

LEVELS CONT'D TO WELLS FROM  
FB#1 PG. 7B

LEVELS TO WELL PB 732+1619 IN SEC. 13. TWP 41 PG. 42

TA	H I	ELEV	BMELEV
BM			11.93
	4.09 3.17	16.02	
TP		5.54 1.32	10.08
	4.94 2.32	15.02	
TP		5.27 1.99	9.75
	5.10 2.16	14.85	
TP		4.65 2.62	10.20
	5.63 1.64	15.33	
TP		4.42 2.84	11.41
	4.93 2.33	16.34	
TP		3.91 3.36	12.43
	4.88 2.38	17.31	

(CONT'D) P.B. PG. 2

35 47/42

USCGS MON N-234 GOOD CONDITION  
ELEV 11.926 RECOVERED AS DESCRIBED

10.3642 (3.159m) NAVD88  
11.9258 (3.635m) NGVD29



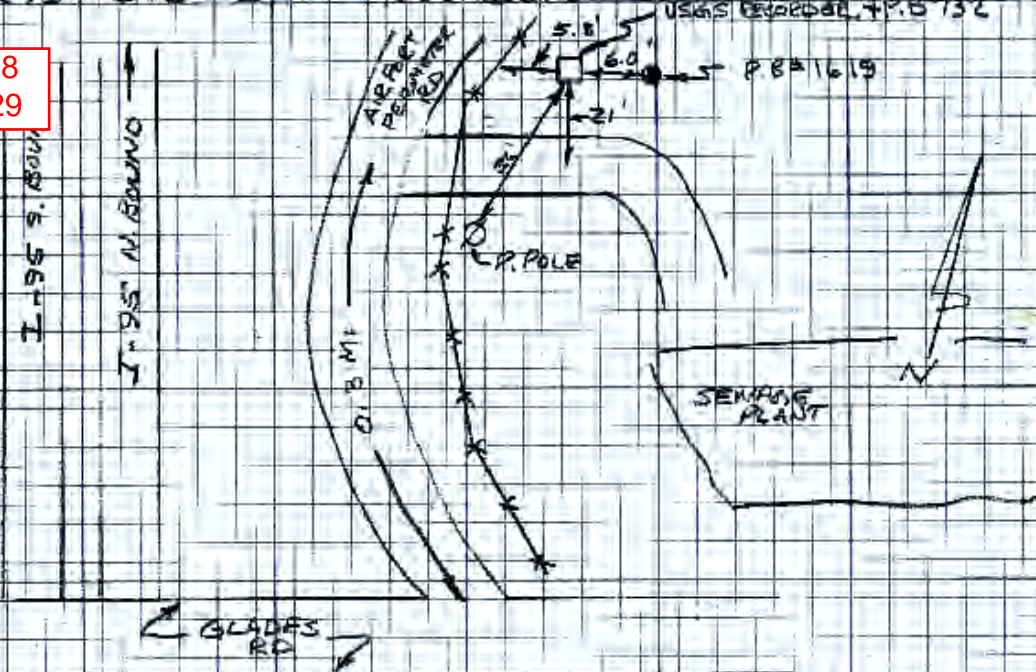
CONT'D FROM PG-1

STA	#1	ELEV	BMELEV
USGS RECORDER #732	1731 3.93 3.83	13.38	13.38
4.11 3.15	1749		
WELL P.B-1619	5.42 1.84	12.07	12.07
5.26 2.00	1733	RETURN LEVELS	
TP	4.90 2.37	12.43	
4.27 3.00	1670		
TP	5.28 1.58	11.42	
3.99 3.27	1541		
TP	5.27 2.00	10.14	
4.45 2.82	1459		
TP	4.49 2.77	10.10	
4.88 2.43	1493		
TP	4.95 2.31	9.98	
5.98 1.28	1596		
BM	4.04 3.22	11.92	11.93

11.8191525 NAVD88  
13.380829166 NGVD29

2" SQ W/X-MARK DRAWN ON S.W. COR OF RECORDER PLATFORM  
RECORDER IS LOCATED 0.3 MI. N OF THE INTERSECTION  
OF GLADES RD ON EYR SIDE AIRPORT PERIMETER RD  
5.8' E OF A 72" CHAIN LINK FENCE, 360' N OF A  
FENCE = 21.0' N OF A SAND RD  
TOP N. SIDE OF 2" PVC PIPE. AX-MARK PAINTED ORANGE  
WELLS 6.0' E OF RECORDER

