```
tcwd well.met
  Identification_Information:
             Ci tati on:
                       Citation_Information:
                                  Originator: Ben R. Homola(comp.)
                                  Publication_Date: Unpublished material
Ben R. Homola
                                  Publication_Time: Unknown
Title: S.F.W.M.D. Wells TCWD, RUCK, TCS2, & TC01
McKim & Creed
                                  Edition: 1
                                  Publication_Information:
                                            Publication_Place: Not published
                                            Publisher: None
             Description:
                       Abstract:
                                  South Florida Water Management District
                                  Wells TCWD, RUCK, TSC2, & TCO1
                       Purpose:
 Purpose
                                  To establish NAVD 88 and NGVD 29 elevations on the
                                  wells platforms at the reference marks and the staff
                                  gauges.
                                  Ĕstăblish nearby site benchmarks if there are none
                                  avai I abl e.
                                  Establish State Plane Coordinates on the wells and
                                  benchmarks.
             Time_Period_of_Content:
                       Time_Period_Information:
                                  Range_of_Dates/Times:
 Survey Date
                                            Beginning_Date: 20050428
                                            Ending_Date: 20050526
                       Currentness_Reference: Date of field work
             Status:
                       Progress: Complete
                       Maintenance_and_Update_Frequency: Unknown
             Spati al _Domai n:
                       Boundi ng_Coordi nates:
                                  West_Bounding_Coordinate: -080°52'20.49"
                                  East_Bounding_Coordinate: -080°48'53.41"
                                  North_Bounding_Coordinate: +27°24'04.17"
                                  South_Boundi ng_Coordi nate: +27°17' 45. 13"
             Keywords:
                       Theme:
                                  Theme_Keyword_Thesaurus: None
Theme_Keyword: Record Survey
Theme_Keyword: Well Sites
                       PI ace:
                                  Place_Keyword_Thesaurus: None
                                 Place_Keyword_Inesaurus: None
Place_Keyword: S.F.W.M.D. Wells TCWD, RUCK, TCS2, & TCO1
Place_Keyword: TCWD - Sec. 34, Twp. 36 S., Rge. 35 E.
Place_Keyword: RUCK - Sec. 32, Twp. 35 S., Rge. 35 E.
Place_Keyword: TCS2 - Sec. 6, Twp. 36 S., Rge. 35 E.
Place_Keyword: TCO1 - Sec. 27, Twp. 35 S., Rge. 35 E.
Place_Keyword: Okeechobee County, Florida
Place_Keyword: Florida
                                  Place_Keyword: Florida
             Access_Constraints:
                       There is no access constraints getting to Wells TCWD &
                       TC01.
                       There is a locked gate on the north side of NW 144th
                       Drive at the entrance to a dairy pasture getting to Well
                       Ruck's.
                       There is a locked gate on the south side of a drainage canal 0.1 mi. south along gravel road from the west end of 141st St. getting to Well TCS2.
See point of contact for key.
             Use Constraints:
                       There are keyed locks on the wells at RUCK & TCO1.
                       There are combo locks on the wells at TCWD & TCS2.
                       See point of contact for key and combo.
```

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Contact\_Person\_Pri mary:

### Elvie D. Ebanks tcwd well.met Contact\_Person: Elvie D. Ebanks **SFWMD** Contact\_Organization: South Florida Water Management District Contact\_Position: Professional Surveyor & Mapper Contact\_Address: Address\_Type: mailing and physical address Address: 8894 Belvedere Road City: West Palm Beach State\_or\_Province: Florida Postal \_Code: 33411 Country: USA Contact\_Voi ce\_Tel ephone: 561-753-2400 Ext. 4717 (W), 561-389-9455 (M)Contact\_Facsimile\_Telephone: (561) 791-4093 Contact\_Electronic\_Mail\_Address: eebanks@sfwmd.gov Hours\_of\_Service: 8:00 am to 5:00 pm EST Data\_Quality\_Information: Attri bute\_Accuracy: Attri bute\_Accuracy\_Report: This survey was prepared using GPS and Leveling instruments. The horizontal location of the wells and benchmarks were performed using GPS. The vertical data was collected using a Trimble Dini 12 Digital level and a Wild NA2 level. Coordinates are based on the Florida State Plane Coordinate System, East Zones, NAD 83. Elevations are based on NAVD 88 and NGVD 29. Logical\_Consistency\_Report: Horizontal data was established using the Coast Guard Beacon Station at Tampa, Florida. Vertical data was established using NGS control points Obannon & Obannon 2 at TCWD, T 502 & U 502 at RUCK & TCS2, and E 563 & TCB 14 at TCO1. Completeness\_Report: WELL TCWD **Project Results** Horizontal location taken at approximate center of well. Lat. $+27^{\circ}17'$ 45.14" **TCWD Well** Long. -080°49' 31. 21" N 1Ŏ76765 E 712891 (Florida East Zone, NAD 83) Existing reference mark on wood platform is a black "Square" with an elevation of 29.23' dated 2/14/96 with no initials. New reference mark leveled elevations. 27. 90' (NAVD 88) 29.16' (NGVD 29) based on the NGS NGVD 29 adjustment of the CERP network for Q 22 and W 502. A prorated value was determined between these points based on distance and then applied to the location of The staff gauge is a few feet north of the well and has an actual elevation at the top of the staff of 26.66'. New leveled elevations on top of staff. 25.40' (NAVD 88) 26.66' (NGVD 29) based on the NGS NGVD 29 adjustment of the CERP network for Q 22 and W 502. A prorated value was determined between these points based on distance and then applied to the location of TCWD. WELL TCWD SITE BENCHMARK. **TCWD Benchmark TCWD**

TCWD
The mark is located 4 miles north of the City of
Okeechobee. To reach station from the intersection of
U.S. 98/441 and U.S. 98/70 in Okeechobee, Go north on
U.S. 441 for 4.25 mi. to south most paved delivery
entrance drive to Eckerd Youth Development Center,
thence east on entrance road for 0.05 mi. to T-intersection,

tast on entrance road for 0.05 ml. to 1-inters

thence south and southeast along paved road for 0.4 mi. to a T-intersection, thence southwest along paved drive for 200 feet to end of drive, thence continue southwest across open grass field for 0.1 mi. to grass trail along a drainage canal, thence continue southwest along grass trail for 0.2 mi. to end of trail and mark on left, a SFWMD 3½ inch brass disk set in top of a round concrete monument flush with the ground. Located 18.5 feet west of center of monitoring well, 12.3 feet southwest of the northwest corner of wood deck for well equipment, 4.0 feet northwest of top of bank of canal, 7.0 feet north of a carsonite witness post, 1.2 feet southeast of a buried magnet 0.4-foot below grade. Hori zontal | location. Lat. +27°17' 45.13" Long. -080°49' 31.42" Q22 0.385m W502 0.3699m N 1Ŏ76764 1.238' difference+/-E 712872 (Florida East Zone, NAD 83) New leveled elevations. Corpscon 22. 136' (NAVD 88) 1.493 (NGVD 29) based on the NGS NGVD 29 23. 40' adjustment of the CERP network for Q 22 and W 502. A prorated value was determined between these points based on distance and then applied to the location of TCWD.

### Ruck Wells Report

X X

RUCK WELLS Horizontal location taken at approximate center of Well GW1. Lat. +27°22'54.95" Long. -080°50'48.80" N 1108040 E 705853 (Florida East Zone, NAD 83) Existing reference mark on wood platform is a black "X Square" with an elevation of 44.51' with no date or initials. New reference mark leveled elevations. 43.24' (NAVD 88) 44.46' (NGVD 29) based on the NGS NGVD 29 adjustment of the CERP network for U 502. Horizontal location taken at approximate center of Well GW2. Lat. +27°22'54.89" Long. -080°50'48.82" N 1108034 E 705851 (Florida East Zone, NAD 83) Existing reference mark on wood platform is a black "X Square" with an elevation of 43.95' with no date or initials. New reference mark leveled elevations. (NAVD 88) 42. 68' 43.90' (NGVD 29) based on the NGS NGVD 29 adjustment of the CERP network for U 502. Horizontal location taken at approximate center of Well GW3 (N. 2" well). Lat. +27°22'54.93" Long. -080°50'48.72" N 1108038 E 705860 (Florida East Zone, NAD 83) Existing reference mark is a "V notch" in top of 2" PVC pipe underneath a cap and has an elevation of 44.25' with no date or initials. New reference mark leveled elevations. 43.00' (NAVD 88) (NGVD 29) based on the NGS NGVD 29 adjustment of the CERP network for U 502.

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Horizontal location taken at approximate center of Well GW4 (S. 2" well).
Lat. +27°22'54.86"
Long. -080°50'48.75"
N 1108031
E 705858 (Florida East Zone, NAD 83)
Existing reference mark is a "V notch" in top of 2" PVC pipe underneath a cap and has an elevation of 44.02' with no date or initials.
New reference mark leveled elevations.
42.64' (NAVD 88)
43.86' (NGVD 29) based on the NGS NGVD 29 adjustment of the CERP network for U 502.

#### **Ruck Benchmark**

WELL RUCK SITE BENCHMARK. **RUCK** The mark is located 10 miles north of the City of Okeechobee. To reach station from the intersection of U.S. 98/441 and U.S. 98/70 in Okeechobee, Go north on U.S. 441 for 9.2 mi. to junction of NW 144th Drive (Potter Rd. / C.R. 68A) on left, turn left on NW 144th Drive and go west for 2.25 mi. to a dirt entrance on the right into a dairy cattle pasture and a locked gate, turn right on dirt trail and go north through locked gate for 300-feet, thence go northeast across pasture leaving dirt trail for 0.25 mi to the northwest corner of a large wooded wetlands, thence go east along north side of wetlands for 0.1 mi. to the northeast corner of wetlands, thence go southeast for 0.1 mi. to the middle of pasture and a fenced pen around a well site and the mark centered between four wells, a SFWMD 3½ inch brass disk set in the top of a round concrete monument flush with the ground. Located 5.3 feet southeast of the center of well GW1, 4.6 feet northeast of the center of well GW2, 3.9 feet southwest of the center of well GW3, 4.1 feet northwest of the center of well GW4, 3.5 feet southeast of a carsonite witness post, 1.2 feet north of a buried magnet 0.4-foot below grade. Horizontal Location. Lat. +27°22'54.91 Long. -080°50'48.77" N 1108036 E 705856 (Florida East Zone, NAD 83) New leveled elevations. 39.134' (NAVD 88) 40.35' (NGVD 29) based on the NGS NGVD 29 adjustment of the CERP network for U 502.

### TCS2 Well Report

Х

WELL TCS2 Horizontal location taken at approximate center of well. Lat. +27°21'52.85' Long. -080°52' 20. 49" N 1101760 E 697594 (Florida East Zone, NAD 83) Existing reference mark on plastic platform is a black X Square" with an elevation of 32.49' dated 04/16/97 with initials LH/AW New reference mark leveled elevations. 31. 07' (NAVD 88) 32.29' (NGVD 29) based on the NGS NGVD 29 adjustment of the CERP network for U 502. There is no staff gauge. WELL TCS2 SITE BENCHMARKS.

## TCS2 Benchmarks

X TCS2
The mark is located 10 miles north, northwest of the City of

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Okeechobee. To reach station from the intersection of
U.S. 98/441 and U.S. 98/70 in Okeechobee, Go north on
U.S. 441 for 9.2 mi. to junction of NW 144th Drive (Potter
Rd. / C.R. 68A) on left, turn left on NW 144th Drive and go
west for 1.1 mi. to junction of NW 9th Terr. on left, turn left on NW 9th Terr. and go south for 0.15 mi. to junction of NW 141st St. on right, turn right on NW 141st St. and go west for 0.5 mi. to end of road at gravel road left, turn left on gravel road and go south for 0.1 mi. crossing over a
pipe culvert under road to a grass trail and locked gate on
the right, turn right on grass trail on south side of a drainage
canal and go west, southwest and southeast through locked gate for 2.4 mi. to mark on right, a SFWMD 2 inch alum. disk set in top of the east end of the east concrete end wall of a drainage structure. Located 19.0 feet southwest of centerline of trail, 39.1 feet southeast of center of monitoring well, 24.3 feet southeast of the
southeast corner of wood deck for well equipment, 11.7
feet northeast of a carsonite witness post, 0.4-foot
southwest of the east end of concrete end wall, no magnet
Horizontal Location.
Lat. +27°21'52.73"
Long. -080°52'20.10"
N 1101748
E 697630 (Florida East Zone, NAD 83)
New leveled elevations.
28.008' (NAVD 88)
29. 23'
          (NGVD 29) based on the NGS NGVD 29
adjustment of the CERP network for U 502.
TCS2A
The mark is located 10 miles north, northwest of the City of
Okeechobee. To reach station from the intersection of
U.S. 98/441 and U.S. 98/70 in Okeechobee, Go north on U.S. 441 for 9.2 mi. to junction of NW 144th Drive (Potter
Rd. / C.R. 68A) on left, turn left on NW 144th Drive and go
west for 1.1 mi. to junction of NW 9th Terr. on left, turn left
on NW 9th Terr. and go south for 0.15 mi. to junction of
NW 141st St. on right, turn right on NW 141st St. and go
west for 0.5 mi. to end of road at gravel road left, turn left on gravel road and go south for 0.1 mi. crossing over a pipe culvert under road to a grass trail and locked gate on
the right, turn right on grass trail on south side of a drainage
canal and go west through locked gate for 1.2 mi. to mark
on left, a SFWMD 3½ inch brass disk set in the top of a
round concrete monument 0.4-foot below grade. Located
14.0 feet southeast of centerline of trail, 30.0 feet
southeast of top of bank of canal, 24.1 feet west of carsonite witness post, 56.5 feet north of a blaze in the north face of a 15 inch Oak painted yellow, 1.3 feet east of
a buried magnet 0.4-foot below grade.
Horizontal Tocation.
Lat. +27°22'23.95"
Long. -080°51'41.07"
N 1104904
E 701145 (Florida East Zone, NAD 83)
New leveled elevations.
           (NAVD 88)
29. 665'
30.89' (NGVD 29) based on the NGS NGVD 29 adjustment of the CERP network for U 502.
Х
WELL TCO1
Horizontal location taken at approximate center of well.
Lat. +27°24'01.42
```

Long. -080° 48' 59. 56" N 1114765

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E 715690 (Florida East Zone, NAD 83)
                     Existing reference mark on wood platform is a black
                     "X Square" with an elevation of 63.62' dated 11/24/98
                     with initials EE/BW/SJ.
                     New reference mark leveled elevations.
                            (NAVD 88)
(NGVD 29) based on the NGS NGVD 29
                     adjustment of the CERP network for TCB 14.
                     The staff gauge is a few feet northeast of the well and has
                     an actual elevation at the top of the staff of 56.66'.
                     New leveled elevations on top of staff.
                     55. 30'
                            (NAVD 88)
                            (NGVD 29) based on the NGS NGVD 29
                     56. 51'
                     adjustment of the CERP network for TCB 14.
                     WELL TCO1 SITE BENCHMARK.
 TC01
                     TCB 14
 Benchmark
                     The mark is located 11 miles north of the City of
                     Okeechobee. The mark is a SFWMD survey disk set in top
                     of a concrete straight end wall. See NGS web site for
                     further descriptions for PID No. AJ6116.
                     Horizontal Location.
                     Lat. +27°24' 04.17"
Long. -080°48' 53.41"
                     N 1115044
                     E 716244 (Florida East Zone, NAD 83)
                     Existing elevations.
                             (NAVD 88) as published.
                            (NGVD 29) based on the NGS NGVD 29
                     60. 71'
                     adjustment of the CERP network for TCB 14.
            Positional_Accuracy
                     Hori zontal Posi ti onal Accuracy:
                              Horizontal_Positional_Accuracy_Report:
The horizontal positions of the wells and benchmarks
                                      were established with GPS RTK using Coast Guard
                                       Beacon Station in Tampa in accordance
                                      with the Florida Minimum Technical Standards
                                       (Chapter 61G17-6).
                              Quanti tati ve_Hori zontal _Posi ti onal _Accuracy_Assessment:
                                       Horizontal_Positional_Accuracy_Value: 1 m
Horizontal_Positional_Accuracy_Explanation: The intended
   positional accuracy for this survey is 1 meter.
Vertical_Positional_Accuracy:
                              Verti cal _Posi ti onal _Accuracy_Report:
TCWD Level Line
                                       TCWD
                                      A 2nd order, class II level line was run originating on
   NGS
                                       Obannon with an NAVD 88 elevation and running through
                                       NGS Obannon 2 for a check in accordance with
                                       Florida Minimum Technical Standards (Chapter 61G17-6).
                                       A 2nd order, class II level line was run originating on
   NGS
                                      Obannon 2 with an NAVD 88 elevation and running
                                       through TCWD and back to Obannon 2 in accordance
                                       with Florida Minimum Technical Standards (Chapter
                                       61G17-6).
                                       The NGVD 29 elevations established are based on the
                                       NGS NGVD 29 adjustment of the CERP network for Q 22
                                       and W 502. The differences between (29) & (88) for
                                       Q 22 and W 502 were used and a prorated value
                                       between Q 22 and W 502 was determined based on
                                       distance and then applied to the location of TCWD.
                                      A short level line was run originating on TCWD and running through the well and staff gauge and terminating back into
                                       TCWD ĭn accordance with Floridă Minimum Technicăl
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tcwd well.met Standards (Chapter 61G17-6). Х RUCK A 2nd order, class II level line was run originating on NGS T 502 with an NAVD 88 elevation and running through Rucks NGS U 502 for a check in accordance with Florida Minimum Technical Standards (Chapter 61G17-6). **Level Line** A 2nd order, class II level line was run originating on NGS U 502 with an NAVD 88 elevation and running through RUCK and back to U 502 in accordance with Florida Minimum Technical Standards (Chapter 61G17-6). The NGVD 29 elevations established are based on the NGS NGVD 29 adjustment of the CERP network for U 502. Х A short level line was run originating on RUCK and running through the wells and terminating back into RUCK in accordance with Florida Minimum Technical Standards (Chapter 61G17-6). Х TCS2 **TCS2 Level Line** Х A 2nd order, class II level line was run originating on NGS U 502 with an NAVD 88 elevation and running through TCS2A and TCS2 and back to U 502 in accordance with Florida Minimum Technical Standards (Chapter 61G17-6). The NGVD 29 elevations established are based on the NGS NGVD 29 adjustment of the CERP network for U 502. Х A short level line was run originating on TCS2 and running through the well and terminating back into TCS2 in accordance with Florida Minimum Technical Standards (Chapter 61G17-6). Х x TC01 **TC01** Level Line A 2nd order, class II level line was run originating on NGS E 563 with an NAVD 88 elevation and running through NGS TCB 14 for a check in accordance with Florida Minimum Technical Standards (Chapter 61G17-6). The NGVD 29 elevations established are based on the NGS NGVD 29 adjustment of the CERP network for TCB 14. A short level line was run originating on TCB 14 and running through the well and staff gauge and terminating back into TCB 14 in accordance with Florida Minimum Technical Standards (Chapter 61G17-6). Quanti tati ve\_Verti cal \_Posi ti onal \_Accuracy\_Assessment: Vertical\_Positional\_Accuracy\_Value: 0.77 mm

Vertical\_Positional\_Accuracy\_Explanation: Obannon to
Obannon 2 NAVD 88 level run, 0.77 mm closure in 0.655 km, max. allowed 6.47 mm (FGCS)

Quantitative\_Vertical\_Positional\_Accuracy\_Assessment:

Vertical\_Positional\_Accuracy\_Value: 0.10 mm

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tcwd well.met
                                               Vertical_Positional_Accuracy_Explanation: Obannon 2 to
TCWD to Obannon 2 NAVD 88 level run, 0.10 mm closure in 2.192 km, max. allowed 11.84 mm
(FGCS)
                                   Quanti tati ve_Verti cal _Posi ti onal _Accuracy_Assessment:
Vertical Positional Accuracy_Assessment:

Vertical Positional Accuracy_Value: 1.71 mm

Vertical Positional Accuracy_Explanation: T 502 to U 502

NAVD 88 level run, 1.71 mm closure in 1.597 km, max. allowed 10.11 mm (FGCS)

Quantitative_Vertical_Positional_Accuracy_Assessment:

Vertical_Positional_Accuracy_Value: 0.49 mm

Vertical_Positional_Accuracy_Explanation: U 502 to RUCK to
U 502 NAVD 88 level run, 0.49 mm closure in 1.685 km, max. allowed 10.38 mm (FGCS)
                                    Quanti tati ve_Verti cal _Posi ti onal _Accuracy_Assessment:
Vertical_Positional_Accuracy_Value: 2.99 mm

Vertical_Positional_Accuracy_Explanation: U 502 to TSC2A

to TSC2 to U 502 NAVD 88 level run, 2.99 mm closure in 8.184 km, max. allowed 22.89 mm
(FGCS)
                                    Quanti tati ve_Verti cal _Posi ti onal _Accuracy_Assessment:
                                               Vertical_Positional_Accuracy_Value: 1.37 mm
                                               Vertical_Positional_Accuracy_Explanation: E 563 to TCB 14
NAVD 88 level run, 1.37 mm closure in 0.688 km, max. allowed 6.64 mm (FGCS)
            Li neage:
                        Process_Step:
                                    Process_Description:
                                               The horizontal work was performed using a Trimble GPS Pathfinder Pro XR unit. RTK methodology was used
                                                based on the Coast Guard Beacon Station in Tampa,
                                                The level lines were performed using a Trimble Dini 12
                                                Digital level and a Wild NA2 level.
                                    Process_Date: 20050603
                                    Process_Time: 11000000
Metadata_Reference_Information:
Metadata_Date: 20050603
            Metadata_Contact:
                        Contact_Information:
                                    Contact_Person_Pri mary:
                                                Contact_Person: Ben R. Homola
                                               Contact_Organization: McKim & Creed, P. A.
                                    Contact_Position: Sr. Survey Project Manager
                                    Contact_Address:
                                               Address_Type: mailing and physical address
Address: 6241 Arc Way
                                               City: Fort Myers
                                                State_or_Province: Florida
                                                Postal_Code: 33912
```

Country: USA Contact\_Voi ce\_Tel ephone: (239) 275-8875

Contact\_Facsimile\_Telephone: (239) 275-7029 Contact\_Electronic\_Mail\_Address: bhomola@mckimcreed.com

Hours\_of\_Service: 8:00 am to 5:00 pm EST

Metadata\_Standard\_Name: FGDC Content Standards for Digital Geospatial Metadata
Metadata\_Standard\_Version: FGDC-STD-001-1998

L26742 and L26743 Page 1 of 1

From: Taylor, Ronnie L. [Ronnie.L. Taylor@dep.state.fl.us]

Sent: Wednesday, August 10, 2005 4:53 PM

To: Ben Homola Cc: Ehmke, Howard

**Subject:** L26742 and L26743

Ben.

