

Rev. 1/16

	s):			
62-63	Page(s): 62-63		Report Prepared by: DEWBERRY	
ECIFIC DAT	Ā			
Benchmark Elevation(s) (NAVD88): Corpscon 6.0.1		1 Conversion Factor (NAVD88 to NGVD29)		
	+ 1.57 feet			
Groun	Ground Elevation (NAVD88):		Pad Elevation (NAVD88):	
10.0'	10.0'		N/A	
APHIC DAT	Ā			
Township 48 SOUTH		Range 43 EAST		
Locati	on Source:			
AVER	AVERAGED FPRN & TRIMBLE VRSNOW RTK		NOW RTK	
Eastin	Easting (X) = 951329'			
,	Groun 10.0' APHIC DAT DUTH Locati AVER/ Eastin	+ 1.57 feet Ground Elevation (N. 10.0' APHIC DATA DUTH Location Source: AVERAGED FPRN & Telephone (X) = 951329'	Corpscon 6.0.1 Conversion Fart + 1.57 feet Ground Elevation (NAVD88): 10.0' APHIC DATA DUTH Location Source: AVERAGED FPRN & TRIMBLE VRS	

Notes: NAVD88 – North American Vertical Datum of 1988; NGVD29- National Geodetic Vertical Datum of 1929; Corpscon 6.0.1 - A U.S. Army Corps of Engineers Engineering Research and Development Center Topographic Engineering Center Alexandria, Virginia Windows-based program to convert coordinates and elevations between datum's using vertcon05.txt and vertcon05.05 files supplied by the U.S. Army Corps of Engineers South Atlantic Division, Jacksonville Fl.

PICTURES

Well Site

Latitude: 26°16′43.3″ Longitude: 80°05′57.2′



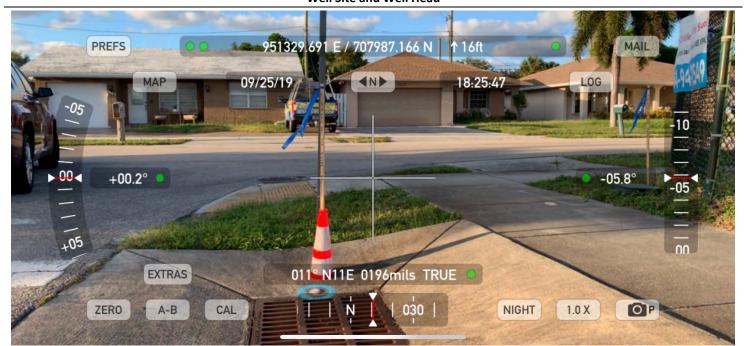
Not to scale (GoogleEarth product)

NAVD88 EL = 9.05 FEET



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Well Site and Well Head







Well: 4" PVC

Reference Point: West edge at top of PVC casing at black mark

Reference Point El. = 9.47 feet NAVD88

Distance to water = -5.19 feet from reference point (09/25/19 at 7:15 PM)



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USGS RMs	
NOTE: THERE ARE NO USGS REFERENCE MONUMENTS IN THE VICINITY OF WE	LL G-2752.



