

Office  
 District I – (575) 393-6161  
 1625 N. French Dr., Hobbs, NM 88240  
 District II – (575) 748-1283  
 811 S. First St., Artesia, NM 88210  
 District III – (505) 334-6178  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 District IV – (505) 476-3460  
 1220 S. St. Francis Dr., Santa Fe, NM  
 87505

State of New Mexico  
 Energy, Minerals and Natural Resources

Form C-103  
 Revised July 18, 2013

OIL CONSERVATION DIVISION  
 1220 South St. Francis Dr.  
 Santa Fe, NM 87505

|                                                                                                     |              |
|-----------------------------------------------------------------------------------------------------|--------------|
| WELL API NO.                                                                                        | 30-025-48081 |
| 5. Indicate Type of Lease<br>STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/> |              |
| 6. State Oil & Gas Lease No.                                                                        |              |
| 7. Lease Name or Unit Agreement Name<br>Independence AGI                                            |              |
| 8. Well Number                                                                                      | 1            |
| 9. OGRID Number                                                                                     | 372224       |
| 10. Pool name or Wildcat<br>AGI: Devonian/Fusselman                                                 |              |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br>(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)<br>1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other: Acid Gas Injection Well <input checked="" type="checkbox"/><br>2. Name of Operator<br>Ameredev Operating, LLC<br>3. Address of Operator<br>2901 Via Fortuna, Ste. 600, Austin, TX 78746<br>4. Well Location<br>Unit Letter <u>C</u> : <u>829</u> feet from the NORTH line and <u>1,443</u> feet from the EAST line<br>Section <u>20</u> Township <u>25S</u> Range <u>36E</u> NMPM County <u>Lea</u><br>11. Elevation (Show whether DR, RKB, RT, GR, etc.)<br>3,103 (GR) |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

|                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NOTICE OF INTENTION TO:</b><br>PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/><br>TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/><br>PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/><br>DOWNHOLE COMMINGLE <input type="checkbox"/><br>CLOSED-LOOP SYSTEM <input type="checkbox"/><br>OTHER: <input type="checkbox"/> | <b>SUBSEQUENT REPORT OF:</b><br>REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/><br>COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/><br>CASING/CEMENT JOB <input checked="" type="checkbox"/><br>OTHER: <input type="checkbox"/> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion. This well is permitted under NMOCC Order #R-21455-A as a UIC Class II AGI well.

The 22-inch borehole was drilled to 3,450 feet from January 4 to 8, 2021, and on January 8th and 9th the 20-inch 1<sup>st</sup> Intermediate Casing was installed. The casing float shoe was set at 3,412 feet and cemented through drill pipe with 11.0 lbs/gal lead and 14.8 lbs/gal tail in a single stage as indicated below. Cement was not initially circulated to the surface. On January 14, 2021, an additional 217 sacks of 14.8 lbs/gal cement were added using a 3/4-inch spear, set at 276 feet in a top-up remedial cement job; 29 sacks of cement were circulated to the surface. The casing tally, cement laboratory report, and cementing activity reports are attached.

| Casing                  | Joints | Size | Wt. (lb/ft) | Grade  | Threads | Set Depth | Cement       | Type/Class | Sacks | Yield |
|-------------------------|--------|------|-------------|--------|---------|-----------|--------------|------------|-------|-------|
| 1 <sup>st</sup> Interm. | 80     | 20"  | 133         | NT80DE | BTC     | 0 – 3,412 | Stage 1 Lead | NeoCem IL2 | 635   | 2.722 |
|                         |        |      |             |        |         |           | Stage 1 Tail | HalCem H   | 410   | 1.335 |
|                         |        |      |             |        |         |           | Remedial Job | Class C    | 217   | 1.35  |

The CBL, run on January 10, 2021, indicated poor bond to missing cement in the top 400 feet. After discussions the NMOCD, the remedial cement job was performed in an effort to place as much additional cement in this area as possible. Upon completing the remedial cementing job, the BOPE for the 2<sup>nd</sup> Intermediate Casing section was installed and tested. The BOPE test charts, casing pressure test (Pason), and updated completion diagram are attached. The cement bond log will be submitted via the NMOCD EDocs website.

Spud Date:

December 27, 2020

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Dale Littlejohn TITLE Consultant to Ameredev DATE January 18, 2021

Type or print name Dale Littlejohn E-mail address: dale@geolex.com PHONE: 505-842-8000

**For State Use Only**

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Conditions of Approval (if any):

| Date: 01.09.2021 |               |        | Hole TD: 3450          |                          |                          |                      |                  | Casing Set @: 3412    |                      |                 |                      |                      |
|------------------|---------------|--------|------------------------|--------------------------|--------------------------|----------------------|------------------|-----------------------|----------------------|-----------------|----------------------|----------------------|
| Csg Specs @:     |               |        | 20" 133# NT-80DE (BTC) |                          |                          |                      |                  |                       |                      |                 |                      |                      |
| Short Joint #1   |               |        | Short Joint #2         |                          |                          |                      |                  | Short Joint #3        |                      |                 |                      |                      |
| Weight           | Running Order | Length | Running Depth ft/RKB   | Landed Depth, top ft/RKB | Landed Depth, btm ft/RKB | Capacity per ft bbls | Disp per ft bbls | Running Capacity bbls | Running CL Disp bbls | Strokes to fill | Running Ann Vol bbls | Running OP Disp bbls |
| 133              | FS            | 1.70   | 1.70                   | 3410.30                  | 3412.00                  | 0.26                 | 0.04             | 0.26                  | 0.30                 | 2.88            | 0.21                 | 0.04                 |
| 133              | 1             | 43.00  | 44.70                  | 3367.30                  | 3410.30                  | 6.65                 | 1.03             | 6.91                  | 7.77                 | 75.61           | 5.53                 | 1.08                 |
| 133              | FC            | 2.40   | 47.10                  | 3364.90                  | 3367.30                  | 0.37                 | 0.06             | 7.28                  | 8.19                 | 79.66           | 5.83                 | 1.13                 |
| 133              | 2             | 42.94  | 90.04                  | 3321.96                  | 3364.90                  | 6.64                 | 1.03             | 13.92                 | 15.65                | 152.29          | 11.14                | 2.17                 |
| 133              | 3             | 42.51  | 132.55                 | 3279.45                  | 3321.96                  | 6.57                 | 1.02             | 20.49                 | 23.03                | 224.19          | 16.40                | 3.19                 |
| 133              | 4             | 42.93  | 175.48                 | 3236.52                  | 3279.45                  | 6.64                 | 1.03             | 27.13                 | 30.50                | 296.81          | 21.71                | 4.22                 |
| 133              | 5             | 42.98  | 218.46                 | 3193.54                  | 3236.52                  | 6.64                 | 1.03             | 33.77                 | 37.96                | 369.50          | 27.03                | 5.25                 |
| 133              | 6             | 41.27  | 259.73                 | 3152.27                  | 3193.54                  | 6.38                 | 0.99             | 40.15                 | 45.14                | 439.31          | 32.13                | 6.25                 |
| 133              | 7             | 42.97  | 302.70                 | 3109.30                  | 3152.27                  | 6.64                 | 1.03             | 46.80                 | 52.60                | 511.98          | 37.45                | 7.28                 |
| 133              | 8             | 42.97  | 345.67                 | 3066.33                  | 3109.30                  | 6.64                 | 1.03             | 53.44                 | 60.07                | 584.66          | 42.77                | 8.31                 |
| 133              | 9             | 42.50  | 388.17                 | 3023.83                  | 3066.33                  | 6.57                 | 1.02             | 60.01                 | 67.46                | 656.55          | 48.03                | 9.34                 |
| 133              | 10            | 42.92  | 431.09                 | 2980.91                  | 3023.83                  | 6.64                 | 1.03             | 66.64                 | 74.92                | 729.14          | 53.34                | 10.37                |
| 133              | 11            | 42.98  | 474.07                 | 2937.93                  | 2980.91                  | 6.64                 | 1.03             | 73.29                 | 82.38                | 801.84          | 58.65                | 11.40                |
| 133              | 12            | 42.97  | 517.04                 | 2894.96                  | 2937.93                  | 6.64                 | 1.03             | 79.93                 | 89.85                | 874.52          | 63.97                | 12.44                |
| 133              | 13            | 42.36  | 559.40                 | 2852.60                  | 2894.96                  | 6.55                 | 1.02             | 86.48                 | 97.21                | 946.16          | 69.21                | 13.45                |
| 133              | 14            | 41.22  | 600.62                 | 2811.38                  | 2852.60                  | 6.37                 | 0.99             | 92.85                 | 104.38               | 1015.88         | 74.31                | 14.45                |
| 133              | 15            | 42.96  | 643.58                 | 2768.42                  | 2811.38                  | 6.64                 | 1.03             | 99.49                 | 111.84               | 1088.55         | 79.62                | 15.48                |
| 133              | 16            | 42.95  | 686.53                 | 2725.47                  | 2768.42                  | 6.64                 | 1.03             | 106.13                | 119.31               | 1161.19         | 84.94                | 16.51                |
| 133              | 17            | 42.92  | 729.45                 | 2682.55                  | 2725.47                  | 6.64                 | 1.03             | 112.77                | 126.76               | 1233.79         | 90.25                | 17.54                |
| 133              | 18            | 42.94  | 772.39                 | 2639.61                  | 2682.55                  | 6.64                 | 1.03             | 119.41                | 134.23               | 1306.41         | 95.56                | 18.58                |
| 133              | 19            | 42.94  | 815.33                 | 2596.67                  | 2639.61                  | 6.64                 | 1.03             | 126.04                | 141.69               | 1379.04         | 100.87               | 19.61                |
| 133              | 20            | 42.96  | 858.29                 | 2553.71                  | 2596.67                  | 6.64                 | 1.03             | 132.69                | 149.15               | 1451.70         | 106.19               | 20.64                |
| 133              | 21            | 42.93  | 901.22                 | 2510.78                  | 2553.71                  | 6.64                 | 1.03             | 139.32                | 156.62               | 1524.32         | 111.50               | 21.68                |
| 133              | 22            | 41.21  | 942.43                 | 2469.57                  | 2510.78                  | 6.37                 | 0.99             | 145.69                | 163.78               | 1594.02         | 116.60               | 22.67                |
| 133              | 23            | 42.88  | 985.31                 | 2426.69                  | 2469.57                  | 6.63                 | 1.03             | 152.32                | 171.23               | 1666.54         | 121.90               | 23.70                |
| 133              | 24            | 42.97  | 1028.28                | 2383.72                  | 2426.69                  | 6.64                 | 1.03             | 158.97                | 178.70               | 1739.22         | 127.22               | 24.73                |
| 133              | 25            | 42.95  | 1071.23                | 2340.77                  | 2383.72                  | 6.64                 | 1.03             | 165.60                | 186.16               | 1811.87         | 132.53               | 25.76                |
| 133              | 26            | 42.97  | 1114.20                | 2297.80                  | 2340.77                  | 6.64                 | 1.03             | 172.25                | 193.63               | 1884.55         | 137.85               | 26.80                |
| 133              | 27            | 42.92  | 1157.12                | 2254.88                  | 2297.80                  | 6.64                 | 1.03             | 178.88                | 201.09               | 1957.14         | 143.16               | 27.83                |
| 133              | 28            | 40.83  | 1197.95                | 2214.05                  | 2254.88                  | 6.31                 | 0.98             | 185.19                | 208.18               | 2026.20         | 148.21               | 28.81                |
| 133              | 29            | 42.96  | 1240.91                | 2171.09                  | 2214.05                  | 6.64                 | 1.03             | 191.84                | 215.65               | 2098.86         | 153.53               | 29.85                |
| 133              | 30            | 42.92  | 1283.83                | 2128.17                  | 2171.09                  | 6.64                 | 1.03             | 198.47                | 223.11               | 2171.46         | 158.84               | 30.88                |
| 133              | 31            | 42.92  | 1326.75                | 2085.25                  | 2128.17                  | 6.64                 | 1.03             | 205.11                | 230.56               | 2244.05         | 164.15               | 31.91                |
| 133              | 32            | 42.96  | 1369.71                | 2042.29                  | 2085.25                  | 6.64                 | 1.03             | 211.75                | 238.03               | 2316.72         | 169.46               | 32.94                |
| 133              | 33            | 41.75  | 1411.46                | 2000.54                  | 2042.29                  | 6.45                 | 1.00             | 218.20                | 245.29               | 2387.33         | 174.63               | 33.95                |
| 133              | 34            | 42.93  | 1454.39                | 1957.61                  | 2000.54                  | 6.64                 | 1.03             | 224.84                | 252.75               | 2459.94         | 179.94               | 34.98                |
| 133              | 35            | 42.95  | 1497.34                | 1914.66                  | 1957.61                  | 6.64                 | 1.03             | 231.48                | 260.21               | 2532.59         | 185.25               | 36.01                |
| 133              | 36            | 42.97  | 1540.31                | 1871.69                  | 1914.66                  | 6.64                 | 1.03             | 238.12                | 267.68               | 2605.27         | 190.57               | 37.05                |
| 133              | 37            | 42.96  | 1583.27                | 1828.73                  | 1871.69                  | 6.64                 | 1.03             | 244.76                | 275.14               | 2677.93         | 195.89               | 38.08                |
| 133              | 38            | 42.43  | 1625.70                | 1786.30                  | 1828.73                  | 6.56                 | 1.02             | 251.32                | 282.52               | 2749.70         | 201.13               | 39.10                |
| 133              | 39            | 42.96  | 1668.66                | 1743.34                  | 1786.30                  | 6.64                 | 1.03             | 257.96                | 289.98               | 2822.36         | 206.45               | 40.13                |
| 133              | 40            | 42.91  | 1711.57                | 1700.43                  | 1743.34                  | 6.63                 | 1.03             | 264.60                | 297.44               | 2894.93         | 211.76               | 41.17                |
| 133              | 41            | 41.22  | 1752.79                | 1659.21                  | 1700.43                  | 6.37                 | 0.99             | 270.97                | 304.60               | 2964.65         | 216.86               | 42.16                |
| 133              | 42            | 42.93  | 1795.72                | 1616.28                  | 1659.21                  | 6.64                 | 1.03             | 277.61                | 312.06               | 3037.27         | 222.17               | 43.19                |
| 133              | 43            | 41.23  | 1836.95                | 1575.05                  | 1616.28                  | 6.37                 | 0.99             | 283.98                | 319.23               | 3107.00         | 227.27               | 44.18                |
| 133              | 44            | 42.97  | 1879.92                | 1532.08                  | 1575.05                  | 6.64                 | 1.03             | 290.62                | 326.70               | 3179.68         | 232.59               | 45.21                |
| 133              | 45            | 42.94  | 1922.86                | 1489.14                  | 1532.08                  | 6.64                 | 1.03             | 297.26                | 334.16               | 3252.31         | 237.90               | 46.25                |
| 133              | 46            | 42.94  | 1965.80                | 1446.20                  | 1489.14                  | 6.64                 | 1.03             | 303.90                | 341.62               | 3324.94         | 243.21               | 47.28                |
| 133              | 47            | 42.93  | 2008.73                | 1403.27                  | 1446.20                  | 6.64                 | 1.03             | 310.54                | 349.08               | 3397.55         | 248.52               | 48.31                |
| 133              | 48            | 42.95  | 2051.68                | 1360.32                  | 1403.27                  | 6.64                 | 1.03             | 317.18                | 356.54               | 3470.19         | 253.84               | 49.35                |
| 133              | 49            | 42.96  | 2094.64                | 1317.36                  | 1360.32                  | 6.64                 | 1.03             | 323.82                | 364.01               | 3542.86         | 259.15               | 50.38                |
| 133              | 50            | 41.18  | 2135.82                | 1276.18                  | 1317.36                  | 6.37                 | 0.99             | 330.18                | 371.17               | 3612.51         | 264.25               | 51.37                |
| 133              | 51            | 41.24  | 2177.06                | 1234.94                  | 1276.18                  | 6.38                 | 0.99             | 336.56                | 378.33               | 3682.26         | 269.35               | 52.36                |
| 133              | 52            | 42.94  | 2220.00                | 1192.00                  | 1234.94                  | 6.64                 | 1.03             | 343.20                | 385.79               | 3754.89         | 274.66               | 53.39                |
| 133              | 53            | 42.95  | 2262.95                | 1149.05                  | 1192.00                  | 6.64                 | 1.03             | 349.84                | 393.26               | 3827.53         | 279.98               | 54.43                |
| 133              | 54            | 42.95  | 2305.90                | 1106.10                  | 1149.05                  | 6.64                 | 1.03             | 356.48                | 400.72               | 3900.18         | 285.29               | 55.46                |
| 133              | 55            | 41.24  | 2347.14                | 1064.86                  | 1106.10                  | 6.38                 | 0.99             | 362.85                | 407.89               | 3969.93         | 290.39               | 56.45                |
| 133              | 56            | 42.95  | 2390.09                | 1021.91                  | 1064.86                  | 6.64                 | 1.03             | 369.49                | 415.35               | 4042.58         | 295.71               | 57.48                |
| 133              | 57            | 42.95  | 2433.04                | 978.96                   | 1021.91                  | 6.64                 | 1.03             | 376.13                | 422.82               | 4115.22         | 301.02               | 58.52                |
| 133              | 58            | 41.28  | 2474.32                | 937.68                   | 978.96                   | 6.38                 | 0.99             | 382.51                | 429.99               | 4185.04         | 306.13               | 59.51                |
| 133              | 59            | 42.96  | 2517.28                | 894.72                   | 937.68                   | 6.64                 | 1.03             | 389.15                | 437.46               | 4257.71         | 311.44               | 60.54                |
| 133              | 60            | 42.95  | 2560.23                | 851.77                   | 894.72                   | 6.64                 | 1.03             | 395.79                | 444.92               | 4330.35         | 316.76               | 61.58                |
| 133              | 61            | 42.58  | 2602.81                | 809.19                   | 851.77                   | 6.58                 | 1.02             | 402.38                | 452.32               | 4402.37         | 322.02               | 62.60                |
| 133              | 62            | 42.97  | 2645.78                | 766.22                   | 809.19                   | 6.64                 | 1.03             | 409.02                | 459.79               | 4475.05         | 327.34               | 63.63                |
| 133              | 63            | 42.94  | 2688.72                | 723.28                   | 766.22                   | 6.64                 | 1.03             | 415.66                | 467.25               | 4547.68         | 332.65               | 64.67                |
| 133              | 64            | 42.94  | 2731.66                | 680.34                   | 723.28                   | 6.64                 | 1.03             | 422.30                | 474.71               | 4620.31         | 337.97               | 65.70                |
| 133              | 65            | 42.52  | 2774.18                | 637.82                   | 680.34                   | 6.57                 | 1.02             | 428.87                | 482.10               | 4692.22         | 343.23               | 66.72                |
| 133              | 66            | 42.96  | 2817.14                | 594.86                   | 637.82                   | 6.64                 | 1.03             | 435.51                | 489.57               | 4764.89         | 348.54               | 67.76                |
| 133              | 67            | 42.97  | 2860.11                | 551.89                   | 594.86                   | 6.64                 | 1.03             | 442.15                | 497.03               | 4837.57         | 353.86               | 68.79                |
| 133              | 68            | 42.97  | 2903.08                | 508.92                   | 551.89                   | 6.64                 | 1.03             | 448.80                | 504.50               | 4910.24         | 359.17               | 69.82                |
| 133              | 69            | 42.94  | 2946.02                | 465.98                   | 508.92                   | 6.64                 | 1.03             | 455.43                | 511.96               | 4982.87         | 364.49               | 70.86                |
| 133              | 70            | 42.98  | 2989.00                | 423.00                   | 465.98                   | 6.64                 | 1.03             | 462.08                | 519.43               | 5055.57         | 369.80               | 71.89                |
| 133              | 71            | 41.20  | 3030.20                | 381.80                   | 423.00                   | 6.37                 | 0.99             | 468.45                | 526.59               | 5125.25         | 374.90               | 72.88                |
| 133              | 72            | 41.27  | 3071.47                | 340.53                   | 381.80                   | 6.38                 | 0.99             | 474.83                | 533.76               | 5195.06         | 380.01               | 73.87                |
| 133              | 73            | 42.97  | 3114.44                | 297.56                   | 340.53                   | 6.64                 | 1.03             | 481.47                | 541.23               | 5267.74         | 385.32               | 74.91                |
| 133              | 74            | 41.22  | 3155.66                | 256.34                   | 297.56                   | 6.37                 | 0.99             | 487.84                | 548.40               | 5337.46         | 390.42               | 75.90                |
| 133              | 75            | 42.54  | 3198.20                | 213.80                   | 256.34                   | 6.58                 | 1.02             | 494.42                | 555.79               | 5409.41         | 395.69               | 76.92                |
| 133              | 76            | 42.95  | 3241.15                | 170.85                   | 213.80                   | 6.64                 | 1.03             | 501.06                | 56                   |                 |                      |                      |

