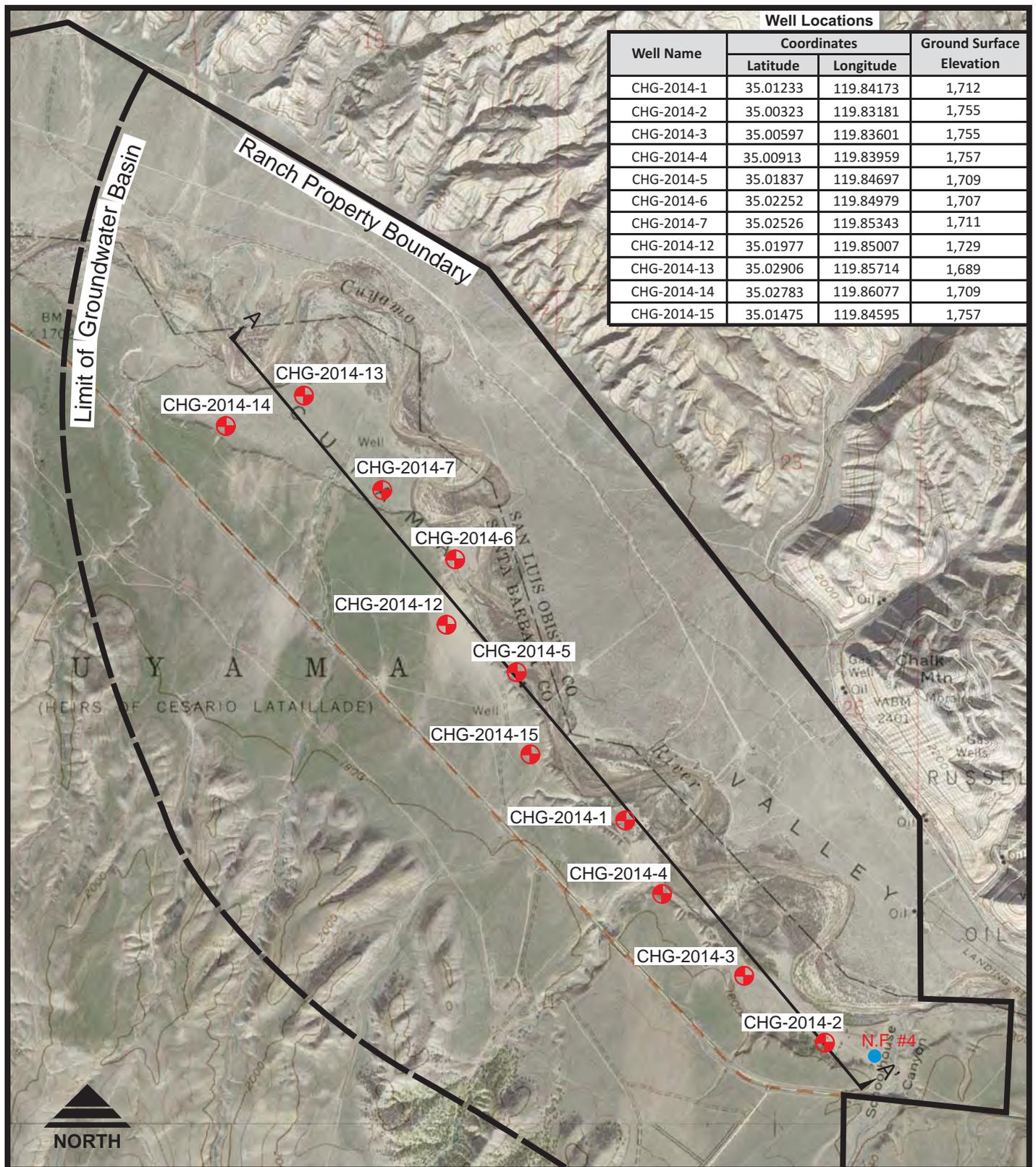


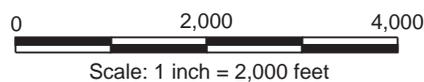
This material dates to Dec 2015 and updates cross-sections and other data from the 2013 Exploration Memo

N. Currie

Cleath-Harris Geologists



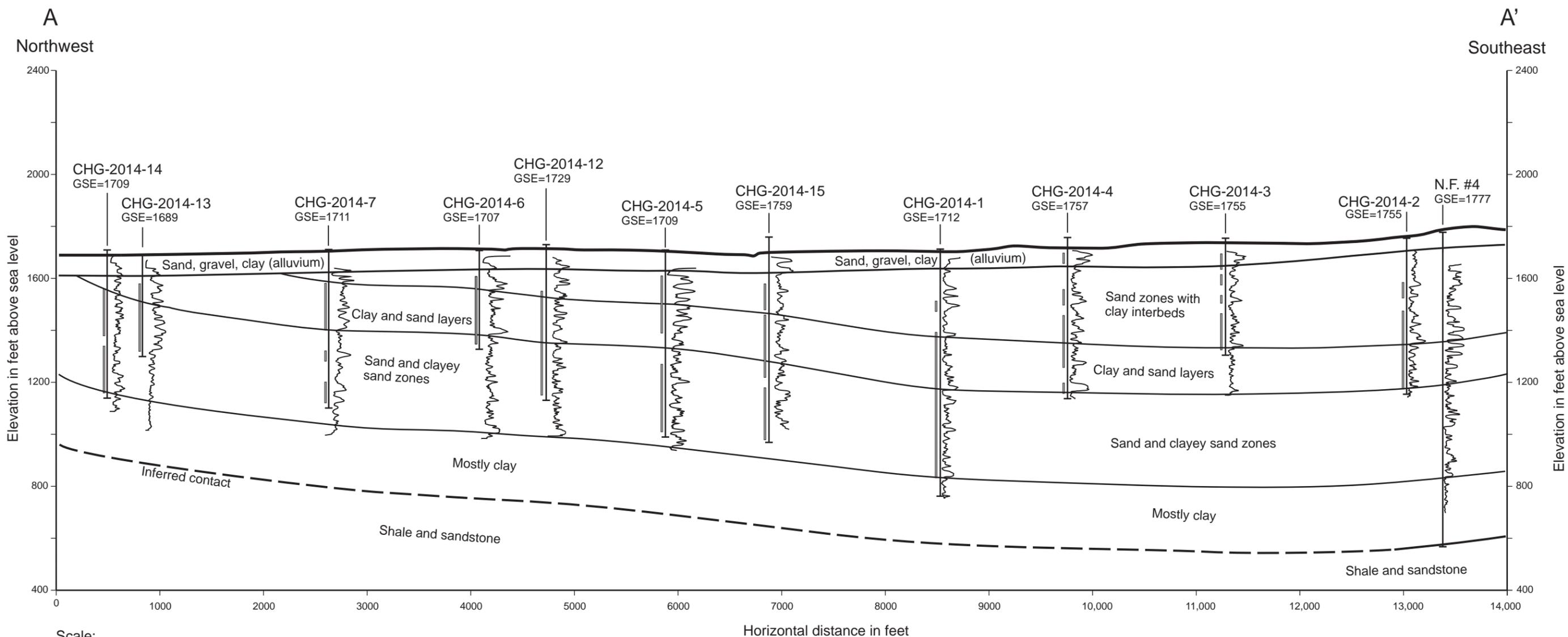
Base map: U.S.G.S. 7.5 minute topographic, Caliente Mountain Quadrangle, California 1959



Explanation

-  Completed well location
-  Test well location
-  Cross Section alignment

Figure 1
Well Locations
 North Fork Ranch
 (December 1, 2015)
 Grapevine Capital Partners
 Cleath-Harris Geologists



Scale:
1 inch = 400 feet (vertical)
1 inch = 1,000 feet (horizontal)

Cross-section alignment shown on Figure 1

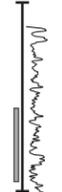
| Explanation | |
|---|--|
| CHG-2014-15 GSE=1759 | Irrigation well showing perforated interval. Ground surface elevation (GSE) in feet above sea level. |
|  | Resistivity log shown adjacent to well. |

Figure 2
Geologic Cross-Section A-A'
North Fork Ranch
(December 1, 2015)
Grapevine Capital Partners

Table 1
Well Construction Information
North Fork Ranch, Grapevine Capital Partners

| Well | Coordinates | | GSE (ft) | TD (ft) | Completion Date | Casing | Screened Interval (ft) | Slot Size (inches) | Filter Pack | Borehole Diameter (inches) | Seal Depth (ft) |
|-------------|-------------|-----------|-------------|------------|--------------------|-----------------------------|-----------------------------------|-----------------------|----------------|----------------------------------|--------------------|
| | Latitude | Longitude | | | | | | | | | |
| CHG-2014-1 | 35.01233 | 119.84173 | 1,712 | 900 | 11/21/2014 | 14-inch mild steel, louvers | 200-240; 320-880 | 0.050 | 8x16 | 24 | 170 |
| CHG-2014-2 | 35.00323 | 119.83181 | 1,755 | 600 | 12/12/2014 | 14-inch mild steel, louvers | 170-230; 280-580 | 0.050 | 8x16 | 24 | 100 |
| CHG-2014-3 | 35.00597 | 119.83601 | 1,755 | 450 | 12/19/2014 | 14-inch mild steel, louvers | 60-120; 140-180; 220-250; 290-430 | 0.050 | 8x16 | 24 | 50 |
| CHG-2014-4 | 35.00913 | 119.83959 | 1,757 | 620 | 1/5/2015 | 14-inch mild steel, louvers | 60-100; 200-260; 300-500; 560-600 | 0.050 | 8x16 | 24 | 50 |
| CHG-2014-5 | 35.01837 | 119.84697 | 1,709 | 730 | 7/17/2015 | 12-inch PVC | 100-340; 460-720 | 0.040 | 8x20 | 20 | 50 |
| CHG-2014-6 | 35.02252 | 119.84979 | 1,707 | 380 | 7/12/2015 | 12-inch PVC | 100-360 | 0.040 | 8x20 | 20 | 50 |
| CHG-2014-7 | 35.02526 | 119.85343 | 1,711 | 610 | 6/15/2015 | 12-inch PVC | 130-310; 390-430; 510-590 | 0.040 | 8x20 | 20 | 50 |
| CHG-2014-12 | 35.01977 | 119.85007 | 1,729 | 600 | 7/26/2015 | 12-inch PVC | 180-580 | 0.040 | 8x16 | 20 | 50 |
| CHG-2014-13 | 35.02906 | 119.85714 | 1,689 | 390 | 6/30/2015 | 12-inch PVC | 110-370 | 0.040 | 8x20 | 20 | 50 |
| CHG-2014-14 | 35.02783 | 119.86077 | 1,709 | 570 | 6/23/2015 | 12-inch PVC | 150-330; 370-550 | 0.040 | 8x20 | 20 | 50 |
| CHG-2014-15 | 35.01475 | 119.84595 | 1,757 | 790 | 8/13/2015 | 12-inch PVC | 180-280; 300-540; 580-780 | 0.040 | 8x16 | 20 | 80 |

GSE = ground surface elevation

TD = Total well casing depth

Water Quality Analytical Results
North Fork Ranch, Grapevine Capital Partners

| Analyte | CHG-2014-1 | CHG-2014-2 | CHG-2014-3 | CHG-2014-4 | CHG-2014-5 | CHG-2014-6 | CHG-2014-7 | CHG-2014-12 | CHG-2014-13 | CHG-2014-14 | CHG-2014-15 |
|--|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|
| | 1/12/15 | 2/26/15 | 3/20/15 | 1/30/15 | 10/16/15 | 9/28/15 | 7/8/15 | 8/14/15 | 11/6/15 | 7/26/15 | 9/4/15 |
| Calcium (mg/L) | 82 | 63 | 83 | 82 | 53 | 142 | 95 | 35 | 60 | 87 | 60 |
| Magnesium (mg/L) | 28 | 18 | 23 | 32 | 24 | 71 | 45 | 18 | 18 | 14 | 22 |
| Potassium (mg/L) | 3 | 2 | 2 | 1 | 2 | 4 | 4 | 3 | 3 | 3 | 2 |
| Sodium (mg/L) | 34 | 68 | 32 | 25 | 41 | 119 | 118 | 93 | 122 | 454 | 45 |
| Boron (mg/l) | <0.1 | 0.2 | 0.10 | <0.1 | 0.2 | 0.3 | 0.3 | 0.2 | 0.2 | 0.4 | 0.2 |
| Iron (mg/L) | 1.2 | 0.24 | 0.20 | 0.95 | 0.040 | 0.26 | 0.08 | 0.090 | 0.17 | 0.17 | 0.050 |
| Manganese (mg/L) | 0.030 | 0.040 | 0.020 | 0.020 | <0.01 | 0.050 | 0.180 | <0.01 | 0.010 | 0.050 | <0.01 |
| Zinc (mg/L) | 0.020 | <0.02 | 0.040 | <0.02 | <0.02 | <0.02 | 0.05 | 0.14 | <0.02 | <0.02 | 0.020 |
| SAR | 0.8 | 1.9 | 0.8 | 0.6 | 1.2 | 2.0 | 2.5 | 3.2 | 3.5 | 11.9 | 1.3 |
| Total Alkalinity, (as CaCO ₃) (mg/L) | 220 | 200 | 46 | 48 | 180 | 180 | 170 | 120 | 140 | 80 | 180 |
| Carbonate (mg/L) | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Bicarbonate (mg/L) | 260 | 250 | 270 | 290 | 210 | 220 | 210 | 150 | 170 | 90 | 210 |
| Sulfate (mg/L) | 138 | 140 | 125 | 125 | 127 | 600 | 390 | 153 | 252 | 990 | 120 |
| Chloride (mg/L) | 10 | 17 | 10 | 10 | 15 | 80 | 56 | 18 | 35 | 110 | 9 |
| Nitrate (NO ₃) (mg/L) | 3.6 | 2.7 | 2.1 | 3.4 | 8.4 | 12.5 | <0.5 | 9.7 | 13.7 | 29.4 | 4.3 |
| Nitrate (nitrogen) (mg/l) | 0.8 | 0.6 | 0.5 | 0.8 | 1.9 | 2.8 | <0.1 | 2.2 | 3.1 | 6.6 | 1 |
| Fluoride (mg/L) | 0.1 | 0.2 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 0.3 | 0.2 | 0.6 | 0.2 |
| pH (Std. Units) | 7.7 | 7.8 | 7.4 | 7.5 | 7.2 | 7.1 | 7.5 | 7.7 | 7.6 | 7.8 | 7.5 |
| Electric Conductivity (dS/m) | 1.470 | 0.732 | 0.715 | 0.739 | 0.656 | 1.75 | 1.300 | 0.725 | 0.979 | 2.590 | 0.673 |
| Total Dissolved Solids (mg/L) | 559 | 561 | 547 | 569 | 481 | 1250 | 918 | 480 | 674 | 1780 | 472 |

mg/L = milligrams per liter

dS/m = deciSiemens per meter

Shaded cells for concentrations at or exceeding California Secondary Maximum Contaminant Levels for drinking water

Table 3
Groundwater Elevations

North Fork Ranch, Grapevine Capital Partners

| Well | Latitude | Longitude | GSE | Date | DTW | GWE | TD |
|-------------|----------|-----------|------|----------|-------|---------|-----|
| CHG-2014-1 | 35.01233 | 119.84173 | 1712 | 1/12/15 | 1.20 | 1710.80 | 900 |
| | | | | 8/28/15 | 14.02 | 1697.98 | |
| | | | | 11/6/15 | 9.75 | 1702.25 | |
| CHG-2014-2 | 35.00323 | 119.83181 | 1755 | 1/15/15 | 28.32 | 1683.68 | 600 |
| | | | | 2/2/15 | 20.58 | 1734.42 | |
| | | | | 2/19/15 | 35.97 | 1719.03 | |
| | | | | 2/26/15 | 34.20 | 1720.80 | |
| | | | | 3/4/15 | 33.55 | 1721.45 | |
| | | | | 8/28/15 | 43.45 | 1711.55 | |
| CHG-2014-3 | 35.00597 | 119.83601 | 1755 | 1/15/15 | 7.73 | 1747.27 | 450 |
| | | | | 2/2/15 | 9.20 | 1745.80 | |
| | | | | 2/19/15 | 8.29 | 1746.71 | |
| | | | | 3/6/15 | 8.42 | 1746.58 | |
| | | | | 3/10/15 | 8.00 | 1747.00 | |
| | | | | 3/11/15 | 15.75 | 1739.25 | |
| | | | | 3/20/15 | 25.53 | 1729.47 | |
| | | | | 8/28/15 | 29.20 | 1725.80 | |
| CHG-2014-4 | 35.00913 | 119.83959 | 1757 | 1/30/15 | 14.74 | 1742.26 | 620 |
| | | | | 2/2/15 | 16.08 | 1740.92 | |
| | | | | 2/19/15 | 16.50 | 1740.50 | |
| | | | | 8/28/15 | 27.74 | 1729.26 | |
| | | | | 11/6/15 | 27.70 | 1729.30 | |
| CHG-2014-5 | 35.01837 | 119.84697 | 1709 | 8/28/15 | 15.87 | 1693.13 | 720 |
| | | | | 9/8/15 | 15.15 | 1691.85 | |
| | | | | 9/30/15 | 13.71 | 1695.29 | |
| | | | | 10/14/15 | 18.56 | 1690.44 | |
| | | | | 11/6/15 | 17.10 | 1691.90 | |
| CHG-2014-6 | 35.02252 | 119.84979 | 1707 | 7/29/15 | 46.68 | 1660.32 | 380 |
| | | | | 8/28/15 | 46.65 | 1660.35 | |
| | | | | 9/30/15 | 50.86 | 1656.14 | |
| | | | | 11/6/15 | 47.15 | 1659.85 | |
| CHG-2014-7 | 35.02526 | 119.85343 | 1711 | 6/22/15 | 33.80 | 1677.20 | 610 |
| | | | | 6/29/15 | 38.20 | 1672.80 | |
| | | | | 7/7/15 | 37.90 | 1673.10 | |
| | | | | 8/4/15 | 37.37 | 1673.63 | |
| | | | | 8/28/15 | 36.0 | 1675.0 | |
| CHG-2014-12 | 35.01977 | 119.85007 | 1729 | 7/29/15 | 78.00 | 1651.00 | 600 |
| | | | | 8/28/15 | 76.19 | 1652.81 | |
| | | | | 9/30/15 | 74.68 | 1654.32 | |
| | | | | 10/14/15 | 74.48 | 1654.52 | |
| | | | | 11/6/15 | 74.60 | 1654.40 | |
| CHG-2014-13 | 35.02906 | 119.85714 | 1689 | 7/6/15 | 30.60 | 1658.40 | 390 |
| | | | | 8/28/15 | 29.40 | 1659.60 | |
| | | | | 11/6/15 | 32.60 | 1656.40 | |
| CHG-2014-14 | 35.02783 | 119.86077 | 1709 | 6/29/15 | 18.35 | 1690.65 | 570 |
| | | | | 7/6/15 | 18.84 | 1690.16 | |
| | | | | 7/13/15 | 29.50 | 1679.50 | |
| | | | | 8/4/15 | 44.32 | 1664.68 | |
| | | | | 8/28/15 | 30.02 | 1678.98 | |
| CHG-2014-15 | 35.01475 | 119.84595 | 1759 | 11/6/15 | 25.76 | 1683.24 | 790 |
| | | | | 8/28/15 | 67.27 | 1691.73 | |
| | | | | 8/31/15 | 60.90 | 1698.10 | |
| | | | | 9/8/15 | 61.17 | 1697.83 | |
| | | | | 10/14/15 | 58.68 | 1700.32 | |
| | | | | 11/6/15 | 58.75 | 1700.25 | |

GSE = ground surface elevation in feet determined from USGS topographic maps

DTW= depth to water - measured from top of well casing

GWE= groundwater elevation

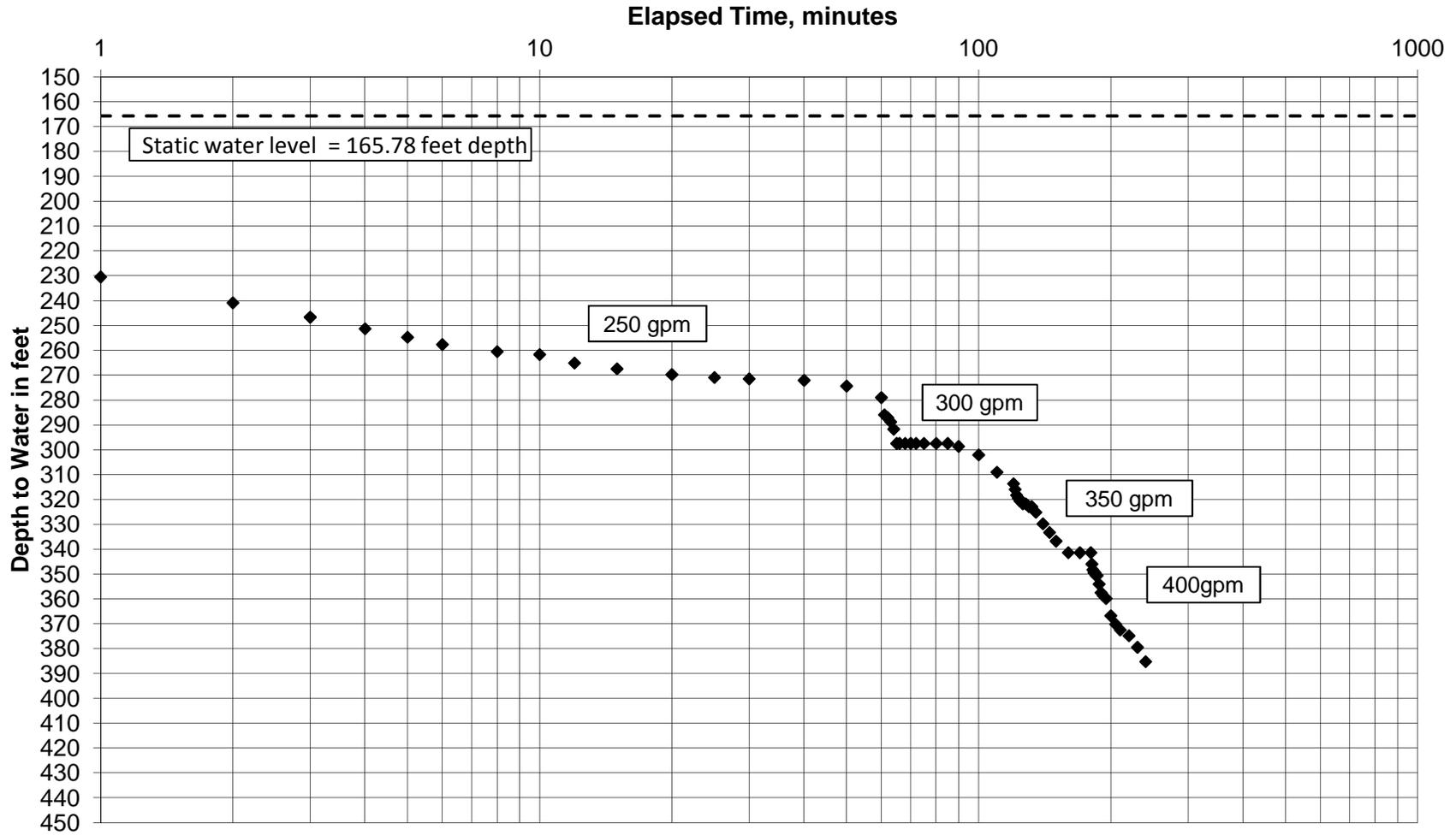
TD= total well depth



Well CHG-2014-1

StepTest (4-hour) North Fork Ranch Well CHG-2014-1
Grapevine Capital Partners
January 9, 2015

Perforated interval:
200 to 240 feet
320 to 880 feet

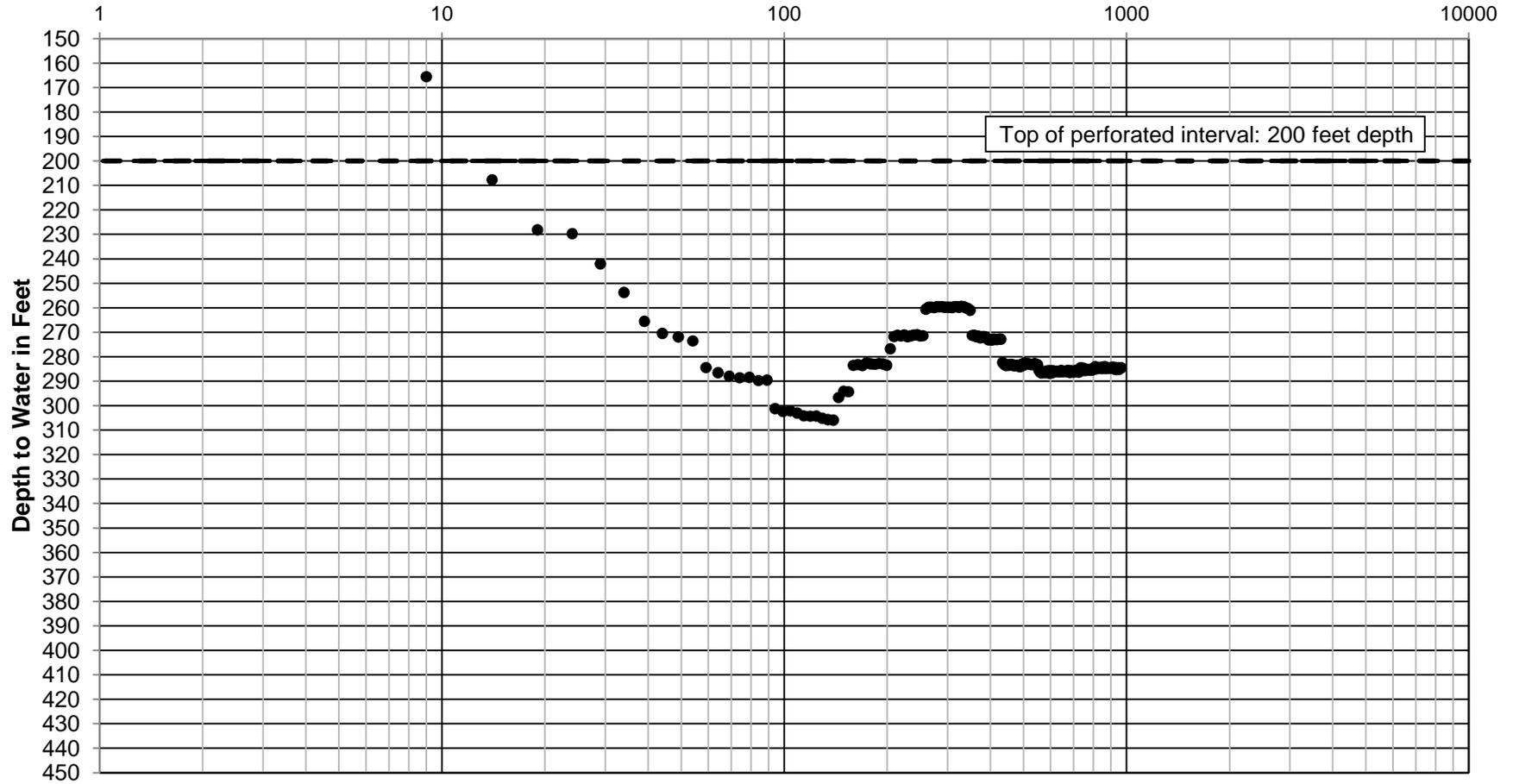


Pumping Test (16 hour) North Fork Ranch Well CHG-2014-1
Grapevine Capital Partners
January 12, and 13, 2015
Transducer Chart

Static water level: 1.2 feet below top casing
Average pumping rate = 325 gpm

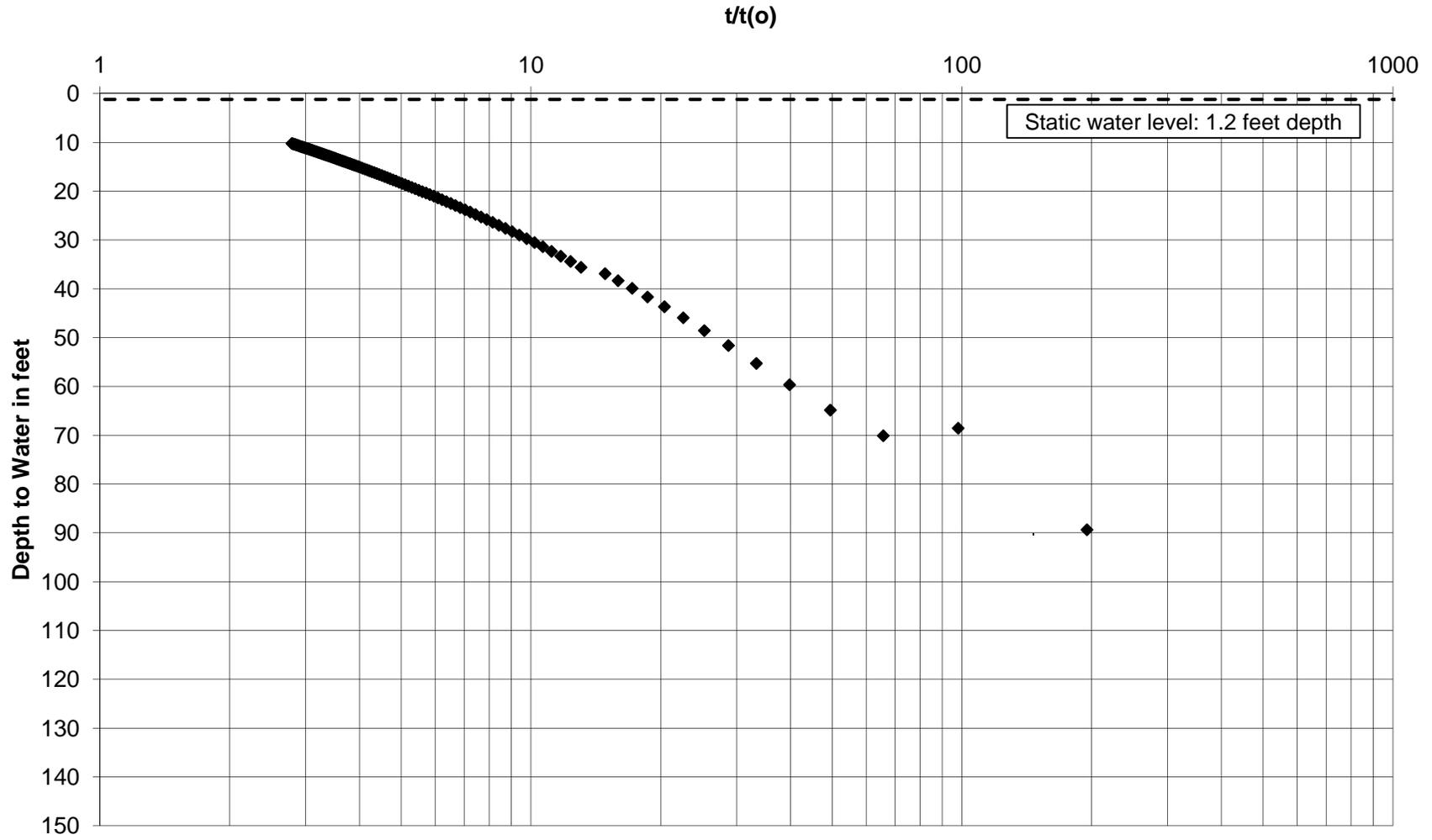
Perforated interval:
200 to 240 feet
320 to 880 feet

Date and Time



Recovery Test North Fork Ranch Well CHG-2014-1
Grapevine Capital Partners
Transducer data
January 13, 2015

Perforated interval:
200 to 240 feet
320 to 880 feet



Pumping Test (Step Test), North Fork Ranch CHG-2014-1

| Day | Time | Elapsed Time | Depth to Water* | Drawdown | Recorded Pumping Rate |
|------------|-------------|---------------------|------------------------|-----------------|------------------------------|
| Mo./Day/Yr | hr:min | minutes | feet | feet | gallons per minute |
| 10/9/14 | 10:35 AM | 0 | 165.78 | 0 | 250 |
| | 10:36 | 1 | 230.46 | 64.68 | 250 |
| | 10:37 | 2 | 240.85 | 75.07 | 250 |
| | 10:38 | 3 | 246.63 | 80.85 | 250 |
| | 10:39 | 4 | 251.25 | 85.47 | 250 |
| | 10:40 | 5 | 254.72 | 88.94 | 250 |
| | 10:41 | 6 | 257.61 | 91.83 | 250 |
| | 10:43 | 8 | 260.49 | 94.71 | 250 |
| | 10:45 | 10 | 261.65 | 95.87 | 250 |
| | 10:47 | 12 | 265.11 | 99.33 | 250 |
| | 10:50 | 15 | 267.42 | 101.64 | 250 |
| | 10:55 | 20 | 269.73 | 103.95 | 250 |
| | 11:00 | 25 | 270.89 | 105.11 | 250 |
| | 11:05 | 30 | 271.46 | 105.68 | 250 |
| | 11:15 | 40 | 272.04 | 106.26 | 250 |
| | 11:25 | 50 | 274.35 | 108.57 | 250 |
| | 11:35 | 60 | 278.97 | 113.19 | 250 |
| | 11:36 | 61 | 285.90 | 120.12 | 300 |
| | 11:37 | 62 | 287.05 | 121.27 | 300 |
| | 11:38 | 63 | 288.79 | 123.01 | 300 |
| | 11:39 | 64 | 291.67 | 125.89 | 300 |
| | 11:40 | 65 | 297.45 | 131.67 | 300 |
| | 11:41 | 66 | 297.45 | 131.67 | 300 |
| | 11:43 | 68 | 297.45 | 131.67 | 300 |
| | 11:45 | 70 | 297.45 | 131.67 | 300 |
| | 11:47 | 72 | 297.45 | 131.67 | 300 |
| | 11:50 | 75 | 297.45 | 131.67 | 300 |
| | 11:55 | 80 | 297.45 | 131.67 | 300 |
| | 12:00 | 85 | 297.45 | 131.67 | 300 |
| | 12:05 | 90 | 298.60 | 132.82 | 300 |
| | 12:15 | 100 | 302.07 | 136.29 | 300 |
| | 12:25 | 110 | 309.00 | 143.22 | 300 |
| | 12:35 | 120 | 313.62 | 147.84 | 300 |
| | 12:36 | 121 | 315.93 | 150.15 | 350 |
| | 12:37 | 122 | 318.24 | 152.46 | 350 |
| | 12:38 | 123 | 319.39 | 153.61 | 350 |
| | 12:39 | 124 | 320.55 | 154.77 | 350 |
| | 12:40 | 125 | 320.55 | 154.77 | 350 |
| | 12:41 | 126 | 321.70 | 155.92 | 350 |
| | 12:43 | 128 | 321.70 | 155.92 | 350 |
| | 12:45 | 130 | 322.86 | 157.08 | 350 |
| | 12:47 | 132 | 322.86 | 157.08 | 350 |
| | 12:50 | 135 | 325.17 | 159.39 | 350 |
| | 12:55 | 140 | 329.79 | 164.01 | 350 |
| | 13:00 | 145 | 333.25 | 167.47 | 350 |
| | 13:05 | 150 | 336.72 | 170.94 | 350 |
| | 13:15 | 160 | 341.34 | 175.56 | 350 |
| | 13:25 | 170 | 341.34 | 175.56 | 350 |
| | 13:35 | 180 | 341.34 | 175.56 | 350 |
| | 13:36 | 181 | 345.96 | 180.18 | 400 |
| | 13:37 | 182 | 348.27 | 182.49 | 400 |
| | 13:38 | 183 | 349.42 | 183.64 | 400 |
| | 13:39 | 184 | 349.42 | 183.64 | 400 |
| | 13:40 | 185 | 350.58 | 184.8 | 400 |
| | 13:41 | 186 | 350.58 | 184.8 | 400 |
| | 13:43 | 188 | 354.04 | 188.26 | 400 |
| | 13:45 | 190 | 357.51 | 191.73 | 400 |
| | 13:47 | 192 | 358.66 | 192.88 | 400 |
| | 13:50 | 195 | 359.82 | 194.04 | 400 |
| | 13:55 | 200 | 366.75 | 200.97 | 400 |
| | 14:00 | 205 | 370.21 | 204.43 | 400 |

Pumping Test (16-hour, manual data), North Fork Ranch Well CHG-2014-1

| Day | Time | Elapsed Time | Depth to Water | Drawdown | Totalizer | Rate |
|------------|-------------|---------------------|-----------------------|-----------------|------------------|--------------|
| Mo./Day/Yr | hr:min | minutes | feet | feet | Acre-Feet | GPM |
| 1/12/15 | 9:21 | 0 | 1.20 | 0.00 | 2.766 | |
| | 9:22 | 1 | 104.89 | 103.69 | | |
| | 9:23 | 2 | 122.2 | 121.00 | | |
| | 9:24 | 3 | 126.94 | 125.74 | | |
| | 9:25 | 4 | 128.44 | 127.24 | | |
| | 9:26 | 5 | 132.56 | 131.36 | | |
| | 9:27 | 6 | 141.89 | 140.69 | | |
| | 9:29 | 8 | 154.25 | 153.05 | | |
| | 9:31 | 10 | 194.29 | 193.09 | 2.7785 | 407.3 |
| | 9:33 | 12 | 210.78 | 209.58 | | |
| | 9:36 | 15 | 221.92 | 220.72 | | |
| | 9:41 | 20 | 225.30 | 224.10 | | |
| | 9:46 | 25 | 231.07 | 229.87 | 2.793 | 315.0 |
| | 9:51 | 30 | 243.10 | 241.90 | 2.8000 | 456.2 |
| | 10:01 | 40 | 265.63 | 264.43 | 2.8105 | 342.1 |
| | 10:11 | 50 | 271.98 | 270.78 | 2.821 | 342.1 |
| | 10:21 | 60 | 284.86 | 283.66 | 2.8335 | 407.3 |
| | 10:36 | 75 | 287.66 | 286.46 | 2.8500 | 358.4 |
| | 10:51 | 90 | 293.48 | 292.28 | 2.8665 | 358.4 |
| | 11:06 | 105 | 302.60 | 301.40 | 2.8836 | 371.5 |
| | 11:21 | 120 | 304.11 | 302.91 | 2.9010 | 378.0 |
| | 11:31 | 130 | 294.15 | 292.95 | | |
| | 12:31 | 190 | 282.51 | 281.31 | 2.9822 | 378.0 |
| | 13:30 | 249 | 282.51 | 281.31 | | |
| | 14:30 | 309 | 259.01 | 281.31 | 3.0855 | 282.9 |
| | 15:30 | 369 | 271.30 | 257.81 | 3.1510 | 355.7 |
| | 16:30 | 429 | 272.50 | 270.10 | 3.2000 | 266.1 |
| | 17:30 | 489 | 283.40 | 271.30 | 3.2610 | 331.3 |
| | 18:30 | 549 | 282.70 | 282.20 | 3.3200 | 320.4 |
| | 19:30 | 609 | 286.40 | 281.50 | 3.3800 | 325.9 |
| | 20:30 | 669 | 286.10 | 285.20 | 3.4420 | 336.7 |
| | 21:30 | 729 | 286.30 | 284.90 | 3.5020 | 325.9 |
| | 22:30 | 789 | 285.10 | 285.10 | 3.5650 | 342.1 |
| | 23:30 | 849 | -- | -- | 3.6200 | 298.7 |
| 1/13/15 | 0:30 | 909 | -- | -- | 3.6750 | 298.7 |
| | 1:30 | 969 | -- | -- | 3.7300 | 298.7 |
| | | | | | Ave GPM | 324.2 |

January 30, 2015
Cleath-Harris Geologists
 Attn: Spencer Harris
 71 Zaca Lane
 Suite 140
 San Luis Obispo, CA 93401
 Description : North Forks CHG1
 Project : North Forks Ranch

Lab ID : CC 1580099-001
 Customer ID : 8-514
 Sampled On : January 12, 2015
 Sampled By : Spencer Harris
 Received On : January 12, 2015
 Matrix : Ground Water

Grape Irrigation Suitability Analysis

| Test Description | Result | | | | Graphical Results Presentation | | | | |
|-------------------------|--------|--------|-------|------------|--|------------------|------------------|--------------------|----------------|
| | mg/L | Meq/L | % Meq | Lbs/AF | Good | Possible Problem | Moderate Problem | Increasing Problem | Severe Problem |
| Cations | | | | | | | | | |
| Calcium | 82 | 4.1 | 51 | 220 | ** | | | | |
| Magnesium | 28 | 2.3 | 29 | 76 | ** | | | | |
| Potassium | 3 | 0.077 | 1 | 8 | ** | | | | |
| Sodium | 34 | 1.5 | 19 | 92 |  | | | | |
| Anions | | | | | | | | | |
| Carbonate | < 10 | 0 | 0 | 0 |  | | | | |
| Bicarbonate | 260 | 4.3 | 57 | 710 | ** | | | | |
| Sulfate | 138 | 2.9 | 38 | 380 | ** | | | | |
| Chloride | 10 | 0.28 | 4 | 27 |  | | | | |
| Nitrate | 3.6 | 0.058 | 1 | 10 |  | | | | |
| Nitrate Nitrogen | 0.8 | | | 2 |  | | | | |
| Fluoride | 0.1 | 0.0053 | 0 | 0.3 |  | | | | |
| Minor Elements | | | | | | | | | |
| Boron | < 0.1 | | | 0.00 |  | | | | |
| Copper | 0.050 | | | 0.14 |  | | | | |
| Iron | 1.2 | | | 3.3 |  | | | | |
| Manganese | 0.030 | | | 0.082 |  | | | | |
| Zinc | 0.020 | | | 0.054 |  | | | | |
| TDS by Summation | 559 | | | 1500 |  | | | | |
| Other | | | | | | | | | |
| pH | 7.7 | | | units |  | | | | |
| E. C. | 1.47 | | | dS/m |  | | | | |
| SAR | 0.8 | | | |  | | | | |
| Crop Suitability | | | | | | | | | |
| No Amendments | Fairly | | Good | |  | | | | |
| With Amendments | Good | | | |  | | | | |
| Amendments | | | | | | | | | |
| Gypsum Requirement | 0.0 | | | Tons/AF | | | | | |
| Sulfuric Acid (98%) | 15 | | | oz/1000Gal | Or 37 oz/1000Gal of urea Sulfuric Acid (15/49). | | | | |
| Leaching Requirement | 10 | | | % | | | | | |

Good  Problem

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

** Used in various calculations; mg/L = Milligrams Per Liter (ppm) meq/L = Milliequivalents Per Liter



January 30, 2015

Cleath-Harris Geologists

Lab ID : CC 1580099-001

Customer ID : 8-514

Description : North Forks CHG1

Micro Irrigation System Plugging Hazard

| Test Description | Result | Graphical Results Presentation | | |
|------------------------|-----------------|--|----------|--------|
| | | Slight | Moderate | Severe |
| Chemical | | | | |
| Manganese | 0.03 mg/L |  | | |
| Iron | 1.2 mg/L |  | | |
| TDS by Summation | 559 mg/L |  | | |
| No Amendments | | | | |
| pH | 7.7 units |  | | |
| Alkalinity (As CaCO3) | 220 mg/L |  | | |
| Total Hardness | 320 mg/L |  | | |
| With Amendments | | | | |
| Alkalinity (As CaCO3) | 44 mg/L |  | | |
| Total Hardness | 44 mg/L |  | | |
| pH | 5.4 - 6.7 units |  | | |

Good  Problem

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

Water Amendments Application Notes:

The Amendments recommended on the previous pages include:

Sulfuric Acid:

These products should be applied as needed to prevent emitter plugging in micro irrigation systems and/or as a soil amendment to adjust soil pH to improve nutrient availability and to facilitate leaching of salts. Please exercise caution when using this material as excesses may be harmful to the system and/or the plants being irrigated. The reported Acid requirement is intended to remove approximately 80 % of the alkalinity. The final pH should range from 5.4 to 6.7. We recommend a field pH determination to confirm that the pH you designate is being achieved. This application is based upon the use of a 98% Sulfuric Acid product. The application of Urea Sulfuric Acid is based upon the use of a product that contains 15% Urea (1.89 lbs Nitrogen), 49% Sulfuric Acid and has a specific gravity of 1.52 at 68 °F.

