Surveyor's Report

Kissimmee River Wells

NMI Project No. 1078.007

Report Date: March 16th, 2006

Submittal: Final

Prepared for:

SUTRON Corporation and South Florida Water Management District



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OVERVIEW OF THE PROJECT

PURPOSE

The purpose of the Kissimmee River Wells Project is to establish vertical control marks near each monitoring well. The project tests the application of Federal Geodetic Control Subcommittee (FGCS) Second-Order, Class II leveling procedures with Third-Order equipment. The goal of this hybrid pairing of procedures and equipment is to produce leveling measurements that will be acceptable to the National Geodetic Survey (NGS) and used in future vertical adjustments throughout the District.

This project utilizes uncalibrated "off-the-shelf" fiberglass level rods. Such rods are not currently approved by NGS for precise leveling (Second-Order Class II and above) for three primary reasons:

- 1. The fiberglass material used to construct the rods is less dimensionally stable than rods constructed of Invar metal.
- 2. The fiberglass rods are not individually calibrated by the manufacturer to identify scale errors across the length of the rod.
- 3. The fiberglass rods are a three-section snap-together style that will, over time, wear at the connection points creating error in measurements on the top two sections.

While these limitations make the rods unsuitable for the extreme precision required in First-Order and Second-Order, Class I leveling, it is the hypothesis of this project that such rods can deliver Second-Order, Class II precisions. Fiberglass rods are commonly used by surveyors today. In contrast, Invar level rods are expensive and specialized equipment only used by surveyors working on the highest precision vertical control surveys. By demonstrating that fiberglass level rods such as those used in this project are suitable for Second-Order, Class II leveling the District will benefit from the increased number of consultants using these rods. As a result, more level lines run within the District should meet NGS's requirements for inclusion in future vertical adjustments, further refining the elevation models used for water control.

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LOCATION OF PROJECT

The project is located in Highlands and Okeechobee Counties. Following is a map and legend.



- 1. LKBB3A
- 2. LKBB3B
- 3. LKBC1B
- 4. LKBD1A
- 5. LKBD3A
- 6. LKBD3C
- 7. LKBD5C
- 8. RIVAC 1
- 9. RIVAC 2

ITEMS DELIVERED TO THE CLIENT

The following items are delivered to the client with this report. Neither the report nor the items listed below are complete without the other.

- 1. Paper and electronic copy of field notes
- 2. Paper and electronic copy of all computation sheets
- 3. CORPSMET file for each site
- 4. Paper and electronic copy of site photographs
- 5. Paper copy of South Florida Water Management District Benchmark Description
- 6. Paper and electronic copy of NGS Blue Book submittal

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VERTICAL DATUM FOR THE PROJECT

The vertical datum for the project is the North American Vertical Datum of 1988. For correlation with older data sets, the elevations of the benchmarks are also shown in the National Geodetic Vertical Datum (NGVD) of 1929. The NGVD 29 elevations were derived using data provided by the South Florida Water Management District in a file named "NGVD29.ABS" when applicable, otherwise NGS superseded values were used. The linear unit for all elevations is the meter unless otherwise stated.

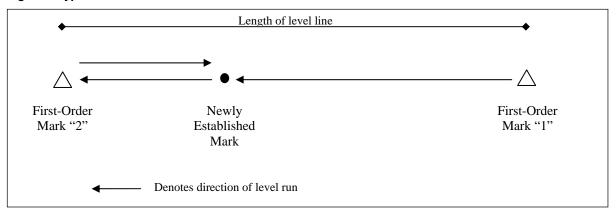
LEVELING METHODS

CONFIGURATION OF LEVEL RUNS

The leveling for the project was performed in accordance with the Federal Geodetic Control Subcommittee standard for Second-Order, Class II geodetic leveling. A brief description of the procedures used follows.

For each level line, two existing First or Second Order vertical marks were used. The run was started at one of the First or Second Order marks and continued through the newly established mark near the structure and closed on the second First or Second Order vertical mark. The run was then looped back from the second First or Second Order mark to the newly established mark (see Figure 1 below).

Figure 1 Typical Level Run Pattern



The FGCS maximum allowable misclosure for this type of run is eight millimeters multiplied by the length of the line in kilometers.

EQUIPMENT USED

All leveling during the project was performed with a Leica DNA03 digital level and Leica three-section, fiberglass bar-code level rods. Information and technical specification for the Leica DNA03 digital level are available at http://www.leica-geosystems.com.

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PROJECT RESULTS

The following tables list the elevations established for each new mark, the level run misclosure, "to-reach" description for each mark and a photo of the mark. All elevations are in US Survey Feet.

LKBB3A	New benchmark was no	New benchmark was not set; Use benchmark S 461.					
Bench Mark 1:	S 461	46.39 ft	(NAVD 88)	47.55 ft	(NGVD 29)		
Bench Mark 2:	R 461	53.44 ft	(NAVD 88)	54.60 ft	(NGVD 29)		
Monitoring Well:	LKBB3A	50.53 ft	(NAVD88)	51.69 ft	(NGVD 29)		
Brass Disk on Conc. Pad:	LKBB3A	47.14 ft	(NAVD88)	48.30 ft	(NGVD 29)		
Ground Elevation:	LKBB3A	46.67 ft	(NAVD 88)	47.83 ft	(NGVD 29)		
Length of Run:	2.20 km	To Reach S 461:					

Max Allowable Misclosure: 12 mm Actual Misclosure: 4 mm



TO REACH THE MARK FROM THE POST OFFICE IN LORIDA, GO SOUTHEAST ON U.S. HIGHWAY 98 FOR $1.05~\mathrm{MILES}$ TO THE JUNCTION OF BLUFF HAMMOCK ROAD ON THE LEFT AND THE SEABOARD COAST RAILROAD TRACKS, TURN LEFT ON BLUFF HAMMOCK ROAD AND GO NORTHEAST FOR 4.15 MILES TO THE END OF THE PAVED ROAD AND A Y-JUNCTION, BEAR LEFT ON THE SAND ROAD AND GO NORTH FOR 0.7 MILES TO THE JUNCTION OF A DIRT ROAD ON THE LEFT (LEADING NORTH), CONTINUE NORTHEAST ON THE SAND ROAD FOR 0.7 MILE TO THE JUNCTION OF A LEVEE ROAD ON THE LEFT, TURN LEFT ON THE LEVEE ROAD AND GO NORTH FOR 0.05 MILE TO A LOCKED GATE, CONTINUE NORTH ON THE LEVEE ROAD FOR 3.15 MILES TO A 90 DEGREE TURN EAST, TURN RIGHT AND GO EAST ON THE LEVEE ROAD FOR 0.55 MILE TO A 90 DEGREE TURN LEFT, TURN LEFT ON THE LEVEE ROAD AND GO NORTH FOR 128.0 FEET TO THE JUNCTION OF AN EAST-WEST LEVEE ROAD, TURN RIGHT ON THE LEVEE ROAD AND GO EAST FOR 0.15 MILE TO THE JUNCTION OF A DIM ROAD LEADING NORTH, TURN LEFT ON THE DIM ROAD AND GO NORTH FOR 73.0 FEET TO A LOCKED GATE, CONTINUE NORTH ON THE DIM ROAD FOR 78.0 FEET TO THE T-JUNCTION OF A TRAIL ROAD LEADING EAST-WEST. TURN RIGHT ON THE TRAIL ROAD AND GO EAST FOR 1.4 MILES TO AN OPEN GATE, CONTINUE EAST ON THE TRAIL ROAD FOR 2.75 MILES TO A T-JUNCTION OF BOSWELL TRAIL, TURN RIGHT ON BOSWELL TRAIL AND GO SOUTH FOR 125.0 FEET TO THE JUNCTION OF A ROAD LEADING TO A BOAT RAMP ON THE RIGHT, BEAR LEFT ON BOSWELL TRAIL AND GO NORTHEAST FOR 0.2 MILE TO THE JUNCTION OF A TRAIL ROAD ON THE LEFT, BARE RIGHT ON BOSWELL TRAIL AND GO NORTHEAST FOR 0.6 MILE TO THE MARK ON THE RIGHT, A STAINLESS STEEL ROD DRIVEN TO REFUSAL AT A DEPTH OF 63.5 FEET WITH A LOGO CAP FLUSH WITH THE GROUND AND LEVEL WITH BOSWELL TRAIL, THE DATUM POINT IS RECESSED 0.4 FT BELOW THE LEVEL OF THE LOGO CAP. LOCATED 210.0 FEET SOUTH OF A CATTLE GAP, 125.5 FEET EAST OF A 10.0 FEET DIAMETER OAK TREE, 112.2 FEET WEST OF A BARBWIRE FENCE, 59.2 FEET SOUTHEAST OF A 8.0 FEET DIAMETER OAK TREE, 42.5 FEET EAST OF THE APPROXIMATE CENTERLINE OF BOSWELL TRAIL AND 1.0 FOOT WEST OF A CARSONITE WITNESS POST. NOTE ACCESS TO DATUM POINT IS HAD THROUGH A 5-INCH LOGO CAP. FOR KEY, CONTACT SOUTH FLORIDA WATER MANAGEMENT DISTRICT.

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Nick Miller, Inc.

Date of Photo: February 28, 2006 View: Looking at the well LKBB3A facing west



Nick Miller, Inc.
Date of Photo: February 28, 2006
View: Close-up of the well showing the contractor's markings





Nick Miller, Inc. Date of Photo: February 28, 2006 View: Top View of concrete pad brass disk (Elevation on brass disk)



Nick Miller, Inc. Date of Photo: February 28, 2006 View: Looking at the benchmark \$461 facing east





Nick Miller, Inc. Date of Photo: February 28, 2006 View: Top views of the S461 benchmark

The NGS Data Sheet

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

```
AH8790 DESIGNATION - S 461
AH8790 PID - AH8790
AH8790 STATE/COUNTY- FL/HIGHLANDS
         USGS QUAD - FORT KISSIMMEE (1972)
 AH8790
 AH8790
                                      *CURRENT SURVEY CONTROL
 AH8790
 AH8790
 AH8790* NAD 83(1986) - 27 35 42.
AH8790* NAVD 88 - 14.141
                                                     081 09 20.
                                             (N)
                                                                       (W)
                                                                                 SCALED
                                                              46.39
                                             (meters)
                                                                        (feet)
                                                                                 ADJUSTED
 AH8790
 AH8790
          GEOID HEIGHT-
                                     -26.23
                                             (meters)
                                                                                 GEOID03
          DYNAMIC HT -
 AH8790
                                      14.120 (meters)
                                                               46.33
                                                                       (feet)
                                                                                COMP
                                979,153.3
 AH8790
         MODELED GRAV-
                                                                                 NAVD 88
                                              (mgal)
 AH8790
 AH8790
          VERT ORDER - SECOND
                                       CLASS I
 AH8790
 AH8790. The horizontal coordinates were scaled from a topographic map and have
 AH8790.an estimated accuracy of +/- 6 seconds.
 AH8790
 AH8790. The orthometric height was determined by differential leveling
 AH8790.and adjusted by the National Geodetic Survey in July 1999..
 AH8790
 AH8790. The geoid height was determined by GEOID03.
 AH8790
 AH8790. The dynamic height is computed by dividing the NAVD 88 AH8790. geopotential number by the normal gravity value computed on the AH8790. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AH8790.degrees latitude (g = 980.6199 \text{ gals.}).
 AH8790
 AH8790. The modeled gravity was interpolated from observed gravity values.
 AH8790
                                                           Units Estimated Accuracy MT (+/- 180 meters Scaled)
 AH8790;
                                                  East
                                 North
 AH8790; SPC FL E
                                              184,640.
                              361,340.
 AH8790
                                       SUPERSEDED SURVEY CONTROL
 AH8790
 AH8790
 AH8790. No superseded survey control is available for this station.
 AH8790
 AH8790_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML846523(NAD 83)AH8790_MARKER: F = FLANGE-ENCASED ROD
 AH8790 SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
 AH8790_STAMPING: S 461 1997
 AH8790_MARK LOGO: NGS
 AH8790 PROJECTION: FLUSH
 AH8790_MAGNETIC: N = NO MAGNETIC MATERIAL
 AH8790_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL AH8790_SATELLITE: THE SITE LOCATION WAS REPORTED AS NOT SUITABLE FOR
 AH8790+SATELLITE: SATELLITE OBSERVATIONS - 1997
 AH8790_ROD/PIPE-DEPTH: 19.4 meters
 AH8790
 AH8790
          HISTORY
                        - Date
                                      Condition
                                                          Report By
 AH8790
          HISTORY
                        - 1997
                                      MONUMENTED
 AH8790
 AH8790
                                       STATION DESCRIPTION
 AH8790
 AH8790'DESCRIBED BY FL DEPT OF ENV PRO 1997 (JLM)
 AH8790'THE MARK IS ABOUT 7.0 MI (11.3 KM) NORTHEAST OF LORIDA, 0.15 MI (0.24
 AH8790'KM) WEST OF KISSIMMEE RIVER IN SECTION 19, TOWNSHIP 33 SOUTH, RANGE 32
 AH8790'EAST. TO REACH THE MARK FROM THE POST OFFICE IN LORIDA, GO SOUTHEAST AH8790'ON U.S. HIGHWAY 98 FOR 1.05 MI (1.69 KM) TO THE JUNCTION OF BLUFF
 AH8790'HAMMOCK ROAD ON THE LEFT AND THE SEABOARD COAST RAILROAD TRACKS, TURN
 AH8790'LEFT ON BLUFF HAMMOCK ROAD AND GO NORTHEAST FOR 4.15 MI (6.68 KM) TO
 AH8790'THE END OF THE PAVED ROAD AND A Y-JUNCTION, BEAR LEFT ON THE SAND ROAD AH8790'AND GO NORTH FOR 0.7 MI (1.1~{\rm km}) TO THE JUNCTION OF A DIRT ROAD ON THE
 AH8790'LEFT (LEADING NORTH) , CONTINUE NORTHEAST ON THE SAND ROAD FOR 0.7 MI
 AH8790'(1.1 KM) TO THE JUNCTION OF A LEVEE ROAD ON THE LEFT, TURN LEFT ON THE
```

AH8790'LEVEE ROAD AND GO NORTH FOR 0.05 MI (0.08 KM) TO A LOCKED GATE, AH8790'CONTINUE NORTH ON THE LEVEE ROAD FOR 3.15 MI (5.07 KM) TO A 90 DEGREE AH8790'TURN EAST, TURN RIGHT AND GO EAST ON THE LEVEE ROAD FOR 0.55 MI (0.89 AH8790'KM) TO A 90 DEGREE TURN LEFT, TURN LEFT ON THE LEVEE ROAD AND GO NORTH AH8790'FOR 128.0 FT (39.0 M) TO THE JUNCTION OF AN EAST-WEST LEVEE ROAD, TURN AH8790'RIGHT ON THE LEVEE ROAD AND GO EAST FOR 0.15 MI (0.24 KM) TO THE AH8790'JUNCTION OF A DIM ROAD LEADING NORTH, TURN LEFT ON THE DIM ROAD AND GO AH8790'NORTH FOR 73.0 FT (22.3 M) TO A LOCKED GATE, CONTINUE NORTH ON THE DIM AH8790'ROAD FOR 78.0 FT (23.8 M) TO THE T-JUNCTION OF A TRAIL ROAD LEADING AH8790'EAST-WEST, TURN RIGHT ON THE TRAIL ROAD AND GO EAST FOR 1.4 MI (2.3 AH8790'KM) TO AN OPEN GATE, CONTINUE EAST ON THE TRAIL ROAD FOR 2.75 MI (4.43 AH8790'KM) TO A T-JUNCTION OF BOSWELL TRAIL, TURN RIGHT ON BOSWELL TRAIL AND AH8790'GO SOUTH FOR 125.0 FT (38.1 M) TO THE JUNCTION OF A ROAD LEADING TO A AH8790'BOAT RAMP ON THE RIGHT, BEAR LEFT ON BOSWELL TRAIL AND GO NORTHEAST AH8790'FOR 0.2 MI (0.3 KM) TO THE JUNCTION OF A TRAIL ROAD ON THE LEFT, BEAR AH8790 RIGHT ON BOSWELL TRAIL AND GO NORTHEAST FOR 0.6 MI (1.0 KM) TO THE AH8790'MARK ON THE RIGHT, A STAINLESS STEEL ROD DRIVEN TO REFUSAL AT A DEPTH AH8790'OF 63.5 FT (19.4 M) WITH A LOGO CAP FLUSH WITH THE GROUND AND LEVEL AH8790'WITH BOSWELL TRAIL, THE DATUM POINT IS RECESSED 0.4 FT (12.2 CM) BELOW AH8790'THE LEVEL OF THE LOGO CAP. LOCATED 210.0 FT (64.0 M) SOUTH OF A CATTLE AH8790'GAP, 125.5 FT (38.3 M) EAST OF A 10.0 FT (3.0 M) DIAMETER OAK TREE, AH8790'112.2 FT (34.2 M) WEST OF A BARBWIRE FENCE, 59.2 FT (18.0 M) SOUTHEAST AH8790'OF A 8.0 FT (2.4 M) DIAMETER OAK TREE, 42.5 FT (13.0 M) EAST OF THE AH8790'APPROXIMATE CENTERLINE OF BOSWELL TRAIL AND 1.0 FT (0.3 M) WEST OF A AH8790'CARSONITE WITNESS POST. NOTE ACCESS TO DATUM POINT IS HAD THROUGH A AH8790'5-INCH LOGO CAP. FOR KEY CONTACT SOUTH FLORIDA WATER MANAGEMENT AH8790'DISTRICT AT 561-686-8800.

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

The NGS Data Sheet

See file <u>dsdata.txt</u> for more information about the datasheet.

```
AH8789 DESIGNATION - R 461
AH8789 PID - AH878
 AH8789
         PID
                           AH8789
          STATE/COUNTY- FL/HIGHLANDS
 AH8789
         USGS QUAD - FORT KISSIMMEE (1972)
 AH8789
 AH8789
                                      *CURRENT SURVEY CONTROL
 AH8789
 AH8789
                                                    081 09 16.
 AH8789* NAD 83(1986) - 27 36 21.
                                             (N)
                                                                       (W)
                                                                                SCALED
 AH8789* NAVD 88
                                   16.288
                                                             53.44
                                            (meters)
                                                                       (feet)
                                                                                ADJUSTED
 AH8789
          GEOID HEIGHT-
 AH8789
                                    -26.25
                                             (meters)
                                                                                GEOID03
          DYNAMIC HT -
 AH8789
                                      16.264 (meters)
                                                              53.36
                                                                       (feet)
                                                                                COMP
                               979,155.0
 AH8789
          MODELED GRAV-
                                                                                NAVD 88
                                              (mgal)
 AH8789
 AH8789
          VERT ORDER - SECOND
                                       CLASS I
 AH8789
 AH8789. The horizontal coordinates were scaled from a topographic map and have
 AH8789.an estimated accuracy of +/- 6 seconds.
 AH8789
 AH8789. The orthometric height was determined by differential leveling
 AH8789.and adjusted by the National Geodetic Survey in July 1999..
 AH8789
 AH8789. The geoid height was determined by GEOID03.
 AH8789
 AH8789. The dynamic height is computed by dividing the NAVD 88 AH8789. geopotential number by the normal gravity value computed on the AH8789. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AH8789.degrees latitude (g = 980.6199 \text{ gals.}).
 AH8789
 AH8789. The modeled gravity was interpolated from observed gravity values.
 AH8789
                                                           Units Estimated Accuracy MT (+/- 180 meters Scaled)
 AH8789;
                                                 East
                                 North
 AH8789; SPC FL E
                                              184,760.
                             362,540.
 AH8789
 AH8789
                                       SUPERSEDED SURVEY CONTROL
 AH8789
 AH8789. No superseded survey control is available for this station.
 AH8789
 AH8789_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML847535(NAD 83) AH8789_MARKER: DD = SURVEY DISK
 AH8789 SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 AH8789_STAMPING: R 461 1997
 AH8789_MARK LOGO: FLDEP
 AH8789 MAGNETIC: N = NO MAGNETIC MATERIAL
 AH8789_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 AH8789+STABILITY: SURFACE MOTION
AH8789_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 AH8789+SATELLITE: SATELLITE OBSERVATIONS - 1997
 AH8789
 AH8789
          HISTORY
                        - Date
                                     Condition
                                                         Report By
 AH8789
                        - 1997
         HISTORY
                                     MONUMENTED
 AH8789
 AH8789
                                       STATION DESCRIPTION
 AH8789
 AH8789'DESCRIBED BY FL DEPT OF ENV PRO 1997 (JLM)
 AH8789'THE MARK IS ABOUT 7.0 MI (11.3 KM) NORTHEAST OF LORIDA, 0.4 MI (0.6 AH8789'KM) WEST OF KISSIMMEE RIVER IN SECTION 17, TOWNSHIP 33 SOUTH, RANGE 32
 AH8789'EAST. TO REACH THE MARK FROM THE POST OFFICE IN LORIDA, GO SOUTHEAST
 AH8789'ON U.S. HIGHWAY 98 FOR 1.05 MI (1.69 KM) TO THE JUNCTION OF BLUFF AH8789'HAMMOCK ROAD ON THE LEFT AND THE SEABOARD COAST RAILROAD TRACKS, TURN
 AH8789'LEFT ON BLUFF HAMMOCK ROAD AND GO NORTHEAST FOR 4.15 MI (6.68 KM) TO
 AH8789'THE END OF THE PAVED ROAD AND A Y-JUNCTION, BEAR LEFT ON THE SAND ROAD
 AH8789'AND GO NORTH FOR 0.7 MI (1.1 KM) TO THE JUNCTION OF A DIRT ROAD ON THE AH8789'LEFT (LEADING NORTH) CONTINUE NORTHEAST ON THE SAND ROAD FOR 0.7 MI
 AH8789'(1.1 KM) TO THE JUNCTION OF A LEVEE ROAD ON THE LEFT, TURN LEFT ON THE
 AH8789'LEVEE ROAD AND GO NORTH FOR 0.05 MI (0.08 KM) TO A LOCKED GATE,
```

AH8789'CONTINUE NORTH ON THE LEVEE ROAD FOR 3.15 MI (5.07 KM) TO A 90 DEGREE AH8789'TURN EAST, TURN RIGHT AND GO EAST ON THE LEVEE ROAD FOR 0.55 MI (0.89 AH8789'KM) TO A 90 DEGREE TURN LEFT, TURN LEFT ON THE LEVEE ROAD AND GO NORTH AH8789'FOR 128.0 FT (39.0 M) TO THE T-JUNCTION OF AN EAST-WEST LEVEE ROAD, AH8789'TURN RIGHT ON THE LEVEE ROAD AND GO EAST FOR 0.15 MI (0.24 KM) TO THE AH8789'JUNCTION OF A DIM ROAD LEADING NORTH, TURN LEFT ON THE DIM ROAD AND GO AH8789'NORTH FOR 73.0 FT (22.3 M) TO A LOCKED GATE, CONTINUE NORTH ON THE DIM AH8789'ROAD FOR 78.0 FT (23.8 M) TO THE T-JUNCTION OF A TRAIL ROAD LEADING AH8789'EAST-WEST, TURN RIGHT ON THE TRAIL ROAD AND GO EAST FOR 1.4 MI (2.3 AH8789'KM) TO AN OPEN GATE, CONTINUE EAST ON THE TRAIL ROAD FOR 2.75 MI (4.43 AH8789'KM) TO A T-JUNCTION OF BOSWELL TRAIL, TURN RIGHT ON BOSWELL TRAIL AND AH8789'BOAT RAMP ON THE RIGHT, BEAR LEFT ON BOSWELL TRAIL AND GO NORTHEAST AH8789'BOAT RAMP ON THE RIGHT, BEAR LEFT ON BOSWELL TRAIL LEADING LEFT, BEAR AH8789'RIGHT ON BOSWELL TRAIL AND GO NORTHEAST AH8789'RIGHT ON BOSWELL TRAIL AND GO NORTHEAST AH8789'RIGHT ON BOSWELL TRAIL AND GO NORTHEAST AH8789'THE GROUND LEVEL WITH THE BOSWELL TRAIL. LOCATED 52.2 FT (15.9 M) AH8789'NORTH OF THE SOUTHEAST CORNER OF A BARBWIRE FENCE RUNNING SOUTHWEST AH8789'AND NORTH, 26.3 FT (8.0 M) WEST OF THE APPROXIMATE CENTERLINE OF AH8789'BOSWELL TRAIL, 1.0 FT (0.3 M) EAST OF A BARBWIRE FENCE AND 0.9 FT AH8789'CONTACT SOUTH FLORIDA WATER MANAGEMENT DISTRICT AT 561-686-8800.

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

LKBB3A. ABS

Windows Abstra Version 2.3 -- Jan 1, 2004 Fri Mar 03 13:47:45 2006

-*- FIELD ABSTRACT -*-060228-060228 HGZ L26807

8.0 MM ORDER 2 CLASS 2 SUTRON CORPORATION AND SOUTH FLORIDA WATER MANAGEMENT DISTRICT

PAGE 1

HIGHLANDS AND OKEECHOBEE COUNTY MONITORING WELLS ESTABLISH BENCH MARK NEAR MONITORING WELL LKBB3A

	FROM TO	START		DIST TOTAL (KM)	ELEV DIFF (MT)	-(F+B) TOTAL (MM)	MEAN DIFF FLD ELEV (MT)	C
0357 R	461						16. 28800	
0357 R		2281130	F	1. 33	-2. 15136 *	0.00	-2. 15136	1
0358 S	461			1. 33		0. 00	14. 13664♀	

ELEVATION REJECTION AND ERROR CODES

C - section elevation difference was rejected for cause ie. *43* record rejection code set to "F'

R - section elevation difference was rejected by Halperin rejection algorithm @ - section elevation difference does not include refraction correction

- section elevation difference does not include rod correction

INSTRUMENT CODE INSTRUMENT **RODS**

> 1 243 - 331132 396 - 111 396 - 222

> > LEVEL LINE SECTION RUNNING TREE

0357 0358♀

우

FROM T0 N. LATITUDE W. LONGI TUDE FIELD DISTANCE VS. COMPUTED

0.00 0357 273542 0810920 0.00 0810916 1.33 0357 0358 273621 1. 21♀

Windows Abstra Version 2.3 -- Jan 1, 2004 -- Fri Mar 03 13:47:45 2006

SECTI ON FROM TO

ERROR MESSAGES 0334 *** Bench mark description exists but mark not leveled to.

LKBB3B	Elevation:	50.79 ft	(NAVD 88)	51.98 ft	(NGVD 29)
Bench Mark 1:	U 556	44.99 ft	(NAVD 88)	46.18 ft	(NGVD 29)
Bench Mark 2:	V 556	49.75 ft	(NAVD 88)	50.94 ft	(NGVD 29)
Monitoring Well East:	LKBB3B	52.72 ft	(NAVD 88)	53.91 ft	(NGVD 29)
Brass Disk on Conc. Pad:	LKBB3B	50.12 ft	(NAVD 88)	51.31 ft	(NGVD 29)
Monitoring Well West:	LKBB3B	52.90 ft	(NAVD 88)	54.09 ft	(NGVD 29)
Brass Disk on Conc. Pad:	LKBB3B	50.10 ft	(NAVD 88)	51.29 ft	(NGVD 29)
Ground Elevation:	LKBB3B	49.82 ft	(NAVD 88)	51.01 ft	(NGVD 29)
Length of Run:	0.94 km	To Reach LKBB3I	3:		

Max Allowable Misclosure: 8 mm Actual Misclosure: 6 mm



FROM INTERSECTION US 98 HWY AND CR 700A (NW 176TH AVE.) GO NORTH ON CR 700A FOR 5.5 MILES TO NW 240^{TH} STREET. GO WEST ON NW 240TH STREET FOR 0.9 MILE TO NW 142^{ND} AVE. GO NORTH ON NW 142 AVE. FOR 5.0 MILES TO KISSIMEE PRAIRIE PRESERVE ENTRANCE. CONTINUE NORTH ON DIRT ROAD FOR 3.2 MILES TO DIRT ROAD. GO WEST ON DIRT ROAD FOR 6.5 MILES TO MARK ON LEFT NEAR MONITORING WELL LKBB3B. 3.7 FEET NORTHEAST OF NORTHWEST BALLARD POST, 3.6 FEET NORTH OF NORTH EDGE OF GREY PIPE OF WESTERN WELL, 10.0 FEET NORTHWEST OF NORTHWEST EDGE OF GREY PIPE OF EASTERN WELL. SET MAGNET 1 FOOT NORTH OF MONUMENT.

LKBC1B	Elevation:	41.92 ft	(NAVD 88)	43.12 ft	(NGVD 29)
Bench Mark 1:	KR 1486	41.91 ft	(NAVD 88)	43.07 ft	(NGVD 29)
Bench Mark 2:	ch Mark 2: E 463		(NAVD 88)	43.66 ft	(NGVD 29)
Monitoring Well:	LKBC1B	45.76 ft	(NAVD 88)	46.95 ft	(NGVD 29)
Concrete Pad:	LKBC1B	42.62 ft	(NAVD 88)	43.81 ft	(NGVD 29)
Ground Elevation:	LKBC1B	42.28 ft	(NAVD 88)	43.48 ft	(NGVD 29)
Length of Run:	2 27 km	To Reach LKBC1	B:		

12 mm Max Allowable Misclosure: Actual Misclosure: 5 mm



FROM INTERSECTION US 98 HWY & CR-721. GO WEST ON US 98 HWY FOR 8.1 MILES TO SANDHILL CRANE ROAD. GO NORTH THEN NORTHEASTERLY ON SANDHILL CRANE ROAD FOR 0.5 MILE TO MARK. 6.0 FEET SOUTHEAST OF SOUTHWEST BALLARD POST, 5.4 FEET SOUTHWEST OF SOUTHEAST BALLARD POST, 7.3 FEET SOUTHWEST OF SOUTHWEST EDGE OF GREY PIPE OF MONITORING WELL LKBC1B. SET MAGNET 1 FOOT NORTH OF MONUMENT.

Surveyor's Report Page 5



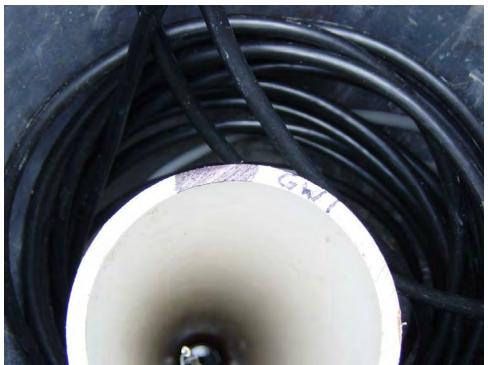
Nick Miller, Inc. Date of Photo: February 24, 2006 View: Looking at the well LKBB3B facing south





Nick Miller, Inc. Date of Photo: February 24, 2006 View: Close-up of the east well showing the contractor's markings





Nick Miller, Inc. Date of Photo: February 24, 2006 View: Close-up of the west well showing the contractor's markings





Nick Miller, Inc.

Date of Photo: February 24, 2006

View: Top View of east well's brass disk on concrete pad (Elevation on brass disk)





Nick Miller, Inc.
Date of Photo: February 24, 2006

View: Top View of west well's brass disk on concrete pad (Elevation on brass disk)



Nick Miller, Inc.