Sorry for the delay, I have been on vacation and am trying to catch up on everything.

I have reviewed your submittal for leveling to Well TCWD (L26742) and Wells RUCK and TCS2 (L26743). I find everything in good order and is acceptable to me. I will forward it to NGS for final acceptance and inclusion into the National Spatial Reference System. I will request input from HQ on what files have to be submitted, I think that all the files you submitted should be submitted with the exception of the .HA file, which is the same as the .DSC file.

Thank you for all your efforts and assistance in being the Beta tester for the new TRANSLEV program. Your input has been very beneficial to getting the program to work with the TRIMBLE level. We will probably use this submittal to aid in building the necessary (or updating existing) programs to get the information in the NSRS.

Again thank you for all your efforts on these projects. The submittal looks very good.

Ronnie L. Taylor

NOAA, National Geodetic Survey

National Ocean Service Advisor

3900 Commonwealth Blvd., MS105

Tallahassee, Florida 32399

Phone: (850)245-2606

Fax: (850)245-2645

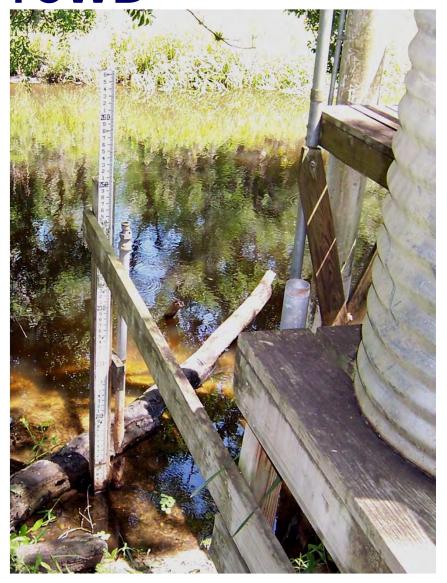
**Email:** Ronnie.Taylor@noaa.gov



McKim & Creed Date of Photo: April 28,2005 View: Looking East at Well Site



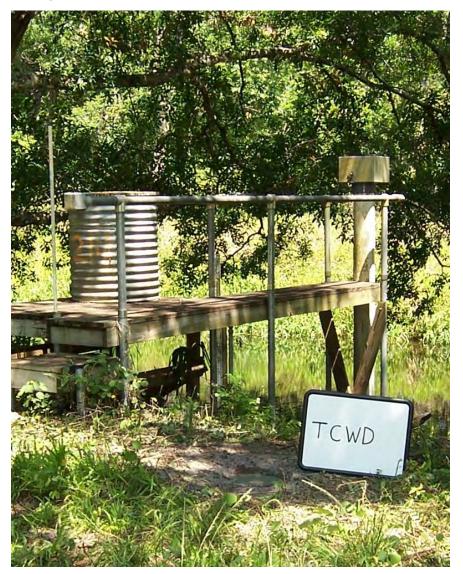
McKim & Creed Date of Photo: April 28, 2005 View: Well Reference Mark







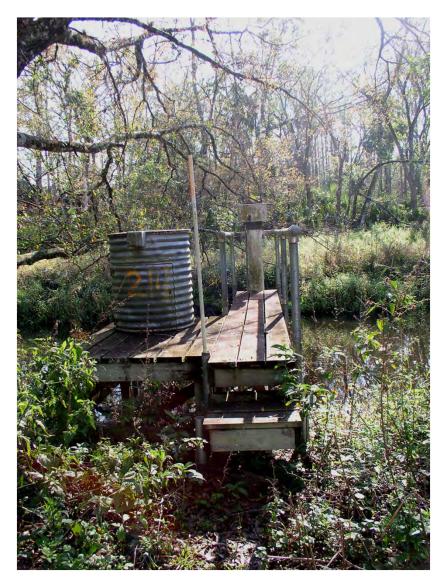
McKim & Creed Date of Photo: April 28, 2005 View: Staff Gauge







McKim & Creed Date of Photo: April 28, 2005 View: Benchmark TCWD



South Florida Water Management District Date of Photo: February 3, 2005 View: Looking Easterly at the site



South Florida Water Management District Date of Photo: February 3, 2005 View: Looking easterly at the recorder box



South Florida Water Management District Date of Photo: February 3, 2005 View: Looking easterly at open recorder box



South Florida Water Management District Date of Photo: February 3, 2005 View: Looking at the reference elevation



South Florida Water Management District Date of Photo: February 3, 2005 View: Looking easterly at the Recorder Box

DATASHEETS Page 1 of 2

### The NGS Data Sheet

```
PROGRAM = datasheet95, VERSION = 8.7.1
       National Geodetic Survey, Retrieval Date = AUGUST 31, 2015
DI8699 DESIGNATION - TCWD
DI8699 PID
              - DI8699
DI8699 STATE/COUNTY- FL/OKEECHOBEE
DI8699 COUNTRY - US
DI8699 USGS OUAD - TAYLOR CREEK SE (1972)
DI8699
DT8699
                              *CURRENT SURVEY CONTROL
DI8699
DI8699* NAD 83(1986) POSITION- 27 17 45. (N) 080 49 31. (W)
                                                                   SCALED
DI8699* NAVD 88 ORTHO HEIGHT -
                                6.747 (meters)
                                                     22.14 (feet) ADJUSTED
DI8699
DI8699 GEOID HEIGHT
                                -26.68 (meters)
                                                                   GEOID12B
DI8699 DYNAMIC HEIGHT -
                                 6.737 (meters)
                                                     22.10 (feet) COMP
DI8699 MODELED GRAVITY - 979,106.7 (mgal)
                                                                   NAVD 88
DI8699
DI8699 VERT ORDER
                    - SECOND CLASS II
DT8699
DI8699. The horizontal coordinates were scaled from a topographic map and have
DI8699.an estimated accuracy of \pm 6 seconds.
DI8699.
DI8699. The orthometric height was determined by differential leveling and
DI8699.adjusted by the NATIONAL GEODETIC SURVEY
DI8699.in January 2008.
DI8699
DI8699.No vertical observational check was made to the station.
DI8699
DI8699.Photographs are available for this station.
DI8699. The dynamic height is computed by dividing the NAVD 88
DI8699.geopotential number by the normal gravity value computed on the
DI8699.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 DI8699.degrees latitude (g = 980.6199 \text{ gals.}).
DI8699
DI8699. The modeled gravity was interpolated from observed gravity values.
DI8699
                                               Units Estimated Accuracy
DI8699;
                          North
                                       East
DI8699; SPC FL E - 328,190.
                                     217,300.
                                                MT (+/-180 \text{ meters Scaled})
DI8699
                               SUPERSEDED SURVEY CONTROL
DI8699
DI8699
DI8699.No superseded survey control is available for this station.
DI8699 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL172192 (NAD 83)
DI8699
DI8699 MARKER: DD = SURVEY DISK
 DI8699 SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
DI8699 STAMPING: TCWD 2005
DI8699 MARK LOGO: SFLWMD
 DI8699 PROJECTION: FLUSH
DI8699 MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
D18699 STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 DI8699+STABILITY: SURFACE MOTION
```

DATASHEETS Page 2 of 2

DI8699 SATELLITE: THE SITE LOCATION WAS REPORTED AS NOT SUITABLE FOR DI8699+SATELLITE: SATELLITE OBSERVATIONS - April 28, 2005 DI8699 HISTORY - Date Condition
DI8699 HISTORY - 20050428 MONUMENTED Report By MCKTM DI8699 STATION DESCRIPTION DI8699 DI8699'DESCRIBED BY MCKIM AND CREED 2005 DI8699'THE STATION IS LOCATED ABOUT 3.7 MI (6.0 KM) NORTH OF OKEECHOBEE, 38.6 DI8699'MI (62.1 KM) EAST SOUTHEAST OF SEBRING, AND 30.5 MI (49.1 KM) WEST D18699'SOUTHWEST OF FORT PIERCE IN SECTION 34, TOWNSHIP 36 SOUTH, RANGE 35 DI8699'EAST. DI8699' DI8699'TO REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY 98/441 AND DI8699'U.S. HIGHWAY 98/STATE HIGHWAY 70 IN OKEECHOBEE, GO NORTH ON HIGHWAY DI8699'441 FOR 4.25 MI (6.84 KM) TO SOUTH-MOST PAVED DELIVERY ENTRANCE DRIVE DI8699'TO ECKERD YOUTH DEVELOPMENT CENTER ON THE RIGHT, TURN RIGHT ON DI8699'ENTRANCE DRIVE AND GO EAST FOR 0.05 MI (0.08 KM) TO A T-JUNCTION, TURN DI8699'RIGHT ON PAVED ROAD AND GO SOUTH AND SOUTHEAST FOR 0.4 MI (0.6 KM) TO DI8699'A T-JUNCTION, TURN RIGHT ON PAVED DRIVE AND GO SOUTHWEST FOR 200 FT D18699'(61 M) TO END OF DRIVE AT GRASS FIELD, CONTINUE SOUTHWEST ACROSS OPEN DI8699'GRASS FIELD FOR 0.1 MI (0.2 KM) TO GRASS TRAIL ALONG A DRAINAGE CANAL D18699'AT SOUTH CORNER OF OPEN GRASS FIELD, CONTINUE SOUTHWEST ALONG GRASS D18699'TRAIL FOR 0.2 MI (0.45 KM) TO END OF TRAIL AND STATION ON LEFT. DI8699' DI8699'THE STATION IS A 3-1/2 INCH (8 CM) BRASS SFLWMD SURVEY DISK SET IN THE DI8699'TOP OF A ROUND CONCRETE MONUMENT FLUSH WITH THE GROUND. LOCATED 18.5 DI8699'FT (5.6 M) WEST OF CENTER OF MONITORING WELL, 12.3 FT (3.7 M) DI8699'SOUTHWEST OF THE NORTHWEST CORNER OF WOOD DECK FOR WELL EQUIPMENT, 4.0 DI8699'FT (1.2 M) NORTHWEST OF THE TOP OF BANK OF CANAL, 7.0 FT (2.1 M) NORTH DI8699'OF A CARSONITE WITNESS POST, AND 1.2 FT (0.4 M) SOUTHEAST OF A BURIED DI8699'MAGNET 0.4 FT (12.2 CM) BELOW GRADE. DI8699'OWNERSHIP - TIITF/HRS-YOUTH SERVICE, 1117 NORTHEAST 39TH BOULEVARD, DI8699'OKEECHOBEE, FLORIDA 34973. \*\*\* retrieval complete.

\*\*\* retrieval complete. Elapsed Time = 00:00:02



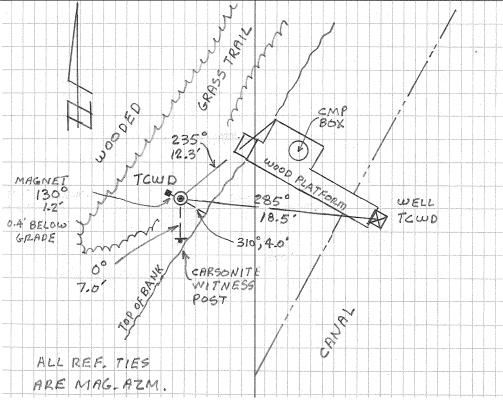
#### SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01

COUNTY: Okeechobee	PROJECT: Well TCWD		DESIGNATION: TCWD	
SECTION 34	TOWNSHIP 36 SOUTH		RANGE 35 EAST	
GEOGRAPHIC INDEX OF QUAD: Florida				
Established by X Recovered by		NAME OF QUADRANGLE:		
McKim & Creed, PA		Taylor Creek SE		
SURVEYOR: Ben R. Homola DATI	<b>E</b> : 4/28/05	FIELD BOOK: STRIVE 6 PAGE: 3		
HORIZONTAL DATUM: Florida State Plane Coordinate System, NAD 83 ZONE: EAST				
VERTICAL DATUM: NAVD 88 & NGVD 29 (NGS NGVD 29 adjustment of the CERP network)				
CONTROL ACCURACY: HORIZONTAL ± 1 meter VERTICAL 2 <sup>nd</sup> order, class II				
STATE PLANE COORDINATES Feet	<b>X</b> 712872	Y 1076764	<b>EL.</b> = 22.136' (NAVD 88)	
1 661	712072	10707	<b>EL.</b> = 23.40' (NGVD 29)	
<b>LATITUDE</b> : 27°17'45.13" <b>LONGITUDE</b> : 080°49'31.42"				
DESCRIPTION				

#### DESCRIPTION

To reach station from the intersection of U.S. 98/441 and U.S. 98/70 in Okeechobee, Go north on U.S. 441 for 4.25 mi. to south most paved delivery entrance drive to Eckerd Youth Development Center, thence east on entrance road for 0.05 mi. to T-intersection, thence south and southeast along paved road for 0.4 mi. to a T-intersection, thence southwest along paved drive for 200 feet to end of drive, thence continue southwest across open grass field for 0.1 mi. to grass trail along a drainage canal, thence continue southwest along grass trail for 0.2 mi. to end of trail and mark on left, a SFWMD 31/2 inch brass disk set in top of a round concrete monument flush with the ground. Located 18.5 feet west of center of monitoring well, 12.3 feet southwest of the northwest corner of wood deck for well equipment, 4.0 feet northwest of top of bank of canal, 7.0 feet north of a carsonite witness post, 1.2 feet southeast of a buried magnet 0.4-foot below grade.



### The NGS Data Sheet

```
AH9321 DESIGNATION - OBANNON
AH9321 PID - AH9321
AH9321 STATE/COUNTY- FL/OKEECHOBEE
AH9321 USGS QUAD - TAYLOR CREEK SE (1972)
 AH9321
                                    *CURRENT SURVEY CONTROL
 AH9321
AH9321* NAD 83(1999) - 27 18 36.72310(N)
AH9321* NAVD 88 - 8.911 (meter
 AH9321
                                                 080 49 32.52531(W)
                                                                              ADJUSTED
                                                                   (feet) ADJUSTED (feet)
                                  8.911 (meters)
                                                           29.24
                             904,204.170 (meters)
                                                                              COMP
 AH9321 X
 AH9321 Y
AH9321 Z
                       - -5,598,636.667 (meters)
                                                                              COMP
                       - 2,908,790.812 (meters)
                                                                              COMP
 AH9321 LAPLACE CORR-
                                 -2.06 (seconds)
                                                                              DEFLEC99
AH9321 ELLIP HEIGHT-
AH9321 GEOID HEIGHT-
AH9321 DYNAMIC HT -
                                   -17.75
                                            (meters)
                                                                (05/31/01) GPS OBS
                                   -26.65
                                                                              GEOID03
                                    8.898 (meters)
                                                           29.19 (feet) COMP
 AH9321 MODELED GRAV-
                            979,110.9 (mgal)
                                                                              NAVD 88
 AH9321
AH9321 HORZ ORDER - FIRST
AH9321 VERT ORDER - FIRST
AH9321 ELLP ORDER - FOURTH
                                       CLASS II
                                      CLASS I
 AH9321
 AH9321. The horizontal coordinates were established by GPS observations
 AH9321.and adjusted by the National Geodetic Survey in May 2001.
 AH9321
 AH9321. The orthometric height was determined by differential leveling
 AH9321.and adjusted by the National Geodetic Survey in May 2004.
 AH9321
 AH9321. The X, Y, and Z were computed from the position and the ellipsoidal ht.
 AH9321
 AH9321. The Laplace correction was computed from DEFLEC99 derived deflections.
 AH9321
 AH9321. The ellipsoidal height was determined by GPS observations
 AH9321.and is referenced to NAD 83.
 AH9321
 AH9321. The geoid height was determined by GEOID03.
 AH9321
AH9321. The dynamic height is computed by dividing the NAVD 88 AH9321. geopotential number by the normal gravity value computed on the AH9321. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AH9321.degrees latitude (g = 980.6199 \text{ gals.}).
 AH9321
 AH9321. The modeled gravity was interpolated from observed gravity values.
 AH9321
 AH9321;
                                North
                                                East
                                                          Units Scale Factor Converg.
AH9321; SPC FL E
                       - 329,786.175 217,251.259 MT 0.99994485 +0 04 47.9
- 3,020,805.635 517,245.373 MT 0.99960367 +0 04 47.9
 AH9321;UTM 17
 AH9321
                       - Elev Factor x Scale Factor =

- 1.00000279 x 0.99994485 =

- 1.00000279 x 0.99960367 =
 AH9321!
                                                                 Combined Factor
                                             0.99994485 = 0.99994764
0.99960367 = 0.99960646
 AH9321!SPC FL E
                                                                 0.99994764
 AH9321!UTM 17
 AH9321
 AH9321:
                           Primary Azimuth Mark
                                                                          Grid Az
                       - OBANNON 2
- OBANNON 2
                                                                           184 35 04.6
 AH9321:SPC FL E
 AH9321:UTM 17
                                                                           184 35 04.6
 AH9321
 AH9321
 AH9321
         PID Reference Object
                                                           Distance Geod. Az
 AH9321
                                                                             dddmmss.s
                                                          APPROX. 0.7 KM 1843952.5
 AH9321 AH9320 OBANNON 2
 AH9321 | -----
 AH9321
 AH9321
                                      SUPERSEDED SURVEY CONTROL
 AH9321
 AH9321 NAD 83(1990) - 27 18 36.72207(N) 080 49 32.52456(W) AD(
                                                                                     ) 1
```

```
ELLIP H (06/01/99) -17.71
                                                                                       ) 4 1
AH9321
                                            (m)
AH9321
AH9321. Superseded values are not recommended for survey control.
AH9321.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AH9321. See file dsdata.txt to determine how the superseded data were derived.
AH9321_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL1724520806(NAD 83)
AH9321_MARKER: F = FLANGE-ENCASED ROD
AH9321_SETTING: 50 = ALUMINUM ALLOY ROD W/O SLEEVE (10 FT.+)
AH9321_STAMPING: O BANNON G.P.S. 1998
AH9321_MARK LOGO: NONE
AH9321_PROJECTION: RECESSED 10 CENTIMETERS
AH9321 MAGNETIC: N = NO MAGNETIC MATERIAL
AH9321_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL AH9321_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AH9321+SATELLITE: SATELLITE OBSERVATIONS - May 30, 2002
AH9321
AH9321
         HISTORY
                       - Date
                                     Condition
                                                         Report By
AH9321 HISTORY
                       - 1998
                                    MONUMENTED
                                                         SFLWMD
                       - 20020530 GOOD
AH9321 HISTORY
                                                         FLDEP
AH9321
                                      STATION DESCRIPTION
AH9321
AH9321
AH9321'DESCRIBED BY S FL WATER MGMT DIST 1998
AH9321'THE STATION IS ABOUT 4.7~\mathrm{MI} (7.6 km) NORTH OF OKEECHOBEE, 28.1 MI AH9321'(45.2 km) EAST SOUTHEAST OF LORIDA, AND 10 MI (16.1 km) NORTHEAST OF
AH9321'THE KISSIMMEE RIVER CANAL C-38 IN SECTION 27, TOWNSHIP 36 SOUTH, RANGE
AH9321'35 EAST. TO REACH STATION FROM THE INTERSECTION OF U.S.HIGHWAY 98/441
AH9321'(PARROT AVE) AND U.S.HIGHWAY 98/STATE HIGHWAY 70 (N.PARK ST) IN
AH9321'OKEECHOBEE, GO NORTH ON HIGHWAY 441 FOR 4.6 MI (7.4 KM) TO THE
AH9321'APPARENT NORTH BOUNDARY OF THE ECKERD YOUTH DEVELOPMENT CENTER (STATE
AH9321'FACILITY) LANDS ON RIGHT AND THE STATION, A 5/8-INCH ALUMINUM ROD AH9321'DRIVEN TO A REPORTED DEPTH OF 27 FT (8.2 M) AND HOUSED INSIDE AN
AH9321'8-INCH PVC PIPE WELL CASING WITH ALUMINUM ACCESS COVER RECESSED 0.4 FT
AH9321'(12.2 CM) BELOW GROUND LEVEL, WITH CONCRETE COLLAR. TOP OF ROD IS
AH9321'0.21 FT (6.40 CM) BELOW THE LEVEL OF THE ACCESS COVER RIM. LOCATED
AH9321'63.0 FT (19.2 M) EAST OF CENTERLINE OF U.S.HIGHWAY 441, 371 FT (113.1
AH9321'M) NORTH OF THE NORTH EDGE OF PAVEMENT OF THE NORTHMOST PAVED ENTRANCE AH9321'DRIVE TO ECKERD YOUTH DEVELOPMENT CENTER, 21.4 FT (6.5 M) SOUTHEAST OF
AH9321'A WOOD CORNER FENCE POST, 94.5 FT (28.8 M) NORTHWEST OF AN 18-INCH AH9321'FORKED PINE TREE, 8.6 FT (2.6 M) SOUTHWEST OF A NORTHWEST-SOUTHEAST
AH9321'BARBWIRE FENCE AND N.G.S.CARSONITE WITNESS POST. RECOVERABLE WITH
AH9321'MAGNETIC LOCATOR, MAGNETIC SOURCE UNKNOWN.
AH9321
AH9321
                                      STATION RECOVERY (2002)
AH9321
AH9321'RECOVERY NOTE BY FL DEPT OF ENV PRO 2002 (JLM)
AH9321'RECOVERED AS DESCRIBED.
AH9321'
*** retrieval complete.
Elapsed Time = 00:00:00
```