10.509155 NAVD88  
12.070829166 NGVD29



NOTE GRND ELEV IS 11.8

M HOLLIN  
T PINDER  
S STRICKLAND  
V VANDEGRIFF

(F) 29.57 - 28.12 = +1.45  
(B) 32.89 - 34.35 = -1.46  
(1.45 = 1.46/2) = 1.455

USGS MON N-234 ELEV 11.926 SEE PG-1

# The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

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PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,  Retrieval Date = MARCH  8, 2016
AD2645 *****
AD2645 SACS          -  This is a Secondary Airport Control Station.
AD2645 DESIGNATION -  N 234
AD2645 PID          -  AD2645
AD2645 STATE/COUNTY-  FL/PALM BEACH
AD2645 COUNTRY     -  US
AD2645 USGS QUAD   -  BOCA RATON (1983)
AD2645
AD2645                      *CURRENT SURVEY CONTROL
AD2645
AD2645* NAD 83(2011) POSITION- 26 22 23.93647(N) 080 06 44.79378(W) ADJUSTED
AD2645* NAD 83(2011) ELLIP HT-  -22.722 (meters) (06/27/12) ADJUSTED
AD2645* NAD 83(2011) EPOCH   - 2010.00
AD2645* NAVD 88 ORTHO HEIGHT - 3.159 (meters) 10.36 (feet) ADJUSTED
AD2645
AD2645 NAD 83(2011) X - 981,875.918 (meters) COMP
AD2645 NAD 83(2011) Y - -5,633,117.900 (meters) COMP
AD2645 NAD 83(2011) Z - 2,816,166.614 (meters) COMP
AD2645 LAPLACE CORR - -3.60 (seconds) DEFLEC12B
AD2645 GEOID HEIGHT - -25.878 (meters) GEOID12B
AD2645 DYNAMIC HEIGHT - 3.154 (meters) 10.35 (feet) COMP
AD2645 MODELED GRAVITY - 979,084.4 (mgal) NAVD 88
AD2645
AD2645 VERT ORDER - FIRST CLASS I
AD2645
AD2645 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AD2645 Standards:
AD2645      FGDC (95% conf, cm)      Standard deviation (cm)      CorrNE
AD2645      Horiz Ellip              SD_N  SD_E  SD_h          (unitless)
AD2645 -----
AD2645 NETWORK      1.83  2.82              0.80  0.69  1.44          0.10452525
AD2645 -----
AD2645 Click here for local accuracies and other accuracy information.
AD2645
AD2645
AD2645.This mark is at Boca Raton Airport (BCT)
AD2645
AD2645.The horizontal coordinates were established by GPS observations
AD2645.and adjusted by the National Geodetic Survey in June 2012.
AD2645
AD2645.NAD 83(2011) refers to NAD 83 coordinates where the reference
AD2645.frame has been affixed to the stable North American tectonic plate. See
AD2645.NA2011 for more information.
AD2645
AD2645.The horizontal coordinates are valid at the epoch date displayed above
AD2645.which is a decimal equivalence of Year/Month/Day.
AD2645
AD2645.The orthometric height was determined by differential leveling and
AD2645.adjusted by the NATIONAL GEODETIC SURVEY

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AD2645.in June 1991.

AD2645

AD2645.Significant digits in the geoid height do not necessarily reflect accuracy.  
AD2645.GEOID12B height accuracy estimate available [here](#).

AD2645

AD2645.The X, Y, and Z were computed from the position and the ellipsoidal ht.  
AD2645

AD2645.The Laplace correction was computed from DEFLEC12B derived deflections.  
AD2645

AD2645.The ellipsoidal height was determined by GPS observations  
AD2645.and is referenced to NAD 83.

AD2645

AD2645.The dynamic height is computed by dividing the NAVD 88  
AD2645.geopotential number by the normal gravity value computed on the  
AD2645.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45  
AD2645.degrees latitude (g = 980.6199 gals.).

AD2645

AD2645.The modeled gravity was interpolated from observed gravity values.

AD2645

AD2645. The following values were computed from the NAD 83(2011) position.