**HALLIBURTON****Permian Basin****Lab Results - Lead****Job Information**

|                       |                        |                 |                     |                   |                    |
|-----------------------|------------------------|-----------------|---------------------|-------------------|--------------------|
| <b>Request/Slurry</b> | 2659240/1              | <b>Rig Name</b> | Citadel 3           | <b>Date</b>       | 06/JAN/2021        |
| <b>Submitted By</b>   | Ryan Wilcoxson         | <b>Job Type</b> | Intermediate Casing | <b>Bulk Plant</b> |                    |
| <b>Customer</b>       | Ameredev Operating LLC | <b>Location</b> | Lea                 | <b>Well</b>       | Independence AGI 1 |

**Well Information**

|                          |       |                  |         |             |       |
|--------------------------|-------|------------------|---------|-------------|-------|
| <b>Casing/Liner Size</b> | 20 in | <b>Depth MD</b>  | 3200 ft | <b>BHST</b> | 102°F |
| <b>Hole Size</b>         | 22 in | <b>Depth TVD</b> | 3200 ft | <b>BHCT</b> | 89°F  |

**Cement Information - Lead Design**

| <u>Conc</u> | <u>UOM</u> | <u>Cement/Additive</u> | <u>Cement Properties</u> |       |          |
|-------------|------------|------------------------|--------------------------|-------|----------|
|             |            | NeoCem™ Cement         | Slurry Density           | 11    | lbm/gal  |
| 100         | % BWOC     | Cement Blend           | Slurry Yield             | 2.722 | ft3/sack |
| 16.9        | gal/sack   | Fresh Water            | Water Requirement        | 16.9  | gal/sack |
| 1           | lb/sk      | Bridgemaker-II         |                          |       |          |

**Pilot Test Results Request ID 2659240/1****API Rheology**

| Temp (degF) | 300 | 200 | 100 | 60 | 30 | 6 | 3 | Cond Time (min) | Cond Temp (degF) |
|-------------|-----|-----|-----|----|----|---|---|-----------------|------------------|
| 80 (avg.)   | 17  | 13  | 9   | 8  | 6  | 4 | 4 | 0               | 80               |

**API Rheology**

| Temp (degF) | 300 | 200 | 100 | 60 | 30 | 6 | 3 | Cond Time (min) | Cond Temp (degF) |
|-------------|-----|-----|-----|----|----|---|---|-----------------|------------------|
| 95 (avg.)   | 25  | 20  | 14  | 11 | 9  | 6 | 5 | 30              | 95               |

**API Fluid Loss**

| Test Temp (degF) | Test Pressure (psi) | Test Time (min) | Meas. Vol. | Calculated FL (<30 min) | Conditioning time (min) | Conditioning Temp (degF) |
|------------------|---------------------|-----------------|------------|-------------------------|-------------------------|--------------------------|
| 95               | 1000                | 8               | 102        | 394.6                   | 30                      | 95                       |

**Free Fluid API 10B-2**

| Con. Temp (degF) | Cond. Time (min) | Static T. (F) | Static time (min) | Incl. (deg) | % Fluid |
|------------------|------------------|---------------|-------------------|-------------|---------|
| 95               | 30               | 80            | 120               | 0           | 0       |

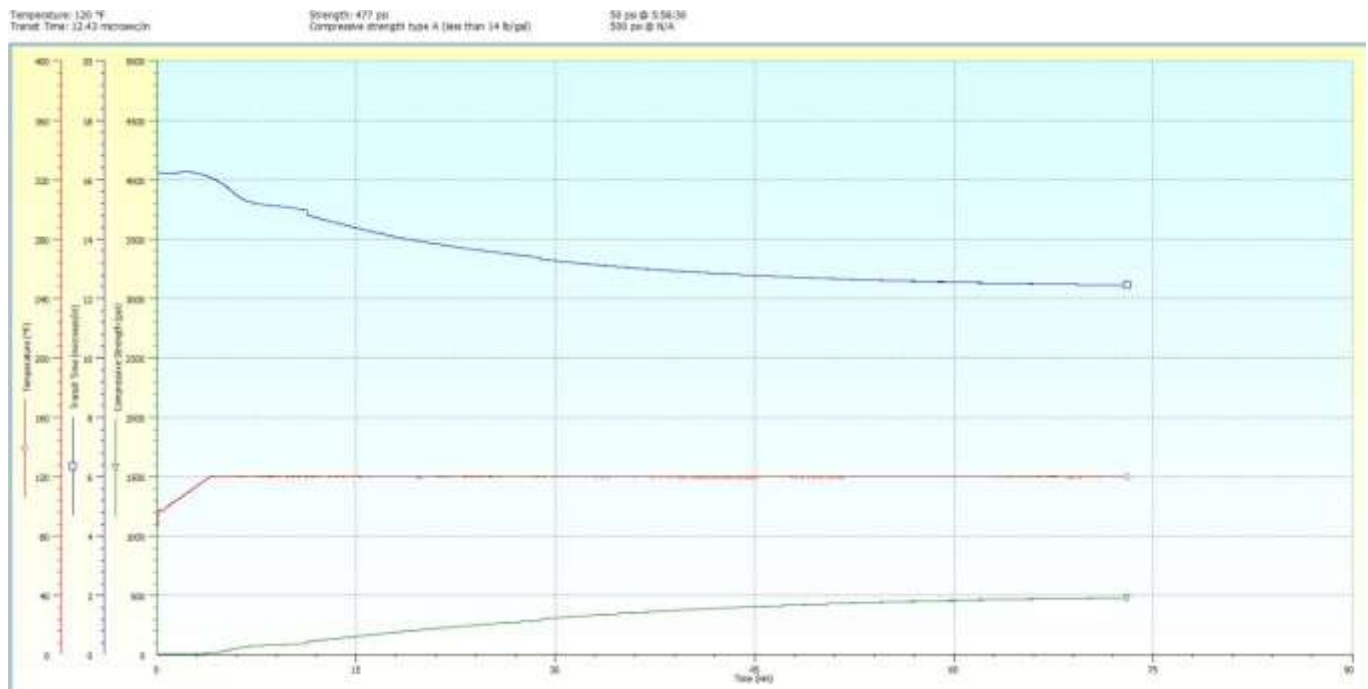
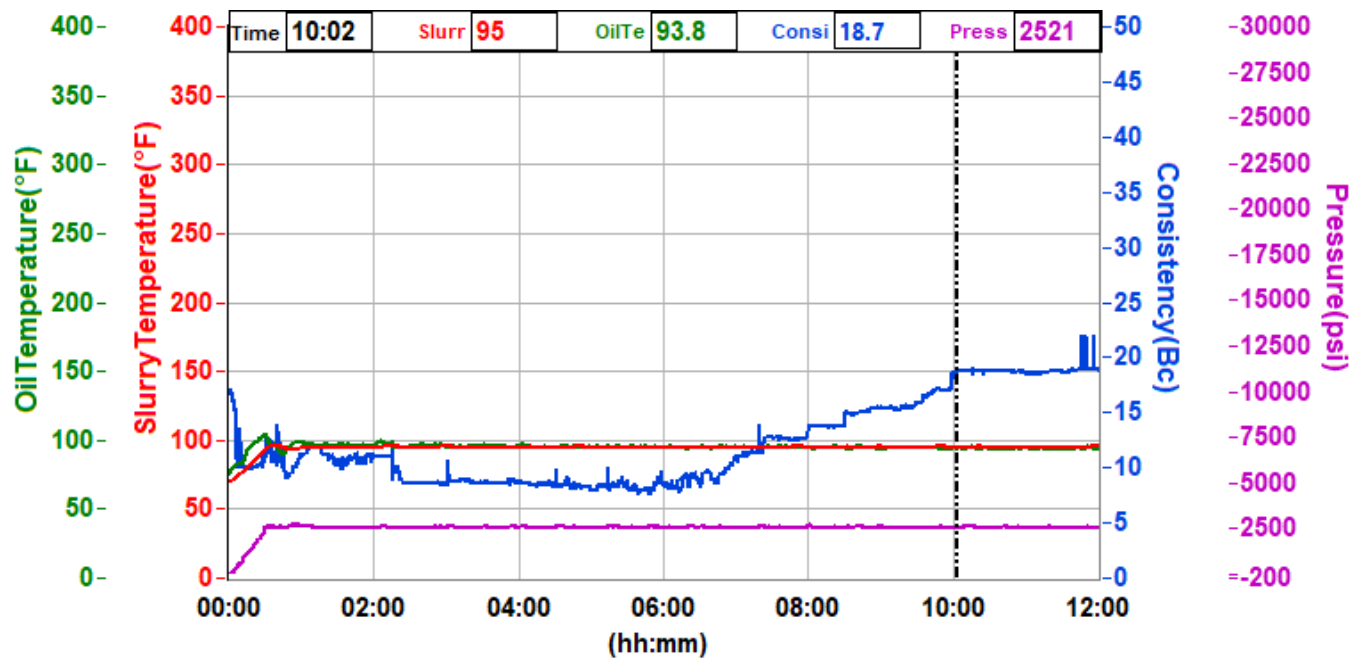
**UCA Comp. Strength**