### The NGS Data Sheet

```
AH9320 DESIGNATION - OBANNON 2
AH9320 PID - AH9320
AH9320 STATE/COUNTY- FL/OKEECHOBEE
         USGS QUAD - TAYLOR CREEK SE (1972)
 AH9320
 AH9320
                                   *CURRENT SURVEY CONTROL
 AH9320
AH9320* NAD 83(1999) - 27 18 15.51734(N) 080 49 34.46219(W)
AH9320* NAVD 88 - 8 478 (motors)
                                                                          ADJUSTED
                                                         27.81 (feet)
AH9320* NAVD 88
                                                                          ADJUSTED
AH9320
                            904,199.274 (meters)
                                                                           COMP
AH9320 X
                         -5,598,940.381 (meters) 2,908,210.635 (meters)
 AH9320
         Y
                                                                           COMP
AH9320
                                                                           COMP
                                                                           DEFLEC99
AH9320
        LAPLACE CORR-
                               -2.04 (seconds)
        ELLIP HEIGHT-
GEOID HEIGHT-
 AH9320
                                  -18.19
                                         (meters)
                                                             (05/31/01) GPS OBS
AH9320
                                  -26.65
                                                                           GEOID03
                                   8.465 (meters)
AH9320 DYNAMIC HT -
                                                        27.77 (feet) COMP
 AH9320 MODELED GRAV-
                           979,109.2 (mgal)
                                                                          NAVD 88
 AH9320
        HORZ ORDER - FIRST
VERT ORDER - FIRST
ELLP ORDER - FOURTH
AH9320
 AH9320
                                     CLASS II
 AH9320
                                     CLASS I
 AH9320
 AH9320. The horizontal coordinates were established by GPS observations
 AH9320.and adjusted by the National Geodetic Survey in May 2001.
 AH9320
 AH9320. The orthometric height was determined by differential leveling
 AH9320.and adjusted by the National Geodetic Survey in May 2004.
 AH9320
 AH9320. The X, Y, and Z were computed from the position and the ellipsoidal ht.
 AH9320
 AH9320. The Laplace correction was computed from DEFLEC99 derived deflections.
 AH9320
 AH9320. The ellipsoidal height was determined by GPS observations
 AH9320.and is referenced to NAD 83.
 AH9320
 AH9320. The geoid height was determined by GEOID03.
 AH9320
AH9320. The dynamic height is computed by dividing the NAVD 88 AH9320. geopotential number by the normal gravity value computed on the AH9320. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AH9320.degrees latitude (g = 980.6199 \text{ gals.}).
 AH9320
 AH9320. The modeled gravity was interpolated from observed gravity values.
 AH9320
                                          East Units Scale Factor Converg. 217,198.916 MT 0.99994483 +0 04 46.9
 AH9320;
                              North
AH9320; SPC FL E
                           329,133.422
                      - 3,020,153.105 517,193.048 MT 0.99960365
 AH9320;UTM 17
                                                                             +0 04 46.9
 AH9320
                      - Elev Factor x Scale Factor = 1.00000286 x 0.99994483 =
 AH9320!
                                                              Combined Factor
 AH9320!SPC FL E
                                           0.99994483 = 0.99994769

0.99960365 = 0.99960651
                           1.00000286 x
 AH9320!UTM 17
 AH9320
AH9320:
                          Primary Azimuth Mark
                                                                       Grid Az
                                                                       004 35 04.7
AH9320:SPC FL E

    OBANNON

 AH9320:UTM 17

    OBANNON

                                                                       004 35 04.7
AH9320
AH9320
 AH9320
         PID Reference Object
                                                        Distance Geod. Az
 AH9320
                                                                         dddmmss.s
                                                        APPROX. 0.7 KM 0043951.6
AH9320 AH9321 OBANNON
 AH9320 | -----
 AH9320
AH9320
                                    SUPERSEDED SURVEY CONTROL
 AH9320
         NAD 83(1990) - 27 18 15.51630(N) 080 49 34.46136(W) AD(
 AH9320
                                                                                 ) 1
```

```
ELLIP H (06/01/99) -18.16
                                                                                           ) 4 1
AH9320
                                              (m)
AH9320
AH9320. Superseded values are not recommended for survey control.
AH9320.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AH9320. See file dsdata.txt to determine how the superseded data were derived.
AH9320_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL1719320153(NAD 83)
AH9320_MARKER: F = FLANGE-ENCASED ROD
AH9320_SETTING: 50 = ALUMINUM ALLOY ROD W/O SLEEVE (10 FT.+)
AH9320_STAMPING: O BANNON 2 G.P.S. 1998
AH9320_MARK LOGO: NONE
AH9320_PROJECTION: RECESSED 15 CENTIMETERS
AH9320 MAGNETIC: N = NO MAGNETIC MATERIAL
AH9320_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL AH9320_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AH9320+SATELLITE: SATELLITE OBSERVATIONS - May 30, 2002
AH9320
AH9320
         HISTORY
                         - Date
                                       Condition
                                                            Report By
                        - 1998
AH9320
        HISTORY
                                      MONUMENTED
                                                            SFLWMD
AH9320
         HISTORY
                         - 20020530 GOOD
                                                            FLDEP
AH9320
                                        STATION DESCRIPTION
AH9320
AH9320
AH9320'DESCRIBED BY S FL WATER MGMT DIST 1998
AH9320'STATION IS ABOUT 4.3 MI (6.9 KM) NORTH OF OKEECHOBEE, 28.2 MI (45.4
AH9320'KM) EAST SOUTHEAST OF LORIDA, 10 MI (16.1 KM) NORTHEAST OF THE
AH9320 KISSIMMEE RIVER CANAL C-38, IN SECTION 27, TOWNSHIP 36 SOUTH, RANGE 35
AH9320'EAST. TO REACH STATION FROM THE INTERSECTION OF U.S.HIGHWAY 98/441 AH9320'(PARROT AVE) AND U.S.HIGHWAY 98/STATE HIGHWAY 70 (N.PARK ST) IN
AH9320'OKEECHOBEE, GO NORTH ON HIGHWAY 441 FOR 4.25 MI (6.84 KM) TO AH9320'SOUTH-MOST PAVED DELIVERY ENTRANCE DRIVE TO ECKERD YOUTH DEVELOPMENT
AH9320'CENTER (STATE FACILITY) ON RIGHT AND STATION, A 5/8-INCH ALUMINUM ROD AH9320'DRIVEN TO A REPORTED DEPTH OF 31.5 FT (9.6 M) AND HOUSED INSIDE AN
AH9320'8-INCH PVC PIPE WELL CASING WITH ALUMINUM ACCESS COVER RECESSED 0.35
AH9320'FT (10.67 CM) BELOW GROUND LEVEL, WITH CONCRETE COLLAR. TOP OF ROI AH9320'0.25 FT (7.62 CM) BELOW THE LEVEL OF THE ACCESS COVER RIM. LOCATED
                                                                              TOP OF ROD IS
AH9320'97.0 FT (29.6 M) EAST OF CENTERLINE OF U.S.HIGHWAY 441, 14.0 FT (4.3
AH9320'M) SOUTH OF THE CENTERLINE OF THE PAVED DELIVERY ENTRANCE DRIVE AH9320'LEADING EASTERLY, SOUTHEAST OF A METAL GATE ACROSS THE DRIVE AND 37.3 AH9320'FT (11.4 M) EAST OF THE SOUTH 3 FT (0.9 M) HIGH STEEL GATE POST, 3.5
AH9320'FT (1.1 M) SOUTH OF THE SOUTH EDGE OF PAVED DRIVE, 67.3 FT (20.5 M)
AH9320'NORTH OF A 4-INCH PIPE VENT AT THE NORTHEAST CORNER OF A LIFT STATION
AH9320'40.8 FT (12.4 M) NORTH OF A N.G.S. CARSONITE WITNESS POST ADJACENT TO
AH9320'A POWER POLE WITH 3 TRANSFORMERS AND LAMP ATTACHED. RECOVERABLE WITH
AH9320'MAGNETIC LOCATOR, MAGNETIC SOURCE UNKNOWN.
AH9320
AH9320
                                        STATION RECOVERY (2002)
AH9320
AH9320'RECOVERY NOTE BY FL DEPT OF ENV PRO 2002 (JLM)
AH9320'RECOVERED AS DESCRIBED.
AH9320'
*** retrieval complete.
Elapsed Time = 00:00:00
```

DATASHEETS Page 1 of 3

### The NGS Data Sheet

```
PROGRAM = datasheet95, VERSION = 8.7.1
1 National Geodetic Survey, Retrieval Date = SEPTEMBER 2, 2015
AF5554 DESIGNATION - Q 22
AF5554 PID - AF5554
AF5554 STATE/COUNTY- FL/OKEECHOBEE
AF5554 COUNTRY - US
AF5554 USGS QUAD - OKEECHOBEE (1972)
AF5554
AF5554
                             *CURRENT SURVEY CONTROL
AF5554
AF5554* NAD 83(2011) POSITION- 27 14 37.08879(N) 080 49 38.86131(W) ADJUSTED
AF5554* NAD 83(2011) ELLIP HT- -18.257 (meters) (06/27/12) ADJUSTED
AF5554* NAD 83(2011) EPOCH - 2010.00
AF5554* NAVD 88 ORTHO HEIGHT - 8.423 (meters)
                                                27.63 (feet) ADJUSTED
AF5554
AF5554 NAD 83(2011) X - 904,570.970 (meters)
                                                                 COMP
AF5554 NAD 83(2011) Y - -5,602,001.089 (meters)
                                                                 COMP
AF5554 NAD 83(2011) Z - 2,902,234.852 (meters)
                                                                 COMP
AF5554 LAPLACE CORR - -2.14 (seconds)
AF5554 GEOID HEIGHT - -26.67 (meters)
AF5554 DYNAMIC HEIGHT - 8.410 (meters)
AF5554 MODELED GRAVITY - 979,094.4 (mgal)
AF5554 OBS GRAVITY - 979,092.5 (mgal)
                                                                 DEFLEC12B
                                                                 GEOID12B
                                                   27.59 (feet) COMP
                                                                NAVD 88
                                                                 GRAV OBS
AF5554
AF5554 VERT ORDER - FIRST CLASS II
AF5554
AF5554 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AF5554 Standards:
AF5554
         FGDC (95% conf, cm) Standard deviation (cm)
             Horiz Ellip SD N SD E SD h (unitless)
AF5554
AF5554 -----
AF5554 NETWORK 2.28 2.80
                                     0.98 0.86 1.43 -0.26004606
AF5554 -----
AF5554 Click here for local accuracies and other accuracy information.
AF5554
AF5554
AF5554. The horizontal coordinates were established by GPS observations
AF5554.and adjusted by the National Geodetic Survey in June 2012.
AF5554
AF5554.NAD 83(2011) refers to NAD 83 coordinates where the reference
AF5554.frame has been affixed to the stable North American tectonic plate. See
AF5554.NA2011 for more information.
AF5554
AF5554. The horizontal coordinates are valid at the epoch date displayed above
AF5554.which is a decimal equivalence of Year/Month/Day.
AF5554. The orthometric height was determined by differential leveling and
AF5554.adjusted by the NATIONAL GEODETIC SURVEY
AF5554.in November 2001.
AF5554.WARNING-Repeat measurements at this control monument indicate possible
AF5554.vertical movement.
AF5554
AF5554. The X, Y, and Z were computed from the position and the ellipsoidal ht.
AF5554. The Laplace correction was computed from DEFLEC12B derived deflections.
```

DATASHEETS Page 2 of 3

```
AF5554
AF5554. The ellipsoidal height was determined by GPS observations
AF5554.and is referenced to NAD 83.
AF5554. The dynamic height is computed by dividing the NAVD 88
AF5554.geopotential number by the normal gravity value computed on the
AF5554. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AF5554.degrees latitude (g = 980.6199 \text{ gals.}).
AF5554
AF5554. The modeled gravity was interpolated from observed gravity values.
AF5554
AF5554. The observed gravity was obtained from relative gravimeter ties
AF5554.to the IGSN71 gravity network.
AF5554. The following values were computed from the NAD 83(2011) position.
AF5554
AF5554;
                          North
                                        East
                                               Units Scale Factor Converg.
AF5554;SPC FL E
                       322,410.411
                                     217,087.241 MT 0.99994478 +0 04 44.3
                                     712,227.06 sFT 0.99994478
AF5554; SPC FL E
                   - 1,057,774.82
                                                                  +0 04 44.3
AF5554;UTM 17
                   - 3,013,432.387 517,081.411 MT 0.99960360
                                                                   +0 04 44.3
AF5554
AF5554!
                   - Elev Factor x Scale Factor =
                                                       Combined Factor
AF5554!SPC FL E
                       1.00000287 x
                                      0.99994478 =
                                                       0.99994765
AF5554!UTM 17
                       1.00000287 x
                                       0.99960360 =
                                                       0.99960647
AF5554
AF5554
                               SUPERSEDED SURVEY CONTROL
AF5554
AF5554 NAD 83(2007) - 27 14 37.08895(N)
                                          080 49 38.86197(W) AD(2002.00) 0
AF5554 ELLIP H (02/10/07) -18.240 (m)
                                                              GP (2002.00)
AF5554 NAD 83(1999) - 27 14 37.08887(N)
                                           080 49 38.86254(W) AD(
AF5554 ELLIP H (12/12/02) -18.227 (m)
                                                              GP(
                                                                        ) 4 1
AF5554 NAVD 88 (12/12/02)
                             8.42
                                                  27.6
                                                          (f) LEVELING
                                                                          3
                                     (m)
AF5554 NAVD 88 (06/15/91)
                             8.444
                                                  27.70
                                                          (f) SUPERSEDED 1 2
                                     (m)
AF5554 NGVD 29 (09/01/92)
                                                  28.90
                             8.808
                                     (m)
                                                          (f) ADJUSTED
AF5554
AF5554. Superseded values are not recommended for survey control.
AF5554.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AF5554. See file dsdata.txt to determine how the superseded data were derived.
AF5554
AF5554 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL1708113432 (NAD 83)
AF5554
AF5554 MARKER: DB = BENCH MARK DISK
AF5554 SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AF5554 SP SET: SET IN TOP OF CONCRETE MONUMENT
AF5554 STAMPING: 2.530 Q 22 1933
AF5554 MARK LOGO: CGS
AF5554 PROJECTION: PROJECTING 10 CENTIMETERS
AF5554 MAGNETIC: O = OTHER; SEE DESCRIPTION
AF5554 STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AF5554+STABILITY: SURFACE MOTION
AF5554 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AF5554+SATELLITE: SATELLITE OBSERVATIONS - April 17, 2002
AF5554
AF5554 HISTORY
                  - Date
                              Condition
                                               Report By
AF5554 HISTORY
                  - 1933
                              MONUMENTED
                                               CGS
                  - 1962
AF5554 HISTORY
                              GOOD
                                               CGS
                           GOOD
AF5554 HISTORY
                   - 1979
                                               NGS
AF5554 HISTORY
                   - 20010607 GOOD
                                               EMCINC
AF5554 HISTORY
                  - 20010607 GOOD
                                               EMCINC
AF5554 HISTORY
                  - 20020417 GOOD
                                               MAPTEC
AF5554 HISTORY
                   - 20150307 GOOD
                                               GEOCAC
AF5554
AF5554
                               STATION DESCRIPTION
AF5554
AF5554 DESCRIBED BY COAST AND GEODETIC SURVEY 1962
```

DATASHEETS Page 3 of 3

AF5554'AT OKEECHOBEE. AF5554'AT OKEECHOBEE, OKEECHOBEE COUNTY, AT THE CITY HALL LOCATED AT AF5554'THE INTERSECTION OF NORTH PARK AND CHEROKEE STREETS, (12 FEET AF5554'SOUTH OF THE CURB ON NORTH PARK STREET AND 15 FEET EAST OF THE AF5554'CURB ON CHEROKEE STREET.) A STANDARD DISK, STAMPED 28.530 Q 22 AF5554'1933 AND SET IN THE TOP OF A CONCRETE POST PROJECTING 5 INCHES AF5554'ABOVE THE GROUND. NOTE-- USCE 1965 REPORT WITNESSES REPORT AF5554'HAVING SEEN THIS ENTIRE MONUMENT OUT OF GROUND, ON ITS SIDE AF5554'DURING GRADING AND LANDSCAPING OPERATIONS RECENTLY. THE AUSTRALIAN AF5554'PINES REFERRED TO IN PREVIOUS DESCRIPTION ARE GONE. APPARENTLY AF5554'THE CONSTRUCTION WORKERS RESET THE MONUMENT IN ITS PRESENT AF5554'POSITION. AF5554 AF5554 STATION RECOVERY (1979) AF5554 AF5554'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1979 AF5554'RECOVERED IN GOOD CONDITION. AF5554 AF5554 STATION RECOVERY (2001) AF5554 AF5554'RECOVERY NOTE BY EMC INCORPORATED 2001 (WJB) AF5554'RECOVERED IN GOOD CONDITION. NOTE--THE NUMBER 8 IN THE STAMPING CAN AF5554'NO LONGER BE READ. IT HAS BEEN SCRAPED OFF. AF5554' AF5554' AF5554 AF5554 STATION RECOVERY (2001) AF5554 AF5554'RECOVERY NOTE BY EMC INCORPORATED 2001 (WJB) AF5554'RECOVERED AS DESCRIBED. AF5554 AF5554 STATION RECOVERY (2002) AF5554 AF5554'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CDP) AF5554'RECOVERED AS DESCRIBED AF5554' AF5554 AF5554 STATION RECOVERY (2015) AF5554 AF5554'RECOVERY NOTE BY GEOCACHING 2015 (DEB) AF5554'RECOVERED IN GOOD CONDITION.