Guidelines for the above interpretations are sourced from USDA & U.C. Cooperative Extension Service publications. Please contact us if you have any questions.

FRUIT GROWERS LABORATORY, INC.

Scott Bucy

Scott Bucy, Director of Ag. Services

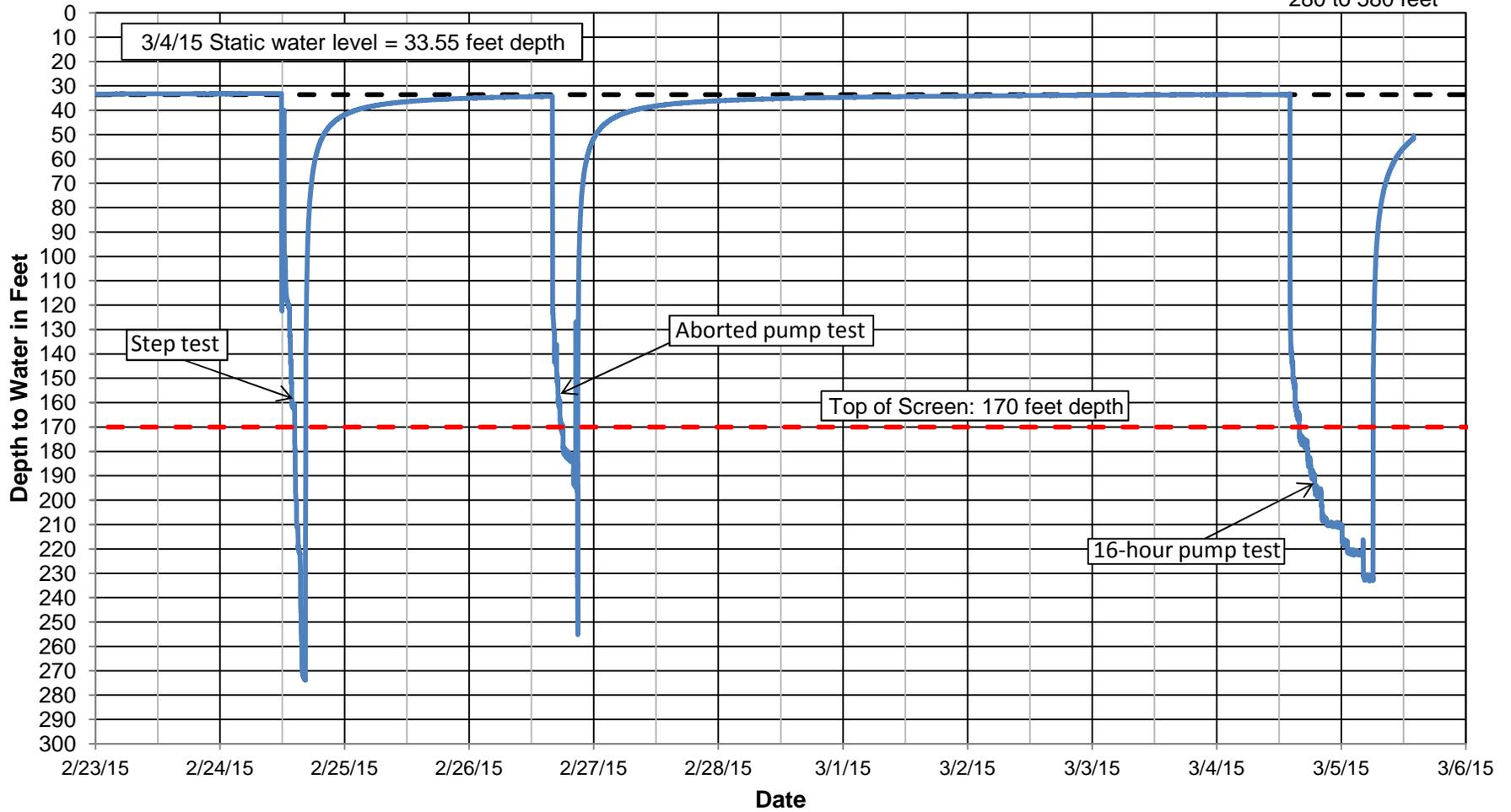
SB1:KDM



Well CHG-2014-2

North Fork Ranch Well CHG-2014-2
Grapevine Capital Partners
Transducer Chart

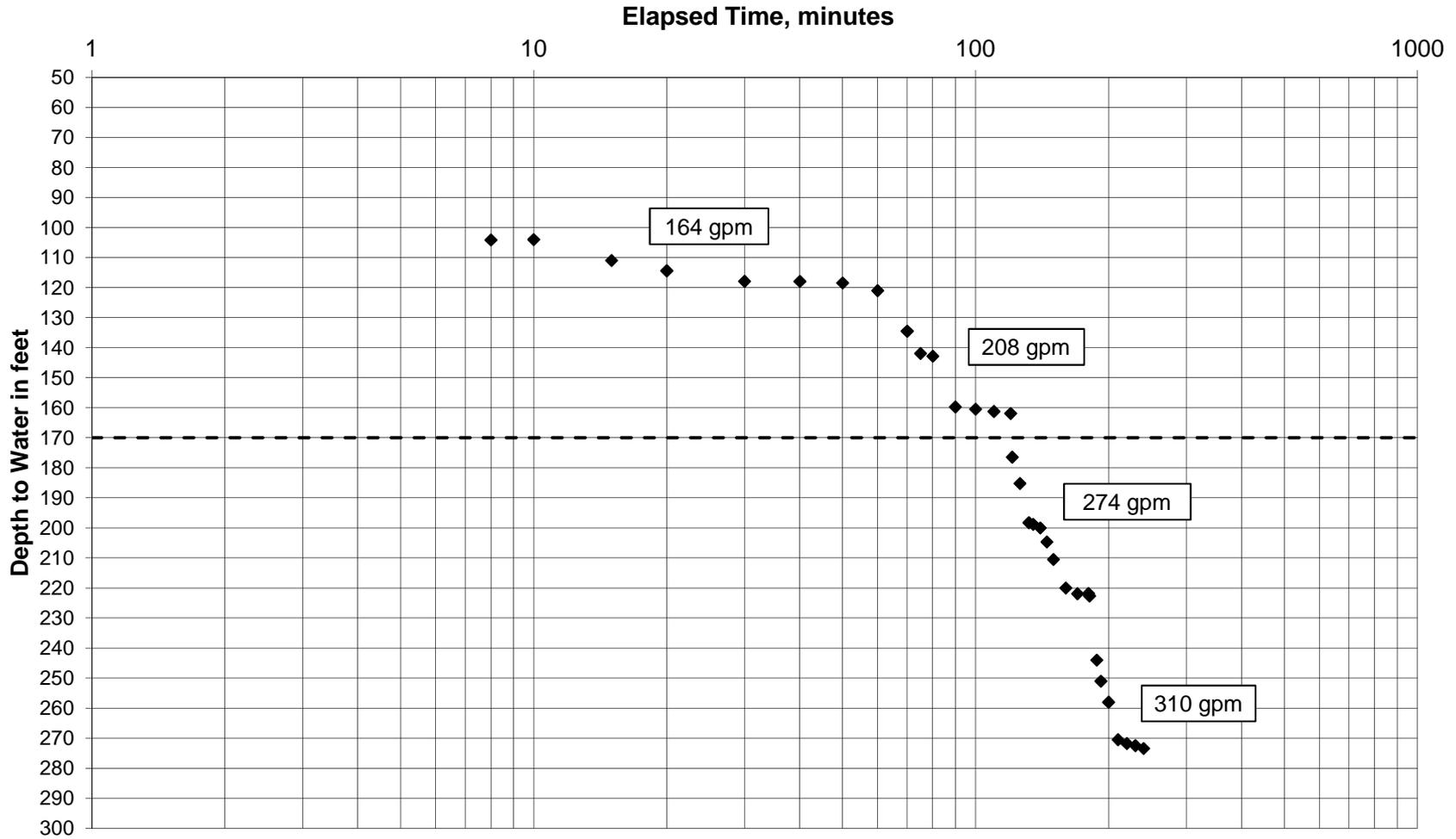
Perforated interval:
170 to 230 feet
280 to 580 feet



StepTest (4-hour) North Fork Ranch Well CHG-2014-2
Grapevine Capital Partners
February 24, 2015

Perforated interval:
170 to 230 feet
280 to 580 feet

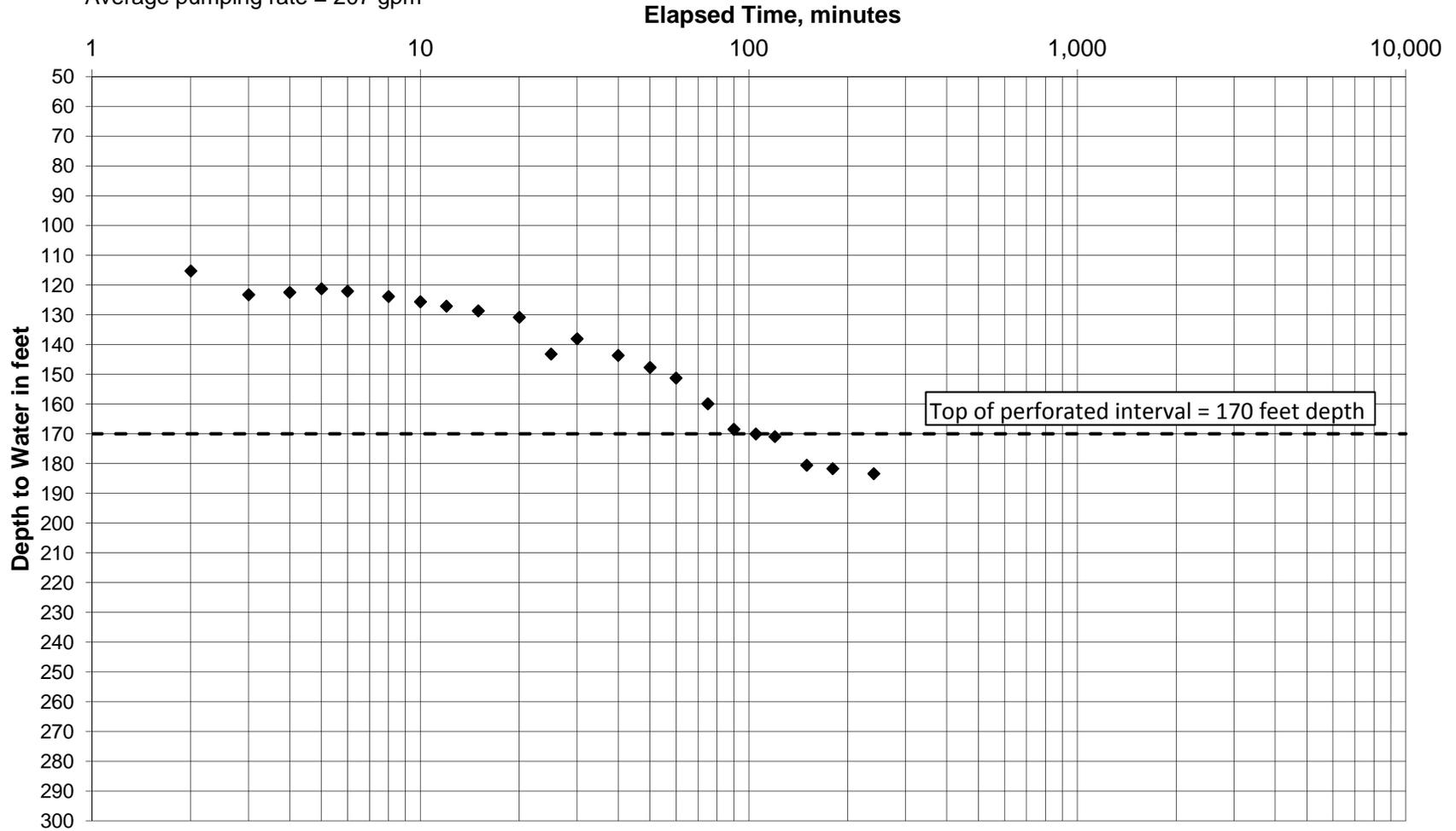
Static water level = 33 feet depth



**Pumping Test (Aborted 16-hour) North Fork Ranch Well CHG-2014-2
Grapevine Capital Partners
February 26, 2015**

Perforated interval:
170 to 230 feet
280 to 580 feet

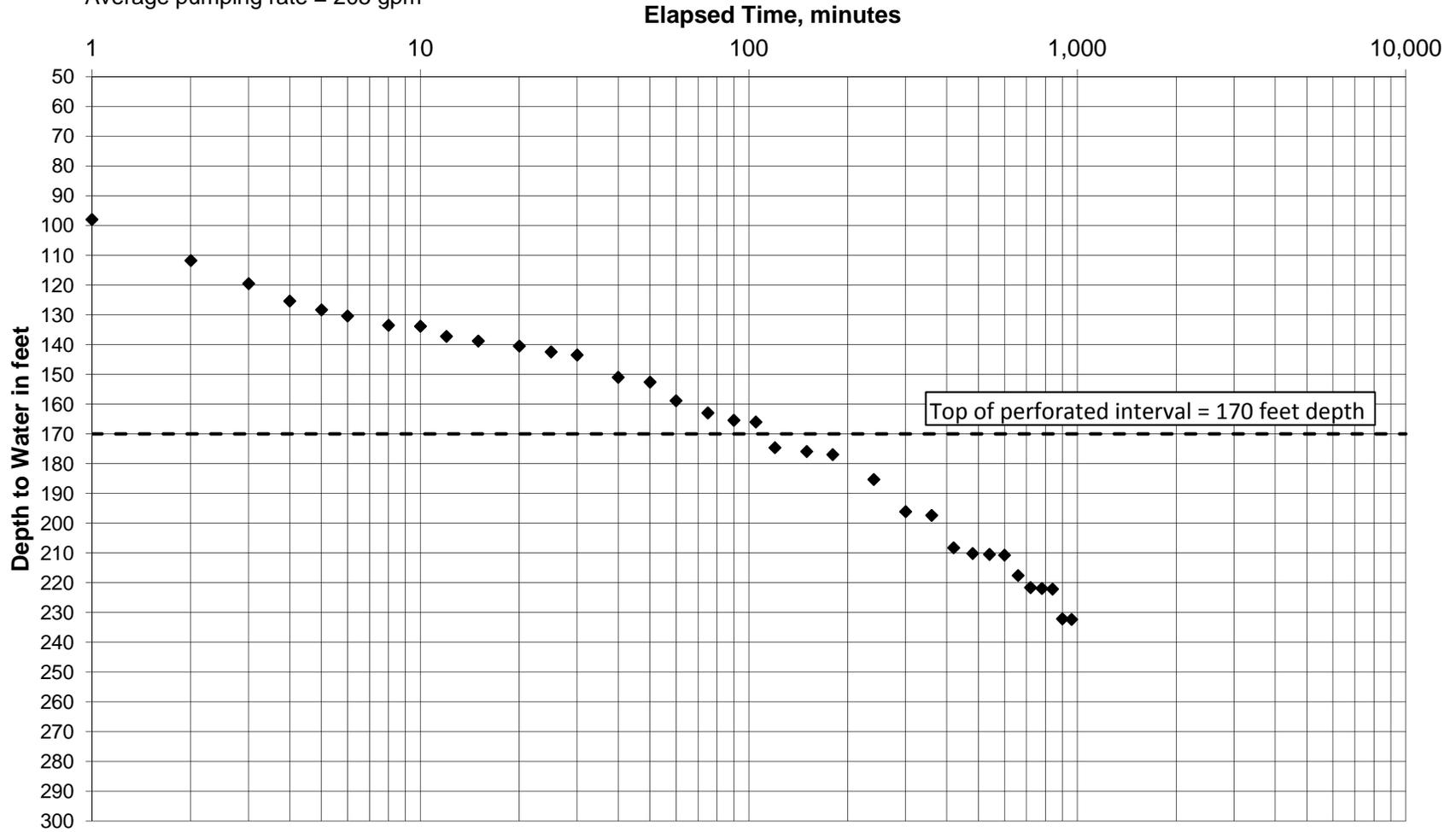
Static Water Level = 34.20 feet below top of casing
Average pumping rate = 207 gpm



**Pumping Test (16-hour) North Fork Ranch Well CHG-2014-2
Grapevine Capital Partners
March 4 to March 5, 2015**

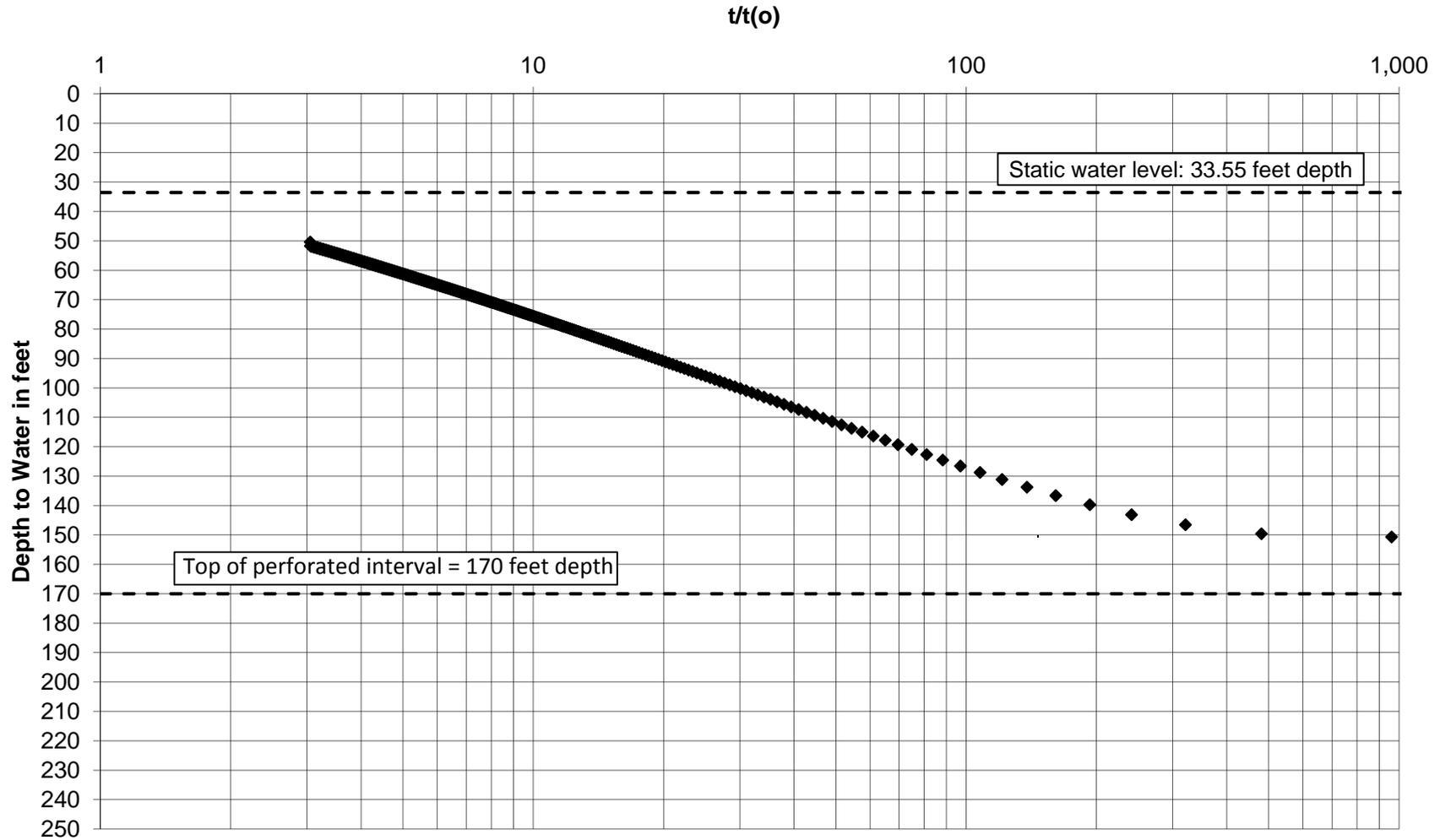
Perforated interval:
170 to 230 feet
280 to 580 feet

Static Water Level = 33.55 feet below top of casing
Average pumping rate = 205 gpm



North Forks Ranch Well CHG-2014-2
Grapevine Capital Partners
Constant Discharge Test Recovery March 5, 2015
Transducer Chart

Perforated interval:
170 to 230 feet
280 to 580 feet



Pumping Test (Step Test), North Fork Ranch CHG-2014-2

| Day | Time | Elapsed Time | Depth to Water* | Drawdown | Recorded Pumping Rate |
|------------|-------------|---------------------|------------------------|-----------------|------------------------------|
| Mo./Day/Yr | hr:min | minutes | feet | feet | gallons per minute |
| 2/24/15 | 12:20 | 0 | 33 | 0 | |
| | 12:28 | 8 | 104.10 | 71.1 | 215 |
| | 12:30 | 10 | 103.95 | 70.95 | |
| | 12:32 | 12 | | | 118 |
| | 12:35 | 15 | 110.90 | 77.9 | 144 |
| | 12:40 | 20 | 114.35 | 81.35 | 181 |
| | 12:50 | 30 | 117.85 | 84.85 | 171 |
| | 13:00 | 40 | 117.90 | 84.9 | 171 |
| | 13:10 | 50 | 118.40 | 85.4 | 155 |
| | 13:20 | 60 | 120.95 | 87.95 | 155 |
| | 13:30 | 70 | 134.45 | 101.45 | 171 |
| | 13:35 | 75 | 141.90 | 108.9 | 217 |
| | 13:40 | 80 | 142.78 | 109.775 | 203 |
| | 13:45 | 85 | | | 203 |
| | 13:50 | 90 | 159.70 | 126.7 | 217 |
| | 14:00 | 100 | 160.45 | 127.45 | 219 |
| | 14:10 | 110 | 161.20 | 128.2 | 217 |
| | 14:20 | 120 | 161.85 | 128.85 | 214 |
| | 14:21 | 121 | 176.40 | 143.4 | 260 |
| | 14:25 | 125 | | | 260 |
| | 14:26 | 126 | 185.20 | 152.2 | |
| | 14:32 | 132 | 198.25 | 165.25 | 271 |
| | 14:35 | 135 | 198.75 | 165.75 | 271 |
| | 14:40 | 140 | 200.00 | 167 | 260 |
| | 14:45 | 145 | 204.65 | 171.65 | |
| | 14:50 | 150 | 210.50 | 177.5 | 296 |
| | 15:00 | 160 | 220.00 | 187 | 325 |
| | 15:10 | 170 | 221.90 | 188.9 | 260 |
| | 15:20 | 180 | 221.85 | 188.85 | 260 |
| | 15:21 | 181 | 222.65 | 189.65 | |
| | 15:24 | 184 | | | 271 |
| | 15:28 | 188 | 244.00 | 211 | 322 |
| | 15:32 | 192 | 251.00 | 218 | |
| | 15:35 | 195 | | | 319 |
| | 15:40 | 200 | 258.00 | 225 | 260 |
| | 15:45 | 205 | | | 325 |

Pumping Test (Aborted Test), North Fork Ranch Well CHG-2014-2

| Day | Time | Elapsed Time | Depth to Water | Drawdown | Totalizer | Rate |
|------------|-------------|---------------------|-----------------------|-----------------|------------------|--------------|
| Mo./Day/Yr | hr:min | minutes | feet | feet | Acre-Feet | GPM |
| 2/26/15 | 16:00 | 0 | 34.20 | 0.00 | 7.6397 | |
| | 16:01 | 1 | | | | |
| | 16:02 | 2 | 115.3 | 81.10 | | |
| | 16:03 | 3 | 123.28 | 89.08 | | |
| | 16:04 | 4 | 122.50 | 88.30 | | |
| | 16:05 | 5 | 121.30 | 87.10 | | |
| | 16:06 | 6 | 122.10 | 87.90 | | |
| | 16:08 | 8 | 123.88 | 89.68 | | |
| | 16:10 | 10 | 125.64 | 91.44 | | |
| | 16:12 | 12 | 127.13 | 92.93 | 7.64875 | 245.7 |
| | 16:15 | 15 | 128.70 | 94.50 | 7.65175 | 195.5 |
| | 16:20 | 20 | 130.86 | 96.66 | | |
| | 16:25 | 25 | 143.20 | 109.00 | 7.6585 | 200.0 |
| | 16:30 | 30 | 138.08 | 103.88 | 7.6610 | 203.7 |
| | 16:40 | 40 | 143.67 | 109.47 | 7.6638 | 182.5 |
| | 16:50 | 50 | 147.70 | 113.50 | 7.67175 | 185.0 |
| | 17:00 | 60 | 151.26 | 117.06 | 7.6780 | 185.1 |
| | 17:15 | 75 | 159.89 | 125.69 | 7.6846 | 195.5 |
| | 17:30 | 90 | 168.48 | 134.28 | 7.6990 | 312.8 |
| | 17:45 | 105 | 170.04 | 135.84 | 7.7084 | 204.2 |
| | 18:00 | 120 | 170.94 | 136.74 | 7.7172 | 204.8 |
| | 18:30 | 150 | 180.55 | 146.35 | 7.7335 | 177.0 |
| | 19:00 | 180 | 181.70 | 147.50 | 7.7520 | 200.9 |
| | 20:00 | 240 | 183.38 | 147.50 | 7.7875 | 199.4 |
| | | | | | Ave GPM | 206.6 |

Pumping Test North Fork Ranch Well CHG-2014-2

| Day | Time | Elapsed Time | Depth to Water | Drawdown | Totalizer | Rate |
|------------|-------------|---------------------|-----------------------|-----------------|------------------|-------------|
| Mo./Day/Yr | hr:min | minutes | feet | feet | Acre-Feet | GPM |
| 3/4/15 | 14:05 | 0 | 33.55 | 0.00 | 7.82375 | |
| | 14:06 | 1 | 98 | 64.45 | | |
| | 14:07 | 2 | 111.8 | 78.25 | | |
| | 14:08 | 3 | 119.55 | 86.00 | | |
| | 14:09 | 4 | 125.39 | 91.84 | | |
| | 14:10 | 5 | 128.35 | 94.80 | | |
| | 14:11 | 6 | 130.40 | 96.85 | | |
| | 14:13 | 8 | 133.53 | 99.98 | | |
| | 14:15 | 10 | 133.85 | 100.30 | 7.8325 | 285.1 |
| | 14:17 | 12 | 137.25 | 103.70 | | |
| | 14:20 | 15 | 138.80 | 105.25 | | |
| | 14:25 | 20 | 140.50 | 106.95 | 7.8375 | 135.8 |
| | 14:30 | 25 | 142.45 | 108.90 | | |
| | 14:35 | 30 | 143.50 | 109.95 | 7.8450 | 203.7 |
| | 14:45 | 40 | 150.99 | 117.44 | 7.85 | 203.7 |
| | 14:55 | 50 | 152.60 | 119.05 | 7.85750 | 203.7 |
| | 15:05 | 60 | 158.85 | 125.30 | 7.8633 | 208.2 |
| | 15:20 | 75 | 162.95 | 129.40 | | |
| | 15:35 | 90 | 165.42 | 131.87 | 7.8825 | 216.3 |
| | 15:50 | 105 | 166.00 | 132.45 | 7.8930 | 228.1 |
| | 16:05 | 120 | 174.63 | 141.08 | | |
| | 16:35 | 150 | 175.90 | 142.35 | 7.8975 | 209.5 |
| | 17:05 | 180 | 176.95 | 143.40 | 7.9400 | |
| | 18:05 | 240 | 185.30 | 151.75 | 7.9775 | 203.7 |
| 19:05 | 300 | 196.10 | 162.55 | 8.015 | 203.7 | |
| 20:05 | 360 | 197.35 | 163.80 | 8.0520 | 200.9 | |
| 21:05 | 420 | 208.25 | 174.70 | 8.0900 | 206.4 | |
| 22:05 | 480 | 210.15 | 176.60 | 8.1275 | 203.7 | |
| 23:05 | 540 | 210.45 | 176.90 | 8.1650 | 203.7 | |
| 3/5/15 | 0:05 | 600 | 210.70 | 177.15 | 8.2020 | 200.9 |
| | 1:05 | 660 | 217.55 | 184.00 | 8.2400 | 206.4 |
| | 2:05 | 720 | 221.59 | 188.04 | 8.2775 | 203.7 |
| | 3:05 | 780 | 221.90 | 188.35 | 8.3150 | 203.7 |
| | 4:05 | 840 | 222.10 | 188.55 | 8.3515 | 198.2 |
| | 5:05 | 900 | 232.10 | 198.55 | 8.3700 | |
| | 6:05 | 960 | 232.30 | 198.75 | 8.42825 | 208.4 |

March 23, 2015
Cleath-Harris Geologists
 Attn: Spencer Harris
 71 Zaca Lane
 Suite 140
 San Luis Obispo, CA 93401
 Description : North Fork Ranch CHG-2014-2
 Project : North Fork Ranch

Lab ID : CC 1580607-001
 Customer ID : 8-514
 Sampled On : February 26, 2015
 Sampled By : Bryce Pfeifle
 Received On : February 27, 2015
 Matrix : Ground Water

General Irrigation Suitability Analysis

| Test Description | Result | | | | Graphical Results Presentation | | | | |
|-------------------------|--------|-------|-------|------------|--|------------------|------------------|--------------------|----------------|
| | mg/L | Meq/L | % Meq | Lbs/AF | Good | Possible Problem | Moderate Problem | Increasing Problem | Severe Problem |
| Cations | | | | | | | | | |
| Calcium | 63 | 3.1 | 41 | 170 | ** | | | | |
| Magnesium | 18 | 1.5 | 19 | 49 | ** | | | | |
| Potassium | 2 | 0.051 | 1 | 5 | ** | | | | |
| Sodium | 68 | 3 | 39 | 180 |  | | | | |
| Anions | | | | | | | | | |
| Carbonate | < 10 | 0 | 0 | 0 |  | | | | |
| Bicarbonate | 250 | 4.1 | 54 | 680 | ** | | | | |
| Sulfate | 140 | 2.9 | 39 | 380 | ** | | | | |
| Chloride | 17 | 0.48 | 6 | 46 |  | | | | |
| Nitrate | 2.7 | 0.044 | 1 | 7 |  | | | | |
| Nitrate Nitrogen | 0.6 | | | 2 |  | | | | |
| Fluoride | 0.2 | 0.011 | 0 | 0.5 |  | | | | |
| Minor Elements | | | | | | | | | |
| Boron | 0.20 | | | 0.54 |  | | | | |
| Copper | < 0.01 | | | 0.00 |  | | | | |
| Iron | 0.24 | | | 0.65 |  | | | | |
| Manganese | 0.040 | | | 0.11 |  | | | | |
| Zinc | < 0.02 | | | 0.00 |  | | | | |
| TDS by Summation | 561 | | | 1500 |  | | | | |
| Other | | | | | | | | | |
| pH | 7.8 | | | units |  | | | | |
| E. C. | 0.732 | | | dS/m |  | | | | |
| SAR | 1.9 | | | |  | | | | |
| Crop Suitability | | | | | | | | | |
| No Amendments | Fair | | | |  | | | | |
| With Amendments | Good | | | |  | | | | |
| Amendments | | | | | | | | | |
| Gypsum Requirement | 0.3 | | | Tons/AF | | | | | |
| Sulfuric Acid (98%) | 14 | | | oz/1000Gal | | | | | |
| Leaching Requirement | 5.5 | | | % | | | | | |

Good  Problem

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

** Used in various calculations; mg/L = Milligrams Per Liter (ppm) meq/L = Milliequivalents Per Liter



March 23, 2015

Cleath-Harris Geologists

Lab ID : CC 1580607-001

Customer ID : 8-514

Description : North Fork Ranch CHG-2014-2

Micro Irrigation System Plugging Hazard

| Test Description | Result | | Graphical Results Presentation | | |
|------------------------|-----------|-------|--------------------------------|----------|--------|
| | | | Slight | Moderate | Severe |
| Chemical | | | | | |
| Manganese | 0.04 | mg/L | | | |
| Iron | 0.24 | mg/L | | | |
| TDS by Summation | 561 | mg/L | | | |
| No Amendments | | | | | |
| pH | 7.8 | units | | | |
| Alkalinity (As CaCO3) | 200 | mg/L | | | |
| Total Hardness | 231 | mg/L | | | |
| With Amendments | | | | | |
| Alkalinity (As CaCO3) | 40 | mg/L | | | |
| Total Hardness | 40 | mg/L | | | |
| pH | 5.4 - 6.7 | units | | | |

Good Problem

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

Water Amendments Application Notes:

The Amendments recommended on the previous pages include:

Gypsum:

This should be applied at least once a year to the irrigated soil surface area. Gypsum can also be applied in smaller quantities in the irrigation water. Apply the smaller (bracketed) amount of gypsum when also applying the recommended amount of Sulfuric Acid and the larger amount when applying only Gypsum.

Sulfuric Acid:

These products should be applied as needed to prevent emitter plugging in micro irrigation systems and/or as a soil amendment to adjust soil pH to improve nutrient availability and to facilitate leaching of salts. Please exercise caution when using this material as excesses may be harmful to the system and/or the plants being irrigated. The reported Acid requirement is intended to remove approximately 80 % of the alkalinity. The final pH should range from 5.4 to 6.7. We recommend a field pH determination to confirm that the pH you designate is being achieved. This application is based upon the use of a 98% Sulfuric Acid product. The application of Urea Sulfuric Acid is based upon the use of a product that contains 15% Urea (1.89 lbs Nitrogen), 49% Sulfuric Acid and has a specific gravity of 1.52 at 68 °F.

Guidelines for the above interpretations are sourced from USDA & U.C. Cooperative Extension Service publications. Please contact us if you have any questions.

FRUIT GROWERS LABORATORY, INC.