| End Temp (degF) | Pressure (psi) | 50 psi (hh:mm) | 100 psi (hh:mm) | 8hr CS (psi) | 12 hr CS (psi) | 16 hr CS (psi) | 24 hr CS (psi) | 48 hr CS (psi) | 72 hr CS (psi) | End CS (psi) | End Time (hrs) |
|-----------------|----------------|----------------|-----------------|--------------|----------------|----------------|----------------|----------------|----------------|--------------|----------------|
| 118             | 3000           | 5:56           | 11:19           | 75           | 115            | 163            | 246            | 415            | 475            | 477          | 73             |

**Thickening Time - Thixotropic Cup**

| Temp (degF) | Reached in (min) | Pressure (psi) | Start Bc | 26 Bc (hh:mm) |
|-------------|------------------|----------------|----------|---------------|
| 95          | 30               | 2600           | 17       | 10:02         |

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**HALLIBURTON****Lab Results - Tail****Permian Basin****Job Information**

|                       |                         |                 |                     |                   |                    |
|-----------------------|-------------------------|-----------------|---------------------|-------------------|--------------------|
| <b>Request/Slurry</b> | 2664429/1               | <b>Rig Name</b> | Citadel 3           | <b>Date</b>       | 06/JAN/2021        |
| <b>Submitted By</b>   | Ryan Wilcoxson          | <b>Job Type</b> | Intermediate Casing | <b>Bulk Plant</b> |                    |
| <b>Customer</b>       | Ameredev Operating, LLC | <b>Location</b> | Lea                 | <b>Well</b>       | Independence AGI 1 |

**Well Information**

|                          |       |                  |         |             |       |
|--------------------------|-------|------------------|---------|-------------|-------|
| <b>Casing/Liner Size</b> | 20 in | <b>Depth MD</b>  | 3200 ft | <b>BHST</b> | 102°F |
| <b>Hole Size</b>         | 22 in | <b>Depth TVD</b> | 3200 ft | <b>BHCT</b> | 89°F  |

**Cement Information - Tail Design**

| <u>Conc</u> | <u>UOM</u> | <u>Cement/Additive</u> | <u>Cement Properties</u> |             |          |
|-------------|------------|------------------------|--------------------------|-------------|----------|
|             |            | HalCem                 | Slurry Density           | 14.8        | lbm/gal  |
| 100         | % BWOC     | Cement Blend           | Slurry Yield             | 1.33        | ft3/sack |
| 6.36        | gal/sack   | Fresh Water            | Water Requirement        | 6.36        | gal/sack |
| 0.3         | % BWOC     | HALAD-9 (PB)           | Water Source             | Fresh Water |          |
| 0.2         | % BWOC     | HR-800                 |                          |             |          |

**Pilot Test Results Request ID 2664429/1****Thickening Time - ON-OFF-ON**

| Test Temp (degF) | Pressure (psi) | Reached in (min) | 70 Bc (hh:mm) | Start Bc | Stirring before stop (mins) | Static Period (min) | Termination time (hh:mm) | Termination Bc |
|------------------|----------------|------------------|---------------|----------|-----------------------------|---------------------|--------------------------|----------------|
| 89               | 2300           | 21               | 4:33          | 16       | 26                          | 15                  | 6:59                     | 140            |

**API Fluid Loss**

| Test Temp (degF) | Test Pressure (psi) | Test Time (min) | Meas. Vol. | Calculated FL (<30 min) | Conditioning time (min) | Conditioning Temp (degF) |
|------------------|---------------------|-----------------|------------|-------------------------|-------------------------|--------------------------|
| 89               | 1000                | 0.58            | 42         | 605.13                  | 30                      | 89                       |

**API Rheology**

| Temp (degF) | 300 | 200 | 100 | 60 | 30 | 6  | 3  |
|-------------|-----|-----|-----|----|----|----|----|
| 80          | 74  | 65  | 54  | 49 | 45 | 35 | 26 |

**API Rheology**

| Temp (degF) | 300 | 200 | 100 | 60 | 30 | 6  | 3  | Cond Time (min) | Cond Temp (degF) |
|-------------|-----|-----|-----|----|----|----|----|-----------------|------------------|
| 89          | 88  | 79  | 70  | 66 | 61 | 40 | 25 | 30              | 89               |

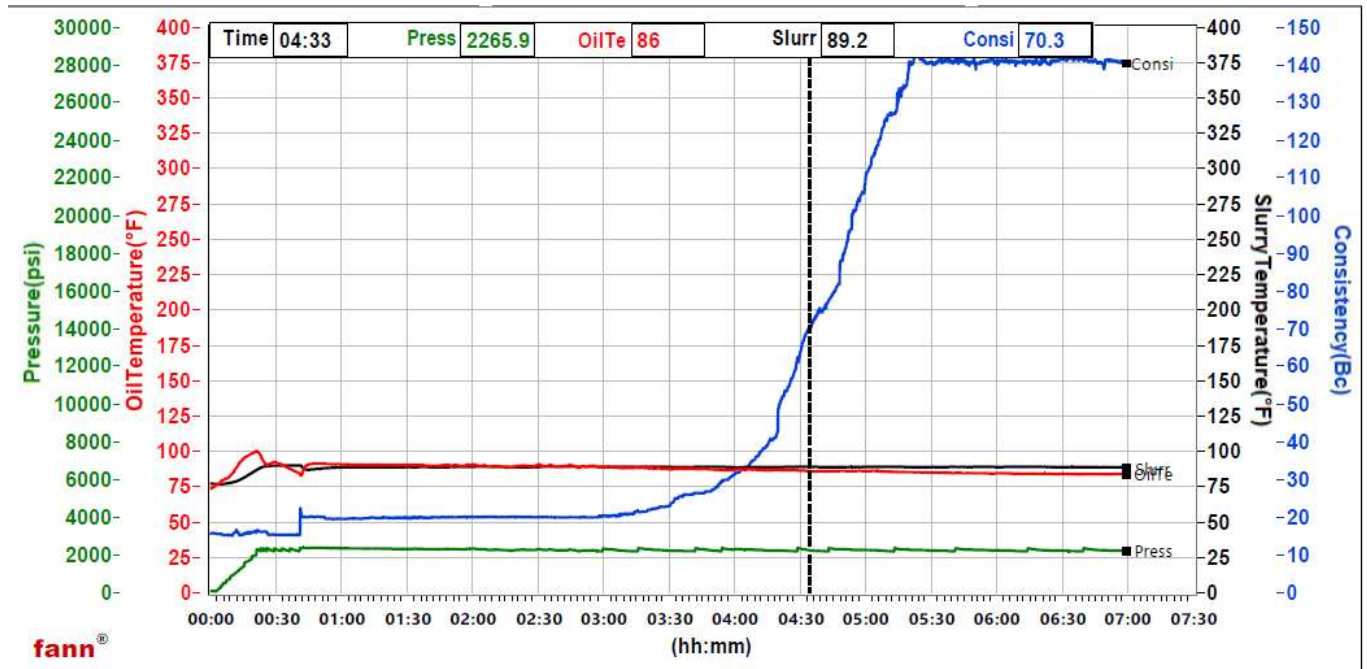
**Free Fluid API 10B-2**

| Con. Temp (degF) | Cond. Time (min) | Static T. (F) | Static time (min) | Incl. (deg) | % Fluid |
|------------------|------------------|---------------|-------------------|-------------|---------|
| 89               | 30               | 80            | 120               | 90          | 0       |

**Pilot Test Results Request ID 2659242/1****UCA Comp. Strength**

| End Temp (degF) | Pressure (psi) | 50 psi (hh:mm) | 100 psi (hh:mm) | 500 psi (hh:mm) | 1000 psi(hh:mm) | 8hr CS (psi) | 12 hr CS (psi) | 16 hr CS (psi) | 24 hr CS (psi) | 48 hr CS (psi) | 72 hr CS (psi) | End CS (psi) | End Time (hrs) |
|-----------------|----------------|----------------|-----------------|-----------------|-----------------|--------------|----------------|----------------|----------------|----------------|----------------|--------------|----------------|
| 118             | 3000           | 4:02           | 4:18            | 5:31            | 7:30            | 1080         | 1535           | 1808           | 214            | 2568           | 2797           | 2797         | 74             |

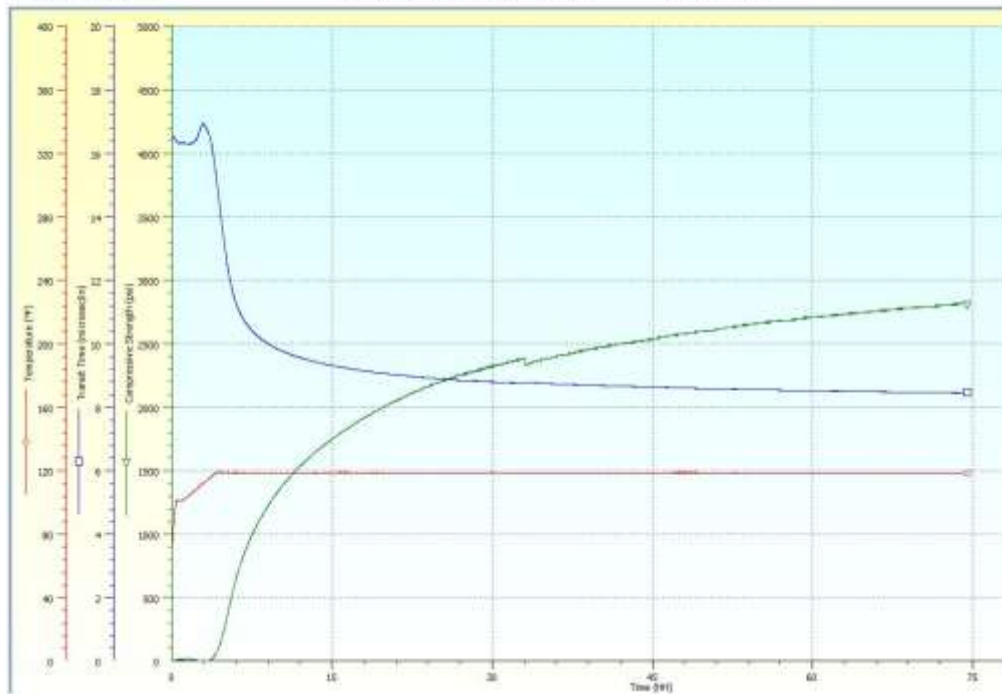
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Temperature: 118 °F  
Transit Time: 8.43 msec/in

Strength: 2797 psi  
Compressive strength type B (more than 14 lb/gal)

50 psi @ 4:52:30  
500 psi @ 5:31:30



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# HALLIBURTON

iCem<sup>®</sup> Service

**AMEREDEV OPERATING LLC-EBUS  
INDEPENDENCE AGI/1 INTERMEDIATE  
CASING BOM - SO# 0906887683**

**For: MARCUS . .**

Date: Saturday, January 09, 2021

**INDEPENDENCE AGI/1**

Case 1

Job Date: Saturday, January 09, 2021

Sincerely,

**GUSTAVO GARZA**



**HALLIBURTON****Cementing Job Summary****The Road to Excellence Starts with Safety**

|                                              |                    |                                  |                            |
|----------------------------------------------|--------------------|----------------------------------|----------------------------|
| Sold To #: 381298                            | Ship To #: 9060895 | Quote #: 0022790832              | Sales Order #: 0906887683  |
| Customer: AMEREDEV OPERATING LLC-EBUS        |                    | Customer Rep: MARCUS             |                            |
| Well Name: INDEPENDENCE AGI                  |                    | Well #: 1                        | API/UWI #: 30-025-48081-00 |
| Field:                                       | City (SAP): JAL    | County/Parish: LEA               | State: NEW MEXICO          |
| Legal Description: 20-25S-36E-829FNL-1443FWL |                    |                                  |                            |
| Contractor: CITADEL DRLG                     |                    | Rig/Platform Name/Num: CITADEL 3 |                            |
| Job BOM: 7522 7522                           |                    |                                  |                            |
| Well Type: INJECTION                         |                    |                                  |                            |
| Sales Person: HALAMERICA\H125894             |                    | Srvc Supervisor: Gustavo Garza   |                            |