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Site Benchmark





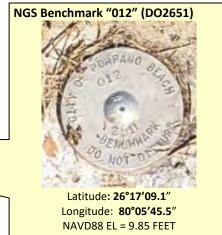




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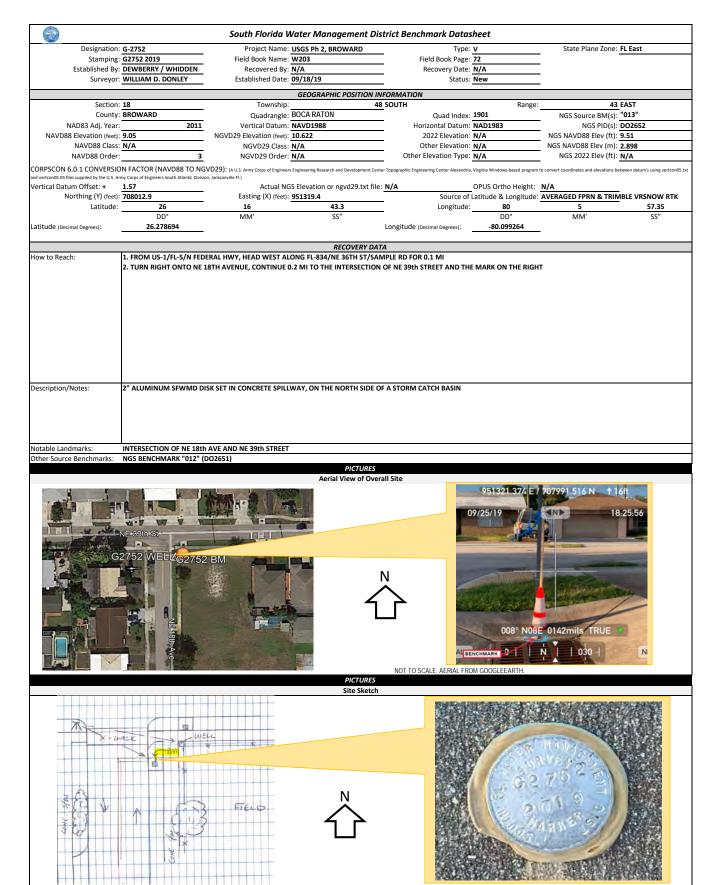
Source Benchmarks







Latitude: 26°16′19.3″ Longitude: 80°05′53.2″ NAVD88 EL = 9.51 FEET



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"012" Benchmark Datasheet (1 of 2)