Scott Bucy

Scott Bucy, Director of Ag. Services

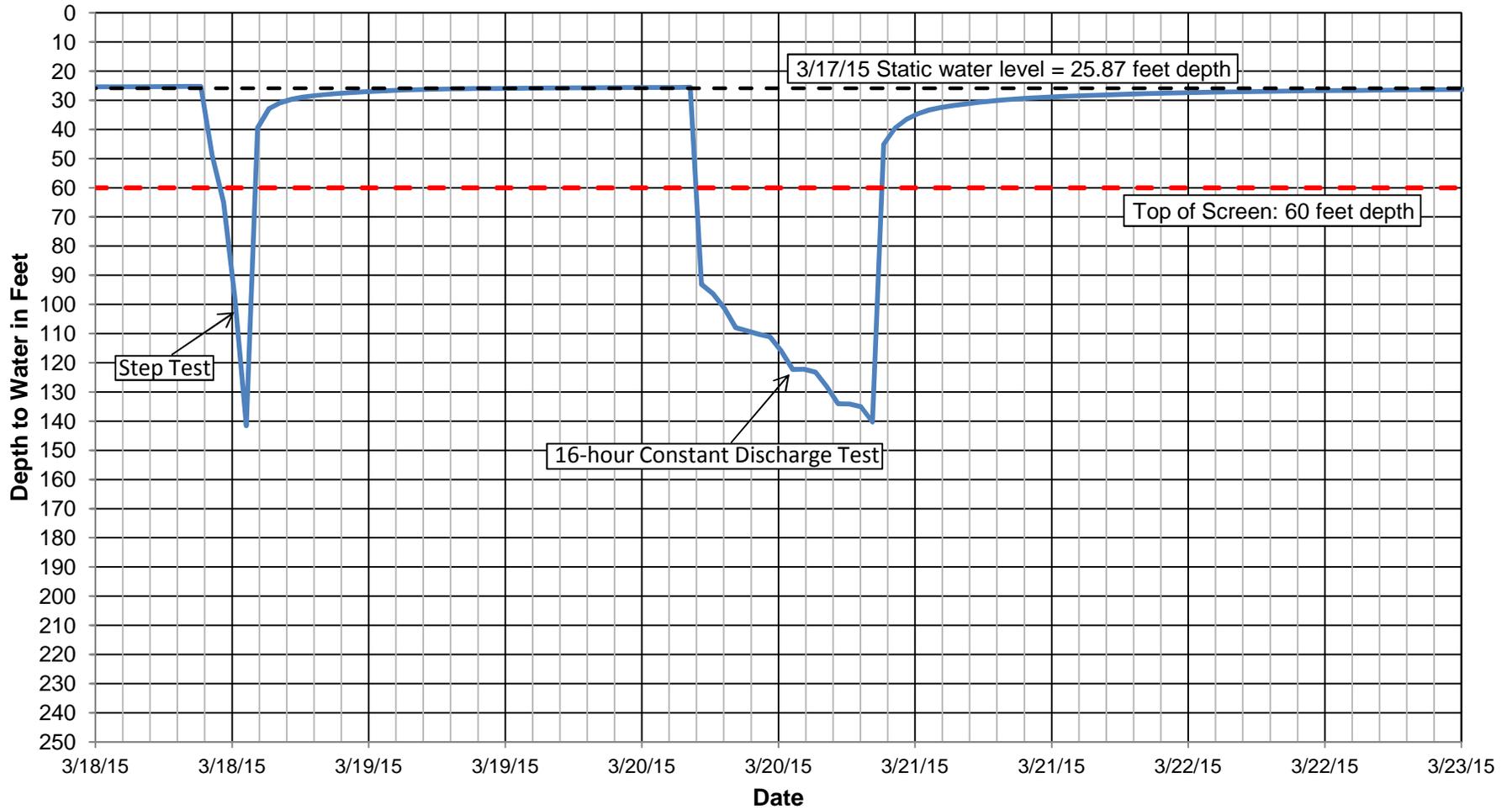
SB1:KDM



Well CHG-2014-3

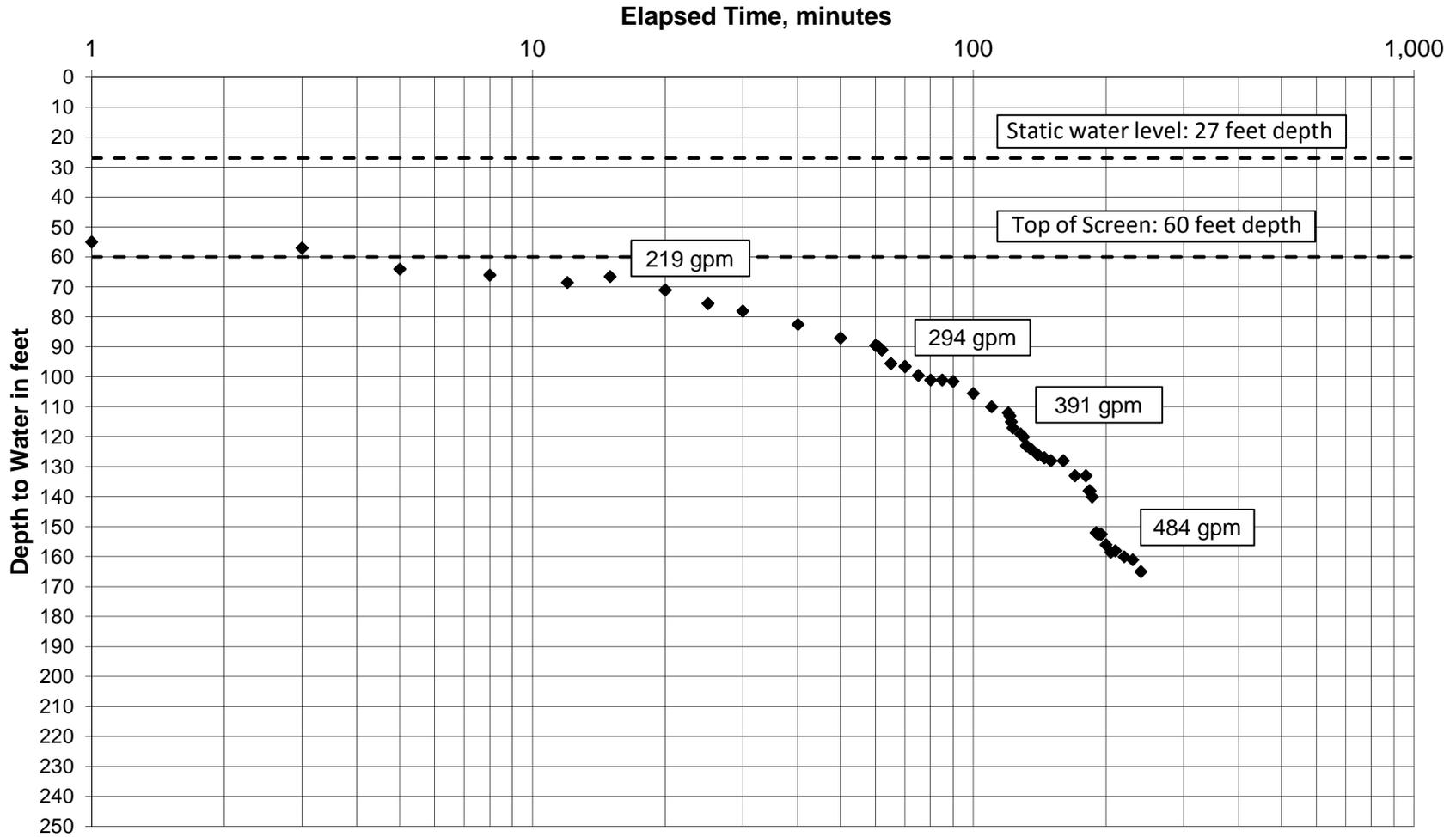
**North Fork Ranch Well CHG-2014-3
Grapevine Capital Partners
Transducer Chart**

Perforated interval:
60 to 120 feet
140 to 180 feet
220 to 250 feet
290 to 430 feet



StepTest (4-hour) North Fork Ranch Well CHG-2014-3
Grapevine Capital Partners
March 18, 2015

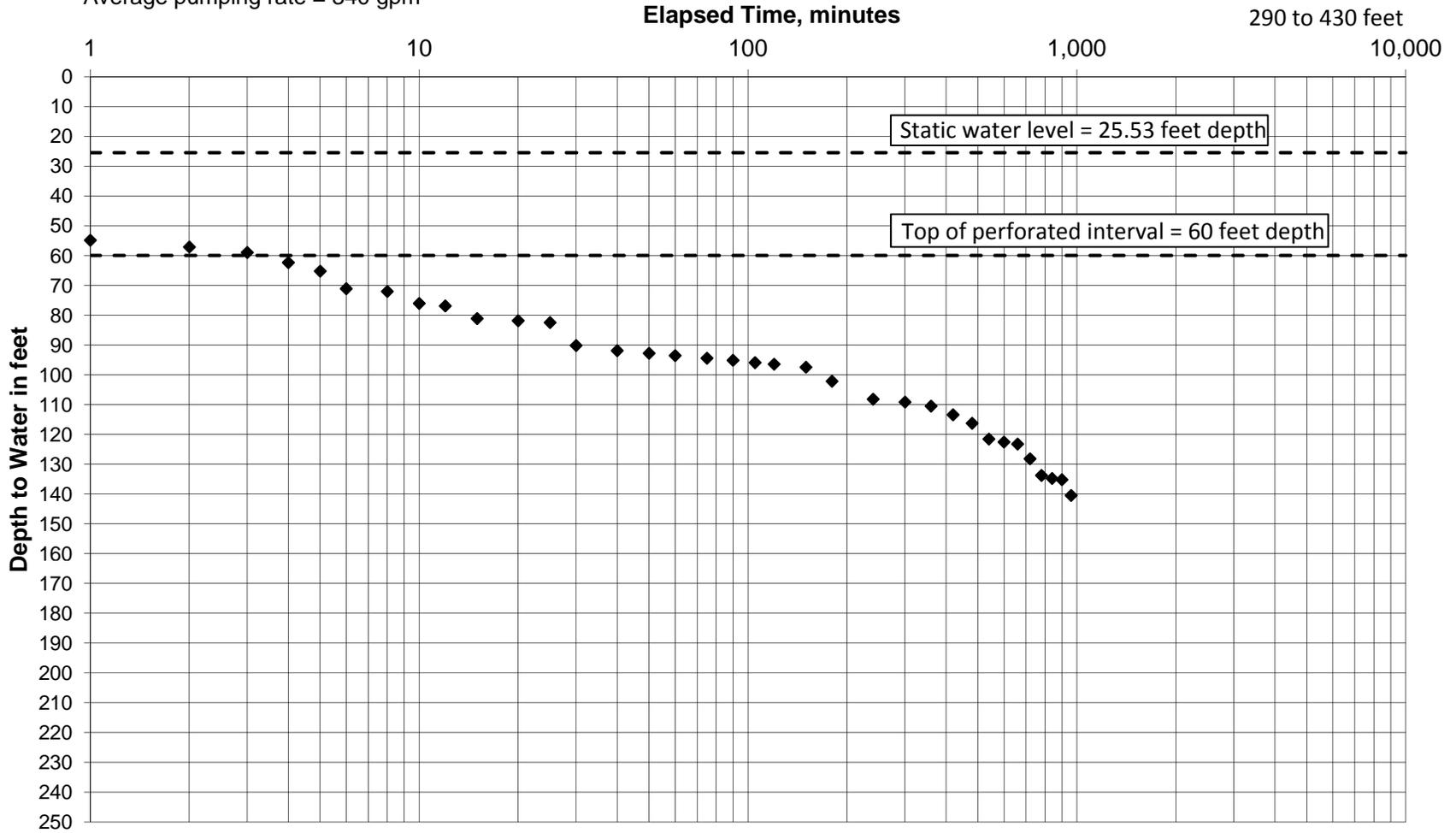
Perforated interval:
60 to 120 feet
140 to 180 feet
220 to 250 feet
290 to 430 feet



Pumping Test (16-hour) North Fork Ranch Well CHG-2014-3
Grapevine Capital Partners
March 20, 2015

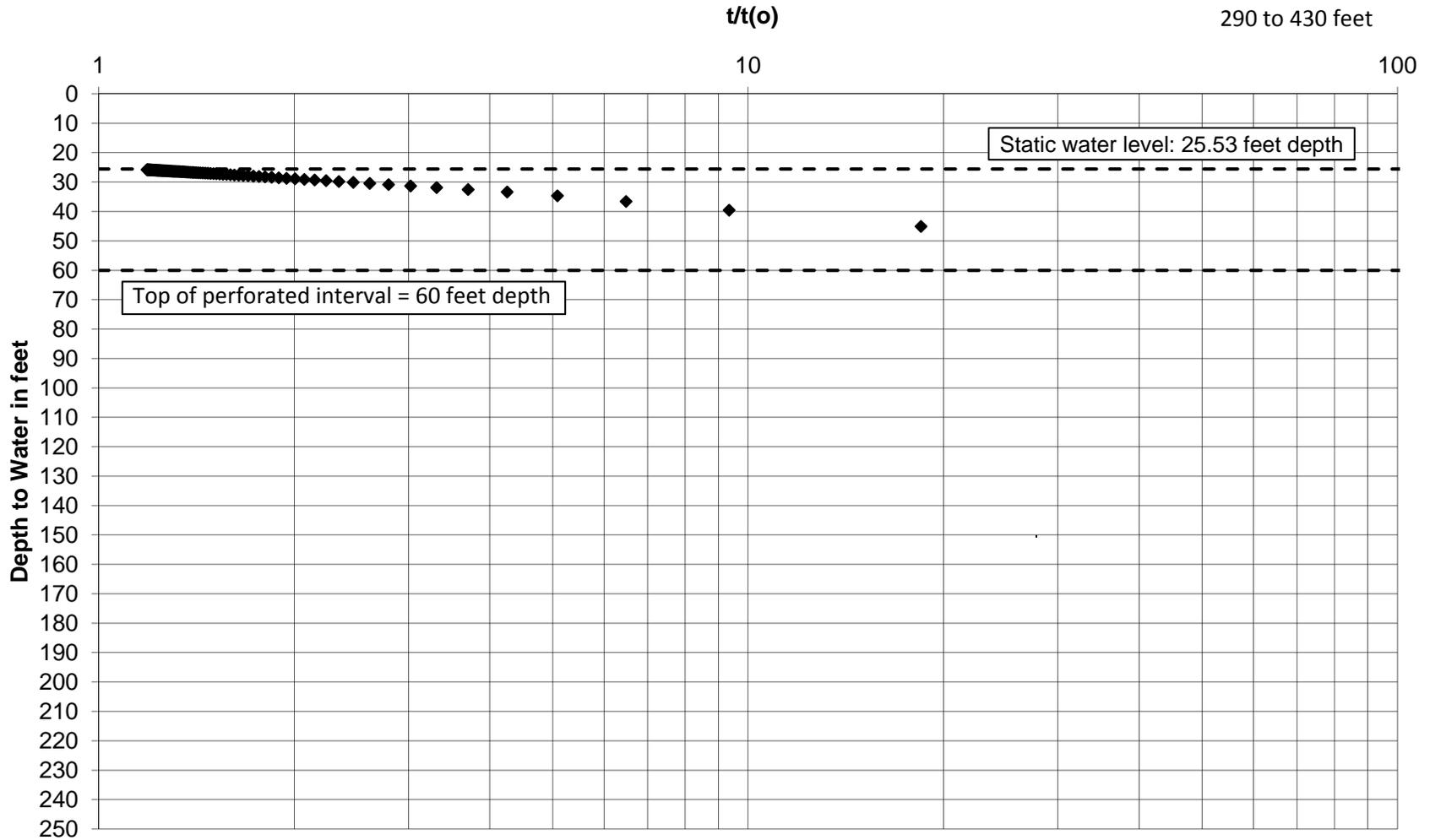
Static Water Level = 25.53 feet below top of casing
Average pumping rate = 340 gpm

Perforated interval:
60 to 120 feet
140 to 180 feet
220 to 250 feet
290 to 430 feet



North Forks Ranch Well CHG-2014-3
Grapevine Capital Partners
Constant Discharge Test Recovery March 20, 2015
Transducer Chart

Perforated interval:
60 to 120 feet
140 to 180 feet
220 to 250 feet
290 to 430 feet



Pumping Test (Step Test), North Fork Ranch CHG-2014-3

| Day | Time | Elapsed Time | Depth to Water* | Drawdown | Recorded Pumping Rate | |
|------------|-------------|---------------------|------------------------|-----------------|------------------------------|-----|
| Mo./Day/Yr | hr:min | minutes | feet | feet | gallons per minute | |
| 3/18/15 | 10:00 | 0 | 27 | 0 | | |
| | 10:01 | 1 | 55 | 28 | | |
| | 10:03 | 3 | 57 | 30 | 325 | |
| | 10:05 | 5 | 64 | 37 | | |
| | 10:08 | 8 | 66 | 39 | 221 | |
| | 10:12 | 12 | 68.5 | 41.5 | | |
| | 10:15 | 15 | 66.5 | 39.5 | 183 | |
| | 10:20 | 20 | 71 | 44 | | |
| | 10:25 | 25 | 75.5 | 48.5 | 181 | |
| | 10:30 | 30 | 78.0 | 48.5 | 219 | |
| | 10:40 | 40 | 82.5 | 51 | 213 | |
| | 10:50 | 50 | 87 | 60 | 212 | |
| | 11:00 | 60 | 89.5 | 62.5 | 199 | 219 |
| | 11:01 | 61 | 90 | 63 | | |
| | 11:02 | 62 | 91 | 64 | | |
| | 11:03 | 63 | | | 276 | |
| | 11:05 | 65 | 95.5 | 68.5 | 280 | |
| | 11:10 | 70 | 96.5 | 69.5 | 290 | |
| | 11:15 | 75 | 99.5 | 72.5 | 301 | |
| | 11:20 | 80 | 101 | 74 | 301 | |
| | 11:25 | 85 | 101 | 74 | | |
| | 11:30 | 90 | 101.5 | 74.5 | 290 | |
| | 11:40 | 100 | 105.5 | 78.5 | 316 | |
| | 11:50 | 110 | 110 | 83 | 293 | |
| | 12:00 | 120 | 112 | 85 | 296 | 294 |
| | 12:01 | 121 | 113 | 86 | | |
| | 12:02 | 122 | 115 | 88 | 325 | |
| | 12:03 | 123 | 117 | 90 | 387 | |
| | 12:05 | 125 | | | 407 | |
| | 12:08 | 128 | 119 | 92 | | |
| | 12:10 | 130 | 120 | 93 | | |
| | 12:12 | 132 | 123 | 96 | 403 | |
| | 12:15 | 135 | 124 | 97 | | |
| | 12:20 | 140 | 126 | 99 | 407 | |
| | 12:25 | 145 | 127 | 100 | | |
| | 12:30 | 150 | 128 | 101 | | |
| | 12:40 | 160 | 128 | 101 | 397 | |
| | 12:50 | 170 | 133 | 106 | 403 | |
| | 13:00 | 180 | 133 | 106 | 401 | 391 |
| | 13:03 | 183 | 138 | 111 | | |
| | 13:04 | 184 | 138 | 111 | 465 | |
| | 13:06 | 186 | 140 | 113 | 434 | |
| | 13:10 | 190 | 152 | 125 | 435 | |
| | 13:12 | 192 | 152.5 | 125.5 | 465 | |
| | 13:15 | 195 | 152.5 | 125.5 | | |
| | 13:20 | 200 | 156 | 129 | 512 | |
| | 13:25 | 205 | 158.5 | 131.5 | 510 | |
| | 13:30 | 210 | 158 | 131 | 509 | |
| | 13:40 | 220 | 160 | 133 | 493 | |
| | 13:50 | 230 | 161 | 134 | 512 | |
| | 14:00 | 240 | 165 | 138 | 507 | 484 |

Pumping Test (16-hour) North Fork Ranch Well CHG-2014-3

| Day | Time | Elapsed Time | Depth to Water | Drawdown | Totalizer | Rate |
|------------|-------------|---------------------|-----------------------|-----------------|------------------|-------------|
| Mo./Day/Yr | hr:min | minutes | feet | feet | Acre-Feet | GPM |
| 3/20/15 | 4:20 | 0 | 25.53 | 0.00 | 9.9709 | |
| | 4:21 | 1 | 54.88 | 29.35 | | |
| | 4:22 | 2 | 57.13 | 31.60 | | |
| | 4:23 | 3 | 58.98 | 33.45 | | |
| | 4:24 | 4 | 62.36 | 36.83 | | |
| | 4:25 | 5 | 65.24 | 39.71 | 9.9765 | 365.0 |
| | 4:26 | 6 | 71.12 | 45.59 | | |
| | 4:28 | 8 | 72.04 | 46.51 | | |
| | 4:30 | 10 | 76.06 | 50.53 | | |
| | 4:32 | 12 | 76.91 | 51.38 | | |
| | 4:35 | 15 | 81.13 | 55.60 | 9.987 | 342.1 |
| | 4:40 | 20 | 81.86 | 56.33 | 9.992 | 325.9 |
| | 4:45 | 25 | 82.47 | 56.94 | | |
| | 4:50 | 30 | 90.18 | 64.65 | | |
| | 5:00 | 40 | 91.90 | 66.37 | 10.0132 | 345.4 |
| | 5:10 | 50 | 92.78 | 67.25 | 10.02400 | 351.9 |
| | 5:20 | 60 | 93.55 | 68.02 | 10.0352 | 365.0 |
| | 5:35 | 75 | 94.43 | 68.90 | | |
| | 5:50 | 90 | 95.13 | 69.60 | 10.0652 | 325.9 |
| | 6:05 | 105 | 95.92 | 70.39 | 10.0800 | 321.5 |
| | 6:20 | 120 | 96.44 | 70.91 | 10.0935 | 293.3 |
| | 6:50 | 150 | 97.45 | 71.92 | | |
| | 7:20 | 180 | 102.15 | 76.62 | 10.1520 | 317.7 |
| | 8:20 | 240 | 108.18 | 82.65 | 10.2160 | 347.6 |
| 9:20 | 300 | 109.15 | 83.62 | 10.277 | 331.3 | |
| 10:20 | 360 | 110.50 | 84.97 | 10.3350 | 315.0 | |
| 11:20 | 420 | 113.41 | 87.88 | | | |
| 12:20 | 480 | 116.25 | 90.72 | 10.4550 | 325.9 | |
| 13:20 | 540 | 121.55 | 96.02 | 10.5155 | 328.6 | |
| 3/20/15 | 14:20 | 600 | 122.55 | 97.02 | 10.5800 | 350.3 |
| | 15:20 | 660 | 123.23 | 97.70 | 10.6432 | 343.2 |
| | 16:20 | 720 | 128.17 | 102.64 | 10.7050 | 335.6 |
| | 17:20 | 780 | 133.75 | 108.22 | 10.7730 | 369.3 |
| | 18:20 | 840 | 134.76 | 109.23 | 10.8400 | 363.9 |
| | 19:20 | 900 | 135.18 | 109.65 | 10.9050 | 353.0 |
| | 20:20 | 960 | 140.45 | 114.92 | 10.97250 | 366.6 |

340 ave

April 1, 2015
Cleath-Harris Geologists
 Attn: Spencer Harris
 71 Zaca Lane
 Suite 140
 San Luis Obispo, CA 93401
 Description : CHG-2014-3
 Project : North Fork Ranch

Lab ID : CC 1580833-001
 Customer ID : 8-514
 Sampled On : March 20, 2015
 Sampled By : Spencer B. Harris, J
 Received On : March 20, 2015
 Matrix : Ground Water

Grape Irrigation Suitability Analysis

| Test Description | Result | | | | Graphical Results Presentation | | | | |
|-------------------------|--------|--------|-------|------------|---|------------------|------------------|--------------------|---|
| | mg/L | Meq/L | % Meq | Lbs/AF | Good | Possible Problem | Moderate Problem | Increasing Problem | Severe Problem |
| Cations | | | | | | | | | |
| Calcium | 83 | 4.1 | 55 | 230 | ** | | | | |
| Magnesium | 23 | 1.9 | 25 | 63 | ** | | | | |
| Potassium | 2 | 0.051 | 1 | 5 | ** | | | | |
| Sodium | 32 | 1.4 | 19 | 87 |  | | | | |
| Anions | | | | | | | | | |
| Carbonate | < 10 | 0 | 0 | 0 |  | | | | |
| Bicarbonate | 270 | 4.4 | 60 | 730 | ** | | | | |
| Sulfate | 125 | 2.6 | 35 | 340 | ** | | | | |
| Chloride | 10 | 0.28 | 4 | 27 |  | | | | |
| Nitrate | 2.1 | 0.034 | 0 | 6 |  | | | | |
| Nitrate Nitrogen | 0.5 | | | 1 |  | | | | |
| Fluoride | 0.1 | 0.0053 | 0 | 0.3 |  | | | | |
| Minor Elements | | | | | | | | | |
| Boron | 0.10 | | | 0.27 |  | | | | |
| Copper | 0.010 | | | 0.027 |  | | | | |
| Iron | 0.20 | | | 0.54 |  | | | | |
| Manganese | 0.020 | | | 0.054 |  | | | | |
| Zinc | 0.040 | | | 0.11 |  | | | | |
| TDS by Summation | 547 | | | 1500 |  | | | | |
| Other | | | | | | | | | |
| pH | 7.4 | | | units |  | | | | |
| E. C. | 0.715 | | | dS/m |  | | | | |
| SAR | 0.8 | | | |  | | | | |
| Crop Suitability | | | | | | | | | |
| No Amendments | Good | | | |  | | | | |
| With Amendments | Good | | | |  | | | | |
| Amendments | | | | | | | | | |
| Gypsum Requirement | 0.0 | | | Tons/AF | | | | | |
| Sulfuric Acid (98%) | 16 | | | oz/1000Gal | | | | | Or 39 oz/1000Gal of urea Sulfuric Acid (15/49). |
| Leaching Requirement | 4.7 | | | % | | | | | |

Good  Problem

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

** Used in various calculations; mg/L = Milligrams Per Liter (ppm) meq/L = Milliequivalents Per Liter



April 1, 2015

Cleath-Harris Geologists

Lab ID : CC 1580833-001

Customer ID : 8-514

Description : CHG-2014-3

Micro Irrigation System Plugging Hazard

| Test Description | Result | Graphical Results Presentation | | |
|------------------------|-----------------|--|----------|--------|
| | | Slight | Moderate | Severe |
| Chemical | | | | |
| Manganese | 0.02 mg/L |  | | |
| Iron | 0.2 mg/L |  | | |
| TDS by Summation | 547 mg/L |  | | |
| No Amendments | | | | |
| pH | 7.4 units |  | | |
| Alkalinity (As CaCO3) | 230 mg/L |  | | |
| Total Hardness | 302 mg/L |  | | |
| With Amendments | | | | |
| Alkalinity (As CaCO3) | 46 mg/L |  | | |
| Total Hardness | 46 mg/L |  | | |
| pH | 5.4 - 6.7 units |  | | |

Good  Problem

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

Water Amendments Application Notes:

The Amendments recommended on the previous pages include:

Sulfuric Acid:

These products should be applied as needed to prevent emitter plugging in micro irrigation systems and/or as a soil amendment to adjust soil pH to improve nutrient availability and to facilitate leaching of salts. Please exercise caution when using this material as excesses may be harmful to the system and/or the plants being irrigated. The reported Acid requirement is intended to remove approximately 80 % of the alkalinity. The final pH should range from 5.4 to 6.7. We recommend a field pH determination to confirm that the pH you designate is being achieved. This application is based upon the use of a 98% Sulfuric Acid product. The application of Urea Sulfuric Acid is based upon the use of a product that contains 15% Urea (1.89 lbs Nitrogen), 49% Sulfuric Acid and has a specific gravity of 1.52 at 68 °F.

Guidelines for the above interpretations are sourced from USDA & U.C. Cooperative Extension Service publications. Please contact us if you have any questions.

FRUIT GROWERS LABORATORY, INC.

Scott Bucy

Scott Bucy, Director of Ag. Services

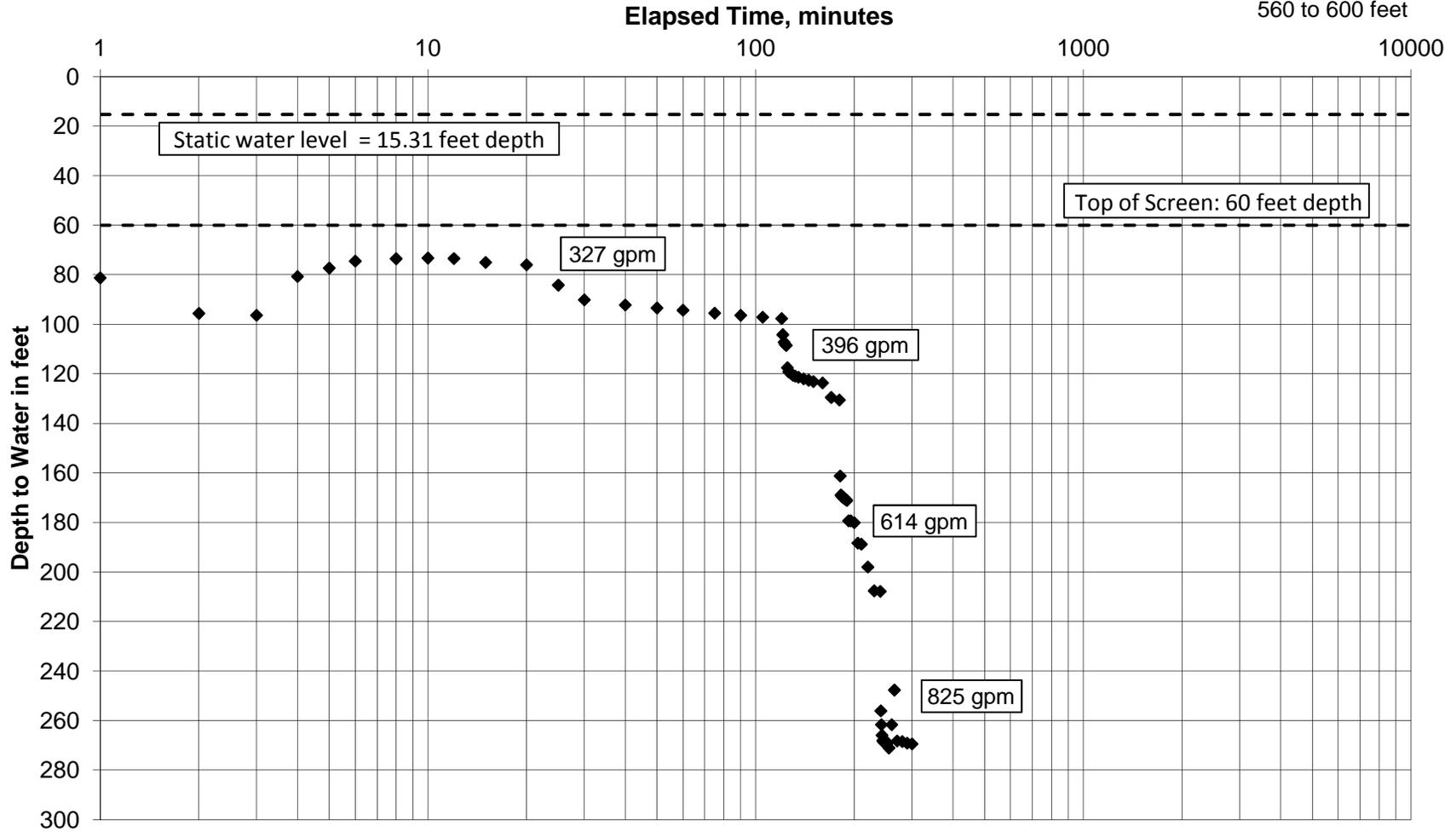
SB1:KDM



Well CHG-2014-4

StepTest (5-hour) North Fork Ranch, Well CHG-2014-4
Grapevine Capital Partners
January 28, 2015

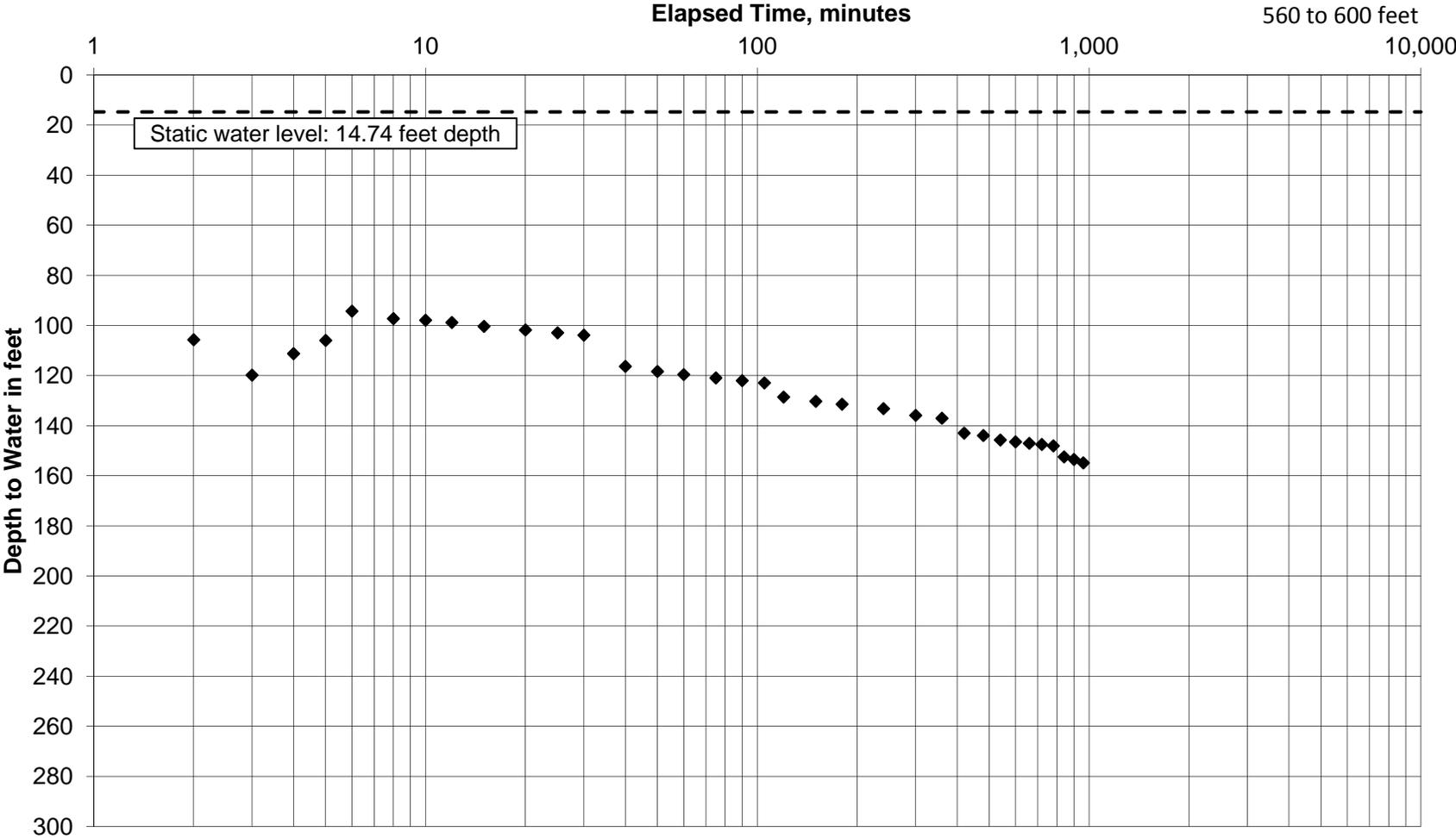
Perforated interval:
60 to 100 feet
200 to 260 feet
300 to 500 feet
560 to 600 feet



Pumping Test (16-hour) North Fork Ranch CHG-2014-4
Grapevine Capital Partners
January 30 to 31, 2015

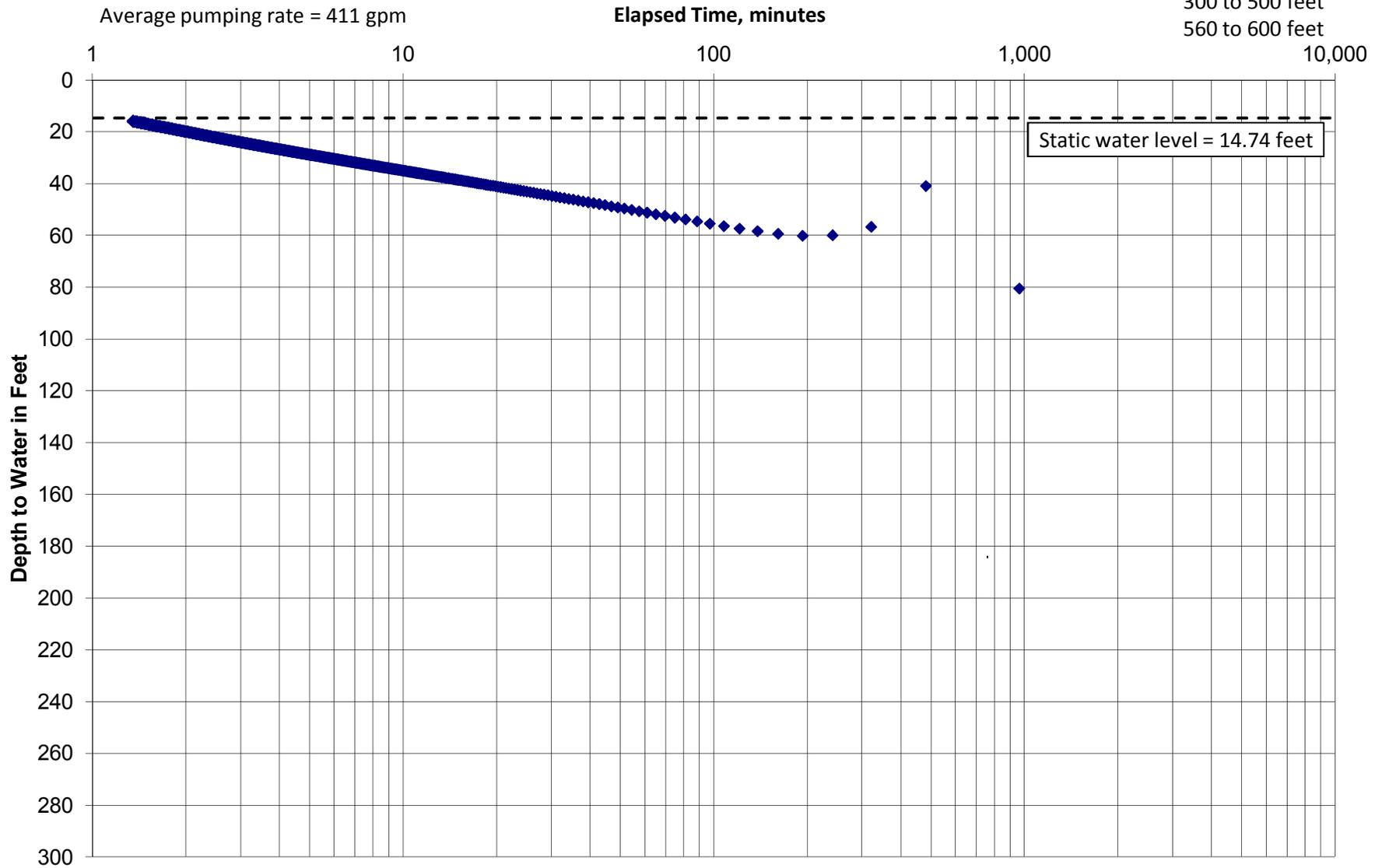
Perforated interval:
60 to 100 feet
200 to 260 feet
300 to 500 feet
560 to 600 feet

Average pumping rate = 411 gpm



**Well Recovery - North Fork Ranch CHG-2014-4
Transducer Plot
Grapevine Capital Partners
January 31 to February 2, 2015**

Perforated interval:
60 to 100 feet
200 to 260 feet
300 to 500 feet
560 to 600 feet



Pumping Test (Step Test), CHG-2014-4

| Day | Time | Elapsed Time | Depth to Water* | Drawdown | Recorded Pumping Rate | Totalizer | Totalizer | Avg flow |
|------------|--------|--------------|-----------------|----------|-----------------------|-----------|-----------|----------|
| Mo./Day/Yr | hr:min | minutes | feet | feet | gallons per minute | Gal | AF | gpm |
| 1/28/15 | 8:30 | 0 | 15.31 | 0 | | 1,688,462 | 5.1817 | |
| | 8:31 | 1 | 81.22 | 65.91 | 327 | | | |
| | 8:32 | 2 | 95.56 | 80.25 | | | | |
| | 8:33 | 3 | 96.34 | 81.03 | | | | |
| | 8:34 | 4 | 80.67 | 65.36 | | | | |
| | 8:35 | 5 | 77.25 | 61.94 | | | | |
| | 8:36 | 6 | 74.46 | 59.15 | | | | |
| | 8:38 | 8 | 73.49 | 58.18 | | | | |
| | 8:40 | 10 | 73.24 | 57.93 | | | | |
| | 8:42 | 12 | 73.40 | 58.09 | | | | |
| | 8:45 | 15 | 75.00 | 59.69 | | | | |
| | 8:50 | 20 | 75.93 | 60.62 | | | | |
| | 8:55 | 25 | 84.13 | 68.82 | | | | |
| | 9:00 | 30 | 90.11 | 74.8 | | | | |
| | 9:03 | 33 | | | | 1,699,965 | 5.217 | 349 |
| | 9:10 | 40 | 92.21 | 76.9 | | | | |
| | 9:20 | 50 | 93.39 | 78.08 | | | | |
| | 9:30 | 60 | 94.31 | 79.00 | | 1,708,763 | 5.244 | 326 |
| | 9:45 | 75 | 95.46 | 80.15 | | | | |
| | 10:00 | 90 | 96.37 | 81.06 | | 1,718,766 | 5.2747 | 333 |
| 10:15 | 105 | 97.10 | 81.79 | | | | | |
| 10:30 | 120 | 97.67 | 82.36 | | 1,727,662 | 5.302 | 297 | |
| 10:31 | 121 | 104.18 | 88.87 | 396 | | | | |
| 10:32 | 122 | 107.20 | 91.89 | | | | | |
| 10:33 | 123 | 108.09 | 92.78 | | | | | |
| 10:34 | 124 | 108.53 | 93.22 | | | | | |
| 10:35 | 125 | 117.52 | 102.21 | | | | | |
| 10:36 | 126 | 119.16 | 103.85 | | | | | |
| 10:38 | 128 | 119.84 | 104.53 | | | | | |
| 10:40 | 130 | 120.53 | 105.22 | | | | | |
| 10:42 | 132 | 120.90 | 105.59 | | | | | |
| 10:45 | 135 | 121.34 | 106.03 | | | | | |
| 10:50 | 140 | 121.99 | 106.68 | | | | | |
| 10:55 | 145 | 122.56 | 107.25 | | | | | |
| 11:00 | 150 | 123.05 | 107.74 | | 1,739,718 | 5.339 | 402 | |
| 11:10 | 160 | 123.63 | 108.32 | | | | | |
| 11:20 | 170 | 129.50 | 114.19 | | | | | |
| 11:30 | 180 | 130.55 | 115.24 | | 1,751,417 | 5.3749 | 390 | |
| 11:31 | 181 | 161.19 | 145.88 | 614 | | | | |
| 11:32 | 182 | 168.90 | 153.59 | | | | | |
| 11:33 | 183 | 169.31 | 154 | | | | | |
| 11:34 | 184 | 169.64 | 154.33 | | | | | |
| 11:35 | 185 | 169.95 | 154.64 | | | | 546 | |
| 11:36 | 186 | 170.01 | 154.7 | | | | | |
| 11:38 | 188 | 170.69 | 155.38 | | | | | |
| 11:40 | 190 | 171.10 | 155.79 | | | | | |
| 11:42 | 192 | 179.33 | 164.02 | | | | | |
| 11:45 | 195 | 179.35 | 164.04 | | 1,759,921 | 5.401 | 567 | |
| 11:50 | 200 | 180.05 | 164.74 | | | | | |
| 11:55 | 205 | 188.33 | 173.02 | | | | | |
| 11:56 | 206 | | | | 1,766,438 | 5.421 | 592 | |
| 12:00 | 210 | 188.78 | 173.47 | | | | | |
| 12:10 | 220 | 197.98 | 182.67 | | | | | |
| 12:13 | 223 | | | | 1,777,517 | 5.455 | 652 | |
| 12:20 | 230 | 207.60 | 192.29 | | | | | |
| 12:30 | 240 | 207.83 | 192.52 | | 1,788,270 | 5.488 | 633 | |
| 12:31 | 241 | 256.08 | 240.77 | 825 | | | | |
| 12:32 | 242 | 261.61 | 246.30 | | | | | |
| 12:33 | 243 | 265.91 | 250.60 | | | | 880 | |
| 12:34 | 244 | 268.08 | 252.77 | | | | | |
| 12:35 | 245 | 268.23 | 252.92 | | | | | |
| 12:36 | 246 | 268.69 | 253.38 | | | | | |
| 12:38 | 248 | 268.55 | 253.24 | | | | | |
| 12:40 | 250 | 268.4 | 253.09 | | | | 931 | |
| 12:42 | 252 | 269.05 | 253.74 | | | | | |
| 12:45 | 255 | 271.01 | 255.70 | | | | 857 | |
| 12:50 | 260 | 261.60 | 246.29 | | | | | |
| 12:55 | 265 | 247.65 | 232.34 | | | | | |
| 13:00 | 270 | 268.20 | 252.89 | | | | 814 | |
| 13:10 | 280 | 268.43 | 253.12 | | | | | |
| 13:20 | 290 | 269.10 | 253.79 | | | | | |
| 13:30 | 300 | 269.41 | 254.10 | | 1,837,800 | 5.64 | 825 | |