**Job**

|                               |                          |
|-------------------------------|--------------------------|
| <b>Formation Name</b>         |                          |
| <b>Formation Depth (MD)</b>   | <b>Top</b>               |
| <b>Form Type</b>              | <b>BHST</b>              |
| <b>Job depth MD</b>           | 3200ft                   |
| <b>Water Depth</b>            | <b>Wk Ht Above Floor</b> |
| <b>Perforation Depth (MD)</b> | <b>From</b>              |
|                               | <b>To</b>                |

**Well Data**

| Description       | New / Used | Size in | ID in | Weight lbm/ft | Thread | Grade | Top MD ft | Bottom MD ft | Top TVD ft | Bottom TVD ft |
|-------------------|------------|---------|-------|---------------|--------|-------|-----------|--------------|------------|---------------|
| Casing            |            | 24      | 22.5  | 186.23        | XLF    | X-65  | 0         | 1383         |            |               |
| Casing            |            | 20      | 18.73 | 133           | BTC    | N-80  | 0         | 3400         |            |               |
| Open Hole Section |            |         | 22    |               |        |       | 1383      | 3400         |            |               |

**Tools and Accessories**

| Type         | Size in | Qty | Make | Depth ft | Type           | Size in | Qty | Make |
|--------------|---------|-----|------|----------|----------------|---------|-----|------|
| Guide Shoe   | 20      |     |      | 3400     | Top Plug       | 20      |     | HES  |
| Float Shoe   | 20      |     |      |          | Bottom Plug    | 20      |     | HES  |
| Float Collar | 20      |     |      |          | SSR plug set   | 20      |     | HES  |
| Insert Float | 20      |     |      |          | Plug Container | 20      |     | HES  |
| Stage Tool   | 20      |     |      |          | Centralizers   | 20      |     | HES  |

**Fluid Data****Stage/Plug #: 1**

| Fluid #      | Stage Type    | Fluid Name                            | Qty | Qty UoM | Mixing Density lbm/gal | Yield ft <sup>3</sup> /sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal |
|--------------|---------------|---------------------------------------|-----|---------|------------------------|-----------------------------|---------------|--------------|---------------------|
| 1            | Mud Flush III | Mud Flush III                         | 40  | bbl     | 8.4                    |                             |               |              |                     |
| 0.20 gal/bbl |               | ANHIB II (100003821)                  |     |         |                        |                             |               |              |                     |
| 0.05 gal/bbl |               | BE-9, 5 GAL PAIL (101718548)          |     |         |                        |                             |               |              |                     |
| 4 lbm/bbl    |               | MUD FLUSH III, 40 LB SACK (101633304) |     |         |                        |                             |               |              |                     |

| Fluid # | Stage Type | Fluid Name | Qty | Qty UoM | Mixing Density lbm/gal | Yield ft <sup>3</sup> /sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal |
|---------|------------|------------|-----|---------|------------------------|-----------------------------|---------------|--------------|---------------------|
|---------|------------|------------|-----|---------|------------------------|-----------------------------|---------------|--------------|---------------------|



**HALLIBURTON*****Cementing Job Summary***

| 2                                   | NeoCem™ IL2           | NeoCem TM                                         | 635                               | sack    | 11                                   | 2.722                                  |                  | 5               | 16.9                   |
|-------------------------------------|-----------------------|---------------------------------------------------|-----------------------------------|---------|--------------------------------------|----------------------------------------|------------------|-----------------|------------------------|
| 1 lbm                               |                       | BRIDGEMAKER II LCM, 50 LB SACK - (1062609)        |                                   |         |                                      |                                        |                  |                 |                        |
|                                     |                       |                                                   |                                   |         |                                      |                                        |                  |                 |                        |
| Fluid #                             | Stage Type            | Fluid Name                                        | Qty                               | Qty UoM | Mixing Density<br>lbm/gal            | Yield<br>ft3/sack                      | Mix Fluid<br>Gal | Rate<br>bbl/min | Total Mix Fluid<br>Gal |
| 3                                   | HalCem™ H             | HALCEM (TM) SYSTEM                                | 410                               | sack    | 14.8                                 | 1.335                                  |                  | 5               | 6.4                    |
| 0.30 %                              |                       | HALAD(R)-9, 50 LB (100001617)                     |                                   |         |                                      |                                        |                  |                 |                        |
| 0.20 %                              |                       | HR-800, 50 LB SACK (101619742)                    |                                   |         |                                      |                                        |                  |                 |                        |
|                                     |                       |                                                   |                                   |         |                                      |                                        |                  |                 |                        |
| Fluid #                             | Stage Type            | Fluid Name                                        | Qty                               | Qty UoM | Mixing Density<br>lbm/gal            | Yield<br>ft3/sack                      | Mix Fluid<br>Gal | Rate<br>bbl/min | Total Mix Fluid<br>Gal |
| 4                                   | Displacement<br>Fluid | FRESH WATER                                       | 60                                | bbl     | 8.4                                  |                                        |                  |                 |                        |
|                                     |                       |                                                   |                                   |         |                                      |                                        |                  |                 |                        |
| <b>Cement Left In Pipe</b>          |                       | <b>Amount</b>                                     | 40 ft                             |         |                                      | <b>Reason</b>                          |                  | Shoe Joint      |                        |
| <b>Mix Water:</b>                   |                       | <b>pH ##</b>                                      | <b>Mix Water Chloride:</b> ## ppm |         |                                      | <b>Mix Water Temperature:</b> ## °F °C |                  |                 |                        |
| <b>Cement Temperature:</b> ## °F °C |                       | <b>Plug Displaced by:</b> ## lb/gal kg/m3<br>XXXX |                                   |         | <b>Disp. Temperature:</b> ## °F °C   |                                        |                  |                 |                        |
| <b>Plug Bumped?</b> Yes/No          |                       | <b>Bump Pressure:</b> ##### psi MPa               |                                   |         | <b>Floats Held?</b> Yes/No           |                                        |                  |                 |                        |
| <b>Cement Returns:</b> ## bbl m3    |                       | <b>Returns Density:</b> ## lb/gal kg/m3           |                                   |         | <b>Returns Temperature:</b> ## °F °C |                                        |                  |                 |                        |
| <b>Comment</b>                      |                       |                                                   |                                   |         |                                      |                                        |                  |                 |                        |

HALLIBURTON

Summary Report

Crew: \_\_\_\_\_  
Job Start Date: 01/09/2021 12:00 AM

Sales Order #: 0906887683  
WO #: 0906887683  
PO #: NA  
AFE #:

|                   |                             |                   |             |                     |                  |
|-------------------|-----------------------------|-------------------|-------------|---------------------|------------------|
| Customer:         | AMEREDEV OPERATING LLC-EBUS | Field:            |             | Job Type:           | CMT INTERMEDIATE |
| UWI / API Number: | 30-025-48081-00             | County/Parish:    | LEA         | Service Supervisor: | CASING BOM       |
| Well Name:        | INDEPENDENCE AGI            | State:            | NEW MEXICO  |                     | Gustavo Garza    |
| Well No:          | 1                           | Latitude:         | 32.120863   | Cust Rep Name:      | MARCUS           |
|                   |                             | Longitude:        | -103.291015 | Cust Rep Phone #:   |                  |
|                   |                             | Sect / Twn / Rng: | 20/25/36    |                     |                  |

| Remarks:                                 |                                      |      |
|------------------------------------------|--------------------------------------|------|
| The Information Stated Herein Is Correct | Customer Representative Signature    | Date |
|                                          | Customer Representative Printed Name |      |

**HALLIBURTON**

Customer: AMEREDEV OPERATING LLC-EBUS  
 Job: INDEPENDENCE AGI/1 INTERMEDIATE CASING BOM - SO# 0906887683  
 Case: Case 1

## 2.0 Real-Time Job Summary

## 2.1 Job Event Log

| Type  | Seq. No. | Activity                               | Graph Label                            | Date     | Time     | Source | Comb Pump Rate<br>(bbl/min) | Pump Stg Tot<br>(bbl) | DH Density<br>(ppg) | PS Pump Press<br>(psi) | Comments                                                                                                                                                                   |
|-------|----------|----------------------------------------|----------------------------------------|----------|----------|--------|-----------------------------|-----------------------|---------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Event | 1        | Call Out                               | Call Out                               | 1/8/2021 | 18:00:00 | USER   |                             |                       |                     |                        | CALL OUT BY STEVEN BECKWORTH FOR AMEREDEV OPERATING LLC-EBUS INDEPENDENCE AGI/1 7522 CMT INTERMEDIATE CASING BOM - SO# 0906887683 JOB TIME 00:00 AM ON 1/9/2021.           |
| Event | 2        | Depart Yard Safety Meeting             | Depart Yard Safety Meeting             | 1/8/2021 | 20:30:00 | USER   |                             |                       |                     |                        | HELD SAFETY MEETING WITH HES EMPLOYEES                                                                                                                                     |
| Event | 3        | Arrive at Location from Service Center | Arrive at Location from Service Center | 1/8/2021 | 23:00:00 | USER   |                             |                       |                     |                        | ARRIVED ON LOCATION. RIG WAS RUNNING CASING.                                                                                                                               |
| Event | 4        | Assessment Of Location Safety Meeting  | Assessment Of Location Safety Meeting  | 1/8/2021 | 23:10:00 | USER   |                             |                       |                     |                        | HELD SAFETY MEETING WITH HES EMPLOYEES                                                                                                                                     |
| Event | 5        | Pre-Rig Up Safety Meeting              | Pre-Rig Up Safety Meeting              | 1/8/2021 | 23:15:00 | USER   |                             |                       |                     |                        | HELD TAILGATING MEETING                                                                                                                                                    |
| Event | 6        | Rig-Up Equipment                       | Rig-Up Equipment                       | 1/8/2021 | 23:20:00 | USER   |                             |                       |                     |                        | SPOT IN EQUIPMENT \\ RIG UP IRON \\ WATER LINES \\ BULK LINES.                                                                                                             |
| Event | 7        | Comment                                | Comment                                | 1/8/2021 | 23:30:00 | USER   |                             |                       |                     |                        | TDEPTH= 3450 FT \\ TPIPE= 3412 FT \\ TOTAL DRILL PIPE 3412 FT \\ DP= 5" 19.50# \\ ST= 47.10 FT FT \\ OH= 22" \\ CASING 20" 133 # N-80 \\ P/C= 24" 186.23 # SET AT 1383 FT. |
| Event | 8        | Rig-Up Completed                       | Rig-Up Completed                       | 1/9/2021 | 01:00:00 | USER   |                             |                       |                     |                        | RIG UP COMPLETED                                                                                                                                                           |

**HALLIBURTON**

Customer: AMEREDEV OPERATING LLC-EBUS  
 Job: INDEPENDENCE AGI/1 INTERMEDIATE CASING BOM - SO# 0906887683  
 Case: Case 1

|       |    |                        |                        |          |          |      |      |        |       |        |                                                                                                                                                             |
|-------|----|------------------------|------------------------|----------|----------|------|------|--------|-------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Event | 9  | Pre-Job Safety Meeting | Pre-Job Safety Meeting | 1/9/2021 | 15:00:00 | USER | 0.00 | 0.00   | 0.08  | 20.00  | HELD SAFETY MEETING WITH ALL PERSONNEL ON LOCATION.                                                                                                         |
| Event | 10 | Start Job              | Start Job              | 1/9/2021 | 15:35:21 | COM3 |      |        |       |        | START JOB WITH FULL RETURNS.                                                                                                                                |
| Event | 11 | Prime Pumps            | Prime Pumps            | 1/9/2021 | 15:35:29 | COM3 | 0.00 | 0.00   | 8.50  | 18.00  | FILL LINES WITH 3 BBLS OF FRESH WATER.                                                                                                                      |
| Event | 12 | Test Lines             | Test Lines             | 1/9/2021 | 15:37:38 | COM3 | 0.00 | 2.40   | 8.52  | 40.00  | TES HELD \ 500 PSI LOW TEST \ HIGH TEST 3500 PSI                                                                                                            |
| Event | 13 | Pump Spacer 1          | Pump Spacer 1          | 1/9/2021 | 15:41:31 | COM3 | 0.00 | 0.00   | 8.50  | 45.00  | PUMPED 40 BBLS OF MUD FLUSH III. 160 LBS OF MUD FLUSH, ANHIB II, BE-9 . 4 BPM - 200 PSI.                                                                    |
| Event | 14 | Pump Lead Cement       | Pump Lead Cement       | 1/9/2021 | 15:54:48 | COM3 | 3.90 | 0.00   | 8.53  | 506.00 | PUMP LEAD CEMENT \ 635 SKS \ 308 BBLS \ 11 PPG \ 2.722 YLD \ 16.9 GAL-SKS \ 5 BPM/ 600 PSI \ DENSITY VERIFIED WITH PRESSURIZED MUD SCALES , 5 BPM- 600 PSI. |
| Event | 15 | Check Weight           | Check Weight           | 1/9/2021 | 16:21:04 | COM3 | 5.00 | 131.40 | 11.11 | 199.00 |                                                                                                                                                             |
| Event | 16 | Check Weight           | Check Weight           | 1/9/2021 | 16:21:17 | COM3 | 5.00 | 132.50 | 11.09 | 185.00 |                                                                                                                                                             |
| Event | 17 | Check Weight           | Check Weight           | 1/9/2021 | 16:25:12 | COM3 | 5.00 | 152.30 | 11.14 | 183.00 |                                                                                                                                                             |
| Event | 18 | Check Weight           | Check Weight           | 1/9/2021 | 16:36:56 | COM3 | 5.00 | 211.30 | 10.91 | 189.00 |                                                                                                                                                             |
| Event | 19 | Pump Tail Cement       | Pump Tail Cement       | 1/9/2021 | 17:00:31 | COM3 |      |        |       |        | PUMP TAIL CEMENT \ 410 SKS \ 97 BBLS \ 14.8 PPG \ 1.33 YLD \ 6.36 GAL-SKS \ 5 BPM / 420 PSI DENSITY VERIFIED WITH PRESSURIZED MUD SCALES.                   |
| Event | 20 | Check Weight           | Check Weight           | 1/9/2021 | 17:03:36 | COM3 | 5.00 | 15.50  | 14.90 | 460.00 |                                                                                                                                                             |
| Event | 21 | Shutdown               | Shutdown               | 1/9/2021 | 17:21:59 | USER | 0.00 | 99.80  | 15.30 | 102.00 | SHUT DOWN. CLEAN LINES TO OPEN TOP.                                                                                                                         |

iCem® Service

(v. 5.1.101.0)