Date of Photo: February 24, 2006 View: Looking at the benchmark facing south



Nick Miller, Inc. Date of Photo: February 24, 2006 View: A top view of the benchmark DATASHEETS Page 1 of 2

The NGS Data Sheet

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

```
PROGRAM = datasheet95, VERSION = 8.8
       National Geodetic Survey, Retrieval Date = OCTOBER 26, 2015
DK8248 DESIGNATION - LKBB3B
DK8248 PID - DK8248
DK8248 STATE/COUNTY- FL/OKEECHOBEE
DK8248 COUNTRY - US
DK8248 USGS QUAD - FORT KISSIMMEE (1972)
DK8248
DK8248
                              *CURRENT SURVEY CONTROL
DK8248
DK8248* NAD 83(1986) POSITION- 27 35 10.
                                           (N) 081 08 00.
                                                              (W)
                                                                    SCALED
DK8248* NAVD 88 ORTHO HEIGHT - 15.483 (meters)
                                                      50.80 (feet) ADJUSTED
DK8248
DK8248 GEOID HEIGHT
                                -26.236 (meters)
                                                                    GEOID12B
DK8248 DYNAMIC HEIGHT -
                                15.460 (meters)
                                                      50.72 (feet) COMP
DK8248 MODELED GRAVITY - 979,155.5 (mgal)
                                                                    NAVD 88
DK8248
DK8248 VERT ORDER - SECOND
                                  CLASS I
DK8248
DK8248. The horizontal coordinates were scaled from a topographic map and have
DK8248.an estimated accuracy of \pm 6 seconds.
DK8248.
DK8248. The orthometric height was determined by differential leveling and
DK8248.adjusted by the NATIONAL GEODETIC SURVEY
DK8248.in May 2009.
DK8248
DK8248.No vertical observational check was made to the station.
DK8248
DK8248. Significant digits in the geoid height do not necessarily reflect accuracy.
DK8248.GEOID12B height accuracy estimate available <a href="here">here</a>.
DK8248. The dynamic height is computed by dividing the NAVD 88
DK8248.geopotential number by the normal gravity value computed on the
DK8248. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DK8248.degrees latitude (g = 980.6199 \text{ gals.}).
DK8248
DK8248. The modeled gravity was interpolated from observed gravity values.
                                               Units Estimated Accuracy
DK8248;
                          North
                                        East
DK8248; SPC FL E - 360,350.
                                     186,840.
                                                MT (+/-180 \text{ meters Scaled})
DK8248
                               SUPERSEDED SURVEY CONTROL
DK8248
DK8248
DK8248.No superseded survey control is available for this station.
DK8248 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML868513(NAD 83)
DK8248
DK8248 MARKER: DD = SURVEY DISK
DK8248 SETTING: 15 = METAL ROD DRIVEN INTO GROUND. SEE TEXT FOR ADDITIONAL
DK8248+WITH SETTING: INFORMATION.
DK8248 STAMPING: LKBB3B 2006
DK8248 MARK LOGO: SFLWMD
DK8248 PROJECTION: RECESSED 8 CENTIMETERS
DK8248_MAGNETIC: O = OTHER; SEE DESCRIPTION
DK8248 STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
DK8248 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
```

DATASHEETS Page 2 of 2

DK8248+SATELLITE: SATELLITE OBSERVATIONS - February 24, 2006 DK8248 HISTORY - Date Condition
DK8248 HISTORY - 20060224 MONUMENTED Report By NICKMI DK8248 DK8248 STATION DESCRIPTION DK8248 DK8248'DESCRIBED BY NICK MILLER INCORPORATED 2006 (ECD) DK8248'FROM INTERSECTION US 98 HWY AND CR 700A (NW 176TH AVE.) GO NORTH ON CR DK8248'700A FOR 5.5 MILES TO NW 240TH STREET. GO WEST ON NW 240TH STREET FOR DK8248'0.9 MILE TO NW 142ND AVE. GO NORTH ON NW 142 AVE. FOR 5.0 MILES TO DK8248'KISSIMEE PRAIRE PRESERVE ENTRANCE. CONTINUE NORTH ON DIRT ROAD FOR DK8248'3.2 MILES TO DIRT ROAD. GO WEST ON DIRT ROAD FOR 6.5 MILES TO MARK ON DK8248'LEFT NEAR MONITORING WELL LKBB3B. 3.7 FT NORTHEAST OF NORTHWEST DK8248'BALLARD POST, 3.6 FT NORTH OF NORTH EDGE OF GREY PIPE OF WESTERN DK8248'WELL, 10.0 FT NORTHWEST OF NORTHWEST EDGE OF GREY PIPE OF EASTERN DK8248'WELL. SET MONUMENT 1 FT NORTH OF MONUMENT. NOTE--ROD DEPTH UNKNOWN. DK8248'NO NOTIFICATION FROM NICKMI AS FAR AS ROD DEPTH. *** retrieval complete.

Elapsed Time = 00:00:01



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

				Rev. 4/01			
COUNTY OKEECHOBEE	PROJECT Hy Kissimmee Riv	drology – er Wells	DESIGNATION	LKBB3B 2006			
SECTION 21	TOWNSHIP 3	3 SOUTH	RANGE 32 EA	ST			
GEOGRAPHIC INDEX OF QUAD							
Established by Nick Miller Inc. Recovered by		NAME OF QUADRANGLE FORT KISSIMMEE					
SURVEYOR Stephen M. Gordon DA	ATE <u>02/24/2006</u>	FIELD BOOK	10	_ PAGE 14			
HORIZONTAL DATUM: 1927 (1	983 Other_	(circle	e one) ZONE	E or W			
STATE PLANE COORDINATES		E 612,853 ft	: I	N 1,182,177 ft			
LATITUDE: N 27.58588°		LONGITUDE: W 81	.13372°				
VERTICAL DATUM: MSL 1929	1988 Other	(circle	e one)	EL. 50.79 ft			
VERTICAL DATUM: MSL 1929	1988 Other	(circle	e one)	EL. 51.98 ft			
CONTROL ACCURACY: HORIZONTAL 1 2 3 SUB-METER (circle one) VERTICAL 1 2 3							
DESCRIPTION							
To Reach:							
FROM INTERSECTION US 98 HWY AND CR 700A (NW 176 TH AVE.) GO NORTH ON CR 700A							

FROM INTERSECTION US 98 HWY AND CR 700A (NW 176TH AVE.) GO NORTH ON CR 700A FOR 5.5 MILES TO NW 240TH STREET. GO WEST ON NW 240TH STREET FOR 0.9 MILE TO NW 142ND AVE. GO NORTH ON NW 142 AVE. FOR 5.0 MILES TO KISSIMEE PRAIRIE PRESERVE ENTRANCE. CONTINUE NORTH ON DIRT ROAD FOR 3.2 MILES TO DIRT ROAD. GO WEST ON DIRT ROAD FOR 6.5 MILES TO MARK ON LEFT NEAR MONITORING WELL LKBB3B. 3.7 FEET NORTHEAST OF NORTHWEST BALLARD POST, 3.6 FEET NORTH OF NORTH EDGE OF GREY PIPE OF WESTERN WELL, 10.0 FEET NORTHWEST OF NORTHWEST EDGE OF GREY PIPE OF EASTERN WELL. SET MAGNET 1 FOOT NORTH OF MONUMENT.

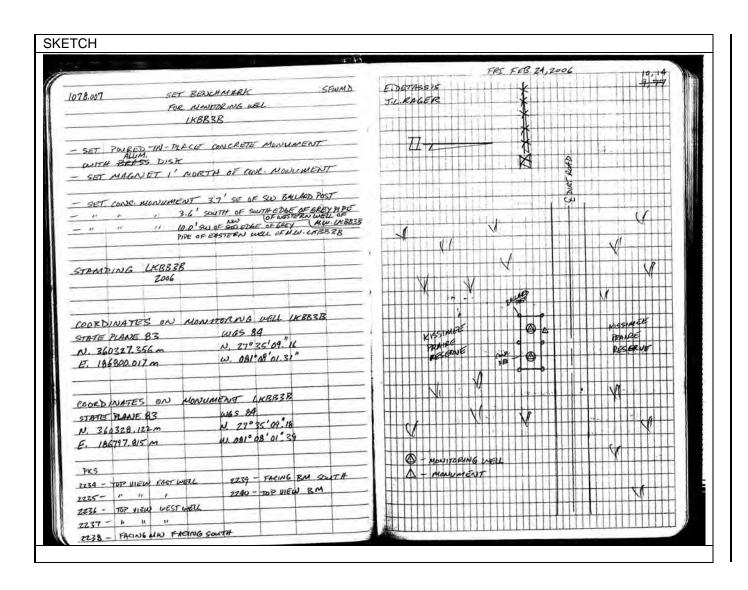
Benchmarks Used: U 556 & V 556

Notable Land marks:



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01



The NGS Data Sheet

See file <u>dsdata.txt</u> for more information about the datasheet.

```
DF8376 DESIGNATION - U 556
DF8376 PID - DF837
 DF8376
         PID
                          DF8376
         STATE/COUNTY- FL/OKEECHOBEE
DF8376
         USGS QUAD - FORT KISSIMMEE (1972)
 DF8376
 DF8376
                                   *CURRENT SURVEY CONTROL
DF8376
DF8376
DF8376* NAD 83(1986) - 27 35 03.
                                                 081 08 44.
                                          (N)
                                                                  (W)
                                                                           SCALED
                                 13.714
 DF8376* NAVD 88
                                         (meters)
                                                         44.99
                                                                  (feet)
                                                                           ADJUSTED
DF8376
         GEOID HEIGHT-
DF8376
                                  -26.22
                                          (meters)
                                                                           GEOID03
 DF8376
         DYNAMIC HT -
                                   13.694 (meters)
                                                          44.93
                                                                  (feet)
                                                                          COMP
                             979,153.2
DF8376
         MODELED GRAV-
                                                                           NAVD 88
                                           (mgal)
 DF8376
         VERT ORDER - SECOND
                                     CLASS I
 DF8376
DF8376
DF8376. The horizontal coordinates were scaled from a topographic map and have
 DF8376.an estimated accuracy of +/- 6 seconds.
 DF8376
DF8376. The orthometric height was determined by differential leveling
 DF8376.and adjusted by the National Geodetic Survey in May 2004..
 DF8376
DF8376. The geoid height was determined by GEOID03.
 DF8376
DF8376.The dynamic height is computed by dividing the NAVD 88 DF8376.geopotential number by the normal gravity value computed on the DF8376.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 DF8376.degrees latitude (g = 980.6199 \text{ gals.}).
 DF8376
DF8376. The modeled gravity was interpolated from observed gravity values.
 DF8376
                                                       Units Estimated Accuracy MT (+/- 180 meters Scaled)
 DF8376;
                                              East
                              North
DF8376;SPC FL E
                           360,140.
                                           185,630.
DF8376
DF8376
                                    SUPERSEDED SURVEY CONTROL
 DF8376
DF8376.No superseded survey control is available for this station.
DF8376
 DF8376 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML856511(NAD 83)
 DF8376_MARKER: DD = SURVEY DISK
 DF8376_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 DF8376_STAMPING: U 556 2001
 DF8376_MARK LOGO: FLDEP
DF8376_PROJECTION: RECESSED 8 CENTIMETERS
 DF8376_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
DF8376_STABILITY: C = MAY \ HOLD, BUT OF TYPE COMMONLY SUBJECT TO DF8376+STABILITY: SURFACE MOTION
 DF8376_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 DF8376+SATELLITE: SATELLITE OBSERVATIONS - April 13, 2005
DF8376
 DF8376
         HISTORY
                      - Date
                                   Condition
                                                      Report By
        HISTORY
                      - 20011115 MONUMENTED
                                                      FLDEP
DF8376
 DF8376
         HISTORY
                       - 20050413 GOOD
                                                      FLDEP
DF8376
DF8376
                                    STATION DESCRIPTION
 DF8376
DF8376'DESCRIBED BY FL DEPT OF ENV PRO 2001 (PBM)
 DF8376'THE MARK IS ABOUT 41.3 MI NORTHWEST OF OKEECHOBEE, 23.5 MI NORTHWEST
DF8376'OF BASINGER, IN DF8376'SECTION 29, TOWNSHIP 33 SOUTH, RANGE 32 EAST.
 DF8376'
 DF8376'TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY 441 (PARROTT
DF8376'STREET) AND U.S.
DF8376'HIGHWAY 98 (STATE HIGHWAY 70, PARK STREET) IN OKEECHOBEE, GO WEST ON
 DF8376'U.S. HIGHWAY 98
 DF8376'(STATE HIGHWAY 70, PARK STREET) FOR 1.15 MI TO THE JUNCTION OF U.S.
```

```
DF8376'HIGHWAY 98 NORTH ON
DF8376'THE RIGHT, TURN RIGHT ON U.S. HIGHWAY 98 AND GO NORTHWESTERLY FOR 0.65
DF8376'MI TO THE
DF8376'RAILROAD TRACKS, CONTINUE NORTHWESTERLY ON U.S. HIGHWAY 98 FOR 11.9 MI
DF8376'TO THE JUNCTION
DF8376'OF COUNTY ROAD 68 EAST ON THE RIGHT, CONTINUE NORTHWESTERLY ON U.S.
DF8376'HIGHWAY 98 FOR DF8376'1.85 MI TO THE JUNCTION OF NORTHWEST 176TH AVENUE (COUNTY ROAD 700-A)
DF8376'ON THE RIGHT,
DF8376'CONTINUE NORTHWESTERLY ON U.S. HIGHWAY 98 FOR 1.7 MI TO THE JUNCTION
DF8376'OF NORTHWEST
DF8376'203RD AVENUE (MICCO BLUFF ROAD) ON THE RIGHT, TURN RIGHT ON NORTHWEST
DF8376'203RD AVENUE
DF8376'(MICCO BLUFF ROAD) AND GO NORTH-NORTHWESTERLY FOR 0.2 MI TO THE
DF8376'JUNCTION OF
DF8376'NORTHWEST 160TH DRIVE (MICCO BLUFF ROAD, COUNTY ROAD 68), TURN LEFT ON
DF8376'NORTHWEST
DF8376'160TH DRIVE (MICCO BLUFF ROAD, COUNTY ROAD 68) AND GO DF8376'WEST-NORTHWESTERLY FOR 6.15~\mathrm{MI} TO
DF8376'THE END OF THE PAVED ROAD AND THE JUNCTION OF A DIRT ROAD LEADING
DF8376'NORTHWEST AND THE DF8376'BEGINNING OF NORTHWEST 285TH DRIVE (A DIRT ROAD LEADING
DF8376'NORTHWESTERLY), BEAR RIGHT ON
DF8376'NORTHWEST 285TH DRIVE AND GO NORTHWESTERLY FOR 2.8 MI TO AN EAST-WEST
DF8376'FENCELINE
DF8376'OPENING AND THE JUNCTION OF A DIRT ROAD ON THE LEFT LEADING WEST,
DF8376'PASSING THROUGH THE
DF8376'OPENING CONTINUE NORTHWEST ON THE DIRT ROAD (NORTHWEST 285TH DRIVE)
DF8376'FOR 0.7 MI TO AN
DF8376'EAST-WEST FENCELINE OPENING WITH ONE 25.0 FT CONCRETE POLE ON BOTH
DF8376'SIDES OF ROAD
DF8376'CONTINUE NORTHWEST ON THE DIRT ROAD FOR 0.7 MI TO THE INTERSECTION OF
DF8376'AN EAST-WEST
DF8376'DIRT ROAD, CONTINUE NORTHWEST ON THE DIRT ROAD FOR 2.3 MI TO A METAL
DF8376'GATE, CONTINUE
DF8376'NORTHWEST ON THE DIRT ROAD FOR 1.25 MI TO A LOCKED GATE, CONTINUE
DF8376'NORTHEAST ON THE
DF8376'DIRT ROAD FOR 1.4 MI TO A BARBWIRE GATE AND THE JUNCTION OF A DIM ROAD
DF8376'ON THE LEFT, TURN
DF8376'LEFT ON THE DIM TRACK ROAD AND GO NORTHWESTERLY FOR 6.0 MI TO A
DF8376'Y-JUNCTION, BEAR LEFT
DF8376'AND GO NORTHWEST ON THE DIM TRACK ROAD FOR 2.0 MI TO A T-JUNCTION AND
DF8376'THE MARK ON THE
DF8376'LEFT, SET IN THE TOP OF A ROUND CONCRETE MONUMENT RECESSED 0.6 FT
DF8376'BELOW THE LEVEL OF DF8376'THE GROUND AND BELOW THE LEVEL OF THE EAST-WEST ROAD.
                                                                 THE MARK CAN
DF8376'ALSO BE REACHED
DF8376'FROM THE JUNCTION OF STATE HIGHWAY 70 (PARK STREET) AND U.S. HIGHWAY
DF8376'441 (PARROTT
DF8376'STREET) IN OKEECHOBEE, GO NORTH ON U.S. HIGHWAY 441 (PARROTT STREET)
DF8376'FOR 14.4 MI TO THE \,
DF8376'JUNCTION OF COUNTY ROAD 68 ON THE RIGHT, CONTINUE NORTH ON U.S.
DF8376'HIGHWAY 441 FOR 1.0 MI TO
DF8376'THE JUNCTION OF COUNTY ROAD 724 (NW 240TH STREET) ON THE LEFT, TURN
DF8376'LEFT ON COUNTY DF8376'ROAD 724 (NW 240TH STREET) AND GO WEST FOR 12.2 MI TO THE JUNCTION OF
DF8376'COUNTY ROAD 700-A
DF8376'(NW 176TH AVENUE) ON THE LEFT, CONTINUE WEST ON COUNTY ROAD 724 (NW
DF8376'240TH STREET) FOR
DF8376'1.0 MI TO THE END OF THE PAVEMENT AND A 90 DEGREE TURN RIGHT (NORTH),
DF8376'CONTINUE NORTH ON
DF8376'THE SAND ROAD FOR 5.1 MI TO A CURVE RIGHT AND THE JUNCTION OF A SAND
DF8376'ROAD ON THE LEFT
DF8376'(ENTRANCE TO KISSIMMEE STATE PARK PRESERVE), BEAR LEFT AND GO NORTH ON
DF8376'THE SAND ROAD DF8376'FOR 2.8 MI TO A 90 DEGREE TURN LEFT (WEST), CONTINUE WEST ON THE SAND
DF8376'ROAD FOR 1.65 MI TO
DF8376'THE JUNCTION OF A SAND ROAD ON THE LEFT, CONTINUE WEST ON SAND ROAD
DF8376'(ROAD NARROWS AT
DF8376'THIS POINT) FOR 6.15 MI TO THE MARK ON THE LEFT.
DF8376'
DF8376'LOCATED 45.0 FT SOUTH OF THE CENTERLINE OF THE SAND ROAD, 42.0 FT WEST
DF8376'OF A 32-INCH OAK
DF8376'TREE AND 1.5 FT WEST OF A CARSONITE WITNESS POST.
DF8376'
DF8376'NOTE A MAGNET WAS IMBEDDED IN THE GROUND ON THE SOUTH SIDE OF THE
DF8376'MONUMENT.
DF8376
DF8376'NOTE FOR KEY CONTACT SOUTH FLORIDA WATER MANAGEMENT DISTRICT.
DF8376
DF8376
```

DATASHEETS

DF8376
DF8376
DF8376'RECOVERY NOTE BY FL DEPT OF ENV PRO 2005 (JLM)
DF8376'RECOVERED AS DESCRIBED.

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

The NGS Data Sheet

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

```
PID - DF8377
STATE/COUNTY- FL/OKEECHOBEE
DF8377
        USGS QUAD - FORT KISSIMMEE (1972)
 DF8377
 DF8377
                                   *CURRENT SURVEY CONTROL
DF8377
DF8377
                                                081 09 18.
                                                               (W)
DF8377* NAD 83(1986) - 27 35 07.
                                        (N)
                                                                          SCALED
 DF8377* NAVD 88
                                15.165
                                        (meters)
                                                        49.75
                                                                         ADJUSTED
                                                                 (feet)
DF8377
         GEOID HEIGHT-
DF8377
                                 -26.22
                                         (meters)
                                                                          GEOID03
 DF8377
         DYNAMIC HT -
                                  15.142 (meters)
                                                         49.68
                                                                 (feet)
                                                                         COMP
                             979,151.9
DF8377
         MODELED GRAV-
                                                                         NAVD 88
                                          (mgal)
 DF8377
DF8377
         VERT ORDER - SECOND
                                    CLASS I
DF8377
DF8377. The horizontal coordinates were scaled from a topographic map and have
 DF8377.an estimated accuracy of +/- 6 seconds.
 DF8377
DF8377. The orthometric height was determined by differential leveling
 DF8377.and adjusted by the National Geodetic Survey in May 2004..
 DF8377
DF8377. The geoid height was determined by GEOID03.
 DF8377
DF8377. The dynamic height is computed by dividing the NAVD 88 DF8377. geopotential number by the normal gravity value computed on the DF8377. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 DF8377.degrees latitude (g = 980.6199 \text{ gals.}).
 DF8377
DF8377. The modeled gravity was interpolated from observed gravity values.
 DF8377
                                                      Units Estimated Accuracy MT (+/- 180 meters Scaled)
 DF8377;
                                             East
                              North
DF8377;SPC FL E
                           360,260.
                                          184,700.
DF8377
DF8377
                                    SUPERSEDED SURVEY CONTROL
 DF8377
DF8377.No superseded survey control is available for this station.
DF8377
DF8377_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML847512(NAD 83) DF8377_MARKER: DD = SURVEY DISK
 DF8377_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 DF8377_STAMPING: V 556 2001
DF8377_MARK LOGO: FLDEP DF8377_PROJECTION: FLUSH
 DF8377_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
 DF8377_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
DF8377+STABILITY: SURFACE MOTION
 DF8377_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 DF8377+SATELLITE: SATELLITE OBSERVATIONS - April 13, 2005
DF8377
DF8377
         HISTORY
                      - Date
                                  Condition
                                                     Report By
        HISTORY
                      - 20011115 MONUMENTED
DF8377
                                                     FLDEP
 DF8377
         HISTORY
                      - 20050413 GOOD
                                                     FLDEP
DF8377
                                    STATION DESCRIPTION
DF8377
DF8377
DF8377'DESCRIBED BY FL DEPT OF ENV PRO 2001 (PBM)
 DF8377'THE MARK IS ABOUT 41.3 MI NORTHWEST OF OKEECHOBEE, 23.5 MI NORTHWEST
DF8377'OF BASINGER, IN
DF8377'SECTION 20, TOWNSHIP 33 SOUTH, RANGE 32 EAST.
DF8377'
 DF8377'TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHWAY 70 (PARK STREET)
 DF8377'AND U.S. HIGHWAY
DF8377'441 (PARROTT STREET) IN OKEECHOBEE, GO NORTH ON U.S. HIGHWAY 441
 DF8377'(PARROTT STREET) FOR
 DF8377'14.4 MI TO THE JUNCTION OF COUNTY ROAD 68 ON THE RIGHT, CONTINUE NORTH
```

Elapsed Time = 00:00:00

```
DF8377'ON U.S. HIGHWAY
DF8377'441 FOR 1.0 MI TO THE JUNCTION OF COUNTY ROAD 724 (NW 240TH STREET) ON
DF8377'THE LEFT, TURN LEFT DF8377'ON COUNTY ROAD 724 (NW 240TH STREET) AND GO WEST FOR 12.2 MI TO THE
DF8377'JUNCTION OF COUNTY
DF8377'ROAD 700-A (NW 176TH AVENUE) ON THE LEFT, CONTINUE WEST ON COUNTY ROAD
DF8377'724 (NW 240TH
DF8377'STREET) FOR 1.0 MI TO THE END OF THE PAVEMENT AND A 90 DEGREE TURN
DF8377'RIGHT (NORTH)
DF8377'CONTINUE NORTH ON THE SAND ROAD FOR 5.1 MI TO A CURVE RIGHT AND THE
DF8377'JUNCTION OF A SAND
DF8377'ROAD ON THE LEFT (ENTRANCE TO KISSIMMEE STATE PARK PRESERVE), BEAR
DF8377'LEFT ON THE SAND
DF8377'ROAD AND GO NORTH FOR 2.8 MI TO A 90 DEGREE TURN LEFT (WEST), CONTINUE
DF8377'WEST ON THE SAND
DF8377'ROAD FOR 1.65 MI TO THE JUNCTION OF A SAND ROAD ON THE LEFT, CONTINUE
DF8377'WEST ON THE SAND
DF8377'ROAD (ROAD NARROWS AT THIS POINT) FOR 6.65 MI TO THE KISSIMMEE RIVER
DF8377'AND THE MARK ON THE
DF8377'LEFT, SET IN TOP OF A ROUND CONCRETE MONUMENT FLUSH WITH THE GROUND
DF8377'AND ABOUT LEVEL DF8377'WITH THE ROAD.
DF8377'
DF8377'LOCATED 90.0 FT EAST OF THE EDGE OF THE RIVER BANK, 50.0 FT NORTH OF A
DF8377'24-INCH CABBAGE
DF8377'PALM, 48.8 FT EAST OF A NO TRESPASSING SIGN, 36.0 FT SOUTH-SOUTHWEST
DF8377'OF THE APPROXIMATE
DF8377'CENTERLINE OF THE SAND ROAD AND 3.0 FT EAST OF A CARSONITE WITNESS
DF8377'POST.
DF8377'
DF8377'NOTE A MAGNET WAS IMBEDDED IN THE GROUND ON THE SOUTH SIDE OF THE
DF8377'MONUMENT.
DF8377'
DF8377'NOTE FOR KEY CONTACT SOUTH FLORIDA WATER MANAGEMENT DISTRICT.
DF8377'
DF8377'
DF8377'
DF8377'
DF8377'
DF8377'
DF8377
DF8377
                                 STATION RECOVERY (2005)
DF8377
DF8377'RECOVERY NOTE BY FL DEPT OF ENV PRO 2005 (JLM)
DF8377'RECOVERED AS DESCRIBED.
*** retrieval complete.
```

file:///Zl/Recorder_wells/LKBB3B/Contractors%20well%20report24-feb-06/Benchmarks/NGS%20Source%20Bench/V556.htm[10/26/2015 4:16:10 PM]

LKBB3B. ABS

Windows Abstra Version 2.3 -- Jan 1, 2004 Fri Mar 03 13:36:40 2006

-*- FIELD ABSTRACT -*-

060301-060302 HGZ L26807 8.0 MM ORDER 2 CLASS 2 PAGE 1 SUTRON CORPORATION AND SOUTH FLORIDA WATER MANAGEMENT DISTRICT HIGHLANDS AND OKEECHOBEE COUNTY MONITORING WELLS ESTABLISH BENCH MARK NEAR MONITORING WELL LKBB3B

FROM TO		START	F/B	DIST TOTAL (KM)	ELEV DIFF (MT)		-(F+B) TOTAL (MM)	MEAN DIFF FLD ELEV (MT)	C
0360 U 556								13. 71400	
0360 U 556 0359 LKBB3B		3011100 3021050 SL 1		1. 26 1. 27 1. 26	1. 76806 -1. 76838	* *	0. 31	1. 76822 15. 48222	- 1 2
 0360 U 556		3021215	 F	0. 94	 1. 44536	 *	0.31		- 2
0361 V 556	DE JECT	LON AND I	-0000	0. 94			0.00	15. 15936♀	

ELEVATION REJECTION AND ERROR CODES

C - section el evation difference was rejected for cause

ie. *43* record rejection code set to "F"

R - section elevation difference was rejected by Halperin rejection algorithm

@ - section elevation difference does not include refraction correction

section elevation difference does not include rod correction

+	I NSTRUMENT	CODE	I NSTRUMENT		RODS
Ŷ.	1 2		243 - 331132 243 - 332854	396 - 111 396 - 333	396 - 222 396 - 444

LEVEL LINE SECTION RUNNING TREE

0360 (0359) 0361₽ FIELD DISTANCE VS. COMPUTED FROM T0 N. LATI TUDE W. LONGI TUDE 0.00 0360 273503 0810844 0.00 0360 0359 273509 0810801 1.26 1.19 0360 0361 273507 0810918 0.94 0. 94♀ Windows Abstra Version 2.3 -- Jan 1, 2004 -- Fri Mar 03 13:36:40 2006

SECTION FROM TO ERRORMESSAGES

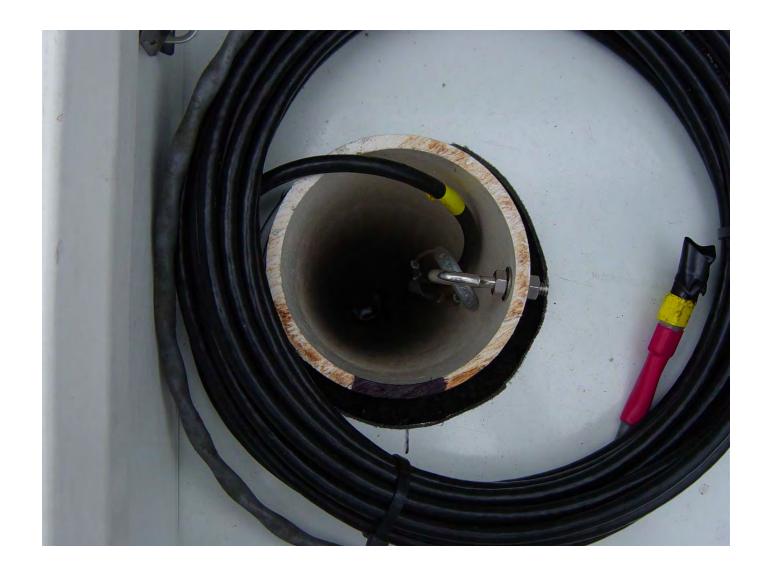
LKBC1B



Nick Miller, Inc.