Pumping Test (16-hour), North Fork Ranch Well CHG-2014-4

| Day | Time | Elapsed Time | Depth to Water | Drawdown | Totalizer | Rate | |
|------------|-------------|---------------------|-----------------------|-----------------|------------------|-------------|----------------|
| Mo./Day/Yr | hr:min | minutes | feet | feet | Acre-Feet | GPM | |
| 1/30/15 | 20:45 | 0 | 14.74 | 0.00 | 5.648 | | |
| | 20:47 | 2 | 105.67 | 90.93 | | | |
| | 20:48 | 3 | 119.79 | 105.05 | | | |
| | 20:49 | 4 | 111.22 | 96.48 | | | |
| | 20:50 | 5 | 105.95 | 91.21 | | 543 | |
| | 20:51 | 6 | 94.26 | 79.52 | | | |
| | 20:53 | 8 | 97.25 | 82.51 | | | |
| | 20:55 | 10 | 97.88 | 83.14 | | 407 | |
| | 20:57 | 12 | 98.78 | 84.04 | | | |
| | 21:00 | 15 | 100.33 | 85.59 | | | |
| | 21:05 | 20 | 101.78 | 87.04 | | 407 | |
| | 21:10 | 25 | 102.90 | 88.16 | | | |
| | 21:15 | 30 | 103.85 | 89.11 | | 389 | |
| | 21:25 | 40 | 116.31 | 101.57 | | 434 | |
| | 21:35 | 50 | 118.34 | 103.60 | | 407 | |
| | 21:45 | 60 | 119.57 | 104.83 | | 434 | |
| | 22:00 | 75 | 120.92 | 106.18 | | 412 | |
| | 22:15 | 90 | 121.99 | 107.25 | | | |
| | 22:30 | 105 | 122.91 | 108.17 | | 397 | |
| | 22:45 | 120 | 128.55 | 113.81 | | 412 | |
| | 23:15 | 150 | 130.25 | 115.51 | | 406 | |
| | 23:45 | 180 | 131.40 | 116.66 | | | |
| | 0:45 | 240 | 133.18 | 118.44 | | 394 | |
| | 1:45 | 300 | 135.87 | 121.13 | | 412 | |
| | 2:45 | 360 | 137.01 | 122.27 | | 392 | |
| | 3:45 | 420 | 142.95 | 128.21 | | 416 | |
| | 4:45 | 480 | 143.92 | 129.18 | | 395 | |
| | 5:45 | 540 | 145.71 | 130.97 | | 412 | |
| | 6:45 | 600 | 146.44 | 131.70 | | 407 | |
| | 7:45 | 660 | 147.04 | 132.30 | | 412 | |
| | 8:45 | 720 | 147.49 | 132.75 | | 412 | |
| | 9:45 | 780 | 148.05 | 133.31 | | 412 | |
| | 10:45 | 840 | 152.45 | 137.71 | | 431 | |
| | 11:45 | 900 | 153.47 | 138.73 | | 407 | |
| | 12:45 | 960 | 154.84 | 140.10 | 6.86 | 412 | |
| | | | | | Acre-feet pumped | 1.21 | 411 gpm |

February 11, 2015
Cleath-Harris Geologists
 Attn: Spencer Harris
 71 Zaca Lane
 Suite 140
 San Luis Obispo, CA 93401
 Description : North Fork Ranch CHG-2014-4
 Project : North Fork Ranch

Lab ID : CC 1580314-001
 Customer ID : 8-514
 Sampled On : January 30, 2015
 Sampled By : David Williams
 Received On : February 2, 2015
 Matrix : Ground Water

General Irrigation Suitability Analysis

| Test Description | Result | | | | Graphical Results Presentation | | | | |
|-------------------------|--------|-------|-------|------------|--|------------------|------------------|--------------------|----------------|
| | mg/L | Meq/L | % Meq | Lbs/AF | Good | Possible Problem | Moderate Problem | Increasing Problem | Severe Problem |
| Cations | | | | | | | | | |
| Calcium | 82 | 4.1 | 52 | 220 | ** | | | | |
| Magnesium | 32 | 2.6 | 34 | 87 | ** | | | | |
| Potassium | 1 | 0.026 | 0 | 3 | ** | | | | |
| Sodium | 25 | 1.1 | 14 | 68 |  | | | | |
| Anions | | | | | | | | | |
| Carbonate | < 10 | 0 | 0 | 0 |  | | | | |
| Bicarbonate | 290 | 4.8 | 62 | 790 | ** | | | | |
| Sulfate | 125 | 2.6 | 34 | 340 | ** | | | | |
| Chloride | 10 | 0.28 | 4 | 27 |  | | | | |
| Nitrate | 3.4 | 0.055 | 1 | 9 |  | | | | |
| Nitrate Nitrogen | 0.8 | | | 2 |  | | | | |
| Fluoride | 0.2 | 0.011 | 0 | 0.5 |  | | | | |
| Minor Elements | | | | | | | | | |
| Boron | < 0.1 | | | 0.00 |  | | | | |
| Copper | < 0.01 | | | 0.00 |  | | | | |
| Iron | 0.95 | | | 2.6 |  | | | | |
| Manganese | 0.020 | | | 0.054 |  | | | | |
| Zinc | < 0.02 | | | 0.00 |  | | | | |
| TDS by Summation | 569 | | | 1500 |  | | | | |
| Other | | | | | | | | | |
| pH | 7.5 | | | units |  | | | | |
| E. C. | 0.739 | | | dS/m |  | | | | |
| SAR | 0.6 | | | |  | | | | |
| Crop Suitability | | | | | | | | | |
| No Amendments | Fairly | | Good | |  | | | | |
| With Amendments | Good | | | |  | | | | |
| Amendments | | | | | | | | | |
| Gypsum Requirement | 0.0 | | | Tons/AF | | | | | |
| Sulfuric Acid (98%) | 17 | | | oz/1000Gal | | | | | |
| Leaching Requirement | 5.6 | | | % | | | | | |

Good  Problem

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

** Used in various calculations; mg/L = Milligrams Per Liter (ppm) meq/L = Milliequivalents Per Liter



February 11, 2015

Cleath-Harris Geologists

Lab ID : CC 1580314-001

Customer ID : 8-514

Description : North Fork Ranch CHG-2014-4

Micro Irrigation System Plugging Hazard

| Test Description | Result | Graphical Results Presentation | | |
|------------------------|-----------------|--|----------|--------|
| | | Slight | Moderate | Severe |
| Chemical | | | | |
| Manganese | 0.02 mg/L |  | | |
| Iron | 0.95 mg/L |  | | |
| TDS by Summation | 569 mg/L |  | | |
| No Amendments | | | | |
| pH | 7.5 units |  | | |
| Alkalinity (As CaCO3) | 240 mg/L |  | | |
| Total Hardness | 336 mg/L |  | | |
| With Amendments | | | | |
| Alkalinity (As CaCO3) | 48 mg/L |  | | |
| Total Hardness | 48 mg/L |  | | |
| pH | 5.4 - 6.7 units |  | | |

Good  Problem

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

Water Amendments Application Notes:

The Amendments recommended on the previous pages include:

Sulfuric Acid:

These products should be applied as needed to prevent emitter plugging in micro irrigation systems and/or as a soil amendment to adjust soil pH to improve nutrient availability and to facilitate leaching of salts. Please exercise caution when using this material as excesses may be harmful to the system and/or the plants being irrigated. The reported Acid requirement is intended to remove approximately 80 % of the alkalinity. The final pH should range from 5.4 to 6.7. We recommend a field pH determination to confirm that the pH you designate is being achieved. This application is based upon the use of a 98% Sulfuric Acid product. The application of Urea Sulfuric Acid is based upon the use of a product that contains 15% Urea (1.89 lbs Nitrogen), 49% Sulfuric Acid and has a specific gravity of 1.52 at 68 °F.

Guidelines for the above interpretations are sourced from USDA & U.C. Cooperative Extension Service publications. Please contact us if you have any questions.

FRUIT GROWERS LABORATORY, INC.

Scott Bucy

Scott Bucy, Director of Ag. Services

SB1:KDM

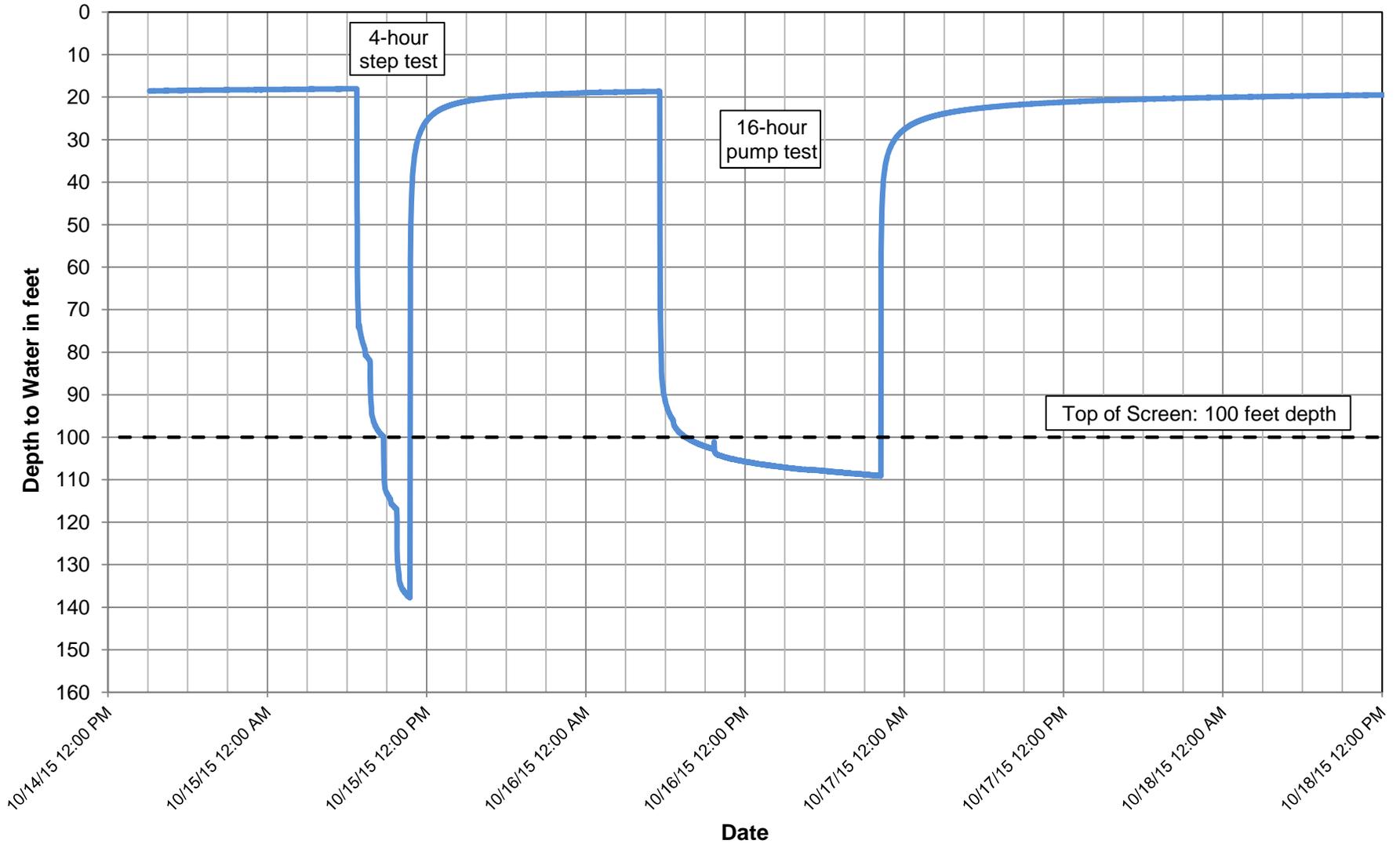


Well CHG-2014-5

Transducer Chart North Fork Ranch Well CHG-2014-5 Grapevine Capital Partners

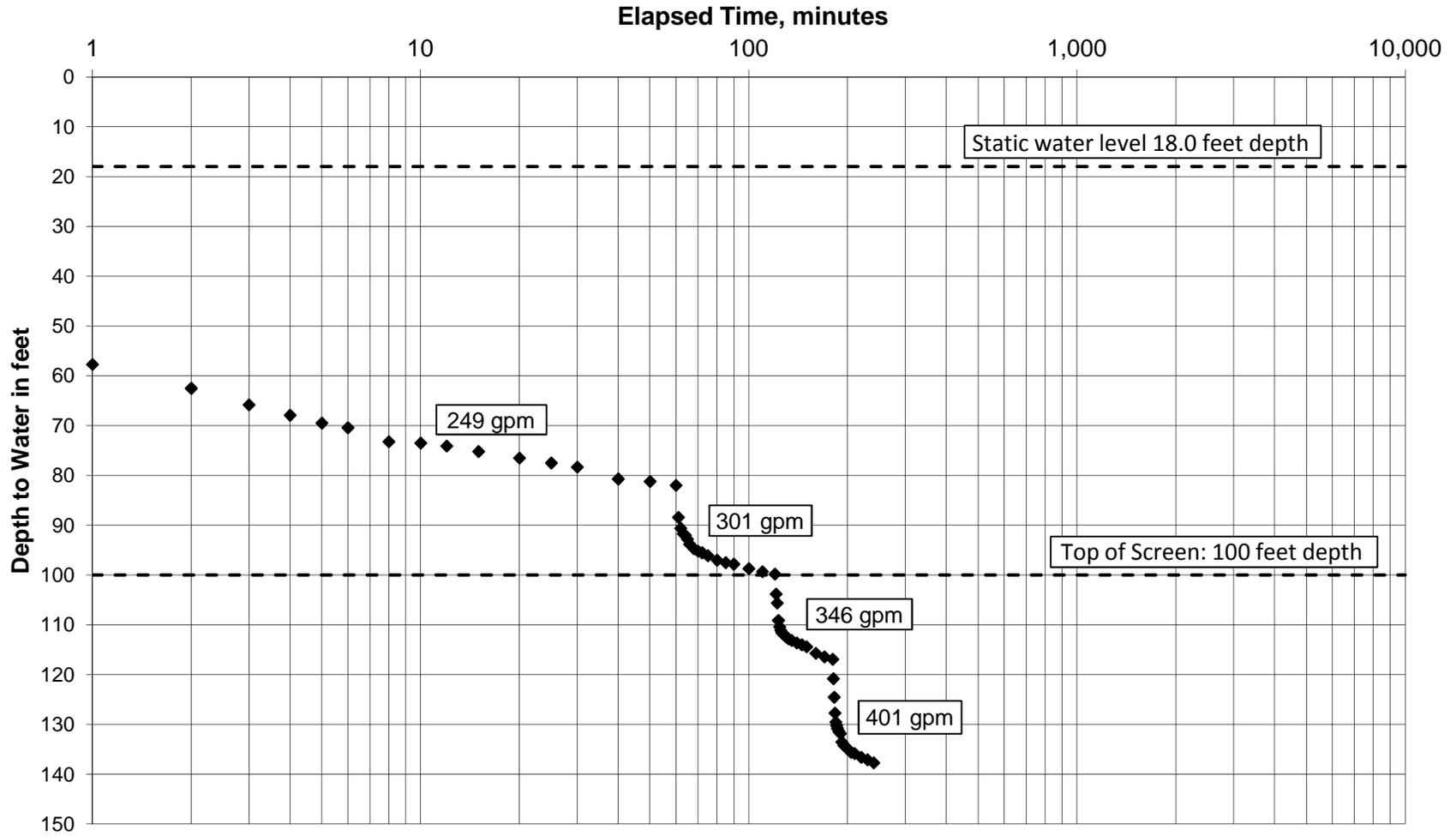
Static water level: 18.66 feet depth
on 10/16/15

Perforated interval:
100 to 340 feet
460 to 720 feet



StepTest (4-hour) North Fork Ranch Well CHG-2014-5
Grapevine Capital Partners
October 15, 2015

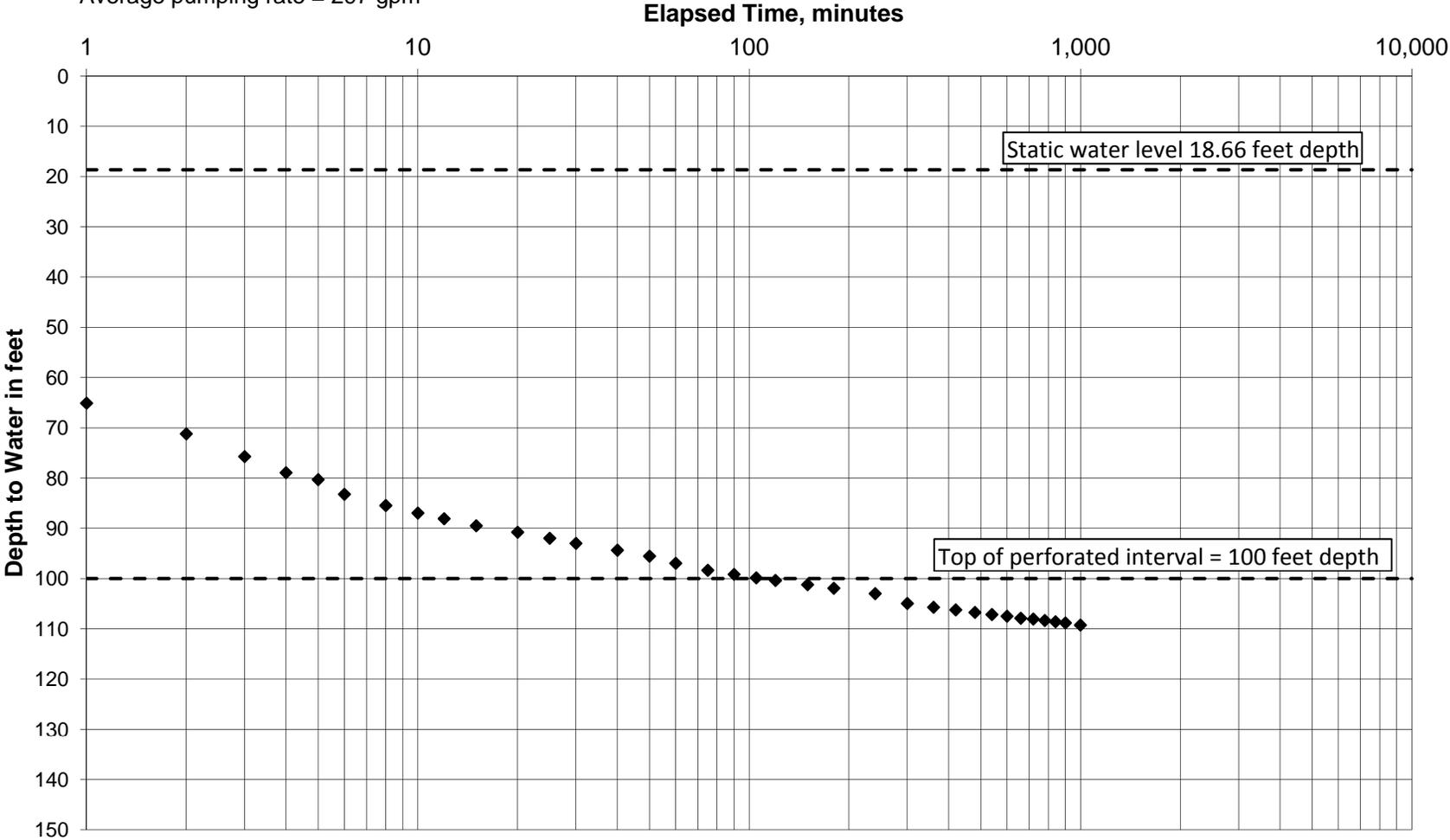
Perforated interval:
100 to 340 feet
460 to 720 feet



Pumping Test (16-hour) North Fork Ranch Well CHG-2014-5
Grapevine Capital Partners
October 16, 2015

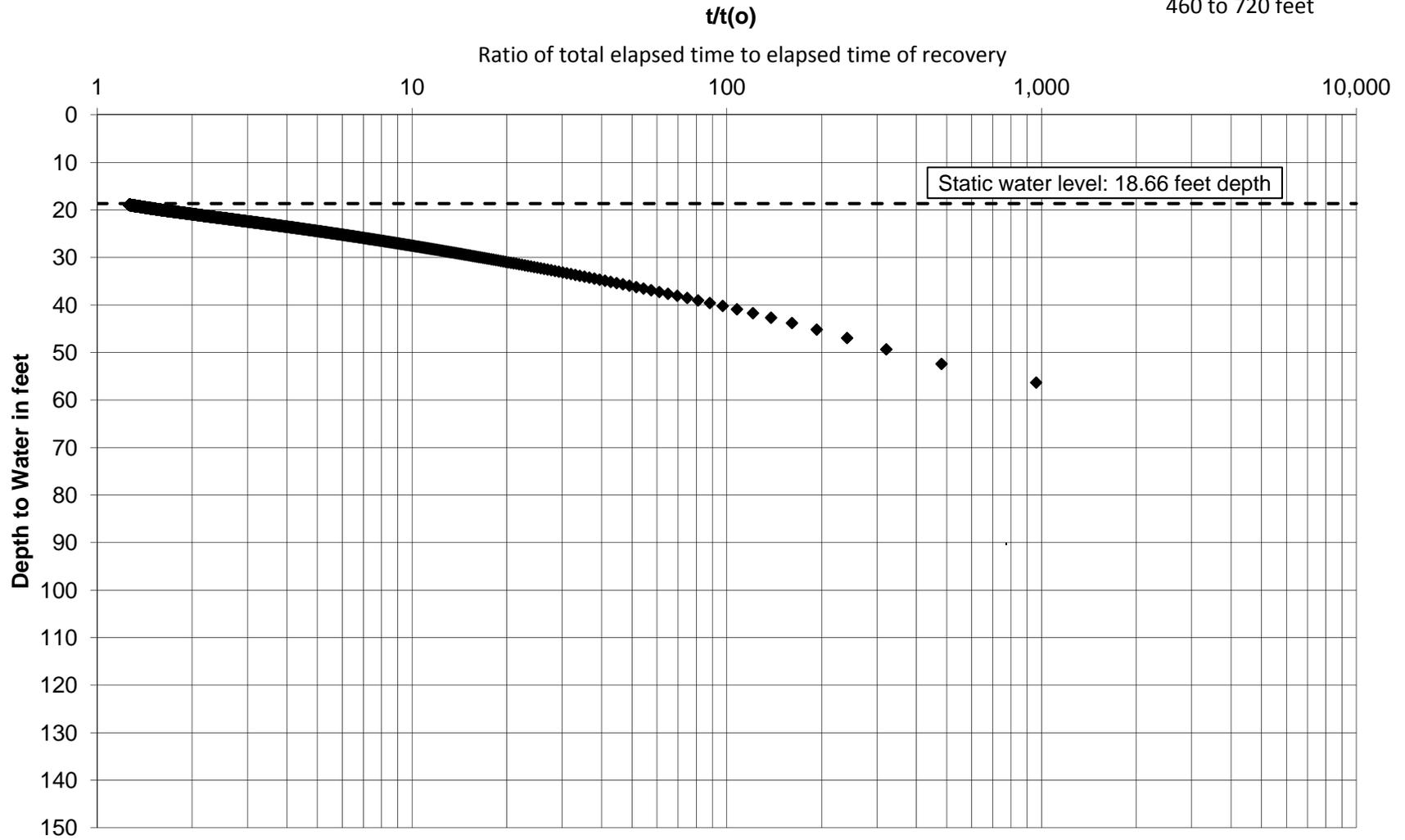
Perforated interval:
100 to 340 feet
460 to 720 feet

Static Water Level = 18.66 feet below top of casing
Average pumping rate = 297 gpm



Recovery Test, North Forks Ranch Well CHG-2014-5
Grapevine Capital Partners
October 16 to 19, 2015

Perforated interval:
100 to 340 feet
460 to 720 feet



Pumping Test (Step Test), North Fork Ranch CHG-2014-5

| Day | Time | Elapsed Time | Depth to Water* | Drawdown | Recorded Pumping Rate | meter |
|------------|-------------|---------------------|------------------------|-----------------|------------------------------|--------------|
| Mo./Day/Yr | hr:min | minutes | feet | feet | gallons per minute | AF |
| 10/15/15 | 6:45 | 0 | 18 | 0 | | 41.533 |
| | 6:46 | 1 | 57.7 | | | |
| | 6:47 | 2 | 62.5 | 44.5 | | |
| | 6:48 | 3 | 65.8 | 47.8 | | |
| | 6:49 | 4 | 67.9 | 49.9 | | |
| | 6:50 | 5 | 69.5 | 51.5 | | |
| | 6:51 | 6 | 70.4 | 52.4 | | |
| | 6:53 | 8 | 73.2 | 55.2 | | |
| | 6:55 | 10 | 73.5 | 55.5 | | |
| | 6:57 | 12 | 74.1 | 56.1 | | |
| | 7:00 | 15 | 75.2 | 57.2 | | |
| | 7:05 | 20 | 76.5 | 58.5 | | |
| | 7:10 | 25 | 77.5 | 59.5 | | |
| | 7:15 | 30 | 78.3 | 60.3 | | 41.5562 |
| | 7:25 | 40 | 80.7 | 62.7 | | |
| | 7:35 | 50 | 81.2 | 63.2 | | |
| | 7:45 | 60 | 82.0 | 63.2 | 249 | 41.579 |
| | 7:46 | 61 | 88.4 | 64.0 | | |
| | 7:47 | 62 | 90.6 | 72.6 | | |
| | 7:48 | 63 | 91.7 | 73.7 | | |
| | 7:49 | 64 | 92.0 | 74 | | |
| | 7:50 | 65 | 92.8 | 74.8 | | |
| | 7:51 | 66 | 93.8 | 75.8 | | |
| | 7:53 | 68 | 94.7 | 76.7 | | |
| | 7:55 | 70 | 95.2 | 77.2 | | |
| | 7:57 | 72 | 95.5 | 77.5 | | |
| | 8:00 | 75 | 96.1 | 78.1 | | |
| | 8:05 | 80 | 97.0 | 79 | | |
| | 8:10 | 85 | 97.5 | 79.5 | | |
| | 8:15 | 90 | 97.8 | 79.8 | | 41.6067 |
| | 8:25 | 100 | 98.7 | 80.7 | | |
| | 8:35 | 110 | 99.3 | 81.3 | | |
| | 8:45 | 120 | 99.8 | 81.8 | 301 | 41.6344 |
| | 8:46 | 121 | 103.8 | 85.8 | | |
| | 8:47 | 122 | 105.6 | 87.6 | | |
| | 8:48 | 123 | 109.1 | 91.1 | | |
| | 8:49 | 124 | 110.4 | 92.4 | | |
| | 8:50 | 125 | 111.1 | 93.1 | | |
| | 8:51 | 126 | 111.6 | 93.6 | | |
| | 8:53 | 128 | 112 | 94.0 | | |
| | 8:55 | 130 | 112.4 | 94.4 | | |
| | 8:57 | 132 | 112.8 | 94.8 | | |
| | 9:00 | 135 | 113.1 | 95.1 | | |
| | 9:05 | 140 | 113.6 | 95.6 | | |
| | 9:10 | 145 | 114.0 | 96.0 | | |
| | 9:15 | 150 | 114.4 | 96.4 | | 41.6664 |
| | 9:25 | 160 | 115.7 | 97.7 | | |
| | 9:35 | 170 | 116.4 | 98.4 | | |
| | 9:45 | 180 | 116.9 | 98.9 | 346 | 41.6981 |
| | 9:46 | 181 | 120.8 | 102.8 | | |
| | 9:47 | 182 | 124.5 | 106.5 | | |
| | 9:48 | 183 | 127.7 | 109.7 | | |
| | 9:49 | 184 | 129.5 | 111.5 | | |
| | 9:50 | 185 | 130.2 | 112.2 | | |
| | 9:51 | 186 | 130.8 | 112.8 | | |
| | 9:53 | 188 | 131.4 | 113.4 | | |
| | 9:55 | 190 | 131.8 | 113.8 | | |
| | 9:57 | 192 | 133.5 | 115.5 | | |
| | 10:00 | 195 | 134.2 | 116.2 | | |
| | 10:05 | 200 | 134.9 | 116.9 | | |
| | 10:10 | 205 | 135.6 | 117.6 | | |
| | 10:15 | 210 | 135.8 | 117.8 | | |
| | 10:25 | 220 | 136.6 | 118.6 | | |
| | 10:35 | 230 | 137.1 | 119.1 | | |
| | 10:45 | 240 | 137.7 | 119.7 | 401 | 41.772 |

Pumping Test (16-hour) North Fork Ranch Well CHG-2014-5

| Day | Time | Elapsed Time | Depth to Water | Drawdown | Totalizer | Rate |
|------------|-------------|---------------------|-----------------------|-----------------|------------------|-------------|
| Mo./Day/Yr | hr:min | minutes | feet | feet | Acre-Feet | GPM |
| 10/16/15 | 5:35 | 0 | 18.66 | 0.00 | 41.772 | |
| | 5:36 | 1 | 65.10 | 46.44 | | |
| | 5:37 | 2 | 71.19 | 52.53 | | |
| | 5:38 | 3 | 75.72 | 57.06 | | |
| | 5:39 | 4 | 78.93 | 60.27 | | |
| | 5:40 | 5 | 80.30 | 61.64 | | |
| | 5:41 | 6 | 83.23 | 64.57 | | |
| | 5:43 | 8 | 85.46 | 66.80 | | |
| | 5:45 | 10 | 86.95 | 68.29 | | |
| | 5:47 | 12 | 88.08 | 69.42 | | |
| | 5:50 | 15 | 89.49 | 70.83 | 41.7858 | 299.8 |
| | 5:55 | 20 | 90.76 | 72.10 | | |
| | 6:00 | 25 | 91.97 | 73.31 | | |
| | 6:05 | 30 | 92.99 | 74.33 | | |
| | 6:15 | 40 | 94.35 | 75.69 | 41.8093 | 306.3 |
| | 6:25 | 50 | 95.53 | 76.87 | | |
| | 6:35 | 60 | 96.95 | 78.29 | 41.8269 | 286.7 |
| | 6:50 | 75 | 98.35 | 79.69 | | |
| | 7:05 | 90 | 99.16 | 80.50 | 41.8551 | 306.3 |
| | 7:20 | 105 | 99.85 | 81.19 | | |
| | 7:35 | 120 | 100.37 | 81.71 | 41.8816 | 287.8 |
| | 8:05 | 150 | 101.21 | 82.55 | 41.9094 | 302.0 |
| | 8:35 | 180 | 101.92 | 83.26 | 41.9379 | 309.6 |
| | 9:35 | 240 | 102.99 | 84.33 | 41.9911 | 288.9 |
| | 10:35 | 300 | 104.95 | 86.29 | 42.0458 | 297.1 |
| | 11:35 | 360 | 105.71 | 87.05 | 42.1007 | 298.2 |
| | 12:35 | 420 | 106.23 | 87.57 | 42.1553 | 296.5 |
| | 13:35 | 480 | 106.73 | 88.07 | 42.2107 | 300.9 |
| | 14:35 | 540 | 107.15 | 88.49 | 42.2646 | 292.7 |
| | 15:35 | 600 | 107.49 | 88.83 | 42.3204 | 303.0 |
| | 16:35 | 660 | 107.89 | 89.23 | 42.3742 | 292.2 |
| | 17:35 | 720 | 108.05 | 89.39 | 42.4287 | 296.0 |
| | 18:35 | 780 | 108.33 | 89.67 | 42.4834 | 297.1 |
| | 19:35 | 840 | 108.59 | 89.93 | 42.5379 | 296.0 |
| | 20:35 | 900 | 108.83 | 90.17 | 42.5913 | 290.0 |
| | 22:14 | 999 | 109.25 | 90.59 | 42.6815 | 296.9 |

297 average

October 28, 2015
Cleath-Harris Geologists
 Attn: Spencer Harris
 71 Zaca Lane
 Suite 140
 San Luis Obispo, CA 93401
 Description : CHG-2014-5
 Project : North Forks Ranch

Lab ID : CC 1583548-001
 Customer ID : 8-514
 Sampled On : October 16, 2015
 Sampled By : Spencer B. Harris, J
 Received On : October 16, 2015
 Matrix : Ground Water

General Irrigation Suitability Analysis

| Test Description | Result | | | | Graphical Results Presentation | | | | |
|-------------------------|--------|-------|-------|------------|---|------------------|------------------|--------------------|----------------|
| | mg/L | Meq/L | % Meq | Lbs/AF | Good | Possible Problem | Moderate Problem | Increasing Problem | Severe Problem |
| Cations | | | | | | | | | |
| Calcium | 53 | 2.6 | 41 | 140 | ** | | | | |
| Magnesium | 24 | 2 | 31 | 65 | ** | | | | |
| Potassium | 2 | 0.051 | 1 | 5 | ** | | | | |
| Sodium | 41 | 1.8 | 28 | 110 |  | | | | |
| Anions | | | | | | | | | |
| Carbonate | < 10 | 0 | 0 | 0 |  | | | | |
| Bicarbonate | 210 | 3.4 | 52 | 570 | ** | | | | |
| Sulfate | 127 | 2.6 | 40 | 350 | ** | | | | |
| Chloride | 15 | 0.42 | 6 | 41 |  | | | | |
| Nitrate | 8.4 | 0.14 | 2 | 23 |  | | | | |
| Nitrate Nitrogen | 1.9 | | | 5 |  | | | | |
| Fluoride | 0.2 | 0.011 | 0 | 0.5 |  | | | | |
| Minor Elements | | | | | | | | | |
| Boron | 0.20 | | | 0.54 |  | | | | |
| Copper | < 0.01 | | | 0.00 |  | | | | |
| Iron | 0.040 | | | 0.11 |  | | | | |
| Manganese | < 0.01 | | | 0.00 |  | | | | |
| Zinc | < 0.02 | | | 0.00 |  | | | | |
| TDS by Summation | 481 | | | 1300 |  | | | | |
| Other | | | | | | | | | |
| pH | 7.2 | | | units |  | | | | |
| E. C. | 0.656 | | | dS/m |  | | | | |
| SAR | 1.2 | | | |  | | | | |
| Crop Suitability | | | | | | | | | |
| No Amendments | Good | | | |  | | | | |
| With Amendments | Good | | | |  | | | | |
| Amendments | | | | | | | | | |
| Gypsum Requirement | 0.08 | | | Tons/AF | | | | | |
| Sulfuric Acid (98%) | 13 | | | oz/1000Gal | | | | | |
| Leaching Requirement | 4.9 | | | % | | | | | |

Good  Problem

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

** Used in various calculations; mg/L = Milligrams Per Liter (ppm) meq/L = Milliequivalents Per Liter



October 28, 2015

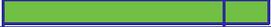
Cleath-Harris Geologists

Lab ID : CC 1583548-001

Customer ID : 8-514

Description : CHG-2014-5

Micro Irrigation System Plugging Hazard

| Test Description | Result | | Graphical Results Presentation | | |
|------------------------|-----------|-------|--|----------|--------|
| | | | Slight | Moderate | Severe |
| Chemical | | | | | |
| Manganese | < 0.01 | mg/L |  | | |
| Iron | 0.04 | mg/L |  | | |
| TDS by Summation | 481 | mg/L |  | | |
| No Amendments | | | | | |
| pH | 7.2 | units |  | | |
| Alkalinity (As CaCO3) | 180 | mg/L |  | | |
| Total Hardness | 231 | mg/L |  | | |
| With Amendments | | | | | |
| Alkalinity (As CaCO3) | 36 | mg/L |  | | |
| Total Hardness | 36 | mg/L |  | | |
| pH | 5.4 - 6.7 | units |  | | |

Good  Problem

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

Water Amendments Application Notes:

The Amendments recommended on the previous pages include:

Gypsum:

This should be applied at least once a year to the irrigated soil surface area. Gypsum can also be applied in smaller quantities in the irrigation water. Apply the smaller (bracketed) amount of gypsum when also applying the recommended amount of Sulfuric Acid and the larger amount when applying only Gypsum.

Sulfuric Acid:

These products should be applied as needed to prevent emitter plugging in micro irrigation systems and/or as a soil amendment to adjust soil pH to improve nutrient availability and to facilitate leaching of salts. Please exercise caution when using this material as excesses may be harmful to the system and/or the plants being irrigated. The reported Acid requirement is intended to remove approximately 80 % of the alkalinity. The final pH should range from 5.4 to 6.7. We recommend a field pH determination to confirm that the pH you designate is being achieved. This application is based upon the use of a 98% Sulfuric Acid product. The application of Urea Sulfuric Acid is based upon the use of a product that contains 15% Urea (1.89 lbs Nitrogen), 49% Sulfuric Acid and has a specific gravity of 1.52 at 68 °F.

Guidelines for the above interpretations are sourced from USDA & U.C. Cooperative Extension Service publications. Please contact us if you have any questions.

FRUIT GROWERS LABORATORY, INC.