The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.

```
PROGRAM = datasheet95, VERSION = 8.12.5.2
        National Geodetic Survey, Retrieval Date = MAY 20, 2019
DO2651 DESIGNATION - 012
D02651 PID

    D02651

DO2651 STATE/COUNTY- FL/BROWARD
                 - US
DO2651 COUNTRY
DO2651 USGS QUAD - BOCA RATON (1983)
D02651
D02651
                              *CURRENT SURVEY CONTROL
D02651
DO2651* NAD 83(1986) POSITION- 26 17 09.
                                         (N) 080 05 45.
                                                             (W)
                                                                    SCALED
DO2651* NAVD 88 ORTHO HEIGHT -
                                                       9.85 (feet) ADJUSTED
                                  3.001 (meters)
D02651
DO2651 GEOID HEIGHT
                                -25.907 (meters)
                                                                    GEOID12B
                                                       9.83 (feet) COMP
DO2651 DYNAMIC HEIGHT -
                                  2.997 (meters)
DO2651 MODELED GRAVITY -
                            979,075.5 (mgal)
                                                                    NAVD 88
D02651
DO2651 VERT ORDER

    SECOND

                                   CLASS II
D02651
DO2651. The horizontal coordinates were scaled from a topographic map and have
DO2651.an estimated accuracy of +/- 6 seconds.
DO2651. The orthometric height was determined by differential leveling and
DO2651.adjusted by the NATIONAL GEODETIC SURVEY
DO2651.in December 2012.
DO2651.Significant digits in the geoid height do not necessarily reflect accuracy.
DO2651.GEOID12B height accuracy estimate available here.
D02651
D02651.Photographs are available for this station.
D02651
DO2651. The dynamic height is computed by dividing the NAVD 88
DO2651.geopotential number by the normal gravity value computed on the
DO2651.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
D02651.degrees latitude (g = 980.6199 gals.).
D02651
DO2651. The modeled gravity was interpolated from observed gravity values.
D02651
D02651;
                                        East
                                               Units Estimated Accuracy
D02651;SPC FL E
                       216,600.
                                     290,300.
                                                  MT (+/- 180 meters Scaled)
D02651
DO2651_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK902076(NAD 83)
                               SUPERSEDED SURVEY CONTROL
D02651
D02651
D02651.No superseded survey control is available for this station.
D02651
DO2651_MARKER: DB = BENCH MARK DISK
DO2651_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
D02651_STAMPING: 012 2011
DO2651_MARK LOGO: FL2570
DO2651_PROJECTION: RECESSED 5 CENTIMETERS
DO2651_MAGNETIC: R = STEEL ROD IMBEDDED IN MONUMENT
DO2651_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
DO2651+STABILITY: SURFACE MOTION
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"012" Benchmark Datasheet (2 of 2)

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DO2651 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DO2651+SATELLITE: SATELLITE OBSERVATIONS - December 22, 2011
D02651
DO2651 HISTORY
                   - Date
                               Condition
                                                Report By
DO2651 HISTORY
                    - 20111222 MONUMENTED
                                                STONER
D02651