Created: Saturday, January 09, 2021

**HALLIBURTON**

Customer: AMEREDEV OPERATING LLC-EBUS  
 Job: INDEPENDENCE AGI/1 INTERMEDIATE CASING BOM - SO# 0906887683  
 Case: Case 1

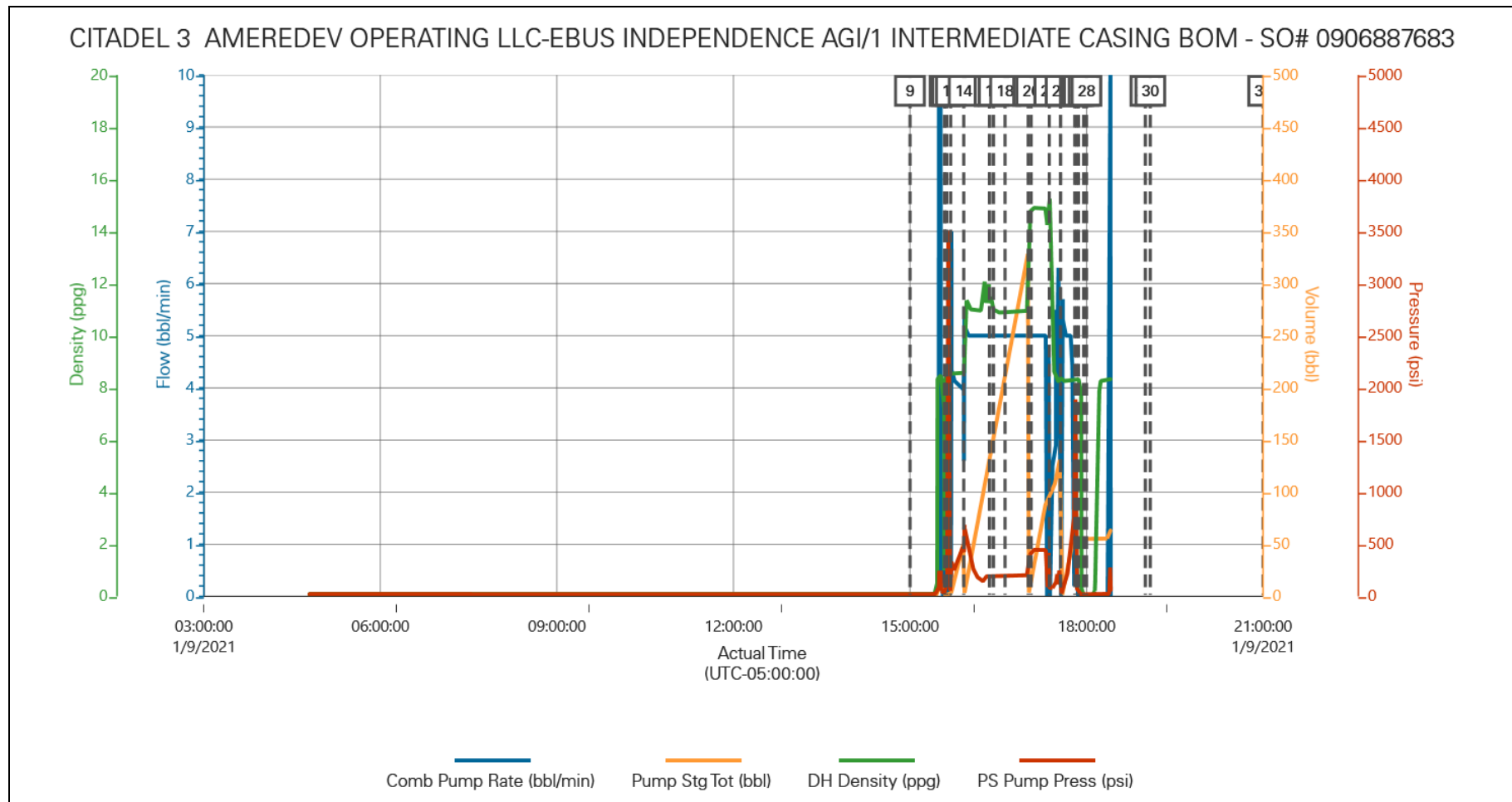
|       |    |                                                  |                                                  |          |          |      |      |       |       |        |  |                                                                                                                                                            |
|-------|----|--------------------------------------------------|--------------------------------------------------|----------|----------|------|------|-------|-------|--------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Event | 22 | Drop Top Plug                                    | Drop Top Plug                                    | 1/9/2021 | 17:33:25 | COM3 |      |       |       |        |  | DROP HSE DART PLUG                                                                                                                                         |
| Event | 23 | Pump Displacement                                | Pump Displacement                                | 1/9/2021 | 17:33:30 | COM3 |      |       |       |        |  | PUMPED DISPALCEMENT 60 BBLS OF FRESHWATER. 5 BPM - 300 PSI.                                                                                                |
| Event | 24 | Bump Plug                                        | Bump Plug                                        | 1/9/2021 | 17:48:01 | COM3 |      |       |       |        |  | PLUG LANDED AT 55 BBLS DISPLACED/ FINAL LIFT 640 PSI TO BUMP 1840 PSI / FULL RETURNS THROUGHOUT JOB/CIRCULATED 30 BBLS OF MUD FLUSH III SPACER TO SURFACE. |
| Event | 25 | Check Floats                                     | Check Floats                                     | 1/9/2021 | 17:50:00 | USER | 0.00 | 55.20 | 8.36  | 901.00 |  | FLOATS HELD 0.5 BBLS BACK.                                                                                                                                 |
| Event | 26 | End Job                                          | End Job                                          | 1/9/2021 | 17:51:52 | COM3 | 0.00 | 55.20 | 8.32  | 20.00  |  | END JOB.                                                                                                                                                   |
| Event | 27 | Pre-Rig Down Safety Meeting                      | Pre-Rig Down Safety Meeting                      | 1/9/2021 | 17:57:00 | USER | 0.00 | 55.20 | -0.05 | 18.00  |  | HELD SAFETY MEETING WITH HES EMPLOYEES                                                                                                                     |
| Event | 28 | Rig-Down Equipment                               | Rig-Down Equipment                               | 1/9/2021 | 18:00:00 | USER | 0.00 | 55.20 | -0.06 | 19.00  |  | RIG DOWN LINES                                                                                                                                             |
| Event | 29 | Wait on Orders - Start Time                      | Wait on Orders - Start Time                      | 1/9/2021 | 19:00:00 | USER |      |       |       |        |  | WAITING ON ORDERS. PER DSM AND HSE ENIGNEER.                                                                                                               |
| Event | 30 | Rig-Down Completed                               | Rig-Down Completed                               | 1/9/2021 | 19:05:00 | USER |      |       |       |        |  | RIG DOWN COMPLETED                                                                                                                                         |
| Event | 31 | Wait on Orders - End Time                        | Wait on Orders - End Time                        | 1/9/2021 | 21:00:00 | USER |      |       |       |        |  | END TIME.                                                                                                                                                  |
| Event | 32 | Paper Work                                       | Paper Work                                       | 1/9/2021 | 22:00:08 | USER |      |       |       |        |  | SUPERVISOR FINISHED PAPERWORK                                                                                                                              |
| Event | 33 | Pre-Convoy Safety Meeting                        | Pre-Convoy Safety Meeting                        | 1/9/2021 | 22:15:00 | USER |      |       |       |        |  | HELD SAFETY MEETING WITH HES EMPLOYEES                                                                                                                     |
| Event | 34 | Depart Location for Service Center or Other Site | Depart Location for Service Center or Other Site | 1/9/2021 | 22:30:00 | USER |      |       |       |        |  | CREW LEAVE LOCATION.                                                                                                                                       |

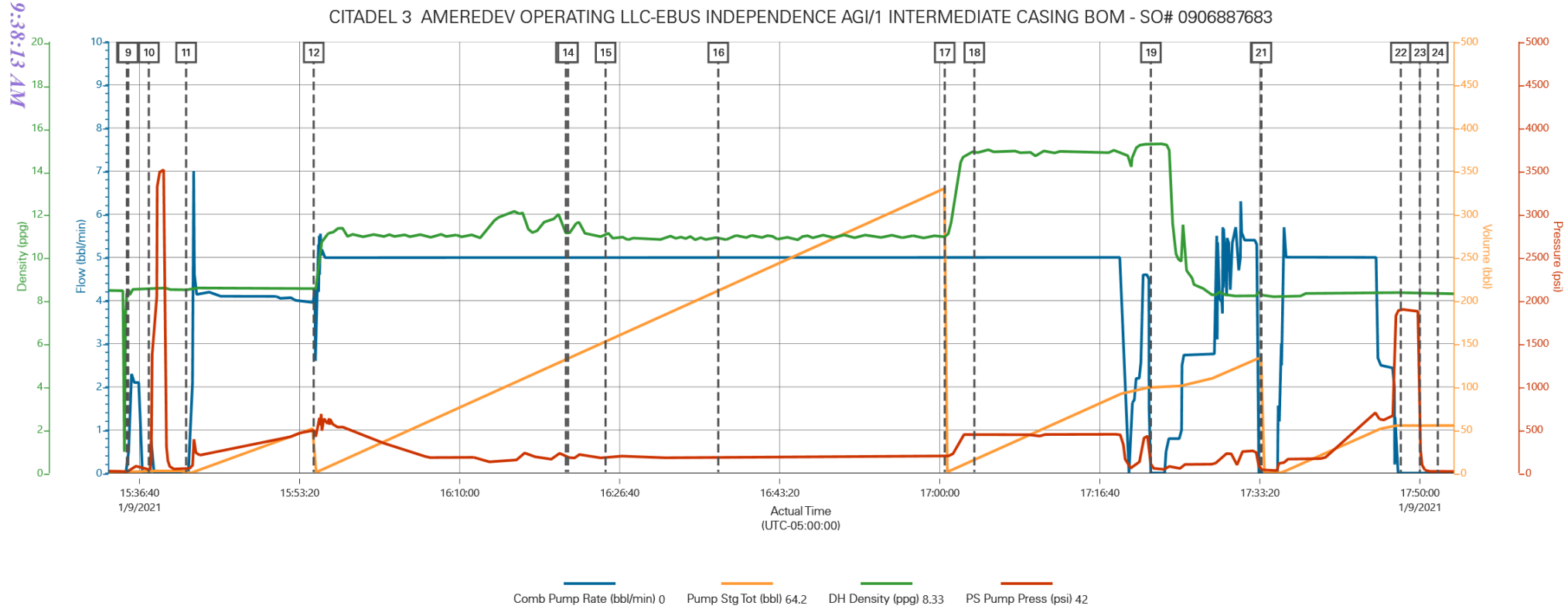
**HALLIBURTON**

Customer: AMEREDEV OPERATING LLC-EBUS  
Job: INDEPENDENCE AGI/1 INTERMEDIATE CASING BOM - SO# 0906887683  
Case: Case 1

## 3.0 Custom Graphs

## 3.1 Custom Graph









|                 |           |       |       |
|-----------------|-----------|-------|-------|
| Date:           | 1/13/2021 | Time: | 19:00 |
| Truck Called:   | 1/13/2021 |       |       |
| Arrived at job: | 1/14/2021 |       | 0:00  |
| Start Job:      | 1/14/2021 |       | 1:00  |
| Finish Job:     | 1/14/2021 |       | 4:00  |
| Leave Location: | 1/14/2021 |       | 4:30  |