Date of Photo: February 25, 2006 View: Looking at the well LKBC1B facing east

LKBC1B



Nick Miller, Inc.
Date of Photo: February 25, 2006

View: Close-up of the well showing the contractor's markings

LKBC1B





Nick Miller, Inc. Date of Photo: February 25, 2006 View: Top View of concrete pad (Elevation on mark 1' west of well)

LKBC1B



Nick Miller, Inc. Date of Photo: February 25, 2006 View: Looking at the benchmark facing north

LKBC1B



Nick Miller, Inc. Date of Photo: February 25, 2006 View: A top view of the benchmark DATASHEETS Page 1 of 2

The NGS Data Sheet

```
PROGRAM = datasheet95, VERSION = 8.8
       National Geodetic Survey, Retrieval Date = OCTOBER 26, 2015
DK8246 DESIGNATION - LKBC1B
DK8246 PID
             - DK8246
DK8246 STATE/COUNTY- FL/HIGHLANDS
DK8246 COUNTRY - US
DK8246 USGS QUAD - BASINGER NW (1972)
DK8246
DK8246
                               *CURRENT SURVEY CONTROL
DK8246
DK8246* NAD 83(1986) POSITION- 27 24 33.
                                           (N) 081 10 07.
                                                               (W)
                                                                    SCALED
DK8246* NAVD 88 ORTHO HEIGHT - 12.774 (meters)
                                                       41.91 (feet) ADJUSTED
DK8246
DK8246 GEOID HEIGHT
                                -26.055 (meters)
                                                                    GEOID12B
DK8246 DYNAMIC HEIGHT -
                                 12.754 (meters)
                                                       41.84 (feet) COMP
DK8246 MODELED GRAVITY -
                           979,125.2 (mgal)
                                                                    NAVD 88
DK8246
DK8246 VERT ORDER
                     - SECOND
                                  CLASS I
DK8246
DK8246. The horizontal coordinates were scaled from a topographic map and have
DK8246.an estimated accuracy of \pm 6 seconds.
DK8246.
DK8246. The orthometric height was determined by differential leveling and
DK8246.adjusted by the NATIONAL GEODETIC SURVEY
DK8246.in May 2009.
DK8246
DK8246.No vertical observational check was made to the station.
DK8246
DK8246. Significant digits in the geoid height do not necessarily reflect accuracy.
DK8246.GEOID12B height accuracy estimate available <a href="here">here</a>.
DK8246. The dynamic height is computed by dividing the NAVD 88
DK8246.geopotential number by the normal gravity value computed on the
DK8246.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DK8246.degrees latitude (g = 980.6199 \text{ gals.}).
DK8246
DK8246. The modeled gravity was interpolated from observed gravity values.
                                                Units Estimated Accuracy
DK8246;
                          Nort.h
                                        East
                                                MT (+/-180 \text{ meters Scaled})
DK8246; SPC FL E - 340,750.
                                     183,330.
DK8246
                               SUPERSEDED SURVEY CONTROL
DK8246
DK8246
DK8246.No superseded survey control is available for this station.
DK8246 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML833317 (NAD 83)
DK8246
DK8246 MARKER: DD = SURVEY DISK
DK8246 SETTING: 15 = METAL ROD DRIVEN INTO GROUND. SEE TEXT FOR ADDITIONAL
DK8246+WITH SETTING: INFORMATION.
DK8246 STAMPING: LKBC1B 2006
DK8246 MARK LOGO: SFLWMD
DK8246 MAGNETIC: N = NO MAGNETIC MATERIAL
DK8246 STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
DK8246
DK8246 HISTORY - Date Condition
                                              Report By
```

DATASHEETS Page 2 of 2

DK8246 HISTORY - 20060225 MONUMENTED NICKMI
DK8246
DK8246 STATION DESCRIPTION
DK8246
DK8246'DESCRIBED BY NICK MILLER INCORPORATED 2006 (ECD)
DK8246'FROM INTERSECTION US 98 HWY AND CR-721. GO WEST ON US 98 HWY FOR 8.1
DK8246'MILES TO SANDHILL CRANE ROAD. GO NORTH THEN NORTHEASTERLY ON SANDHILL
DK8246'CRANE ROAD FOR 0.5 MILE TO MARK. 6.0 FT SOUTHEAST OF SOUTHWEST
DK8246'BALLARD POST, 5.4 FT SOUTHWEST OF SOUTHEAST BALLARD POST, 7.3 FT
DK8246'SOUTHWEST OF SOUTHWEST EDGE OF GREY PIPE OF MONITORING WELL LKBC1B.
DK8246'SET MAGNET 1 FT NORTH OF MONUMENT. NOTE--ROD DEPTH UNKNOWN. NO
DK8246'NOTIFICATION FROM NICKMI AS FAR AS ROD ROD DEPTH.

*** retrieval complete. Elapsed Time = 00:00:01



Benchmarks Used: KR 1486 & E 463

Notable Land marks:

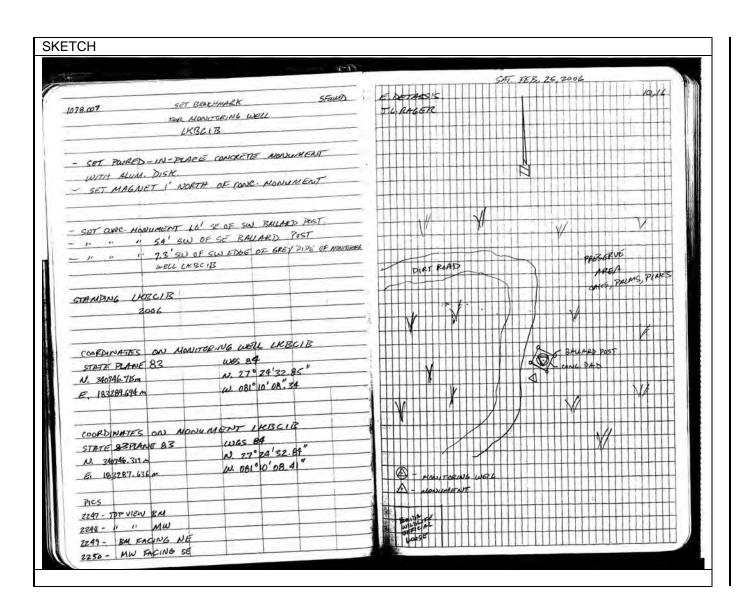
SOUTH FLORIDA WATER MANAGEMENT DISTRICT

				Rev. 4/01				
COUNTY HIGHLANDS	PROJECT Hy Kissimmee Riv		DESIGNATION LKBC1B 2006					
SECTION 30	TOWNSHIP 3	5 SOUTH	RANGE	32 EAST				
GEOGRAPHIC INDEX OF QUAD								
Established by Nick Miller Inc. Recovered by	NAME OF QUADRANGLE BASINGER NW							
SURVEYOR Stephen M. Gordon DA	ATE <u>02/25/2006</u>	FIELD BOOK	10	PAGE _ 16				
HORIZONTAL DATUM: 1927	Other_	(circle	ZONE E or W					
STATE PLANE COORDINATES		E 601,336 ft	t	N 1,117,932 ft				
LATITUDE: N 27.40912°	LONGITUDE: W 81	.16900°						
VERTICAL DATUM: MSL 1929	1988 Other	(circle one)		EL. 41.92 ft				
VERTICAL DATUM: MSL 1929 1988 Other (circle one) EL. 43								
CONTROL ACCURACY: HORIZONTAL 1 2 3 SUB-METER (circle one) VERTICAL 1 2 3								
DESCRIPTION								
To Reach:								
FROM INTERSECTION US 98 HWY & CR-721. GO WEST ON US 98 HWY FOR 8.1 MILES TO SANDHILL CRANE ROAD. GO NORTH THEN NORTHEASTERLY ON SANDHILL CRANE ROAD FOR 0.5 MILE TO MARK. 6.0 FEET SOUTHEAST OF SOUTHWEST BALLARD POST, 5.4 FEET SOUTHWEST OF SOUTHEAST BALLARD POST, 7.3 FEET SOUTHWEST OF SOUTHWEST EDGE OF GREY PIPE OF MONITORING WELL LKBC1B. SET MAGNET 1 FOOT NORTH OF MONUMENT.								



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01



The NGS Data Sheet

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

```
******
AH8827 DESIGNATION - KR 1486
AH8827 PID - AH8827
AH8827 STATE/COUNTY- FL/HIGHLANDS
AH8827 USGS QUAD - BASINGER NW (1972)
 AH8827
                                    *CURRENT SURVEY CONTROL
 AH8827
 AH8827
 AH8827* NAD 83(1999) - 27 23 57.56631(N) 081 09 46.24641(W)
                                                                           ADJUSTED
AH8827* NAVD 88
AH8827
                                  12.775 (meters)
                                                           41.91 (feet) ADJUSTED
                             870,548.211 (meters)
 AH8827 X
                                                                             COMP
                       - -5,599,380.303 (meters)
 AH8827
         Y
                                                                             COMP
 AH8827 Z
                       - 2,917,564.210 (meters)
                                                                             COMP
                             -1.84 (seconds)
 AH8827 LAPLACE CORR-
                                                                             DEFLEC99
AH8827 ELLIP HEIGHT-
AH8827 GEOID HEIGHT-
AH8827 DYNAMIC HT -
                                   -13.23
                                           (meters)
                                                                (05/31/01) GPS OBS
                                   -26.03
                                                                             GEOID03
                                   12.755 (meters)
                                                           41.85 (feet) COMP
 AH8827 MODELED GRAV-
                            979,123.7 (mgal)
                                                                             NAVD 88
 AH8827
AH8827 HORZ ORDER - FIRST
AH8827 VERT ORDER - SECOND
AH8827 ELLP ORDER - FOURTH
                                      CLASS I
                                      CLASS I
 AH8827
 AH8827. The horizontal coordinates were established by GPS observations
 AH8827.and adjusted by the National Geodetic Survey in May 2001..
 AH8827
 AH8827. The orthometric height was determined by differential leveling
 AH8827.and adjusted by the National Geodetic Survey in July 1999..
 AH8827.No vertical observational check was made to the station.
 AH8827
 AH8827. The X, Y, and Z were computed from the position and the ellipsoidal ht.
 AH8827
 AH8827. The Laplace correction was computed from DEFLEC99 derived deflections.
 AH8827
 AH8827. The ellipsoidal height was determined by GPS observations
 AH8827.and is referenced to NAD 83.
 AH8827
 AH8827. The geoid height was determined by GEOID03.
 AH8827
 AH8827. The dynamic height is computed by dividing the NAVD 88
 AH8827.geopotential number by the normal gravity value computed on the AH8827.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AH8827.degrees latitude (g = 980.6199 \text{ gals.}).
 AH8827
 AH8827. The modeled gravity was interpolated from observed gravity values.
 AH8827
 AH8827;
                                                         Units Scale Factor Converg.
                               North
                                                East
                   - 339,659.742 183,895.135 MT 0.99994438 -0 04 29.8

- 1,114,367.00 603,329.29 sFT 0.99994438 -0 04 29.8

- 3,030,675.833 483,900.630 MT 0.99960320 -0 04 29.8
 AH8827; SPC FL E
 AH8827;SPC FL E
AH8827;UTM 17
                                                                               -0 04 29.8
 AH8827
                       - Elev Factor x Scale Factor =

- 1.00000208 x 0.99994438 =

- 1.00000208 x 0.99960320 =
 AH8827!
                                                                 Combined Factor
 AH8827!SPC FL E
                                                                 0.99994646
 AH8827!UTM 17
                                                              0.99960528
 AH8827
 AH8827:
                           Primary Azimuth Mark
                                                                          Grid Az
                       - KR 1487
 AH8827:SPC FL E
                                                                          300 49 02.8
 AH8827:UTM 17
                      - KR 1487
                                                                          300 49 02.8
 AH8827
 AH8827
 AH8827 PID Reference Object
                                                          Distance Geod. Az
dddmmss.s
 AH8827
                                                       APPROX. 0.8 KM 3004433.0
         AH8826 KR 1487
 AH8827
 AH8827
 AH8827
 AH8827
                                     SUPERSEDED SURVEY CONTROL
```

AH8827

```
NAD 83(1990) - 27 23 57.56535(N)
                                                       081 09 46.24611(W) AD(
AH8827
AH8827 ELLIP H (06/01/99) -13.24
AH8827 NAVD 88 (06/01/99) 12.82
                                                                                GP(
                                                                                             ) 4 1
                                               (m)
                                               (m)
                                                                 42.1
                                                                           (f) LEVELING
AH8827
AH8827.Superseded values are not recommended for survey control. AH8827.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AH8827. See file dsdata.txt to determine how the superseded data were derived.
AH8827
AH8827_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML8390130676(NAD 83)
AH8827_MARKER: DD = SURVEY DISK
AH8827_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AH8827 STAMPING: KR-1486 GPS 1993 JVD
AH8827_MARK LOGO: USE
AH8827_MAGNETIC: N = NO MAGNETIC MATERIAL
AH8827 STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AH8827+STABILITY: SURFACE MOTION AH8827_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AH8827+SATELLITE: SATELLITE OBSERVATIONS - August 06, 1997
AH8827
AH8827
         HISTORY
                         - Date
                                       Condition
                                                             Report By
AH8827 HISTORY
                         - 1993
                                       MONUMENTED
                                                             USE
AH8827 HISTORY
                         - 19970806 GOOD
AH8827
AH8827
                                         STATION DESCRIPTION
AH8827
AH8827'DESCRIBED BY FL DEPT OF ENV PRO 1997 (JLM)
AH8827'THE MARK IS ABOUT 26.5 MI (42.6 KM) NORTHWEST OF OKEECHOBEE, 6.5 MI AH8827'(10.5 KM) SOUTHEAST OF LORIDA, 2.7 MI (4.3 KM) WEST OF THE KISSIMMEE AH8827'RIVER IN SECTION 30, TOWNSHIP 35 SOUTH, RANGE 32 EAST. TO REACH THE
AH8827'MARK FROM THE POST OFFICE IN LORIDA, GO SOUTHEAST ON U.S. HIGHWAY 9 AH8827'FOR 3.4 MI (5.5 KM) TO THE JUNCTION OF COUNTY ROAD 621 ON THE RIGHT,
                                                                                   HIGHWAY 98
AH8827'CONTINUE SOUTHEAST ON U.S. HIGHWAY 98 FOR 3.15 MI (5.07 KM) TO THE
AH8827'NORTH END OF THE BRIDGE OVER THE ISTOKPOGA CANAL AND THE MARK ON THE
AH8827'RIGHT, A STANDARD CORPS OF ENGINEERS BRASS DISK SET IN THE TOP OF A
AH8827'ROUND CONCRETE MONUMENT, PROJECTING 0.2 FT (6.1 CM) ABOVE THE LEVEL OF
AH8827'THE GROUND AND 0.3 FT (9.1 CM) BELOW THE LEVEL OF U.S. HIGHWAY 98.
AH8827'LOCATED 91.8 FT (28.0 M) NORTHEAST OF THE NORTHEAST RAIL OF THE AH8827'RAILROAD TRACKS, 63.3 FT (19.3 M) NORTHWEST OF SURVEY MARK F C D 1
AH8827'(FLSRD MARK) , 63.2 FT (19.3 M) NORTHWEST OF THE NORTHWEST END OF THE
AH8827'BRIDGE OVER THE ISTOKPOGA CANAL, 22.0 FT (6.7 M) SOUTHWEST OF THE
AH8827'CENTERLINE OF U.S. HIGHWAY 98 AND 1.6 FT (0.5 M) NORTHWEST OF A CORPS
AH8827'OF ENGINEERS CARSONITE WITNESS POST.
*** retrieval complete.
Elapsed Time = 00:00:00
```

The NGS Data Sheet

```
See file <u>dsdata.txt</u> for more information about the datasheet.
```

```
AH8825 DESIGNATION - E 463
AH8825 PID - AH8825
          STATE/COUNTY- FL/HIGHLANDS
 AH8825
          USGS QUAD - BASINGER NW (1972)
 AH8825
 AH8825
                                       *CURRENT SURVEY CONTROL
 AH8825
 AH8825
 AH8825* NAD 83(1986) - 27 24 19.
                                            (N)
                                                     081 10 29.
                                                                         (W)
                                                                                   SCALED
 AH8825* NAVD 88
                                    12.956 (meters)
                                                               42.51
                                                                         (feet)
                                                                                  ADJUSTED
 AH8825
          GEOID HEIGHT-
 AH8825
                                     -26.02 (meters)
                                                                                  GEOID03
          DYNAMIC HT -
                                      12.937 (meters)
                                                                42.44 (feet)
 AH8825
                                                                                  COMP
                                979,124.8
          MODELED GRAV-
                                                                                  NAVD 88
 AH8825
                                               (mgal)
 AH8825
 AH8825
          VERT ORDER - SECOND
                                        CLASS I
 AH8825
 AH8825. The horizontal coordinates were scaled from a topographic map and have
 AH8825.an estimated accuracy of +/- 6 seconds.
 AH8825
 AH8825. The orthometric height was determined by differential leveling
 AH8825.and adjusted by the National Geodetic Survey in July 1999..
 AH8825
 AH8825. The geoid height was determined by GEOID03.
 AH8825. The dynamic height is computed by dividing the NAVD 88 AH8825. geopotential number by the normal gravity value computed on the AH8825. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AH8825.degrees latitude (g = 980.6199 \text{ gals.}).
 AH8825
 AH8825. The modeled gravity was interpolated from observed gravity values.
 AH8825
                                                             Units Estimated Accuracy MT (+/- 180 meters Scaled)
 AH8825;
                                                   East
                                 North
 AH8825; SPC FL E
                              340,320.
                                               182,720.
 AH8825
 AH8825
                                        SUPERSEDED SURVEY CONTROL
 AH8825
 AH8825.No superseded survey control is available for this station.
 AH8825
 AH8825_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML827313(NAD 83) AH8825_MARKER: DD = SURVEY DISK
 AH8825_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 AH8825_STAMPING: E 463 1997
 AH8825_MARK LOGO: FLDEP
 AH8825_MAGNETIC: N = NO MAGNETIC MATERIAL
 AH8825_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 AH8825+STABILITY: SURFACE MOTION
AH8825_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 AH8825+SATELLITE: SATELLITE OBSERVATIONS - 1997
 AH8825
 AH8825
          HISTORY
                         - Date
                                      Condition
                                                           Report By
                         - 1997
 AH8825
         HISTORY
                                      MONUMENTED
 AH8825
 AH8825
                                        STATION DESCRIPTION
 AH8825
 AH8825'DESCRIBED BY FL DEPT OF ENV PRO 1997 (JLM)
 AH8825'THE MARK IS ABOUT 27.5 MI (44.3 KM) NORTHWEST OF OKEECHOBEE, 5.6 MI AH8825'(9.0 KM) SOUTHEAST OF LORIDA, 3.1 MI (5.0 KM) WEST OF THE KISSIMMEE AH8825'RIVER IN SECTION 25, TOWNSHIP 35 SOUTH, RANGE 31 EAST. TO REACH THE
 AH8825'MARK FROM THE POST OFFICE IN LORIDA, GO SOUTHEAST ON U.S. HIGHWAY 9 AH8825'FOR 3.4 MI (5.5 KM) TO THE JUNCTION OF COUNTY ROAD 621 ON THE RIGHT,
                                                                                HIGHWAY 98
 AH8825'CONTINUE SOUTHEAST ON U.S. HIGHWAY 98 FOR 2.3 MI (3.7 KM) TO THE
 AH8825'JUNCTION OF SANDHILL CRANE ROAD ON THE LEFT AND THE MARK ON THE LEFT, AH8825'SET IN THE TOP OF A ROUND CONCRETE MONUMENT, RECESSED 0.2 FT (6.1 CM)
 AH8825'BELOW THE LEVEL OF THE GROUND AND U.S. HIGHWAY 98. LOCATED 81.0 FT
 AH8825'(24.7 M) NORTHWEST OF THE APPROXIMATE CENTERLINE OF SANDHILL CRANE
 AH8825'ROAD (A DIRT ROAD LEADING NORTHEAST) , 50.0 FT (15.2 M) NORTHEAST OF
```

AH8825'THE CENTERLINE OF U.S. HIGHWAY 98, 3.9 FT (1.2 M) SOUTHEAST OF A AH8825'RIGHT-OF-WAY MARKER AND 1.0 FT (0.3 M) SOUTHWEST OF A CARSONITE AH8825'WITNESS POST AND BARBWIRE FENCE.

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

LKBC1B. ABS Windows Abstra Version 2.3 -- Jan 1, 2004 Fri Mar 03 09:38:42 2006

-*- FIELD ABSTRACT -*060228-060228 HGZ L26807 8.0 MM ORDER 2 CLASS 2 PAGE 1
SUTRON CORPORATION AND SOUTH FLORIDA WATER MANAGEMENT DISTRICT
HIGHLANDS AND OKEECHOBEE COUNTY MONITORING WELLS
ESTABLISH BENCH MARK NEAR MONITORING WELL LKBC1B

FROM TO	START	F/B	DIST TOTAL (KM)	ELEV DIFF (MT)			EAN DIFF FLD ELEV (MT)	C
0354 KR 1486							12. 77500	
0354 KR 1486 0355 E 463	2280830	F	1. 45	0. 18566	* 0	. 00	0. 18566	1
0000 L 400			1. 45		0	. 00	12. 96066	
0355 E 463	2281025		0. 82	-0. 10343	* 1 *	. 61	-0. 18262	1
0353 LKBC1B	2281135 SL 1 REJECTION AND E		0. 82 2. 27 2. CODES	0. 18181		. 61	12. 77804♀	1
ELEVATION	REJECTION AND E		CODES					

C - section elevation difference was rejected for cause ie. *43* record rejection code set to "F"

R - section elevation difference was rejected by Halperin rejection algorithm

@ - section elevation difference does not include refraction correction

- section elevation difference does not include rod correction

F INSTRUMENT CODE INSTRUMENT RODS

1 243 - 332854 396 - 333 396 - 444

EVEL LINE SECTION RUNNING TREE

0354 0355 (0353? FROM T0 N. LATITUDE W. LONGI TUDE FIELD DISTANCE VS. COMPUTED 0354 272357 0810946 0.00 0.00 0354 0355 272419 0811029 1.45 1.36 0355 0353 0. 70♀ 272432 0811008 0.82 Windows Abstra Version 2.3 -- Jan 1, 2004 -- Fri Mar 03 09:38:42 2006

SECTION FROM TO ERROR MESSAGES

LKBD1A	Elevation:	35.43 ft	(NAVD 88)	36.65 ft	(NGVD 29)	
Bench Mark 1:	Q 553	38.19 ft	(NAVD 88)	39.41 ft	(NGVD 29)	
Bench Mark 2:	KR 1744	41.03 ft	(NAVD 88)	42.25 ft	(NGVD 29)	
Monitoring Well:	LKBD1A	40.01 ft	(NAVD 88)	41.23 ft	(NGVD 29)	
Concrete Pad:	LKBD1A	36.05 ft	(NAVD 88)	37.27 ft	(NGVD 29)	
Ground Elevation:	LKBD1A	35.64 ft	(NAVD 88)	36.86 ft	(NGVD 29)	
Length of Run: 3.77 km		To Reach LKBD1A:				

Max Allowable Misclosure: 16 mm Actual Misclosure: 2 mm



FROM INTERSECTION OF US 98 HWY AND CR-721. GO SOUTH ON CR-721 FOR 1.2 MILE TO WHEELER ROAD. GO EAST ON WHEELER ROAD FOR 0.3 MILE TO MARK ON LEFT. MARK IS 5.8 FEET WEST OF WEST EDGE OF GREY PIPE OF MONITORING WELL LKBD1A, 52.4 FEET SOUTH OF SOUTH RAIL OF RAILROAD TRACKS, 22.2 FEET NORTH FROM CENTERLINE WHEELER ROAD. SET MAGNET 1 FOOT NORTH OF MONUMENT.

LKBD3A		Elevation:	33.52 ft	(NAVD 88)	34.71 ft	(NGVD 29)
Bench Mark 1:	Q 553		38.19 ft	(NAVD 88)	39.41 ft	(NGVD 29)
Bench Mark 2:	KR 17	'44	41.03 ft	(NAVD 88)	42.25 ft	(NGVD 29)
Monitoring Well:	LKBD	3A	38.22 ft	(NAVD 88)	39.42 ft	(NGVD 29)
Concrete Pad:	LKBD	3A	34.23 ft	(NAVD 88)	35.43 ft	(NGVD 29)
Ground Elevation: LKBD		3A	33.76 ft	(NAVD 88)	34.95 ft	(NGVD 29)
Length of Run: 3.77		km	To Reach LKBD3	A:		

Max Allowable Misclosure: 16 mm Actual Misclosure: 2 mm



FROM INTERSECTION OF US 98 HWY AND CR-721. GO SOUTH ON CR-721 FOR +/- 400 FEET TO KISSIMMEE RIVER SHORES ROAD. GO EAST ON KISSIMMEE RIVER SHORES ROAD FOR 0.15 MILE TO STATE PARK ENTRANCE (LOCKED GATE). GO THROUGH GATE FOR 30 FEET TO DIRT ROAD. GO EAST ON DIRT ROAD FOR 0.3 MILE TO MARK AT END OF DIRT ROAD. MARK IS 7.3 FEET WEST OF WEST EDGE OF GREY PIPE OF MONITORING WELL LKBD3A, 5.7 FEET SOUTHWEST OF NORTHWEST BALLARD POST, 5.4 FEET NORTHWEST OF SOUTHWEST BALLARD POST. SET MAGNET 1 FOOT NORTH OF MONUMENT.

Surveyor's Report Page 6



Nick Miller, Inc. Date of Photo: February 24, 2006 View: Looking at the well LKBD1A facing north



Nick Miller, Inc.
Date of Photo: February 24, 2006
View: Close-up of the well showing the contractor's markings





Nick Miller, Inc. Date of Photo: February 24, 2006 View: Top View of south edge concrete pad (Elevation on mark)



Nick Miller, Inc.
Date of Photo: February 24, 2006
View: Looking at the benchmark facing north



Nick Miller, Inc. Date of Photo: February 24, 2006 View: A top view of the benchmark DATASHEETS Page 1 of 2

The NGS Data Sheet

```
PROGRAM = datasheet95, VERSION = 8.8
       National Geodetic Survey, Retrieval Date = OCTOBER 26, 2015
DK8243 DESIGNATION - LKBD1A
             - DK8243
DK8243 PID
DK8243 STATE/COUNTY- FL/HIGHLANDS
DK8243 COUNTRY - US
DK8243 USGS QUAD - FORT BASINGER (1972)
DK8243
DK8243
                              *CURRENT SURVEY CONTROL
DK8243
DK8243* NAD 83(1986) POSITION- 27 20 32.
                                           (N) 081 02 57.
                                                               (W)
                                                                    SCALED
DK8243* NAVD 88 ORTHO HEIGHT - 10.797 (meters)
                                                       35.42 (feet) ADJUSTED
DK8243
DK8243 GEOID HEIGHT
                                -26.197 (meters)
                                                                    GEOID12B
DK8243 DYNAMIC HEIGHT -
                                 10.780 (meters)
                                                      35.37 (feet) COMP
DK8243 MODELED GRAVITY -
                           979,116.7 (mgal)
                                                                    NAVD 88
DK8243
DK8243 VERT ORDER
                     - SECOND
                                  CLASS I
DK8243
DK8243. The horizontal coordinates were scaled from a topographic map and have
DK8243.an estimated accuracy of \pm 6 seconds.
DK8243.
DK8243. The orthometric height was determined by differential leveling and
DK8243.adjusted by the NATIONAL GEODETIC SURVEY
DK8243.in May 2009.
DK8243
DK8243.No vertical observational check was made to the station.
DK8243
DK8243. Significant digits in the geoid height do not necessarily reflect accuracy.
DK8243.GEOID12B height accuracy estimate available <a href="here">here</a>.
DK8243. The dynamic height is computed by dividing the NAVD 88
DK8243.geopotential number by the normal gravity value computed on the
DK8243.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DK8243.degrees latitude (g = 980.6199 \text{ gals.}).
DK8243
DK8243. The modeled gravity was interpolated from observed gravity values.
                                                Units Estimated Accuracy
DK8243;
                          Nort.h
                                        East
                                                MT (+/-180 \text{ meters Scaled})
DK8243; SPC FL E - 333,320.
                                     195,140.
DK8243
                               SUPERSEDED SURVEY CONTROL
DK8243
DK8243
DK8243.No superseded survey control is available for this station.
DK8243 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML951243 (NAD 83)
DK8243
DK8243 MARKER: DD = SURVEY DISK
DK8243 SETTING: 15 = METAL ROD DRIVEN INTO GROUND. SEE TEXT FOR ADDITIONAL
DK8243+WITH SETTING: INFORMATION.
DK8243 STAMPING: LKBD1A 2006
DK8243 MARK LOGO: SFLWMD
DK8243 MAGNETIC: N = NO MAGNETIC MATERIAL
DK8243 STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
DK8243
DK8243 HISTORY - Date Condition
                                              Report By
```

DATASHEETS Page 2 of 2

DK8243 HISTORY - 20060224 MONUMENTED NICKMI

DK8243

DK8243 STATION DESCRIPTION

DK8243

DK8243'DESCRIBED BY NICK MILLER INCORPORATED 2006 (ECD)

DK8243'FROM INTERSECTION OF US 98 HWY AND CR-721. GO SOUTH ON CR-721 FOR 1.2 DK8243'MILE TO WHEELER ROAD. GO EAST ON WHEELER ROAD FOR 0.3 MILE TO MARK ON DK8243'LEFT.

DK8243'

DK8243'MARK IS 5.8 FT WEST OF WEST EDGE OF GREY PIPE OF MONITORING WELL DK8243'LKBD1A, 52.4 FT SOUTH OF SOUTH RAIL OF RAILROAD TRACKS, 22.2 FT NORTH DK8243'FROM CENTERLINE WHEELER ROAD. SET MAGNET 1 FT NORTH OF DK8243'MONUMENT.NOTE--ROD DEPTH UNKNOWN. NO NOTIFICATION FROM NICKMI AS FAR DK8243'AS ROD DEPTH.

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



Benchmarks Used: Q 553 & KR 1744

Notable Land marks:

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

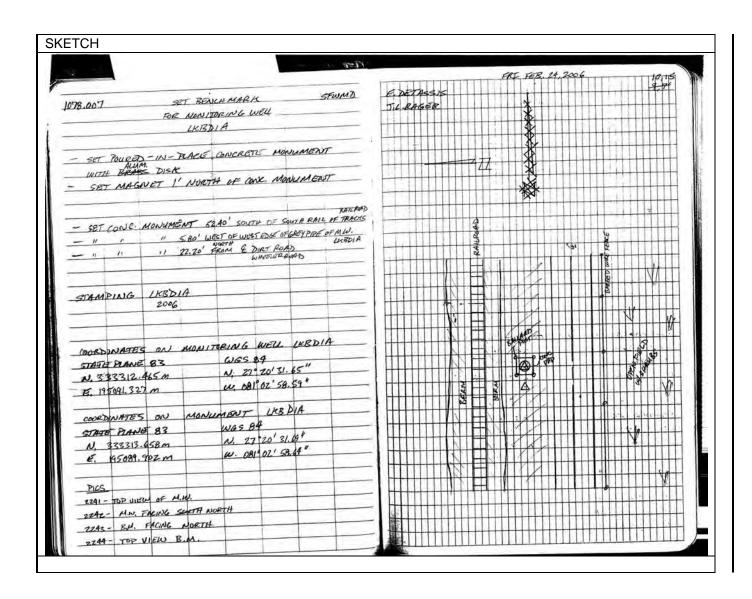
Rev. 4/01

				1107. 4701			
COUNTY HIGHLANDS	PROJECT Hy Kissimmee Riv		DESIGNATION LKBD	1A 2006			
SECTION 20	TOWNSHIP 3	6 SOUTH	RANGE 33 EAST				
GEOGRAPHIC INDEX OF QUAD							
Established by Nick Miller Inc.		NAME OF QUADRA	NGLE				
Recovered by		FORT BASINGER					
SURVEYOR Stephen M. Gordon DA	ATE <u>02/24/2006</u>	FIELD BOOK	10 PAGE	<u> 15</u>			
HORIZONTAL DATUM: 1927	983 Other_	(circle	one) ZONE(E) or \	ZONE(E) or W			
STATE PLANE COORDINATES		E 640,058 ft	N 1,093,	N 1,093,547 ft			
LATITUDE: N 27.34214°		LONGITUDE: W 81	.04962°				
VERTICAL DATUM: MSL 1929	1988 Other	(circle	e one) EL. 35 .	.43 ft			
VERTICAL DATUM: MSL 1929 1988 Other (circle one) EL. 36.65 ft							
CONTROL ACCURACY: HORIZO	NTAL 1 2 3	SUB-METER (cir	cle one) VERTICAL 1	2 3			
DESCRIPTION							
To Reach:							
FROM INTERSECTION OF US 98 HWY AND CR-721. GO SOUTH ON CR-721 FOR 1.2 MILES							
TO WHEELER ROAD. GO EAST							
MARK IS 5.8 FEET WEST OF W 52.4 FEET SOUTH OF SOUTH R				,			
CENTERLINE WHEELER ROAD		,		VI.			



