 70.8 | 149.9 | 209.7 | 68.1 |
| 2/19/20 8:45 | 106.1 | 239.7 | 64.0 | 120.7 | 226.4 | 69.5 | 151.9 | 211.1 | 68.9 |
| 2/19/20 9:00 | 106.0 | 235.7 | 63.8 | 124.6 | 228.3 | 69.5 | 142.7 | 212.0 | 69.0 |
| 2/19/20 9:15 | 116.2 | 234.1 | 65.5 | 126.6 | 227.1 | 70.4 | 140.6 | 211.2 | 69.9 |