## Job Log

|                                  |          |                                 |                  |                        |        |                          |                          |                        |                  |
|----------------------------------|----------|---------------------------------|------------------|------------------------|--------|--------------------------|--------------------------|------------------------|------------------|
| <b>Trans Tex Services</b>        |          | Customer Name:                  |                  | Ameredev Operating LLC |        | Ticket Number:           |                          | 21-502                 |                  |
| P.O. Box 50455                   |          | Lease Name:                     |                  | Independence AGI       |        |                          |                          |                        |                  |
| 5019 Basin St., Midland TX 79703 |          | Well #:                         |                  | 1                      |        | Supervisor:              |                          | Jr. Galvan             |                  |
| Office# 432-694-4900             |          | Type of Job:                    |                  | Squeeze Casing         |        | County:                  |                          | Lea                    |                  |
| Fax # 432-699-4021               |          | Date:                           |                  | 1/14/2021              |        | CUSTOMER REPRESENTATIVE: |                          | Ameredev Operating LLC |                  |
| Tubing Size:                     |          | Casing size:                    |                  | 20'                    |        | Liner size:              |                          |                        |                  |
| Tubing weight:                   |          | Casing weight:                  |                  |                        |        | Top of Liner:            |                          |                        |                  |
| Tubing bbl/Inft                  |          | Total Depth:                    |                  | 276'                   |        | Bottom of Liner:         |                          |                        |                  |
| Retainer depth:                  |          | Total Pipe:                     |                  |                        |        | Annular Volume:          |                          |                        |                  |
| Packer depth:                    |          | Open Hole:                      |                  |                        |        | BHST:                    |                          |                        |                  |
| Perfs:                           |          | Shoe Joint:                     |                  |                        |        | BHCT:                    |                          |                        |                  |
| Holes in casing:                 |          | Displacement:                   |                  |                        |        | Maximum:                 |                          | 500 Psi                |                  |
|                                  |          | Pre-Flush:                      |                  |                        |        |                          |                          |                        |                  |
| <b>Sks.</b>                      |          | <b>Cement Additives</b>         |                  |                        |        |                          |                          |                        |                  |
| Single                           | 217      | CLASS C + 1% CFR-1 + 0.4% CFL-5 |                  |                        |        |                          |                          |                        |                  |
|                                  | Cmt. Wt. | 14.80                           | Yield            | 1.35                   | Gal/sk | 6.44                     | Mixing Water:            | 33.3                   | :bbls            |
|                                  |          |                                 |                  |                        |        |                          | Total Ft. <sup>3</sup> : | 292.1                  | ft. <sup>3</sup> |
|                                  |          |                                 |                  |                        |        |                          | Mixing Water:            |                        | :bbls            |
|                                  |          |                                 |                  |                        |        |                          | Total Ft. <sup>3</sup> : |                        | ft. <sup>3</sup> |
|                                  |          |                                 |                  |                        |        |                          | Mixing Water:            |                        | :bbls            |
|                                  |          |                                 |                  |                        |        |                          | Total Ft. <sup>3</sup> : |                        | ft. <sup>3</sup> |
|                                  |          |                                 |                  |                        |        |                          | Mixing Water:            |                        | :bbls            |
|                                  |          |                                 |                  |                        |        |                          | Total Ft. <sup>3</sup> : |                        | ft. <sup>3</sup> |
| Total sks:                       |          | 217                             | sks.             | Total Bbls. Cmt.:      |        | #VALUE!                  | :Bbls                    | Total Water for Job:   |                  |
| Total Ft. <sup>3</sup> :         |          | #VALUE!                         | ft. <sup>3</sup> | Total Mix Water:       |        | 33.28                    | :Bbls                    |                        |                  |

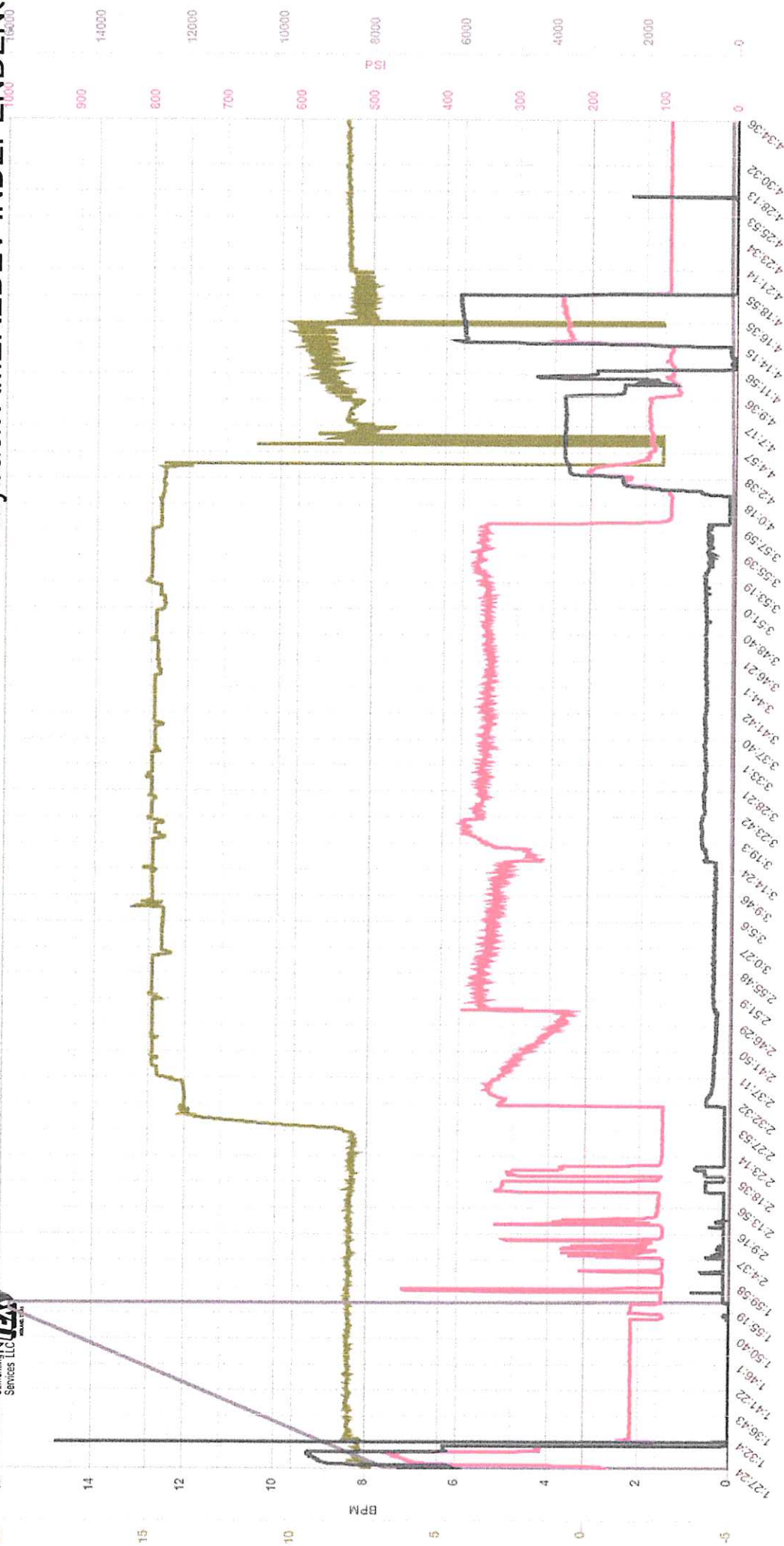
## Cement Systems

|                |  |
|----------------|--|
| Cement System: |  |
| Cement System: |  |

| Time                   | Injection Rate |      |       | Job Pressure |         | Job Log Remarks                                                 |
|------------------------|----------------|------|-------|--------------|---------|-----------------------------------------------------------------|
|                        | Rate           | BBLS | #/Gal | Tbg psi      | Csg psi |                                                                 |
| 00:00                  |                |      |       |              |         | Arrive to Location                                              |
| 00:20                  |                |      |       |              |         | Rig Up                                                          |
| 00:00                  |                |      |       |              |         | Safety Meeting                                                  |
| 00:23                  | 0.5            | 3    |       | 250          |         | water Injection rt @ 0.5bpm with 250psi                         |
| 00:33                  | 0.4            | 1    |       | 320          |         | Cement Slurry @ 0.4bpm with 320psi                              |
| 00:16                  | 0.5            | 10.5 |       | 300          |         | At 10.5bbls cement gone we open 2nd valve at 0.5bpm with 300psi |
| 00:44                  | 0.4            | 25   |       | 330          |         | At 25bbls gone we get cement back at 0.4bpm with 330psi         |
| 00:00                  |                | 32   |       |              |         | At 32bbls cmt gone we shut down & Rig Down                      |
| 00:00                  |                |      |       |              |         | End Job                                                         |
|                        |                |      |       |              |         | Circulated cmt back 7bbls=29sks                                 |
|                        |                |      |       |              |         | Good circulation the whole job.                                 |
| SERVICE REPRESENTATIVE |                |      |       | Signature    |         | CUSTOMER REPRESENTATIVE                                         |
| Jr. Galvan             |                |      |       |              |         | X <i>Stephen Ratt</i>                                           |
|                        |                |      |       |              |         | Signature                                                       |

Playback AMEREDEV INDEPENDENCE

Rate Disc Press sig Vol Density

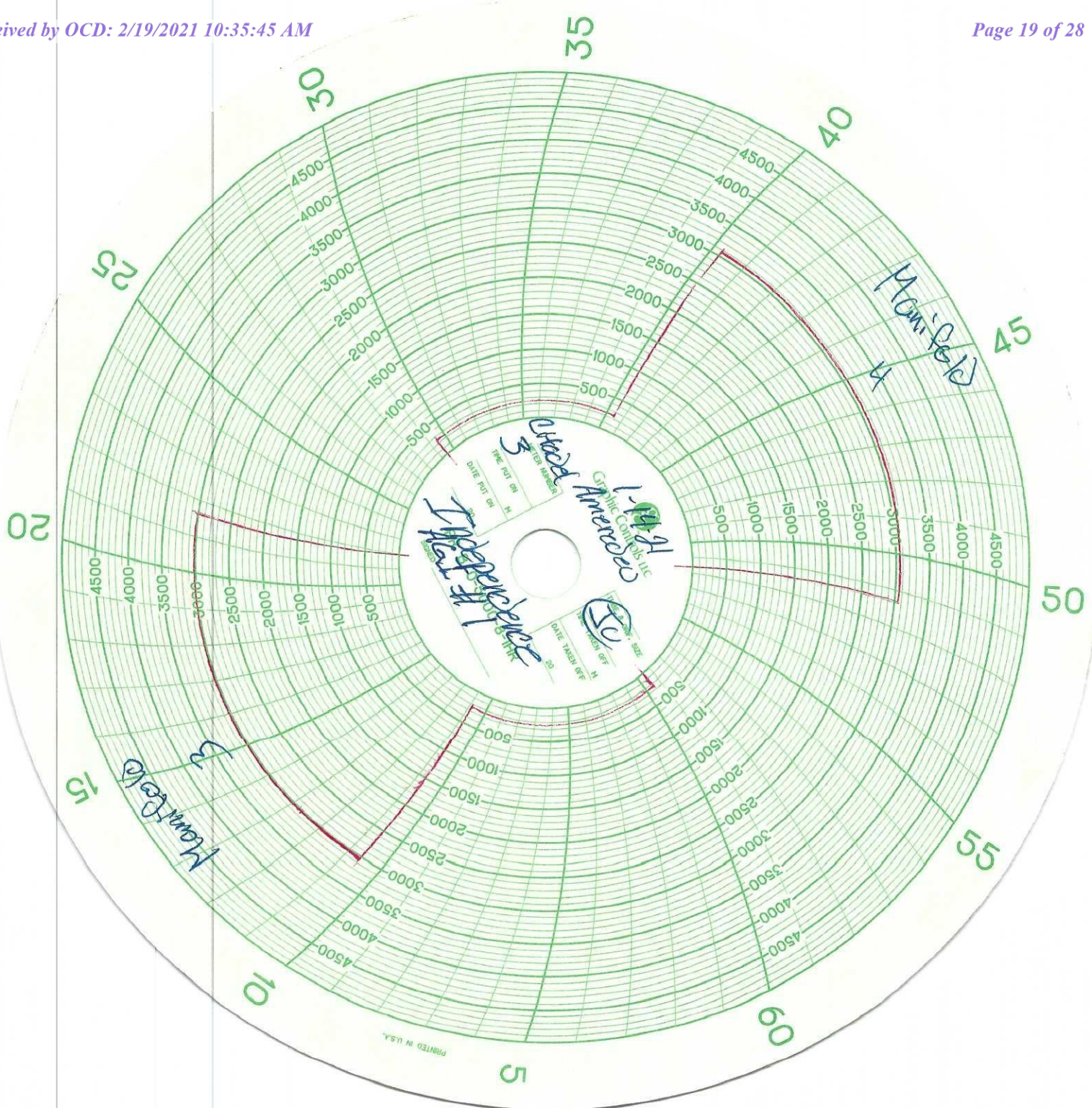


Thu Jan 14 2021 04:36:05 GMT-0600 (Central Standard Time)