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01



The NGS Data Sheet

```
DF8386 DESIGNATION - Q 553
DF8386 PID - DF8386
         STATE/COUNTY- FL/HIGHLANDS
DF8386
         USGS QUAD - FORT BASINGER (1972)
 DF8386
 DF8386
                                   *CURRENT SURVEY CONTROL
DF8386
DF8386
 DF8386* NAD 83(1986) - 27 20 08.
                                                 081 03 13.
                                                                  (W)
                                                                           SCALED
                                          (N)
 DF8386* NAVD 88
                                 11.641
                                                         38.19
                                          (meters)
                                                                  (feet)
                                                                           ADJUSTED
DF8386
DF8386
         GEOID HEIGHT-
                                  -26.17
                                           (meters)
                                                                           GEOID03
 DF8386
         DYNAMIC HT -
                                   11.623 (meters)
                                                          38.13
                                                                  (feet)
                                                                          COMP
         MODELED GRAV-
                             979,115.3
                                                                           NAVD 88
 DF8386
                                           (mgal)
 DF8386
         VERT ORDER - SECOND
                                     CLASS I
 DF8386
 DF8386
 DF8386. The horizontal coordinates were scaled from a topographic map and have
 DF8386.an estimated accuracy of +/- 6 seconds.
 DF8386
DF8386. The orthometric height was determined by differential leveling
 DF8386.and adjusted by the National Geodetic Survey in May 2004..
 DF8386
DF8386. The geoid height was determined by GEOID03.
 DF8386
DF8386. The dynamic height is computed by dividing the NAVD 88 DF8386. geopotential number by the normal gravity value computed on the DF8386. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 DF8386.degrees latitude (g = 980.6199 gals.).
 DF8386
DF8386. The modeled gravity was interpolated from observed gravity values.
 DF8386
                                                       Units Estimated Accuracy MT (+/- 180 meters Scaled)
 DF8386;
                                              East
                              North
 DF8386;SPC FL E
                           332,590.
                                           194,700.
DF8386
 DF8386
                                    SUPERSEDED SURVEY CONTROL
 DF8386
DF8386.No superseded survey control is available for this station.
 DF8386
DF8386_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML946236(NAD 83) DF8386_MARKER: DD = SURVEY DISK
 DF8386_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
DF8386_STAMPING: Q 553 2001
DF8386_MARK LOGO: FLDEP
 DF8386 PROJECTION: FLUSH
 DF8386_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
 DF8386_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 DF8386+STABILITY: SURFACE MOTION
 DF8386_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 DF8386+SATELLITE: SATELLITE OBSERVATIONS - May 19, 2005
 DF8386
 DF8386
         HISTORY
                       - Date
                                  Condition
                                                      Report By
        HISTORY
                      - 20010908 MONUMENTED
                                                      FLDEP
 DF8386
 DF8386
         HISTORY
                       - 20050519 GOOD
                                                      MACTEC
DF8386
                                    STATION DESCRIPTION
DF8386
 DF8386
DF8386'DESCRIBED BY FL DEPT OF ENV PRO 2001 (JLM)
 DF8386'THE MARK IS ABOUT 18.5 MI NORTHWEST OF OKEECHOBEE, 15.5 MI SOUTHEAST
DF8386'OF LORIDA, IN DF8386'SECTION 20, TOWNSHIP 36 SOUTH, RANGE 33 EAST.
 DF8386'
 DF8386'TO REACH THE MARK FROM THE POST OFFICE IN LORIDA, GO SOUTHEAST ON U.S.
 DF8386'HIGHWAY 98 FOR
DF8386'3.4 MI TO THE JUNCTION OF COUNTY ROAD 612 ON THE RIGHT, CONTINUE
 DF8386'SOUTHEAST ON U.S.
 DF8386'HIGHWAY 98 FOR 3.15 MI TO THE NORTH END OF THE BRIDGE OVER THE
```

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DF8386'ISTOKPOGA CANAL,
DF8386'CONTINUE SOUTHEAST ON U.S. HIGHWAY 98 FOR 7.25 MI TO THE JUNCTION OF
DF8386'COUNTY ROAD 721 ON
DF8386'THE RIGHT, TURN RIGHT ON COUNTY ROAD 721 AND GO SOUTH FOR 1.8 MI TO DF8386'THE MARK ON THE
DF8386'LEFT, SET IN THE TOP OF A ROUND CONCRETE MONUMENT FLUSH WITH THE
DF8386'GROUND AND ABOUT 1.5
DF8386'FT BELOW THE LEVEL OF COUNTY ROAD 721.
DF8386'
DF8386'LOCATED 50.4 FT EAST OF THE CENTERLINE OF COUNTY ROAD 721, 49.6 FT
DF8386'NORTH OF THE
DF8386'APPROXIMATE CENTERLINE OF A DIM TRACK ROAD LEADING EAST, 34.0 FT
DF8386'NORTHEAST OF THE
DF8386'NORTH END OF A CULVERT UNDER THE DIM TRACK ROAD AND 1.0 FT WEST OF A
DF8386'CARSONITE WITNESS
DF8386'POST IN A BARBED WIRE FENCE LINE.
DF8386'
DF8386'NOTE A MAGNET WAS IMBEDDED IN THE GROUND ON THE SOUTH SIDE OF THE
DF8386'MONUMENT.
DF8386'
DF8386'
DF8386
DF8386'
DF8386'
DF8386'
DF8386'
DF8386'
DF8386'
DF8386
DF8386'
DF8386'
DF8386
                                  STATION RECOVERY (2005)
DF8386
DF8386
DF8386'RECOVERY NOTE BY MACTEC ENGINEERING AND CONSULTING 2005 (CBG)
DF8386'RECOVERED AS DESCRIBED
*** retrieval complete.
Elapsed Time = 00:00:00
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The NGS Data Sheet

```
*******
AH9317 DESIGNATION - KR 1744
AH9317 PID - AH9317
AH9317 STATE/COUNTY- FL/HIGHLANDS
AH9317 USGS QUAD - FORT BASINGER (1972)
 AH9317
                                        *CURRENT SURVEY CONTROL
 AH9317
 AH9317
AH9317* NAD 83(1999) - 27 20 51.26632(N)
AH9317* NAVD 88 - 12.505 (meter
AH9317
                                                      081 03 14.82132(W)
                                                                                    ADJUSTED
                                     12.505 (meters)
                                                                 41.03 (feet) ADJUSTED
                                881,582.415 (meters)
                                                                                     COMP
 AH9317 X
                         - -5,600,322.330 (meters)
- 2,912,471.714 (meters)
AH9317 Y
AH9317 Z
                                                                                     COMP
                                                                                     COMP
                                   -2.25 (seconds)
 AH9317 LAPLACE CORR-
                                                                                     DEFLEC99
AH9317 ELLIP HEIGHT-
AH9317 GEOID HEIGHT-
AH9317 DYNAMIC HT -
                                      -13.68
                                      -13.68 (meters)
-26.18 (meters)
                                                                     (05/31/01) GPS OBS
                                                                                     GEOID03
                                      12.486 (meters)
                                                                40.96 (feet) COMP
 AH9317 MODELED GRAV-
                               979,117.2 (mgal)
                                                                                    NAVD 88
 AH9317
AH9317 HORZ ORDER - FIRST
AH9317 VERT ORDER - SECOND
AH9317 ELLP ORDER - FOURTH
                                         CLASS I
                                         CLASS I
 AH9317
 AH9317. The horizontal coordinates were established by GPS observations
 AH9317.and adjusted by the National Geodetic Survey in May 2001..
 AH9317
 AH9317. The orthometric height was determined by differential leveling
 AH9317.and adjusted by the National Geodetic Survey in May 2004..
 AH9317
 AH9317. The X, Y, and Z were computed from the position and the ellipsoidal ht.
 AH9317
 AH9317. The Laplace correction was computed from DEFLEC99 derived deflections.
 AH9317
 AH9317. The ellipsoidal height was determined by GPS observations
 AH9317.and is referenced to NAD 83.
 AH9317
 AH9317. The geoid height was determined by GEOID03.
 AH9317
AH9317. The dynamic height is computed by dividing the NAVD 88 AH9317. geopotential number by the normal gravity value computed on the AH9317. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AH9317.degrees latitude (g = 980.6199 \text{ gals.}).
 AH9317
 AH9317. The modeled gravity was interpolated from observed gravity values.
 AH9317
 AH9317;
                                  North
                                                    East
                                                               Units Scale Factor Converg.
                         - 333,916.321 194,645.547 MT 0.99994153 -0 01 29.5

- 1,095,523.80 638,599.60 sFT 0.99994153 -0 01 29.5

- 3,024,934.372 494,647.374 MT 0.99960035 -0 01 29.5
 AH9317;SPC FL E
 AH9317; SPC FL E
                                                                                       -0 01 29.5
 AH9317;UTM 17
 AH9317
 AH9317!
                         - Elev Factor x Scale Factor = Combined Factor

- 1.00000215 x 0.99994153 = 0.99994368

- 1.00000215 x 0.99960035 = 0.99960250
AH9317:SPC FL E
 AH9317!UTM 17
 AH9317
AH9317: Primary Azimuth Mark
AH9317:SPC FL E - KR 1746
AH9317:UTM 17 - KR 1746
                                                                                 Grid Az
                                                                                 000 43 26.5
                                                                                 000 43 26.5
 AH9317
 AH9317
                                                                Distance Geod. Az
dddmmss.s
 AH9317
         PID Reference Object
 AH9317
                                                            APPROX. 1.6 KM 0004157.0
 AH9317
          AH9316 KR 1746
 AH9317
 AH9317
 AH9317
                                         SUPERSEDED SURVEY CONTROL
 AH9317
```

```
NAD 83(1990) - 27 20 51.26537(N)
                                                 081 03 14.82072(W) AD(
       ELLIP H (06/01/99) -13.66
AH9317
                                          (m)
                                                                        GP (
AH9317
AH9317.Superseded values are not recommended for survey control.
AH9317.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AH9317. See file dsdata.txt to determine how the superseded data were derived.
AH9317
AH9317_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML9464724934(NAD 83)
AH9317_MARKER: DD = SURVEY DISK
AH9317_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AH9317_STAMPING: KR-1744 1997
AH9317_MARK LOGO: USE
AH9317 PROJECTION: FLUSH
AH9317_MAGNETIC: N = NO MAGNETIC MATERIAL
AH9317_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AH9317+STABILITY: SURFACE MOTION
AH9317_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AH9317+SATELLITE: SATELLITE OBSERVATIONS - May 08, 2003
AH9317
AH9317
        HISTORY
                      - Date
                                   Condition
AH9317
        HISTORY
                      - 1997
                                   MONUMENTED
                                                       USE
       HISTORY
                      - 20011006 GOOD
AH9317
                                                       FLDEP
AH9317
                      - 20030508 GOOD
        HISTORY
                                                       BAH
AH9317
                      - 20050627 GOOD
        HISTORY
                                                      MACTEC
AH9317
AH9317
                                    STATION DESCRIPTION
AH9317
AH9317'DESCRIBED BY US ENGINEERS 1997 AH9317'THE STATION IS ABOUT 15.1 MI (24.3~{\rm KM}) NORTHWEST OF OKEECHOBEE, 14.2
AH9317'MI (22.9 KM) SOUTHEAST OF LORIDA, 1.1 MI (1.8 KM) WEST OF THE
AH9317'KISSIMMEE RIVER CANAL C-38, IN SECTION 18, TOWNSHIP 36 SOUTH, RANGE 33 AH9317'EAST. TO REACH THE STATION FROM THE POST OFFICE IN LORIDA, GO
AH9317'SOUTHEAST ON U.S.HIGHWAY 98 FOR 13.45 MI (21.65 KM) TO JUNCTION OF
AH9317 COUNTY ROAD 721 AT FORT BASINGER, THEN TURN RIGHT AND PROCEED SOUTH ON AH9317 COUNTY ROAD 721 FOR 1.0 MI (1.6 KM) TO THE STATION ON THE RIGHT, SET AH9317 IN THE TOP OF A ROUND CONCRETE MONUMENT FLUSH WITH THE GROUND. LOCATED
AH9317'0.2 MI (0.3 KM) NORTH OF A RAILROAD CROSSING, 18.4 FT (5.6 M) WEST OF
AH9317'THE CENTERLINE OF COUNTY ROAD 721, 32.7 FT (10.0 M) EAST OF A BARBWIRE AH9317'R/W FENCE, 10.0 FT (3.0 M) SOUTHEAST OF A RAILROAD CROSSING SIGNPOST,
AH9317'32.2 FEET (9.8 M) EAST OF A N.G.S.CARSONITE WITNESS POST.
AH9317
AH9317
                                     STATION RECOVERY (2001)
AH9317
AH9317'RECOVERY NOTE BY FL DEPT OF ENV PRO 2001 (JLM)
AH9317'THE MARK IS ABOUT 19.3 MI NORTHWEST OF OKEECHOBEE, 14.7 MI SOUTHEAST
AH9317'OF LORIDA, IN
AH9317'SECTION 18, TOWNSHIP 36 SOUTH, RANGE 33 EAST.
AH9317'
AH9317'TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY 441 (PARROTT
AH9317'STREET) AND U.S.
AH9317'HIGHWAY 98 (STATE HIGHWAY 70, PARK STREET) IN OKEECHOBEE, GO WEST ON
AH9317'U.S. HIGHWAY 98
AH9317'(STATE HIGHWAY 70, PARK STREET) FOR 1.15 MI TO THE JUNCTION OF U.S.
AH9317'HIGHWAY 98 NORTH ON
AH9317'THE RIGHT, TURN RIGHT ON U.S. HIGHWAY 98 AND GO NORTHWESTERLY FOR 0.65
AH9317'MI TO THE
AH9317'RAILROAD TRACKS, CONTINUE NORTHWESTERLY ON U.S. HIGHWAY 98 FOR 11.9 MI
AH9317'TO THE JUNCTION
AH9317'OF COUNTY ROAD 68 EAST ON THE RIGHT, CONTINUE NORTHWESTERLY ON U.S.
AH9317'HIGHWAY 98 FOR
AH9317'1.85 MI TO THE JUNCTION OF NORTHWEST 176TH AVENUE (COUNTY ROAD 700-A)
AH9317'ON THE RIGHT,
AH9317'CONTINUE NORTHWESTERLY ON U.S. HIGHWAY 98 FOR 3.55 MI TO THE NORTHWEST
AH9317'END OF BRIDGE
AH9317'NUMBER 090016 OVER KISSIMMEE RIVER, CONTINUE SOUTHWESTERLY FOR 0.3 MI AH9317'TO THE JUNCTION
AH9317'OF COUNTY ROAD 721 ON THE LEFT, TURN LEFT ON COUNTY ROAD 721 AND GO
AH9317'SOUTH FOR 1.0 MI TO
AH9317'THE MARK ON THE RIGHT, SET IN THE TOP OF A ROUND CONCRETE MONUMENT
AH9317'FLUSH WITH THE
AH9317'GROUND AND ABOUT LEVEL WITH U.S. HIGHWAY 98. THE MARK CAN ALSO BE
AH9317'REACHED FROM THE
AH9317'POST OFFICE IN LORIDA, GO SOUTHEAST ON U.S. HIGHWAY 98 FOR 3.4 MI TO
AH9317'THE JUNCTION OF
AH9317'COUNTY ROAD 612 ON THE RIGHT, CONTINUE SOUTHEAST ON U.S. HIGHWAY 98 AH9317'FOR 3.15 MI TO THE
AH9317'NORTH END OF THE BRIDGE OVER THE ISTOKPOGA CANAL, CONTINUE SOUTHEAST
AH9317'ON U.S. HIGHWAY
AH9317'98 FOR 7.25 MI TO THE JUNCTION OF COUNTY ROAD 721 ON THE RIGHT, TURN
AH9317'RIGHT ON COUNTY
AH9317'ROAD 721 AND GO SOUTH FOR 1.0 MI TO THE MARK ON THE RIGHT, SET IN THE
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AH9317'TOP OF A ROUND
AH9317'CONCRETE MONUMENT FLUSH WITH THE GROUND AND ABOUT LEVEL WITH U.S.
AH9317'HIGHWAY 98.
AH9317'
AH9317'LOCATED 32.7 FT EAST OF A BARBWIRE FENCELINE, 32.2 FT EAST OF A
AH9317'CARSONITE WITNESS POST AND
AH9317'18.4 FT WEST OF THE CENTERLINE OF COUNTY ROAD 721.
AH9317'
AH9317'
AH9317
                                STATION RECOVERY (2003)
AH9317
AH9317
AH9317'RECOVERY NOTE BY BERRYMAN & HENIGAR 2003 (KAW)
AH9317'RECOVERED IN GOOD CONDITION.
AH9317
AH9317
                                 STATION RECOVERY (2005)
AH9317
AH9317'RECOVERY NOTE BY MACTEC ENGINEERING AND CONSULTING 2005 (CBG)
AH9317'RECOVERED AS DESCRIBED
*** retrieval complete.
Elapsed Time = 00:00:00
```

DATASHEETS Page 1 of 4

The NGS Data Sheet

```
PROGRAM = datasheet95, VERSION = 8.8
1 National Geodetic Survey, Retrieval Date = OCTOBER 27, 2015
AH9316 DESIGNATION - KR 1746
AH9316 PID - AH9316
AH9316 STATE/COUNTY- FL/HIGHLANDS
AH9316 COUNTRY - US
AH9316 USGS QUAD - FORT BASINGER (1972)
AH9316
AH9316
                             *CURRENT SURVEY CONTROL
AH9316
AH9316* NAD 83(2011) POSITION- 27 21 43.69727(N) 081 03 14.10337(W) ADJUSTED
AH9316* NAD 83(2011) ELLIP HT- -13.802 (meters) (06/27/12) ADJUSTED
AH9316* NAD 83(2011) EPOCH - 2010.00
AH9316* NAVD 88 ORTHO HEIGHT - 12.286 (meters) 40.31 (feet) ADJUSTED
AH9316
AH9316 NAD 83(2011) X - 881,486.575 (meters)
                                                                  COMP
AH9316 NAD 83(2011) Y - -5,599,586.616 (meters)
                                                                 COMP
AH9316 NAD 83(2011) Z - 2,913,905.033 (meters)
                                                                 COMP
AH9316 LAPLACE CORR - -1.98 (seconds)
AH9316 GEOID HEIGHT - -26.200 (meters)
AH9316 DYNAMIC HEIGHT - 12.267 (meters)
AH9316 MODELED GRAVITY - 979,119.9 (mgal)
                                                                 DEFLEC12B
                                                                 GEOID12B
                                                   40.25 (feet) COMP
                                                                 NAVD 88
AH9316
AH9316 VERT ORDER - SECOND CLASS I
AH9316
AH9316 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AH9316 Standards:
AH9316 FGDC (95% conf, cm) Standard deviation (cm) CorrNE AH9316 Horiz Ellip SD_N SD_E SD_h (unitless)
AH9316 -----
AH9316 NETWORK 1.27 1.76 0.54 0.50 0.90 0.11383358
AH9316 -----
AH9316 Click here for local accuracies and other accuracy information.
AH9316
AH9316
AH9316. The horizontal coordinates were established by GPS observations
AH9316.and adjusted by the National Geodetic Survey in June 2012.
AH9316.NAD 83(2011) refers to NAD 83 coordinates where the reference
AH9316.frame has been affixed to the stable North American tectonic plate. See
AH9316.NA2011 for more information.
AH9316
AH9316. The horizontal coordinates are valid at the epoch date displayed above
AH9316.which is a decimal equivalence of Year/Month/Day.
AH9316. The orthometric height was determined by differential leveling and
AH9316.adjusted by the NATIONAL GEODETIC SURVEY
AH9316.in May 2009.
AH9316
AH9316.No vertical observational check was made to the station.
AH9316. Significant digits in the geoid height do not necessarily reflect accuracy.
AH9316.GEOID12B height accuracy estimate available here.
AH9316. The X, Y, and Z were computed from the position and the ellipsoidal ht.
AH9316
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```
AH9316. The Laplace correction was computed from DEFLEC12B derived deflections.
AH9316. The ellipsoidal height was determined by GPS observations
AH9316.and is referenced to NAD 83.
AH9316
AH9316. The dynamic height is computed by dividing the NAVD 88
AH9316.geopotential number by the normal gravity value computed on the
AH9316. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AH9316.degrees latitude (g = 980.6199 \text{ gals.}).
AH9316
AH9316. The modeled gravity was interpolated from observed gravity values.
AH9316
AH9316. The following values were computed from the NAD 83(2011) position.
AH9316
                              North East Units Scale Factor Converg.
AH9316;
AH9316; SPC FL E - 335,530.059 194,665.977 MT 0.99994153 -0 01 29.2

AH9316; SPC FL E - 1,100,818.20 638,666.63 sFT 0.99994153 -0 01 29.2

AH9316; UTM 17 - 3,026,547.559 494,667.797 MT 0.99960035 -0 01 29.2
AH9316
AH9316! - Elev Factor x Scale Factor = Combined Factor
AH9316!SPC FL E - 1.00000217 x 0.99994153 = 0.99994370
AH9316!UTM 17 - 1.00000217 x 0.99960035 = 0.99960252
AH9316
AH9316:
AH9316: Primary
AH9316:SPC FL E - KR 1744
AH9316:UTM 17 - KR 1744
                          Primary Azimuth Mark
                                                                            Grid Az
                                                                            180 43 26.7
                                                                            180 43 26.7
AH9316|-----|
AH9316| PID Reference Object Distance Geod. Az | aH9316| AH9316|
                                                 APPROX. 1.6 KM 1804157.5 |
AH9316| AH9317 KR 1744
AH9316|-----
AH9316
AH9316
                                    SUPERSEDED SURVEY CONTROL
AH9316
AH9316 NAD 83(2007) - 27 21 43.69755(N)

AH9316 ELLIP H (02/10/07) -13.792 (m)

AH9316 NAD 83(1999) - 27 21 43.69713(N)

AH9316 ELLIP H (05/31/01) -13.784 (m)

AH9316 NAD 83(1990) - 27 21 43.69618(N)

AH9316 ELLIP H (06/01/99) -13.765 (m)

O81 03 14.10441(W) AD(2002.00)

O81 03 14.10441(W) AD( ) 1

O81 03 14.10414(W) AD( ) 1

O81 03 14.10414(W) AD( ) 1
AH9316 NAVD 88 (05/18/04) 12.396 (m) 40.67 (f) SUPERSEDED 2 1
AH9316 NAVD 88 (06/01/99) 12.4 (m) GEOID96 model used GPS OBS
AH9316
AH9316.Superseded values are not recommended for survey control.
AH9316.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AH9316. See file dsdata.txt to determine how the superseded data were derived.
AH9316 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML9466726547 (NAD 83)
AH9316
AH9316 MARKER: DD = SURVEY DISK
AH9316 SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AH9316 STAMPING: KR 1746 1997
AH9316 MARK LOGO: USE
AH9316 PROJECTION: FLUSH
AH9316 MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
AH9316 STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AH9316+STABILITY: SURFACE MOTION
AH9316 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AH9316+SATELLITE: SATELLITE OBSERVATIONS - March 01, 2006
AH9316
AH9316 HISTORY - Date Condition
AH9316 HISTORY - 1997 MONUMENTED
AH9316 HISTORY - 20011006 GOOD
AH9316 HISTORY - 20030508 GOOD
                                                        Report By
                                                        USE
                                                       FLDEP
                                                        BAH
```

Page 3 of 4

DATASHEETS AH9316 HISTORY - 20050627 GOOD AH9316 HISTORY - 20060301 GOOD AH9316 HISTORY - 20090318 GOOD MACTEC NICKMI MOREKI AH9316 AH9316 STATION DESCRIPTION AH9316 AH9316'DESCRIBED BY US ENGINEERS 1997 AH9316'THE STATION IS ABOUT 15.6 MI (25.1 KM) NORTHWEST OF OKEECHOBEE, 13.7 AH9316'MI (22.0 KM) SOUTHEAST OF LORIDA, 0.15 MI (0.24 KM) SOUTHWEST OF THE AH9316'KISSIMMEE RIVER CANAL C-38, IN SECTION 08, TOWNSHIP 36 SOUTH, RANGE 33 AH9316'EAST. TO REACH THE STATION FROM THE POST OFFICE IN LORIDA, GO AH9316'SOUTHEAST ON U.S.HIGHWAY 98 FOR 13.45 MI (21.65 KM) TO JUNCTION OF AH9316'COUNTY ROAD 721 AT FORT BASINGER AND THE STATION IN THE SOUTHEAST AH9316'QUADRANT OF THE INTERSECTION, SET IN THE TOP OF A ROUND CONCRETE AH9316'MONUMENT FLUSH WITH THE GROUND. LOCATED 74 FT (22.6 M) SOUTHEAST OF AH9316'THE APPROXIMATE CENTERLINE OF THE INTERSECTION, 18.4 FT (5.6 M) EAST AH9316'OF THE CENTERLINE OF COUNTY ROAD 721, 50.8 FT (15.5 M) SOUTHWEST OF A AH9316'R/W FENCE CORNER POST, 37.7 FT (11.5 M) SOUTHWEST OF A 4-INCH SQUARE AH9316'CONCRETE R/W MARKER POST, 44.0 FT (13.4 M) SOUTHEAST OF THE SOUTHEAST AH9316'END OF AN L-SHAPE CONCRETE CULVERT HEADWALL, NO WITNESS POST. AH9316'RECOVERABLE WITH MAGNETIC LOCATOR, MAGNETIC SOURCE ADJACENT TO STATION AH9316'IS UNKNOWN. AH9316 AH9316 STATION RECOVERY (2001) AH9316 AH9316'RECOVERY NOTE BY FL DEPT OF ENV PRO 2001 (JLM) AH9316'THE MARK IS ABOUT 19.3 MI NORTHWEST OF OKEECHOBEE, 13.7 MI SOUTHEAST AH9316'OF LORIDA, IN AH9316'SECTION 5, TOWNSHIP 36 SOUTH, RANGE 33 EAST. AH9316' AH9316'TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY 441 (PARROTT AH9316'STREET) AND U.S. AH9316'HIGHWAY 98 (STATE HIGHWAY 70, PARK STREET) IN OKEECHOBEE, GO WEST ON AH9316'U.S. HIGHWAY 98 AH9316'(STATE HIGHWAY 70, PARK STREET) FOR 1.15 MI TO THE JUNCTION OF U.S. AH9316'HIGHWAY 98 NORTH ON AH9316'THE RIGHT, TURN RIGHT ON U.S. HIGHWAY 98 AND GO NORTHWESTERLY FOR 0.65 AH9316'MI TO THE AH9316'RAILROAD TRACKS, CONTINUE NORTHWESTERLY ON U.S. HIGHWAY 98 FOR 11.9 MI AH9316'TO THE JUNCTION AH9316'OF COUNTY ROAD 68 EAST ON THE RIGHT, CONTINUE NORTHWESTERLY ON U.S. AH9316'HIGHWAY 98 FOR AH9316'1.85 MI TO THE JUNCTION OF NORTHWEST 176TH AVENUE (COUNTY ROAD 700-A) AH9316'ON THE RIGHT, AH9316'CONTINUE NORTHWESTERLY ON U.S. HIGHWAY 98 FOR 3.55 MI TO THE NORTHWEST AH9316'END OF BRIDGE AH9316'NUMBER 090016 OVER KISSIMMEE RIVER, CONTINUE SOUTHWESTERLY FOR 0.3 MI AH9316'TO THE JUNCTION AH9316'OF COUNTY ROAD 721 ON THE LEFT AND THE MARK ON THE LEFT, SET IN THE AH9316'TOP OF A ROUND AH9316'CONCRETE MONUMENT FLUSH WITH THE GROUND AND ABOUT LEVEL WITH U.S. AH9316'HIGHWAY 98. THE AH9316'MARK CAN ALSO BE REACHED FROM THE POST OFFICE IN LORIDA, GO SOUTHEAST AH9316'ON U.S. HIGHWAY AH9316'98 FOR 3.4 MI TO THE JUNCTION OF COUNTY ROAD 612 ON THE RIGHT, AH9316'CONTINUE SOUTHEAST ON U.S. AH9316'HIGHWAY 98 FOR 3.15 MI TO THE NORTH END OF THE BRIDGE OVER THE AH9316'ISTOKPOGA CANAL, AH9316'CONTINUE SOUTHEAST ON U.S. HIGHWAY 98 FOR 7.25 MI TO THE JUNCTION OF AH9316'COUNTY ROAD 721 ON AH9316'THE RIGHT AND THE MARK ON THE RIGHT, SET IN THE TOP OF A ROUND

AH9316'

AH9316'LOCATED 81.0 FT SOUTH OF THE CENTERLINE OF U.S. HIGHWAY 98, 74.0 FT AH9316'SOUTHEAST OF THE

AH9316'FLUSH WITH THE GROUND AND ABOUT LEVEL WITH U.S. HIGHWAY 98.