Elapsed Time = 00:00:03

DATASHEETS Page 1 of 2

From the "ngvd29.txt" file provided by NGS for the CERP Geodetic Vertical Control Project.

Line/Part: L26130 SSN+: mark floated, SSN\*: mark constrained, SSN#: mark floated
& constrained

### The NGS Data Sheet

Mark ID SSN PID Designation 725 0052 AJ6118 W 502

Geopotential Elevation Codes 15.4859 15.8019

```
PROGRAM = datasheet95, VERSION = 8.7.1
       National Geodetic Survey, Retrieval Date = SEPTEMBER 2, 2015
AJ6118 DESIGNATION - W 502
AJ6118 PID - AJ6118
AJ6118 STATE/COUNTY- FL/OKEECHOBEE
AJ6118 COUNTRY - US
AJ6118 USGS QUAD - TAYLOR CREEK NE (1971)
AJ6118
AJ6118
                              *CURRENT SURVEY CONTROL
AJ6118
AJ6118* NAD 83(1986) POSITION- 27 22 31.
                                        (N) 080 49 04.
                                                            (W)
AJ6118* NAVD 88 ORTHO HEIGHT - 15.432 (meters) 50.63 (feet) ADJUSTED
AJ6118
AJ6118 GEOID HEIGHT -
                               -26.64 (meters)
                                                                  GEOID12B
AJ6118 DYNAMIC HEIGHT -
                               15.408 (meters)
                                                    50.55 (feet) COMP
AJ6118 MODELED GRAVITY - 979,128.8 (mgal)
                                                                  NAVD 88
AJ6118
AJ6118 VERT ORDER - FIRST
                                CLASS II
AJ6118
AJ6118. The horizontal coordinates were scaled from a topographic map and have
AJ6118.an estimated accuracy of \pm 6 seconds.
AJ6118.
AJ6118. The orthometric height was determined by differential leveling and
AJ6118.adjusted by the NATIONAL GEODETIC SURVEY
AJ6118.in January 2002.
AJ6118
AJ6118. The dynamic height is computed by dividing the NAVD 88
AJ6118.geopotential number by the normal gravity value computed on the
AJ6118.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AJ6118.degrees latitude (g = 980.6199 \text{ gals.}).
AJ6118. The modeled gravity was interpolated from observed gravity values.
AJ6118
AJ6118;
                         North
                                       East
                                              Units Estimated Accuracy
AJ6118; SPC FL E - 337,000.
                                             MT (+/-180 \text{ meters Scaled})
                                    218,030.
AJ6118
AJ6118
                              SUPERSEDED SURVEY CONTROL
AJ6118
AJ6118.No superseded survey control is available for this station.
AJ6118
AJ6118 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL180280 (NAD 83)
AJ6118
AJ6118 MARKER: F = FLANGE-ENCASED ROD
AJ6118 SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
AJ6118 STAMPING: W 502 2000
AJ6118 MARK LOGO: NGS
AJ6118 PROJECTION: RECESSED 5 CENTIMETERS
AJ6118 MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
AJ6118 STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AJ6118 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AJ6118+SATELLITE: SATELLITE OBSERVATIONS - May 30, 2002
AJ6118 ROD/PIPE-DEPTH: 24.1 meters
AJ6118
AJ6118 HISTORY
                   - Date
                             Condition
                                             Report By
                          MONUMENTED
AJ6118 HISTORY
                   - 2000
                                             FLDEP
AJ6118 HISTORY - 20020530 GOOD
                                             FLDEP
```

DATASHEETS Page 2 of 2

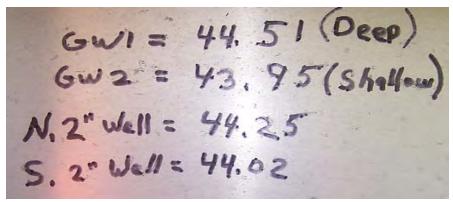
AJ6118 STATION DESCRIPTION AJ6118 AJ6118 AJ6118'DESCRIBED BY FL DEPT OF ENV PRO 2000 (JLM) AJ6118'THE MARK IS ABOUT 9.4 MI (15.1 KM) SOUTH OF FORT DRUM, 9.2 MI (14.8 AJ6118'KM) NORTH OF OKEECHOBEE, IN SECTION 3, TOWNSHIP 36 SOUTH, RANGE 35 AJ6118'EAST. TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY 441 AJ6118'(PARROTT STREET) AND STATE ROAD 70 (PARK STREET) IN OKEECHOBEE, GO AJ6118'NORTH ON U.S. HIGHWAY 441 (PARROTT STREET) FOR 9.2 MI (14.8 KM) TO AJ6118'THE JUNCTION OF NORTHWEST 144TH DRIVE ON THE LEFT (COUNTY ROAD 68A) AJ6118'AND THE MARK ON THE LEFT, A STAINLESS STEEL ROD DRIVEN TO REFUSAL AT A AJ6118'DEPTH OF 79.2 FT (24.1 M) WITH A NGS LOGO CAP RECESSED 0.2 FT (6.1 CM) AJ6118'BELOW THE LEVEL OF THE GROUND AND 1.5 FT (0.5 M) BELOW THE LEVEL OF AJ6118'NORTHWEST 144TH DRIVE, THE DATUM POINT IS RECESSED 0.4 FT (12.2 CM) AJ6118'BELOW THE LEVEL OF THE NGS LOGO CAP. LOCATED 42.8 FT (13.0 M) WEST OF AJ6118'THE CENTERLINE OF U.S. HIGHWAY 441, 38.8 FT (11.8 M) SOUTH OF THE AJ6118'APPROXIMATE CENTERLINE OF NORTHWEST 144TH DRIVE, 4.5 FT (1.4 M) NORTH AJ6118'OF A CARSONITE WITNESS POST AND 1.6 FT (0.5 M) EAST OF A CONCRETE AJ6118'POLE. NOTE ACCESS TO THE DATUM POINT IS HAD THROUGH A 5-INCH NGS LOGO AJ6118'CAP. AJ6118 AJ6118 STATION RECOVERY (2002) AJ6118 AJ6118'RECOVERY NOTE BY FL DEPT OF ENV PRO 2002 (JLM) AJ6118'RECOVERED AS DESCRIBED. AJ6118'

\*\*\* retrieval complete. Elapsed Time = 00:00:02



McKim & Creed Date of Photo: April 28,2005 View: Looking Northeast at Well Site

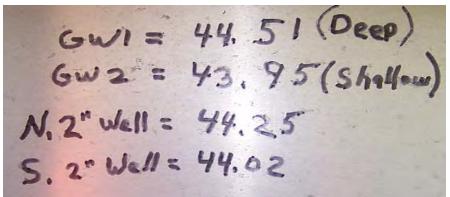




GW1 05-24-05 McKim & Creed Elev. = 43.24' N.A.V.D. 88 Elev. = 44.46' N.G.V.D. 29

McKim & Creed Date of Photo: April 28, 2005 View: Well GW1 Reference Mark

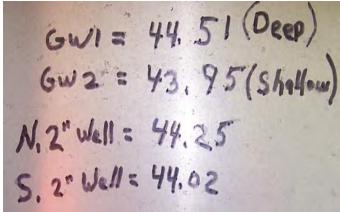




GW2 05-24-05 McKim & Creed Elev. = 42.68' N.A.V.D. 88 Elev. = 43.90' N.G.V.D. 29

McKim & Creed Date of Photo: April 28, 2005 View: Well GW2 Reference Mark

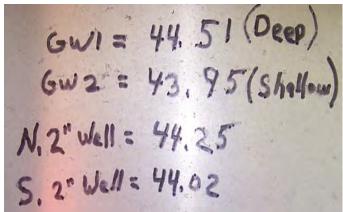




GW3 05-24-05 McKim & Creed Elev. = 43.00' N.A.V.D. 88 Elev. = 44.22' N.G.V.D. 29

McKim & Creed Date of Photo: April 28, 2005 View: Well GW3 Reference Mark





GW4 05-24-05 McKim & Creed Elev. = 42.64' N.A.V.D. 88 Elev. = 43.86' N.G.V.D. 29

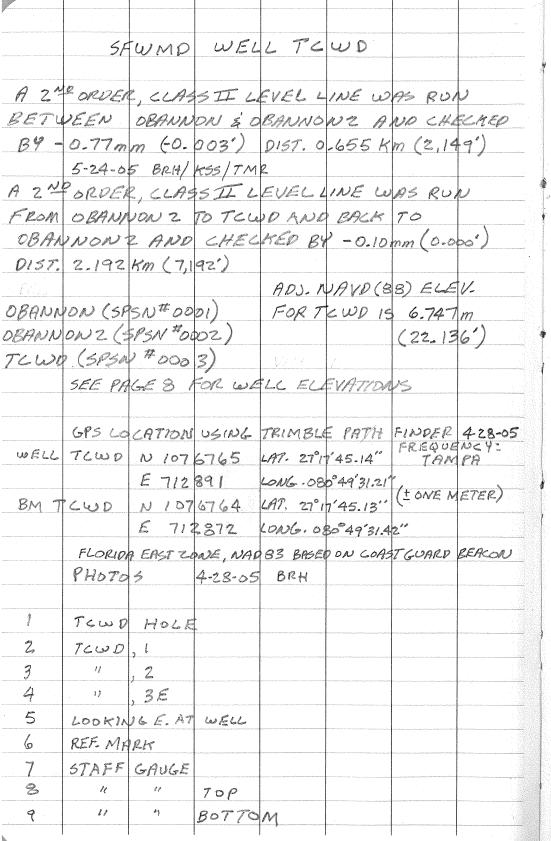
McKim & Creed Date of Photo: April 28, 2005 View: Well GW4 Reference Mark

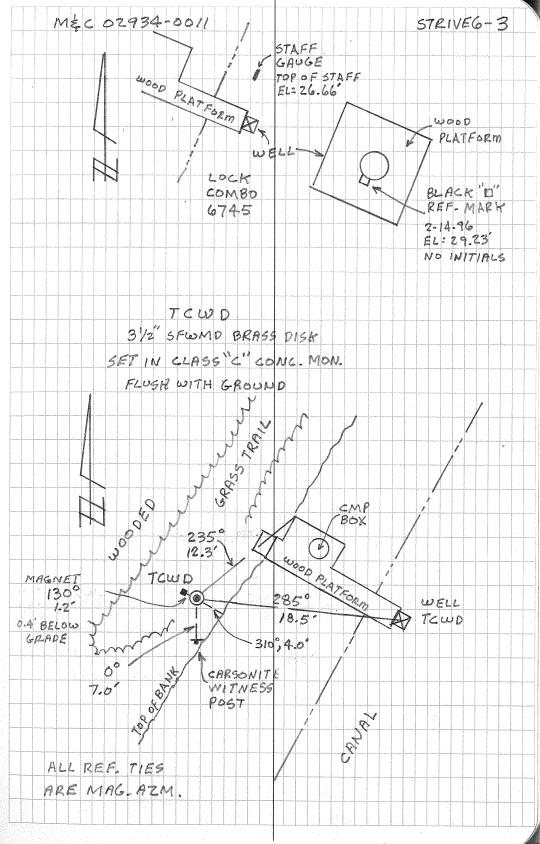




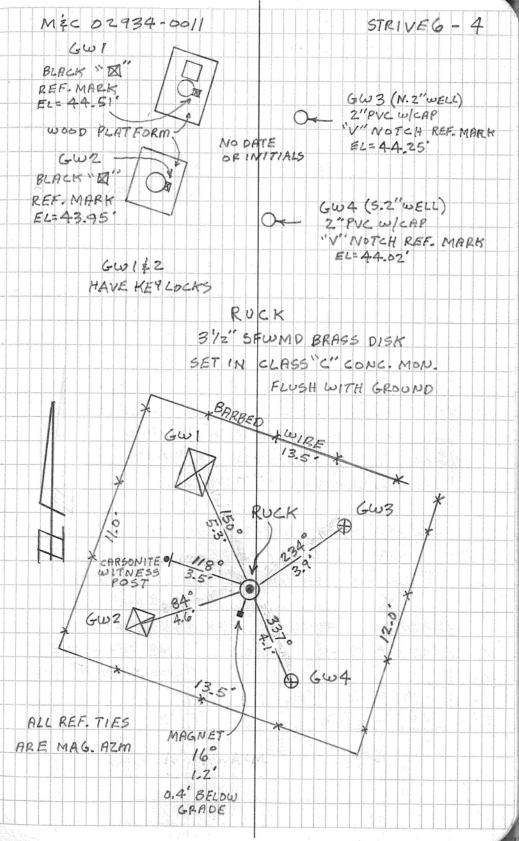


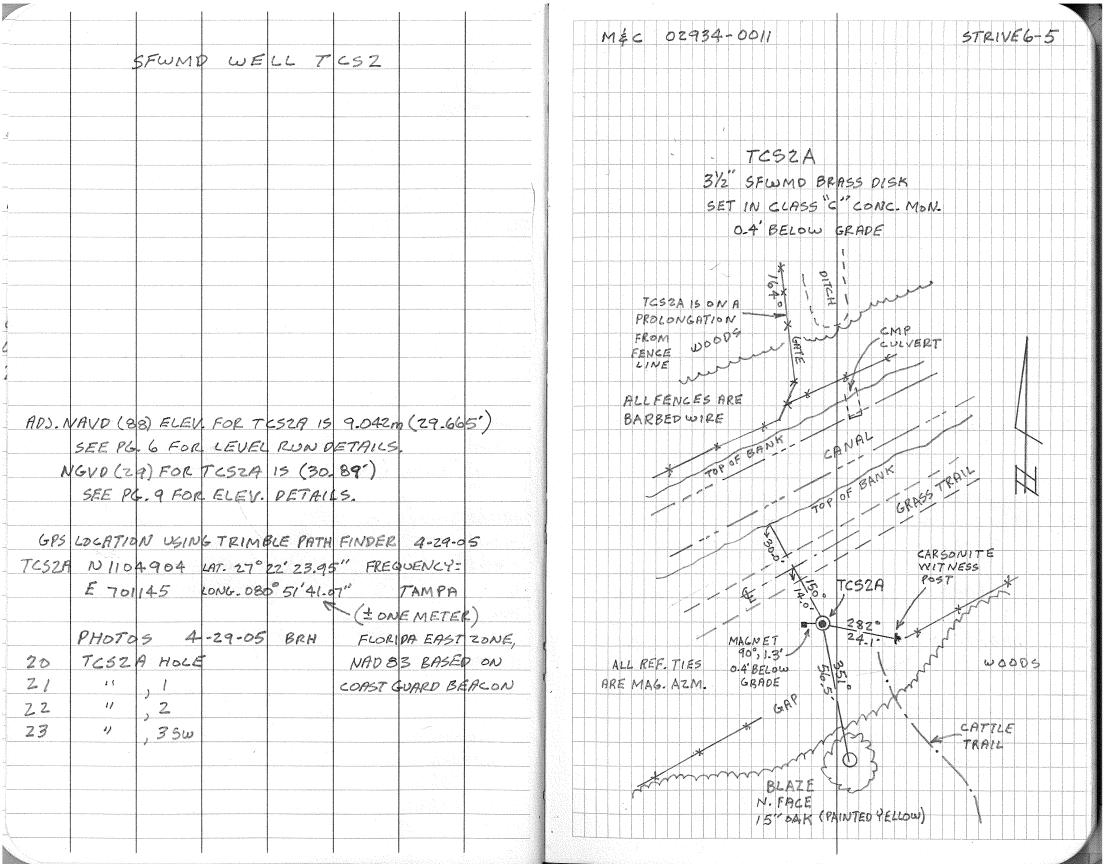
McKim & Creed Date of Photo: April 28, 2005 View: Benchmark RUCK



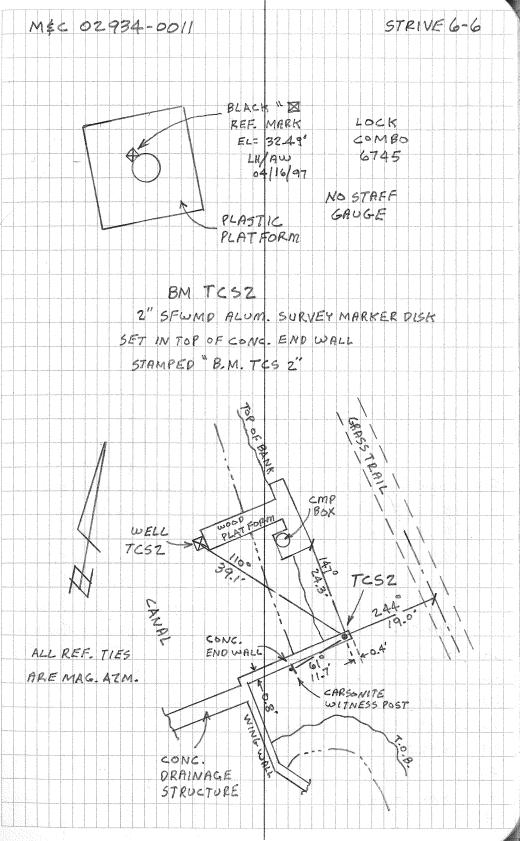


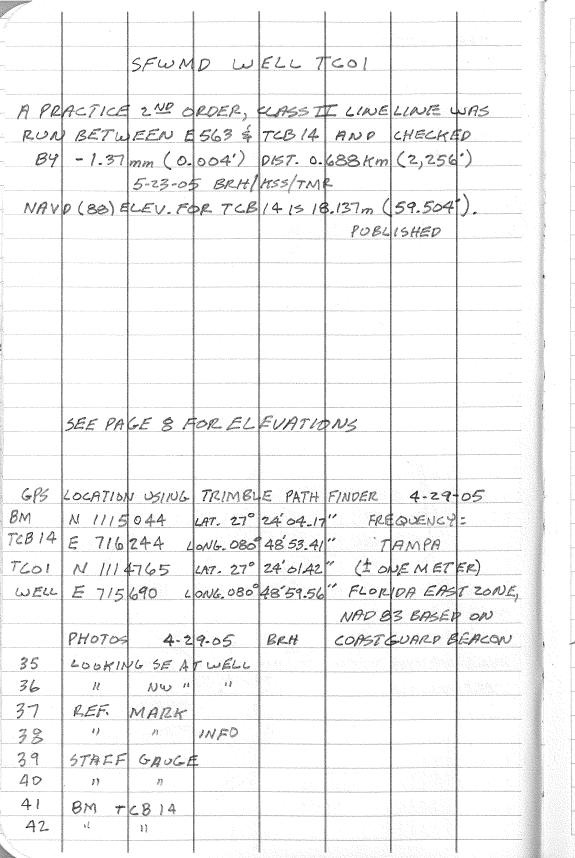
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					ē			MEC 0293	4-0011
SAME STATE OF THE	SFL	MD U	DELL	RUCK				664	
NAME AND POST OF THE OWNER, OF THE OWNER,								BLACK " X"	107
A 2 NE	ORDER,	CLASSII	LEVEL	LINE Le	AS RUN	BETWE	EN	REF. MARK EL= 44.51	100
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TO RUC	KAND	BACK TO	0502	AND CHE	CKED BY	-0.49	m (0.002)	EL=43.95	1
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GP.	5 LOCAT	TON USI	NG TRI	MBLE PI	THFINE	PER 4-2	8-05		RU
RUCK	N 1108	036	LAT. 27°2	2 54.91	FR	EQUEN	64=		3/2"5
	E 705	856	LONG. 080°	56'48.77	""	TAMP	A		SETIN
661	N /108	040	LAT. 27°	22 54.95	= (± ONE	METER)	)	· I I I I I I I I I I I I I I I I I I I	
and the control of th	E 705	353	LONG.080	50 48.80	"T502	(SPSN#	0004)	A control of	BARBE
GW2	N 1108	034	LAT. 27°	22'54.89	" 0502	(SPSN#	0005)		GWI
	E 7058	351	LSWG.080	5648.8	2" RUCK	GPSNI	0006)		
663	N 1108	38	CAT. 27°	22'54.93	"			<i>y</i>	
	E 7058			50'48.72			And There's 1998		
GW4	N 1108	031	UAT. 27°	22 54.86	" FOR R	UCK 15.11	928 m	100	24/02
	E 7058	58	LONG. 080	°50'48.7	6"	(3	9. /34')	W X append	ITE 9 1/80
	PHOTO	5 4-2	8-05	BRH			Doorbives	WITNE POS	
10	RUCK	HOLE	1. 1549		FLORE	DA EAST	TONE,		84°
- 11	RUCK	, 1			NAD	B3 BASA	DON	J GW2	4.6
12	17	, 2	1.4.	ms -	COAST	GUARDE	<i>efacon</i>		
13	12	,3N			-			*	
14	LODKIA	G NE A	TWELL	3		1.54			13.5-
15	REF. MI	PRK GU	21					ALL REF. TIES	
16	11 1/	0 -						ARE MAG. AZM	MAGNET 16
17	\$ } \$ {	Gu			29.31	A. Shire			1.2
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		,	1		·			MANAGE TO SERVICE THE SERVICE	