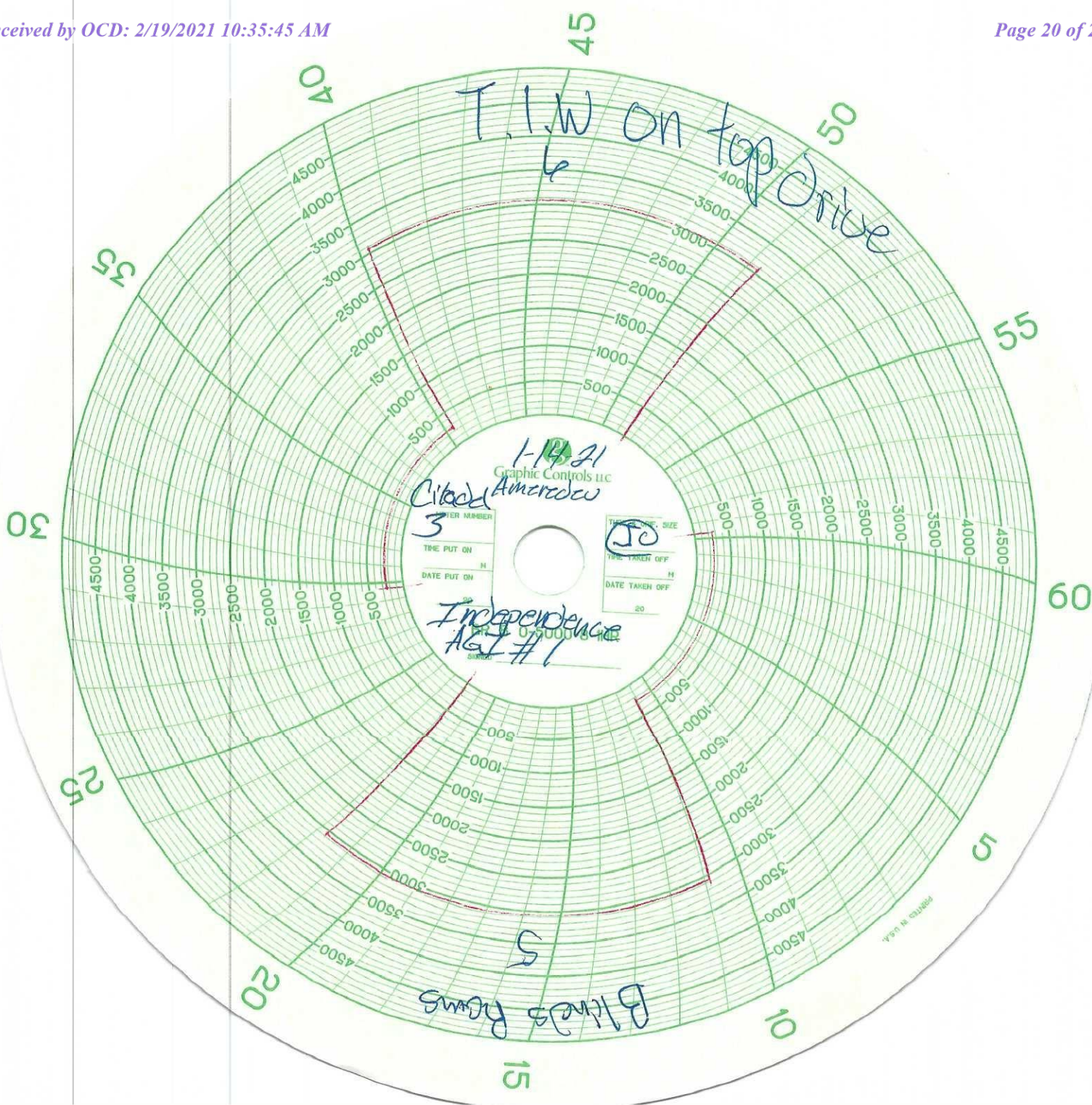




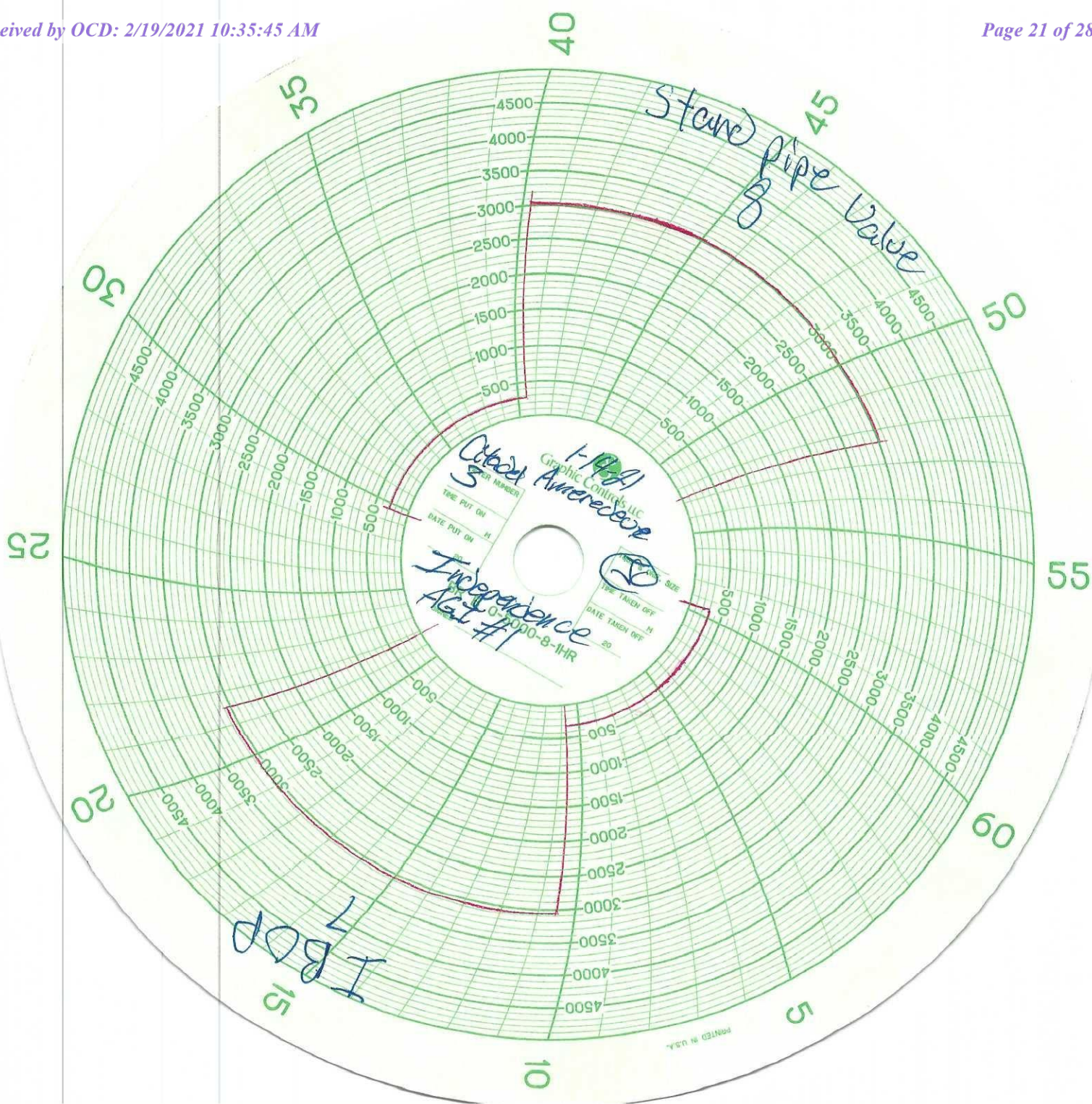




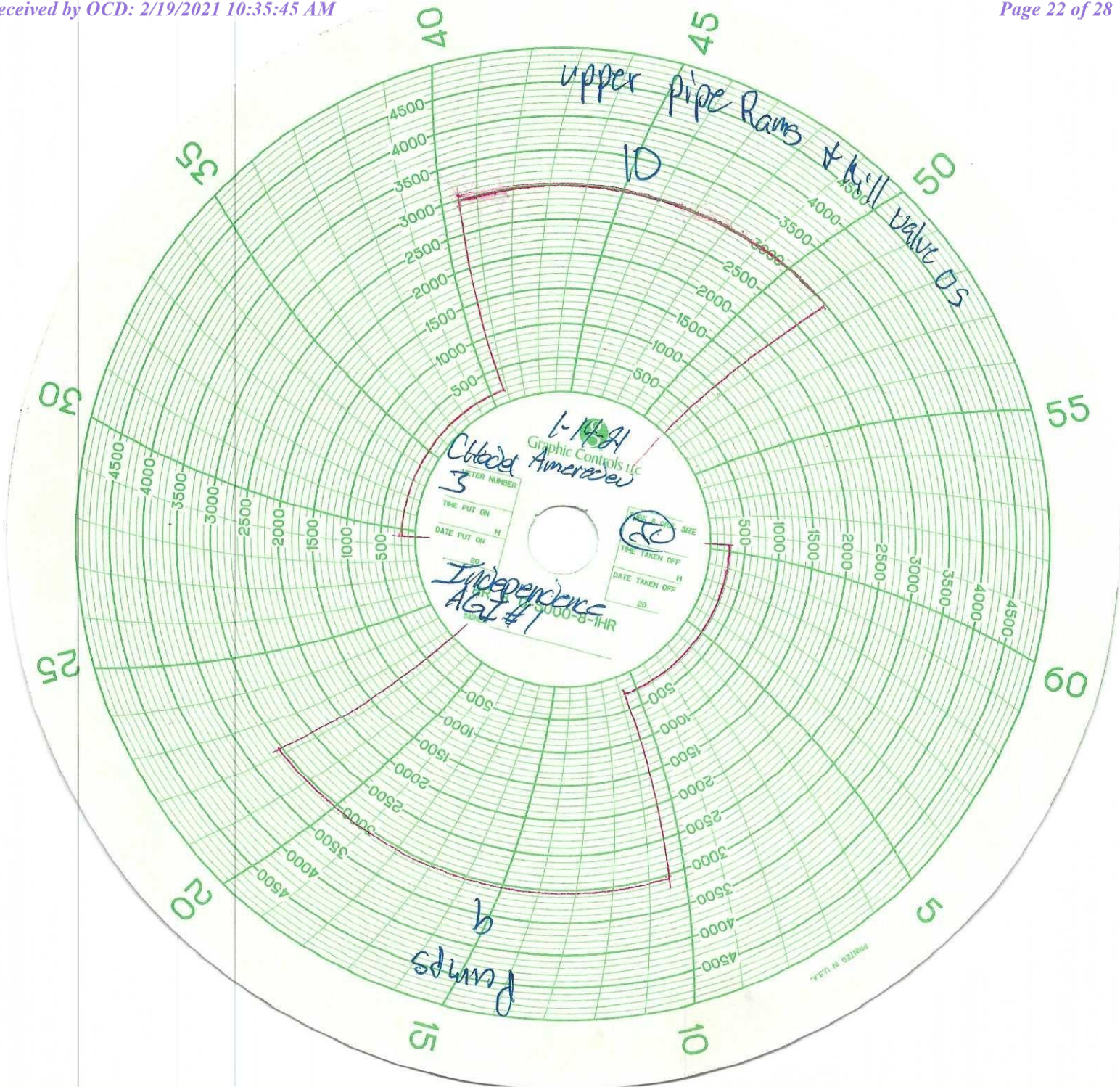








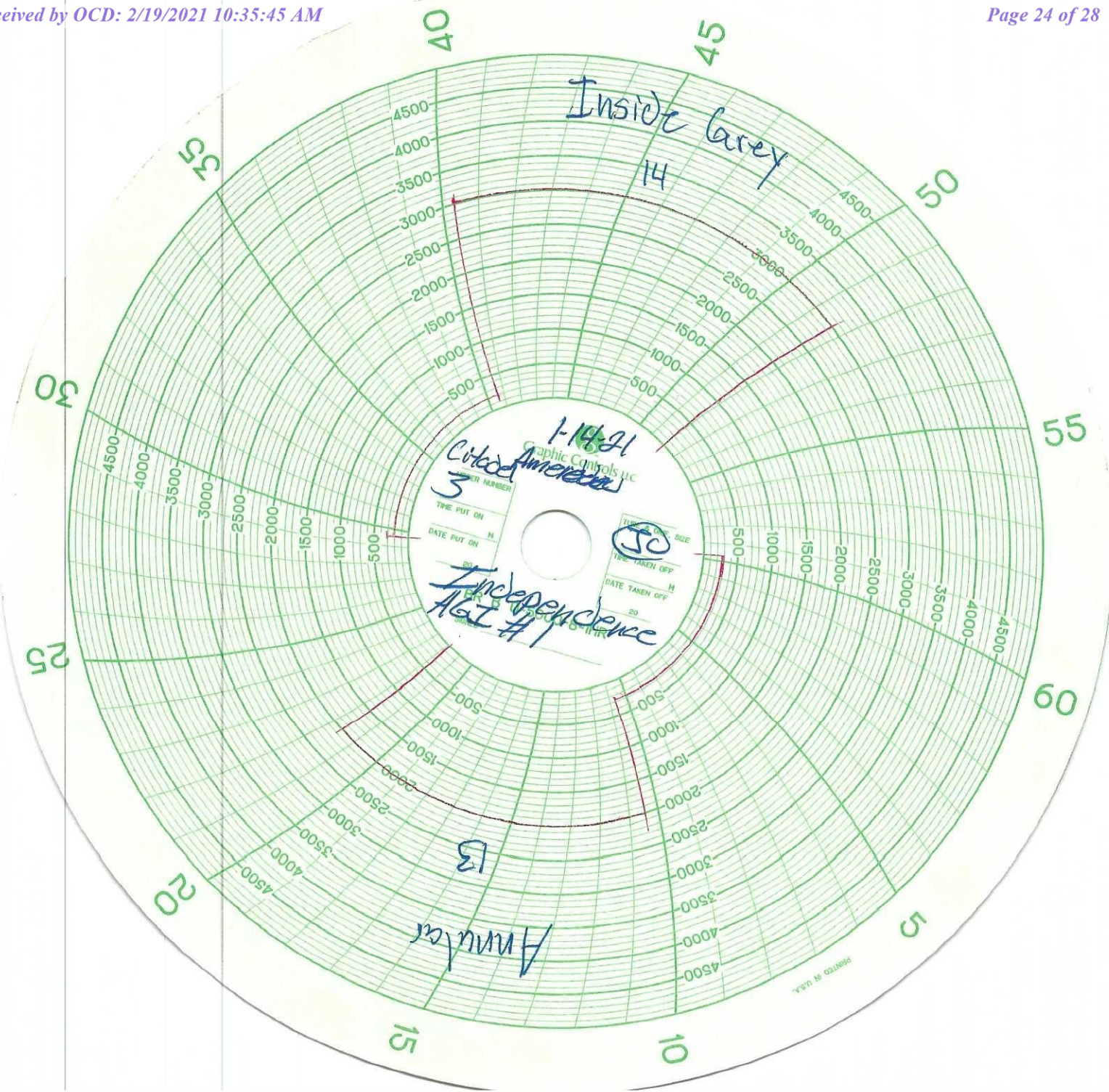




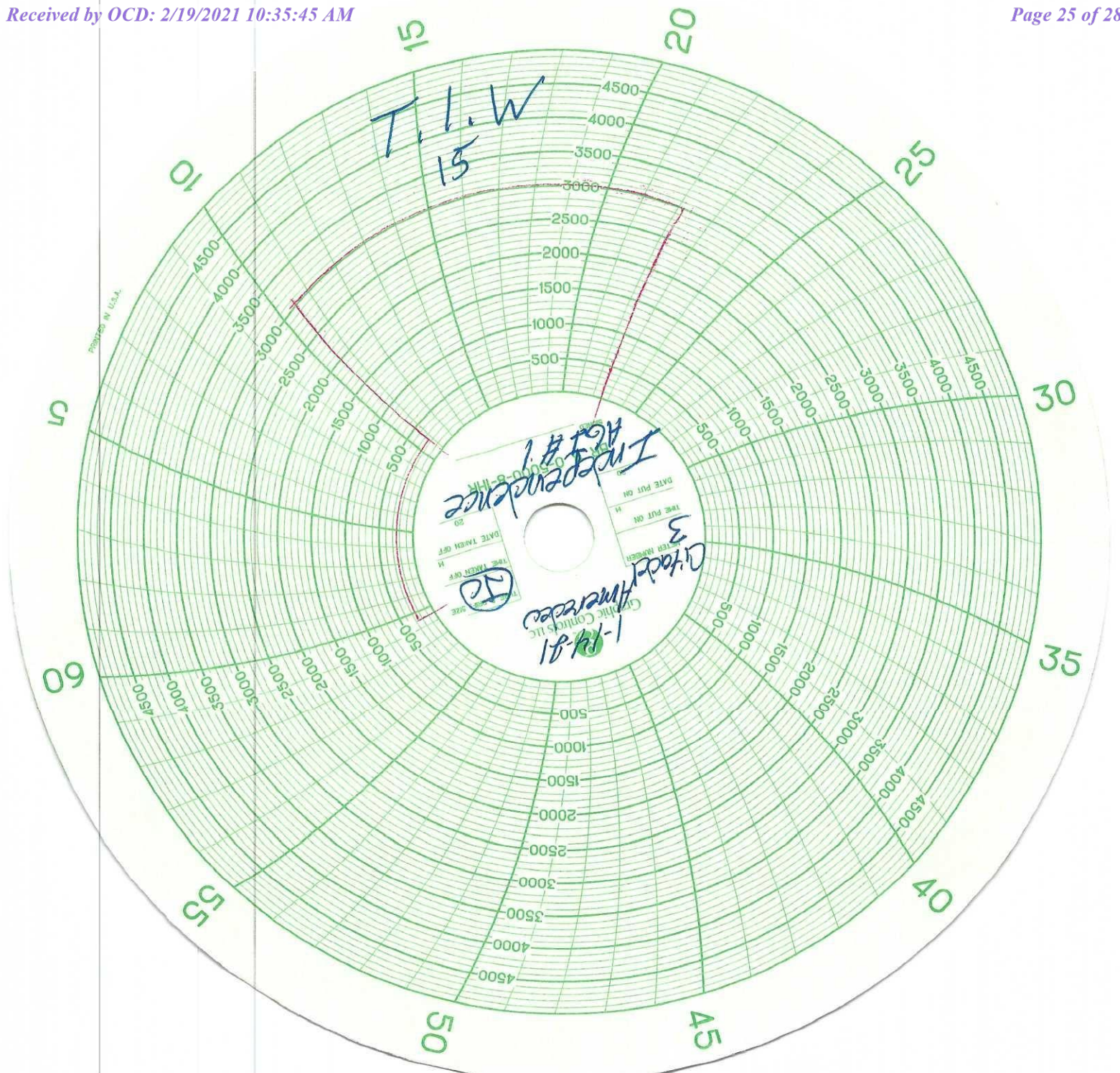




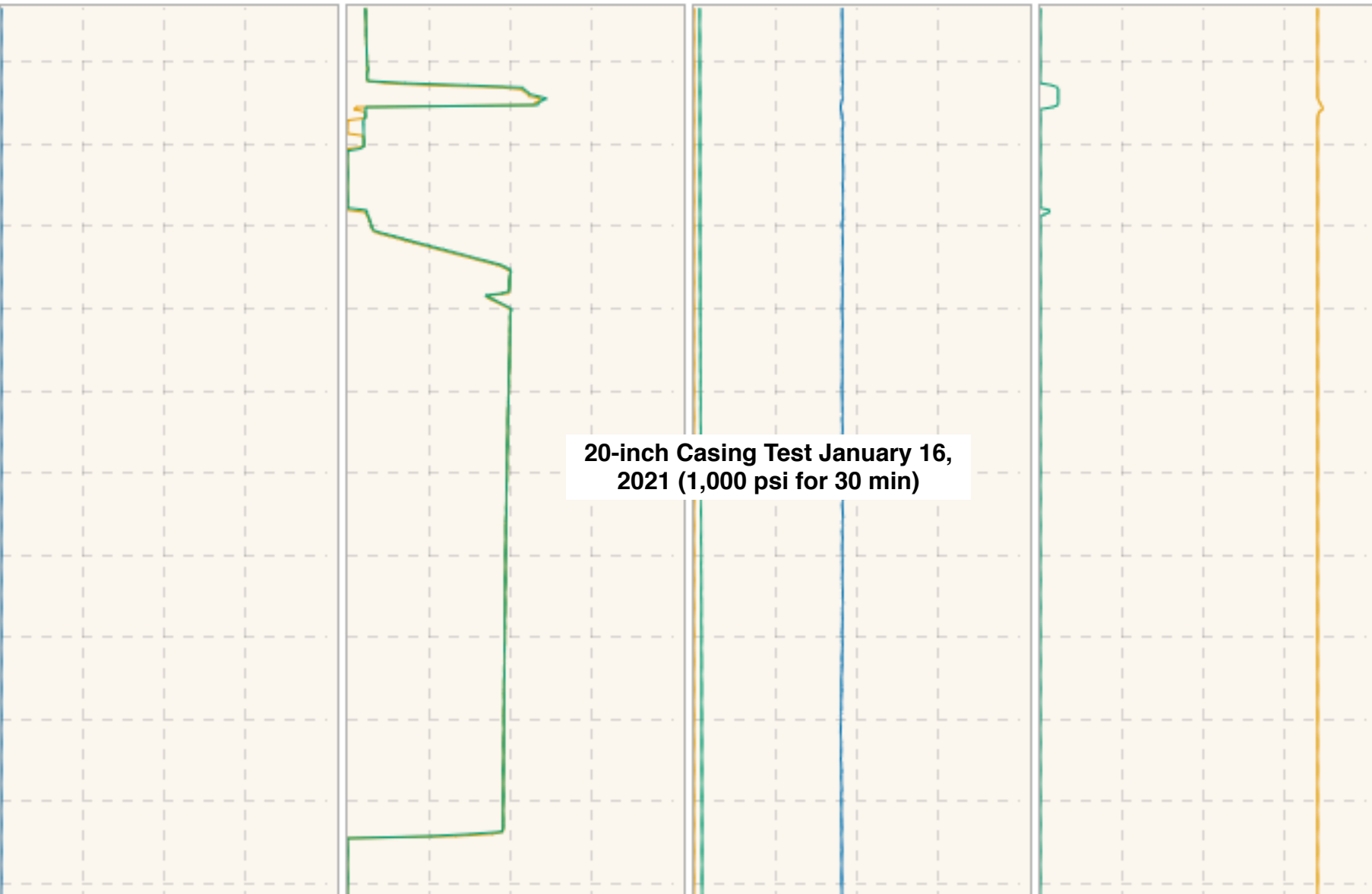








| Time     | Depth | Direction |
|----------|-------|-----------|
| 00:05:00 |       | Out in    |
|          | 3400  |           |
| 00:10:00 |       |           |
| 00:15:00 |       |           |
| 00:20:00 |       |           |
| 00:25:00 |       |           |
| 00:30:00 |       |           |
| 00:35:00 |       |           |
| 00:40:00 |       |           |
| 00:45:00 |       |           |
| 00:50:00 |       |           |
| 00:55:00 |       |           |



Search

VIEW ENTRIES

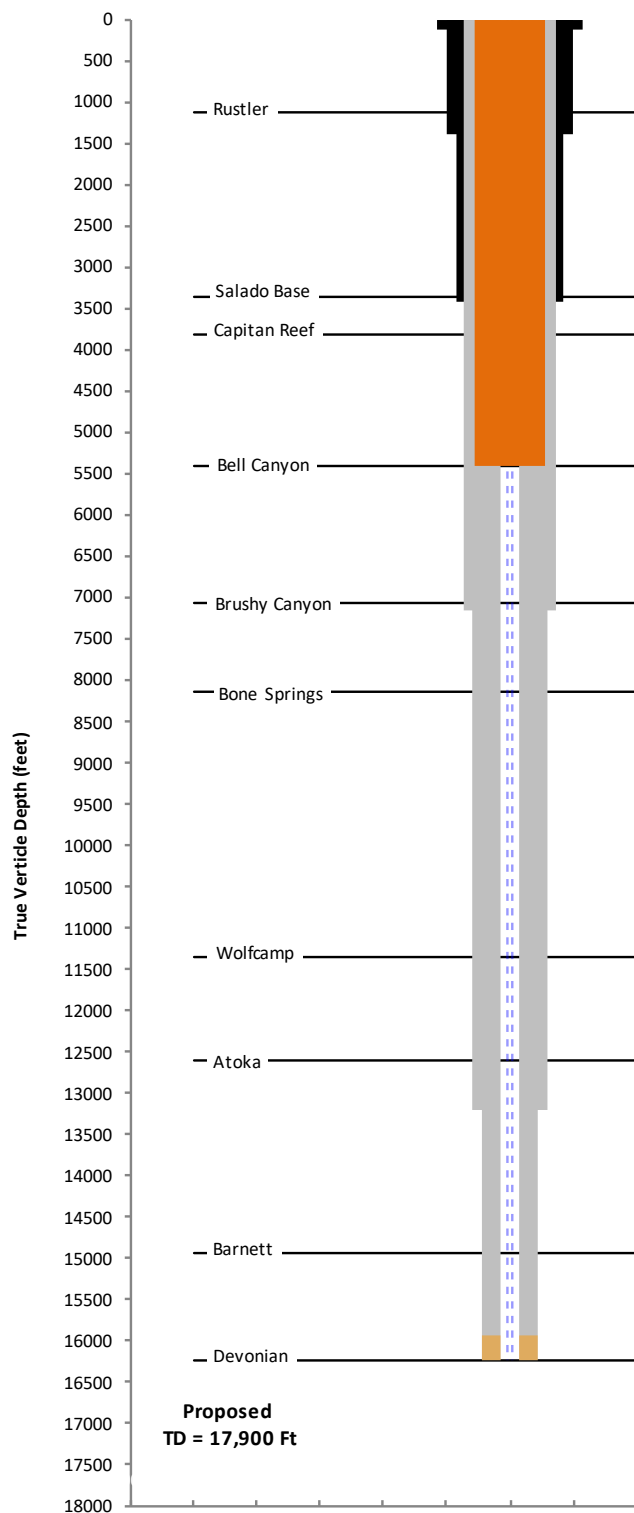
01/16 00:51:00  
GOOD TEST



**Well Name:** Ameredev Independence AGI #1 (API: 30-025-48081)

Surface Location: Section 20, T-25-S, R-36-E, Lea Co., New Mexico  
(829' FNL & 1443' FWL) - GL: 3,103' (KB: 24.5')

**GEOLEX**<sup>®</sup>  
INCORPORATED

**CONDUCTOR CASING:**

36", 125.72 lb/ft, at 116 ft, cement to surface

**SURFACE CASING:**

24-inch, X65, 186 lb/ft, XLF casing at 0-1,383 ft in 26-in hole (35 jts) , cmt to surf (129 sx)

**1ST INTERMEDIATE CASING:**

20-inch, NT-80DE, 133 lb/ft, BTC casing at 0-3412 ft in 22-in hole, did not circ. cmt. to surf.  
An additional 30 bbls of cement was placed with 3/4-inch spear, circulated to surface (29 sx)