AH9316'CONCRETE MONUMENT

DATASHEETS Page 4 of 4

AH9316'APPROXIMATE CENTERLINE OF THE INTERSECTION, 50.8 FOR SOUTHEAST OF A AH9316'RIGHT-OF-WAY AH9316'MARKER, 37.7 FT SOUTHWEST OF A RIGHT-OF-WAY MARKER, 32.7 FT WEST OF A AH9316'CARSONITE WITNESS AH9316'POST IN THE FENCE LINE AND 18.4 FT EAST OF THE CENTERLINE OF COUNTY AH9316'ROAD 721. AH9316' AH9316'NOTE A MAGNET WAS IMBEDDED IN THE GROUND ON THE SOUTH SIDE OF THE AH9316'MONUMENT. AH9316' AH9316' AH9316 AH9316 STATION RECOVERY (2003) AH9316 AH9316'RECOVERY NOTE BY BERRYMAN & HENIGAR 2003 (KAW) AH9316'RECOVERED IN GOOD CONDITION. AH9316 STATION RECOVERY (2005) AH9316 AH9316'RECOVERY NOTE BY MACTEC ENGINEERING AND CONSULTING 2005 (CBG) AH9316'RECOVERED AS DESCRIBED AH9316 AH9316 STATION RECOVERY (2006) AH9316 AH9316'RECOVERY NOTE BY NICK MILLER INCORPORATED 2006 (ECD) AH9316'RECOVERED AS DESCRIBED. NOTE--ACCORDING TO NEW-MINUS-OLD THERE IS AH9316'LARGE MOVEMENT ON THIS MARK. AH9316 STATION RECOVERY (2009) AH9316 AH9316 AH9316'RECOVERY NOTE BY MORGAN AND EKLUND INC 2009 (PCV) AH9316'RECOVERED AS DESCRIBED *** retrieval complete. Elapsed Time = 00:00:02

LKBD1A. ABS Windows Abstra Version 2.3 -- Jan 1, 2004 Tue Mar 07 10:40:48 2006

SUTRON CORPORATION AND SOUTH FLORI DA WATER MANAGEMENT DISTRICT

PAGE 1

HIGHLANDS AND OKEECHOBEE COUNTY MONITORING WELLS ESTABLISH BENCH MARK NEAR MONITORING WELL LKBD1A

FROM TO		START		DIST TOTAL (KM)	ELEV DIFF (MT)		-(F+B) TOTAL (MM)	MEAN DIFF FLD ELEV (MT)	C
0363 Q 553								11. 64100	
0363 Q 553 0352 KR 1744		3010855	В	1. 30	-0. 86630	*	0.00	0. 86630	1
0332 KK 1744				1. 30			0.00	12. 50730	
0352 KR 1744 0350 LKBD1A		3011010 3011115		0. 90 0. 89	-1. 71046 1. 70718	* *	3. 28	-1. 70882	1
0330 ERBDIA		SL 1	Ь	2. 19	1. 70716		3. 28	10. 79848	'
0352 KR 1744 0351 KR 1746		2281335 3011305		1. 61 1. 61	-0. 21738 0. 22129	* *	-3. 91	-0. 21934	1
0331 KK 1740		3011303	Ь	2. 91	0. 22129		-3. 91	12. 28796	'
0351 KR 1746 0362 LKBD3A		3011435 3011535		0. 86 0. 86	-2. 07169 2. 07105	* *	0. 64	-2. 07137	1
	DE JECTI			3. 77	2.07103		-3. 27	10. 2165 9 ♀	'
FI FVATI ON	REJE(:H		- KK()K	CODES					

ELEVATION REJECTION AND ERROR CODES

ie. *43* record rejection code set to "F"

R - section elevation difference was rejected by Halperin rejection algorithm

@ - section elevation difference does not include refraction correction

INSTRUMENT CODE INSTRUMENT RODS

1 243 - 332854 396 - 333 396 - 444

LEVEL LINE SECTION RUNNING TREE

0352 (0350) 0351 0362♀ FROM T0 N. LATITUDE W. LONGI TUDE FIELD DISTANCE VS. COMPUTED 272008 0810313 0.00 0.00 0363 0363 0352 272051 0810314 1.30 1.32 0352 0350 272031 0810258 0.89 0.76 0352 0351 272143 0810314 1.61 1.60

0351 0362 272031 0810258 0.86 2.26 Windows Abstra Version 2.3 -- Jan 1, 2004 -- Tue Mar 07 10:40:48 2006

SECTION FROM TO

2

0363

M TO ERROR MESSAGES

0351 0362 *** Computed distance exceeds field distance by more than 0.35 KM!

C - section elevation difference was rejected for cause

 ^{* -} section elevation difference does not include rod correction



Nick Miller, Inc.

Date of Photo: February 23, 2006 View: Looking at the well LKBD3A facing east



Nick Miller, Inc.

Date of Photo: February 23, 2006 View: Close-up of the well showing the contractor's markings





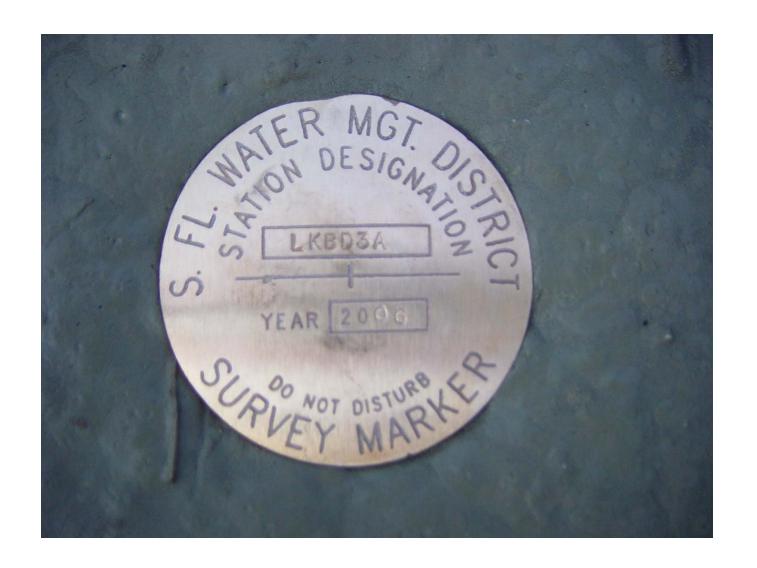
Nick Miller, Inc.
Date of Photo: February 23, 2006
View: Top View of west edge concrete pad (Elevation on mark)



Nick Miller, Inc.

Date of Photo: February 23, 2006 View: Looking at the benchmark facing east

LKBD3A



Nick Miller, Inc. Date of Photo: February 23, 2006 View: A top view of the benchmark DATASHEETS Page 1 of 2

The NGS Data Sheet

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

```
PROGRAM = datasheet95, VERSION = 8.8
       National Geodetic Survey, Retrieval Date = OCTOBER 27, 2015
DK8244 DESIGNATION - LKBD3A
DK8244 PID
             - DK8244
DK8244 STATE/COUNTY- FL/HIGHLANDS
DK8244 COUNTRY - US
DK8244 USGS QUAD - FORT BASINGER (1972)
DK8244
DK8244
                              *CURRENT SURVEY CONTROL
DK8244
DK8244* NAD 83(1986) POSITION- 27 21 35.
                                           (N) 081 02 57.
                                                                    SCALED
DK8244* NAVD 88 ORTHO HEIGHT -
                                10.215 (meters)
                                                      33.51 (feet) ADJUSTED
DK8244
DK8244 GEOID HEIGHT
                                -26.207 (meters)
                                                                   GEOID12B
DK8244 DYNAMIC HEIGHT -
                                10.199 (meters)
                                                      33.46 (feet) COMP
DK8244 MODELED GRAVITY -
                           979,119.8 (mgal)
                                                                   NAVD 88
DK8244
DK8244 VERT ORDER
                    - SECOND
                                  CLASS I
DK8244
DK8244. The horizontal coordinates were scaled from a topographic map and have
DK8244.an estimated accuracy of \pm 6 seconds.
DK8244. The orthometric height was determined by differential leveling and
DK8244.adjusted by the NATIONAL GEODETIC SURVEY
DK8244.in May 2009.
DK8244
DK8244.No vertical observational check was made to the station.
DK8244
DK8244. Significant digits in the geoid height do not necessarily reflect accuracy.
DK8244.GEOID12B height accuracy estimate available here.
DK8244. The dynamic height is computed by dividing the NAVD 88
DK8244.geopotential number by the normal gravity value computed on the
DK8244.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DK8244.degrees latitude (g = 980.6199 \text{ gals.}).
DK8244
DK8244. The modeled gravity was interpolated from observed gravity values.
                                               Units Estimated Accuracy
DK8244;
                          Nort.h
                                        East
                                                MT (+/-180 \text{ meters Scaled})
DK8244; SPC FL E - 335, 260.
                                     195,140.
DK8244
                               SUPERSEDED SURVEY CONTROL
DK8244
DK8244
DK8244.No superseded survey control is available for this station.
DK8244 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML951262(NAD 83)
DK8244
DK8244 MARKER: DD = SURVEY DISK
DK8244 SETTING: 15 = METAL ROD DRIVEN INTO GROUND. SEE TEXT FOR ADDITIONAL
DK8244+WITH SETTING: INFORMATION.
DK8244 STAMPING: LKBD3A
DK8244 MARK LOGO: SFLWMD
DK8244 MAGNETIC: N = NO MAGNETIC MATERIAL
DK8244 STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
DK8244
DK8244 HISTORY - Date Condition
                                              Report By
```

DATASHEETS Page 2 of 2

DK8244 HISTORY - 20060224 MONUMENTED NICKMI DK8244 DK8244 STATION DESCRIPTION

DK8244

DK8244'DESCRIBED BY NICK MILLER INCORPORATED 2006 (ECD)

DK8244'FROM INTERSECTION OF US 98 HWY AND CR-721. GO SOUTH ON CR-721 FOR +/-DK8244'400 FT TO KISSIMEE RIVER SHORES ROAD. GO EAST ON KISSIMEE RIVER

DK8244'SHORES ROAD FOR 0.15 MILE TO STATE PARK ENTRANCE (LOCKED GATE). GO

DK8244'THROUGH GATE FOR 30 FT TO DIRT ROAD. GO EAST ON DIRT ROAD FOR 0.3

DK8244'MILE TO MARK AT END OF DIRT ROAD.

DK8244'

DK8244'7.3 FT WEST OF WEST EDGE OF GREY PIPE OF MONITORING WELL LKBD3A, 5.7 DK8244'FT SOUTHWEST OF NORTHWEST BALLARD POST, 5.4 FT NORTHWEST OF SOUTHWEST DK8244'BALLARD POST. SET MAGNET 1' OF MONUMENT. NOTE--ROD DEPTH UNKNOWN. NO DK8244'NOTIFICATION FROM NICKMI AS FAR AS ROD DEPTH.

*** retrieval complete. Elapsed Time = 00:00:04



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

				Rev. 4/01	
COUNTY HIGHLANDS	PROJECT Hy Kissimmee Riv	drology – er Wells	DESIGNATION	N LKBD3A 2006	
SECTION 08	TOWNSHIP 3	6 SOUTH	RANGE 33 E	AST	
GEOGRAPHIC INDEX OF QUAD					
Established by Nick Miller Inc. Recovered by		NAME OF QUADRANGLE FORT BASINGER			
SURVEYOR Stephen M. Gordon DA	ATE <u>02/23/2006</u>	FIELD BOOK	09	PAGE74	
HORIZONTAL DATUM: 1927	(circ	le one) ZONE	E or W		
STATE PLANE COORDINATES		E 641,367 f	t	N 1,100,407 ft	
LATITUDE: N 27.36101°		LONGITUDE: W 8	1.04560°		
VERTICAL DATUM: MSL 1929	1988 Other	(circ	le one)	EL. 33.52 ft	
VERTICAL DATUM: MSL 1929	1988 Other	(circ	le one)	EL. 34.71 ft	
CONTROL ACCURACY: HORIZO	CONTROL ACCURACY: HORIZONTAL 1 2 3 SUB-METER (circle one) VERTICAL 1 2 3				
	DESC	CRIPTION			
To Reach:					
FROM INTERSECTION OF US 9	8 HWY AND C	R-721. GO SOUTH	H ON CR-721 F	OR +/- 400	

FROM INTERSECTION OF US 98 HWY AND CR-721. GO SOUTH ON CR-721 FOR +/- 400 FEET TO KISSIMMEE RIVER SHORES ROAD. GO EAST ON KISSIMMEE RIVER SHORES ROAD FOR 0.15 MILE TO STATE PARK ENTRANCE (LOCKED GATE). GO THROUGH GATE FOR 30 FEET TO DIRT ROAD. GO EAST ON DIRT ROAD FOR 0.3 MILE TO MARK AT END OF DIRT ROAD. MARK IS 7.3 FEET WEST OF WEST EDGE OF GREY PIPE OF MONITORING WELL LKBD3A, 5.7 FEET SOUTHWEST OF NORTHWEST BALLARD POST, 5.4 FEET NORTHWEST OF SOUTHWEST BALLARD POST. SET MAGNET 1 FOOT NORTH OF MONUMENT.

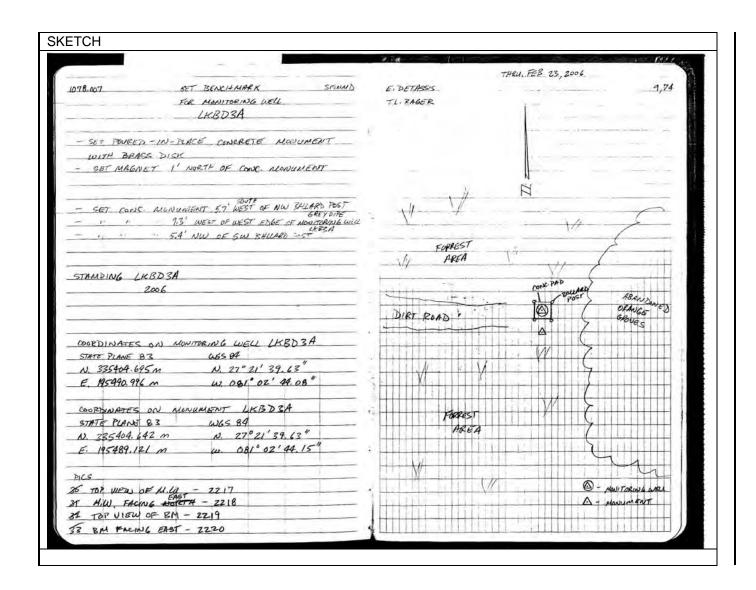
Benchmarks Used: Q 553 & KR 1744

Notable Land marks:



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01



LKBD3C	Elevation:	31.70 ft	(NAVD88)	32.91 ft	(NGVD29)	
Bench Mark 1:	U 554	41.08 ft	(NAVD88)	42.28 ft	(NGVD 29)	
Bench Mark 2:	V 554	39.97 ft	(NAVD88)	41.17 ft	(NGVD 29)	
Monitoring Well:	LKBD3C	36.32 ft	(NAVD88)	37.52 ft	(NGVD 29)	
Concrete Pad:	LKBD3C	32.38 ft	(NAVD88)	33.59 ft	(NGVD 29)	
Ground Elevation:	LKBD3C	31.89 ft	(NAVD88)	33.10 ft	(NGVD 29)	
Length of Run:	1.67 km	To Reach LKB	To Reach LKBD3C:			

Max Allowable Misclosure: 10 mm Actual Misclosure: 0 mm



FROM INTERSECTION OF US 98 HWY AND NW 203 AVE. GO WEST ON US 98 HWY GO +/-375 FEET TO DIRT DRIVEWAY FOR RESIDENTIAL HOUSE # 20375. GO SOUTHERLY THEN WESTERLY ON DIRT DRIVEWAY FOR 0.15 MILE TO METAL GATE (NO LOCK ON GATE). GO THROUGH GATE HEAD WESTERLY THEN SOUTHEASTERLY FOR 0.2 MILE TO BARBED WIRE GATE (NO LOCK ON GATE). GO THROUGH BARBED WIRE GATE FOR +/-300 FEET SOUTHEASTERLY TO MONITORING WELL LKBD3C. MARK IS 6.3 FEET EAST FROM EAST EDGE OF GRAY MONITORING WELL PIPE, 5.0 FEET SOUTHEAST OF NORTHEAST BALLARD POST, 5.0 FEET NORTHEAST OF SOUTHEAST BALLARD POST. SET MAGNET 1 FOOT NORTH OF CONCRETE MONUMENT.

LKBD5C	Elevation:	40.44 ft	(NAVD 88)	41.64 ft	(NGVD 29)
Bench Mark 1:	B 555	48.63 ft	(NAVD 88)	49.83 ft	(NGVD 29)
Bench Mark 2:	KR PC 20	48.95 ft	(NAVD 88)	50.15 ft	(NGVD 29)
Monitoring Well:	LKBD5C	44.80 ft	(NAVD 88)	46.00 ft	(NGVD 29)
Concrete Pad:	LKBD5C	41.04 ft	(NAVD 88)	42.24 ft	(NGVD 29)
Ground Elevation:	LKBD5C	40.54 ft	(NAVD 88)	41.74 ft	(NGVD 29)
Length of Run:	3.30 km	To Reach LKBD5	C:		

Max Allowable Misclosure: 15 mm Actual Misclosure: 1 mm



FROM INTERSECTION OF US 98 HWY AND NW 203 AVE. GO NORTH ON NW 203 AVE. FOR 0.2 MILE TO NW 160TH DRIVE. GO WEST ON NW 160TH DRIVE FOR 4.9 MILE TO PAVED ROAD WITH SFWMD LOCKED GATE. GO THROUGH LOCKED GATE DOWN PAVED ROAD FOR 1.0 MILE TO MARK ON LEFT. (THERE ARE THREE UNLOCKED GATES TO GO THROUGH BEFORE MARK) SET MONUMENT 7.2 FEET SOUTH OF BARBED WIRE FENCE, 6.45 FEET NORTH OF NORTH EDGE OF GRAY MONITORING WELL PIPE, 20.5 FEET EAST OF CENTERLINE OF PAVED ROAD. SET MAGNET 1 FOOT NORTH OF CONCRETE MONUMENT.

Surveyor's Report Page 7



Nick Miller, Inc. Date of Photo: February 23, 2006 View: Looking at the well LKBD3C facing north



Nick Miller, Inc. Date of Photo: February 23, 2006

View: Close-up of the well showing the contractor's markings





Nick Miller, Inc. Date of Photo: February 23, 2006 View: Top view of concrete pad (Elevation on mark 2.0' west of well)



Nick Miller, Inc. Date of Photo: February 23, 2006 View: Looking at the benchmark facing north



Nick Miller, Inc. Date of Photo: February 23, 2006 View: A top view of the benchmark DATASHEETS Page 1 of 2

The NGS Data Sheet

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

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PROGRAM = datasheet95, VERSION = 8.8
1 National Geodetic Survey, Retrieval Date = OCTOBER 27, 2015
DK8245 DESIGNATION - LKBD3C
DK8245 PID - DK8245
DK8245 STATE/COUNTY- FL/OKEECHOBEE
DK8245 COUNTRY - US
DK8245 USGS QUAD - BASINGER (1972)
DK8245
DK8245
                              *CURRENT SURVEY CONTROL
DK8245
DK8245* NAD 83(1986) POSITION- 27 23 11. (N) 081 02 05. (W)
DK8245* NAVD 88 ORTHO HEIGHT - 9.663 (meters) 31.70 (feet) ADJUSTED
DK8245
DK8245 GEOID HEIGHT -
                               -26.237 (meters)
                                                                  GEOID12B
DK8245 DYNAMIC HEIGHT -
                                 9.648 (meters)
                                                    31.65 (feet) COMP
DK8245 DYNAMIC HEIGHT - 9.648 (meter DK8245 MODELED GRAVITY - 979,126.3 (mgal)
                                                                  NAVD 88
DK8245
DK8245 VERT ORDER - SECOND
                                 CLASS I
DK8245
DK8245. The horizontal coordinates were scaled from a topographic map and have
DK8245.an estimated accuracy of \pm 6 seconds.
DK8245. The orthometric height was determined by differential leveling and
DK8245.adjusted by the NATIONAL GEODETIC SURVEY
DK8245.in May 2009.
DK8245
DK8245.No vertical observational check was made to the station.
DK8245
DK8245. Significant digits in the geoid height do not necessarily reflect accuracy.
DK8245.GEOID12B height accuracy estimate available here.
DK8245. The dynamic height is computed by dividing the NAVD 88
DK8245.geopotential number by the normal gravity value computed on the
DK8245.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DK8245.degrees latitude (g = 980.6199 \text{ gals.}).
DK8245
DK8245. The modeled gravity was interpolated from observed gravity values.
DK8245;
                                               Units Estimated Accuracy
                          North
                                       East
DK8245; SPC FL E - 338,220.
                                              MT (+/-180 \text{ meters Scaled})
                                    196,570.
DK8245
                               SUPERSEDED SURVEY CONTROL
DK8245
DK8245
DK8245.No superseded survey control is available for this station.
DK8245 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML965292 (NAD 83)
DK8245
DK8245 MARKER: DD = SURVEY DISK
DK8245 SETTING: 15 = METAL ROD DRIVEN INTO GROUND. SEE TEXT FOR ADDITIONAL
DK8245+WITH SETTING: INFORMATION.
DK8245 STAMPING: LKBD3C
DK8245 MARK LOGO: SFLWMD
DK8245 MAGNETIC: N = NO MAGNETIC MATERIAL
DK8245 STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
DK8245
DK8245 HISTORY - Date Condition
                                             Report By
```

DATASHEETS Page 2 of 2

DK8245 HISTORY - 20060223 MONUMENTED NICKMI DK8245 DK8245 STATION DESCRIPTION DK8245 DK8245'DESCRIBED BY NICK MILLER INCORPORATED 2006 (ECD) DK8245'FROM INTERSECTION OF US 98 HWY AND NW 203 AVE. GO WEST ON US 98 HWY GO DK8245'+/-375 FT TO DIRT DRIVEWAY FOR RESIDENTIAL HOUSE NUMBER 20375. GO DK8245'SOUTHERLY THEN WESTERLY ON DIRT DRIVEWAY FOR 0.15 MILE TO METAL GATE DK8245'(NO LOCK ON GATE). GO THROUGH GATE HEAD WESTERLY THEN SOUTHEASTERLY DK8245'FOR 0.2 MILE TO BARBED WIRE GATE (NO LOCK ON GATE). GO THROUGH BARBED DK8245'WIRE GATE FOR +/-300 FT SOUTHEASTERLY TO MONITORING WELL LKBD3C. DK8245' DK8245'6.3 FT EAST FROM EAST EDGE OF GRAY MONITORING WELL PIPE, 5.0 FT DK8245'SOUTHEAST OF NORTHEAST BALLARD POST, 5.0 FT NORTHEAST OF SOUTHEAST DK8245'BALLARD POST. SET MAGNET 1 FT NORTH OF CONCRETE MONUMENT. NOTE--ROD

DK8245'DEPTH UNKNOWN. NO NOTIFICATION FROM NICKMI AS FAR AS ROD DEPTH.

*** retrieval complete. Elapsed Time = 00:00:04



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

				Rev. 4/01	
COUNTY OKEECHOBEE	ITY OKEECHOBEE PROJECT Hy Kissimmee Riv		DESIGNATION	LKBD3C 2006	
SECTION 33	TOWNSHIP 3	5 SOUTH	RANGE 33 EA	ST	
GEOGRAPHIC INDEX OF QUAD					
Established by Nick Miller Inc. Recovered by		NAME OF QUADRANGLE BASINGER			
SURVEYOR Stephen M. Gordon DA	FIELD BOOK 09 PAGE _ 72				
HORIZONTAL DATUM: 1927 (1	983 Other_	(circle one) ZONE E or W			
STATE PLANE COORDINATES		E 644,784 ft	:	N 1,109,586 ft	
LATITUDE: N 27.38626°		LONGITUDE: W 81	.03508°		
VERTICAL DATUM: MSL 1929	1988 Other	(circle	e one)	EL. 31.70 ft	
VERTICAL DATUM: MSL 1929	1988 Other	(circle	e one)	EL. 32.91 ft	
CONTROL ACCURACY: HORIZONTAL 1 2 3 SUB-METER (circle one) VERTICAL 1 2 3					
	DESC	RIPTION			
To Reach:					

FROM INTERSECTION OF US 98 HWY AND NW 203 AVE. GO WEST ON US 98 HWY GO +/-375 FEET TO DIRT DRIVEWAY FOR RESIDENTIAL HOUSE #20375. GO SOUTHERLY THEN WESTERLY ON DIRT DRIVEWAY FOR 0.15 MILE TO METAL GATE (NO LOCK ON GATE). GO THROUGH GATE AND HEAD WESTERLY THEN SOUTHEASTERLY FOR 0.2 MILE TO BARBED WIRE GATE (NO LOCK ON GATE). GO THROUGH BARBED WIRE GATE FOR +/-300 FEET SOUTHEASTERLY TO MONITORING WELL LKBD3C. MARK IS 6.3 FEET EAST FROM EAST EDGE OF GRAY MONITORING WELL PIPE, 5.0 FEET SOUTHEAST OF NORTHEAST BALLARD POST, 5.0 FEET NORTHEAST OF SOUTHEAST BALLARD POST. SET MAGNET 1 FOOT NORTH OF CONCRETE MONUMENT.

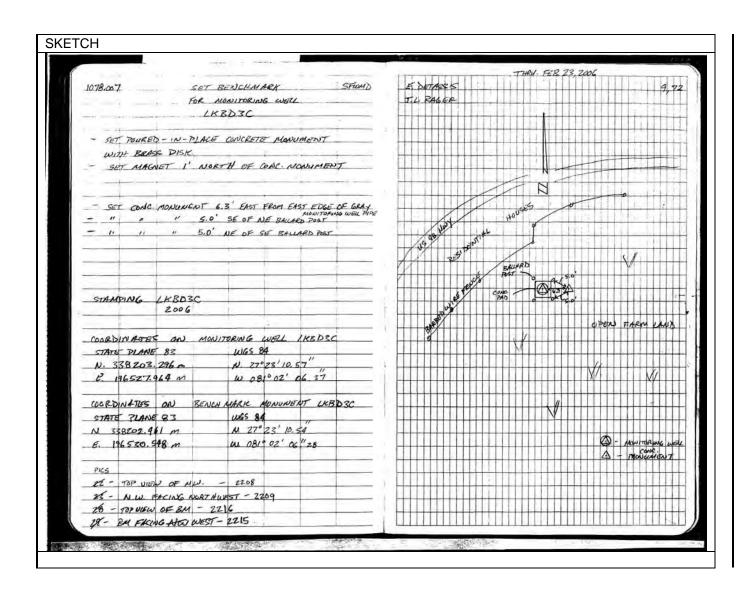
Benchmarks Used: U 554 & V 554

Notable Land marks:



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01



The NGS Data Sheet

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

```
DF8349 DESIGNATION - U 554
 DF8349
         PID
                         DF8349
         STATE/COUNTY- FL/OKEECHOBEE
 DF8349
         USGS QUAD - BASINGER (1972)
 DF8349
 DF8349
                                   *CURRENT SURVEY CONTROL
 DF8349
DF8349
DF8349* NAD 83(1986) - 27 23 20.
- 12.521
                                          (N)
                                                 081 01 29.
                                                                  (W)
                                                                           SCALED
                                          (meters)
                                                         41.08
                                                                  (feet)
                                                                          ADJUSTED
 DF8349
 DF8349
         GEOID HEIGHT-
                                  -26.25
                                           (meters)
                                                                          GEOID03
         DYNAMIC HT -
 DF8349
                                   12.502 (meters)
                                                          41.02
                                                                  (feet)
                                                                          COMP
                             979,127.6
 DF8349
         MODELED GRAV-
                                                                          NAVD 88
                                           (mgal)
 DF8349
 DF8349
                                    CLASS I
         VERT ORDER - SECOND
 DF8349
 DF8349. The horizontal coordinates were scaled from a topographic map and have
 DF8349.an estimated accuracy of +/- 6 seconds.
 DF8349
 DF8349. The orthometric height was determined by differential leveling
 DF8349.and adjusted by the National Geodetic Survey in May 2004..
 DF8349
 DF8349. The geoid height was determined by GEOID03.
 DF8349
DF8349. The dynamic height is computed by dividing the NAVD 88 DF8349. geopotential number by the normal gravity value computed on the DF8349. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 DF8349.degrees latitude (g = 980.6199 gals.).
 DF8349
 DF8349. The modeled gravity was interpolated from observed gravity values.
 DF8349
                                                       Units Estimated Accuracy MT (+/- 180 meters Scaled)
 DF8349;
                                              East
                              North
 DF8349;SPC FL E
                                           197,560.
                           338,490.
 DF8349
 DF8349
                                    SUPERSEDED SURVEY CONTROL
 DF8349
 DF8349.No superseded survey control is available for this station.
 DF8349
 DF8349_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML975295(NAD 83)
DF8349_MARKER: DD = SURVEY DISK
 DF8349_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 DF8349_STAMPING: U 554 2001
DF8349_MARK LOGO: FLDEP
 DF8349 PROJECTION: FLUSH
 DF8349_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
 DF8349_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 DF8349+STABILITY: SURFACE MOTION
 DF8349_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 DF8349+SATELLITE: SATELLITE OBSERVATIONS - October 04, 2001
 DF8349
 DF8349
         HISTORY
                       - Date
                                   Condition
                                                     Report By
                      - 20011004 MONUMENTED
        HISTORY
 DF8349
 DF8349
 DF8349
                                    STATION DESCRIPTION
 DF8349
 DF8349'DESCRIBED BY FL DEPT OF ENV PRO 2001 (JLM)
 DF8349'THE MARK IS ABOUT 33.6 MI SOUTHEAST OF SEBRING, 15.8 MI NORTHWEST OF
 DF8349'OKEECHOBEE, ON U.S.
 DF8349'HIGHWAY 98, IN SECTION 34, TOWNSHIP 35 SOUTH, RANGE 33 EAST.
 DF8349'
 DF8349'TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY 441 (PARROTT
 DF8349'STREET) AND U.S.
DF8349'HIGHWAY 98 (STATE HIGHWAY 70, PARK STREET) IN OKEECHOBEE, GO WEST ON
 DF8349'U.S. HIGHWAY 98
 DF8349'(STATE HIGHWAY 70, PARK STREET) FOR 1.15 MI TO THE JUNCTION OF U.S.
 DF8349'HIGHWAY 98 NORTH ON
```

Elapsed Time = 00:00:00

```
DF8349'THE RIGHT, TURN RIGHT ON U.S. HIGHWAY 98 AND GO NORTHWESTERLY FOR 0.65
DF8349'MI TO THE
DF8349'RAILROAD TRACKS, CONTINUE NORTHWESTERLY ON U.S. HIGHWAY 98 FOR 11.9 MI
DF8349'TO THE JUNCTION
DF8349'OF COUNTY ROAD 68 EAST ON THE RIGHT, CONTINUE NORTHWESTERLY ON U.S.
DF8349'HIGHWAY 98 FOR
DF8349'1.85 MI TO THE JUNCTION OF NORTHWEST 176TH AVENUE (COUNTY ROAD 700-A)
DF8349'ON THE RIGHT, DF8349'CONTINUE 1.0 MI TO THE MARK ON THE RIGHT, SET IN THE TOP OF A ROUND
DF8349'CONCRETE MONUMENT
DF8349'FLUSH WITH THE GROUND AND ABOUT 2.0 FT BELOW THE LEVEL OF U.S. HIGHWAY
DF8349'98.
DF8349'
DF8349'LOCATED 85.5 FT WEST OF A POWER POLE, 59.6 FT NORTH OF THE CENTERLINE DF8349'OF U.S. HIGHWAY 98, DF8349'19.3 FT EAST OF A BARBWIRE FENCE, 7.4 FT WEST OF A METAL DOT WITNESS
DF8349'POST, 1.5 FT SOUTH OF A
DF8349'BARBWIRE FENCE AND 1.3 FT SOUTH OF A CARSONITE WITNESS POST.
DF8349'
DF8349'NOTE A MAGNET WAS IMBEDDED IN THE GROUND ON THE SOUTH SIDE OF THE
DF8349'MONUMENT.
DF8349'
DF8349'
DF8349
DF8349'
DF8349'
DF8349'
*** retrieval complete.
```

The NGS Data Sheet

See file <u>dsdata.txt</u> for more information about the datasheet.