AD2645

AD2645;		North	East	Units	Scale	Factor	Converg.
AD2645;SPC FL E	-	226,277.150	288,574.418	MT	1.00003800		+0 23 39.5
AD2645;SPC FL E	-	742,377.62	946,764.57	sFT	1.00003800		+0 23 39.5
AD2645;UTM 17	-	2,917,331.927	588,544.197	MT	0.99969679		+0 23 39.5

AD2645

AD2645!		Elev Factor	x	Scale Factor	=	Combined Factor
AD2645!SPC FL E	-	1.00000357	x	1.00003800	=	1.00004157
AD2645!UTM 17	-	1.00000357	x	0.99969679	=	0.99970036

AD2645

#### SUPERSEDED SURVEY CONTROL

AD2645

AD2645	NAD 83(2007)-	26 22 23.93743(N)	080 06 44.79426(W)	AD(2002.00)	0
AD2645	NAD 83(1999)-	26 22 23.93772(N)	080 06 44.79369(W)	AD( )	1
AD2645	ELLIP H (12/13/01)	-22.765 (m)		GP( )	4 1
AD2645	ELLIP H (01/05/98)	-22.782 (m)		GP( )	4 1
AD2645	NAD 83(1990)-	26 22 23.93630(N)	080 06 44.79267(W)	AD( )	1
AD2645	NAVD 88 (01/05/98)	3.16 (m)	10.4 (f)	LEVELING	3
AD2645	NGVD 29 (??/??/92)	3.635 (m)	11.93 (f)	ADJ UNCH	1 1
AD2645	NGVD 29 (02/04/91)	3.64 (m)	11.9 (f)	LEVELING	3

AD2645

AD2645.Superseded values are not recommended for survey control.

AD2645

AD2645.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

AD2645.[See file dsdata.txt](#) to determine how the superseded data were derived.

AD2645

AD2645\_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK8854417331(NAD 83)

AD2645

AD2645\_MARKER: DB = BENCH MARK DISK

AD2645\_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

AD2645\_STAMPING: N 234 1965

AD2645\_MARK LOGO: CGS

AD2645\_MAGNETIC: O = OTHER; SEE DESCRIPTION

AD2645\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

AD2645+STABILITY: SURFACE MOTION

AD2645\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AD2645+SATELLITE: SATELLITE OBSERVATIONS - February 09, 2004

AD2645

AD2645	HISTORY	- Date	Condition	Report By
AD2645	HISTORY	- 1965	MONUMENTED	CGS

AD2645 HISTORY - 1965 MONUMENTED CGS

AD2645 HISTORY - 1984 MARK NOT FOUND USPSQD  
 AD2645 HISTORY - 1987 MARK NOT FOUND USPSQD  
 AD2645 HISTORY - 1988 GOOD USPSQD  
 AD2645 HISTORY - 19890201 GOOD NGS  
 AD2645 HISTORY - 1990 GOOD USPSQD  
 AD2645 HISTORY - 19960203 GOOD NGS  
 AD2645 HISTORY - 20010529 GOOD INDIV  
 AD2645 HISTORY - 20040209 GOOD USPSQD

AD2645

AD2645 STATION DESCRIPTION

AD2645

AD2645'DESCRIBED BY COAST AND GEODETIC SURVEY 1965

AD2645'5.5 MI NW FROM BOCA RATON.

AD2645'ABOUT 3.0 MILES NORTH ALONG THE FLORIDA EAST COAST RAILWAY

AD2645'FROM THE STATION AT BOCA RATON, THENCE 1.4 MILES WEST ALONG NW

AD2645'40TH STREET AND A BLACK TOP ROAD, THENCE 0.9 MILE SOUTHWEST

AD2645'ALONG THE NORTHEAST-SOUTHWEST RUNWAY OF THE BOCA RATON AIRPORT,

AD2645'ABOUT 0.9 MILE SOUTHWEST OF THE HANGAR AND OFFICE BUILDING,

AD2645'AT THE JUNCTION OF THE FORMER NORTHWEST-SOUTHEAST RUNWAY, 127

AD2645'FEET SOUTHEAST OF THE EXTENDED SOUTHEAST EDGE OF THE

AD2645'NORTHEAST-SOUTHWEST RUNWAY, 7 1/2 FEET SOUTHWEST OF THE SOUTHWEST

AD2645'EDGE OF ABANDONED RUNWAY, 1 FOOT SOUTHEAST OF A FENCE, 1.5

AD2645'FEET NORTHEAST OF A METAL WITNESS POST, ABOUT LEVEL WITH THE

AD2645'RUNWAY AND SET IN THE TOP OF A CONCRETE POST PROJECTING 1 INCH

AD2645'ABOVE THE LEVEL OF THE GROUND. IN SECTION 13, R 42 E, T 47 S.