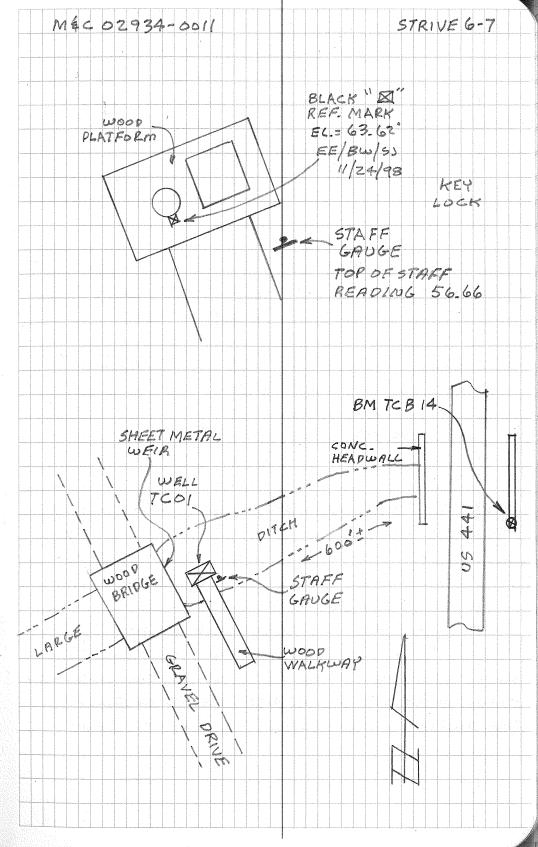




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maneral and commission and the former construction and commission and commission of the second commission and c	IKK .	& W.AT	, 3 5ω	, 2	2, 1	5 4-29					01748	1010 0511	\$8 2.5	GE 7	11			N#00	5N#00	N# 00		1	,		1	\$7652	-, CLASS		SFWM	
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						BRH		52'20.	21 52.85	°52'20-1	21'52.7	BLE PAT		EVATIO	mune,			e de la companya de l				11 7 6	OR TC	RH/KSS	57. 8./8	ACK TO	EL LINE		ELL TO	744-007-007-007-007-007-007-007-007-007-
Version of the second					COAST	NAD 8					s" FRE	H FINDE		2102	5 4 2 ·		-					1	11		1	U502	WAS RI	The State of the S	L 57	
					GUARD B	3 BASE	OA EAST	NE MET			POENCY	R 4-29					2411 30 144	**************************************				1	1			ANDCH	ON FROI		V-10-10-10-10-10-10-10-10-10-10-10-10-10-	
					FACON	POW	100.04 L	ER)			en e	1-05									- CONTRACTOR OF The Interior or All Short Mills and Anthonous Interior and All Sh	1	(28.608		1	ECAED	1 U 50Z		- x	







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			Control of the State of the American State of the State o		5-23-0	5 BRH/HSS/TMR	, 4
and the second s	THE CONTROL OF THE CO				1	) (NGVD29)	
BM	TCB 14				<b>h</b>	60.71	BM TCW
	300'		64.29		and the state of t		2005
		2.49					
			300'	6.73	57.56		TOP OF 57
				0,55			
	**	6.26	63.82				,
		1.02					REF, MAR.
TOPO	STAF			8.52	55.30	56.51	
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REF.	MARK		A control of the cont	1.59	62.23	63.44	BM Tawa
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		5.83					
			and processing and the state of	6-11	57.57		
				1.17			
		6-38	63.95				NGVDCZ
		0.90					NGUDC
BM	TCB14			4.45	59.50	60.71'	
				2.83			THE DI
							BM's a
	Si.	E PAGE	7 FOR	WELL	DETAIL	\$	VALUE
	·						BOOTH
NGVa	(29) EL	EVATION	US ARE E	BASEP O	NTHEN	(65 (NG VDZ9)	
25					1	M TCB 14.	THE DIFF
\$1 · •						5 1-21.	764
	- committee to the control of the co			La constante de Aire			

				STRIVE 6-8
SFWMO	WELL	Teu	D NAVO (85	3) NGVO (29
BM TCWD 5.37	28.01		22.14	
TOP OF STAFF		2.61 4.67	25.40	26.66
ZEF, MARK	T.	Ø-11 7-17	27.90	29-16
0.21 7.07 BM TCWO	28.11	<i>5.</i> 97	22-/4	23.40
SEE PAGE	3 FOR	WELL	OETAL	45
NGVO (29) ELEVAT NGVO (29) AOJUS				
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HUD THEN APPLI				
THE DIFFERENCE B	ETWEEN	(29)	ź (88) .	P7

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		- The second sec			24-05	BRH/H	SS/TMR
a Maria disarka disark	The second secon		den Francisch (d. Machinele in Verdenn von Phart (Machinele Machinele (Machinele Antonio and addebban) (Math				
-		то по може востоя на был швого того основного отности			(NAVD 88	)/NGV02	9)
BM	RUCH					40.35	
ş . A		5.33	44.46		1		
		1.95	1.		,	New West	
GWI	REF. ME	RK		1.22	43.24	44.46	
				6.06			
		1,24	44.48				
		6.04					
6w2	REF. M.	ARK		1.80	42.68	43.90'	
				5.48			
	*	1.88	44.56				
		5.40					
Gw3	REF. N	1ARK		1.56	43.00	44.22	
				5.72			
		1.62	44.62				- 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1
		5.66					
6004	REE. N	1ARK		1.98	42.64	43.86	
				5.30			
		1.91	44.55				
		5,37					
вм	RUCK			5.42	39.13	40.35	
				1.86			
			100				
	SEE	PAGE	1 FOR	WELLS	DETAL	<b>LS</b>	
NGV	D (29) E	LEVATO	OWS ARE	BASED	ONTHEN	JGS (NG	VPZ9)
AOS	USTMEN	OF T	HE CER	PNET	WORK !	AT BM	U50Z.
THE	DIFFER	ENCE BE	TWEE	U (29)\$	(88) 15	1.22	
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		STRIVE 6-9
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3 FUMD WELL;		
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BM 7452		
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4-43 32.44'		
2.85		
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	5.91	
1.36 32-43		
5,92		
BM 7<52		
BM / 43 4	4.42 28.	01' 29.23'
	2.86	
SEE PAGE 6 FO	R WELL DE	TAILS
NGVP (29) ELEVATIONS AR	E BALEDON	THEINS
(NGVD 24) ADJUSTMENT OF	ATHE CERP I	VETWORK
AT BM U502.		
THE DIFFERENCE BETWEEN	U (24)4(88)	15 1.22

DATASHEETS Page 1 of 2

#### The NGS Data Sheet

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

```
PROGRAM = datasheet95, VERSION = 8.7.1
       National Geodetic Survey, Retrieval Date = SEPTEMBER 5, 2015
DJ5115 DESIGNATION - RUCK
DJ5115 PID - DJ5115
DJ5115 STATE/COUNTY- FL/OKEECHOBEE
DJ5115 COUNTRY - US
DJ5115 USGS QUAD - TAYLOR CREEK NE (1971)
DJ5115
DJ5115
                              *CURRENT SURVEY CONTROL
DJ5115
DJ5115* NAD 83(1986) POSITION- 27 22 54. (N) 080 50 48. (W)
DJ5115* NAVD 88 ORTHO HEIGHT - 11.928 (meters) 39.13 (feet) ADJUSTED
DJ5115
DJ5115 GEOID HEIGHT -
                                -26.57 (meters)
                                                                  GEOID12B
                                11.910 (meters)
DJ5115 DYNAMIC HEIGHT -
                                                    39.07 (feet) COMP
DJ5115 DYNAMIC HEIGHT - 11.910 (meter DJ5115 MODELED GRAVITY - 979,132.9 (mgal)
                                                                  NAVD 88
DJ5115
DJ5115 VERT ORDER - SECOND
                                 CLASS II
DJ5115
DJ5115. The horizontal coordinates were scaled from a topographic map and have
DJ5115.an estimated accuracy of \pm 6 seconds.
DJ5115.
DJ5115. The orthometric height was determined by differential leveling and
DJ5115.adjusted by the NATIONAL GEODETIC SURVEY
DJ5115.in January 2008.
DJ5115
DJ5115.No vertical observational check was made to the station.
DJ5115
DJ5115.Photographs are available for this station.
DJ5115
DJ5115. The dynamic height is computed by dividing the NAVD 88
DJ5115.geopotential number by the normal gravity value computed on the
DJ5115.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DJ5115.degrees latitude (g = 980.6199 \text{ gals.}).
DJ5115. The modeled gravity was interpolated from observed gravity values.
DJ5115
DJ5115;
                                       East Units Estimated Accuracy
                          North
DJ5115; SPC FL E - 337,700.
                                   215,170. MT (+/-180 \text{ meters Scaled})
DJ5115
DJ5115
                               SUPERSEDED SURVEY CONTROL
DJ5115
DJ5115.No superseded survey control is available for this station.
DJ5115
DJ5115 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL151287 (NAD 83)
DJ5115
DJ5115 MARKER: DD = SURVEY DISK
DJ5115 SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
DJ5115 STAMPING: RUCK 2005
DJ5115 MARK LOGO: SFLWMD
DJ5115 PROJECTION: FLUSH
DJ5115 MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
DJ5115 STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
DJ5115+STABILITY: SURFACE MOTION
DJ5115 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DJ5115+SATELLITE: SATELLITE OBSERVATIONS - April 29, 2005
```

DATASHEETS Page 2 of 2

DJ5115 HISTORY - Date Condition
DJ5115 HISTORY - 20050429 MONUMENTED Report By MCKIM DJ5115 DJ5115 STATION DESCRIPTION DJ5115 DJ5115'DESCRIBED BY MCKIM AND CREED 2005 DJ5115'THE STATION IS LOCATED ABOUT 9.4 MI (15.1 KM) NORTH OF OKEECHOBEE, DJ5115'35.8 MI (57.6 KM) EAST SOUTHEAST OF SEBRING, AND 30.5 MI (49.1 KM) DJ5115'WEST SOUTHWEST OF FORT PIERCE IN SECTION 32, TOWNSHIP 35 SOUTH, RANGE DJ5115'35 EAST. OWNERSHIP--H.W. RUCKS AND SON DAIRY, INC., P.O.BOX 95, DJ5115'OKEECHOBEE, FL 34973-0095. DJ5115' DJ5115'TO REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY 441 AND DJ5115'STATE ROAD 70 IN OKEECHOBEE, GO NORTH ON U.S. HIGHWAY 441 FOR 9.2 MI DJ5115'(14.8 KM) TO JUNCTION OF NORTHWEST 144TH DRIVE (POTTER ROAD/COUNTY DJ5115'ROAD 68A) ON THE LEFT, TURN LEFT ON NORTHWEST 144TH DRIVE AND GO WEST DJ5115'FOR 2.25 MI (3.6 KM) TO A DIRT ENTRANCE ON THE RIGHT INTO A DAIRY DJ5115'CATTLE PASTURE AND A LOCKED GATE, TURN RIGHT AND GO NORTH THROUGH DJ5115'LOCKED GATE ( NOTE--CALL SFLWMD AT 561-753-2400 TO ACQUIRE KEY) FOR DJ5115'300 FT (91.4 M), THENCE GO NORTHEAST ACROSS PASTURE LEAVING DIRT TRAIL DJ5115'FOR 0.25 MI (0.4 KM) TO THE NORTHWEST CORNER OF A LARGE WOODED DJ5115'WETLAND, THENCE GO EAST ALONG NORTH SIDE OF WETLAND FOR 0.1 MI (0.15 DJ5115'KM) TO THE NORTHEAST CORNER OF WETLAND, THENCE GO SOUTHEAST FOR 0.1 MI DJ5115'(0.15 KM) TO THE MIDDLE OF A PASTURE AND FENCED PENINSULA AROUND A DJ5115'WELL SITE AND STATION CENTERED BETWEEN FOUR MONITORING WELLS. DJ5115'THE STATION IS A 3-1/2 INCH (8 CM) BRASS SFLWMD SURVEY DISK SET IN THE DJ5115'TOP OF A ROUND CONCRETE MONUMENT FLUSH WITH THE GROUND. LOCATED 5.3 DJ5115'FT (1.6 M) SOUTHEAST OF THE CENTER OF WELL GW1, 4.6 FT (1.4 M) DJ5115'NORTHEAST OF THE CENTER OF WELL GW2, 3.9 FT (1.2 M) SOUTHWEST OF THE DJ5115'CENTER OF WELL GW3, 4.1 FT (1.3 M) NORTHWEST OF THE CENTER OF WELL DJ5115'GW4, 3.5 FT (1.1 M) SOUTHEAST OF A CARSONITE WITNESS POST, AND 1.2 FT DJ5115'(0.4 M) NORTH OF A BURIED MAGNET 0.4 FT (12.2 CM) BELOW GRADE.

\*\*\* retrieval complete. Elapsed Time = 00:00:03

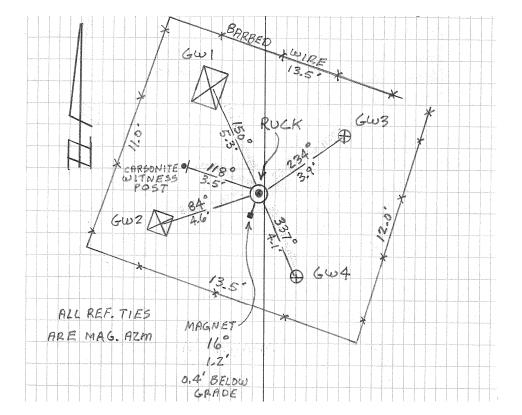


#### SOUTH FLORIDA WATER MANAGEMENT DISTRICT

of a carsonite witness post, 1.2 feet north of a buried magnet 0.4-foot below grade.

Rev. 4/01

COUNTY: Okeechobee	PROJECT: We	ell RUC	K	DESIGN	IATION: RUCK		
SECTION 32	TOWNSHII	P 35 S	OUTH		RANGE 35 EAST		
GEOGRAPHIC INDEX OF QUAD:	Florida						
Established by X Recovered	by	NAME	OF QUADRA	NGLE:			
McKim & Creed, PA			Taylor (	Creek NE			
SURVEYOR: Ben R. Homola DAT	<b>E</b> : 4/28/05	FIELD	BOOK: STR	IVE 6 PA	AGE: 4		
HORIZONTAL DATUM: Florida Stat	te Plane Coordina	te Syste	em, NAD 83	ZONE: E	AST		
VERTICAL DATUM: NAVD 88 & NO	SVD 29 (NGS NG	VD 29 a	djustment of th	ne CERP	network)		
CONTROL ACCURACY: HORIZO	NTAL ± 1 meter	VEF	RTICAL 2 <sup>nd</sup> ord	der, class			
STATE PLANE COORDINATES Feet	<b>X</b> 705856		<b>Y</b> 11080:	26	<b>EL.</b> = 39.134' (NAVD 88)		
reet	703636		11000	30	<b>EL.</b> = 40.35' (NGVD 29)		
<b>LATITUDE</b> : 27°22′54.91" <b>LONGITUDE</b> : 080°50′48.77"							
	DESC	CRIPTIC	ON				
To reach station from the intersection	of U.S. 98/441 an	d U.S.	98/70 in Okeed	chobee, G	o north on U.S. 441 for 9.2		
mi. to junction of NW 144 <sup>th</sup> Drive (Pott	ter Rd. / C.R. 68A)	on left	turn left on N	N 144 <sup>th</sup> D	rive and go west for 2.25 mi.		
to a dirt entrance on the right into a da							
through locked gate for 300-feet, then	•						
corner of a large wooded wetlands, the							
of wetlands, thence go southeast for (							
the mark centered between four wells							
flush with the ground. Located 5.3 fee							
GW2, 3.9 feet southwest of the center	r of well GW3, 4.1	teet no	rtnwest of the	center of v	well GVV4, 3.5 feet		
southeast							



#### The NGS Data Sheet

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

```
AJ6121 DESIGNATION - T 502
AJ6121 PID - AJ6121
AJ6121 STATE/COUNTY- FL/OKEECHOBEE
AJ6121 USGS QUAD - TAYLOR CREEK NE (1971)
 AJ6121
                                        *CURRENT SURVEY CONTROL
 AJ6121
 AJ6121
                                               (N)
                                                       080 51 27.
 AJ6121* NAD 83(1986) - 27 22 57.
                                                                           (W)
                                                                                     SCALED
 AJ6121* NAVD 88
                                     11.588
                                              (meters)
                                                                 38.02
                                                                           (feet)
                                                                                    ADJUSTED
 AJ6121
          GEOID HEIGHT-
 AJ6121
                                      -26.54 (meters)
                                                                                     GEOID03
          DYNAMIC HT -
                                                                  37.96
 AJ6121
                                        11.571 (meters)
                                                                          (feet)
                                                                                    COMP
          MODELED GRAV-
                                 979,134.2
                                                                                     NAVD 88
 AJ6121
                                                (mgal)
 AJ6121
          VERT ORDER - SECOND
                                        CLASS I
 AJT6121
 AJ6121
 AJ6121. The horizontal coordinates were scaled from a topographic map and have
 AJ6121.an estimated accuracy of +/- 6 seconds.
 AJ6121. The orthometric height was determined by differential leveling
 AJ6121.and adjusted by the National Geodetic Survey in January 2002.
 AJ6121
 AJ6121. The geoid height was determined by GEOID03.
 AJ6121
 AJ6121. The dynamic height is computed by dividing the NAVD 88 AJ6121. geopotential number by the normal gravity value computed on the AJ6121. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AJ6121.degrees latitude (q = 980.6199 \text{ gals.}).
 AJ6121
 AJ6121. The modeled gravity was interpolated from observed gravity values.
 AJ6121
                                                              Units Estimated Accuracy MT (+/- 180 meters Scaled)
 AJT6121;
                                                    East
                                   North
 AJ6121; SPC FL E
                               337,790.
                                                 214,100.
 AJ6121
 AJT6121
                                         SUPERSEDED SURVEY CONTROL
 AJ6121
 AJ6121.No superseded survey control is available for this station.
 AJ6121
 AJ6121_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL140288(NAD 83) AJ6121_MARKER: DD = SURVEY DISK
 AJ6121_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 AJ6121_STAMPING: T 502 2000
AJ6121_MARK LOGO: FLDEP
 AJ6121 PROJECTION: RECESSED 8 CENTIMETERS
 AJ6121_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
 {\tt AJ6121\_STABILITY}\colon {\tt C} = {\tt MAY HOLD}, {\tt BUT OF TYPE COMMONLY SUBJECT TO AJ6121+STABILITY}\colon {\tt SURFACE MOTION}
 AJ6121_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 AJ6121+SATELLITE: SATELLITE OBSERVATIONS - May 30, 2002
 AJ6121
 AJ6121 HISTORY
                         - Date
                                        Condition
                                                             Report By
 AJ6121 HISTORY
AJ6121 HISTORY
                         - 2000
                                       MONUMENTED
                                                             FLDED
                         - 20020530 GOOD
                                                             FLDEP
 AJ6121
                                         STATION DESCRIPTION
 AJ6121
 AJ6121
 AJ6121'DESCRIBED BY FL DEPT OF ENV PRO 2000 (JLM)
 AJ6121'THE MARK IS ABOUT 9.5 MI (15.3 KM) SOUTH-SOUTHWEST OF FORT DRUM, 9.4
 AJ6121'MI (15.1 KM) NORTH OF OKEECHOBEE ON NORTHWEST 144TH DRIVE (COUNTY ROAD AJ6121'68A) , IN SECTION 32, TOWNSHIP 35 SOUTH, RANGE 35 EAST. TO REACH THE
 AJ6121'MARK FROM THE INTERSECTION OF U.S. HIGHWAY 441 (PARROTT STREET) AND
 AJ6121'STATE ROAD 70 (PARK STREET) IN OKEECHOBEE, GO NORTH ON U.S. HIGHWAY AJ6121'441 (PARROTT STREET) FOR 9.2 MI (14.8 KM) TO THE JUNCTION OF NORTHWEST AJ6121'144TH DRIVE ON THE LEFT (COUNTY ROAD 68A), TURN LEFT ON NORTHWEST
 AJ6121'144TH DRIVE (COUNTY ROAD 68A) AND GO WEST FOR 2.65 MI (4.26 KM) TO THE
 AJ6121'JUNCTION OF NORTHWEST 30TH TERRACE AND THE MARK ON THE LEFT, SET IN
```