```
STATE/COUNTY- FL/OKEECHOBEE
DF8350
         USGS QUAD - BASINGER (1972)
 DF8350
 DF8350
                                  *CURRENT SURVEY CONTROL
DF8350
DF8350
DF8350* NAD 83(1986) - 27 23 18.
                                       (N)
                                               081 02 11.
                                                                (W)
                                                                         SCALED
 DF8350* NAVD 88
                                12.182
                                                       39.97
                                        (meters)
                                                                (feet)
                                                                        ADJUSTED
DF8350
DF8350
         GEOID HEIGHT-
                                 -26.23
                                         (meters)
                                                                        GEOID03
 DF8350
         DYNAMIC HT -
                                  12.164 (meters)
                                                        39.91
                                                                (feet)
                                                                        COMP
                            979,126.5
DF8350
         MODELED GRAV-
                                                                        NAVD 88
                                         (mgal)
 DF8350
 DF8350
         VERT ORDER - SECOND
                                   CLASS I
DF8350
 DF8350. The horizontal coordinates were scaled from a topographic map and have
 DF8350.an estimated accuracy of +/- 6 seconds.
 DF8350
DF8350. The orthometric height was determined by differential leveling
 DF8350.and adjusted by the National Geodetic Survey in May 2004..
 DF8350
DF8350. The geoid height was determined by GEOID03.
 DF8350
DF8350. The dynamic height is computed by dividing the NAVD 88 DF8350. geopotential number by the normal gravity value computed on the DF8350. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 DF8350.degrees latitude (g = 980.6199 gals.).
 DF8350
DF8350. The modeled gravity was interpolated from observed gravity values.
 DF8350
                                                     Units Estimated Accuracy MT (+/- 180 meters Scaled)
 DF8350;
                                             East
                             North
 DF8350;SPC FL E
                          338,430.
                                         196,400.
DF8350
DF8350
                                   SUPERSEDED SURVEY CONTROL
 DF8350
DF8350.No superseded survey control is available for this station.
DF8350
 DF8350 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML964294(NAD 83)
 DF8350_MARKER: DD = SURVEY DISK
 DF8350 SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
 DF8350_STAMPING: V 554 2001
 DF8350_MARK LOGO: NGS
DF8350 PROJECTION: FLUSH
 DF8350_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
DF8350_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL DF8350_SATELLITE: THE SITE LOCATION WAS REPORTED AS NOT SUITABLE FOR
 DF8350+SATELLITE: SATELLITE OBSERVATIONS - October 04, 2001
 DF8350_ROD/PIPE-DEPTH: 24.3 meters
DF8350
 DF8350
        HISTORY
                     - Date
                                  Condition
                                                    Report By
        HISTORY
                      - 20011004 MONUMENTED
                                                    FLDEP
 DF8350
 DF8350
         HISTORY
                      - 20050721 GOOD
                                                    MACTEC
DF8350
                                   STATION DESCRIPTION
DF8350
 DF8350
DF8350'DESCRIBED BY FL DEPT OF ENV PRO 2001 (JLM)
 DF8350'THE MARK IS ABOUT 17.5 MI NORTHWEST OF OKEECHOBEE, 15.8 MI SOUTHEAST
 DF8350'OF LORIDA, 2.0 MI
 DF8350'NORTHEAST OF KISSIMMEE RIVER, ON U.S. HIGHWAY 98 AT THE JUNCTION OF
 DF8350'NORTHWEST 203RD
 DF8350'AVENUE, IN SECTION 33, TOWNSHIP 35 SOUTH, RANGE 33 EAST.
 DF8350'
DF8350'TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY 441 (PARROTT
 DF8350'STREET) AND U.S.
 DF8350'HIGHWAY 98 (STATE HIGHWAY 70, PARK STREET) IN OKEECHOBEE, GO WEST ON
```

```
DF8350'U.S. HIGHWAY 98
DF8350'(STATE HIGHWAY 70, PARK STREET) FOR 1.15 MI TO THE JUNCTION OF U.S.
DF8350'HIGHWAY 98 NORTH ON
DF8350'THE RIGHT, TURN RIGHT ON U.S. HIGHWAY 98 AND GO NORTHWESTERLY FOR 0.65
DF8350'MI TO THE
DF8350'RAILROAD TRACKS, CONTINUE NORTHWESTERLY ON U.S. HIGHWAY 98 FOR 11.9 MI
DF8350'TO THE JUNCTION
DF8350'OF COUNTY ROAD 68 EAST ON THE RIGHT, CONTINUE NORTHWESTERLY ON U.S.
DF8350'HIGHWAY 98 FOR
DF8350'1.85 MI TO THE JUNCTION OF NORTHWEST 176TH AVENUE (COUNTY ROAD 700-A)
DF8350'ON THE RIGHT,
DF8350'CONTINUE NORTHWESTERLY ON U.S. HIGHWAY 98 FOR 1.7 MI TO THE JUNCTION
DF8350'OF NORTHWEST
DF8350'203RD AVENUE ON THE RIGHT AND THE MARK ON THE RIGHT, A STAINLESS STEEL
DF8350'ROD DRIVEN TO
DF8350'REFUSAL AT A DEPTH OF 79.6 FT WITH A NGS LOGO CAP FLUSH WITH THE
DF8350'GROUND AND 2.0 FT
DF8350'BELOW THE LEVEL OF U.S. HIGHWAY 98, THE DATUM POINT IS RECESSED 0.5 FT
DF8350'BELOW THE LEVEL OF
DF8350'THE LOGO CAP.
DF8350'
DF8350'LOCATED 56.5 FT NORTHWEST OF THE APPROXIMATE CENTERLINE OF U.S.
DF8350'HIGHWAY 98, 50.0 FT
DF8350'NORTHEAST OF THE CENTERLINE OF NW 203RD AVENUE, 8.7 FT NORTHEAST OF
DF8350'POWER POLE
DF8350'NUMBER 5349 (ABC 5311 1 CK T2) AND 1.3 FT SOUTHEAST OF A CARSONITE
DF8350'WITNESS POST.
DF8350'
DF8350'NOTE A MAGNET WAS IMBEDDED IN THE GROUND ON THE SOUTH SIDE OF THE
DF8350'MONUMENT.
DF8350'
DF8350'NOTE ACCESS TO THE DATUM POINT IS HAD THROUGH A 5-INCH NGS LOGO CAP.
DF8350'
DF8350'
DF8350'
DF8350'
DF8350'
DF8350
DF8350
DF8350
                                STATION RECOVERY (2005)
DF8350
DF8350'RECOVERY NOTE BY MACTEC ENGINEERING AND CONSULTING 2005 (CBG)
DF8350'RECOVERED AS DESCRIBED
*** retrieval complete.
```

Elapsed Time = 00:00:00

LKBD3C. ABS Windows Abstra Version 2.3 -- Jan 1, 2004 Tue Feb 28 15: 27: 49 2006

-*- FIELD ABSTRACT -*060227-060227 HGZ L26807 8.0 MM ORDER 2 CLASS 2 PAGE 1
SUTRON CORPORATION AND SOUTH FLORIDA WATER MANAGEMENT DISTRICT
HIGHLANDS AND OKEECHOBEE COUNTY MONITORING WELLS
ESTABLISH BENCH MARK NEAR MONITORING WELL LKBD3C

FROM TO	START F/	'B DIST TOTAL (KM)	ELEV DIFF (MT)	-(F+B) TOTAL (MM)	MEAN DIFF FLD ELEV (MT)	C
0332 U 554					12. 52100	
0332 U 554 0333 V 554	2271000 F	1. 13	-0. 33866 *	0.00	-0. 33866	1
0333 V 334		1. 13		0.00	12. 18234	
0333 V 554 0331 LKBD3C	2271145 F 2271305 B	0. 53 0. 57	-2. 51972 * 2. 51879 *	0. 93	-2. 51925	- 1
ELEVATION REJECT	SL 1	1. 67	2. 31079	0. 93	9. 66309♀	1
LLLVAII ON INLUCI	I ON AND LINN	CON CODES				

C - section elevation difference was rejected for cause

ie. *43* record rejection code set to "F"

R - section elevation difference was rejected by Halperin rejection algorithm

e - section elevation difference does not include refraction correction

section elevation difference does not include rod correction

F INSTRUMENT CODE INSTRUMENT RODS

1 243 - 331132 396 - 111 396 - 222

LEVEL LINE SECTION RUNNING TREE

0332 0333 (03319 FROM T0 N. LATITUDE W. LONGI TUDE FIELD DISTANCE VS. COMPUTED 0332 272320 0810129 0.00 0.00 0332 0333 272318 0810211 1.13 1.16 0333 0331 272310 0810206 0.53 0. 28♀ Windows Abstra Version 2.3 -- Jan 1, 2004 -- Tue Feb 28 15:27:49 2006

SECTION FROM TO ERROR MESSAGES



Nick Miller, Inc. Date of Photo: February 23, 2006 View: Looking at the well LKBD5C facing east



Nick Miller, Inc. Date of Photo: February 23, 2006

View: Close-up of the well showing the contractor's markings





Nick Miller, Inc. Date of Photo: February 23, 2006 View: Top view of concrete pad (Elevation on mark 2.0' west of well)



Nick Miller, Inc. Date of Photo: February 23, 2006 View: Looking at the benchmark facing east



Nick Miller, Inc. Date of Photo: February 23, 2006 View: A top view of the benchmark DATASHEETS Page 1 of 2

The NGS Data Sheet

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

```
PROGRAM = datasheet95, VERSION = 8.8
1 National Geodetic Survey, Retrieval Date = OCTOBER 27, 2015
DK8247 DESIGNATION - LKBD5C
DK8247 PID - DK8247
DK8247 STATE/COUNTY- FL/OKEECHOBEE
DK8247 COUNTRY - US
DK8247 USGS QUAD - BASINGER (1972)
DK8247
DK8247
                              *CURRENT SURVEY CONTROL
DK8247
DK8247* NAD 83(1986) POSITION- 27 24 40. (N) 081 06 31. (W)
DK8247* NAVD 88 ORTHO HEIGHT - 12.326 (meters) 40.44 (feet) ADJUSTED
DK8247
DK8247 GEOID HEIGHT -
                                -26.138 (meters)
                                                                   GEOID12B
                                12.307 (meters)
DK8247 DYNAMIC HEIGHT -
                                                     40.38 (feet) COMP
DK8247 DYNAMIC HEIGHT - 12.307 (meter DK8247 MODELED GRAVITY - 979,126.1 (mgal)
                                                                    NAVD 88
DK8247
DK8247 VERT ORDER - SECOND
                                  CLASS I
DK8247
DK8247. The horizontal coordinates were scaled from a topographic map and have
DK8247.an estimated accuracy of \pm 6 seconds.
DK8247. The orthometric height was determined by differential leveling and
DK8247.adjusted by the NATIONAL GEODETIC SURVEY
DK8247.in May 2009.
DK8247
DK8247.No vertical observational check was made to the station.
DK8247
DK8247. Significant digits in the geoid height do not necessarily reflect accuracy.
DK8247.GEOID12B height accuracy estimate available <a href="here">here</a>.
DK8247. The dynamic height is computed by dividing the NAVD 88
DK8247.geopotential number by the normal gravity value computed on the
DK8247. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DK8247.degrees latitude (g = 980.6199 \text{ gals.}).
DK8247
DK8247. The modeled gravity was interpolated from observed gravity values.
                                                Units Estimated Accuracy
DK8247;
                          North
                                       East
DK8247; SPC FL E - 340,960.
                                     189,260.
                                               MT (+/-180 \text{ meters Scaled})
DK8247
                               SUPERSEDED SURVEY CONTROL
DK8247
DK8247
DK8247.No superseded survey control is available for this station.
DK8247 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML892319 (NAD 83)
DK8247
DK8247 MARKER: DD = SURVEY DISK
DK8247 SETTING: 15 = METAL ROD DRIVEN INTO GROUND. SEE TEXT FOR ADDITIONAL
DK8247+WITH SETTING: INFORMATION.
DK8247 STAMPING: LKBD5C 2006
DK8247 MARK LOGO: SFLWMD
DK8247 MAGNETIC: O = OTHER; SEE DESCRIPTION
DK8247 STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
DK8247 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DK8247+SATELLITE: SATELLITE OBSERVATIONS - November 20, 2012
```

DATASHEETS Page 2 of 2

DK8247 DK8247 HISTORY - Date Condition
DK8247 HISTORY - 20060223 MONUMENTED
DK8247 HISTORY - 20121120 GOOD Report By NICKMI INDIV DK8247 DK8247 STATION DESCRIPTION DK8247 DK8247'DESCRIBED BY NICK MILLER INCORPORATED 2006 (ECD) DK8247'FROM INTERSECTION OF US 98 HWY AND NW 203 AVE. GO NORTH ON NW 203 AVE. DK8247'FOR 0.2 MILE TO NW 160TH DRIVE. GO WEST ON NW 160TH DRIVE FOR 4.9 DK8247'MILE TO PAVED ROAD WITH SFWMD LOCKED GATE. GO THROUGH LOCKED GATE DK8247'DOWN PAVED ROAD FOR 1.0 MILE TO MARK ON LEFT. (THERE ARE THREE DK8247'UNLOCKED GATES TO GO THROUGH BEFORE MARK). DK8247' DK8247'7.2 FT SOUTH OF BARBED WIRE FENCE, 6.45 FT NORTH OF NORTH EDGE OF DK8247'GRAY MONITORING WELL PIPE, 20.5 FT EAST OF CENTERLINE OF PAVED ROAD. DK8247'SET MAGNET 1 FT NORTH OF CONCRETE MONUMENT. NOTE--ROD DEPTH UNKNOWN. DK8247'NO NOTIFICATION FROM NICKMI AS FAR AS ROD DEPTH. DK8247 DK8247 STATION RECOVERY (2012) DK8247 DK8247'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2012 (JH) DK8247'RECOVERED IN GOOD CONDITION.

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



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

				Rev. 4/01		
COUNTY OKEECHOBEE	PROJECT Hy Kissimmee Riv	drology – er Wells	DESIGNATION	LKBD5C 2006		
SECTION 22	SECTION 22 TOWNSHIP 3		RANGE 32 EA	AST		
GEOGRAPHIC INDEX OF QUAD						
Established by Nick Miller Inc. Recovered by		NAME OF QUADRANGLE BASINGER				
SURVEYOR Stephen M. Gordon DA	ATE <u>02/26/2006</u>	FIELD BOOK 09 PAGE 73				
HORIZONTAL DATUM: 1927 1983 Other (circle one) ZONE E or W						
STATE PLANE COORDINATES		E 620,823 ft		N 1,118,575 ft		
LATITUDE: N 27.41095°		LONGITUDE: W 81.10894°				
VERTICAL DATUM: MSL 1929	1988 Other	(circle	e one)	EL. 40.44 ft		
VERTICAL DATUM: MSL 1929	1988 Other	(circle	e one)	EL. 41.64 ft		
CONTROL ACCURACY: HORIZOI	NTAL 1 2 3	SUB-METER (cir	cle one) VERTIO	CAL 1 2 3		
	DESC	CRIPTION				
To Reach: FROM INTERSECTION OF US 9 0.2 MILE TO NW 160 TH DRIVE. 0 ROAD WITH SFWMD LOCKED	GO WEST ON I	NW 160 TH DRIVE F	OR 4.9 MILES	TO PAVED		

FROM INTERSECTION OF US 98 HWY AND NW 203 AVE. GO NORTH ON NW 203 AVE. FOR 0.2 MILE TO NW 160TH DRIVE. GO WEST ON NW 160TH DRIVE FOR 4.9 MILES TO PAVED ROAD WITH SFWMD LOCKED GATE. GO THROUGH LOCKED GATE DOWN PAVED ROAD FOR 1.0 MILE TO MARK ON LEFT. (THERE ARE THREE UNLOCKED GATES TO GO THROUGH BEFORE MARK) SET MONUMENT 7.2 FEET SOUTH OF BARBED WIRE FENCE, 6.45 FEET NORTH OF NORTH EDGE OF GRAY MONITORING WELL PIPE, 20.5 FEET EAST OF CENTERLINE OF PAVED ROAD. SET MAGNET 1 FOOT NORTH OF CONCRETE MONUMENT.

Benchmarks Used: B 555 & KRR PC 20

Notable Land marks:



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01

		PT TITLE TO	THRU. FEB. 23,2	206
1078.007 SET	BENCHMARK STUMD	E. DETRECK		9
FOR	MONTORING WELL	T.L. RAGER		
	KBDSC			
- SET POURED-IN-PL	ACE CONCRETE MONUMENT	4411411414	111111111111111111111111111111111111111	
WITH BRASS DISK			HILLIAM	
- SET MAGNET I'N	ORTH OF CONC. MONUMENT		1 2	
		· · · · · · · · · · · · · · · · · · ·	N	
		S S S S S S S S S S S S S S S S S S S		HAMILLA
- SET CONC. NONUMEN	T 7.2 SOUTH OF BARRED WIRE FORE		1.70	
	NORTH OF NORTH EDGE OF MU LKEDSE	4	MARINE.	47111111111
- " 1, 20.5	EAST OF & PANETS ROAD	FARMING FOUNTMENT		Grep
-		HOUSING	1	010
		- C 1000	HANNING.	
		5 20	12111	
			I A P	
STAMPING LKBDSC			+ + + + + + + + + + + + + + + + + + +	
2006		0 500	911111	est wire register
-			A GITE	THAIN
COORDINATES ON HONT			CONC.	HAMM
STATE PLANE 83	WGS 84 "		PAST	HIMAHA
N. 340940, 997 m	N. 27° 24′ 39.38″		119711111	++94+111
E. 189225, 441 m	W. OBI 9 06' 32.25"	H-1750/H-12-H-1-H-1	11110	HIMI
			$\frac{1}{1}$	1
COORDINATES ON HON			 	
N. 340942, 735 m	M 27 24' 39. 42 4	HHANAHH	 	HAT WH
D. 340 442. 735 m E. 109 727, 144 m	w 081° 06' 32-19"			TAINAH
6. 1801 ZZI 194M	081 06 32-11		1116	
Pics				11/11/11/11
29 - TOP VIEW M.W 2211	2			O- MONETE
15- M.W. GHEING EAST - 22				Ø- Maniets Well Ø- Maniers
26 - R.M. FARING LEAST -				The state of
W- BM TOT VIEW - 22				
El- Dive Int Alex - Co		*		

The NGS Data Sheet

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

```
DF8357 DESIGNATION - B 555
DF8357 PID - DF835
        PID - DF8357
STATE/COUNTY- FL/OKEECHOBEE
 DF8357
DF8357
         USGS QUAD - BASINGER (1972)
 DF8357
 DF8357
                                   *CURRENT SURVEY CONTROL
DF8357
DF8357
                                                 081 06 57.
DF8357* NAD 83(1986) - 27 25 44.
                                          (N)
                                                                  (W)
                                                                           SCALED
DF8357* NAVD 88
                                 14.822
                                         (meters)
                                                         48.63
                                                                  (feet)
                                                                           ADJUSTED
DF8357
         GEOID HEIGHT-
DF8357
                                  -26.13
                                          (meters)
                                                                           GEOID03
 DF8357
         DYNAMIC HT -
                                   14.800 (meters)
                                                          48.56
                                                                  (feet)
                                                                           COMP
                             979,129.7
DF8357
         MODELED GRAV-
                                                                           NAVD 88
                                           (mgal)
 DF8357
         VERT ORDER - SECOND
                                     CLASS I
DF8357
DF8357
DF8357. The horizontal coordinates were scaled from a topographic map and have
 DF8357.an estimated accuracy of +/- 6 seconds.
 DF8357
DF8357. The orthometric height was determined by differential leveling
 DF8357.and adjusted by the National Geodetic Survey in May 2004..
 DF8357
DF8357. The geoid height was determined by GEOID03.
 DF8357
DF8357. The dynamic height is computed by dividing the NAVD 88 DF8357. geopotential number by the normal gravity value computed on the DF8357. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 DF8357.degrees latitude (g = 980.6199 \text{ gals.}).
 DF8357
DF8357. The modeled gravity was interpolated from observed gravity values.
 DF8357
                                                       Units Estimated Accuracy MT (+/- 180 meters Scaled)
 DF8357;
                                              East
                              North
DF8357;SPC FL E
                                           188,550.
                           342,930.
DF8357
DF8357
                                    SUPERSEDED SURVEY CONTROL
 DF8357
DF8357.No superseded survey control is available for this station.
DF8357
DF8357_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML885339(NAD 83)
DF8357_MARKER: DD = SURVEY DISK
 DF8357_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 DF8357_STAMPING: B 555 2001
DF8357_MARK LOGO: FLDEP DF8357_PROJECTION: FLUSH
 DF8357_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
 DF8357_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 DF8357+STABILITY: SURFACE MOTION
 DF8357_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 DF8357+SATELLITE: SATELLITE OBSERVATIONS - October 05, 2001
DF8357
 DF8357
         HISTORY
                      - Date
                                  Condition
                                                      Report By
        HISTORY
                      - 20011005 MONUMENTED
DF8357
                                                      FLDED
 DF8357
         HISTORY
                       - 20050608 GOOD
                                                      MACTEC
DF8357
                                    STATION DESCRIPTION
DF8357
 DF8357
DF8357'DESCRIBED BY FL DEPT OF ENV PRO 2001 (JLM)
 DF8357'THE MARK IS ABOUT 23.7 MI NORTHWEST OF OKEECHOBEE, 6.0 MI NORTHWEST OF
DF8357'BASINGER, ON DF8357'NORTHWEST 160TH DRIVE, IN SECTION 15, TOWNSHIP 35 SOUTH, RANGE 32
 DF8357'EAST.
 DF8357
 DF8357'TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY 441 (PARROTT
DF8357'STREET) AND U.S.
 DF8357'HIGHWAY 98 (STATE HIGHWAY 70, PARK STREET) IN OKEECHOBEE, GO WEST ON
 DF8357'U.S. HIGHWAY 98
```

Elapsed Time = 00:00:01

```
DF8357'(STATE HIGHWAY 70, PARK STREET) FOR 1.15 MI TO THE JUNCTION OF U.S.
DF8357'HIGHWAY 98 NORTH ON
DF8357'THE RIGHT, TURN RIGHT ON U.S. HIGHWAY 98 AND GO NORTHWESTERLY FOR 0.65
DF8357'MI TO THE
DF8357'RAILROAD TRACKS, CONTINUE NORTHWESTERLY ON U.S. HIGHWAY 98 FOR 11.9 MI
DF8357'TO THE JUNCTION
DF8357'OF COUNTY ROAD 68 EAST ON THE RIGHT, CONTINUE NORTHWESTERLY ON U.S.
DF8357'HIGHWAY 98 FOR DF8357'1.85 MI TO THE JUNCTION OF NORTHWEST 176TH AVENUE (COUNTY ROAD 700-A)
DF8357'ON THE RIGHT,
DF8357'CONTINUE NORTHWESTERLY ON U.S. HIGHWAY 98 FOR 1.7 MI TO THE JUNCTION
DF8357'OF NORTHWEST
DF8357'203RD AVENUE (MICCO BLUFF ROAD) ON THE RIGHT, TURN RIGHT ON NORTHWEST
DF8357'203RD AVENUE
DF8357'(MICCO BLUFF ROAD) AND GO NORTH-NORTHWESTERLY FOR 0.2 MI TO THE
DF8357'JUNCTION OF NORTHWEST
DF8357'160TH DRIVE (MICCO BLUFF ROAD, COUNTY ROAD 68), TURN LEFT ON NORTHWEST
DF8357'160TH DRIVE
DF8357'(MICCO BLUFF ROAD, COUNTY ROAD 68) AND GO WEST-NORTHWESTERLY FOR 5.85
DF8357'MI TO THE MARK
DF8357'ON THE LEFT, SET IN THE TOP OF A ROUND CONCRETE MONUMENT FLUSH WITH
DF8357'THE GROUND AND
DF8357'ABOUT 0.5 FT ABOVE THE LEVEL OF NORTHWEST 160TH DRIVE.
DF8357
DF8357'LOCATED 33.0 FT SOUTH OF THE APPROXIMATE CENTERLINE OF THE ROAD, 18.6
DF8357'FT WEST OF THE
DF8357'CENTER OF A GATE, 10.0 FT WEST OF A BARBWIRE FENCE LEADING SOUTH, 1.1
DF8357'FT NORTH OF A
DF8357'BARBWIRE FENCE AND 1.0 FT NORTH OF A CARSONITE WITNESS POST.
DF8357'
DF8357'NOTE A MAGNET WAS IMBEDDED IN THE GROUND ON THE SOUTH SIDE OF THE
DF8357'MONUMENT.
DF8357'
DF8357'
DF8357'
DF8357'
DF8357'
DF8357
DF8357
DF8357
                                 STATION RECOVERY (2005)
DF8357
DF8357'RECOVERY NOTE BY MACTEC ENGINEERING AND CONSULTING 2005 (CBG)
DF8357'RECOVERED AS DESCRIBED
*** retrieval complete.
```

The NGS Data Sheet

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