AD2645

AD2645 STATION RECOVERY (1984)

AD2645

AD2645'RECOVERY NOTE BY US POWER SQUADRON 1984

AD2645'MARK NOT FOUND.

AD2645

AD2645 STATION RECOVERY (1987)

AD2645

AD2645'RECOVERY NOTE BY US POWER SQUADRON 1987 (JHH)

AD2645'MARK NOT FOUND.

AD2645

AD2645 STATION RECOVERY (1988)

AD2645

AD2645'RECOVERY NOTE BY US POWER SQUADRON 1988 (BJS)

AD2645'RECOVERED IN GOOD CONDITION.

AD2645

AD2645 STATION RECOVERY (1989)

AD2645

AD2645'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1989

AD2645'THE STATION IS LOCATED AT THE SOUTHWEST END OF RUNWAY 5-23, NEAR THE

AD2645'SOUTHWEST CORNER OF BOCA RATON AIRPORT. AIRPORT IS LOCATED ABOUT 0.40

AD2645'KM (0.25 MI) EAST OF INTERSTATE 95, ABOUT 2.0 KM (1.25 MI) NORTH OF

AD2645'THE JUNCTION OF GLADES ROAD (SR 808) AND AIRPORT ROAD (FORMERLY

AD2645'PERIMETER ROAD), LOCATED NEAR THE NORTHWEST CORNER OF BOCA RATON.

AD2645'OWNERSHIP--STATE OF FLORIDA, LEASED TO BOCA RATON AIRPORT AUTHORITY,

AD2645'MANAGER IS ALAN BRUNSTROM, PHONE 407-391-2202. NOTE--PERMISSION MUST

AD2645'BE OBTAINED BEFORE ENTERING AIRPORT.

AD2645'TO REACH THE STATION FROM THE JUNCTION OF GLADES ROAD AND AIRPORT

AD2645'ROAD, LOCATED ABOUT 0.40 KM (0.25 MI) EAST OF INTERSTATE 95 AND GLADES

AD2645'ROAD INTERCHANGE, GO NORTH-NORTHEAST ALONG AIRPORT ROAD FOR 2.0 KM

AD2645'(1.25 MI) TO AIRPORT ACCESS ROAD ON THE RIGHT, THEN GO RIGHT, EAST AND

AD2645'NORTH ALONG ACCESS ROAD FOR 0.16 KM (0.10 MI) TO THE AIRPORT MANAGERS

AD2645'OFFICE ON THE SECOND FLOOR OF THE TERMINAL. FROM THE ELECTRONIC

AD2645'SECURITY GATE LOCATED AT THE SOUTH CORNER OF THE TERMINAL, GO THRU

AD2645'GATE AND SOUTHERLY ALONG THE PAVED APRON AND TAXI APPROACH FOR ABOUT

AD2645'0.16 KM (0.10 MI) TO THE JUNCTION OF MAIN RUNWAY 5-23, THEN CROSS OVER  
AD2645'RUNWAY AND GO SOUTHWEST FOR ABOUT 0.08 KM (0.05 MI) TO THE WIND SOCK  
AD2645'AND STATION BOCAPORT 1989 ON THE LEFT, THEN PROCEED WEST-SOUTHWEST  
AD2645'ALONG THE SOUTHWEST SIDE OF RUNWAY IN GRASSY AREA FOR 0.96 KM  
AD2645'(0.60 MI) TO THE END OF RUNWAY AND THE STATION.

AD2645'THE STATION IS FLUSH WITH GROUND. LOCATED 29.9 M (98.1 FT) NORTHWEST  
AD2645'OF A SECURITY FENCE LINE, 35.8 M (117.5 FT) SOUTHEAST OF THE MOST  
AD2645'SOUTHEAST 1 OF 8 END RUNWAY LIGHTS AND 0.31 M (1.0 FT) NORTHWEST OF A  
AD2645'FIBERGLASS WITNESS POST.