                                STATION DESCRIPTION
D02651
DO2651'DESCRIBED BY STONER AND ASSOCIATES INC 2011 (DWS)
DO2651'THE MARK IS ABOUT 6.9 MI (11.1 KM) EAST-SOUTHEAST OF WEST DIXIE BEND,
DO2651'5.1 MI (8.2 KM) SOUTH OF BOCA RATON, 3.8 MI (6.1 KM) NORTH-NORTHEAST
DO2651'OF POMPANO BEACH, IN SECTION 18, TOWNSHIP 48 SOUTH, RANGE 43 EAST.
DO2651'OWNERSHIP IS THE FLORIDA DEPARTMENT OF TRANSPORTATION.
D02651
DO2651'TO REACH THE MARK FROM THE INTERSECTION OF WEST ATLANTIC BOULEVARD AND
DO2651'NORTH DIXIE HIGHWAY IN POMPANO BEACH, GO EAST ON EAST ATLANTIC
DO2651'BOULEVARD FOR 1.5 MI (2.4 KM) TO THE INTERSECTION OF FEDERAL HIGHWAY
DO2651'(U.S. HIGHWAY 1). TURN LEFT ON NORTH FEDERAL HIGHWAY (U.S. HIGHWAY 1)
DO2651'AND GO NORTH FOR 3.8 MI (6.1 KM) TO THE MARK ON THE LEFT, SET IN THE
DO2651'TOP OF A 10-INCH (25 CM) ROUND CONCRETE MONUMENT RECESSED 0.2 FT (6
DO2651'CM) BELOW THE LEVEL OF THE GROUND AND 0.3 FT (9 CM) ABOVE THE LEVEL OF
DO2651'NORTH FEDERAL HIGHWAY (U.S. HIGHWAY 1).
DO2651'LOCATED 250.0 FT (76.2 M) NORTH OF THE INTERSECTION OF NORTH FEDERAL
DO2651'HIGHWAY (U.S. HIGHWAY 1) AND NORTHEAST 44TH STREET, 200.0 FT (61.0 M)
DO2651'NORTH OF THE SOUTH END OF THE BULL NOSE MEDIAN, 85.4 FT (26.0 M) SOUTH
DO2651'OF A 12-INCH (30 CM) PALM TREE, 19.2 FT (5.9 M) SOUTHWEST OF A
DO2651'DRAINAGE MANHOLE AND 1.0 FT (0.3 M) WEST OF A CARSONITE WITNESS POST.
DO2651'NOTE REBAR ROD IS IMBEDDED IN THE MONUMENT.
*** retrieval complete.
Elapsed Time = 00:00:04
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"013" Benchmark Datasheet (1 of 2)

The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.

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PROGRAM = datasheet95, VERSION = 8.12.5.2
        National Geodetic Survey, Retrieval Date = MAY 20, 2019
DO2652 DESIGNATION - 013
DO2652 PID

    D02652

DO2652 STATE/COUNTY- FL/BROWARD
DO2652 COUNTRY
                   - US
DO2652 USGS QUAD - BOCA RATON (1983)
D02652
D02652
                              *CURRENT SURVEY CONTROL
D02652
DO2652* NAD 83(1986) POSITION- 26 16 19.
                                            (N) 080 05 53.
                                                               (W)
                                                                    SCALED
DO2652* NAVD 88 ORTHO HEIGHT -
                                 2.898 (meters)
                                                       9.51 (feet) ADJUSTED
D02652
                                -25.893 (meters)
DO2652 GEOID HEIGHT
                                                                    GEOID12B
DO2652 DYNAMIC HEIGHT -
                                  2.894 (meters)
                                                       9.49 (feet) COMP
                            979,074.2 (mgal)
DO2652 MODELED GRAVITY -
                                                                    NAVD 88
D02652
DO2652 VERT ORDER

    SECOND

                                    CLASS II
DO2652. The horizontal coordinates were scaled from a topographic map and have
DO2652.an estimated accuracy of +/- 6 seconds.
D02652.
DO2652. The orthometric height was determined by differential leveling and
DO2652.adjusted by the NATIONAL GEODETIC SURVEY
D02652.in December 2012.
D02652
DO2652.Significant digits in the geoid height do not necessarily reflect accuracy.
DO2652.GEOID12B height accuracy estimate available here.
DO2652. Photographs are available for this station.
D02652
DO2652. The dynamic height is computed by dividing the NAVD 88
DO2652.geopotential number by the normal gravity value computed on the