```
DF8356 DESIGNATION - KRR PC 20
DF8356 PID - DF8356
 DF8356
         PID
                         DF8356
         STATE/COUNTY- FL/OKEECHOBEE
DF8356
         USGS QUAD - BASINGER (1972)
 DF8356
 DF8356
                                   *CURRENT SURVEY CONTROL
DF8356
DF8356
                                                081 06 03.
 DF8356* NAD 83(1986) - 27 25 29.
                                         (N)
                                                                 (W)
                                                                          SCALED
 DF8356* NAVD 88
                                14.919
                                                        48.95
                                                                 (feet)
                                                                         ADJUSTED
                                        (meters)
DF8356
         GEOID HEIGHT-
DF8356
                                 -26.14 (meters)
                                                                          GEOID03
 DF8356
         DYNAMIC HT -
                                  14.896 (meters)
                                                         48.87
                                                                 (feet)
                                                                         COMP
DF8356
         MODELED GRAV-
                             979,129.6
                                                                         NAVD 88
                                          (mgal)
 DF8356
 DF8356
         VERT ORDER - SECOND
                                    CLASS I
DF8356
DF8356. The horizontal coordinates were scaled from a topographic map and have
 DF8356.an estimated accuracy of +/- 6 seconds.
 DF8356
DF8356. The orthometric height was determined by differential leveling
 DF8356.and adjusted by the National Geodetic Survey in May 2004..
 DF8356
DF8356. The geoid height was determined by GEOID03.
 DF8356
DF8356.The dynamic height is computed by dividing the NAVD 88 DF8356.geopotential number by the normal gravity value computed on the DF8356.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 DF8356.degrees latitude (g = 980.6199 gals.).
 DF8356
DF8356. The modeled gravity was interpolated from observed gravity values.
 DF8356
                                                      Units Estimated Accuracy MT (+/- 180 meters Scaled)
 DF8356;
                                             East
                              North
 DF8356;SPC FL E
                                          190,030.
                           342,470.
DF8356
DF8356
                                    SUPERSEDED SURVEY CONTROL
 DF8356
DF8356.No superseded survey control is available for this station.
DF8356
 DF8356_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML900334(NAD 83)
 DF8356_MARKER: DD = SURVEY DISK
 DF8356_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 DF8356_STAMPING: KRR PC-20 1997 JAX DIST
 DF8356_MARK LOGO: USE
DF8356 PROJECTION: FLUSH
 DF8356_MAGNETIC: N = NO MAGNETIC MATERIAL
DF8356_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO DF8356+STABILITY: SURFACE MOTION
 DF8356_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 DF8356+SATELLITE: SATELLITE OBSERVATIONS - October 05, 2001
DF8356
 DF8356
        HISTORY
                      - Date
                                  Condition
                                                     Report By
        HISTORY
                      - 1997
DF8356
                                  MONUMENTED
                                                     USE
 DF8356
         HISTORY
                      - 20011005 GOOD
                                                     FLDEP
DF8356
                                    STATION DESCRIPTION
DF8356
 DF8356
DF8356'DESCRIBED BY FL DEPT OF ENV PRO 2001 (JLM)
 DF8356'THE MARK IS ABOUT 22.7 MI NORTHWEST OF OKEECHOBEE, 5.0 MI NORTHWEST OF
DF8356'BASINGER, ON DF8356'NORTHWEST 160TH DRIVE, IN SECTION 14, TOWNSHIP 35 SOUTH, RANGE 32
 DF8356'EAST.
 DF8356'
 DF8356'TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY 441 (PARROTT
DF8356'STREET) AND U.S.
 DF8356'HIGHWAY 98 (STATE HIGHWAY 70, PARK STREET) IN OKEECHOBEE, GO WEST ON
 DF8356'U.S. HIGHWAY 98
```

- PARK STREET) FOR 1.15 MI TO THE JUNCTION OF U.S. DF8356'(STATE HIGHWAY 70, DF8356'HIGHWAY 98 NORTH ON DF8356'THE RIGHT, TURN RIGHT ON U.S. HIGHWAY 98 AND GO NORTHWESTERLY FOR 0.65 DF8356'MI TO THE DF8356'RAILROAD TRACKS, CONTINUE NORTHWESTERLY ON U.S. HIGHWAY 98 FOR 11.9 MI DF8356'TO THE JUNCTION DF8356'OF COUNTY ROAD 68 EAST ON THE RIGHT, CONTINUE NORTHWESTERLY ON U.S. DF8356'HIGHWAY 98 FOR DF8356'1.85 MI TO THE JUNCTION OF NORTHWEST 176TH AVENUE (COUNTY ROAD 700-A) DF8356'ON THE RIGHT, DF8356'CONTINUE NORTHWESTERLY ON U.S. HIGHWAY 98 FOR 1.7 MI TO THE JUNCTION DF8356'OF NORTHWEST DF8356'203RD AVENUE (MICCO BLUFF ROAD) ON THE RIGHT, TURN RIGHT ON NORTHWEST DF8356'203RD AVENUE DF8356'(MICCO BLUFF ROAD) AND GO NORTH-NORTHWESTERLY FOR 0.2 MI TO THE DF8356'JUNCTION OF NORTHWEST DF8356'160TH DRIVE (MICCO BLUFF ROAD, COUNTY ROAD 68), TURN LEFT ON NORTHWEST DF8356'160TH DRIVE DF8356'(MICCO BLUFF ROAD, COUNTY ROAD 68) AND GO WEST-NORTHWESTERLY FOR 4.9 DF8356'MI TO THE DF8356'JUNCTION OF A DIRT ROAD ON THE LEFT LEADING SOUTH-SOUTHWEST AND THE DF8356'MARK ON THE DF8356'RIGHT, SET IN THE TOP OF A ROUND CONCRETE MONUMENT ENCASED IN A DF8356'10-INCH PVC PIPE DF8356'RECESSED 0.2 FT BELOW THE LEVEL OF THE GROUND AND BELOW THE LEVEL OF DF8356'NORTHWEST 160TH DF8356'DRIVE. DF8356' DF8356'LOCATED 69.0 FT NORTH OF AND ACROSS NORTHWEST 160TH DRIVE FROM POWER DF8356'POLE NUMBER DF8356'052S054 (ABC 5365,5366 CKT 2) WITH A TRANSFORMER NUMBER 934E50 DF8356'ATTACHED, 32.2 FT DF8356'NORTH-NORTHEAST OF THE APPROXIMATE CENTERLINE OF NW 160TH DR, 20.8 FT DF8356'WEST-NORTHWEST DF8356'OF CABLE BOX NUMBER 116, 12.4 FT WEST OF THE APPROXIMATE CENTERLINE OF DF8356'A FIELD ENTRANCE DF8356'AND A METAL GATE, 5.0 FT SOUTHWEST OF A 4-INCH WOODEN POST WITH A DF8356'U.S.E. SIGN ATTACHED, DF8356'3.4 FT SOUTH-SOUTHWEST OF A BARBWIRE FENCE AND 3.0 FT SOUTH-SOUTHWEST DF8356'OF A CARSONITE DF8356'WITNESS POST. DF8356' DF8356'
- *** retrieval complete. Elapsed Time = 00:00:00

LKBD5C. ABS Windows Abstra Version 2.3 -- Jan 1, 2004 Tue Feb 28 15: 23: 02 2006

-*- FIELD ABSTRACT -*060227-060227 HGZ L26807 8.0 MM ORDER 2 CLASS 2 PAGE 1
SUTRON CORPORATION AND SOUTH FLORIDA WATER MANAGEMENT DISTRICT
HIGHLANDS AND OKEECHOBEE COUNTY MONITORING WELLS
ESTABLISH BENCH MARK NEAR MONITORING WELL LKBD5C

FROM TO	START	F/B	DIST TOTAL (KM)	ELEV DIFF (MT)		-(F+B) TOTAL (MM)	MEAN DIFF FLD ELEV (MT)	C
0336 B 555							14. 82200	
0336 B 555 0335 KRR PC 20	2270955	F	1. 54	0. 09649	*	0.00	0. 09649	1
0333 KKK FC 20			1. 54			0.00	14. 91849	
0335 KRR PC 20 0334 LKBD5C	2271140 2271330	-	1. 75 1. 75	-2. 59050 2. 59555	* *	-5. 06	-2. 59302	1
	SL 1 REJECTION AND E		3. 30	2. 39333		-5. 06	12 . 32547 ♀	'

C - section elevation difference was rejected for cause

ie. *43* record rejection code set to "F"

R - section elevation difference was rejected by Halperin rejection algorithm

e - section elevation difference does not include refraction correction

section elevation difference does not include rod correction

F INSTRUMENT CODE INSTRUMENT RODS

1 243 - 332854 396 - 333 396 - 444

LEVEL LINE SECTION RUNNING TREE

0336 0335 (03349 FROM T0 N. LATITUDE W. LONGI TUDE FIELD DISTANCE VS. COMPUTED 0336 272544 0810657 0.00 0.00 0336 0335 272529 0810603 1.54 1.55 0335 0334 1. 73♀ 272439 0810632 1.75 Windows Abstra Version 2.3 -- Jan 1, 2004 -- Tue Feb 28 15:23:02 2006

SECTION FROM TO ERROR MESSAGES

RIVAC 1	Elevation:	28.37 ft	(NAVD 88)	29.61 ft	(NGVD 29)
Bench Mark 1:	KR 1357	33.34 ft	(NAVD 88)	34.58 ft	(NGVD 29)
Bench Mark 2:	LKBD1B	32.33 ft	(NAVD 88)	33.57 ft	(NGVD 29)
Monitoring Well East:	RIVAC 1	31.78 ft	(NAVD 88)	33.02 ft	(NGVD 29)
Brass Disk on Conc. Pad:	RIVAC 1	28.93 ft	(NAVD 88)	30.17 ft	(NGVD 29)
Monitoring Well West:	RIVAC 1	31.71 ft	(NAVD 88)	32.95 ft	(NGVD 29)
Brass Disk on Conc. Pad:	RIVAC 1	28.81 ft	(NAVD 88)	30.05 ft	(NGVD 29)
Ground Elevation:	RIVAC 1	28.66 ft	(NAVD 88)	29.90 ft	(NGVD 29)
Length of Run:	4.72 km	To Reach RIVAC	1:	•	•

Max Allowable Misclosure: 17 mm Actual Misclosure: 8 mm



FROM INTERSECTION OF US 98 HWY AND 144TH TRAIL. GO SOUTH ON 144TH TRAIL FOR 4.8 MILES TO NW 83RD TRAIL. GO WEST ON NW $83^{\rm RD}$ TRAIL FOR 0.2 MILE TO NW $80^{\rm TH}$ DRIVE. GO NORTH ON NW 80TH DRIVE FOR 1.2 MILES CURVING INTO A DEAD END. MARK WILL BE ON LEFT. 7.0 FEET NORTHWEST OF SOUTHWEST BALLARD POST, 10.0 FEET SOUTHWEST OF SOUTHWEST EDGE OF GREY PIPE OF NORTHERN WELL OF MONITORING WELL RIVAC 1, 44.4 FEET EAST OF CENTERLINE OF NW 80^{TH} DRIVE. SET MAGNET 1 FOOT NORTH OF MONUMENT.

RIVAC 2 Elevation:		Elevation:	32.84 ft	(NAVD 88)	34.08 ft	(NGVD 29)
Bench Mark 1:	KR 13	357	33.34 ft	(NAVD 88)	34.58 ft	(NGVD 29)
Bench Mark 2:	LKBD	1B	32.33 ft	(NAVD 88)	33.57 ft	(NGVD 29)
Monitoring Well East:	RIVA	C 2	36.08 ft	(NAVD 88)	37.31 ft	(NGVD 29)
Brass Disk on Conc. Pad:	RIVA	C 2	33.38 ft	(NAVD 88)	34.61 ft	(NGVD 29)
Monitoring Well West:	RIVA	C 2	36.03 ft	(NAVD 88)	37.26 ft	(NGVD 29)
Brass Disk on Conc. Pad:	RIVA	C 2	33.39 ft	(NAVD 88)	34.62 ft	(NGVD 29)
Ground Elevation:	RIVA	C 2	33.14 ft	(NAVD 88)	34.37 ft	(NGVD 29)
Longth of Dun:	4 72	km	To Peach PIVAC	2.		

Length of Run: Max Allowable Misclosure: 17 mm Actual Misclosure: 8 mm



FROM INTERSECTION OF US 98 HWY AND 144TH TRAIL. GO SOUTH ON $144^{\rm TH}$ TRAIL FOR 4.8 MILES TO NW $83^{\rm RD}$ TRAIL. GO WEST ON NW $83^{\rm RD}$ TRAIL FOR 0.2 MILE TO NW $80^{\rm TH}$ DRIVE. GO SOUTH ON NW $80^{\rm TH}$ DRIVE FOR +/- 125 FEET TO MARK ON LEFT. 56.6 FEET WEST OF CENTERLINE NW 80^{TH} DRIVE, 6.0 FEET SOUTH OF SOUTH EDGE OF GREY PIPE OF EASTERN WELL OF MONITORING WELL RIVAC 2, 4.5 FEET SOUTHWEST OF SOUTHEAST BALLARD POST. SET MAGNET 1 FOOT NORTH OF MONUMENT.

Surveyor's Report Page 8

RIVAC 1



Nick Miller, Inc. Date of Photo: February 24, 2006 View: Looking at the well RIVAC 1 facing east





Nick Miller, Inc. Date of Photo: February 24, 2006 View: Close-up of the north well showing the contractor's markings





Nick Miller, Inc. Date of Photo: February 24, 2006 View: Close-up of the south well showing the contractor's markings





Nick Miller, Inc.

Date of Photo: February 24, 2006

View: Top View of north well's brass disk on concrete pad (Elevation on brass disk)





Nick Miller, Inc.

Date of Photo: February 24, 2006

View: Top View of south well's brass disk on concrete pad (Elevation on brass disk)



Date of Photo: February 24, 2006 View: Looking at the benchmark facing east



Nick Miller, Inc. Date of Photo: February 24, 2006 View: A top view of the benchmark

LK BD1B



Nick Miller, Inc. Date of Photo: January 20, 2005 View: A top view of the benchmark



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

				Rev. 4/01		
COUNTY OKEECHOBEE	PROJECT Hy Kissimmee Riv	•	DESIGNATIO	ON RIVAC 1 2006		
SECTION 21	TOWNSHIP 3	6 SOUTH	RANGE 33	EAST		
GEOGRAPHIC INDEX OF QUAD						
Established by <u>Nick Miller Inc.</u> Recovered by	NAME OF QUADRANGLE FORT BASINGER					
SURVEYOR Stephen M. Gordon DA	FIELD BOOK	09	PAGE 76			
HORIZONTAL DATUM: 1927	983 Other_	(circle one) ZONE E or W				
STATE PLANE COORDINATES		E 646,465 ft	65 ft N 1,089,445			
LATITUDE: N 27.33086°		LONGITUDE: W 81.02988°				
VERTICAL DATUM: MSL 1929	1988 Other	(circle	EL. 28.37 ft			
VERTICAL DATUM: MSL 1929	1988 Other	(circle	EL. 29.61 ft			
CONTROL ACCURACY: HORIZONTAL 1 2 3 SUB-METER (circle one) VERTICAL 1 2 3						
DESCRIPTION						
To Reach:						
FROM INTERSECTION OF US 98 HWY AND 144 TH TRAIL. GO SOUTH ON 144 TH TRAIL FOR 4.8 MILES TO NW 83 RD TRAIL. GO WEST ON NW 83 RD TRAIL FOR 0.2 MILE TO NW 80 TH						

FROM INTERSECTION OF US 98 HWY AND 144TH TRAIL. GO SOUTH ON 144TH TRAIL FOR 4.8 MILES TO NW 83RD TRAIL. GO WEST ON NW 83RD TRAIL FOR 0.2 MILE TO NW 80TH DRIVE. GO NORTH ON NW 80TH DRIVE FOR 1.2 MILES CURVING INTO A DEAD END. MARK WILL BE ON LEFT. 7.0 FEET NORTHWEST OF SOUTHWEST BALLARD POST, 10.0 FEET SOUTHWEST OF SOUTHWEST EDGE OF GREY PIPE OF NORTHERN WELL OF MONITORING WELL RIVAC 1, 44.4 FEET EAST OF CENTERLINE OF NW 80TH DRIVE. SET MAGNET 1 FOOT NORTH OF MONUMENT.

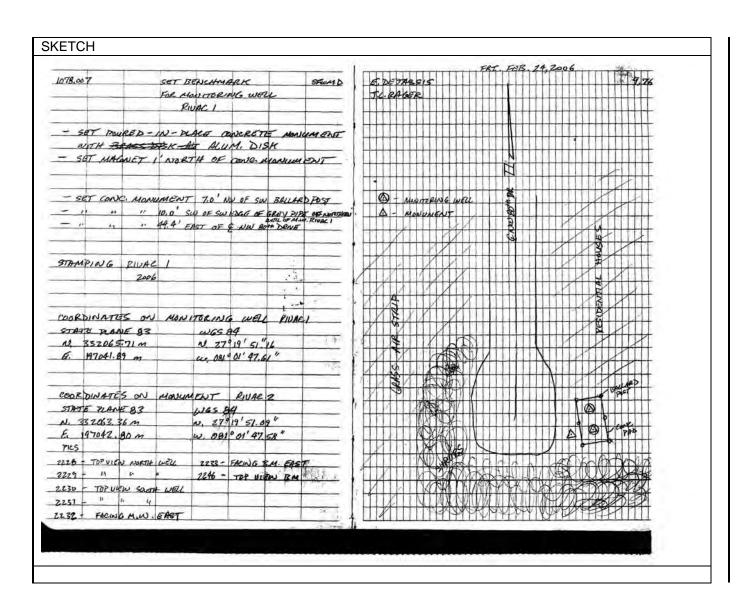
Benchmarks Used: KR 1357 & LKBD1B

Notable Land marks:



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01



The NGS Data Sheet

See file <u>dsdata.txt</u> for more information about the datasheet.