Scott Bucy

Scott Bucy, Director of Ag. Services

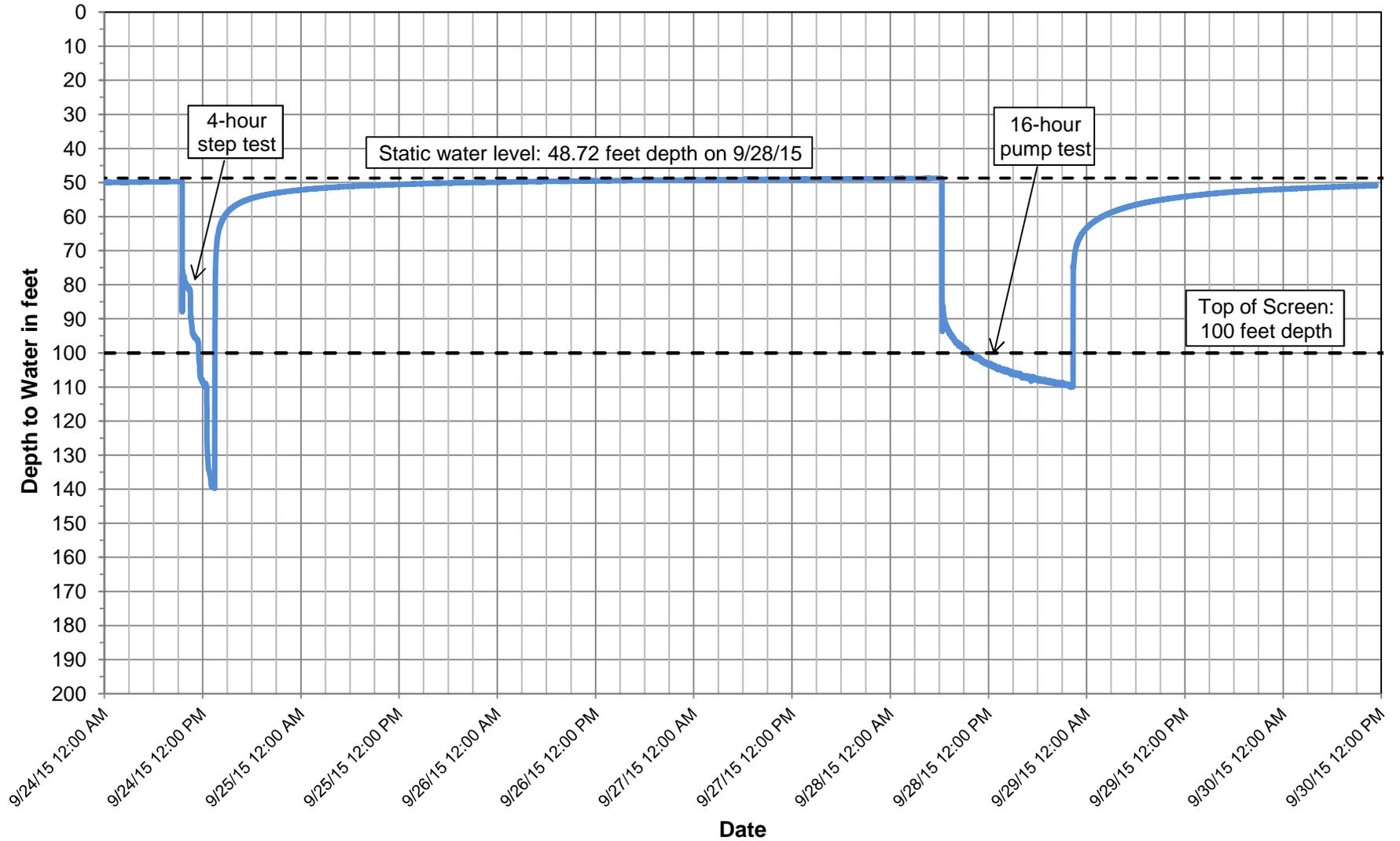
SB1:KDM



Well CHG-2014-6

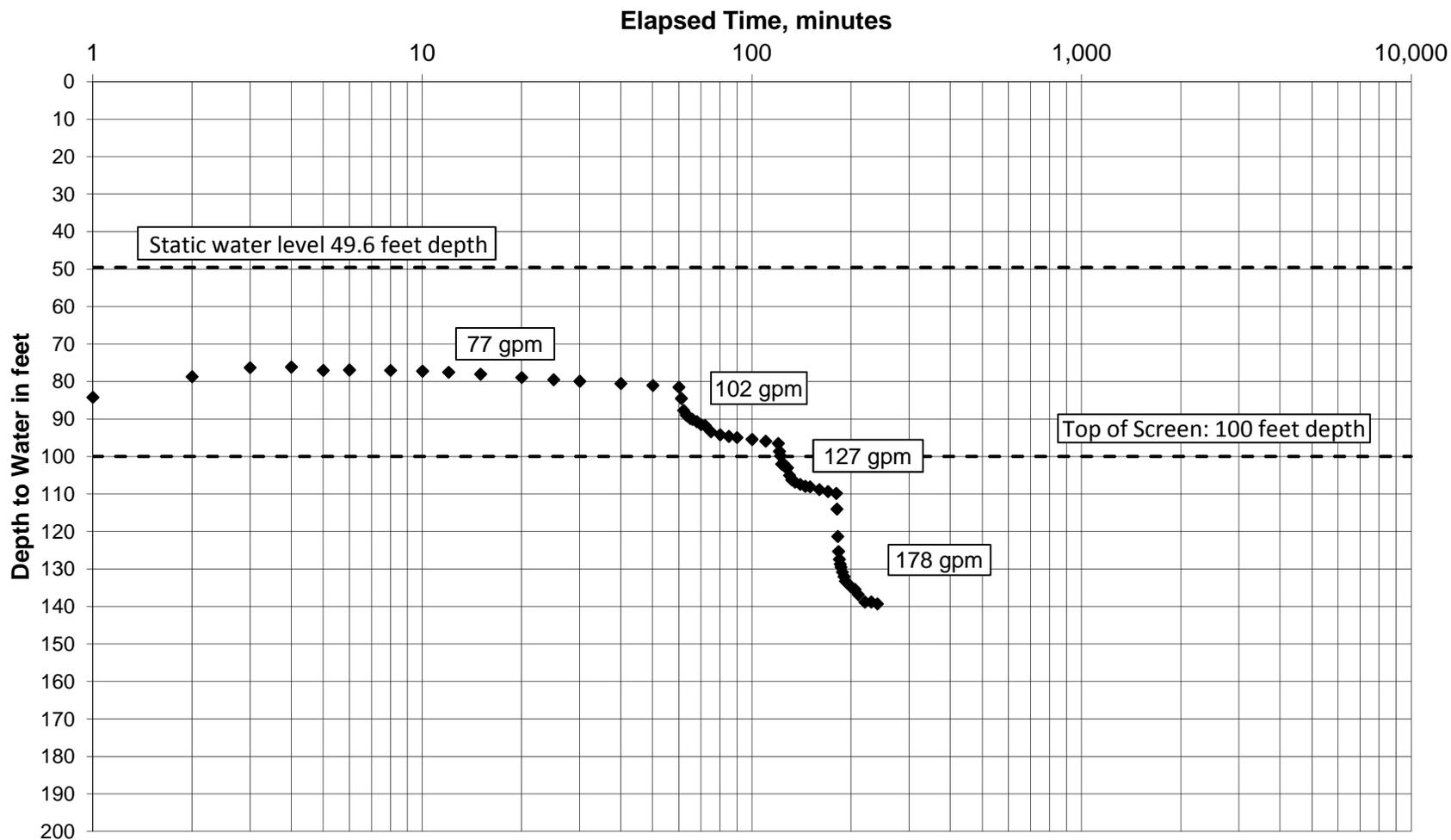
**Transducer Chart North Fork Ranch Well CHG-2014-6
Grapevine Capital Partners
September 23 to September 30, 2015**

Perforated interval:
100 to 360 feet



StepTest (4-hour) North Fork Ranch Well CHG-2014-6
Grapevine Capital Partners
September 24, 2015

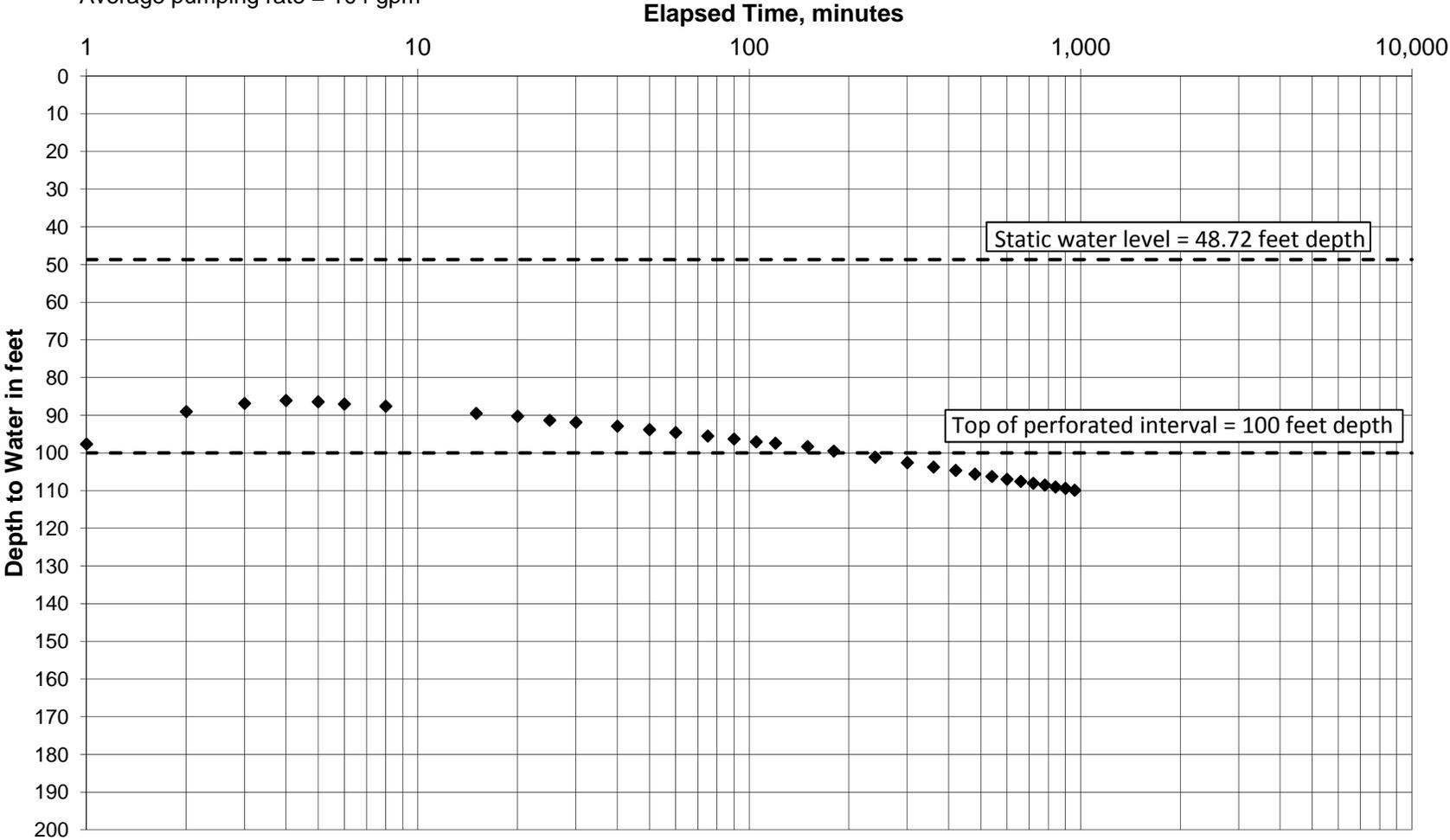
Perforated interval:
100 to 360 feet



Pumping Test (16-hour) North Fork Ranch Well CHG-2014-6
Grapevine Capital Partners
September 28, 2015

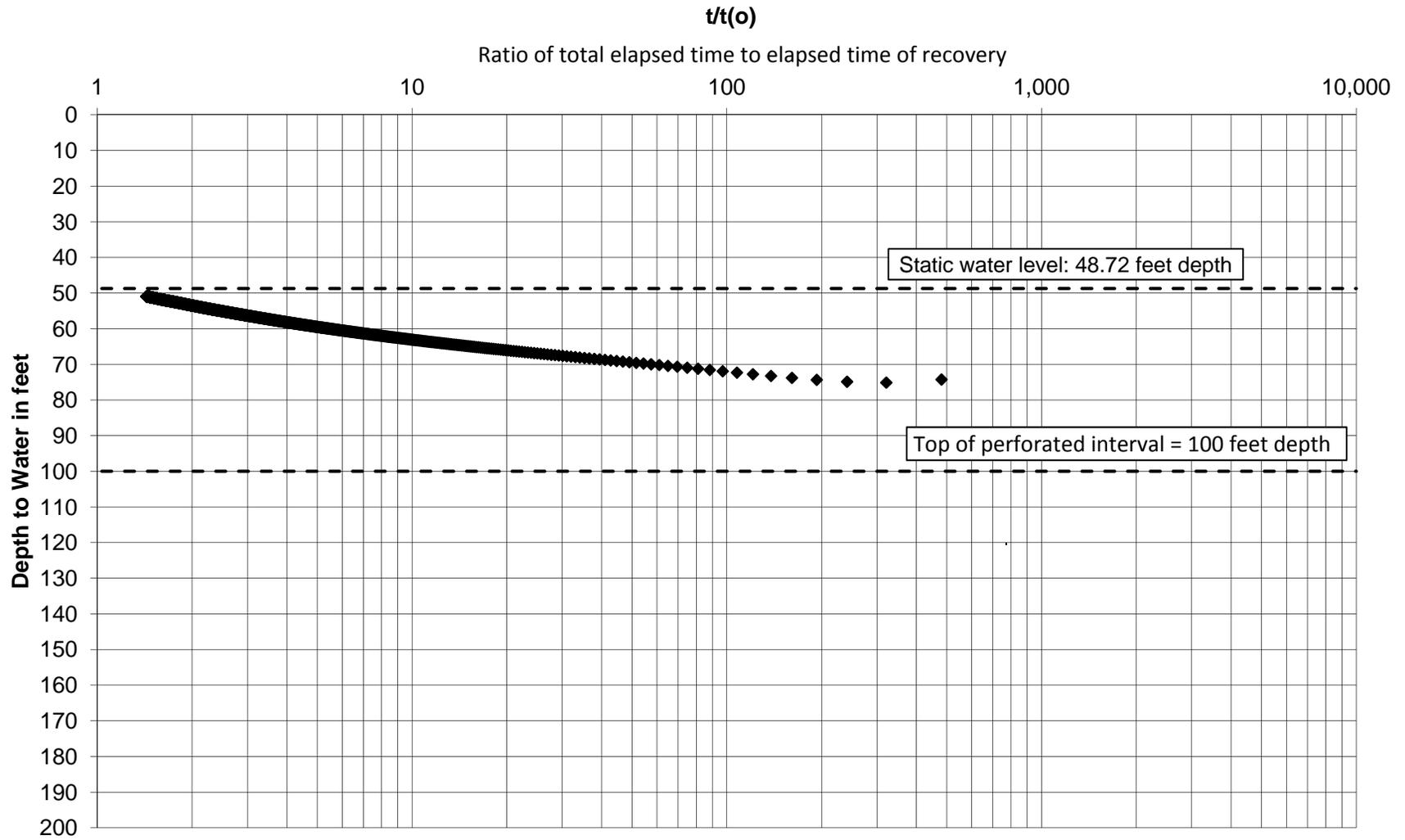
Perforated interval:
100 to 360 feet

Static Water Level = 48.72 feet below top of casing
Average pumping rate = 104 gpm



Recovery Test, North Forks Ranch Well CHG-2014-6
Grapevine Capital Partners
September 28 to 30, 2015

Perforated interval:
100 to 360 feet



Pumping Test (Step Test), North Fork Ranch CHG-2014-6

| Day | Time | Elapsed Time | Depth to Water | Drawdown | Recorded Pumping Rate | |
|------------|-------------|---------------------|-----------------------|-----------------|------------------------------|-------------------|
| Mo./Day/Yr | hr:min | minutes | feet | feet | gallons per minute | |
| 9/24/15 | 9:30 | 0 | 49.6 | 0 | | |
| | 9:31 | 1 | 84.2 | 34.6 | 80 | |
| | 9:32 | 2 | 78.7 | 29.1 | 77 | |
| | 9:33 | 3 | 76.3 | 26.7 | 72 | |
| | 9:34 | 4 | 76.1 | 26.5 | 80 | |
| | 9:35 | 5 | 77.0 | 27.4 | 81 | |
| | 9:36 | 6 | 76.9 | 27.3 | 76 | |
| | 9:38 | 8 | 77.0 | 27.4 | 75 | |
| | 9:40 | 10 | 77.2 | 27.6 | 78 | |
| | 9:42 | 12 | 77.5 | 27.9 | 77 | |
| | 9:45 | 15 | 78.0 | 28.4 | 79 | |
| | 9:50 | 20 | 78.9 | 29.3 | 76 | |
| | 9:55 | 25 | 79.5 | 29.9 | 75 | |
| | 10:00 | 30 | 79.9 | 30.3 | 76 | |
| | 10:10 | 40 | 80.5 | 30.9 | 75 | |
| | 10:20 | 50 | 81.0 | 31.4 | 75 | |
| | 10:30 | 60 | 81.5 | 31.4 | 76 | average: 76.8 gpm |
| | 10:31 | 61 | 84.5 | 31.9 | 99 | |
| | 10:32 | 62 | 87.7 | 38.1 | 107 | |
| | 10:33 | 63 | 88.9 | 39.3 | 98 | |
| | 10:34 | 64 | 89.2 | 39.6 | 99 | |
| | 10:35 | 65 | 89.9 | 40.3 | 104 | |
| | 10:36 | 66 | 90.1 | 40.5 | 103 | |
| | 10:38 | 68 | 90.7 | 41.1 | 98 | |
| 10:40 | 70 | 91.5 | 41.9 | 100 | | |
| 10:42 | 72 | 91.7 | 42.1 | 103 | | |
| 10:45 | 75 | 93.4 | 43.8 | 102 | | |
| 10:50 | 80 | 94.2 | 44.6 | 104 | | |
| 10:55 | 85 | 94.6 | 45 | 104 | | |
| 11:00 | 90 | 94.9 | 45.3 | 104 | | |
| 11:10 | 100 | 95.4 | 45.8 | 104 | | |
| 11:20 | 110 | 95.9 | 46.3 | 105 | | |
| 11:30 | 120 | 96.5 | 46.9 | 104 | average: 102.4 gpm | |
| 11:31 | 121 | 98.6 | 49.0 | 125 | | |
| 11:32 | 122 | 99.8 | 50.2 | 127 | | |
| 11:33 | 123 | 102.0 | 52.4 | 130 | | |
| 11:34 | 124 | 101.8 | 52.2 | 127 | | |
| 11:35 | 125 | 102.2 | 52.6 | 124 | | |
| 11:36 | 126 | 102.7 | 53.1 | 128 | | |
| 11:38 | 128 | 103.0 | 53.4 | 127 | | |
| 11:40 | 130 | 105.0 | 55.4 | 126 | | |
| 11:42 | 132 | 106.2 | 56.6 | 126 | | |
| 11:45 | 135 | 106.8 | 57.2 | 128 | | |
| 11:50 | 140 | 107.4 | 57.8 | 127 | | |
| 11:55 | 145 | 107.9 | 58.3 | 127 | | |
| 12:00 | 150 | 108.1 | 58.5 | 128 | | |
| 12:10 | 160 | 108.8 | 59.2 | 127 | | |
| 12:20 | 170 | 109.3 | 59.7 | 128 | | |
| 12:30 | 180 | 109.8 | 60.2 | 127 | average: 127 gpm | |
| 12:31 | 181 | 114.0 | 64.4 | 183 | | |
| 12:32 | 182 | 121.3 | 71.7 | 180 | | |
| 12:33 | 183 | 125.3 | 75.7 | 182 | | |
| 12:34 | 184 | 127.4 | 77.8 | 178 | | |
| 12:35 | 185 | 128.7 | 79.1 | 177 | | |
| 12:36 | 186 | 129.5 | 79.9 | 177 | | |
| 12:38 | 188 | 130.8 | 81.2 | 178 | | |
| 12:40 | 190 | 132.0 | 82.4 | 176 | | |
| 12:42 | 192 | 133.2 | 83.6 | 177 | | |
| 12:45 | 195 | 133.8 | 84.2 | 178 | | |
| 12:50 | 200 | 134.8 | 85.2 | 178 | | |
| 12:55 | 205 | 135.4 | 85.8 | 177 | | |
| 13:00 | 210 | 136.8 | 87.2 | 177 | | |
| 13:10 | 220 | 138.8 | 89.2 | 178 | | |
| 13:20 | 230 | 138.8 | 89.2 | 179 | | |
| 13:30 | 240 | 139.3 | 89.7 | 178 | average: 178.3 gpm | |

Pumping Test (16-hour) North Fork Ranch Well CHG-2014-6

| Day | Time | Elapsed Time | Depth to Water | Drawdown | Totalizer | Rate |
|------------|-------------|---------------------|-----------------------|-----------------|------------------|-------------|
| Mo./Day/Yr | hr:min | minutes | feet | feet | Acre-Feet | GPM |
| 9/28/15 | 6:20 | 0 | 48.72 | 0.00 | 39.8195 | |
| | 6:21 | 1 | 97.65 | 48.93 | | |
| | 6:22 | 2 | 89.02 | 40.30 | | |
| | 6:23 | 3 | 86.85 | 38.13 | | |
| | 6:24 | 4 | 86.07 | 37.35 | | |
| | 6:25 | 5 | 86.43 | 37.71 | | |
| | 6:26 | 6 | 87.02 | 38.30 | | |
| | 6:28 | 8 | 87.60 | 38.88 | | |
| | 6:35 | 15 | 89.50 | 40.78 | | |
| | 6:40 | 20 | 90.25 | 41.53 | | |
| | 6:45 | 25 | 91.33 | 42.61 | | |
| | 6:50 | 30 | 91.88 | 43.16 | | |
| | 7:00 | 40 | 92.89 | 44.17 | 39.8328 | 108.3 |
| | 7:10 | 50 | 93.81 | 45.09 | | |
| | 7:20 | 60 | 94.58 | 45.86 | 39.8399 | 115.7 |
| | 7:35 | 75 | 95.52 | 46.80 | | |
| | 7:50 | 90 | 96.30 | 47.58 | 39.8486 | 94.5 |
| | 8:05 | 105 | 97.04 | 48.32 | 39.8535 | 106.4 |
| | 8:20 | 120 | 97.41 | 48.69 | | |
| | 8:50 | 150 | 98.30 | 49.58 | | |
| | 9:20 | 180 | 99.49 | 50.77 | 39.8773 | 103.4 |
| | 10:20 | 240 | 101.13 | 52.41 | 39.8966 | 104.8 |
| | 11:20 | 300 | 102.59 | 53.87 | 39.9153 | 101.6 |
| | 12:20 | 360 | 103.74 | 55.02 | 39.9344 | 103.7 |
| | 13:20 | 420 | 104.63 | 55.91 | 39.9535 | 103.7 |
| | 14:20 | 480 | 105.60 | 56.88 | 39.9725 | 103.2 |
| | 15:20 | 540 | 106.25 | 57.53 | 39.9915 | 103.2 |
| | 16:20 | 600 | 106.98 | 58.26 | 40.0103 | 102.1 |
| | 17:20 | 660 | 107.55 | 58.83 | 40.0295 | 104.3 |
| | 18:20 | 720 | 108.05 | 59.33 | 40.0484 | 102.6 |
| | 19:20 | 780 | 108.52 | 59.80 | 40.0670 | 101.0 |
| | 20:20 | 840 | 109.03 | 60.31 | 40.0863 | 104.8 |
| | 21:20 | 900 | 109.39 | 60.67 | 40.1048 | 100.5 |
| | 22:20 | 960 | 109.89 | 61.17 | 40.1236 | 102.1 |

October 5, 2015
Cleath-Harris Geologists
 Attn: Spencer Harris
 71 Zaca Lane
 Suite 140
 San Luis Obispo, CA 93401
 Description : CHG-2014-6
 Project : North Fork Ranch

Lab ID : CC 1583326-001
 Customer ID : 8-514
 Sampled On : September 28, 2015
 Sampled By : Spencer B. Harris, J
 Received On : September 28, 2015
 Matrix : Ground Water

General Irrigation Suitability Analysis

| Test Description | Result | | | | Graphical Results Presentation | | | | |
|-------------------------|--------|-------|-------|------------|--|------------------|------------------|--------------------|----------------|
| | mg/L | Meq/L | % Meq | Lbs/AF | Good | Possible Problem | Moderate Problem | Increasing Problem | Severe Problem |
| Cations | | | | | | | | | |
| Calcium | 142 | 7.1 | 39 | 390 | ** | | | | |
| Magnesium | 71 | 5.8 | 32 | 190 | ** | | | | |
| Potassium | 4 | 0.1 | 1 | 11 | ** | | | | |
| Sodium | 119 | 5.2 | 28 | 320 |  | | | | |
| Anions | | | | | | | | | |
| Carbonate | < 10 | 0 | 0 | 0 |  | | | | |
| Bicarbonate | 220 | 3.6 | 19 | 600 | ** | | | | |
| Sulfate | 600 | 12 | 67 | 1600 | ** | | | | |
| Chloride | 80 | 2.3 | 12 | 220 |  | | | | |
| Nitrate | 12.5 | 0.2 | 1 | 34 |  | | | | |
| Nitrate Nitrogen | 2.8 | | | 8 |  | | | | |
| Fluoride | 0.3 | 0.016 | 0 | 0.8 |  | | | | |
| Minor Elements | | | | | | | | | |
| Boron | 0.30 | | | 0.82 |  | | | | |
| Copper | < 0.01 | | | 0.00 |  | | | | |
| Iron | 0.26 | | | 0.71 |  | | | | |
| Manganese | 0.050 | | | 0.14 |  | | | | |
| Zinc | < 0.02 | | | 0.00 |  | | | | |
| TDS by Summation | 1250 | | | 3400 |  | | | | |
| Other | | | | | | | | | |
| pH | 7.1 | | | units |  | | | | |
| E. C. | 1.75 | | | dS/m |  | | | | |
| SAR | 2.0 | | | |  | | | | |
| Crop Suitability | | | | | | | | | |
| No Amendments | Fair | | | |  | | | | |
| With Amendments | Fairly | | Good | |  | | | | |
| Amendments | | | | | | | | | |
| Gypsum Requirement | 0.0 | | | Tons/AF | | | | | |
| Sulfuric Acid (98%) | 13 | | | oz/1000Gal | Or 30 oz/1000Gal of urea Sulfuric Acid (15/49). | | | | |
| Leaching Requirement | 14 | | | % | | | | | |

Good  Problem

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

** Used in various calculations; mg/L = Milligrams Per Liter (ppm) meq/L = Milliequivalents Per Liter



October 5, 2015

Cleath-Harris Geologists

Lab ID : CC 1583326-001

Customer ID : 8-514

Description : CHG-2014-6

Micro Irrigation System Plugging Hazard

| Test Description | Result | Graphical Results Presentation | | |
|------------------------|-----------------|--|----------|--------|
| | | Slight | Moderate | Severe |
| Chemical | | | | |
| Manganese | 0.05 mg/L |  | | |
| Iron | 0.26 mg/L |  | | |
| TDS by Summation | 1250 mg/L |  | | |
| No Amendments | | | | |
| pH | 7.1 units |  | | |
| Alkalinity (As CaCO3) | 180 mg/L |  | | |
| Total Hardness | 646 mg/L |  | | |
| With Amendments | | | | |
| Alkalinity (As CaCO3) | 36 mg/L |  | | |
| Total Hardness | 36 mg/L |  | | |
| pH | 5.4 - 6.7 units |  | | |

Good  Problem

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

Water Amendments Application Notes:

The Amendments recommended on the previous pages include:

Sulfuric Acid:

These products should be applied as needed to prevent emitter plugging in micro irrigation systems and/or as a soil amendment to adjust soil pH to improve nutrient availability and to facilitate leaching of salts. Please exercise caution when using this material as excesses may be harmful to the system and/or the plants being irrigated. The reported Acid requirement is intended to remove approximately 80 % of the alkalinity. The final pH should range from 5.4 to 6.7. We recommend a field pH determination to confirm that the pH you designate is being achieved. This application is based upon the use of a 98% Sulfuric Acid product. The application of Urea Sulfuric Acid is based upon the use of a product that contains 15% Urea (1.89 lbs Nitrogen), 49% Sulfuric Acid and has a specific gravity of 1.52 at 68 °F.

Guidelines for the above interpretations are sourced from USDA & U.C. Cooperative Extension Service publications. Please contact us if you have any questions.

FRUIT GROWERS LABORATORY, INC.

Scott Bucy

Scott Bucy, Director of Ag. Services

SB1:KDM

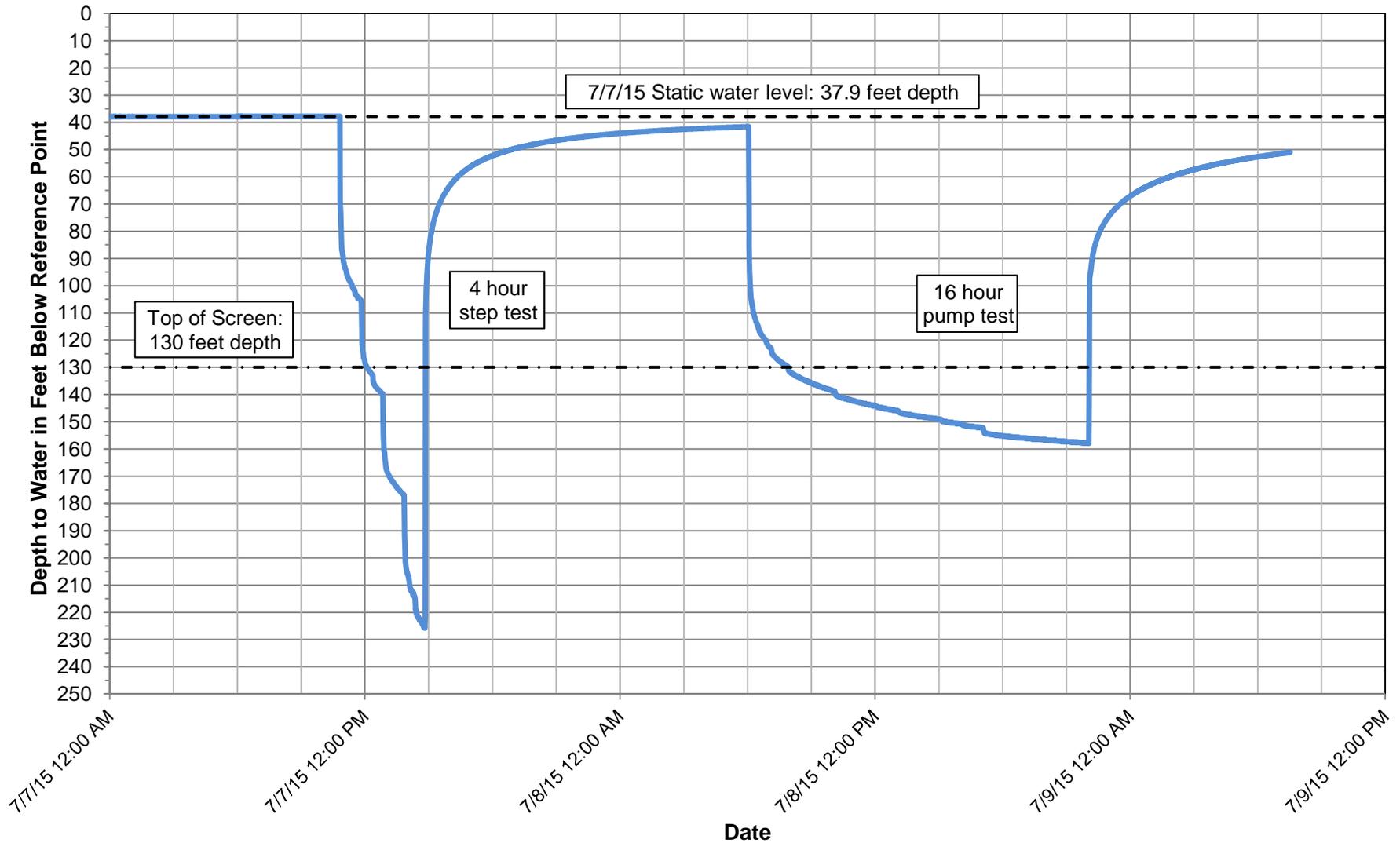


Well CHG-2014-7

Transducer Chart North Fork Ranch Well CHG-2014-7
Grapevine Capital Partners
June 27 to July 10, 2015

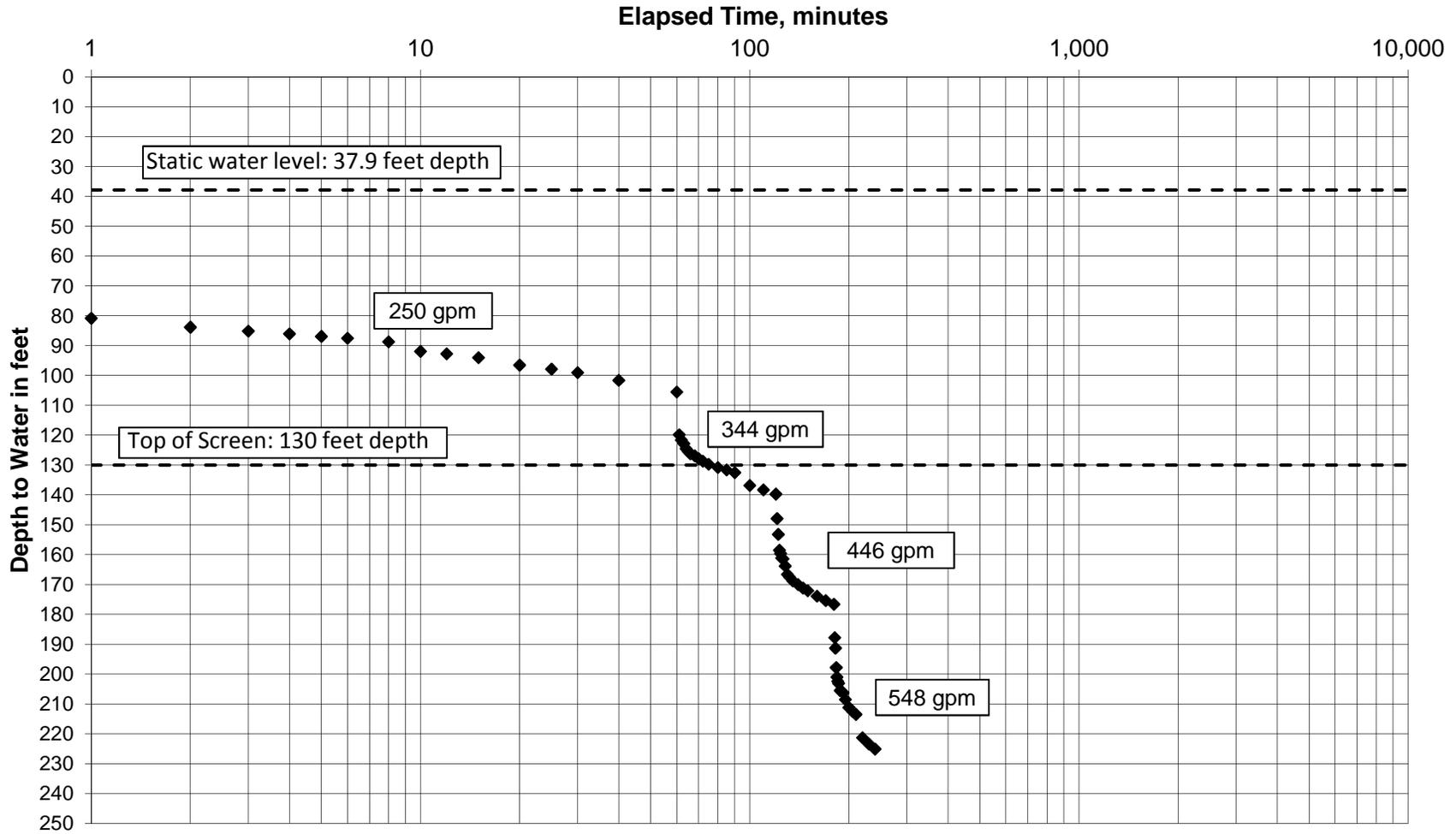
Perforated interval below ground surface:
130 to 310 feet
390 to 430 feet
510 to 590 feet

Reference Point
Elevation: 1710 feet



StepTest (4-hour) North Fork Ranch Well CHG-2014-7
Grapevine Capital Partners
July 7, 2015

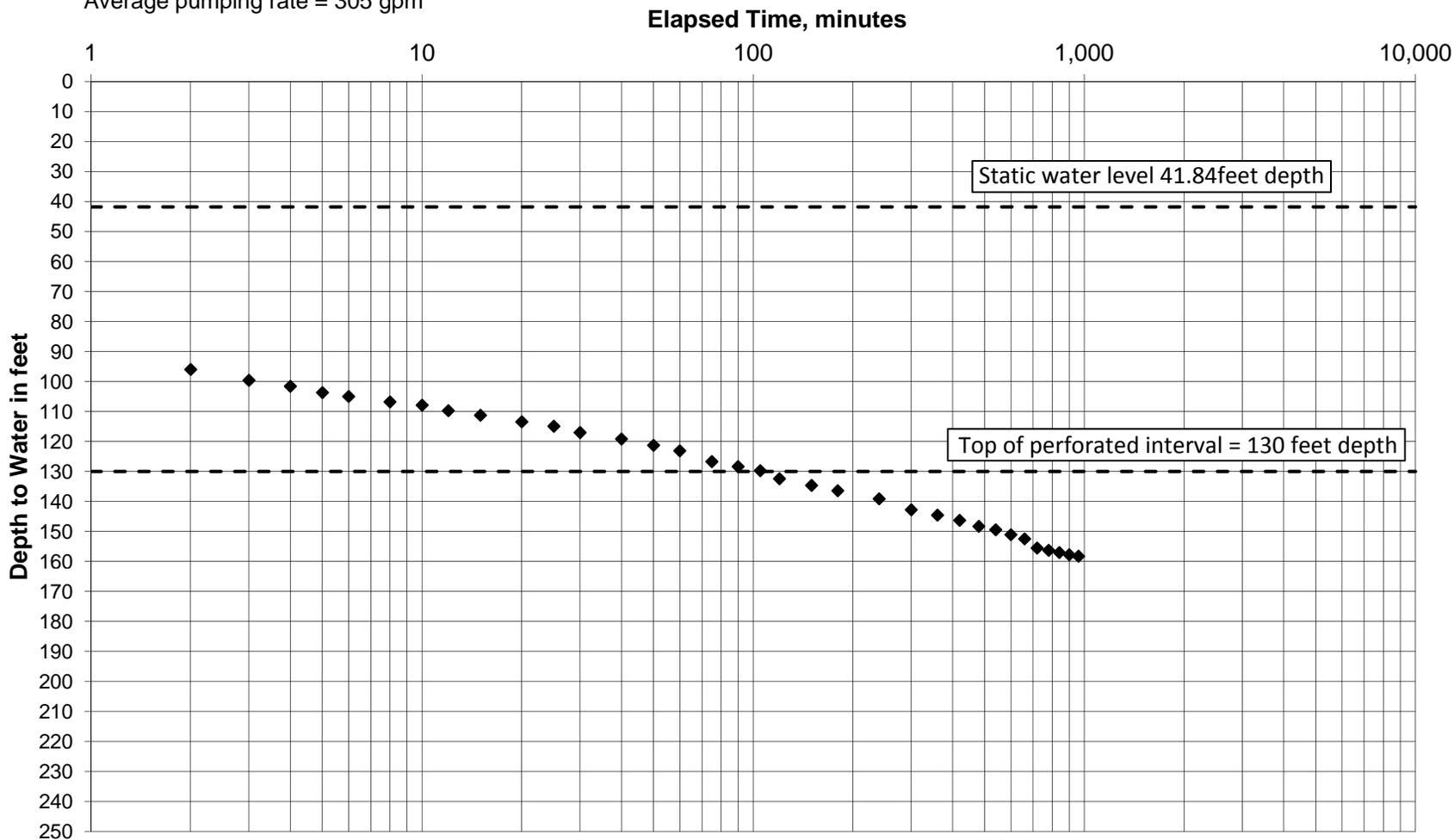
Perforated interval:
130 to 310 feet
390 to 430 feet
510 to 590 feet



**Pumping Test (16-hour) North Fork Ranch Well CHG-2014-7
Grapevine Capital Partners
July 8, 2015**

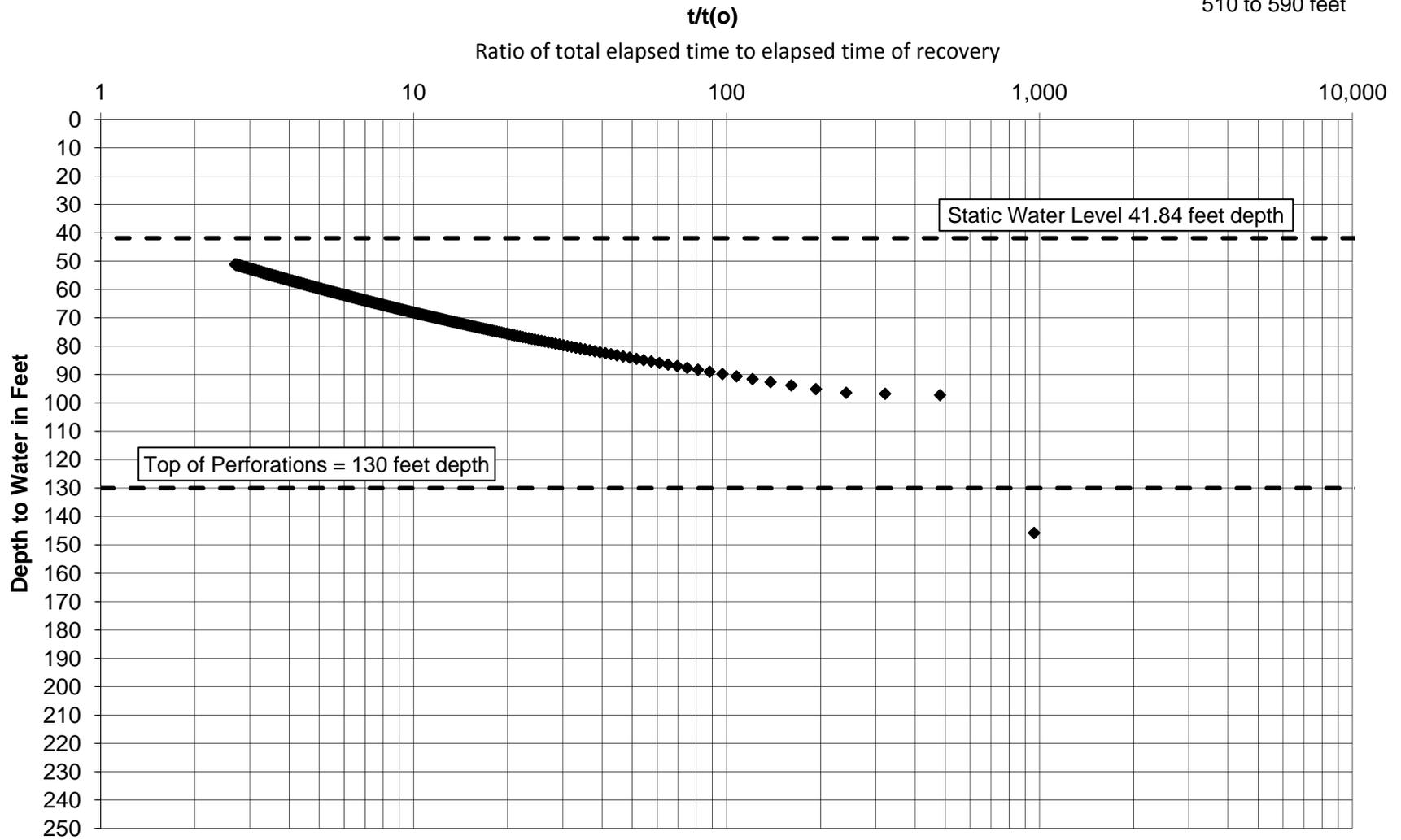
Perforated interval:
130 to 310 feet
390 to 430 feet
510 to 590 feet

Static Water Level = 41.84 feet below top of casing
Average pumping rate = 305 gpm



Recovery Test, North Fork Ranch Well CHG-2014-7
Grapevine Capital Partners
July 8, 2015