Elapsed Time = 00:00:01

```
AJ6121'TOP OF A ROUND CONCRETE MONUMENT RECESSED 0.3 FT (9.1 CM) BELOW THE AJ6121'LEVEL OF THE GROUND AND 1.0 FT (0.3 M) BELOW THE LEVEL OF NORTHWEST AJ6121'144TH DRIVE. LOCATED 47.8 FT (14.6 M) EAST OF THE APPROXIMATE CENTER AJ6121'OF THE T-JUNCTION OF NORTHWEST 144TH DRIVE AND NORTHWEST 30TH TERRACE, AJ6121'29.7 FT (9.1 M) SOUTH OF THE APPROXIMATE CENTERLINE OF NORTHWEST 144TH AJ6121'DRIVE, 4.1 FT (1.2 M) NORTH OF A BARBWIRE FENCE, 2.9 FT (0.9 M) WEST AJ6121'OF A CARSONITE WITNESS POST AND 2.6 FT (0.8 M) WEST OF POWER POLE AJ6121'NUMBER 5561 WITH 6 GUY WIRES ATTACHED.
AJ6121

STATION RECOVERY (2002)
AJ6121
AJ6121 STATION RECOVERY (2002)
AJ6121
AJ6121'RECOVERY NOTE BY FL DEPT OF ENV PRO 2002 (JLM)
AJ6121'RECOVERED AS DESCRIBED. NOT LEVELED TO THIS DATE.
AJ6121'
AJ6121'
*** retrieval complete.
```

#### The NGS Data Sheet

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

```
AJ6120 DESIGNATION - U 502
AJ6120 PID - AJ6120
AJ6120 STATE/COUNTY- FL/OKEECHOBEE
 AJ6120 USGS QUAD - TAYLOR CREEK NE (1971)
 AJ6120
                                       *CURRENT SURVEY CONTROL
 AJ6120
 AJ6120
                                                     080 50 34.
 AJ6120* NAD 83(1986) - 27 22 33.
                                              (N)
                                                                        (W)
                                                                                  SCALED
 AJ6120* NAVD 88
                                    11.237
                                            (meters)
                                                              36.87
                                                                        (feet)
                                                                                 ADJUSTED
 AJ6120
          GEOID HEIGHT-
 AJ6120
                                     -26.57
                                              (meters)
                                                                                  GEOID03
                                      11.220 (meters)
 AJ6120
          DYNAMIC HT -
                                                               36.81 (feet)
                                                                                 COMP
         MODELED GRAV-
                                979,131.1
                                                                                  NAVD 88
 AJ6120
                                               (mgal)
 AJ6120
          VERT ORDER - SECOND
                                        CLASS I
 AJT6120
 AJ6120
 AJ6120. The horizontal coordinates were scaled from a topographic map and have
 AJ6120.an estimated accuracy of +/- 6 seconds.
 AJ6120
 AJ6120. The orthometric height was determined by differential leveling
 AJ6120.and adjusted by the National Geodetic Survey in January 2002.
 AJ6120
 AJ6120. The geoid height was determined by GEOID03.
 AJT6120
 AJ6120. The dynamic height is computed by dividing the NAVD 88 AJ6120. geopotential number by the normal gravity value computed on the AJ6120. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AJ6120.degrees latitude (g = 980.6199 \text{ gals.}).
 AJ6120
 AJ6120. The modeled gravity was interpolated from observed gravity values.
 AJ6120
                                                            Units Estimated Accuracy MT (+/- 180 meters Scaled)
 AJT6120;
                                                  East
                                 North
 AJ6120; SPC FL E
                              337,060.
                                               215,550.
 AJ6120
 AJT6120
                                        SUPERSEDED SURVEY CONTROL
 AJ6120
 AJ6120.No superseded survey control is available for this station.
 AJ6120
 AJ6120_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL155280(NAD 83) AJ6120_MARKER: DD = SURVEY DISK
 AJ6120 SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 AJ6120_STAMPING: U 502 2000
 AJ6120_MARK LOGO: FLDEP
 AJ6120 PROJECTION: FLUSH
 AJ6120_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
 \mbox{AJ6120\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO AJ6120+STABILITY: SURFACE MOTION
 AJ6120_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 AJ6120+SATELLITE: SATELLITE OBSERVATIONS - May 30, 2002
 AJ6120
 AJ6120 HISTORY
                        - Date
                                      Condition
                                                           Report By
         HISTORY
HISTORY
                        - 2000
 AJ6120
                                      MONUMENTED
                                                           FLDED
 AJ6120
                        - 20020530 GOOD
                                                           FLDEP
 AJ6120
                                        STATION DESCRIPTION
 AJ6120
 AJ6120
 AJ6120'DESCRIBED BY FL DEPT OF ENV PRO 2000 (JLM)
 AJ6120'THE MARK IS ABOUT 9.5 MI (15.3 KM) SOUTH-SOUTHWEST OF FORT DRUM, 9.3
 AJ6120'MI (15.0 KM) NORTH OF OKEECHOBEE ON NORTHWEST 144TH DRIVE (COUNTY ROAD AJ6120'68A) , IN SECTION 33, TOWNSHIP 35 SOUTH, RANGE 35 EAST. TO REACH THE
 AJ6120'MARK FROM THE INTERSECTION OF U.S. HIGHWAY 441 (PARROTT STREET) AND
 AJ6120'STATE ROAD 70 (PARK STREET) IN OKEECHOBEE, GO NORTH ON U.S. HIGHWAY AJ6120'441 (PARROTT STREET) FOR 9.2 MI (14.8 KM) TO THE JUNCTION OF NORTHWEST AJ6120'144TH DRIVE ON THE LEFT (COUNTY ROAD 68A) , TURN LEFT ON NORTHWEST
 AJ6120'144TH DRIVE (COUNTY ROAD 68A) AND GO WEST FOR 1.65 MI (2.66 KM) TO THE
 AJ6120'MARK ON THE LEFT, SET IN THE TOP OF A ROUND CONCRETE MONUMENT FLUSH
```

```
AJ6120'WITH THE GROUND AND 1.0 FT (0.3 M) BELOW THE LEVEL OF NORTHWEST 144TH AJ6120'DRIVE. LOCATED 27.1 FT (8.3 M) SOUTH OF NORTHWEST 144TH DRIVE, 13.7 FT AJ6120'(4.2 M) EAST OF TWO CABLE BOXES NUMBER 36521, 3.3 FT (1.0 M) NORTH OF AJ6120'POWER POLE WITH ONE GUY WIRE ATTACHED, 1.5 FT (0.5 M) EAST OF A AJ6120'BARBWIRE FENCE CORNER AND 1.3 FT (0.4 M) EAST OF A CARSONITE WITNESS AJ6120'POST.

AJ6120 STATION RECOVERY (2002)
AJ6120 STATION RECOVERY (2002)
AJ6120 AJ6120'RECOVERY NOTE BY FL DEPT OF ENV PRO 2002 (JLM)
AJ6120'RECOVERED AS DESCRIBED. NOT LEVELED TO THIS DATE.
AJ6120'
*** retrieval complete.
Elapsed Time = 00:00:00
```

### **Sub-Network 1 Adjusted Elevations**

#### RUCK Level Line between T 502 & U 502

Number of Points : 19 Number of Constrained Points : 2 Elevation Only : 2

Point Name	Northing	N error	Easting	E error	Elevation	e error	Fix
0004 (T 502)	N/A	N/A	N/A	N/A	11.588m	0.000m	e
10004	N/A	N/A	N/A	N/A	11.905m	0.001m	
20004	N/A	N/A	N/A	N/A	11.696m	0.001m	
30004	N/A	N/A	N/A	N/A	11.565m	0.001m	
40004	N/A	N/A	N/A	N/A	11.262m	0.001m	
50004	N/A	N/A	N/A	N/A	11.494m	0.002m	
60004	N/A	N/A	N/A	N/A	11.126m	0.002m	
70004	N/A	N/A	N/A	N/A	11.280m	0.002m	
80004	N/A	N/A	N/A	N/A	11.007m	0.002m	
90004	N/A	N/A	N/A	N/A	10.959m	0.002m	
100004	N/A	N/A	N/A	N/A	11.042m	0.002m	
110004	N/A	N/A	N/A	N/A	11.068m	0.002m	
120004	N/A	N/A	N/A	N/A	11.191m	0.002m	
130004	N/A	N/A	N/A	N/A	11.397m	0.002m	
140004	N/A	N/A	N/A	N/A	11.836m	0.001m	
150004	N/A	N/A	N/A	N/A	12.108m	0.001m	
160004	N/A	N/A	N/A	N/A	11.672m	0.001m	
170004	N/A	N/A	N/A	N/A	11.606m	0.001m	
180004 (U 502)	N/A	N/A	N/A	N/A	11.237m	0.000m	e

### **Sub-Network 2 Adjusted Elevations**

#### RUCK Level Line between U 502 & RUCK

Number of Points : 9 Number of Constrained Points : 1 Elevation Only : 1

Point Name	Northing	N error	Easting	E error	Elevation	e error	Fix
0005 (U 502)	N/A	N/A	N/A	N/A	11.237m	0.000m	e
10005	N/A	N/A	N/A	N/A	11.697m	0.004m	
20005	N/A	N/A	N/A	N/A	11.790m	0.006m	
30005	N/A	N/A	N/A	N/A	11.395m	0.007m	
40005	N/A	N/A	N/A	N/A	11.213m	0.008m	
50005	N/A	N/A	N/A	N/A	11.263m	0.009m	
60005	N/A	N/A	N/A	N/A	11.478m	0.010m	
70005	N/A	N/A	N/A	N/A	11.856m	0.011m	
80005 (RUCK)	N/A	N/A	N/A	N/A	11.928m	0.012m	

### **Sub-Network 3 Adjusted Elevations**

#### RUCK Level Line between RUCK & U 502

Number of Points : 9 Number of Constrained Points : 1 Elevation Only : 1

Point Name	Northing	N error	Easting	E error	Elevation	e error	Fix
0006 (RUCK)	N/A	N/A	N/A	N/A	11.928m	0.012m	
10006	N/A	N/A	N/A	N/A	11.745m	0.011m	
20006	N/A	N/A	N/A	N/A	11.343m	0.010m	
30006	N/A	N/A	N/A	N/A	11.124m	0.009m	
40006	N/A	N/A	N/A	N/A	11.290m	0.008m	
50006	N/A	N/A	N/A	N/A	11.677m	0.007m	
60006	N/A	N/A	N/A	N/A	12.086m	0.006m	
70006	N/A	N/A	N/A	N/A	11.642m	0.004m	
80006 (U 502)	N/A	N/A	N/A	N/A	11.237m	0.000m	e



South Florida Water Management District Date of Photo: February 3, 2005 View: Looking northwesterly at the site



South Florida Water Management District Date of Photo: February 3, 2005 View: Looking Northwesterly at the recorder box



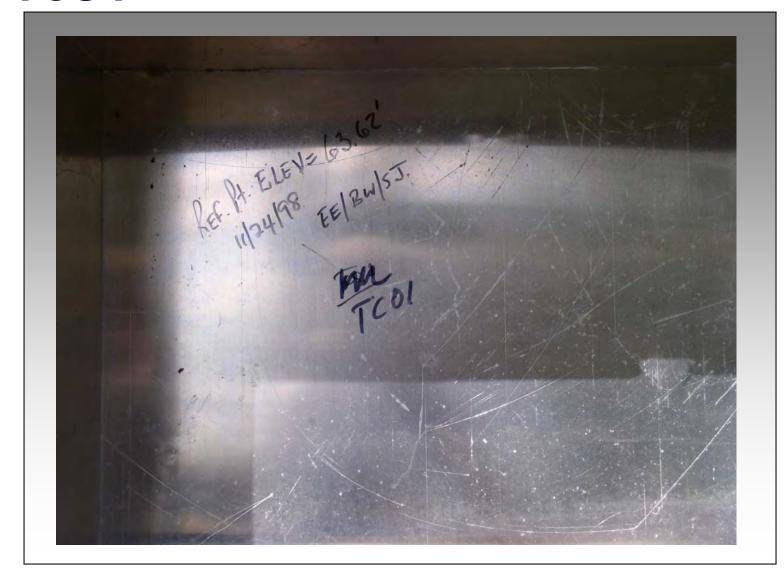
South Florida Water Management District Date of Photo: February 3, 2005 View: Looking northerly at the recorder box



South Florida Water Management District Date of Photo: February 3, 2005 View: Looking northwesterly at the open recorder box



South Florida Water Management District Date of Photo: February 3, 2005 View: Looking northwesterly at the Reference mark



South Florida Water Management District Date of Photo: February 3, 2005 View: Looking northwesterly at the writing on the recorder box lid



South Florida Water Management District Date of Photo: February 3, 2005 View: Looking downstream from the recorder box



South Florida Water Management District Date of Photo: February 3, 2005 View: Looking upstream from the recorder box



South Florida Water Management District Date of Photo: February 3, 2005 View: Looking at the Staff Gauge on the north side of the recorder platform



South Florida Water Management District Date of Photo: February 3, 2005 View: Looking downstream from the recorder box at the weir under the bridge



South Florida Water Management District Date of Photo: February 3, 2005 View: Looking at site bench mark a railroad spike

### THIS SHEET HAS BEEN MODIFIED FROM THE ORIGINAL NGS DATASHEET BY MCKIM & CREED

```
AJ6116 DESIGNATION - TCB 14
AJ6116
       PID
                      AJ6116
AJ6116 STATE/COUNTY- FL/OKEECHOBEE
AJ6116 USGS QUAD
                      TAYLOR CREEK NE (1971)
AJ6116
AJ6116
                              *CURRENT SURVEY CONTROL
AJT6116
AJ6116* NAD 83
                                    (N) 080 48 53.41 (W) Coast Guard Beacon
                      27 24 04.17
AJ6116* NAVD 88
                            18.137
                                                 59.50
                                                        (feet) ADJUSTED
                                   (meters)
AJ6116 NGVD 29
                            18.506 (meters)
                                                 60.72
                                                          (feet)
AJ6116 NGVD 29 elevations based on the NGS (NGVD 29) adjustment of the CERP
AJ6116 network
AJ6116
                             -26.63 (meters)
AJ6116 GEOID HEIGHT-
                                                                 GEOID03
AJ6116 DYNAMIC HT -
                              18.110 (meters)
                                                  59.42 (feet)
                                                                 COMP
AJ6116 MODELED GRAV-
                         979,134.3
                                     (mgal)
                                                                 NAVD 88
AJT6116
AJ6116 VERT ORDER - FIRST
                                CLASS II
A.T6116
AJ6116. The horizontal coordinates were scaled from a topographic map and have
AJ6116.an estimated accuracy of +/- 6 seconds.
AJ6116
AJ6116. The orthometric height was determined by differential leveling
AJ6116.and adjusted by the National Geodetic Survey in January 2002.
AJ6116. The geoid height was determined by GEOID03.
AJ6116
AJ6116. The dynamic height is computed by dividing the NAVD 88
AJ6116.geopotential number by the normal gravity value computed on the
AJ6116.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AJ6116.degrees latitude (g = 980.6199 \text{ gals.}).
AJ6116
AJ6116. The modeled gravity was interpolated from observed gravity values.
AJ6116
AJT6116;
                          North
                                        East
                                               Units
                                                        Accuracy
AJ6116; SPC FL E
                       339,866.
                                     218,312.
                                                 MT (+/-1 \text{ meter})
AJ6116
AJ6116
                               SUPERSEDED SURVEY CONTROL
AJ6116.No superseded survey control is available for this station.
AJ6116
AJ6116_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL182308(NAD 83)
AJ6116 MARKER: DD = SURVEY DISK
AJ6116_SETTING: 32 = SET IN A RETAINING WALL OR CONCRETE LEDGE
AJ6116_SP_SET: HEADWALL
AJ6116_STAMPING: TCB 14 BM 1999
AJ6116 MARK LOGO: SFLWMD
```

```
AJ6116_MAGNETIC: N = NO MAGNETIC MATERIAL
AJ6116_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AJ6116+STABILITY: SURFACE MOTION
AJ6116_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AJ6116+SATELLITE: SATELLITE OBSERVATIONS - May 30, 2002
AJ6116
AJ6116 HISTORY
                   - Date
                             Condition
                                                Report By
AJ6116 HISTORY
                   - 1999
                             MONUMENTED
                                                SFLWMD
AJ6116 HISTORY
                   - 20001103 GOOD
                                                FLDEP
AJ6116 HISTORY - 20020530 GOOD
AJ6116 HISTORY - 20050429 GOOD
                                                FLDEP
                                                MCKIM
AJ6116
AJ6116
                                STATION DESCRIPTION
AJ6116
AJ6116'DESCRIBED BY FL DEPT OF ENV PRO 2000 (JLM)
AJ6116'THE MARK IS ABOUT 11.0 MI (17.7 KM) NORTH OF OKEECHOBEE, 7.6 MI (12.2
AJ6116'KM) SOUTH OF FORT DRUM ON U.S. HIGHWAY 441, IN SECTION 27, TOWNSHIP
AJ6116'35 SOUTH, RANGE 35 EAST. TO REACH THE MARK FROM THE INTERSECTION OF
AJ6116'U.S. HIGHWAY 441 (PARROTT STREET) AND STATE ROAD 70 (PARK STREET) IN
AJ6116'OKEECHOBEE, GO NORTH ON U.S. HIGHWAY 441 (PARROTT STREET) FOR 11.0 MI
AJ6116'(17.7 KM) TO THE MARK ON THE RIGHT, SET FLUSH IN THE SOUTH END OF THE
AJ6116'CONCRETE HEADWALL LEVEL WITH THE GROUND AND 0.5 FT (15.2 CM) BELOW THE
AJ6116'LEVEL OF U.S. HIGHWAY 441. LOCATED 46.5 FT (14.2 M) EAST OF THE
AJ6116'CENTERLINE OF U.S. HIGHWAY 441, 32.8 FT (10.0 M) NORTH OF A
AJ6116'T-JUNCTION IN A BARBWIRE FENCE, 1.2 FT (0.4 M) WEST OF A BURIED CABLE
AJ6116'TELEPHONE SIGN AND 0.5 FT (15.2 CM) NORTH OF A CARSONITE WITNESS POST.
AJ6116
                                STATION RECOVERY (2002)
AJ6116
AJ6116
AJ6116'RECOVERY NOTE BY FL DEPT OF ENV PRO 2002 (JLM)
AJ6116'RECOVERED AS DESCRIBED.
AJT6116'
AJ6116'
                                STATION RECOVERY (2005)
AJ6116
AJT6116
AJ6116'RECOVERY NOTE BY MCKIM & CREED 2005 (BRH)
AJ6116'RECOVERED AS DESCRIBED.
```