DO2652.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
D02652.degrees latitude (g = 980.6199 gals.).
D02652
DO2652. The modeled gravity was interpolated from observed gravity values.
D02652
D02652;
                           North
                                        East
                                                Units Estimated Accuracy
D02652;SPC FL E
                      215.060.
                                     290,090.
                                                  MT (+/- 180 meters Scaled)
DO2652_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK900061(NAD 83)
D02652
                               SUPERSEDED SURVEY CONTROL
D02652
D02652
DO2652.No superseded survey control is available for this station.
D02652
DO2652_MARKER: DB = BENCH MARK DISK
D02652 SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
DO2652_STAMPING: 013 2011
DO2652_MARK_LOGO: FL2570
DO2652_PROJECTION: RECESSED 5 CENTIMETERS
DO2652 MAGNETIC: R = STEEL ROD IMBEDDED IN MONUMENT
DO2652_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
DO2652+STABILITY: SURFACE MOTION
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"013" Benchmark Datasheet (2 of 2)

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DO2652_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DO2652+SATELLITE: SATELLITE OBSERVATIONS - December 22, 2011
DO2652 HISTORY

    Date

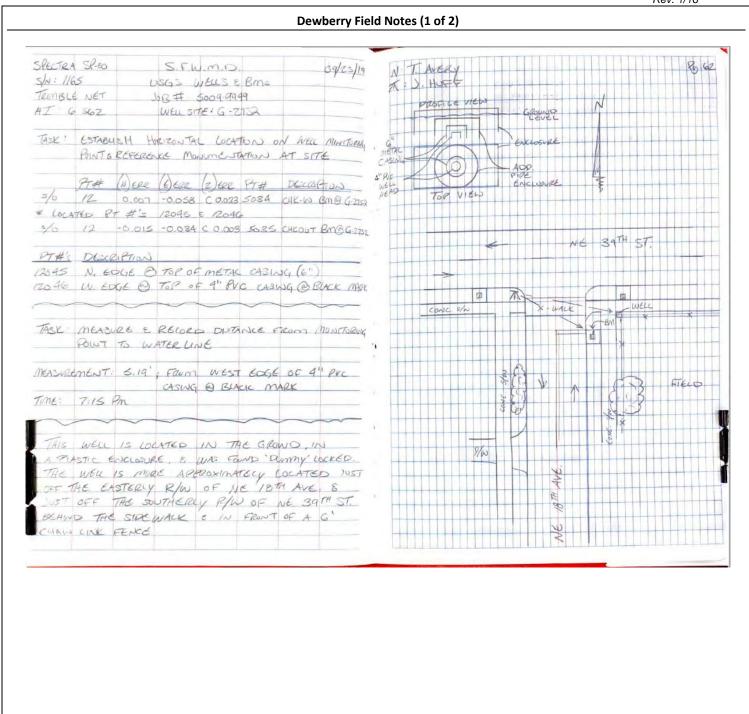
                               Condition
                                                Report By
DO2652 HISTORY

    20111222 MONUMENTED

                                                STONER
D02652
D02652
                                STATION DESCRIPTION
D02652
DO2652'DESCRIBED BY STONER AND ASSOCIATES INC 2011 (DWS)
DO2652'THE MARK IS ABOUT 7.1 MI (11.4 KM) EAST-SOUTHEAST OF WEST DIXIE BEND,
DO2652'6.0 MI (9.7 KM) SOUTH OF BOCA RATON, 2.9 MI (4.7 KM) NORTHEAST OF
DO2652'POMPANO BEACH, IN SECTION 19, TOWNSHIP 48 SOUTH, RANGE 43 EAST.
DO2652'OWNERSHIP IS THE FLORIDA DEPARTMENT OF TRANSPORTATION.
D02652'
DO2652'TO REACH THE MARK FROM THE INTERSECTION OF WEST ATLANTIC BOULEVARD AND
DO2652'NORTH DIXIE HIGHWAY IN POMPANO BEACH, GO EAST ON EAST ATLANTIC
DO2652'BOULEVARD FOR 1.5 MI (2.4 KM) TO THE INTERSECTION OF FEDERAL HIGHWAY
DO2652'(U.S. HIGHWAY 1). TURN LEFT ON NORTH FEDERAL HIGHWAY (U.S. HIGHWAY 1)
DO2652'AND GO NORTH FOR 2.8 MI (4.5 KM) TO THE MARK ON THE LEFT, SET IN THE
DO2652'TOP OF A 10-INCH (25 CM) ROUND CONCRETE MONUMENT RECESSED 0.2 FT (6
DO2652'CM) BELOW THE LEVEL OF THE GROUND AND 0.5 FT (15 CM) ABOVE THE LEVEL
DO2652'OF NORTH FEDERAL HIGHWAY (U.S. HIGHWAY 1).
DO2652'LOCATED 68.0 FT (20.7 M) WEST OF THE CENTERLINE OF NORTH FEDERAL
DO2652'HIGHWAY (U.S. HIGHWAY 1), 58.0 FT (17.7 M) SOUTH OF THE INTERSECTION
DO2652'OF NORTH FEDERAL HIGHWAY (U.S. HIGHWAY 1) AND NORTHEAST 33RD STREET,
D02652'20.4 FT (6.2 M) SOUTH OF A CROSS WALK SIGNAL POLE, 10.0 FT (3.0 M)
DO2652'SOUTHEAST OF THE SOUTHEAST CORNER OF A CONCRETE PLANTER, 9.7 FT (3.0
DO2652'M) SOUTHEAST OF A WOODEN POWER POLE, 7.0 FT (2.1 M) WEST OF A METAL
DO2652'TRAFFIC SIGNAL POLE AND 1.3 FT (0.4 M) NORTHEAST OF A CARSONITE
DO2652'WITNESS POST.
D02652'
DO2652'NOTE REBAR ROD IS IMBEDDED IN THE MONUMENT.
*** retrieval complete.
Elapsed Time = 00:00:03
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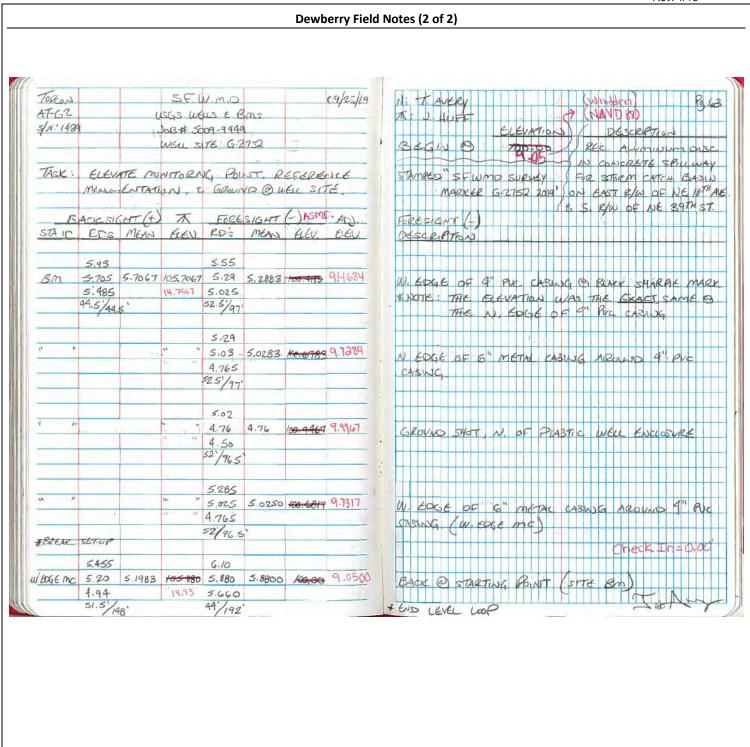


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Whidden Field Notes

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