Perforated interval :
130 to 310 feet
390 to 430 feet
510 to 590 feet



Pumping Test (Step Test), North Fork Ranch CHG-2014-7

| Day | Time | Elapsed Time | Depth to Water* | Drawdown | Recorded Pumping Rate | meter |
|------------|-------------|---------------------|------------------------|-----------------|------------------------------|--------------|
| Mo./Day/Yr | hr:min | minutes | feet | feet | gallons per minute | AF |
| 7/7/15 | 10:50 | 0 | 37.9 | 0 | | 30.5233 |
| | 10:51 | 1 | 80.8 | 42.9 | 250 | |
| | 10:52 | 2 | 83.8 | 45.9 | 249 | |
| | 10:53 | 3 | 85.1 | 47.2 | 240 | |
| | 10:54 | 4 | 86.0 | 48.1 | 255 | |
| | 10:55 | 5 | 86.9 | 49.0 | 246 | |
| | 10:56 | 6 | 87.5 | 49.6 | 247 | |
| | 10:58 | 8 | 88.7 | 50.8 | 241 | |
| | 11:00 | 10 | 91.9 | 54.0 | 248 | |
| | 11:02 | 12 | 92.7 | 54.8 | 253 | |
| | 11:05 | 15 | 94.0 | 56.1 | 254 | |
| | 11:10 | 20 | 96.5 | 58.6 | 255 | |
| | 11:15 | 25 | 97.8 | 59.9 | 251 | |
| | 11:20 | 30 | 99.0 | 61.1 | 253 | |
| | 11:30 | 40 | 101.6 | 63.7 | 253 | |
| | 11:50 | 60 | 105.5 | 67.6 | 252 | 30.5693 |
| | 11:51 | 61 | 119.8 | 81.9 | 354 | |
| | 11:52 | 62 | 121.6 | 83.7 | 358 | |
| | 11:53 | 63 | 122.8 | 84.9 | 355 | |
| | 11:54 | 64 | 124.5 | 86.6 | 351 | |
| | 11:55 | 65 | 125.4 | 87.5 | 349 | |
| | 11:56 | 66 | 126.2 | 88.3 | 355 | |
| | 11:58 | 68 | 126.9 | 89.0 | 354 | |
| | 12:00 | 70 | 127.9 | 90.0 | 347 | |
| | 12:02 | 72 | 128.7 | 90.8 | 358 | |
| | 12:05 | 75 | 129.7 | 91.8 | 356 | |
| | 12:10 | 80 | 130.8 | 92.9 | 356 | |
| | 12:15 | 85 | 131.6 | 93.7 | 351 | |
| | 12:20 | 90 | 132.5 | 94.6 | 356 | |
| | 12:30 | 100 | 136.8 | 98.9 | 354 | |
| | 12:40 | 110 | 138.3 | 100.4 | 355 | |
| | 12:50 | 120 | 139.7 | 101.8 | 366 | 30.6326 |
| | 12:51 | 121 | 147.9 | 110.0 | 454 | |
| | 12:52 | 122 | 153.2 | 115.3 | 459 | |
| | 12:53 | 123 | 158.5 | 120.6 | 461 | |
| | 12:54 | 124 | 159.6 | 121.7 | 445 | |
| | 12:55 | 125 | 161.1 | 123.2 | 444 | |
| | 12:56 | 126 | 161.4 | 123.5 | 440 | |
| | 12:58 | 128 | 163.8 | 125.9 | 463 | |
| | 13:00 | 130 | 166.6 | 128.7 | 439 | |
| | 13:02 | 132 | 167.5 | 129.6 | 454 | |
| | 13:05 | 135 | 168.8 | 130.9 | 444 | |
| | 13:10 | 140 | 170.0 | 132.1 | 450 | |
| | 13:15 | 145 | 171.2 | 133.3 | 453 | |
| | 13:20 | 150 | 172.1 | 134.2 | 446 | |
| | 13:30 | 160 | 173.9 | 136.0 | 468 | |
| | 13:40 | 170 | 175.4 | 137.5 | 460 | |
| | 13:50 | 180 | 176.6 | 138.7 | 460 | 30.7148 |
| | 13:51 | 181 | 187.8 | 149.9 | 558 | |
| | 13:52 | 182 | 191.3 | 153.4 | 530 | |
| | 13:53 | 183 | 197.8 | 159.9 | 579 | |
| | 13:54 | 184 | 201.0 | 163.1 | 547 | |
| | 13:55 | 185 | 202.4 | 164.5 | 562 | |
| | 13:56 | 186 | 203.1 | 165.2 | 558 | |
| | 13:58 | 188 | 205.5 | 167.6 | 547 | |
| | 14:00 | 190 | 205.7 | 167.8 | 559 | |
| | 14:02 | 192 | 206.3 | 168.4 | 542 | |
| | 14:05 | 195 | 208.5 | 170.6 | 554 | |
| | 14:10 | 200 | 211.2 | 173.3 | 560 | |
| | 14:15 | 205 | 212.4 | 174.5 | 561 | |
| | 14:20 | 210 | 213.5 | 175.6 | 554 | |
| | 14:30 | 220 | 221.3 | 183.4 | 575 | |
| | 14:40 | 230 | 223.4 | 185.5 | 551 | |
| | 14:50 | 240 | 225.1 | 187.2 | 565 | 30.8157 |

Pumping Test (16-hour) North Fork Ranch Well CHG-2014-7

| Day | Time | Elapsed Time | Depth to Water | Drawdown | Totalizer | Rate |
|------------|-------------|---------------------|-----------------------|-----------------|------------------|-------------|
| Mo./Day/Yr | hr:min | minutes | feet | feet | Acre-Feet | GPM |
| 7/8/15 | 6:05 | 0 | 41.84 | 0.00 | 30.8157 | |
| | 6:07 | 2 | 96 | 54.16 | | |
| | 6:08 | 3 | 99.6 | 57.76 | | |
| | 6:09 | 4 | 101.60 | 59.76 | | |
| | 6:10 | 5 | 103.70 | 61.86 | | |
| | 6:11 | 6 | 105.00 | 63.16 | | |
| | 6:13 | 8 | 106.80 | 64.96 | | |
| | 6:15 | 10 | 107.90 | 66.06 | 30.8254 | 316.1 |
| | 6:17 | 12 | 109.75 | 67.91 | | |
| | 6:20 | 15 | 111.25 | 69.41 | | |
| | 6:25 | 20 | 113.44 | 71.60 | 30.8348 | 306.3 |
| | 6:30 | 25 | 114.92 | 73.08 | | |
| | 6:35 | 30 | 117.02 | 75.18 | 30.8440 | 299.8 |
| | 6:45 | 40 | 119.18 | 77.34 | 30.8538 | 319.3 |
| | 6:55 | 50 | 121.27 | 79.43 | | |
| | 7:05 | 60 | 123.10 | 81.26 | 30.8719 | 294.9 |
| | 7:20 | 75 | 126.70 | 84.86 | 30.8860 | 306.3 |
| | 7:35 | 90 | 128.35 | 86.51 | 30.9000 | 305.2 |
| | 7:50 | 105 | 129.73 | 87.89 | 30.9139 | 302.0 |
| | 8:05 | 120 | 132.41 | 90.57 | 30.9283 | 312.8 |
| | 8:35 | 150 | 134.64 | 92.80 | 30.9577 | 319.3 |
| | 9:05 | 180 | 136.40 | 94.56 | 30.9862 | 309.6 |
| | 10:05 | 240 | 139.11 | 97.27 | 31.0412 | 298.7 |
| | 11:05 | 300 | 142.75 | 100.91 | 31.0976 | 306.3 |
| | 12:05 | 360 | 144.55 | 102.71 | 31.1536 | 304.1 |
| | 13:05 | 420 | 146.27 | 104.43 | 31.2096 | 304.1 |
| | 14:05 | 480 | 148.28 | 106.44 | 31.2663 | 307.9 |
| | 15:05 | 540 | 149.40 | 107.56 | 31.3206 | 294.9 |
| | 16:05 | 600 | 151.05 | 109.21 | 31.3766 | 304.1 |
| | 17:05 | 660 | 152.45 | 110.61 | 31.4320 | 300.9 |
| | 18:05 | 720 | 155.50 | 113.66 | 31.4893 | 311.2 |
| | 19:05 | 780 | 156.25 | 114.41 | 31.5454 | 304.7 |
| | 20:05 | 840 | 157.00 | 115.16 | 31.6018 | 306.3 |
| | 21:05 | 900 | 157.73 | 115.89 | 31.6584 | 307.4 |
| | 22:05 | 960 | 158.24 | 116.40 | 31.7142 | 303.0 |

305 ave



July 22, 2015
Cleath-Harris Geologists
 Attn: Spencer Harris
 71 Zaca Lane
 Suite 140
 San Luis Obispo, CA 93401
 Description : CHG-2014-07
 Project : North Fork Ranch

Lab ID : CC 1582379-001
 Customer ID : 8-514
 Sampled On : July 8, 2015
 Sampled By : Bryce Pfeifle
 Received On : July 8, 2015
 Matrix : Ground Water

Grape Irrigation Suitability Analysis

| Test Description | Result | | | | Graphical Results Presentation | | | | |
|-------------------------|--------|-------|-------|------------|--------------------------------|------------------|------------------|--------------------|---|
| | mg/L | Meq/L | % Meq | Lbs/AF | Good | Possible Problem | Moderate Problem | Increasing Problem | Severe Problem |
| Cations | | | | | | | | | |
| Calcium | 95 | 4.7 | 35 | 260 | ** | | | | |
| Magnesium | 45 | 3.7 | 27 | 120 | ** | | | | |
| Potassium | 4 | 0.1 | 1 | 11 | ** | | | | |
| Sodium | 118 | 5.1 | 38 | 320 | | | | | |
| Anions | | | | | | | | | |
| Carbonate | < 10 | 0 | 0 | 0 | | | | | |
| Bicarbonate | 210 | 3.4 | 26 | 570 | ** | | | | |
| Sulfate | 390 | 8.1 | 62 | 1100 | ** | | | | |
| Chloride | 56 | 1.6 | 12 | 150 | | | | | |
| Nitrate | < 0.5 | 0 | 0 | 0 | | | | | |
| Nitrate Nitrogen | < 0.1 | | | 0 | | | | | |
| Fluoride | 0.2 | 0.011 | 0 | 0.5 | | | | | |
| Minor Elements | | | | | | | | | |
| Boron | 0.30 | | | 0.82 | | | | | |
| Copper | < 0.01 | | | 0.00 | | | | | |
| Iron | 0.080 | | | 0.22 | | | | | |
| Manganese | 0.18 | | | 0.49 | | | | | |
| Zinc | 0.050 | | | 0.14 | | | | | |
| TDS by Summation | 918 | | | 2500 | | | | | |
| Other | | | | | | | | | |
| pH | 7.5 | | | units | | | | | |
| E. C. | 1.30 | | | dS/m | | | | | |
| SAR | 2.5 | | | | | | | | |
| Crop Suitability | | | | | | | | | |
| No Amendments | Fairly | | Good | | | | | | |
| With Amendments | Good | | | | | | | | |
| Amendments | | | | | | | | | |
| Gypsum Requirement | 0.03 | | | Tons/AF | | | | | |
| Sulfuric Acid (98%) | 12 | | | oz/1000Gal | | | | | Or 29 oz/1000Gal of urea Sulfuric Acid (15/49). |
| Leaching Requirement | 8.8 | | | % | | | | | |

Good Problem

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

** Used in various calculations; mg/L = Milligrams Per Liter (ppm) meq/L = Milliequivalents Per Liter



July 22, 2015

Cleath-Harris Geologists

Lab ID : CC 1582379-001

Customer ID : 8-514

Description : CHG-2014-07

Micro Irrigation System Plugging Hazard

| Test Description | Result | | Graphical Results Presentation | | |
|------------------------|-----------|-------|--------------------------------|----------|--------|
| | | | Slight | Moderate | Severe |
| Chemical | | | | | |
| Manganese | 0.18 | mg/L | | | |
| Iron | 0.08 | mg/L | | | |
| TDS by Summation | 918 | mg/L | | | |
| No Amendments | | | | | |
| pH | 7.5 | units | | | |
| Alkalinity (As CaCO3) | 170 | mg/L | | | |
| Total Hardness | 422 | mg/L | | | |
| With Amendments | | | | | |
| Alkalinity (As CaCO3) | 34 | mg/L | | | |
| Total Hardness | 34 | mg/L | | | |
| pH | 5.4 - 6.7 | units | | | |

Good Problem

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

Water Amendments Application Notes:

The Amendments recommended on the previous pages include:

Gypsum:

This should be applied at least once a year to the irrigated soil surface area. Gypsum can also be applied in smaller quantities in the irrigation water. Apply the smaller (bracketed) amount of gypsum when also applying the recommended amount of Sulfuric Acid and the larger amount when applying only Gypsum.

Sulfuric Acid:

These products should be applied as needed to prevent emitter plugging in micro irrigation systems and/or as a soil amendment to adjust soil pH to improve nutrient availability and to facilitate leaching of salts. Please exercise caution when using this material as excesses may be harmful to the system and/or the plants being irrigated. The reported Acid requirement is intended to remove approximately 80 % of the alkalinity. The final pH should range from 5.4 to 6.7. We recommend a field pH determination to confirm that the pH you designate is being achieved. This application is based upon the use of a 98% Sulfuric Acid product. The application of Urea Sulfuric Acid is based upon the use of a product that contains 15% Urea (1.89 lbs Nitrogen), 49% Sulfuric Acid and has a specific gravity of 1.52 at 68 °F.

Guidelines for the above interpretations are sourced from USDA & U.C. Cooperative Extension Service publications. Please contact us if you have any questions.

FRUIT GROWERS LABORATORY, INC.

Scott Bucy

Scott Bucy, Director of Ag. Services

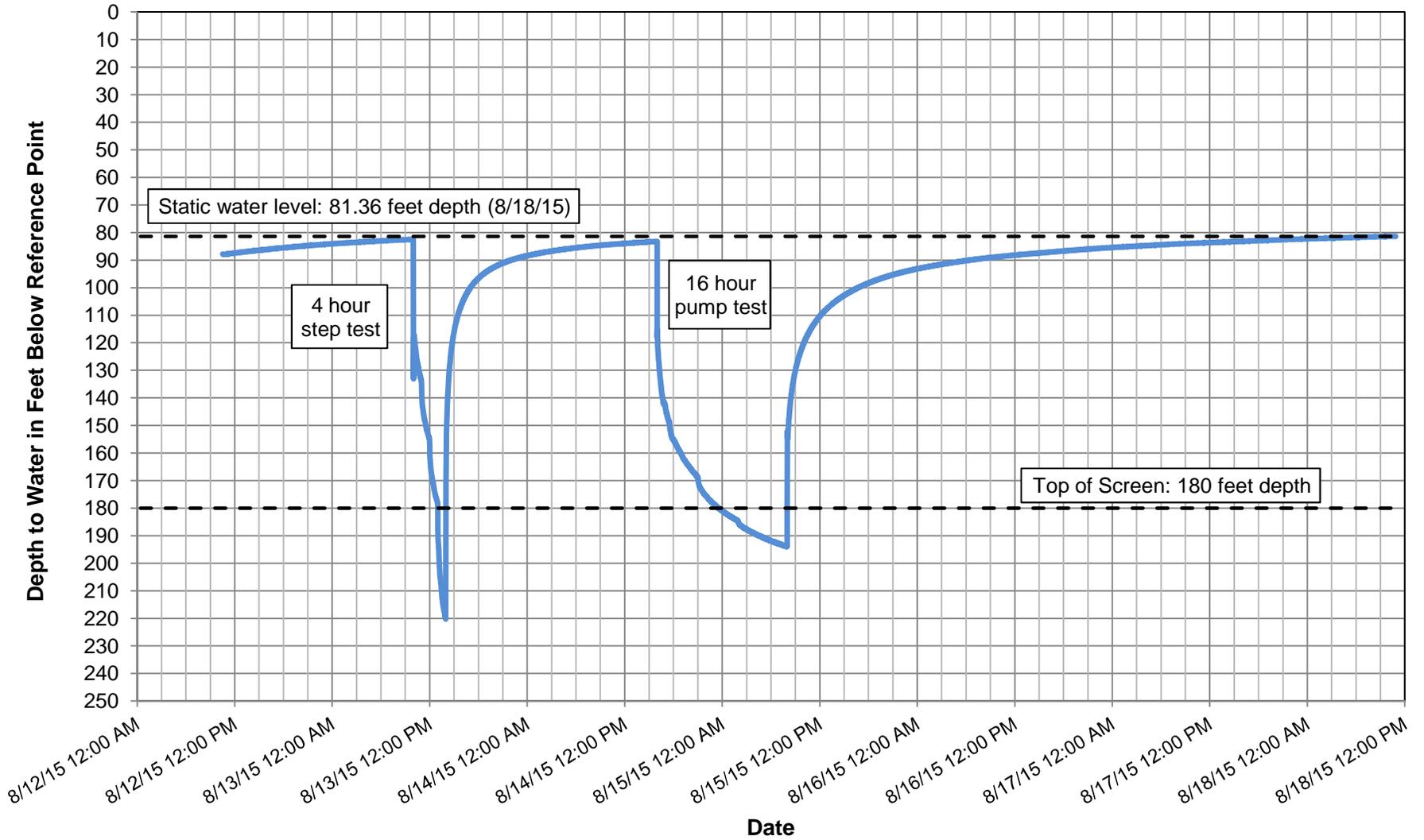
SB1:KDM



Well CHG-2014-12

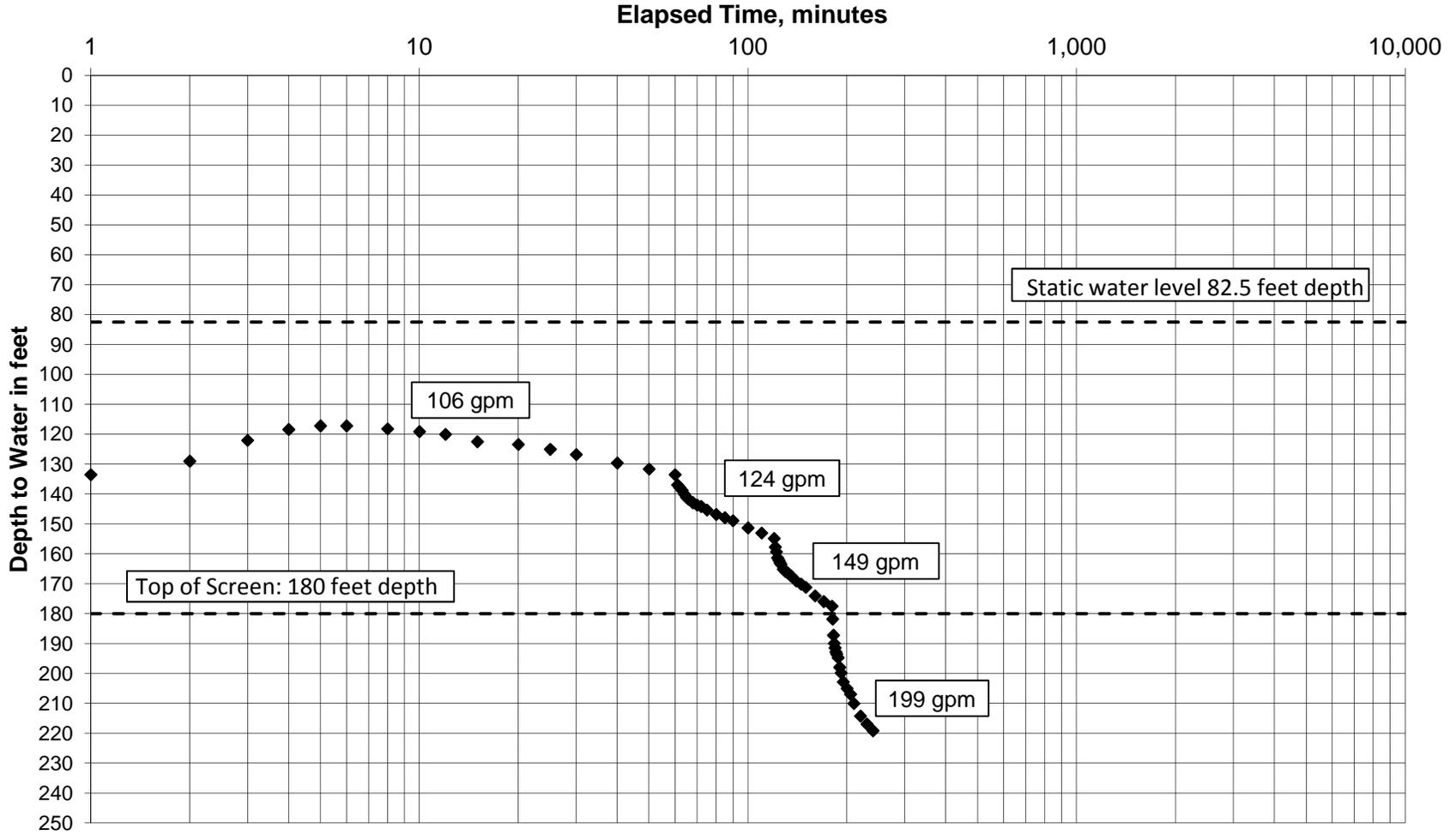
Transducer Chart North Fork Ranch Well CHG-2014-12
Grapevine Capital Partners
August 12 to August 18, 2015

Perforated interval:
180 to 580 feet



StepTest (4-hour) North Fork Ranch Well CHG-2014-12
Grapevine Capital Partners
August 13, 2015

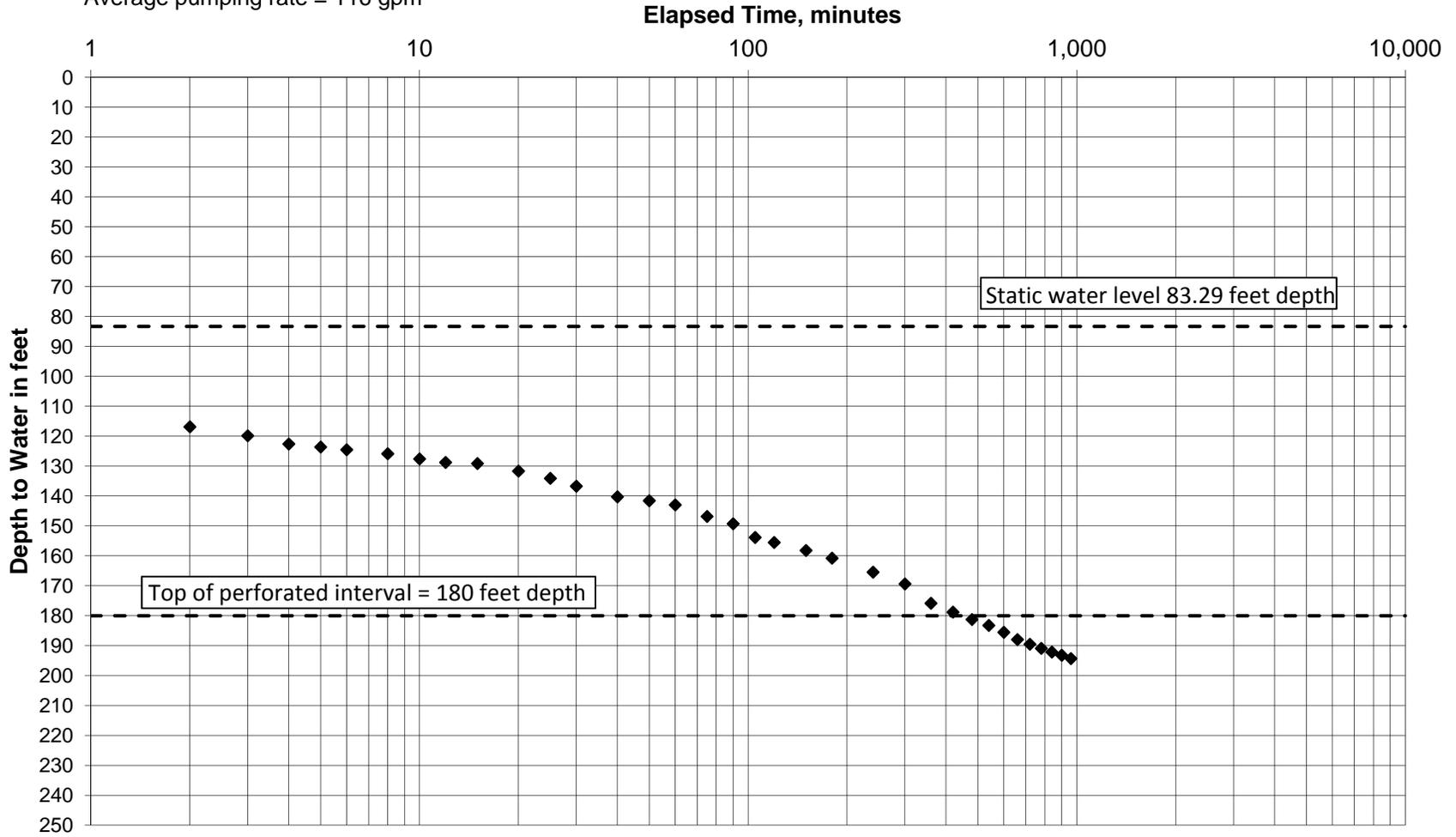
Perforated interval:
180 to 580 feet



Pumping Test (16-hour) North Fork Ranch Well CHG-2014-12
Grapevine Capital Partners
August 14, 2015

Perforated interval:
180 to 580 feet

Static Water Level = 83.29 feet below top of casing
Average pumping rate = 116 gpm



Pumping Test (Step Test), North Fork Ranch CHG-2014-12

| Day | Time | Elapsed Time | Depth to Water* | Drawdown | Recorded Pumping Rate | meter |
|------------|-------------|---------------------|------------------------|-----------------|------------------------------|--------------|
| Mo./Day/Yr | hr:min | minutes | feet | feet | gallons per minute | AF |
| 8/13/15 | 10:00 | 0 | 82.5 | 0 | | 35.8492 |
| | 10:01 | 1 | 133.5 | 51 | 300 | |
| | 10:02 | 2 | 129.0 | 46.5 | 109 | |
| | 10:03 | 3 | 122.0 | 39.5 | 116 | |
| | 10:04 | 4 | 118.4 | 35.9 | 107 | |
| | 10:05 | 5 | 117.2 | 34.7 | 105 | |
| | 10:06 | 6 | 117.2 | 34.7 | 104 | |
| | 10:08 | 8 | 118.2 | 35.7 | 105 | |
| | 10:10 | 10 | 119.1 | 36.6 | 106 | |
| | 10:12 | 12 | 120.0 | 37.5 | 104 | |
| | 10:15 | 15 | 122.5 | 40 | 105 | |
| | 10:20 | 20 | 123.4 | 40.9 | 104 | |
| | 10:25 | 25 | 125.0 | 42.5 | 105 | |
| | 10:30 | 30 | 126.8 | 44.3 | 102 | |
| | 10:40 | 40 | 129.6 | 47.1 | 101 | |
| | 10:50 | 50 | 131.6 | 49.1 | 101 | |
| | 11:00 | 60 | 133.5 | 49.1 | 101 | 35.8687 |
| | 11:01 | 61 | 136.9 | 51.0 | 123 | |
| | 11:02 | 62 | 137.8 | 55.3 | 127 | |
| | 11:03 | 63 | 138.8 | 56.3 | 125 | |
| | 11:04 | 64 | 140.0 | 57.5 | 129 | |
| | 11:05 | 65 | 141.1 | 58.6 | 126 | |
| | 11:06 | 66 | 141.8 | 59.3 | 126 | |
| | 11:08 | 68 | 142.9 | 60.4 | 124 | |
| | 11:10 | 70 | 143.7 | 61.2 | 125 | |
| | 11:12 | 72 | 144.1 | 61.6 | 126 | |
| | 11:15 | 75 | 145.3 | 62.8 | 126 | |
| | 11:20 | 80 | 146.8 | 64.3 | 124 | |
| | 11:25 | 85 | 147.9 | 65.4 | 126 | |
| | 11:30 | 90 | 148.9 | 66.4 | 125 | |
| | 11:40 | 100 | 151.3 | 68.8 | 125 | |
| | 11:50 | 110 | 153.0 | 70.5 | 127 | |
| | 12:00 | 120 | 154.8 | 72.3 | 125 | 35.8915 |
| | 12:01 | 121 | 157.7 | 75.2 | 148 | |
| | 12:02 | 122 | 159.3 | 76.8 | 149 | |
| | 12:03 | 123 | 161.3 | 78.8 | 152 | |
| | 12:04 | 124 | 162.1 | 79.6 | 153 | |
| | 12:05 | 125 | 162.9 | 80.4 | 151 | |
| | 12:06 | 126 | 163.5 | 81.0 | 151 | |
| | 12:08 | 128 | 165.1 | 82.6 | 153 | |
| | 12:10 | 130 | 165.9 | 83.4 | 152 | |
| | 12:12 | 132 | 166.3 | 83.8 | 155 | |
| | 12:15 | 135 | 167.3 | 84.8 | 152 | |
| | 12:20 | 140 | 169 | 86.5 | 153 | |
| | 12:25 | 145 | 170.1 | 87.6 | 151 | |
| | 12:30 | 150 | 171.2 | 88.7 | 152 | |
| | 12:40 | 160 | 174 | 91.5 | 152 | |
| | 12:50 | 170 | 175.9 | 93.4 | 152 | |
| | 13:00 | 180 | 177.5 | 95.0 | 151 | 35.9189 |
| | 13:01 | 181 | 181.8 | 99.3 | 200 | |
| | 13:02 | 182 | 187.2 | 104.7 | 210 | |
| | 13:03 | 183 | 189.9 | 107.4 | 202 | |
| | 13:04 | 184 | 191.4 | 108.9 | 201 | |
| | 13:05 | 185 | 192.8 | 110.3 | 205 | |
| | 13:06 | 186 | 193.5 | 111 | 200 | |
| | 13:08 | 188 | 194.7 | 112.2 | 204 | |
| | 13:10 | 190 | 197.9 | 115.4 | 204 | |
| | 13:12 | 192 | 199.8 | 117.3 | 202 | |
| | 13:15 | 195 | 202.8 | 120.3 | 201 | |
| | 13:20 | 200 | 205 | 122.5 | 204 | |
| | 13:25 | 205 | 206.9 | 124.4 | 200 | |
| | 13:30 | 210 | 210 | 127.5 | 202 | |
| | 13:40 | 220 | 214.2 | 131.7 | 201 | |
| | 13:50 | 230 | 216.9 | 134.4 | 200 | |
| | 14:00 | 240 | 219.1 | 136.6 | 202 | 35.9555 |

Pumping Test (16-hour) North Fork Ranch Well CHG-2014-12

| Day | Time | Elapsed Time | Depth to Water | Drawdown | Totalizer | Rate |
|------------|-------------|---------------------|-----------------------|-----------------|------------------|--------------------|
| Mo./Day/Yr | hr:min | minutes | feet | feet | Acre-Feet | GPM |
| 8/14/15 | 4:00 | 0 | 83.29 | 0.00 | 35.9555 | |
| | 4:01 | 1 | 117.90 | 34.61 | | |
| | 4:02 | 2 | 116.85 | 33.56 | | |
| | 4:03 | 3 | 119.84 | 36.55 | | |
| | 4:04 | 4 | 122.58 | 39.29 | | |
| | 4:05 | 5 | 123.60 | 40.31 | | |
| | 4:06 | 6 | 124.50 | 41.21 | | |
| | 4:08 | 8 | 125.85 | 42.56 | | |
| | 4:10 | 10 | 127.58 | 44.29 | 35.9606 | 166.2 |
| | 4:12 | 12 | 128.76 | 45.47 | | |
| | 4:15 | 15 | 129.13 | 45.84 | | |
| | 4:20 | 20 | 131.65 | 48.36 | | |
| | 4:25 | 25 | 134.07 | 50.78 | | |
| | 4:30 | 30 | 136.70 | 53.41 | 35.9672 | 107.5 |
| | 4:40 | 40 | 140.25 | 56.96 | | |
| | 4:50 | 50 | 141.55 | 58.26 | | |
| | 5:00 | 60 | 142.95 | 59.66 | 35.9783 | 120.6 |
| | 5:15 | 75 | 146.81 | 63.52 | | |
| | 5:30 | 90 | 149.25 | 65.96 | 35.9887 | 113.0 |
| | 5:45 | 105 | 153.82 | 70.53 | | |
| | 6:00 | 120 | 155.50 | 72.21 | | |
| | 6:30 | 150 | 158.16 | 74.87 | 36.0103 | 117.3 |
| | 7:00 | 180 | 160.75 | 77.46 | 36.0209 | 115.1 |
| | 8:00 | 240 | 165.42 | 82.13 | 36.0421 | 115.1 |
| | 9:00 | 300 | 169.37 | 86.08 | 36.0631 | 114.0 |
| | 10:00 | 360 | 175.82 | 92.53 | 36.0850 | 118.9 |
| | 11:00 | 420 | 178.79 | 95.50 | 36.1068 | 118.4 |
| | 12:00 | 480 | 181.24 | 97.95 | 36.1283 | 116.8 |
| | 13:00 | 540 | 183.23 | 99.94 | 36.1497 | 116.2 |
| | 14:00 | 600 | 185.52 | 102.23 | 36.1709 | 115.1 |
| | 15:00 | 660 | 187.95 | 104.66 | 36.1925 | 117.3 |
| | 16:00 | 720 | 189.52 | 106.23 | 36.2139 | 116.2 |
| | 17:00 | 780 | 190.90 | 107.61 | 36.2353 | 116.2 |
| | 18:00 | 840 | 192.14 | 108.85 | 36.2563 | 114.0 |
| | 19:00 | 900 | 193.20 | 109.91 | 36.2776 | 115.7 |
| | 20:00 | 960 | 194.31 | 111.02 | 36.2987 | 114.6 |
| | | | | | | 116 average |

August 26, 2015
Cleath-Harris Geologists
 Attn: Spencer Harris
 71 Zaca Lane
 Suite 140
 San Luis Obispo, CA 93401
 Description : CHG-2014-12
 Project : North Forks Ranch

Lab ID : CC 1582882-001
 Customer ID : 8-514
 Sampled On : August 14, 2015
 Sampled By : Bryce Pfeifle / Spen
 Received On : August 17, 2015
 Matrix : Ground Water

Grape Irrigation Suitability Analysis

| Test Description | Result | | | | Graphical Results Presentation | | | | |
|-------------------------|--------|-------|-------|------------|--|------------------|------------------|--------------------|----------------|
| | mg/L | Meq/L | % Meq | Lbs/AF | Good | Possible Problem | Moderate Problem | Increasing Problem | Severe Problem |
| Cations | | | | | | | | | |
| Calcium | 35 | 1.7 | 24 | 95 | ** | | | | |
| Magnesium | 18 | 1.5 | 20 | 49 | ** | | | | |
| Potassium | 3 | 0.077 | 1 | 8 | ** | | | | |
| Sodium | 93 | 4 | 55 | 250 |  | | | | |
| Anions | | | | | | | | | |
| Carbonate | < 10 | 0 | 0 | 0 |  | | | | |
| Bicarbonate | 150 | 2.5 | 39 | 410 | ** | | | | |
| Sulfate | 153 | 3.2 | 50 | 420 | ** | | | | |
| Chloride | 18 | 0.51 | 8 | 49 |  | | | | |
| Nitrate | 9.7 | 0.16 | 2 | 26 |  | | | | |
| Nitrate Nitrogen | 2.2 | | | 6 |  | | | | |
| Fluoride | 0.3 | 0.016 | 0 | 0.8 |  | | | | |
| Minor Elements | | | | | | | | | |
| Boron | 0.20 | | | 0.54 |  | | | | |
| Copper | 0.010 | | | 0.027 |  | | | | |
| Iron | 0.090 | | | 0.24 |  | | | | |
| Manganese | < 0.01 | | | 0.00 |  | | | | |
| Zinc | 0.14 | | | 0.38 |  | | | | |
| TDS by Summation | 480 | | | 1300 |  | | | | |
| Other | | | | | | | | | |
| pH | 7.7 | | | units |  | | | | |
| E. C. | 0.725 | | | dS/m |  | | | | |
| SAR | 3.2 | | | |  | | | | |
| Crop Suitability | | | | | | | | | |
| No Amendments | Fairly | | Good | |  | | | | |
| With Amendments | Good | | | |  | | | | |
| Amendments | | | | | | | | | |
| Gypsum Requirement | 0.4 | | | Tons/AF | | | | | |
| Sulfuric Acid (98%) | 8.4 | | | oz/1000Gal | | | | | |
| Leaching Requirement | 4.7 | | | % | | | | | |

Good  Problem

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

** Used in various calculations; mg/L = Milligrams Per Liter (ppm) meq/L = Milliequivalents Per Liter



August 26, 2015

Cleath-Harris Geologists

Lab ID : CC 1582882-001

Customer ID : 8-514

Description : CHG-2014-12

Micro Irrigation System Plugging Hazard

| Test Description | Result | Graphical Results Presentation | | |
|------------------------|-----------------|--|----------|--------|
| | | Slight | Moderate | Severe |
| Chemical | | | | |
| Manganese | < 0.01 mg/L |  | | |
| Iron | 0.09 mg/L |  | | |
| TDS by Summation | 480 mg/L |  | | |
| No Amendments | | | | |
| pH | 7.7 units |  | | |
| Alkalinity (As CaCO3) | 120 mg/L |  | | |
| Total Hardness | 161 mg/L |  | | |
| With Amendments | | | | |
| Alkalinity (As CaCO3) | 24 mg/L |  | | |
| Total Hardness | 24 mg/L |  | | |
| pH | 5.4 - 6.7 units |  | | |

Good  Problem

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

Water Amendments Application Notes:

The Amendments recommended on the previous pages include:

Gypsum:

This should be applied at least once a year to the irrigated soil surface area. Gypsum can also be applied in smaller quantities in the irrigation water. Apply the smaller (bracketed) amount of gypsum when also applying the recommended amount of Sulfuric Acid and the larger amount when applying only Gypsum.

Sulfuric Acid:

These products should be applied as needed to prevent emitter plugging in micro irrigation systems and/or as a soil amendment to adjust soil pH to improve nutrient availability and to facilitate leaching of salts. Please exercise caution when using this material as excesses may be harmful to the system and/or the plants being irrigated. The reported Acid requirement is intended to remove approximately 80 % of the alkalinity. The final pH should range from 5.4 to 6.7. We recommend a field pH determination to confirm that the pH you designate is being achieved. This application is based upon the use of a 98% Sulfuric Acid product. The application of Urea Sulfuric Acid is based upon the use of a product that contains 15% Urea (1.89 lbs Nitrogen), 49% Sulfuric Acid and has a specific gravity of 1.52 at 68 °F.

Guidelines for the above interpretations are sourced from USDA & U.C. Cooperative Extension Service publications. Please contact us if you have any questions.

FRUIT GROWERS LABORATORY, INC.