AD2645'DESCRIBED BY G.F. SMITH.

AD2645

AD2645 STATION RECOVERY (1990)

AD2645

AD2645'RECOVERY NOTE BY US POWER SQUADRON 1990 (BJS)

AD2645'RECOVERED IN GOOD CONDITION.

AD2645

AD2645 STATION RECOVERY (1996)

AD2645

AD2645'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1996 (CFS)

AD2645'THE STATION IS LOCATED ABOUT 6.5 MI (10.5 KM) SOUTHWEST OF DEERFIELD  
AD2645'BEACH, IN BOCA RATON, AT THE BOCA RATON AIRPORT AND NEAR THE APPROACH  
AD2645'END OF RUNWAY 05. OWNERSHIP--BOCA RATON AIRPORT AUTHORITY, 3700

AD2645'AIRPORT ROAD, SUITE 204, BOCA RATON, FL 33431. AIRPORT

AD2645'SUPERINTENDENT-DON CURRIE, PHONE (407) 391-2202. PERMISSION MUST BE  
AD2645'OBTAINED BEFORE ENTERING AIRPORT. TO REACH THE STATION FROM THE

AD2645'JUNCTION OF GLADES ROAD AND AIRPORT ROAD (ABOUT 0.25 MI (0.40 KM) EAST  
AD2645'OF THE INTERSTATE HIGHWAY 95 AND GLADES ROAD INTERCHANGE EXIT 39) , GO

AD2645'NORTHEASTERLY ON AIRPORT ROAD FOR 1.4 MI (2.3 KM) TO A PAVED ROAD

AD2645'RIGHT, TURN RIGHT AND GO SOUTHEAST ON PAVED ROAD FOR 0.1 MI (0.2 KM)

AD2645'TO A GATE ON THE SOUTHWEST SIDE OF THE TERMINAL, PASS THROUGH GATE AND

AD2645'GO SOUTHEAST ACROSS THE APRON FOR 0.1 MI (0.2 KM) TO A PARALLEL

AD2645'TAXIWAY, TURN LEFT AND GO NORTHEAST ON THE PARALLEL TAXIWAY FOR 0.2 MI

AD2645'(0.3 KM) TO A GRAVEL PERIMETER ROAD AHEAD, CONTINUE AHEAD AND GO

AD2645'NORTHEAST ON THE GRAVEL ROAD FOR 0.15 MI (0.24 KM) TO A GATE AHEAD AND

AD2645'A ROAD TURN RIGHT, TURN RIGHT AND GO SOUTHEAST FOLLOWING THE GRAVEL

AD2645'ROAD FOR 0.1 MI (0.2 KM) TO A CURVE RIGHT, TURN RIGHT AND GO SOUTHWEST

AD2645'FOLLOWING THE GRAVEL ROAD FOR 0.5 MI (0.8 KM) TO A WINDSOCK POLE,

AD2645'CONTINUE AHEAD AND GO SOUTHWEST ON THE GRAVEL ROAD FOR 0.55 MI (0.89

AD2645'KM) TO THE STATION ON THE RIGHT. THE STATION IS A CGS BENCH MARK DISK

AD2645'SET INTO A ROUND CONCRETE POST, ACCESS IS HAD THROUGH A PVC PIPE,

AD2645'201.8 FT (61.5 M) SOUTHEAST OF THE RUNWAY CENTER, 117.9 FT (35.9 M)

AD2645'SOUTHEAST OF THE SOUTHEASTERNMOST THRESHOLD LIGHT AND 97.7 FT (29.8 M)

AD2645'NORTHWEST OF THE PERIMETER FENCE. THIS STATION IS DESIGNATED AS A

AD2645'SECONDARY AIRPORT CONTROL STATION (SACS) .

AD2645

AD2645 STATION RECOVERY (2001)

AD2645

AD2645'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2001 (WRV)

AD2645'RECOVERED IN GOOD CONDITION.

AD2645

AD2645 STATION RECOVERY (2004)

AD2645

AD2645'RECOVERY NOTE BY US POWER SQUADRON 2004 (AAS)

AD2645'RECOVERED IN GOOD CONDITION.

\*\*\* retrieval complete.

Elapsed Time = 00:00:02