**CURRENT DEPTH = 5,400 Feet with 17 1/2-inch bit.**

**2ND INTERMEDIATE CASING:**

13 5/8-inch, Q125, 88.2 lb/ft, BTC casing at 0-7150 ft in 17 1/2-in hole, cmt to surf (297 sx)

**3RD INTERMEDIATE CASING:**

9 5/8-inch, L80-HC, 47 lb/ft, BTC casing at 0-9000 ft in 12 1/4-in hole, cmt to surf (297 sx)  
9 5/8-inch, P110HP, 47 lb/ft, BTC csg at 9,000-13,200 ft in 12 1/4-in hole

**PRODUCTION CASING:**

7-inch, VA HC P110, 32 lb/ft, VARN, casing at 0-15,930 ft in 8 1/2-in hole, cmt to surf (297 sx)

Proposed TD Location: Section 20, T-25-S, R-36-E, Lea Co., New Mexico  
(829' FNL & 1443' FWL)

**AMEREDEV**

**Independence AGI #1**

**Plate 1**

**Wellbore Completion Schematic**

**January 18, 2021**

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS

Action 18342

CONDITIONS

|                                                                              |                                                |
|------------------------------------------------------------------------------|------------------------------------------------|
| Operator:<br>AMEREDEV OPERATING, LLC<br>2901 Via Fortuna<br>Austin, TX 78746 | OGRID:<br>372224                               |
|                                                                              | Action Number:<br>18342                        |
|                                                                              | Action Type:<br>[C-103] Sub. Drilling (C-103N) |

CONDITIONS

|            |           |                |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| ksimmons   | None      | 8/3/2021       |