Scott Bucy

Scott Bucy, Director of Ag. Services

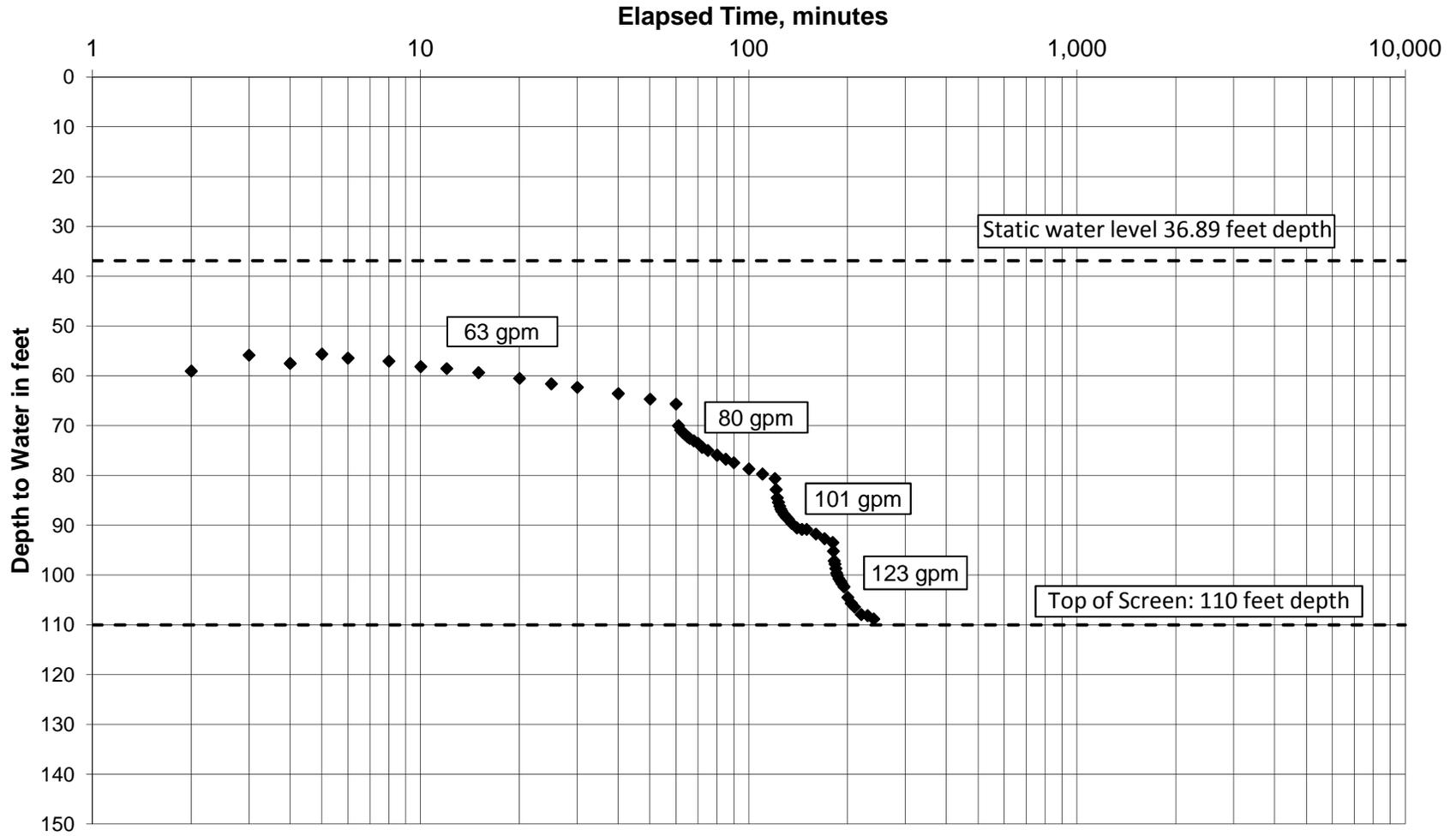
SB1:KDM



Well CHG-2014-13

StepTest (4-hour) North Fork Ranch Well CHG-2014-13
Grapevine Capital Partners
November 4, 2015

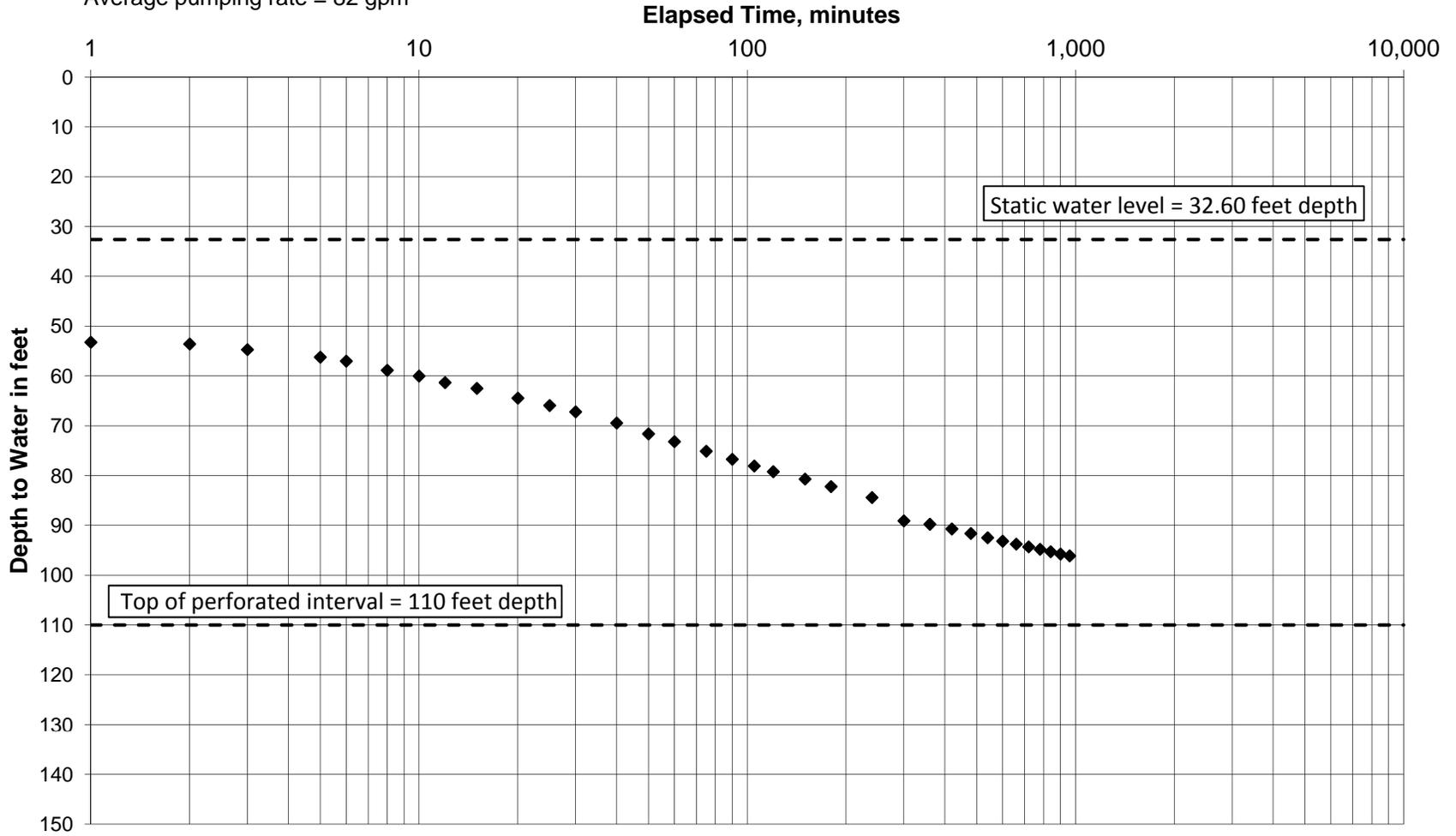
Perforated interval:
110 to 370 feet



Pumping Test (16-hour) North Fork Ranch Well CHG-2014-13
Grapevine Capital Partners
November 6, 2015

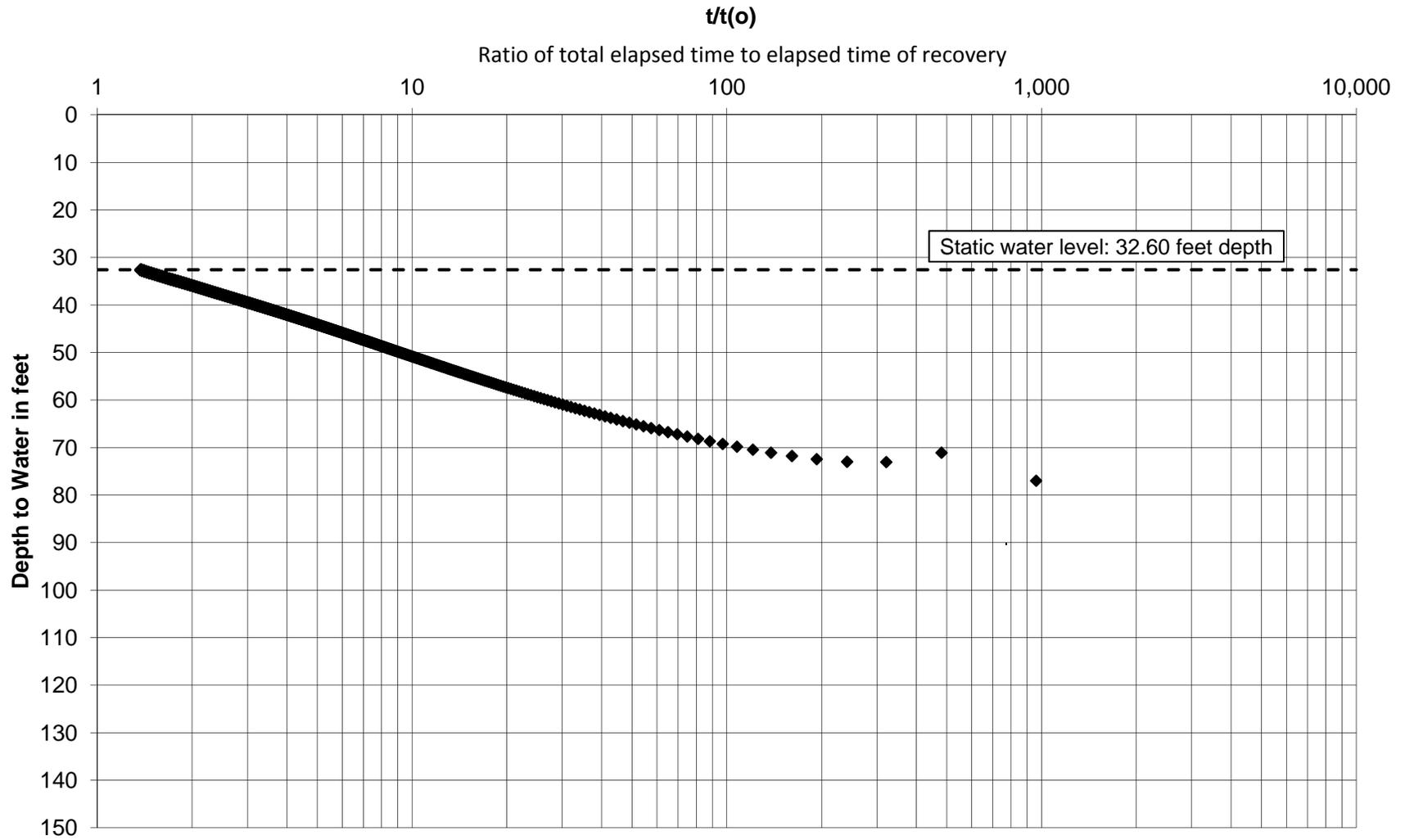
Perforated interval:
110 to 370 feet

Static Water Level = 32.60 feet below top of casing
Average pumping rate = 82 gpm



Recovery Test, North Forks Ranch Well CHG-2014-13
Grapevine Capital Partners
November 6 to 8, 2015

Perforated interval:
110 to 370 feet



Pumping Test (Step Test), North Fork Ranch CHG-2014-13

| Day | Time | Elapsed Time | Depth to Water* | Drawdown | Recorded Pumping Rate | meter |
|------------|-------------|---------------------|------------------------|-----------------|------------------------------|--------------|
| Mo./Day/Yr | hr:min | minutes | feet | feet | gallons per minute | AF |
| 11/4/15 | 11:00 | 0 | 36.89 | 0 | | 43.2435 |
| | 11:01 | 1 | | | | |
| | 11:02 | 2 | 59.04 | 22.15 | 70 | |
| | 11:03 | 3 | 55.85 | 18.96 | 52 | |
| | 11:04 | 4 | 57.50 | 20.61 | 72 | |
| | 11:05 | 5 | 55.61 | 18.7 | 65 | |
| | 11:06 | 6 | 56.42 | 19.53 | 60 | |
| | 11:08 | 8 | 57.04 | 20.15 | 60 | |
| | 11:10 | 10 | 58.13 | 21.2 | 62 | |
| | 11:12 | 12 | 58.54 | 21.65 | 62 | |
| | 11:15 | 15 | 59.35 | 22.46 | 61 | |
| | 11:20 | 20 | 60.51 | 23.62 | 61 | |
| | 11:25 | 25 | 61.60 | 24.71 | 62 | |
| | 11:30 | 30 | 62.29 | 25.4 | 62 | |
| | 11:40 | 40 | 63.55 | 26.66 | 61 | |
| | 11:50 | 50 | 64.68 | 27.79 | 61 | |
| | 12:00 | 60 | 65.63 | 27.79 | 61 | 43.2551 |
| | 12:01 | 61 | 70 | 28.7 | 89 | |
| | 12:02 | 62 | 70.9 | 33.99 | 85 | |
| | 12:03 | 63 | 71.4 | 34.55 | 84 | |
| | 12:04 | 64 | 71.8 | 34.91 | 83 | |
| | 12:05 | 65 | 72.2 | 35.34 | 83 | |
| | 12:06 | 66 | 72.5 | 35.65 | 81 | |
| | 12:08 | 68 | 73.1 | 36.2 | 82 | |
| | 12:10 | 70 | 73.6 | 36.7 | 80 | |
| | 12:12 | 72 | 74.3 | 37.45 | 81 | |
| | 12:15 | 75 | 75.0 | 38.1 | 81 | |
| | 12:20 | 80 | 75.9 | 39.04 | 80 | |
| | 12:25 | 85 | 76.7 | 39.83 | 81 | |
| | 12:30 | 90 | 77.4 | 40.54 | 81 | |
| | 12:40 | 100 | 78.7 | 41.82 | 82 | |
| | 12:50 | 110 | 79.7 | 42.82 | 81 | |
| | 13:00 | 120 | 80.6 | 43.72 | 80 | 43.2699 |
| | 13:01 | 121 | 82.83 | 45.9 | 98 | |
| | 13:02 | 122 | 84.49 | 47.6 | 102 | |
| | 13:03 | 123 | 85.39 | 48.5 | 101 | |
| | 13:04 | 124 | 86.15 | 49.3 | 103 | |
| | 13:05 | 125 | 86.77 | 49.9 | 104 | |
| | 13:06 | 126 | 87.2 | 50.3 | 102 | |
| | 13:08 | 128 | 87.83 | 50.9 | 102 | |
| | 13:10 | 130 | 88.38 | 51.5 | 101 | |
| | 13:12 | 132 | 88.77 | 51.9 | 102 | |
| | 13:15 | 135 | 89.62 | 52.7 | 103 | |
| | 13:20 | 140 | 90.51 | 53.6 | 103 | |
| | 13:25 | 145 | 90.8 | 53.9 | 102 | |
| | 13:30 | 150 | 90.8 | 53.9 | 101 | |
| | 13:40 | 160 | 91.76 | 54.9 | 101 | |
| | 13:50 | 170 | 92.67 | 55.8 | 102 | |
| | 14:00 | 180 | 93.47 | 56.6 | 102 | 43.2885 |
| | 14:01 | 181 | 95.21 | 58.32 | 119 | |
| | 14:02 | 182 | 97.1 | 60.25 | 125 | |
| | 14:03 | 183 | 97.8 | 60.89 | 118 | |
| | 14:04 | 184 | 98.68 | 61.79 | 121 | |
| | 14:05 | 185 | 99.61 | 62.72 | 123 | |
| | 14:06 | 186 | 100.08 | 63.19 | 122 | |
| | 14:08 | 188 | 100.75 | 63.86 | 122 | |
| | 14:10 | 190 | 101.21 | 64.32 | 120 | |
| | 14:12 | 192 | 101.72 | 64.83 | 121 | |
| | 14:15 | 195 | 102.35 | 65.46 | 120 | |
| | 14:20 | 200 | 104.46 | 67.57 | 123 | |
| | 14:25 | 205 | 105.65 | 68.76 | 123 | |
| | 14:30 | 210 | 106.45 | 69.56 | 124 | |
| | 14:40 | 220 | 107.93 | 71.04 | 123 | |
| | 14:50 | 230 | 108.13 | 71.24 | 122 | |
| | 15:00 | 240 | 108.81 | 71.92 | 121 | 43.3111 |

Pumping Test (16-hour) North Fork Ranch Well CHG-2014-13

| Day | Time | Elapsed Time | Depth to Water | Drawdown | Totalizer | Rate |
|------------|-------------|---------------------|-----------------------|-----------------|------------------|----------------------|
| Mo./Day/Yr | hr:min | minutes | feet | feet | Acre-Feet | GPM |
| 11/6/15 | 6:00 | 0 | 32.60 | 0.00 | 43.3112 | |
| | 6:01 | 1 | 53.23 | 20.63 | | |
| | 6:02 | 2 | 53.58 | 20.98 | | |
| | 6:03 | 3 | 54.71 | 22.11 | | |
| | 6:05 | 5 | 56.23 | 23.63 | | |
| | 6:06 | 6 | 57.02 | 24.42 | | |
| | 6:08 | 8 | 58.86 | 26.26 | 43.3134 | 89.6 |
| | 6:10 | 10 | 60.02 | 27.42 | | |
| | 6:12 | 12 | 61.33 | 28.73 | 43.3143 | 73.3 |
| | 6:15 | 15 | 62.49 | 29.89 | | |
| | 6:20 | 20 | 64.46 | 31.86 | | |
| | 6:25 | 25 | 65.93 | 33.33 | 43.3177 | 85.2 |
| | 6:30 | 30 | 67.21 | 34.61 | 43.3189 | 78.2 |
| | 6:40 | 40 | 69.45 | 36.85 | | |
| | 6:50 | 50 | 71.63 | 39.03 | 43.32410 | 84.7 |
| | 7:00 | 60 | 73.19 | 40.59 | 43.3264 | 74.9 |
| | 7:15 | 75 | 75.11 | 42.51 | | |
| | 7:30 | 90 | 76.73 | 44.13 | 43.3340 | 82.5 |
| | 7:45 | 105 | 78.08 | 45.48 | 43.3378 | 82.5 |
| | 8:00 | 120 | 79.22 | 46.62 | 43.3415 | 81.5 |
| | 8:30 | 150 | 80.71 | 48.11 | 43.3490 | 81.5 |
| | 9:00 | 180 | 82.21 | 49.61 | 43.3565 | 81.5 |
| | 10:00 | 240 | 84.41 | 51.81 | 43.3714 | 80.9 |
| | 11:00 | 300 | 89.09 | 56.49 | 43.3874 | 86.9 |
| | 12:00 | 360 | 89.77 | 57.17 | 43.4029 | 84.2 |
| | 13:00 | 420 | 90.71 | 58.11 | 43.4182 | 83.1 |
| | 14:00 | 480 | 91.63 | 59.03 | 43.4336 | 83.6 |
| | 15:00 | 540 | 92.48 | 59.88 | 43.4489 | 83.1 |
| | 16:00 | 600 | 93.17 | 60.57 | 43.4641 | 82.5 |
| | 17:00 | 660 | 93.76 | 61.16 | 43.4794 | 83.1 |
| | 18:00 | 720 | 94.31 | 61.71 | 43.4946 | 82.5 |
| | 19:00 | 780 | 94.80 | 62.20 | 43.5097 | 82.0 |
| | 20:00 | 840 | 95.29 | 62.69 | 43.5249 | 82.5 |
| | 21:00 | 900 | 95.75 | 63.15 | 43.5401 | 82.5 |
| | 22:00 | 960 | 96.12 | 63.52 | 43.5552 | 82.0 |
| | | | | | | 82.28 average |

December 1, 2015
Cleath-Harris Geologists
 Attn: Spencer Harris
 71 Zaca Lane
 Suite 140
 San Luis Obispo, CA 93401
 Description : CHG-2014-13
 Project : Ground Water Monitoring

Lab ID : CC 1583799-001
 Customer ID : 8-514
 Sampled On : November 6, 2015
 Sampled By : Andrea Berge
 Received On : November 6, 2015
 Matrix : Ground Water

General Irrigation Suitability Analysis

| Test Description | Result | | | | Graphical Results Presentation | | | | |
|-------------------------|--------|-------|-------|------------|--|------------------|------------------|--------------------|----------------|
| | mg/L | Meq/L | % Meq | Lbs/AF | Good | Possible Problem | Moderate Problem | Increasing Problem | Severe Problem |
| Cations | | | | | | | | | |
| Calcium | 60 | 3 | 30 | 160 | ** | | | | |
| Magnesium | 18 | 1.5 | 15 | 49 | ** | | | | |
| Potassium | 3 | 0.077 | 1 | 8 | ** | | | | |
| Sodium | 122 | 5.3 | 54 | 330 |  | | | | |
| Anions | | | | | | | | | |
| Carbonate | < 10 | 0 | 0 | 0 |  | | | | |
| Bicarbonate | 170 | 2.8 | 30 | 460 | ** | | | | |
| Sulfate | 252 | 5.2 | 57 | 690 | ** | | | | |
| Chloride | 35 | 0.99 | 11 | 95 |  | | | | |
| Nitrate | 13.7 | 0.22 | 2 | 37 |  | | | | |
| Nitrate Nitrogen | 3.1 | | | 8 |  | | | | |
| Fluoride | 0.2 | 0.011 | 0 | 0.5 |  | | | | |
| Minor Elements | | | | | | | | | |
| Boron | 0.20 | | | 0.54 |  | | | | |
| Copper | < 0.01 | | | 0.00 |  | | | | |
| Iron | 0.17 | | | 0.46 |  | | | | |
| Manganese | 0.010 | | | 0.027 |  | | | | |
| Zinc | < 0.02 | | | 0.00 |  | | | | |
| TDS by Summation | 674 | | | 1800 |  | | | | |
| Other | | | | | | | | | |
| pH | 7.6 | | | units |  | | | | |
| E. C. | 0.979 | | | dS/m |  | | | | |
| SAR | 3.5 | | | |  | | | | |
| Crop Suitability | | | | | | | | | |
| No Amendments | Fairly | | Good | |  | | | | |
| With Amendments | Good | | | |  | | | | |
| Amendments | | | | | | | | | |
| Gypsum Requirement | 0.4 | | | Tons/AF | | | | | |
| Sulfuric Acid (98%) | 9.8 | | | oz/1000Gal | | | | | |
| Leaching Requirement | 7.5 | | | % | | | | | |

Good  Problem

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

** Used in various calculations; mg/L = Milligrams Per Liter (ppm) meq/L = Milliequivalents Per Liter



December 1, 2015

Cleath-Harris Geologists

Lab ID : CC 1583799-001

Customer ID : 8-514

Description : CHG-2014-13

Micro Irrigation System Plugging Hazard

| Test Description | Result | Graphical Results Presentation | | |
|------------------------|-----------------|--------------------------------|----------|--------|
| | | Slight | Moderate | Severe |
| Chemical | | | | |
| Manganese | 0.01 mg/L | | | |
| Iron | 0.17 mg/L | | | |
| TDS by Summation | 674 mg/L | | | |
| No Amendments | | | | |
| pH | 7.6 units | | | |
| Alkalinity (As CaCO3) | 140 mg/L | | | |
| Total Hardness | 224 mg/L | | | |
| With Amendments | | | | |
| Alkalinity (As CaCO3) | 28 mg/L | | | |
| Total Hardness | 28 mg/L | | | |
| pH | 5.4 - 6.7 units | | | |

Good Problem

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

Water Amendments Application Notes:

The Amendments recommended on the previous pages include:

Gypsum:

This should be applied at least once a year to the irrigated soil surface area. Gypsum can also be applied in smaller quantities in the irrigation water. Apply the smaller (bracketed) amount of gypsum when also applying the recommended amount of Sulfuric Acid and the larger amount when applying only Gypsum.

Sulfuric Acid:

These products should be applied as needed to prevent emitter plugging in micro irrigation systems and/or as a soil amendment to adjust soil pH to improve nutrient availability and to facilitate leaching of salts. Please exercise caution when using this material as excesses may be harmful to the system and/or the plants being irrigated. The reported Acid requirement is intended to remove approximately 80 % of the alkalinity. The final pH should range from 5.4 to 6.7. We recommend a field pH determination to confirm that the pH you designate is being achieved. This application is based upon the use of a 98% Sulfuric Acid product. The application of Urea Sulfuric Acid is based upon the use of a product that contains 15% Urea (1.89 lbs Nitrogen), 49% Sulfuric Acid and has a specific gravity of 1.52 at 68 °F. Guidelines for the above interpretations are sourced from USDA & U.C. Cooperative Extension Service publications. Please contact us if you have any questions.

FRUIT GROWERS LABORATORY, INC.

Scott Bucy

Scott Bucy, Director of Ag. Services

SB1:DMB



Well CHG-2014-14

File Original with DWR

State of California Well Completion Report

Refer to Instruction Pamphlet
No. **e0273976**

Page 1 of 2
 Owner's Well Number CHG-2014-14
 Date Work Began 06/19/2015 Date Work Ended 6/25/2015
 Local Permit Agency Santa Barbara County Environmental Health Department
 Permit Number WP0000470 Permit Date 3/19/15

| | | | |
|-------------------------------|---|-----------|---|
| DWR Use Only - Do Not Fill In | | | |
| State Well Number/Site Number | | | |
| Latitude | N | Longitude | W |
| APN/TRS/Other | | | |

| Geologic Log | | |
|--|--------------|--------------------|
| Orientation <input checked="" type="radio"/> Vertical <input type="radio"/> Horizontal <input type="radio"/> Angle Specify _____ | | |
| Drilling Method <u>Reverse Circulation Rotary</u> Drilling Fluid <u>Bentonite mud</u> | | |
| Depth from Surface | Feet to Feet | Description |
| 0 | 100 | Sand, Clay |
| 100 | 120 | Sand, Rock |
| 120 | 140 | Clay |
| 140 | 200 | Clay, Rock |
| 200 | 220 | Sand, Rock, Clay |
| 220 | 240 | Clay, Rock |
| 240 | 260 | Clay, Rock, Gravel |
| 260 | 280 | Clay, Rock |
| 280 | 300 | Clay, Sand, Rock |
| 300 | 320 | Clay, Sand |
| 320 | 340 | Clay, Gravel |
| 340 | 360 | Clay, Rock |
| 360 | 380 | Sand, Clay |
| 380 | 400 | Sand, Clay, Gravel |
| 400 | 420 | Sand, Clay |
| 420 | 440 | Clay |
| 440 | 460 | Clay, Rock |
| 460 | 480 | Clay, Sand |
| 480 | 500 | Clay |
| 500 | 520 | Gravel |
| 520 | 600 | Clay |
| 600 | 620 | Clay, Gravel |
| Total Depth of Boring <u>620</u> Feet | | |
| Total Depth of Completed Well <u>570</u> Feet | | |

| Well Owner | |
|--|----------------------------------|
| Name <u>Brodiaea, Inc./Grapevine Land Mgmt-North Fork c/o M.V.M.</u> | |
| Mailing Address <u>P.O. Box 789</u> | |
| City <u>Templeton</u> | State <u>CA</u> Zip <u>93465</u> |

| Well Location | |
|--|-----------------------------|
| Address <u>Highway 166 & Cottonwood Canyon Road</u> | |
| City <u>New Cuyama</u> | County <u>Santa Barbara</u> |
| Latitude <u>35</u> <u>1</u> <u>40</u> N Longitude <u>119</u> <u>51</u> <u>39</u> W | |
| Datum _____ Dec. Lat. <u>35.02783</u> | Dec. Long. <u>119.86077</u> |
| APN Book _____ Page _____ | Parcel <u>147-020-043</u> |
| Township _____ Range _____ | Section _____ |

| Location Sketch | |
|---|------|
| (Sketch must be drawn by hand after form is printed.) | |
| North | |
| See Attached Map | |
| West | East |
| South | |
| Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete. | |

| Activity |
|---|
| <input checked="" type="radio"/> New Well <input type="radio"/> Modification/Repair <input type="radio"/> Deepen <input type="radio"/> Other _____ <input type="radio"/> Destroy <small>Describe procedures and materials under "GEOLOGIC LOG"</small> |

| Planned Uses |
|--|
| <input checked="" type="radio"/> Water Supply <input type="checkbox"/> Domestic <input type="checkbox"/> Public <input checked="" type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="radio"/> Cathodic Protection <input type="radio"/> Dewatering <input type="radio"/> Heat Exchange <input type="radio"/> Injection <input type="radio"/> Monitoring <input type="radio"/> Remediation <input type="radio"/> Sparging <input type="radio"/> Test Well <input type="radio"/> Vapor Extraction <input type="radio"/> Other _____ |

| Water Level and Yield of Completed Well | |
|--|---|
| Depth to first water <u>45</u> (Feet below surface) | Depth to Static _____ |
| Water Level <u>45</u> (Feet) Date Measured <u>07/26/2015</u> | Estimated Yield * <u>302</u> (GPM) Test Type <u>Constant Rate</u> |
| Test Length <u>16.0</u> (Hours) Total Drawdown <u>137</u> (Feet) | *May not be representative of a well's long term yield. |

| Casings | | | | | | | |
|--------------------|-------------------|------|-----------|----------------|------------------|-------------|--------------------|
| Depth from Surface | Borehole Diameter | Type | Material | Wall Thickness | Outside Diameter | Screen Type | Slot Size if Any |
| Feet to Feet | (Inches) | | | (Inches) | (Inches) | | (Inches) |
| 0 | 50 | 34 | Conductor | Mild Steel | .375 | 24 | |
| 0 | 55 | 20 | Fill pipe | Gravel Tube | Sch40 | 3 | |
| 0 | 150 | 20 | Blank | PVC F480 | SDR21 | 12.75 | |
| 150 | 330 | 20 | Screen | PVC F480 | SDR21 | 12.75 | Milled Slots 0.040 |
| 330 | 370 | 20 | Blank | PVC F480 | SDR21 | 12.75 | |
| 370 | 550 | 20 | Screen | PVC F480 | SDR21 | 12.75 | Milled Slots 0.040 |

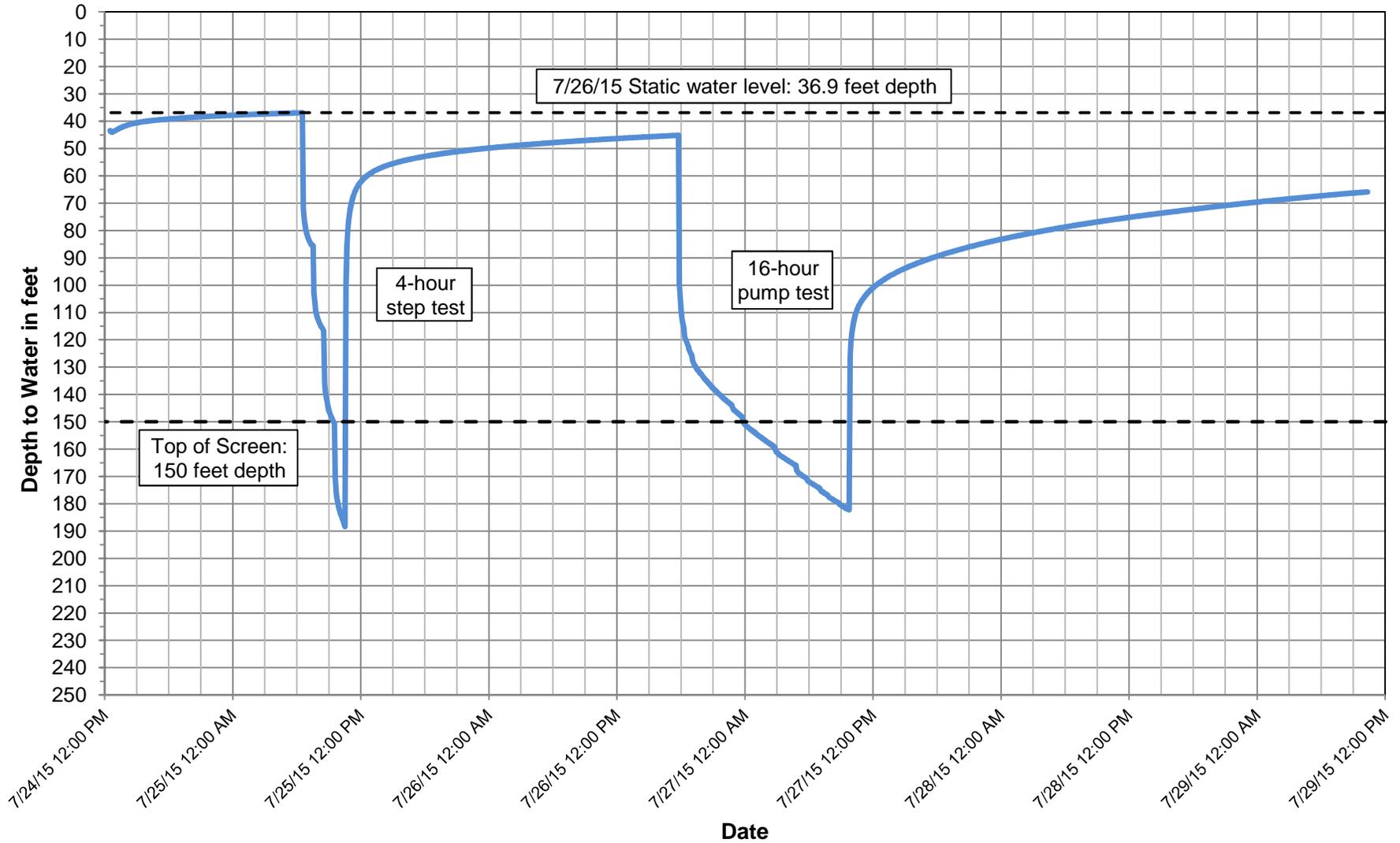
| Annular Material | | | |
|--------------------|------|-------------|---------------|
| Depth from Surface | Fill | Description | |
| Feet to Feet | | | |
| 0 | 50 | Cement | 6 Sack Slurry |
| 0 | 50 | Cement | Annular Seal |
| 50 | 620 | Filter Pack | 8x20 Gravel |

| Attachments |
|---|
| <input type="checkbox"/> Geologic Log <input type="checkbox"/> Well Construction Diagram <input type="checkbox"/> Geophysical Log(s) <input type="checkbox"/> Soil/Water Chemical Analyses <input type="checkbox"/> Other _____ |
| <small>Attach additional information, if it exists.</small> |

| Certification Statement | | | |
|--|-------------------|----------------------------|---|
| I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief | | | |
| Name <u>Tyson R. Davis, Pacific Coast Well Drilling, Inc.</u> | | | |
| <small>Person, Firm or Corporation</small> | | | |
| <u>P.O. Box 184</u> | <u>Templeton</u> | <u>CA</u> | <u>93465</u> |
| <small>Address</small> | | <small>City</small> | <small>State</small> <small>Zip</small> |
| Signed <u>[Signature]</u> | <u>11/11/2015</u> | <u>927400</u> | |
| <small>C-57 Licensed Water Well Contractor</small> | | <small>Date Signed</small> | <small>C-57 License Number</small> |

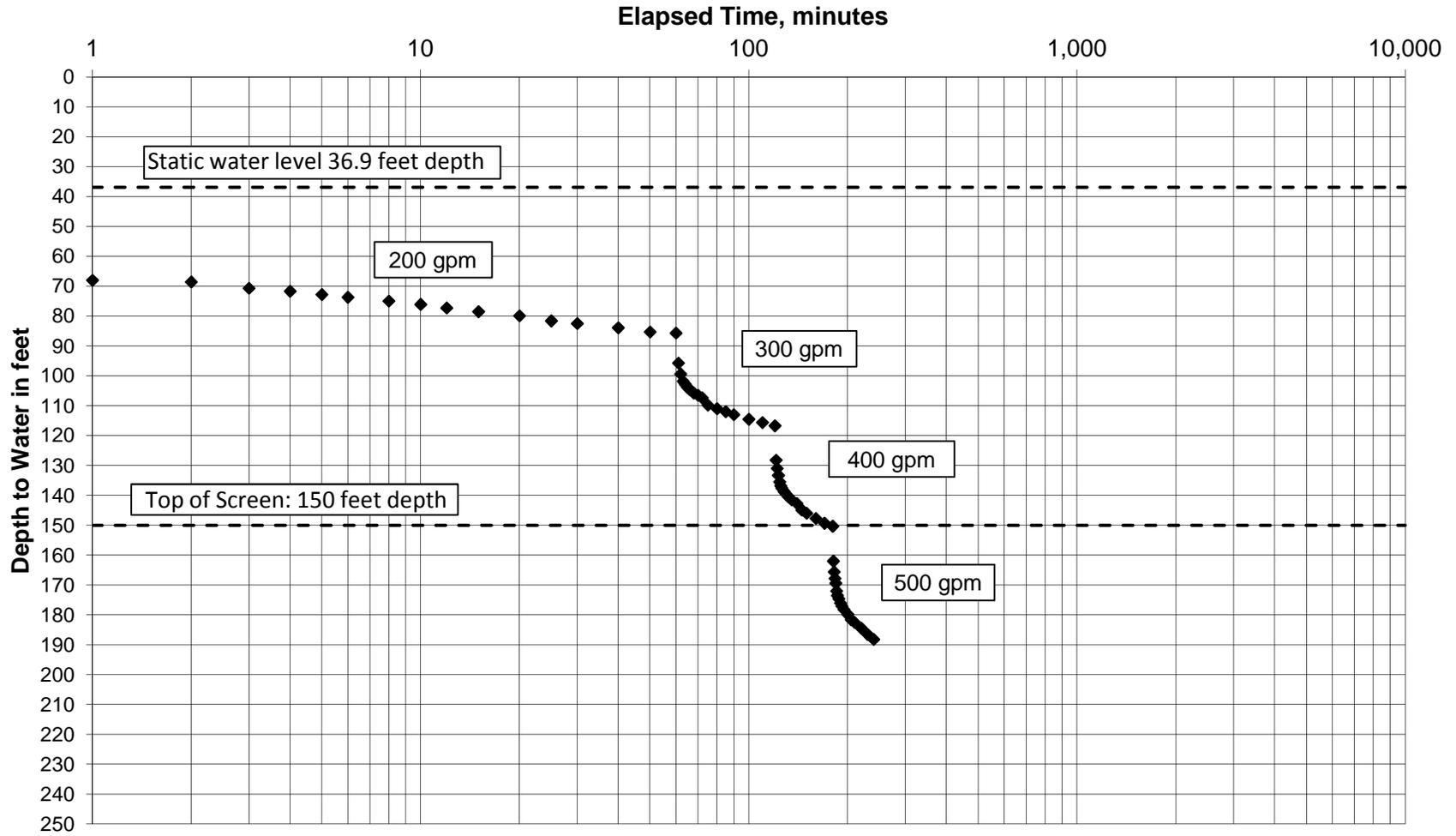
Transducer Chart North Fork Ranch Well CHG-2014-14
Grapevine Capital Partners
July 24 to July 29, 2015

Perforated interval:
150 to 330 feet
370 to 550 feet



StepTest (4-hour) North Fork Ranch Well CHG-2014-14
Grapevine Capital Partners
July 25, 2015

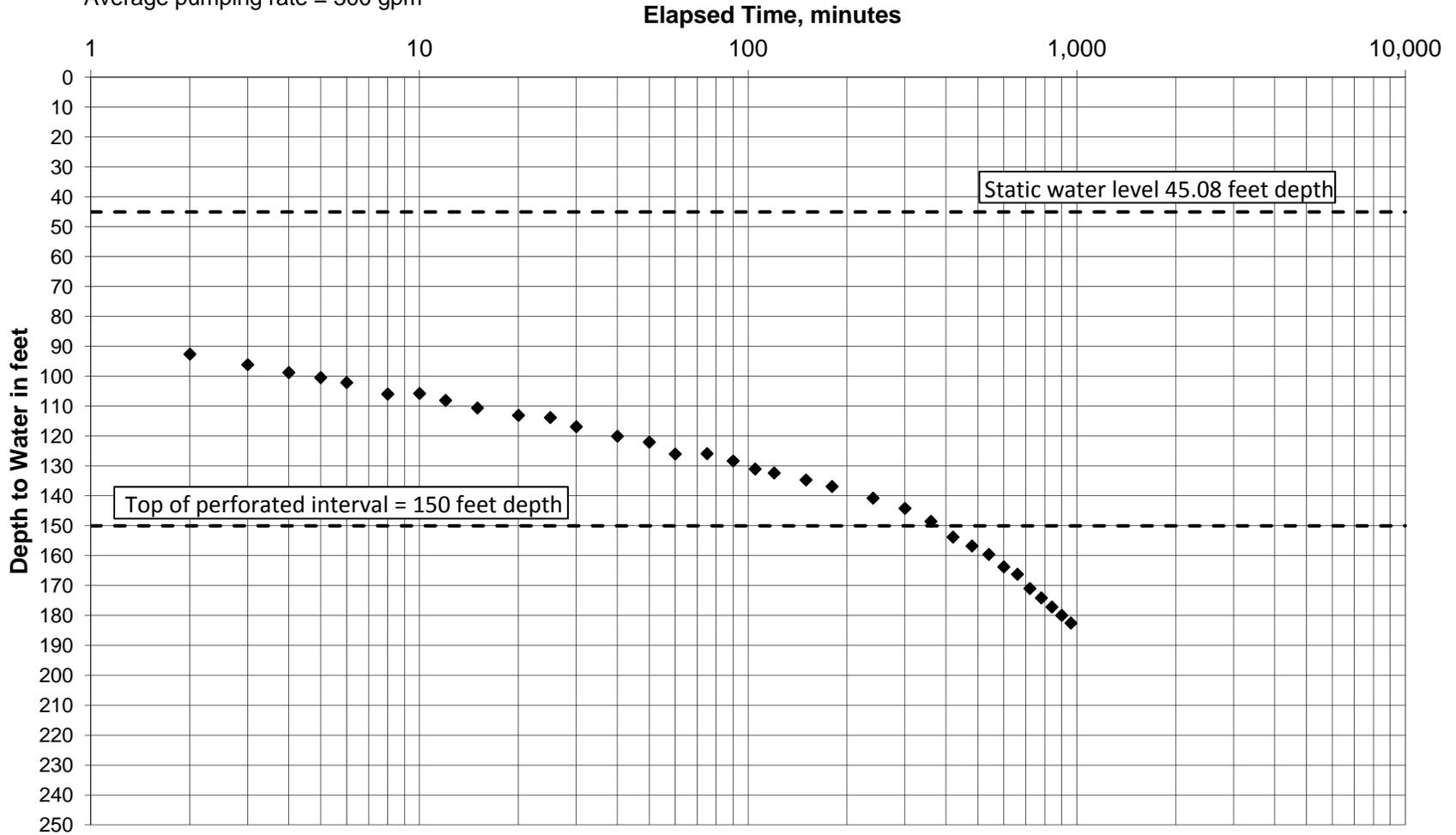
Perforated interval:
150 to 330 feet
370 to 550 feet



Pumping Test (16-hour) North Fork Ranch Well CHG-2014-14
Grapevine Capital Partners
July 26, 2015