AJ6116'

DATASHEETS Page 1 of 2

#### The NGS Data Sheet

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

```
PROGRAM = datasheet95, VERSION = 8.7.1
       National Geodetic Survey, Retrieval Date = AUGUST 31, 2015
DG4287 DESIGNATION - E 563
DG4287 PID
              - DG4287
DG4287 STATE/COUNTY- FL/OKEECHOBEE
DG4287 COUNTRY - US
DG4287 USGS OUAD - TAYLOR CREEK NE (1971)
DG4287
DG4287
                              *CURRENT SURVEY CONTROL
DG4287
DG4287* NAD 83(1986) POSITION- 27 24 25. (N) 080 48 52. (W)
                                                                   SCALED
DG4287* NAVD 88 ORTHO HEIGHT -
                                                    62.31 (feet) ADJUSTED
                                18.993 (meters)
DG4287
DG4287 GEOID HEIGHT
                               -26.64 (meters)
                                                                   GEOID12B
DG4287 DYNAMIC HEIGHT -
                                18.964 (meters)
                                                    62.22 (feet) COMP
DG4287 MODELED GRAVITY - 979,135.5 (mgal)
                                                                  NAVD 88
DG4287
DG4287 VERT ORDER
                    - FIRST CLASS II
DG4287
DG4287. The horizontal coordinates were scaled from a topographic map and have
DG4287.an estimated accuracy of \pm 6 seconds.
DG4287.
DG4287. The orthometric height was determined by differential leveling and
DG4287.adjusted by the NATIONAL GEODETIC SURVEY
DG4287.in May 2004.
DG4287
DG4287. The dynamic height is computed by dividing the NAVD 88
DG4287.geopotential number by the normal gravity value computed on the
DG4287.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DG4287.degrees latitude (g = 980.6199 \text{ gals.}).
DG4287. The modeled gravity was interpolated from observed gravity values.
DG4287
                                               Units Estimated Accuracy
DG4287;
                          North
                                       East
DG4287; SPC FL E - 340,510.
                                               MT (+/-180 \text{ meters Scaled})
                                    218,350.
DG4287
DG4287
                               SUPERSEDED SURVEY CONTROL
DG4287. No superseded survey control is available for this station.
DG4287 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL183315 (NAD 83)
DG4287
DG4287 MARKER: F = FLANGE-ENCASED ROD
DG4287 SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
DG4287 STAMPING: E 563 2002
DG4287 MARK LOGO: NGS
DG4287 PROJECTION: FLUSH
DG4287 MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
DG4287 STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
DG4287 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DG4287+SATELLITE: SATELLITE OBSERVATIONS - June 12, 2002
DG4287 ROD/PIPE-DEPTH: 24.4 meters
DG4287
DG4287 HISTORY - Date Condition
                                              Report By
```

**DATASHEETS** Page 2 of 2

DG4287 HISTORY - 20020612 MONUMENTED FLDEP DG4287 STATION DESCRIPTION DG4287 DG4287 DG4287'DESCRIBED BY FL DEPT OF ENV PRO 2002 (JLM) DG4287'THE MARK IS ABOUT 11.2 MI NORTH OF OKEECHOBEE, 7.0 MI SOUTH OF FORT DG4287'DRUM, IN SECTION 22, DG4287'TOWNSHIP 35 SOUTH, RANGE 35 EAST. DG4287' DG4287'TO REACH THE MARK FROM THE INTERSECTION OF STATE ROAD 70 (U.S. HIGHWAY DG4287'98, PARK STREET) DG4287'AND U.S. HIGHWAY 441 (PARROTT STREET) IN OKEECHOBEE, GO NORTH ON U.S. DG4287'HIGHWAY 441 DG4287'(PARROTT STREET) FOR 10.2 MI TO THE JUNCTION OF COUNTY ROAD 68 (NW DG4287'160TH STREET) ON THE DG4287'LEFT, CONTINUE NORTH ON U.S. HIGHWAY 441 FOR 1.15 MI TO THE MARK ON DG4287'THE LEFT, A STAINLESS DG4287'STEEL ROD DRIVEN TO REFUSAL AT A DEPTH OF 79.9 FT WITH A NGS LOGO CAP DG4287'FLUSH WITH THE DG4287'GROUND AND ABOUT 3.0 FT BELOW THE LEVEL OF U.S. HIGHWAY 441, THE DATUM DG4287'POINT IS RECESSED DG4287'0.2 FT BELOW THE LEVEL OF THE NGS LOGO CAP. DG4287' DG4287'LOCATED 59.4 FT WEST OF THE CENTERLINE OF U.S. HIGHWAY 441, 38.6 FT DG4287'SOUTH OF THE DG4287'CENTERLINE OF 179TH STREET, 2.6 FT SOUTHEAST OF THE NORTHEAST CORNER DG4287'OF THE BARBWIRE DG4287'FENCE AND 1.9 FT EAST OF A CARSONITE WITNESS POST AND BARBWIRE FENCE. DG4287' DG4287'NOTE ACCESS TO THE DATUM POINT IS HAD THROUGH A 5-INCH NGS LOGO CAP. DG4287'

DG4287'

DG4287'NOTE A MAGNET WAS PLACED INSIDE OF THE NGS LOGO CAP.

\*\*\* retrieval complete. Elapsed Time = 00:00:02

### **Adjusted Elevations**

#### TCO1 Level Line between E 563 & TCB 14

Number of Points : 9 Number of Constrained Points : 2 Elevation Only : 2

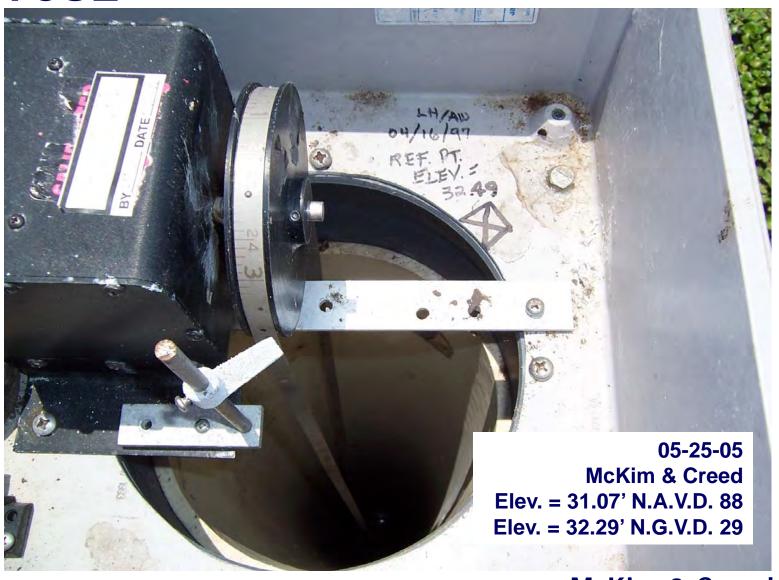
Point Name	Northing	N error	Easting	E error	Elevation	e error	Fix
0009 (E 563)	N/A	N/A	N/A	N/A	18.992m	0.000m	e
10009	N/A	N/A	N/A	N/A	18.688m	0.001m	
20009	N/A	N/A	N/A	N/A	18.561m	0.001m	
30009	N/A	N/A	N/A	N/A	18.453m	0.001m	
40009	N/A	N/A	N/A	N/A	18.082m	0.001m	
50009	N/A	N/A	N/A	N/A	17.916m	0.001m	
60009	N/A	N/A	N/A	N/A	18.030m	0.001m	
70009	N/A	N/A	N/A	N/A	17.492m	0.001m	
80009 (TCB 14)	N/A	N/A	N/A	N/A	18.137m	0.000m	e

# TCS2



McKim & Creed Date of Photo: April 29,2005 View: Looking West at Well Site

# TCS2



McKim & Creed Date of Photo: April 29, 2005 View: Well Reference Mark



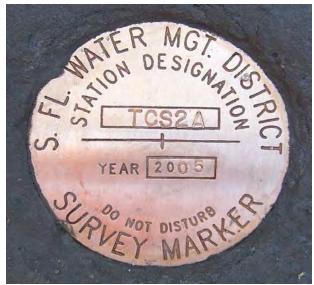




McKim & Creed Date of Photo: April 29, 2005 View: Benchmark TCS2







McKim & Creed Date of Photo: April 29, 2005 View: Benchmark TCS2A



South Florida Water Management District Date of Photo: February 3, 2005 View: Looking westerly at the site



South Florida Water Management District Date of Photo: February 3, 2005 View: Looking at the site bench mark "TCS 2"



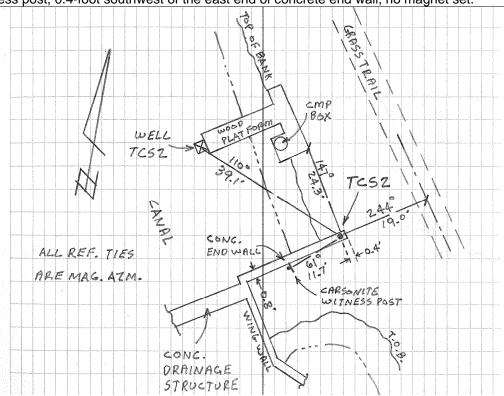
#### SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01

COUNTY: Okeechobee	PROJECT: Well TCS2		DESIGNATION: TCS2					
SECTION 6	TOWNSHIP 36 SOUTH			RANGE 35 EAST				
GEOGRAPHIC INDEX OF QUAD: Florida								
Established by X Recovered by NAME OF QUADRANGLE:								
McKim & Creed, PA			Taylor (	Creek SE				
SURVEYOR: Ben R. Homola DAT	SURVEYOR: Ben R. Homola DATE: 4/29/05 FIELD BOOK: STRIVE 6 PAGE: 6							
HORIZONTAL DATUM: Florida Stat	te Plane Coordina	te Syste	em, NAD 83	ZONE: E	AST			
VERTICAL DATUM: NAVD 88 & NO	GVD 29 (NGS NG)	√D 29 a	djustment of th	ne CERP	network)			
CONTROL ACCURACY: HORIZO	NTAL ± 1 meter	VER	TICAL 2 <sup>nd</sup> ord	der, class	II			
STATE PLANE COORDINATES Feet	<b>EL.</b> = 28.008' (NAVD 88)							
i eet	697630		11017	+0	<b>EL.</b> = 29.23' (NGVD 29)			
<b>LATITUDE</b> : 27°21′52.73" <b>LONGITUDE</b> : 080°52′20.10"								
DESCRIPTION								

To reach station from the intersection of U.S. 98/441 and U.S. 98/70 in Okeechobee, Go north on U.S. 441 for 9.2 mi. to junction of NW 144<sup>th</sup> Drive (Potter Rd. / C.R. 68A) on left, turn left on NW 144<sup>th</sup> Drive and go west for 1.1 mi. to junction of NW 9<sup>th</sup> Terr. on left, turn left on NW 9<sup>th</sup> Terr. and go south for 0.15 mi. to junction of NW 141<sup>st</sup> St. on right, turn right on NW 141<sup>st</sup> St. and go west for 0.5 mi. to end of road at gravel road left, turn left on gravel road and go south for 0.1 mi. crossing over a pipe culvert under road to a grass trail and locked gate on the right, turn right on grass trail on south side of a drainage canal and go west, southwest and southeast through locked gate for 2.4 mi. to mark on right, a SFWMD 2 inch alum. disk set in top of the east end of the east concrete end wall of a drainage structure. Located 19.0 feet southwest of centerline of trail, 39.1 feet southeast of center of monitoring well, 24.3 feet southeast of the southeast corner of wood deck for well equipment, 11.7 feet northeast of a

carsonite witness post, 0.4-foot southwest of the east end of concrete end wall, no magnet set.



DATASHEETS Page 1 of 2

#### The NGS Data Sheet

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

```
PROGRAM = datasheet95, VERSION = 8.7.1
       National Geodetic Survey, Retrieval Date = SEPTEMBER 5, 2015
DJ5117 DESIGNATION - TCS2
DJ5117 PID - DJ5117
DJ5117 STATE/COUNTY- FL/OKEECHOBEE
DJ5117 COUNTRY - US
DJ5117 USGS QUAD - TAYLOR CREEK SE (1972)
DJ5117
DJ5117
                              *CURRENT SURVEY CONTROL
DJ5117
DJ5117* NAD 83(1986) POSITION- 27 21 52. (N) 080 52 20. (W)
DJ5117* NAVD 88 ORTHO HEIGHT - 8.537 (meters) 28.01 (feet) ADJUSTED
DJ5117
DJ5117 GEOID HEIGHT -
                               -26.53 (meters)
                                                                  GEOID12B
DJ5117 DYNAMIC HEIGHT - 8.524 (meter: DJ5117 MODELED GRAVITY - 979,131.0 (mgal)
                                 8.524 (meters)
                                                    27.97 (feet) COMP
                                                                  NAVD 88
DJ5117
DJ5117 VERT ORDER - SECOND
                                 CLASS II
DJ5117
DJ5117. The horizontal coordinates were scaled from a topographic map and have
DJ5117.an estimated accuracy of \pm 6 seconds.
DJ5117.
DJ5117. The orthometric height was determined by differential leveling and
DJ5117.adjusted by the NATIONAL GEODETIC SURVEY
DJ5117.in January 2008.
DJ5117
DJ5117.No vertical observational check was made to the station.
DJ5117
DJ5117.Photographs are available for this station.
DJ5117
DJ5117. The dynamic height is computed by dividing the NAVD 88
DJ5117.geopotential number by the normal gravity value computed on the
DJ5117.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DJ5117.degrees latitude (g = 980.6199 \text{ gals.}).
DJ5117. The modeled gravity was interpolated from observed gravity values.
DJ5117
DJ5117;
                                       East Units Estimated Accuracy
                          North
DJ5117; SPC FL E - 335,790.
                                   212,640. MT (+/-180 \text{ meters Scaled})
DJ5117
DJ5117
                               SUPERSEDED SURVEY CONTROL
DJ5117
DJ5117.No superseded survey control is available for this station.
DJ5117
DJ5117 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL126268 (NAD 83)
DJ5117
DJ5117 MARKER: DD = SURVEY DISK
DJ5117 SETTING: 32 = SET IN A RETAINING WALL OR CONCRETE LEDGE
DJ5117_SP_SET: SET IN TOP OF CONCRETE END WALL
DJ5117 STAMPING: B.M. TCS 2
DJ5117 MARK LOGO: SFLWMD
DJ5117 MAGNETIC: O = OTHER; SEE DESCRIPTION
DJ5117 STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
DJ5117+STABILITY: SURFACE MOTION
DJ5117 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DJ5117+SATELLITE: SATELLITE OBSERVATIONS - April 29, 2005
```

DATASHEETS Page 2 of 2

DJ5117
DJ5117 HISTORY - Date Condition Report By
DJ5117 HISTORY - 20050429 MONUMENTED MCKIM

DJ5117

DJ5117 STATION DESCRIPTION

DJ5117

DJ5117'DESCRIBED BY MCKIM AND CREED 2005

DJ5117'THE STATION IS LOCATED ABOUT 8.4 MI (13.5 KM) NORTH OF OKEECHOBEE, DJ5117'34.7 MI (55.8 KM) EAST SOUTHEAST OF SEBRING, AND 32.1 MI (51.6 KM) DJ5117'WEST SOUTHWEST OF FORT PIERCE IN SECTION 6, TOWNSHIP 36 SOUTH, RANGE DJ5117'35 EAST. OWNERSHIP--TAYLOR CREEK RANCH LTD, 19198 PINETREE DRIVE, DJ5117'TEQUESTA, FLORIDA 33469.

DJ5117'TO REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY 441 AND DJ5117'STATE ROAD 70 IN OKEECHOBEE, GO NORTH ON U.S. HIGHWAY 441 FOR 9.2 MI DJ5117'(14.8 KM) TO JUNCTION OF NORTHWEST 144TH DRIVE (POTTER ROAD/COUNTY DJ5117'ROAD 68A) ON THE LEFT, TURN LEFT ON NORTHWEST 144TH DRIVE AND GO WEST DJ5117'FOR 1.1 MI (1.8 KM) TO JUNCTION OF NORTHWEST NINTH TERRACE ON LEFT, DJ5117'TURN LEFT ON NORTHWEST NINTH TERRACE AND GO SOUTH FOR 0.15 MI (0.24 DJ5117'KM) TO JUNCTION OF NORTHWEST 141ST STREET ON RIGHT, TURN RIGHT ON DJ5117'NORTHWEST 141ST STREET AND GO WEST FOR 0.5 MI (0.8 KM) TO END OF ROAD DJ5117'AT THE JUNCTION OF GRAVEL ROAD LEFT, TURN LEFT ON GRAVEL ROAD AND GO DJ5117'SOUTH FOR 0.1 MI (0.15 KM) CROSSING OVER A PIPE CULVERT UNDER ROAD TO DJ5117'A GRASS TRAIL AND LOCKED GATE ON RIGHT, TURN RIGHT ON GRASS TRAIL ON DJ5117'SOUTH SIDE OF A DRAINAGE CANAL AND GO WEST, SOUTHWEST AND SOUTHEAST DJ5117'THROUGH LOCKED GATE ( NOTE--CALL SFLWMD AT 561-753-2400 TO ACQUIRE DJ5117'KEY) FOR 2.4 MI (3.9 KM) TO STATION ON RIGHT.

DJ5117'THE STATION IS A SFLWMD 2-INCH ALUMINUM SURVEY DISK SET IN THE TOP OF DJ5117'THE EAST END OF THE EAST CONCRETE END WALL OF A DRAINAGE STRUCTURE 0.4 DJ5117'FT (12.2 CM) PROJECTING ABOVE GRADE. LOCATED 19.0 FT (5.8 M) DJ5117'SOUTHWEST OF THE CENTERLINE OF GRASS TRAIL, 39.1 FT (11.9 M) SOUTHEAST DJ5117'OF CENTER OF MONITORING WELL, 24.3 FT (7.4 M) SOUTHEAST OF THE DJ5117'SOUTHEAST CORNER OF WOOD DECK FOR WELL EQUIPMENT, 11.7 FT (3.6 M) DJ5117'NORTHEAST OF A CARSONITE WITNESS POST, AND 0.4 FT (12.2 CM) SOUTHWEST DJ5117'OF THE EAST END OF CONCRETE END WALL. RECOVERABLE WITH MAGNETIC DJ5117'LOCATOR, MAGNETIC SOURCE UNKNOWN.

\*\*\* retrieval complete. Elapsed Time = 00:00:09

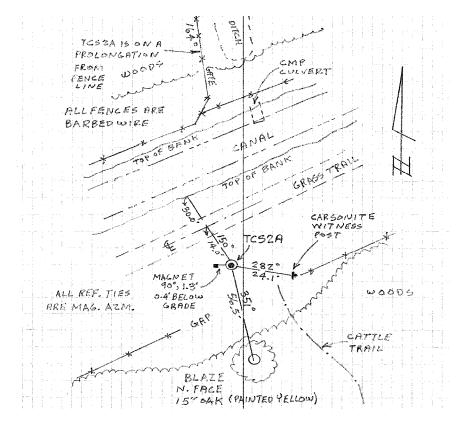


below grade.

#### SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01

COUNTY: Okeechobee	PROJECT: Well TCS2			DESIGNATION: TCS2A				
SECTION 6	TOWNSHIP 36 SOUTH			RANGE 35 EAST				
GEOGRAPHIC INDEX OF QUAD: Florida								
Established by X Recovered by NAME OF QUADRANGLE:								
McKim & Creed, PA			Taylor	Creek SE				
SURVEYOR: Ben R. Homola DAT	<b>E</b> : 4/29/05	FIEL	BOOK: STR	IVE 6 PA	<b>\GE</b> : 5			
HORIZONTAL DATUM: Florida Stat	te Plane Coordina	te Syst	em, NAD 83	ZONE: E	AST			
VERTICAL DATUM: NAVD 88 & NO	GVD 29 (NGS NG	VD 29 a	adjustment of th	ne CERP r	network)			
CONTROL ACCURACY: HORIZONTAL ± 1 meter VERTICAL 2 <sup>nd</sup> order, class II								
STATE PLANE COORDINATES Feet	<b>X</b> 701145		<b>Y</b> 110490		<b>EL.</b> = 29.665' (NAVD 88)			
1 551	701140		11040		<b>EL.</b> = 30.89' (NGVD 29)			
LATITUDE: 27°22'23.95" LONG	<b>ITUDE</b> : 080°51'4	1.07"						
	DESC	CRIPTION	ON					
To reach station from the intersection	of U.S. 98/441 an	d U.S.	98/70 in Okeed	chobee, G	o north on U.S. 441 for 9.2			
mi. to junction of NW 144 <sup>th</sup> Drive (Pott								
to junction of NW 9 <sup>th</sup> Terr. on left, turn								
right, turn right on NW 141 <sup>st</sup> St. and g								
and go south for 0.1 mi. crossing over								
right on grass trail on south side of a								
a SFWMD 3½ inch brass disk set in the	-							
southeast of centerline of trail, 30.0 fe								
56.5 feet north of a blaze in the north	tace of a 15 inch (	Jak pai	nted yellow, 1.	3 teet eas	t of a buried magnet 0.4-			
foot								



DATASHEETS Page 1 of 2

#### The NGS Data Sheet

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

```
PROGRAM = datasheet95, VERSION = 8.7.1
       National Geodetic Survey, Retrieval Date = SEPTEMBER 5, 2015
DJ5116 DESIGNATION - TCS2A
DJ5116 PID - DJ5116
DJ5116 STATE/COUNTY- FL/OKEECHOBEE
DJ5116 COUNTRY - US
DJ5116 USGS QUAD - TAYLOR CREEK SE (1972)
DJ5116
DJ5116
                              *CURRENT SURVEY CONTROL
DJ5116
DJ5116* NAD 83(1986) POSITION- 27 22 23. (N) 080 51 41. (W)
DJ5116* NAVD 88 ORTHO HEIGHT - 9.041 (meters) 29.66 (feet) ADJUSTED
DJ5116
DJ5116 GEOID HEIGHT -
                               -26.54 (meters)
                                                                  GEOID12B
DJ5116 DYNAMIC HEIGHT - 9.027 (meter: DJ5116 MODELED GRAVITY - 979,132.3 (mgal)
                                 9.027 (meters)
                                                    29.62 (feet) COMP
                                                                  NAVD 88
DJ5116
DJ5116 VERT ORDER - SECOND
                                 CLASS II
DJ5116
DJ5116. The horizontal coordinates were scaled from a topographic map and have
DJ5116.an estimated accuracy of \pm 6 seconds.
DJ5116.
DJ5116. The orthometric height was determined by differential leveling and
DJ5116.adjusted by the NATIONAL GEODETIC SURVEY
DJ5116.in January 2008.
DJ5116
DJ5116.No vertical observational check was made to the station.
DJ5116
DJ5116.Photographs are available for this station.
DJ5116
DJ5116. The dynamic height is computed by dividing the NAVD 88
DJ5116.geopotential number by the normal gravity value computed on the
DJ5116.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DJ5116.degrees latitude (g = 980.6199 \text{ gals.}).
DJ5116. The modeled gravity was interpolated from observed gravity values.
DJ5116
DJ5116;
                                       East Units Estimated Accuracy
                          North
DJ5116; SPC FL E - 336,750.
                                   213,710. MT (+/-180 \text{ meters Scaled})
DJ5116
DJ5116
                               SUPERSEDED SURVEY CONTROL
DJ5116
DJ5116.No superseded survey control is available for this station.
DJ5116
DJ5116 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL137277 (NAD 83)
DJ5116
DJ5116 MARKER: DD = SURVEY DISK
DJ5116 SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
DJ5116_STAMPING: TCS2A 2005
DJ5116 MARK LOGO: SFLWMD
DJ5116 PROJECTION: RECESSED 12 CENTIMETERS
DJ5116 MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
DJ5116 STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
DJ5116+STABILITY: SURFACE MOTION
DJ5116 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DJ5116+SATELLITE: SATELLITE OBSERVATIONS - April 29, 2005
```

DATASHEETS Page 2 of 2

DJ5116 HISTORY - Date Condition
DJ5116 HISTORY - 20050429 MONUMENTED Report By MCKIM DJ5116 DJ5116 STATION DESCRIPTION DJ5116 DJ5116'DESCRIBED BY MCKIM AND CREED 2005 DJ5116'THE STATION IS LOCATED ABOUT 8.7 MI (14.0 KM) NORTH OF OKEECHOBEE, DJ5116'35.2 MI (56.6 KM) EAST SOUTHEAST OF SEBRING, AND 31.4 MI (50.5 KM) DJ5116'WEST SOUTHWEST OF FORT PIERCE IN SECTION 6, TOWNSHIP 36 SOUTH, RANGE DJ5116'35 EAST. OWNERSHIP--TAYLOR CREEK RANCH LTD, 19198 PINETREE DRIVE, DJ5116'TEQUESTA, FLORIDA 33469. DJ5116' DJ5116'TO REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY 441 AND DJ5116'STATE ROAD 70 IN OKEECHOBEE, GO NORTH ON U.S. HIGHWAY 441 FOR 9.2 MI DJ5116'(14.8 KM) TO JUNCTION OF NORTHWEST 144TH DRIVE (POTTER ROAD/COUNTY DJ5116'ROAD 68A) ON THE LEFT, TURN LEFT ON NORTHWEST 144TH DRIVE AND GO WEST DJ5116'FOR 1.1 MI (1.8 KM) TO JUNCTION OF NORTHWEST NINTH TERRACE ON LEFT, DJ5116'TURN LEFT ON NORTHWEST NINTH TERRACE AND GO SOUTH FOR 0.15 MI (0.24 DJ5116'KM) TO JUNCTION OF NORTHWEST 141ST STREET ON RIGHT, TURN RIGHT ON DJ5116'NORTHWEST 141ST STREET AND GO WEST FOR 0.5 MI (0.8 KM) TO END OF ROAD DJ5116'AT THE JUNCTION OF GRAVEL ROAD LEFT, TURN LEFT ON GRAVEL ROAD AND GO DJ5116'SOUTH FOR 0.1 MI (0.15 KM) CROSSING OVER A PIPE CULVERT UNDER ROAD TO DJ5116'A GRASS TRAIL AND LOCKED GATE ON RIGHT, TURN RIGHT ON GRASS TRAIL ON DJ5116'SOUTH SIDE OF A DRAINAGE CANAL AND GO WEST THROUGH LOCKED GATE ( DJ5116'NOTE--CALL SFLWMD AT 561-753-2400 TO ACQUIRE KEY) FOR 1.2 MI (1.9 KM) DJ5116'TO STATION ON LEFT. DJ5116' DJ5116'THE STATION IS A 3-1/2 INCH (8 CM) BRASS SFLWMD SURVEY DISK SET IN THE DJ5116'TOP OF A ROUND CONCRETE MONUMENT 0.4 FT (12.2 CM) BELOW GRADE. DJ5116'LOCATED 14.0 FT (4.3 M) SOUTHEAST OF THE CENTERLINE OF GRASS TRAIL, DJ5116'30.0 FT (9.1 M) SOUTHEAST OF THE TOP OF BANK OF CANAL, 24.1 FT (7.3 M) DJ5116'WEST OF A CARSONITE WITNESS POST, 56.5 FT (17.2 M) NORTH OF A BLAZE IN DJ5116'THE NORTH FACE OF A 15-INCH (38 CM) OAK TREE PAINTED YELLOW, 1.3 FT DJ5116'(0.4 M) EAST OF A BURIED MAGNET 0.4 FT (12.2 CM) BELOW GRADE.

\*\*\* retrieval complete. Elapsed Time = 00:00:08

DJ5116

#### The NGS Data Sheet

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

```
AJ6120 DESIGNATION - U 502
AJ6120 PID - AJ6120
AJ6120 STATE/COUNTY- FL/OKEECHOBEE
AJ6120 USGS QUAD - TAYLOR CREEK NE (1971)
 AJ6120
                                       *CURRENT SURVEY CONTROL
 AJ6120
 AJ6120
                                                      080 50 34.
 AJ6120* NAD 83(1986) - 27 22 33.
                                              (N)
                                                                         (W)
                                                                                   SCALED
 AJ6120* NAVD 88
                                     11.237
                                             (meters)
                                                               36.87
                                                                         (feet)
                                                                                  ADJUSTED
 AJ6120
          GEOID HEIGHT-
 AJ6120
                                      -26.57
                                               (meters)
                                                                                   GEOID03
          DYNAMIC HT -
                                       11.220 (meters)
 AJ6120
                                                                36.81 (feet)
                                                                                   COMP
         MODELED GRAV-
                                 979,131.1
                                                                                   NAVD 88
 AJ6120
                                                (mgal)
 AJ6120
          VERT ORDER - SECOND
                                         CLASS I
 AJT6120
 AJ6120
 AJ6120. The horizontal coordinates were scaled from a topographic map and have
 AJ6120.an estimated accuracy of +/- 6 seconds.
 AJ6120
 AJ6120. The orthometric height was determined by differential leveling
 AJ6120.and adjusted by the National Geodetic Survey in January 2002.
 AJ6120
 AJ6120. The geoid height was determined by GEOID03.
 AJT6120
 AJ6120. The dynamic height is computed by dividing the NAVD 88 AJ6120. geopotential number by the normal gravity value computed on the AJ6120. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AJ6120.degrees latitude (g = 980.6199 \text{ gals.}).
 AJ6120
 AJ6120. The modeled gravity was interpolated from observed gravity values.
 AJ6120
                                                             Units Estimated Accuracy MT (+/- 180 meters Scaled)
 AJT6120;
                                                   East
                                  North
 AJ6120; SPC FL E
                              337,060.
                                                215,550.
 AJ6120
 AJT6120
                                        SUPERSEDED SURVEY CONTROL
 AJ6120
 AJ6120.No superseded survey control is available for this station.
 AJ6120
 AJ6120_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL155280(NAD 83) AJ6120_MARKER: DD = SURVEY DISK
 AJ6120 SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 AJ6120_STAMPING: U 502 2000
 AJ6120_MARK LOGO: FLDEP
 AJ6120 PROJECTION: FLUSH
 AJ6120_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
 \mbox{AJ6120\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO AJ6120+STABILITY: SURFACE MOTION
 AJ6120_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 AJ6120+SATELLITE: SATELLITE OBSERVATIONS - May 30, 2002
 AJ6120
 AJ6120 HISTORY
                         - Date
                                       Condition
                                                            Report By
         HISTORY
HISTORY
                         - 2000
 AJ6120
                                      MONUMENTED
                                                            FLDED
 AJ6120
                         - 20020530 GOOD
                                                            FLDEP
 AJ6120
                                        STATION DESCRIPTION
 AJ6120
 AJ6120
 AJ6120'DESCRIBED BY FL DEPT OF ENV PRO 2000 (JLM)
 AJ6120'THE MARK IS ABOUT 9.5 MI (15.3 KM) SOUTH-SOUTHWEST OF FORT DRUM, 9.3
 AJ6120'MI (15.0 KM) NORTH OF OKEECHOBEE ON NORTHWEST 144TH DRIVE (COUNTY ROAD AJ6120'68A) , IN SECTION 33, TOWNSHIP 35 SOUTH, RANGE 35 EAST. TO REACH THE
 AJ6120'MARK FROM THE INTERSECTION OF U.S. HIGHWAY 441 (PARROTT STREET) AND
 AJ6120'STATE ROAD 70 (PARK STREET) IN OKEECHOBEE, GO NORTH ON U.S. HIGHWAY AJ6120'441 (PARROTT STREET) FOR 9.2 MI (14.8 KM) TO THE JUNCTION OF NORTHWEST AJ6120'144TH DRIVE ON THE LEFT (COUNTY ROAD 68A) , TURN LEFT ON NORTHWEST
 AJ6120'144TH DRIVE (COUNTY ROAD 68A) AND GO WEST FOR 1.65 MI (2.66 KM) TO THE
 AJ6120'MARK ON THE LEFT, SET IN THE TOP OF A ROUND CONCRETE MONUMENT FLUSH
```

```
AJ6120'WITH THE GROUND AND 1.0 FT (0.3 M) BELOW THE LEVEL OF NORTHWEST 144TH AJ6120'DRIVE. LOCATED 27.1 FT (8.3 M) SOUTH OF NORTHWEST 144TH DRIVE, 13.7 FT AJ6120'(4.2 M) EAST OF TWO CABLE BOXES NUMBER 36521, 3.3 FT (1.0 M) NORTH OF AJ6120'POWER POLE WITH ONE GUY WIRE ATTACHED, 1.5 FT (0.5 M) EAST OF A AJ6120'BARBWIRE FENCE CORNER AND 1.3 FT (0.4 M) EAST OF A CARSONITE WITNESS AJ6120'POST.

AJ6120 STATION RECOVERY (2002)
AJ6120 STATION RECOVERY (2002)
AJ6120 AJ6120'RECOVERY NOTE BY FL DEPT OF ENV PRO 2002 (JLM)
AJ6120'RECOVERED AS DESCRIBED. NOT LEVELED TO THIS DATE.
AJ6120'
*** retrieval complete.
Elapsed Time = 00:00:01
```

## **Sub-Network 1 Adjusted Elevations**

# TCS2 Level Line between U 502 & TCS2A

Number of Points : 23 Number of Constrained Points : 1 Elevation Only : 1

Point Name	Northing	N error	Easting	E error	Elevation	e error	Fix
0005 (U 502)	N/A	N/A	N/A	N/A	11.237m	0.000m	e
90005	N/A	N/A	N/A	N/A	11.205m	0.004m	
100005	N/A	N/A	N/A	N/A	10.748m	0.006m	
110005	N/A	N/A	N/A	N/A	10.547m	0.007m	
120005	N/A	N/A	N/A	N/A	10.156m	0.008m	
130005	N/A	N/A	N/A	N/A	9.558m	0.009m	
140005	N/A	N/A	N/A	N/A	9.944m	0.010m	
150005	N/A	N/A	N/A	N/A	10.025m	0.011m	
160005	N/A	N/A	N/A	N/A	10.125m	0.012m	
170005	N/A	N/A	N/A	N/A	10.201m	0.012m	
180005	N/A	N/A	N/A	N/A	10.098m	0.013m	
190005	N/A	N/A	N/A	N/A	9.988m	0.014m	
200005	N/A	N/A	N/A	N/A	9.864m	0.014m	
210005	N/A	N/A	N/A	N/A	10.292m	0.015m	
220005	N/A	N/A	N/A	N/A	9.671m	0.016m	
230005	N/A	N/A	N/A	N/A	9.585m	0.016m	
240005	N/A	N/A	N/A	N/A	9.436m	0.017m	
250005	N/A	N/A	N/A	N/A	9.662m	0.017m	
260005	N/A	N/A	N/A	N/A	9.140m	0.018m	
270005	N/A	N/A	N/A	N/A	9.712m	0.018m	
280005	N/A	N/A	N/A	N/A	9.219m	0.019m	
290005	N/A	N/A	N/A	N/A	9.364m	0.019m	
300005 (TCS2A)	N/A	N/A	N/A	N/A	9.042m	0.020m	

## **Sub-Network 2 Adjusted Elevations**

### TCS2 Level Line between TCS2A & U 502

Number of Points : 21 Number of Constrained Points : 1 Elevation Only : 1

Point Name	Northing	N error	Easting	E error	Elevation	e error	Fix
0007 (TCS2A)	N/A	N/A	N/A	N/A	9.042m	0.019m	
170007	N/A	N/A	N/A	N/A	9.278m	0.018m	
180007	N/A	N/A	N/A	N/A	9.362m	0.018m	
190007	N/A	N/A	N/A	N/A	9.785m	0.017m	
200007	N/A	N/A	N/A	N/A	9.253m	0.017m	
210007	N/A	N/A	N/A	N/A	9.635m	0.016m	
220007	N/A	N/A	N/A	N/A	9.433m	0.016m	
230007	N/A	N/A	N/A	N/A	9.563m	0.015m	
240007	N/A	N/A	N/A	N/A	9.992m	0.014m	
250007	N/A	N/A	N/A	N/A	9.942m	0.014m	
260007	N/A	N/A	N/A	N/A	9.653m	0.013m	
270007	N/A	N/A	N/A	N/A	10.121m	0.012m	
280007	N/A	N/A	N/A	N/A	10.139m	0.012m	
290007	N/A	N/A	N/A	N/A	10.072m	0.011m	
300007	N/A	N/A	N/A	N/A	9.937m	0.010m	
310007	N/A	N/A	N/A	N/A	9.258m	0.009m	
320007	N/A	N/A	N/A	N/A	10.265m	0.008m	
330007	N/A	N/A	N/A	N/A	10.525m	0.007m	
340007	N/A	N/A	N/A	N/A	10.823m	0.006m	
350007	N/A	N/A	N/A	N/A	11.314m	0.004m	
360007 (U 502)	N/A	N/A	N/A	N/A	11.237m	0.000m	e

## **Sub-Network 3 Adjusted Elevations**

# TCS2 Level Line between TCS2A & TCS2

Number of Points : 17 Number of Constrained Points : 1 Elevation Only : 1

Point Name	Northing	N error	Easting	E error	Elevation	e error	Fix
0007 (TCS2A)	N/A	N/A	N/A	N/A	9.042m	0.000m	e
10007	N/A	N/A	N/A	N/A	9.069m	0.004m	
20007	N/A	N/A	N/A	N/A	8.658m	0.006m	
30007	N/A	N/A	N/A	N/A	9.096m	0.007m	
40007	N/A	N/A	N/A	N/A	8.609m	0.008m	
50007	N/A	N/A	N/A	N/A	8.446m	0.009m	
60007	N/A	N/A	N/A	N/A	8.515m	0.010m	
70007	N/A	N/A	N/A	N/A	8.379m	0.011m	
80007	N/A	N/A	N/A	N/A	8.220m	0.012m	
90007	N/A	N/A	N/A	N/A	8.311m	0.012m	
100007	N/A	N/A	N/A	N/A	8.405m	0.013m	
110007	N/A	N/A	N/A	N/A	8.332m	0.014m	
120007	N/A	N/A	N/A	N/A	8.176m	0.014m	
130007	N/A	N/A	N/A	N/A	8.229m	0.015m	
140007	N/A	N/A	N/A	N/A	8.271m	0.016m	
150007	N/A	N/A	N/A	N/A	8.482m	0.016m	
160007 (TCS2)	N/A	N/A	N/A	N/A	8.538m	0.017m	

## **Sub-Network 4 Adjusted Elevations**

# TCS2 Level Line between TCS2 & TCS2A

Number of Points : 15 Number of Constrained Points : 1 Elevation Only : 1

Point Name	Northing	N error	Easting	E error	Elevation	e error	Fix
0008 (TCS2)	N/A	N/A	N/A	N/A	8.538m	0.016m	
10008	N/A	N/A	N/A	N/A	8.170m	0.015m	
20008	N/A	N/A	N/A	N/A	8.332m	0.014m	
30008	N/A	N/A	N/A	N/A	8.253m	0.014m	
40008	N/A	N/A	N/A	N/A	8.203m	0.013m	
50008	N/A	N/A	N/A	N/A	8.365m	0.012m	
60008	N/A	N/A	N/A	N/A	8.395m	0.012m	
70008	N/A	N/A	N/A	N/A	8.240m	0.011m	
80008	N/A	N/A	N/A	N/A	8.246m	0.010m	
90008	N/A	N/A	N/A	N/A	8.420m	0.009m	
100008	N/A	N/A	N/A	N/A	8.280m	0.008m	
110008	N/A	N/A	N/A	N/A	9.052m	0.007m	
120008	N/A	N/A	N/A	N/A	8.671m	0.006m	
130008	N/A	N/A	N/A	N/A	8.974m	0.004m	
140008 (TCS2A)	N/A	N/A	N/A	N/A	9.042m	0.000m	e