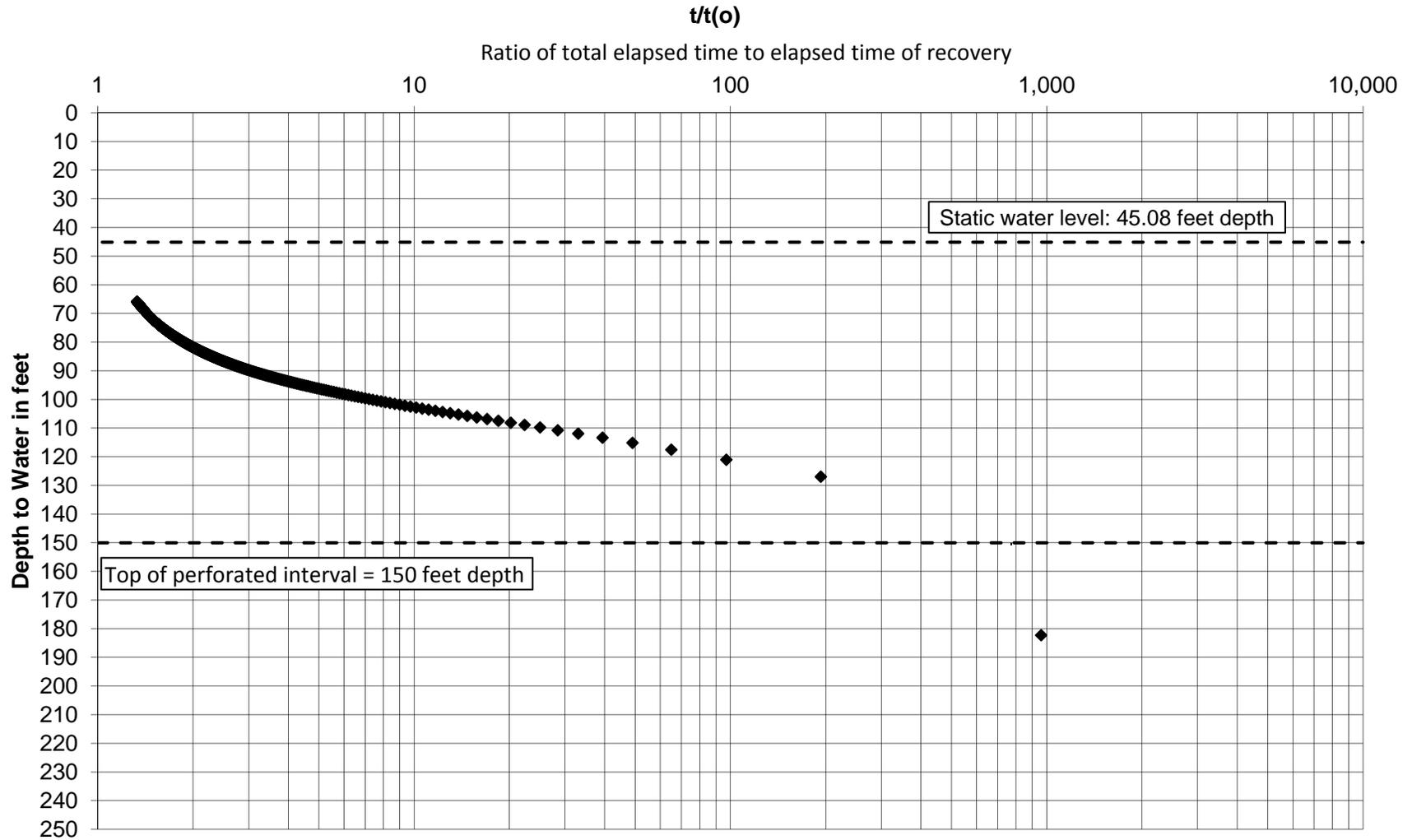
Perforated interval:
150 to 330 feet
370 to 550 feet

Static Water Level = 45.08 feet below top of casing
Average pumping rate = 300 gpm



Recovery Test, North Forks Ranch Well CHG-2014-14
Grapevine Capital Partners
July 27, 2015

Perforated interval:
150 to 330 feet
370 to 550 feet



Pumping Test (Step Test), North Fork Ranch CHG-2014-14

| Day | Time | Elapsed Time | Depth to Water* | Drawdown | Recorded Pumping Rate | meter |
|------------|-------------|---------------------|------------------------|-----------------|------------------------------|--------------|
| Mo./Day/Yr | hr:min | minutes | feet | feet | gallons per minute | AF |
| 7/25/15 | 6:30 | 0 | 36.9 | 0 | | 32.8875 |
| | 6:31 | 1 | 68.0 | 31.1 | 200 | |
| | 6:32 | 2 | 68.6 | 31.7 | | |
| | 6:33 | 3 | 70.7 | 33.8 | | |
| | 6:34 | 4 | 71.7 | 34.8 | | |
| | 6:35 | 5 | 72.8 | 35.9 | | |
| | 6:36 | 6 | 73.7 | 36.8 | | |
| | 6:38 | 8 | 75.0 | 38.1 | | |
| | 6:40 | 10 | 76.1 | 39.2 | | |
| | 6:42 | 12 | 77.3 | 40.4 | | |
| | 6:45 | 15 | 78.5 | 41.6 | | |
| | 6:50 | 20 | 79.9 | 43 | | |
| | 6:55 | 25 | 81.6 | 44.7 | | |
| | 7:00 | 30 | 82.5 | 45.6 | | |
| | 7:10 | 40 | 83.9 | 47 | | |
| | 7:20 | 50 | 85.3 | 48.4 | | |
| | 7:30 | 60 | 85.7 | 48.4 | | |
| | 7:31 | 61 | 95.7 | 48.8 | 300 | |
| | 7:32 | 62 | 99.4 | 62.5 | | |
| | 7:33 | 63 | 101.8 | 64.9 | | |
| | 7:34 | 64 | 102.8 | 65.9 | | |
| | 7:35 | 65 | 103.8 | 66.9 | | |
| | 7:36 | 66 | 104.6 | 67.7 | | |
| | 7:38 | 68 | 105.8 | 68.9 | | |
| | 7:40 | 70 | 106.5 | 69.6 | | |
| | 7:42 | 72 | 107.3 | 70.4 | | |
| | 7:45 | 75 | 109.8 | 72.9 | | |
| | 7:50 | 80 | 111.0 | 74.1 | | |
| | 7:55 | 85 | 112.0 | 75.1 | | |
| | 8:00 | 90 | 113.0 | 76.1 | | |
| | 8:10 | 100 | 114.5 | 77.6 | | |
| | 8:20 | 110 | 115.6 | 78.7 | | |
| | 8:30 | 120 | 116.7 | 79.8 | | |
| | 8:31 | 121 | 128.2 | 91.3 | 400 | |
| | 8:32 | 122 | 131.0 | 94.1 | | |
| | 8:33 | 123 | 133.3 | 96.4 | | |
| | 8:34 | 124 | 135.5 | 98.6 | | |
| | 8:35 | 125 | 136.8 | 99.9 | | |
| | 8:36 | 126 | 137.6 | 100.7 | | |
| | 8:38 | 128 | 138.7 | 101.8 | | |
| | 8:40 | 130 | 139.6 | 102.7 | | |
| | 8:42 | 132 | 140.5 | 103.6 | | |
| | 8:45 | 135 | 141.5 | 104.6 | | |
| | 8:50 | 140 | 142.7 | 105.8 | | |
| | 8:55 | 145 | 144.9 | 108 | | |
| | 9:00 | 150 | 146.0 | 109.1 | | |
| | 9:10 | 160 | 147.7 | 110.8 | | |
| | 9:20 | 170 | 149.3 | 112.4 | | |
| | 9:30 | 180 | 150.3 | 113.4 | | |
| | 9:31 | 181 | 162.0 | 125.1 | 500 | |
| | 9:32 | 182 | 165.6 | 128.7 | | |
| | 9:33 | 183 | 167.8 | 130.9 | | |
| | 9:34 | 184 | 169.4 | 132.5 | | |
| | 9:35 | 185 | 172.0 | 135.1 | | |
| | 9:36 | 186 | 173.5 | 136.6 | | |
| | 9:38 | 188 | 174.6 | 137.7 | | |
| | 9:40 | 190 | 176.0 | 139.1 | | |
| | 9:42 | 192 | 177.0 | 140.1 | | |
| | 9:45 | 195 | 178.2 | 141.3 | | |
| | 9:50 | 200 | 179.8 | 142.9 | | |
| | 9:55 | 205 | 181.6 | 144.7 | | |
| | 10:00 | 210 | 182.5 | 145.6 | | |
| | 10:10 | 220 | 184.4 | 147.5 | | |
| | 10:20 | 230 | 186.5 | 149.6 | | |
| | 10:30 | 240 | 188.2 | 151.3 | | 33.1449 |

Pumping Test (16-hour) North Fork Ranch Well CHG-2014-14

| Day | Time | Elapsed Time | Depth to Water | Drawdown | Totalizer | Rate |
|------------|-------------|---------------------|-----------------------|-----------------|------------------|--------------------|
| Mo./Day/Yr | hr:min | minutes | feet | feet | Acre-Feet | GPM |
| 7/26/15 | 5:44 | 0 | 45.08 | 0.00 | 33.1449 | |
| | 5:45 | 1 | 87.20 | 42.12 | | |
| | 5:46 | 2 | 92.60 | 47.52 | | |
| | 5:47 | 3 | 96.12 | 51.04 | | |
| | 5:48 | 4 | 98.74 | 53.66 | | |
| | 5:49 | 5 | 100.42 | 55.34 | | |
| | 5:50 | 6 | 102.10 | 57.02 | | |
| | 5:52 | 8 | 105.95 | 60.87 | | |
| | 5:54 | 10 | 105.75 | 60.67 | 33.1544 | 309.6 |
| | 5:56 | 12 | 108.05 | 62.97 | | |
| | 5:59 | 15 | 110.58 | 65.50 | | |
| | 6:04 | 20 | 113.06 | 67.98 | | |
| | 6:09 | 25 | 113.79 | 68.71 | | |
| | 6:14 | 30 | 116.85 | 71.77 | 33.1746 | 313.4 |
| | 6:24 | 40 | 120.04 | 74.96 | | |
| | 6:34 | 50 | 122.01 | 76.93 | | |
| | 6:44 | 60 | 125.99 | 80.91 | | |
| | 6:59 | 75 | 125.86 | 80.78 | 33.2163 | 308.8 |
| | 7:14 | 90 | 128.30 | 83.22 | | |
| | 7:29 | 105 | 131.01 | 85.93 | 33.2457 | 319.3 |
| | 7:44 | 120 | 132.34 | 87.26 | 33.2591 | 291.1 |
| | 8:14 | 150 | 134.64 | 89.56 | 33.2870 | 303.0 |
| | 8:44 | 180 | 136.85 | 91.77 | 33.3151 | 305.2 |
| | 9:44 | 240 | 140.74 | 95.66 | 33.3707 | 302.0 |
| | 10:44 | 300 | 144.15 | 99.07 | 33.4255 | 297.6 |
| | 11:44 | 360 | 148.51 | 103.43 | 33.4806 | 299.2 |
| | 12:44 | 420 | 153.75 | 108.67 | 33.5363 | 302.5 |
| | 13:44 | 480 | 156.73 | 111.65 | 33.5918 | 301.4 |
| | 14:44 | 540 | 159.55 | 114.47 | 33.6480 | 305.2 |
| | 15:44 | 600 | 163.72 | 118.64 | 33.7014 | 290.0 |
| | 16:44 | 660 | 166.20 | 121.12 | 33.7557 | 294.9 |
| | 17:44 | 720 | 170.95 | 125.87 | 33.8106 | 298.2 |
| | 18:44 | 780 | 174.09 | 129.01 | 33.8658 | 299.8 |
| | 19:44 | 840 | 177.14 | 132.06 | 33.9206 | 297.6 |
| | 20:44 | 900 | 179.94 | 134.86 | 33.9754 | 297.6 |
| | 21:44 | 960 | 182.50 | 137.42 | 34.0298 | 295.4 |
| | | | | | | 302 average |

August 6, 2015
Cleath-Harris Geologists
 Attn: Spencer Harris
 71 Zaca Lane
 Suite 140
 San Luis Obispo, CA 93401
 Description : CHG-2014-14
 Project : North Forks Ranch

Lab ID : CC 1582598-001
 Customer ID : 8-514
 Sampled On : July 26, 2015
 Sampled By : Spencer B. Harris, J
 Received On : July 27, 2015
 Matrix : Ground Water

Grape Irrigation Suitability Analysis

| Test Description | Result | | | | Graphical Results Presentation | | | | |
|-------------------------|--------|-------|-------|------------|--|------------------|------------------|--------------------|----------------|
| | mg/L | Meq/L | % Meq | Lbs/AF | Good | Possible Problem | Moderate Problem | Increasing Problem | Severe Problem |
| Cations | | | | | | | | | |
| Calcium | 87 | 4.3 | 17 | 240 | ** | | | | |
| Magnesium | 14 | 1.2 | 5 | 38 | ** | | | | |
| Potassium | 3 | 0.077 | 0 | 8 | ** | | | | |
| Sodium | 454 | 20 | 78 | 1200 | | | | | |
| Anions | | | | | | | | | |
| Carbonate | < 10 | 0 | 0 | 0 | | | | | |
| Bicarbonate | 90 | 1.5 | 6 | 240 | ** | | | | |
| Sulfate | 990 | 21 | 80 | 2700 | ** | | | | |
| Chloride | 110 | 3.1 | 12 | 300 | | | | | |
| Nitrate | 29.4 | 0.47 | 2 | 80 | | | | | |
| Nitrate Nitrogen | 6.6 | | | 18 | | | | | |
| Fluoride | 0.6 | 0.032 | 0 | 2 | | | | | |
| Minor Elements | | | | | | | | | |
| Boron | 0.40 | | | 1.1 | | | | | |
| Copper | < 0.01 | | | 0.00 | | | | | |
| Iron | 0.17 | | | 0.46 | | | | | |
| Manganese | 0.050 | | | 0.14 | | | | | |
| Zinc | < 0.02 | | | 0.00 | | | | | |
| TDS by Summation | 1780 | | | 4800 | | | | | |
| Other | | | | | | | | | |
| pH | 7.8 | | | units | | | | | |
| E. C. | 2.59 | | | dS/m | | | | | |
| SAR | 11.9 | | | | | | | | |
| Crop Suitability | | | | | | | | | |
| No Amendments | Poor | | | | | | | | |
| With Amendments | Fairly | | Poor | | | | | | |
| Amendments | | | | | | | | | |
| Gypsum Requirement | 1.8 | | | Tons/AF | Apply 0.62 Tons/AF if Sulfuric Acid amendment applied Or 14 oz/1000Gal of urea Sulfuric Acid (15/49). | | | | |
| Sulfuric Acid (98%) | 5.6 | | | oz/1000Gal | | | | | |
| Leaching Requirement | 19 | | | % | | | | | |

Good  Problem

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

** Used in various calculations; mg/L = Milligrams Per Liter (ppm) meq/L = Milliequivalents Per Liter



August 6, 2015

Cleath-Harris Geologists

Lab ID : CC 1582598-001

Customer ID : 8-514

Description : CHG-2014-14

Micro Irrigation System Plugging Hazard

| Test Description | Result | | Graphical Results Presentation | | |
|------------------------|-----------|-------|--|----------|--------|
| | | | Slight | Moderate | Severe |
| Chemical | | | | | |
| Manganese | 0.05 | mg/L |  | | |
| Iron | 0.17 | mg/L |  | | |
| TDS by Summation | 1780 | mg/L |  | | |
| No Amendments | | | | | |
| pH | 7.8 | units |  | | |
| Alkalinity (As CaCO3) | 80 | mg/L |  | | |
| Total Hardness | 275 | mg/L |  | | |
| With Amendments | | | | | |
| Alkalinity (As CaCO3) | 16 | mg/L |  | | |
| Total Hardness | 16 | mg/L |  | | |
| pH | 5.4 - 6.7 | units |  | | |

Good  Problem

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

Water Amendments Application Notes:

The Amendments recommended on the previous pages include:

Gypsum:

This should be applied at least once a year to the irrigated soil surface area. Gypsum can also be applied in smaller quantities in the irrigation water. Apply the smaller (bracketed) amount of gypsum when also applying the recommended amount of Sulfuric Acid and the larger amount when applying only Gypsum.

Sulfuric Acid:

These products should be applied as needed to prevent emitter plugging in micro irrigation systems and/or as a soil amendment to adjust soil pH to improve nutrient availability and to facilitate leaching of salts. Please exercise caution when using this material as excesses may be harmful to the system and/or the plants being irrigated. The reported Acid requirement is intended to remove approximately 80 % of the alkalinity. The final pH should range from 5.4 to 6.7. We recommend a field pH determination to confirm that the pH you designate is being achieved. This application is based upon the use of a 98% Sulfuric Acid product. The application of Urea Sulfuric Acid is based upon the use of a product that contains 15% Urea (1.89 lbs Nitrogen), 49% Sulfuric Acid and has a specific gravity of 1.52 at 68 °F.

Guidelines for the above interpretations are sourced from USDA & U.C. Cooperative Extension Service publications. Please contact us if you have any questions.

FRUIT GROWERS LABORATORY, INC.

Scott Bucy

Scott Bucy, Director of Ag. Services

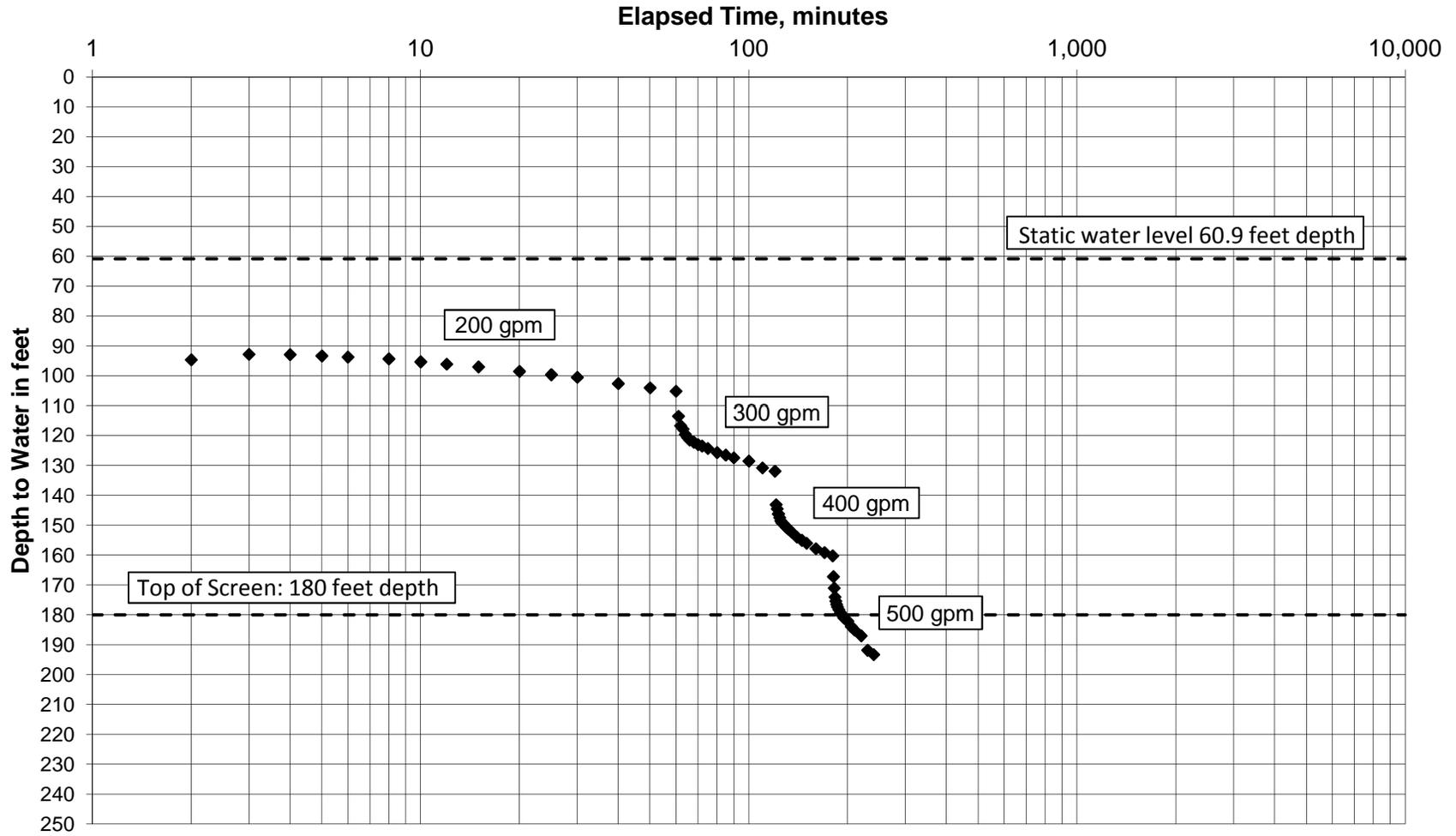
SB1:KDM



Well CHG-2014-15

StepTest (4-hour) North Fork Ranch Well CHG-2014-15
Grapevine Capital Partners
August 31, 2015

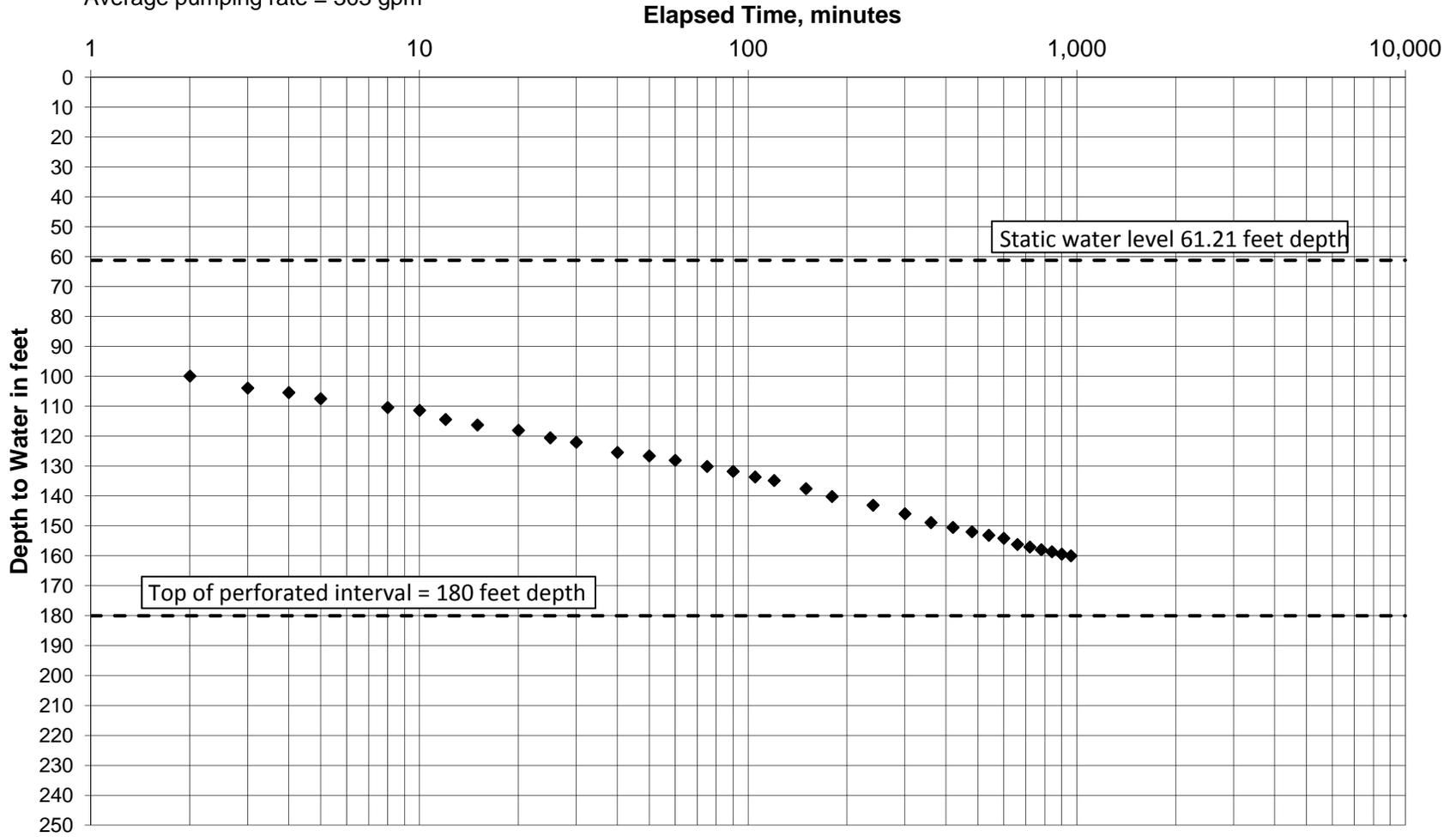
Perforated interval:
180 to 280 feet
300 to 540 feet
580 to 780 feet



Pumping Test (16-hour) North Fork Ranch Well CHG-2014-15
Grapevine Capital Partners
September 4, 2015

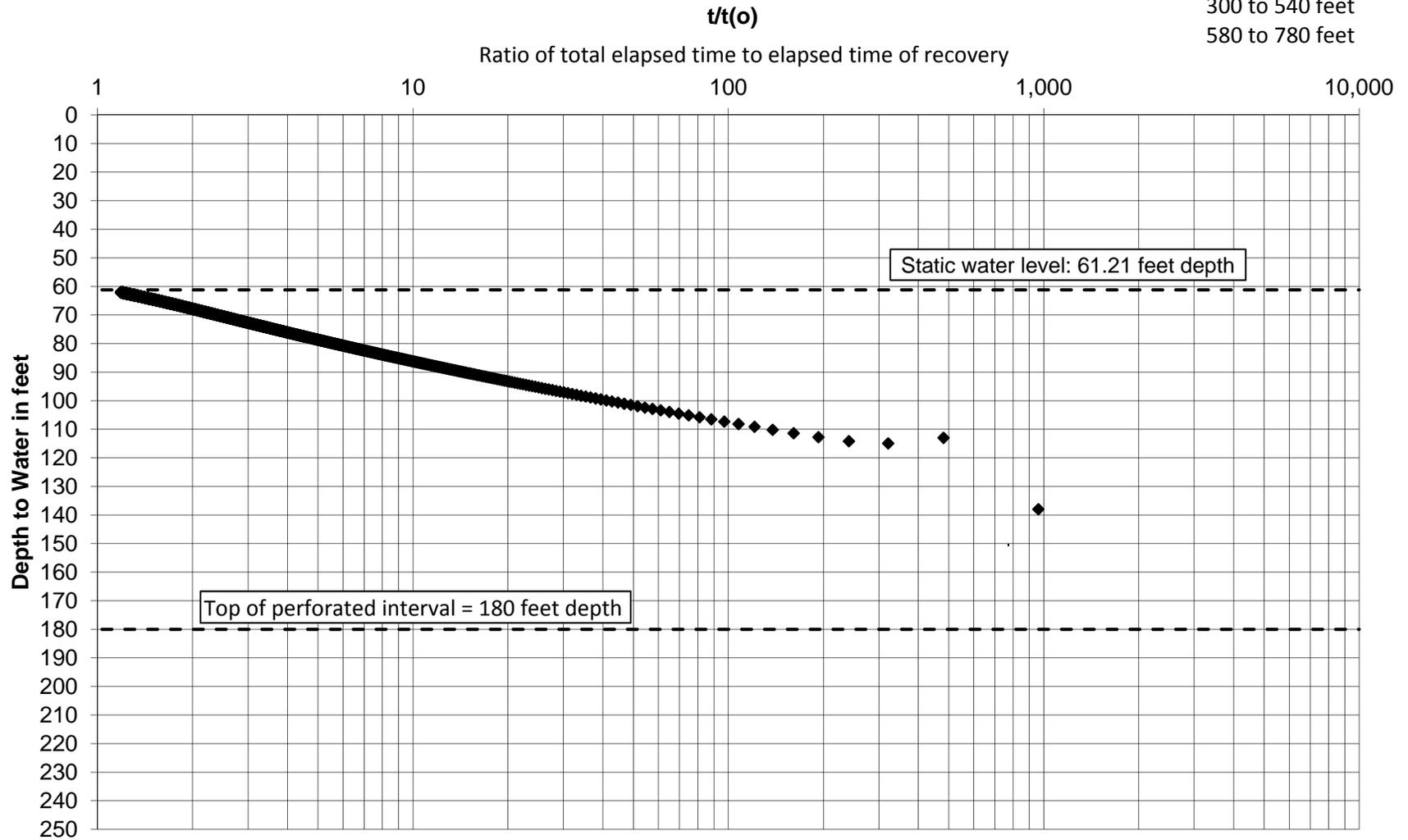
Perforated interval:
180 to 280 feet
300 to 540 feet
580 to 780 feet

Static Water Level = 61.21 feet below top of casing
Average pumping rate = 303 gpm



Recovery Test, North Forks Ranch Well CHG-2014-15
Grapevine Capital Partners
September 4, 2015

Perforated interval:
180 to 280 feet
300 to 540 feet
580 to 780 feet



Pumping Test (Step Test), North Fork Ranch CHG-2014-15

| Day | Time | Elapsed Time | Depth to Water* | Drawdown | Recorded Pumping Rate | meter |
|------------|-------------|---------------------|------------------------|-----------------|------------------------------|--------------|
| Mo./Day/Yr | hr:min | minutes | feet | feet | gallons per minute | AF |
| 8/31/15 | 10:30 | 0 | 60.9 | 0 | | 37.840 |
| | 10:31 | 1 | | | | |
| | 10:32 | 2 | 94.6 | 33.7 | | |
| | 10:33 | 3 | 92.8 | 31.9 | | |
| | 10:34 | 4 | 92.9 | 32 | | |
| | 10:35 | 5 | 93.3 | 32.4 | | |
| | 10:36 | 6 | 93.7 | 32.8 | | |
| | 10:38 | 8 | 94.3 | 33.4 | | |
| | 10:40 | 10 | 95.3 | 34.4 | | |
| | 10:42 | 12 | 96.1 | 35.2 | | |
| | 10:45 | 15 | 97.0 | 36.1 | | |
| | 10:50 | 20 | 98.5 | 37.6 | | |
| | 10:55 | 25 | 99.6 | 38.7 | | |
| | 11:00 | 30 | 100.5 | 39.6 | | |
| | 11:10 | 40 | 102.6 | 41.7 | | |
| | 11:20 | 50 | 104.0 | 43.1 | | |
| | 11:30 | 60 | 105.1 | 43.1 | 200 | 37.8771 |
| | 11:31 | 61 | 113.5 | 44.2 | | 37.8774 |
| | 11:32 | 62 | 116.7 | 55.8 | | |
| | 11:33 | 63 | 117.8 | 56.9 | | |
| | 11:34 | 64 | 119.6 | 58.7 | | |
| | 11:35 | 65 | 120.6 | 59.7 | | |
| | 11:36 | 66 | 121.5 | 60.6 | | |
| | 11:38 | 68 | 122.2 | 61.3 | | |
| | 11:40 | 70 | 123.0 | 62.1 | | |
| | 11:42 | 72 | 123.5 | 62.6 | | |
| | 11:45 | 75 | 124.3 | 63.4 | | |
| | 11:50 | 80 | 125.7 | 64.8 | | |
| | 11:55 | 85 | 126.5 | 65.6 | | |
| | 12:00 | 90 | 127.4 | 66.5 | | |
| | 12:10 | 100 | 128.5 | 67.6 | | |
| | 12:20 | 110 | 130.8 | 69.9 | | |
| | 12:30 | 120 | 131.9 | 71 | 300 | 37.9317 |
| | 12:31 | 121 | 143.1 | 82.2 | | 37.9320 |
| | 12:32 | 122 | 144.5 | 83.6 | | |
| | 12:33 | 123 | 146.2 | 85.3 | | |
| | 12:34 | 124 | 147.4 | 86.5 | | |
| | 12:35 | 125 | 148.5 | 87.6 | | |
| | 12:36 | 126 | 149.1 | 88.2 | | |
| | 12:38 | 128 | 149.7 | 88.8 | | |
| | 12:40 | 130 | 150.6 | 89.7 | | |
| | 12:42 | 132 | 151.3 | 90.4 | | |
| | 12:45 | 135 | 152.3 | 91.4 | | |
| | 12:50 | 140 | 153.9 | 93.0 | | |
| | 12:55 | 145 | 155.0 | 94.1 | | |
| | 13:00 | 150 | 156.0 | 95.1 | | |
| | 13:10 | 160 | 157.8 | 96.9 | | |
| | 13:20 | 170 | 159.1 | 98.2 | | |
| | 13:30 | 180 | 160.2 | 99.3 | 400 | 38.0050 |
| | 13:31 | 181 | 167.2 | 106.3 | | |
| | 13:32 | 182 | 171.0 | 110.1 | | |
| | 13:33 | 183 | 174.0 | 113.1 | | |
| | 13:34 | 184 | 175.4 | 114.5 | | |
| | 13:35 | 185 | 176.5 | 115.6 | | |
| | 13:36 | 186 | 177.3 | 116.4 | | |
| | 13:38 | 188 | 178.2 | 117.3 | | |
| | 13:40 | 190 | 179.2 | 118.3 | | |
| | 13:42 | 192 | 180.0 | 119.1 | | |
| | 13:45 | 195 | 181.0 | 120.1 | | |
| | 13:50 | 200 | 182.1 | 121.2 | | |
| | 13:55 | 205 | 183.9 | 123 | | |
| | 14:00 | 210 | 185.1 | 124.2 | | |
| | 14:10 | 220 | 187.0 | 126.1 | | |
| | 14:20 | 230 | 191.8 | 130.9 | | |
| | 14:30 | 240 | 193.3 | 132.4 | 500 | 38.0961 |

Pumping Test (16-hour) North Fork Ranch Well CHG-2014-15

| Day | Time | Elapsed Time | Depth to Water | Drawdown | Totalizer | Rate |
|------------|-------------|---------------------|-----------------------|-----------------|------------------|--------------------|
| Mo./Day/Yr | hr:min | minutes | feet | feet | Acre-Feet | GPM |
| 9/4/15 | 5:45 | 0 | 61.21 | 0.00 | 38.0961 | |
| | 5:46 | 1 | 95.35 | 34.14 | | |
| | 5:47 | 2 | 99.89 | 38.68 | | |
| | 5:48 | 3 | 103.9 | 42.69 | | |
| | 5:49 | 4 | 105.40 | 44.19 | | |
| | 5:50 | 5 | 107.46 | 46.25 | | |
| | 5:51 | 6 | | | | |
| | 5:53 | 8 | 110.39 | 49.18 | | |
| | 5:55 | 10 | 111.35 | 50.14 | | |
| | 5:57 | 12 | 114.39 | 53.18 | | |
| | 6:00 | 15 | 116.24 | 55.03 | | |
| | 6:05 | 20 | 118.03 | 56.82 | | |
| | 6:10 | 25 | 120.52 | 59.31 | | |
| | 6:15 | 30 | 122.01 | 60.80 | 38.1242 | 305.2 |
| | 6:25 | 40 | 125.42 | 64.21 | | |
| | 6:35 | 50 | 126.58 | 65.37 | | |
| | 6:45 | 60 | 128.05 | 66.84 | 38.1528 | 310.6 |
| | 7:00 | 75 | 130.10 | 68.89 | | |
| | 7:15 | 90 | 131.75 | 70.54 | | |
| | 7:30 | 105 | 133.62 | 72.41 | 38.1935 | 294.7 |
| | 7:45 | 120 | 134.80 | 73.59 | 38.2074 | 302.0 |
| | 8:15 | 150 | 137.51 | 76.30 | 38.2349 | 298.7 |
| | 8:45 | 180 | 140.15 | 78.94 | 38.2629 | 304.1 |
| | 9:45 | 240 | 143.05 | 81.84 | 38.3187 | 303.0 |
| | 10:45 | 300 | 145.91 | 84.70 | 38.374 | 300.3 |
| | 11:45 | 360 | 148.84 | 87.63 | 38.4304 | 306.3 |
| | 12:45 | 420 | 150.48 | 89.27 | 38.4865 | 304.7 |
| | 13:45 | 480 | 151.93 | 90.72 | 38.5423 | 303.0 |
| | 14:45 | 540 | 153.09 | 91.88 | 38.5979 | 302.0 |
| | 15:45 | 600 | 154.11 | 92.90 | 38.6531 | 299.8 |
| | 16:45 | 660 | 156.16 | 94.95 | 38.7109 | 313.9 |
| | 17:45 | 720 | 157.02 | 95.81 | 38.7667 | 303.0 |
| | 18:45 | 780 | 157.92 | 96.71 | 38.8235 | 308.5 |
| | 19:45 | 840 | 158.61 | 97.40 | 38.8775 | 293.3 |
| | 20:45 | 900 | 159.39 | 98.18 | 38.9318 | 294.9 |
| | 21:45 | 960 | 159.95 | 98.74 | 38.9876 | 303.0 |
| | | | | | | 303 average |

September 14, 2015
Cleath-Harris Geologists
 Attn: Spencer Harris
 71 Zaca Lane
 Suite 140
 San Luis Obispo, CA 93401
 Description : CHG-2014-15
 Project : North Fork Ranch

Lab ID : CC 1583080-001
 Customer ID : 8-514
 Sampled On : September 4, 2015
 Sampled By : Spencer B. Harris, J
 Received On : September 4, 2015
 Matrix : Ground Water

Grape Irrigation Suitability Analysis

| Test Description | Result | | | | Graphical Results Presentation | | | | |
|-------------------------|--------|-------|-------|------------|--|------------------|------------------|--------------------|----------------|
| | mg/L | Meq/L | % Meq | Lbs/AF | Good | Possible Problem | Moderate Problem | Increasing Problem | Severe Problem |
| Cations | | | | | | | | | |
| Calcium | 60 | 3 | 44 | 160 | ** | | | | |
| Magnesium | 22 | 1.8 | 27 | 60 | ** | | | | |
| Potassium | 2 | 0.051 | 1 | 5 | ** | | | | |
| Sodium | 45 | 2 | 29 | 120 |  | | | | |
| Anions | | | | | | | | | |
| Carbonate | < 10 | 0 | 0 | 0 |  | | | | |
| Bicarbonate | 210 | 3.4 | 55 | 570 | ** | | | | |
| Sulfate | 120 | 2.5 | 40 | 330 | ** | | | | |
| Chloride | 9 | 0.25 | 4 | 24 |  | | | | |
| Nitrate | 4.3 | 0.069 | 1 | 12 |  | | | | |
| Nitrate Nitrogen | 1 | | | 3 |  | | | | |
| Fluoride | 0.2 | 0.011 | 0 | 0.5 |  | | | | |
| Minor Elements | | | | | | | | | |
| Boron | 0.20 | | | 0.54 |  | | | | |
| Copper | < 0.01 | | | 0.00 |  | | | | |
| Iron | 0.050 | | | 0.14 |  | | | | |
| Manganese | < 0.01 | | | 0.00 |  | | | | |
| Zinc | 0.020 | | | 0.054 |  | | | | |
| TDS by Summation | 472 | | | 1300 |  | | | | |
| Other | | | | | | | | | |
| pH | 7.5 | | | units |  | | | | |
| E. C. | 0.673 | | | dS/m |  | | | | |
| SAR | 1.3 | | | |  | | | | |
| Crop Suitability | | | | | | | | | |
| No Amendments | Fairly | | Good | |  | | | | |
| With Amendments | Good | | | |  | | | | |
| Amendments | | | | | | | | | |
| Gypsum Requirement | 0.08 | | | Tons/AF | | | | | |
| Sulfuric Acid (98%) | 13 | | | oz/1000Gal | | | | | |
| Leaching Requirement | 4.4 | | | % | | | | | |

Good  Problem

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

** Used in various calculations; mg/L = Milligrams Per Liter (ppm) meq/L = Milliequivalents Per Liter



September 14, 2015

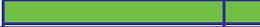
Cleath-Harris Geologists

Lab ID : CC 1583080-001

Customer ID : 8-514

Description : CHG-2014-15

Micro Irrigation System Plugging Hazard

| Test Description | Result | Graphical Results Presentation | | |
|------------------------|-----------------|--|----------|--------|
| | | Slight | Moderate | Severe |
| Chemical | | | | |
| Manganese | < 0.01 mg/L |  | | |
| Iron | 0.05 mg/L |  | | |
| TDS by Summation | 472 mg/L |  | | |
| No Amendments | | | | |
| pH | 7.5 units |  | | |
| Alkalinity (As CaCO3) | 180 mg/L |  | | |
| Total Hardness | 240 mg/L |  | | |
| With Amendments | | | | |
| Alkalinity (As CaCO3) | 36 mg/L |  | | |
| Total Hardness | 36 mg/L |  | | |
| pH | 5.4 - 6.7 units |  | | |

Good  Problem

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

Water Amendments Application Notes:

The Amendments recommended on the previous pages include:

Gypsum:

This should be applied at least once a year to the irrigated soil surface area. Gypsum can also be applied in smaller quantities in the irrigation water. Apply the smaller (bracketed) amount of gypsum when also applying the recommended amount of Sulfuric Acid and the larger amount when applying only Gypsum.

Sulfuric Acid:

These products should be applied as needed to prevent emitter plugging in micro irrigation systems and/or as a soil amendment to adjust soil pH to improve nutrient availability and to facilitate leaching of salts. Please exercise caution when using this material as excesses may be harmful to the system and/or the plants being irrigated. The reported Acid requirement is intended to remove approximately 80 % of the alkalinity. The final pH should range from 5.4 to 6.7. We recommend a field pH determination to confirm that the pH you designate is being achieved. This application is based upon the use of a 98% Sulfuric Acid product. The application of Urea Sulfuric Acid is based upon the use of a product that contains 15% Urea (1.89 lbs Nitrogen), 49% Sulfuric Acid and has a specific gravity of 1.52 at 68 °F.

Guidelines for the above interpretations are sourced from USDA & U.C. Cooperative Extension Service publications. Please contact us if you have any questions.

FRUIT GROWERS LABORATORY, INC.

Scott Bucy

Scott Bucy, Director of Ag. Services

SB1:KDM