```
DF8391 DESIGNATION - KR 1357
         PID - DF8391
STATE/COUNTY- FL/OKEECHOBEE
 DF8391
 DF8391
         USGS QUAD - FORT BASINGER (1972)
 DF8391
 DF8391
                                    *CURRENT SURVEY CONTROL
 DF8391
 DF8391
                                                  081 01 18.
 DF8391* NAD 83(1986) - 27 18 54.
                                          (N)
                                                                   (W)
                                                                            SCALED
 DF8391* NAVD 88
                                 10.162
                                                          33.34
                                                                           ADJUSTED
                                          (meters)
                                                                   (feet)
 DF8391
         GEOID HEIGHT-
 DF8391
                                  -26.23 (meters)
                                                                            GEOID03
 DF8391
         DYNAMIC HT -
                                   10.146 (meters)
                                                           33.29
                                                                   (feet)
                                                                           COMP
                              979,112.7
 DF8391
         MODELED GRAV-
                                                                            NAVD 88
                                           (mgal)
 DF8391
 DF8391
         VERT ORDER - SECOND
                                     CLASS I
 DF8391
 DF8391. The horizontal coordinates were scaled from a topographic map and have
 DF8391.an estimated accuracy of +/- 6 seconds.
 DF8391
 DF8391. The orthometric height was determined by differential leveling
 DF8391.and adjusted by the National Geodetic Survey in May 2004..
 DF8391
 DF8391. The geoid height was determined by GEOID03.
 DF8391
DF8391. The dynamic height is computed by dividing the NAVD 88 DF8391. geopotential number by the normal gravity value computed on the DF8391. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 DF8391.degrees latitude (g = 980.6199 gals.).
 DF8391
 DF8391. The modeled gravity was interpolated from observed gravity values.
 DF8391
                                                        Units Estimated Accuracy MT (+/- 180 meters Scaled)
 DF8391;
                                               East
                               North
 DF8391;SPC FL E
                                           197,860.
                            330,310.
 DF8391
 DF8391
                                     SUPERSEDED SURVEY CONTROL
 DF8391
 DF8391.No superseded survey control is available for this station.
 DF8391
 DF8391_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML978213(NAD 83) DF8391_MARKER: DD = SURVEY DISK
 DF8391_SETTING: 36 = SET IN A MASSIVE STRUCTURE
 DF8391_SP_SET: STRUCTURE WALL
DF8391_STAMPING: KR 1357 1979
 DF8391 MARK LOGO: USE
 DF8391_MAGNETIC: N = NO MAGNETIC MATERIAL
DF8391_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL DF8391_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 DF8391+SATELLITE: SATELLITE OBSERVATIONS - September 08, 2001
 DF8391
 DF8391
         HISTORY
                       - Date
                                   Condition
                                                       Report By
 DF8391 HISTORY
                       - 1979
                                   MONUMENTED
                                                       USE
 DF8391 HISTORY
                       - 20010908 GOOD
                                                       FLDED
 DF8391
 DF8391
                                     STATION DESCRIPTION
 DF8391
 DF8391'DESCRIBED BY FL DEPT OF ENV PRO 2001 (JLM)
 DF8391'THE MARK IS ABOUT 19.0 MI SOUTHEAST OF LORIDA, 16.0 MI NORTHWEST OF
 DF8391'OKEECHOBEE, 0.8 MI
 DF8391'WEST OF THE KISSIMMEE RIVER, IN SECTION 27, TOWNSHIP 36 SOUTH, RANGE
 DF8391'33 EAST.
 DF8391'
 DF8391'TO REACH THE MARK FROM THE POST OFFICE IN LORIDA, GO SOUTHEAST ON U.S.
 DF8391'HIGHWAY 98 FOR
 DF8391'3.4 MI TO THE JUNCTION OF COUNTY ROAD 612 ON THE RIGHT, CONTINUE
 DF8391'SOUTHEAST ON U.S.
 DF8391'HIGHWAY 98 FOR 3.15 MI TO THE NORTH END OF THE BRIDGE OVER THE
```

- DF8391'ISTOKPOGA CANAL DF8391'CONTINUE SOUTHEAST ON U.S. HIGHWAY 98 FOR 7.25 MI TO THE JUNCTION OF DF8391'COUNTY ROAD 721 ON DF8391'THE RIGHT, TURN RIGHT ON COUNTY ROAD 721 AND GO SOUTH FOR $4.4~\mathrm{MI}$ TO DF8391'THE JUNCTION OF A DF8391'BOAT RAMP ROAD ON THE LEFT, TURN LEFT ON THE BOAT RAMP ROAD AND GO DF8391'EAST FOR 1.2 MI TO DF8391'THE JUNCTION OF UNDERHILL ROAD ON THE LEFT, TURN LEFT ON UNDERHILL DF8391'ROAD AND GO NORTH DF8391'FOR 0.7 MI TO THE JUNCTION OF AN ACCESS ROAD TO STRUCTURE 65D, TURN DF8391'RIGHT ON THE ACCESS DF8391'ROAD TO STRUCTURE 65D AND GO EAST FOR 0.85 MI TO STRUCTURE 65D AND A DF8391'LOCKED GATE, DF8391'CONTINUE EAST ON THE ACCESS ROAD FOR 0.1 MI TO THE DEAD END OF THE DF8391'ROAD AND AN FENCE DF8391'ENCLOSING TO STRUCTURE 65D CONTROL DAM, BY FOOT WALK THROUGH THE DF8391'STRUCTURE ABOUT DF8391'100.0 FT TO THE MARK, SET FLUSH IN THE EAST STRUCTURE WALL LEVEL WITH DF8391'THE GROUND AND DF8391'ABOUT LEVEL WITH ACCESS ROAD. THE MARK CAN ALSO BE REACHED FROM THE DF8391'JUNCTION OF U.S. DF8391'HIGHWAY 441 (PARROTT STREET) AND STATE ROAD 70 (PARK STREET) IN DF8391'OKEECHOBEE, GO WEST ON DF8391'STATE ROAD 70 (U.S. HIGHWAY 98, PARK STREET) FOR 1.15 MI TO THE DF8391'JUNCTION OF U.S. HIGHWAY 98 DF8391'NORTH ON THE RIGHT, TURN RIGHT ON U.S. HIGHWAY 98 AND GO NORTH FOR DF8391'12.4 MI TO THE DF8391'JUNCTION OF NORTHWEST 114TH TRAIL ON THE LEFT, TURN LEFT ON NORTHWEST DF8391'114TH TRAIL AND DF8391'GO WEST FOR 4.85 MI TO THE END OF THE PAVEMENT, CONTINUE WEST ON THE DF8391'SAND ROAD FOR 0.45 DF8391'MI TO THE DEAD END AND STRUCTURE 65D AND THE MARK. DF8391' DF8391'LOCATED 84.5 FT SOUTH OF THE SOUTHWEST CORNER OF THE STRUCTURE DF8391'BUILDING (S 65D), 43.0 FT DF8391'SOUTH OF A LIGHT POLE, 29.2 FT SOUTHWEST OF A FLAG POLE, 22.7 FT NORTH DF8391'OF THE NORTHWEST DF8391'CORNER OF THE STRUCTURE BUILDING (S 65D), 15.4 FT NORTH OF A LIGHT DF8391'POLE, 15.0 FT WEST OF A DF8391'6-FOOT TALL CHAINLINK FENCE AND 2.3 FT WEST OF A 3-FOOT TALL CHAINLINK DF8391'FENCE. DF8391'
- *** retrieval complete. Elapsed Time = 00:00:00

DF8391'



Notable Land marks:

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

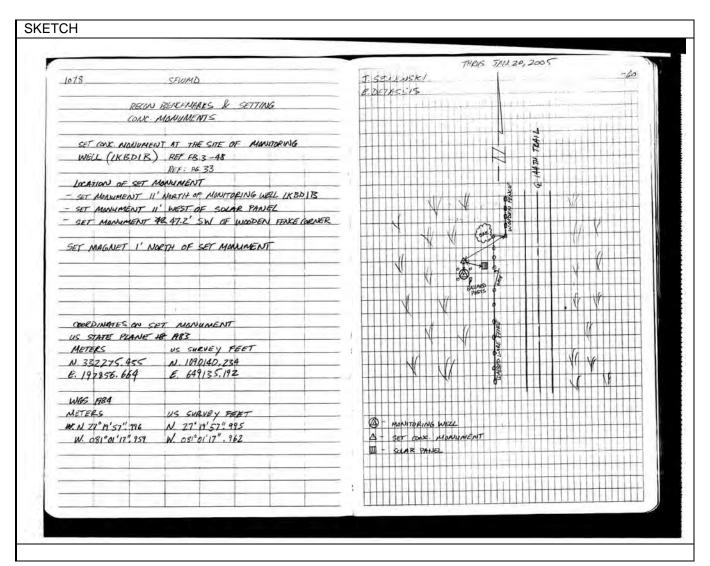
Rev. 4/01

COUNTY OKEECHOBEE	PROJECT Hy	drology – UEC	DESIGNATION LKBD1B 2005				
	Floridian Wells						
SECTION 15	TOWNSHIP 36	SOUTH	RANGE 33 EAST				
GEOGRAPHIC INDEX OF QUAD							
Established by Nick Miller Inc.		NAME OF QUADRA	NGLE				
Recovered by		FORT BASINGER					
SURVEYOR Stephen M. Gordon D.	ATE <u>1/20/</u> 2005	FIELD BOOK 1	PAGE 60				
HORIZONTAL DATUM: 1927 (1	983 Other_	(circle	e one) ZONE(E) or W				
VERTICAL DATUM: MSL 1929	1988 Other	(circle	e one)				
CONTROL ACCURACY: HORIZO	NTAL 1 2 3	SUB-METER cir	cle one) VERTICAL 1 2 3				
STATE PLANE COORDINATES	E 649135ft	N 1090140ft	EL. 32.34 ft				
LATITUDE N 27.33278°		L	ONGITUDE W 81.02166°				
	DESC	RIPTION					
To Reach:							
TO REACH MARK FROM THE .			AND STATE ROAD 70 IN				
OKEECHOBEE, GO NORTH ON							
11.8 MI (18.99 KM) TO 144 th TRAIL, TURN LEFT ON 144 th TRAIL AND GO SOUTHWESTERLY							
FOR 3.8 MI (6.12 KM) TO MARI	ON THE RIGI	HT, SET IN					
TOP OF A ROUND CONCRETE	MONUMENT (0.2 FT (6.1 CM) BEI	LOW LEVEL OF THE				
GROUND. LOCATED 11 FT (3.3	5 M) NORTH C	F LKBD1B MONIT	ORING WELL, 11 FT WEST				
NORTHWEST OF SOLAR PANE	EL, 47.2 FT (14.3	9 M) SOUTHWES	Γ OF WOODEN FENCE				
CORNER POST.							



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01



RI VAC1. ABS Windows Abstra Version 2.3 -- Jan 1, 2004 Fri Mar 03 10:37:30 2006

-*- FIELD ABSTRACT -*-060301-060301 HGZ L26807 8.0 MM ORDER 2 CLASS 2 PAGE 1 SUTRON CORPORATION AND SOUTH FLORIDA WATER MANAGEMENT DISTRICT HIGHLANDS AND OKEECHOBEE COUNTY MONITORING WELLS ESTABLISH BENCH MARK NEAR MONITORING WELL RIVAC1

	FROM TO	START	F/B	DIST TOTAL (KM)	ELEV DIFF (MT)	-(F+B) TOTAL (MM)	MEAN DIFF FLD ELEV (MT)	C
	0345 LKBD1B						9. 85500	
•	0345 LKBD1B 0346 KR 1357	3010900	F	2. 01	0. 31515 *	0.00	0. 31515	- 1
	0340 KK 1337			2. 01		0.00	10. 17015	
	0346 KR 1357 0340 RIVAC 2	3011115 3011630	-	1. 09 1. 08	-0. 15876 * 0. 15930 *	0.0.	-0. 15903	- 1 1
	0340 KI VAC 2	SL 1	Ь	3. 08	0. 13730	-0. 54	10. 01112	'
	0340 RIVAC 2 0343 RIVAC 1	3011300 3011500		1. 64 1. 67	-1. 36465 * 1. 36419 *	0. 10	-1. 36442	- 1
	ELEVATION	SL 1	_	4.72	1. 30419	-0. 08	8. 64670♀	'
		TESESTION AND		CODEO				

C - section elevation difference was rejected for cause

ie. *43* record rejection code set to "F" R - section elevation difference was rejected by Halperin rejection algorithm

- section elevation difference does not include refraction correction - section elevation difference does not include rod correction

INSTRUMENT CODE INSTRUMENT **RODS** 396 - 222 1 243 - 331132 396 - 111 우

LEVEL LINE SECTION RUNNING TREE

0345 0346 (0340 0343₽ FROM T0 N. LATITUDE W. LONGI TUDE FIELD DISTANCE VS. COMPUTED 271958 0345 0810118 0.00 0.00 0345 0346 271854 0810118 2.01 1.97 0346 0340 271910 0810130 1.08 0.59 0340 0343 271951 0810147 1.64 1. 35♀ Windows Abstra Version 2.3 -- Jan 1, 2004 -- Fri Mar 03 10:37:30 2006

SECTION ERROR MESSAGES FROM TO



Nick Miller, Inc. Date of Photo: February 24, 2006 View: Looking at the well RIVAC 2 facing north





Nick Miller, Inc. Date of Photo: February 24, 2006 View: Close-up of the east well showing the contractor's markings





Nick Miller, Inc. Date of Photo: February 24, 2006 View: Close-up of the west well showing the contractor's markings





Nick Miller, Inc.

Date of Photo: February 24, 2006

View: Top View of east well's brass disk on concrete pad (Elevation on brass disk)





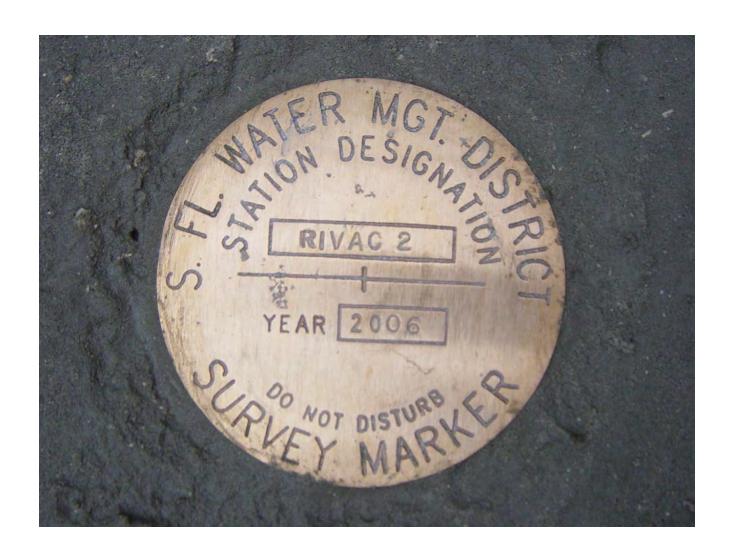
Nick Miller, Inc.

Date of Photo: February 24, 2006

View: Top View of west well's brass disk on concrete pad (Elevation on brass disk)



Nick Miller, Inc.
Date of Photo: February 24, 2006
View: Looking at the benchmark facing north



Nick Miller, Inc. Date of Photo: February 24, 2006 View: A top view of the benchmark



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

				Rev. 4/01			
COUNTY OKEECHOBEE	PROJECT Hy Kissimmee Riv		DESIGN	ATION RIVAC 2 2006			
SECTION 22	TOWNSHIP 3	6 SOUTH	RANGE	33 EAST			
GEOGRAPHIC INDEX OF QUAD							
Established by Nick Miller Inc. Recovered by		NAME OF QUADRANGLE FORT BASINGER					
SURVEYOR Stephen M. Gordon DA	ATE <u>02/24/2006</u>	FIELD BOOK	09	PAGE <u>75</u>			
HORIZONTAL DATUM: 1927	983 Other_	(circle	e one)	ZONE E or W			
STATE PLANE COORDINATES		E 648,033 ft N		N 1,085,321 ft			
LATITUDE: N 27.31952°		LONGITUDE: W 81	1.02505°				
VERTICAL DATUM: MSL 1929	1988 Other	(circle one)		EL. 32.84 ft			
VERTICAL DATUM: MSL 1929	1988 Other	(circle	e one)	EL. 34.08 ft			
CONTROL ACCURACY: HORIZONTAL 1 2 3 SUB-METER (circle one) VERTICAL 1 2 3							
DESCRIPTION							
FROM INTERSECTION OF US 98 HWY AND 144 TH TRAIL. GO SOUTH ON 144 TH TRAIL FOR 4.8 MILES TO NW 83 RD TRAIL. GO WEST ON NW 83 RD TRAIL FOR 0.2 MILE TO NW 80 TH DRIVE. GO SOUTH ON NW 80 TH DRIVE FOR +/- 125 FEET TO MARK ON LEFT. 56.6 FEET WEST OF CENTERLINE NW 80 TH DRIVE, 6.0 FEET SOUTH OF SOUTH EDGE OF GREY PIPE							

OF EASTERN WELL OF MONITORING WELL RIVAC 2, 4.5 FEET SOUTHWEST OF SOUTHEAST BALLARD POST. SET MAGNET 1 FOOT NORTH OF MONUMENT.

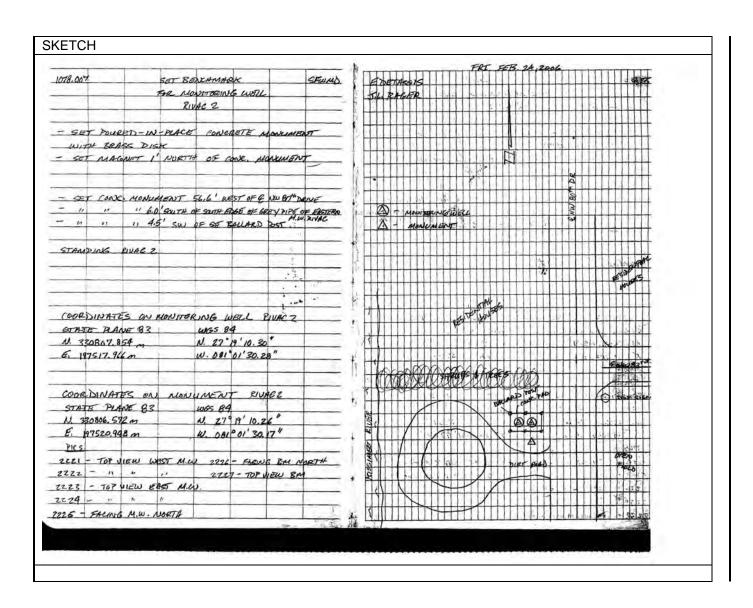
Benchmarks Used: KR 1357 & LKBD1B

Notable Land marks:



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01



The combination of Second-Order, Class II methods and Third-Order fiberglass level rods produced errors of closure within the FGCS standard for Second-Order, Class II geodetic leveling. The data gathered during this project has been submitted to Mr. Ronnie Taylor, NGS Advisor for the State of Florida for further analysis and recommendations.

SURVEYOR'S CERTIFICATION

In my professional opinion, this report of survey meets applicable portions of the Minimum Technical Standards set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 61-G17, Florida Administrative Code. This report is prepared for the sole and specific use of the South Florida Water Management District and the SUTRON Corporation and is not assignable.

	NICK MILLER, INC. DBPR Authorization No. 4318	
March 02, 2006	By:	
Date of Survey	Stephen M. Gordon, PSM	
	Professional Surveyor and Mapper	
	State of Florida	
	Certificate No. 5974	

Surveyor's Report Page 9

	MOW FEB 20, 2006
1078.007 RETON BENCHMARKS SFUMD	9.69
FOR MONITORING WELL	J. L. RAGER
LEVELING	
& REF : NGS DATASITEETS FOR LOCATION AND DESCRIPTION	
- FND KR 1744 IN GOOD CONDITION) WE FOR M.W.	
- FND G553 11 " " / LKBDIA	
- TTS NOT FND	
- V75 " "	
- W75 11 4	
- FND MSS3 IN GOOD CONDITTED (FILL MIT NGS)	
- FND X528 11 41 41	
- BAD COORDINATES COULD NOT LOCATE	
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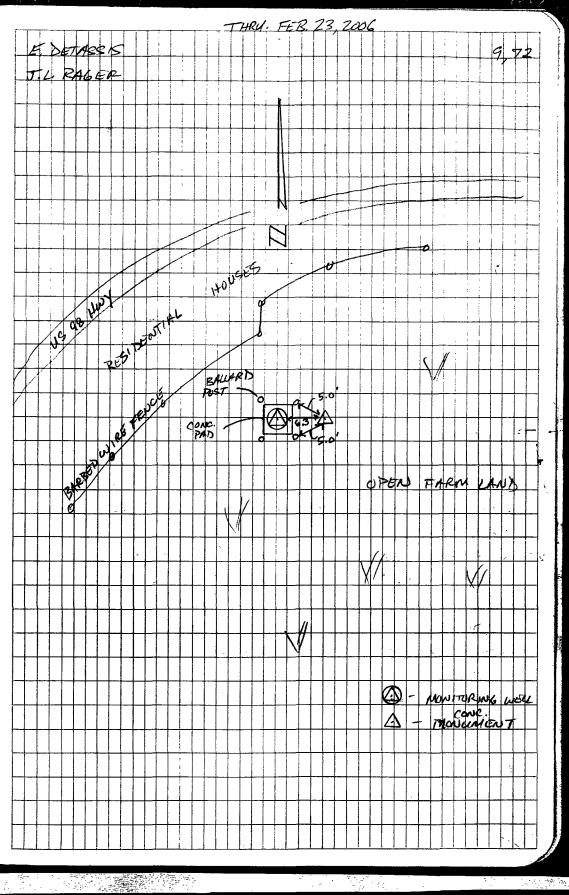
1078.007 RETON BENCHMARKS AND STUMD	TUES: FE B. 21, 2006	نہ یا
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LEVELING	Present the second of the seco	
* REF: NGS DATASHEETS FOR LOCATION AND DESCRIPTION		
- FND MONITORING WELL LKBDIA SEE PAGE 69 FOR		
1- FND " LKBD3C CONTROL		
- FND BM V554 IN GOOD MUDITION		
FND BM USSA 11 11		and the same of th
1- FND BM 2559 " "		
- FND BM KRR 20 PC 11 11		
- FAD MONITORING WELL LIEBDSC		
- FNX RM HRR RC 21 IN GOOD CONTS, TOON (3)		
- FND BM B555 IN GOOD CONDITION		
1- FWD MONITORING WELL LKBD3A		
- FILD BM KR 1746 IN GOOD CONDITION		
FND BM M.W. LKBC1/3		<u> </u>
- FUD BM E 463 IN GOOD CONDITION		
- FND BM KR 1486 " "		
FAD BM FCD / " "		
F FUT RIVACI MONITORING WELL		
- FUD RIVACZ "		
- FND BM KR 1357 IN GOOD CONDITION	┡╋╋╇╇╇╇╇╇╇╇╇	++++
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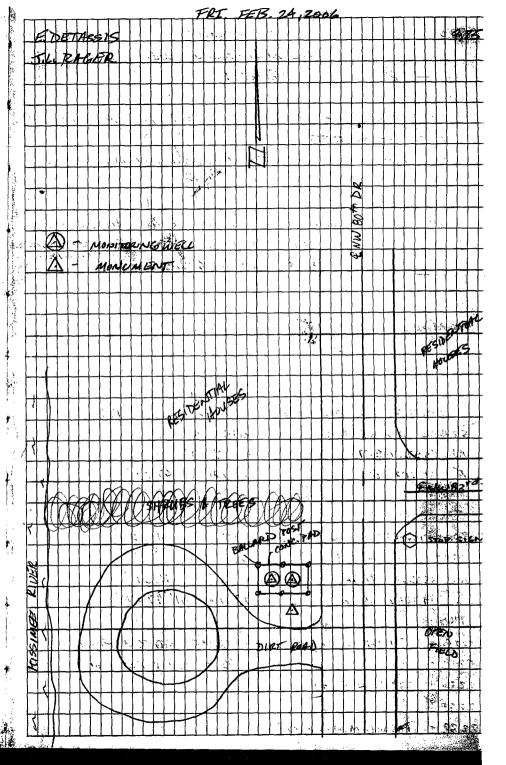
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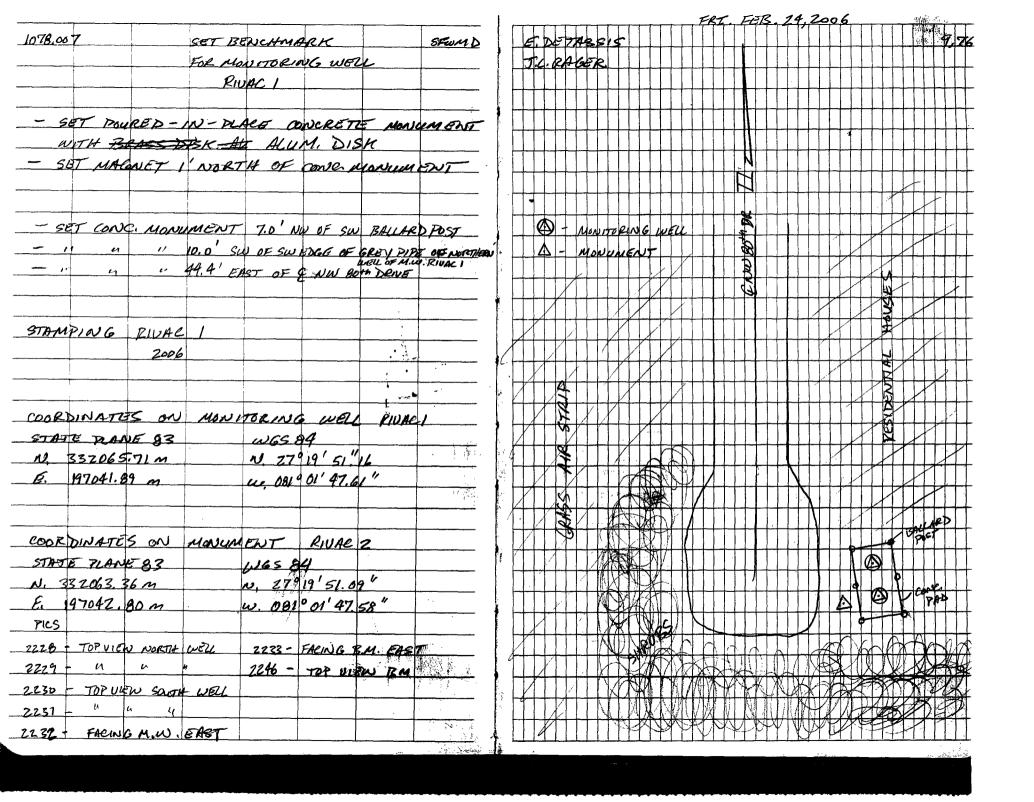
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29 - TOP VIEW	M.W 2210			1 MONETBRING
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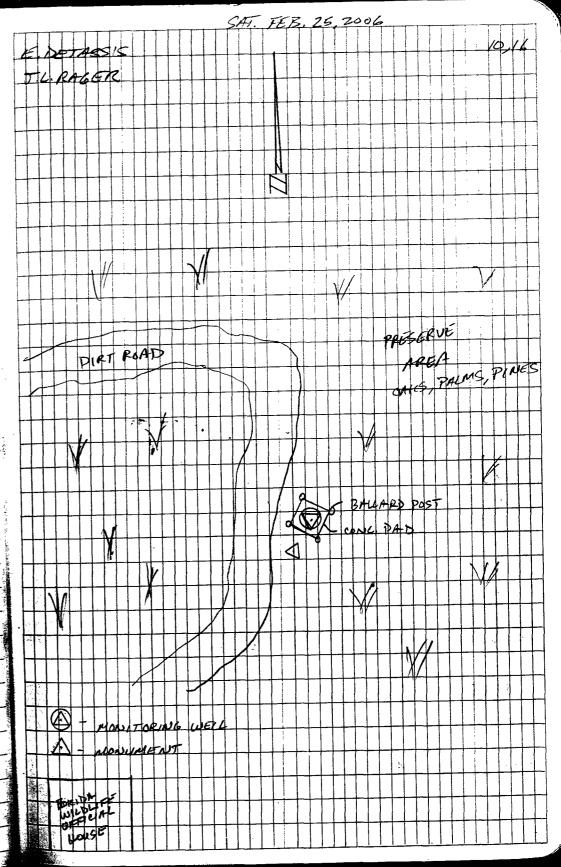
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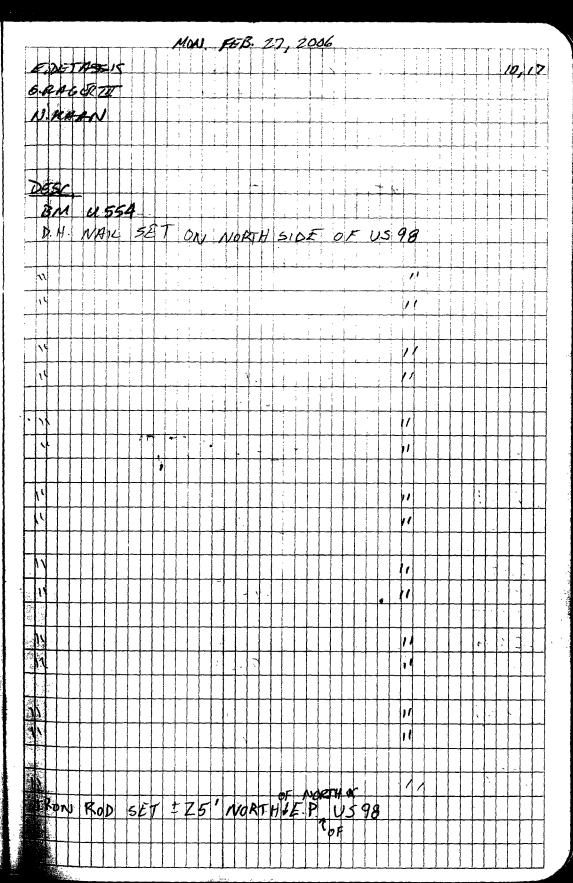
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1078.007 SET BENCHMARK	J.C. RAGER
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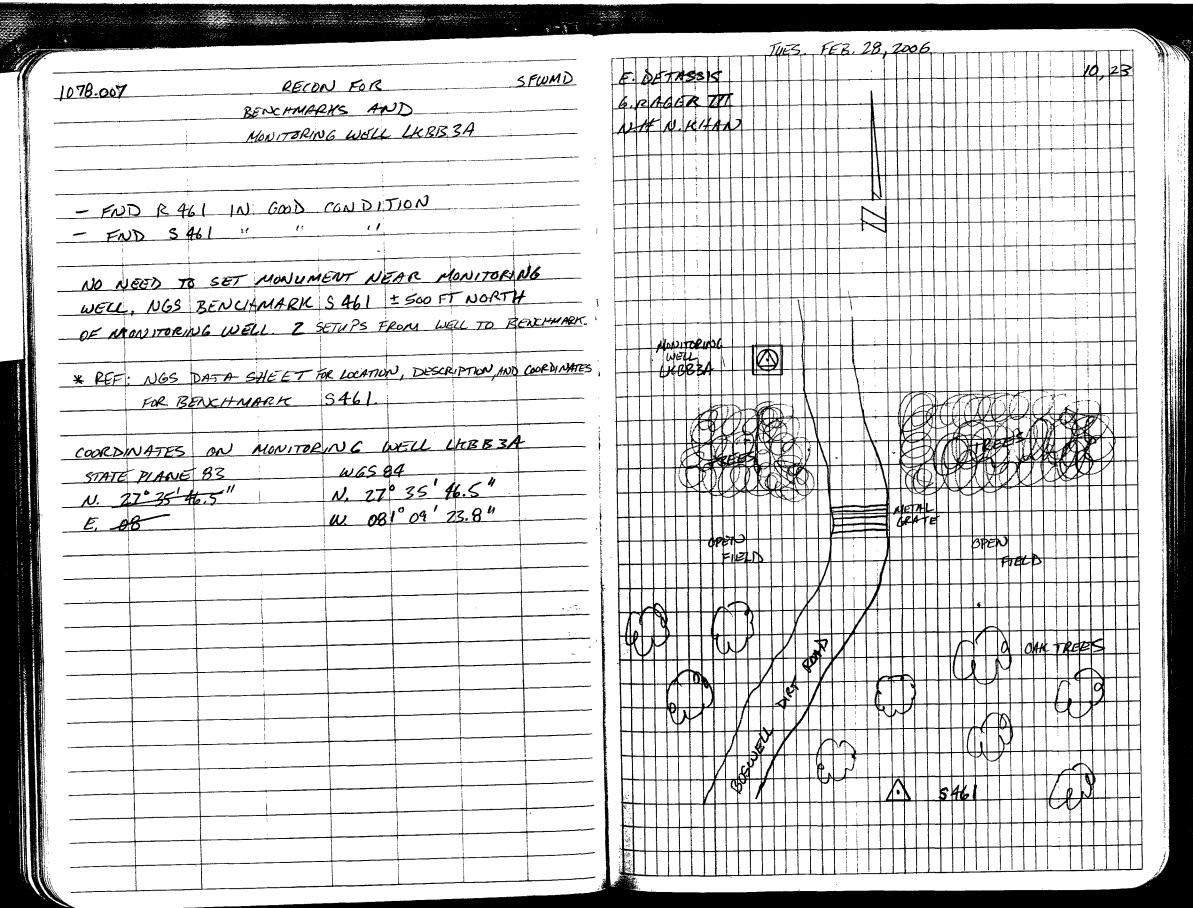
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	u u u	
	CONC. PAD SHOT I ZOFF WEST OF MICH.	
	RM MBDZC	
		a parameter
· ·		
	SHISK:	
	BALLEB DEC	
	SET IR. BY BARBED FRANCE	
	17 A1 Re 1 A1 A	
	SOT TR. BAN SOUTH STOP OF DIRT ROPS	3.4
	ck	
	SAV I'R ON GAST SADE OF SIG ROAD	
	4 4	
	PH NAV SAT ON SOUTH EP DE US 98	
	D.H. NAIL SET ON ABORTH & POF US 98	

				MON, FFB. 27, 2006
1.00			SFWMD	45 DETPS 15 10,2
1078.607	0 5/X 1	VEL RUN		HT EPRETORIAL
				water a little water and the l
	LKBD3C	-> V554		
	H.I.		EL	D.H. NAIL SET ON WORTH EP OF US 98
1.2982	14.4297	4.6.4		Ru V 554
[249]		Z.Z486	12.1812	
		27.5]		
				70744 3157: 1.10 KM
				TOCCAPUSE - 84 mm
				DEF - OBMM
:				╶ ┧┢┩┩╏┩┩╏╏╏╎╏╏╏╏╏╏╏╏╏╏╏╏╏╏
:				
	love	TO MONITORI	W6	
12		•		
- 25	WELL	LKBDSC		
			EL.	NESC.
	H.I.	:	16.00 (ASSUMED)	
6.23	12.23			GROUND SHOT IZ FT NORTH OF CONG. DAY OF MAN SHE
		6.13	16.10	CONC PAD SHOT TZET WEST OF MICH LIFEDSC
		5.63	16.60	
		1.86	20.37	1 TOP AF WELL CLEDSE
1.54	21.91			
	·	5:30	16.61	1 CONC. 1740 9401 I 2 FT WEST DE 14.CU 1948 DSC 1
		5.90	16.01	BMLARDSC
				[┡]
				<u></u> ┊ ┡╃╄╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╇╇╇╇╇╇╇╇╇ ┼
				▐ ▐ ▗▋ ╏╏╏╏╏╏╏╏╏╏╏╏╏╏╏╏
	1 i			▓ ▕░▊▃▐▗▕▗▐▗▎▗▊▗▍▗▋▗▋▗ ┠╌┠╌╂ ╶▊ ▄┡╌╂╌╟╸┼ ╒┆╏ ╶╫╌╫╌╃╌╂╌╀╌╃╌╃╌╀╌╀╌╀╌╀╌╀╌╂╌╂╌╏╌╏

					TUES. FEB. 2	0,006	
1078.007			SFWMD	F.D. 745515			1 1 1 1 1 1 2
mruse .	JEVEL	RUN FOR		G.RAGER III			
		BRING WELL	1	N.KHAN			
	1)	KBB3A		.			
	P461 -	→ 5461	:				
	7,121						
	H.T.		EL	DESG.			
1/155	17.9535		16.288 m	R461 BM			
1.6655 [68.5]	11.13-3	1.5547	16.3988				
160.01		65.5	-				
1 (023	18.0021						
1.6033	10.0061	1.1397	16.8624				
100.1		68.3					
1.5343	18.3967						
	10.3101	1.4061	16.9906				
1632		64.8					
15204	10 = 11				-		
1685	18.511	1.3939	17.1171				
/ 60.5		68.6					
17750	10 115 21						
1.3350	18.4521	1.4938	16,9583				
1684		68.4	1011233				
1127	10 201 8						
14377	18.3960	1.6020	16.794				
[64.9]		64.7					
1 717/	10 111/	10					
1.3176	18.1116	1.5671	16.5445				
[64.6]		65.0	I Van Paris Van				
1.2130	17,7575	1.7805	15.977	2001/800-0			
[66.8]			1011				
		66.0					
1.1892	17.1662	71070	4.9784				
68.6		2.1878	KY.7107		++++++++	++++++	1 1 1 1 1 1 1 1 1 1
		68.6	- There are		 	11111	<u> </u>

			TUES. TEB.28,2006	
LEVEL R	UN ONT'S	SFWMY	EDETAES &	10,2
B R	161 -> 5461		GRAGGE IT	
MONITORIN	16 WELL LKBB3	3A	With AN	
	<u> </u>	:		
				++++
4.7	-	EL	PESC.	
	1.9977	14.1374m	BM \$481	
	65.2	(4.141m)		
IGNET TO	MONITARING	WELL		
				1 1 1 1
Licish				
		EL.	DESC.	4444
			3nt \$ 464 m	
22.69	100		Con to his of set 1 > 100 the Monor of the	acel
-	1.00			BESA
22,93	/62	16.00	RN 9461	
	6,95	(0.00		
		E/	nesc.	
		, i		34
21,04	1-11	(-	* ~ 9	
	1			Fuere)
		7.000		
21.29		11. 98		OF CIEVI
				1111
	5.29	16.00	1 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
				1111
	-		▊ ┡ ╗┩┩┩┩┩┩┩┩	++++
	-		▋▓╅┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼	++++
			<u>▐</u>	++++
	#.T 16,1349	H.T. 16,1349 1,9977 65.Z LEVEL TO MONITORING LKBB 3 A H.T. 22,69 1,88 22,93 6,93 4,T. 21,04 4,76 4,29 0,90	### 1.00 (MSE 1.00) #### 1.00 (MSE 1.00) #### 1.00 (MSE 1.00) ##################################	LEWEL RUN CONT > SEMMY S



	ps / a marina and the	المستحدد المستحدد المستحدد المستحدد المستحدد المستحدد المستحد المستحدد المس		TUES, FEB. 28, 2006
1078.007			SFUMD	
101001	/FUFI	TO MONITOR		GRAGERIA
	WELL	LKBCIB		uxxon
+	H.T.		Ele	DESC.
5,35	21.35		16.00 (ASSUMED)	LKBCIB BN
		4,99	16.36	GROUND SHOT I Z.O SOUTH OF COUR. PAD
i i		4.65	16.70	CONC PAD SHOT 1.0' WEST OF M.W. CKBC13
		1.515	12.835	1 TOP OF WELL CRESCIB
F 1.19	21,025	·		
		4.325	16.70	CONC. PAX SHOT 1.0' WEST OF 11.00 LLRC &
: :		5.02	16,005	- LAUSCIB BAI
				╶ ┊┡┩╏╏┩╂╂┩╂╏┩╄╄╄╠┈╬╬╬╬╃╃╇╇╇╇╇╇╇╇╇
-:				-
				╶╵ ┡╎╏╒┩╏╒╇╎┇┋╏┋╒╒ ┼ ╒ ┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼
				╶╎ ┡┪╃╏┩╃╄╄╃╃╃╃┪┪ ╫ ╏┼╃╃╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇
				╼ [╎] ┡ ╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╇╇╇╇╇
				╌ ┡╂╂┩╃╊╊╃╃┞┧╃┼┼┼╎┧╏┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼
				╶┊ ┣╃╂╂╇╂╂╃╃┼┩┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼ ┼┼┼┼┼┼
				╶ ╠╂╂╂╂╂╂╂╂┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼
				╼ ╽╠╂╄╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╇╇╇╇╇
				╼ ╠╃╂╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╇╇╇
				╼ ╽┋┨╊╃┩╄╋╇╇╃╃╃┡┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼
				╼╎ ┡╉╃╃╃╇╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╇╇╇╇
				╼╎ ╠╂╄╂╋╋╋╇╃╃╃╃╃╃╃╃╃╇╇╇╇╇╇╇╇╇╇╇╇╇
				╼ ╿╠╂╂╄╃╋╇╄╄╃╃╬╄┼┼╂╂╂┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼
				╼ ┡╊╂╂╂╂╂╂╂╂╃╃╂╂┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼ ┼┼┼┼┼┼┼┼
				╼ ╟╬╄╠╂╉╣╋╄╇╃╃╃╃┼┼╃╃╠┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼
				╶ ┃╠╂╂╂╃╃╃╃╃╃╃╃╃╃╃╃╇╇╇╇╇╇
				╼ ┃┋╂╂┼╂╉╂╂╂╂╂┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼
				<u>~ </u>

	and the second s				WED. EEB MARCH	1, 2006	
1078.007	1 = 1 = 1	RUN FOR MONI	ORING SFUMD	EDETASSIS 01		10,	25
_10:10,001	WEUS	RIVACI & RI	1462	GRAGER OF T		The second secon	<u> </u>
	1			MKHAN 9 Z			-
	IKBDIB	-> KR 1357					
							
+	H.T.		El.	DESK.			++-
1.8814	11.7364		9.855 m	BM LKBDIB		1914h -211	+
18814		1.4758	10.2606 m	SET DOUBLE HER	DED ON WEST ET	PAAR PRAIC	
		[48,1]					+
1.3032	11.5638			u	Ge .	4	+
1.3032 2[69.6]	·	1.5 333	10.0305	4	4		++
		[69.6]		<u> </u>			11
1.4699 3.2 69.0	11.5004	1 10 - 1	10.190		4		11
369.0		1.4806	10.0198	1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	+++++++++++++++++++++++++++++++++++++++		11
		66.8		u	a		
1.6305	N.6503		10.978 9		·		\prod
4 [68.0]		0.6714	Will (
1		67.8		l w u	4	lep li	
0.7951 5[67.1]	И.7740	1.7885	9.9856	1 Lu La	4	4	
567.1		680	1:1000				
	11 0200	90.0		ula	er	//	1
1.24.75	U. 2280	12277	10.0003	uuu	L. Luciania		11
6[64.8]		65.8					11
1207	11.3074			4		4	4
1.307	11.50/7	1.1922	10.452			12	4
7 69.4		690					11
1.2506	11.3658			- a a		111111	11
10	11.320	1.3407	10.0251	- 4 4		11111111	-
8 68.1		67.8		- [
1.2657	11.2908			- 4 1 1 h 1 1 1 1 1 1 1		<u> </u>	
	1112100	1.7313	10.0595		11111111		+
9 [66-2]		66.3			 		++

1640 0.9	IENEL	RUN CON'T'D.	. 5	FWMD
1818.009	ILZ III	B -> KR 1357		
	ZABDI	.8		
		_	EL	
	H·T.		13	
65.9	11.338	1.1501	10.1786	-
[65.4]		1,1594	10.1106	
		165.1		
13952	11.5738			
[66.1]		1.5697	10.0041	
		68.44		
).3952 [663]	11.3993			
16/3		1.346A	10.0529	
Levis		66.8		
1.2896	N.3425			
[68.8]	- 1000	1.3862	9.9563	
100.0		67.9		
	11 077	7. 1		
1.6207	N.577	1/2/1	10.459	
[664		66.9	10,113	/
		06.1		
1.5057	11.6516	1.10.00	10.1707	
5 675		1.4809	10.110 1	
		64.7		
1.4496	11.6203			
6 11.9		1.4502	10.1702	Ĺ
		12.9	(10.162)
				
7771 70-	: 2.005 KM			
ľ	1			
	: 11.33 mm			
DIFF: 8.7	mm V			

EDETASIS & 1 MAMM & 2 GARAGER ATT DESE SET DOUBLE GEADED WALC ON USE SPOND MAMMARIAN M. M. M. M. M. M. M. M. M. M. M. M. M. M. M. M. M. M. M. M. M. M. M. M. M. M. M. M. M. M. M. M. M. M. M.		WED, MARC	4 1, 2006	
M. M	EDETASIS d			10,26
BRAGER WITT TO AND WASTES ON WASTES ON THE ON THE STANDARD WASTES ON	N MHAND & Z			
DESC DUBGE MEADED NAME ON MASS CTO ON MASSAME M. M				
SST DOUBLE AREADED WATCOM WASST LESS ON MANAGEMENT AND MANAGEMENT				
SST DOUBLE AREADED WATCOM WASST LESS ON MANAGEMENT AND MANAGEMENT	D# \$4			
		NA NATIC	and custo	4PON
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M M M M M M M M M M M M M M M M M M M		alla		
W W W W W W W W W W W W W W W W W W W				
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W W W W W W W W W W W W W W W W W W W		1 1 1 1 1 1 1 1		
BM AR 1357				
BM AR 1357	hall lall a	a	B	
BM KR 135'7		4 1 1 1 1 1 1 1 1	111111	
BM AR 1357				
BM AR 1357	u l l u l l	a	1	
	RM AR 1357	1, 2, 4, 7		

			otta, samanam (Prince Aminimum Agustum perintipa terumpa miningkan kepambahan (A. 1900) san kanpatan	- (111			WED. LEB.	MARCH 1, 2006	
1078.007	LOVEL	RUN FOR		F 24	748515				10,27
		eing well R	IVAC 1	6.24	SER III		111111		
Marie and Appropriate of the State of the St	KR 121	57 -> RIVAC	2	WA	you		+++++++++		
	703.2			_					
Annual Control of the Section of the	H.T.	-	<u>E</u>	Desc					
1.4076	11.5696		10.1620	BAI	KR 13	57			
[630]		1,3932	10.1764	SOT	DOUBL	E AC	ADED NAIL	an west or	or 144 mas
		[598]							
13710	11.5474			a		4		4	
[3710 [66.Z]	11.01.1	1.5695	9.9779	и		u		4	
100.6		[63.1]							+ + + + + + + + + + + + + + + + + + + +
1.4556	11.4335		:	4		u	a	1	
165.9	11.7.3	1.4813	9.9522			a	4	a)	
100.1		[69.0]							
1.5422	11.4944			И		u	CI	1.10	
658	11.7147	1.5619	9.9325		**	4	u	111111111111111111111111111111111111111	
100		69.1							
1.6026	11.5351			4		u	u		
7 4 4 7	11. 253 1	1.4708	10.0643			·ea	1	3	
[69.9]		[68.8]	10:0-13						
0.6359	10 7407	100.0				4	a l	1/	
	10.7002	1.6782	9.022	Sisv	DOUR		DED WALL	on south	P NO 837
[46.2]		46.0	11.02						
11550	10/77			_		27	a	2/	
1.6550	10.677	0.7472	9.9298			en l	1 4	10	
3 65.3		65.6	1.12.0		1111				
1.000	110-01			u		4	1	1	
1.9098	11.8396	1.7739	10.0657			4			
[69.7]			10.060		 				
73-0	11	69.8			 		d		
1.6729	11.7386		9.9671		600	1111			
15.6		17716	7.16/1		60D	7474 N	U GRAVEL 1		
		15.7			+++++	++++	+ + + + + + + + + + + + + + + + + + + +	++++++++	
,					+++++	++++	++++++++	++++++++++	++++++++++++++++++++++++++++++++++++
14114	CODE 22	k-1353	H.7022						

1078.007	LEVEL	RUN FOR	
	MONIT	DENG WELL	
	RI	UACZ	
	CONTID	HR 1357 -> A	PIVAC 2
	-	<u> </u>	!
<u></u>	H. T.		E/
17713	11,7384		9.9671
7[157]		1.7353	10,0031 m
		[15.7]	
TOTAL DIST	: 1085 KM		
	,		
	LEVEL	RUN	
	21VAC2 -	-> RIVAC 1	
+	H.I.		EL.
18256	11.8287		10.0037 M
8[15.7]		1.2662	10.5625
		[16.0]	w s
19395	12,502		
9 65.0	12,502	1.0816	11.4204
		L656	
1.7838	13-2042		
6 676	13420-10	1.8338	11.3704
101.0		67.1	
1.5711	12.94115		
67.1	16.1111	1.0695	11.872
2011-		67.0	u. biz
0.9075	10 000	[61.0]	
0.9075	12.7795	10/4/	N DIAG
4.67.11		10646	N.7149
2 7		L 68.o_	
2.0257 3[69.1]	13.7406	2.550	4400
3 64.1		2.258b	11.482

WED. MARCH 1,2006. 507 60 D 1/2 GRAVEZ 10/1/2 607 DUSCI BN DIVER Z DH. NAIL SET ON WEST & P OF N 80 TH DR. PH MAIL SET ON EAST & P. OF N BOTH DR.

1078.007	LEVE	L RUN CON	T.S	SFWMD
1010.007		1CZ -> RIV		
		1		
		,		
+	H.I.		EL	
1.4843	17.9663			
69.0		1.4780	11.4883	
		67.86		
67.4	13.2405			
67.4		0.9505	12.290	
:		69.1	-	
1.5920	13,8820		1.010	
65.7		1.0635	12.8185	
		167.6		
1.4031	14,2216	1/22		
69.1	<u> </u>	1.6735	12,5481	
		[68.7]	1	
0.7607	13,3088	101	1. CO 45	 1
[67.2]		27191	16.5897	
	11.70	[66.9]		
0.5823	11.172		9.1396	
134.0		2.0324 59.5	7.1316	
	1. 7001	197.5		
1.5885	10.7281	1/301	9.05	,
207.0		1.6181 612	- 1002	
. A/ A/2	16 5140	01.2		
14648	10.5148	1.8761	8.6386	M
1.8.0		7.3	0.6508	
		11.2		
	- 1/22/11			
TOTAL DIS	J: 1.639 KM			

WED	MARCH 1, 2006	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
E.DETASSIS		10,29
GRAGER TH		
6. RAGER TOT		
DESE		
DII. WAIL SET EAST E.P. O	F MIBOTH DR.	
	11	
11	"	
	71	
11	11 ///	
i la	16C	
	+,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	14	
┡╃╃╇╇╇╇╇╇╇╇╇╇╇╇	FREX	+++++++++++++++++++++++++++++++++++++++
FRON ROD SET IN BRASS		
		+++++
┖┖╏╽╽ ╀ ╏╏╏		+++++
	```	++++++
		++++
D.W. WALL SET FAST	EP OF ME SOT DR	
	┤┤╎┤┤┤┤┤┤ ┼ ╎┤┞┝ ┼	
<u> </u>	4	+++++
RVAE 1 BM		+++++
		+++++
		+++++
		+++++
1		
 		+++++

Opposition of the control of the con

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1078.007	LEV	EL EUN	SFRUMD
	1	21 > RIVAC	2
+	H,I.		<u>EZ</u>
	10.8048		8.6386 m
2.1662 42 [63]		1.6157	9.1891
		T 64]	
2.0454	11.2345		
43 [68]		0.5443	10.6902
		[59.1Z]	
2.6579 2.6578	13.3481		
44 [64]		0.76 0.8465	12.5016
47 [.67]		1667	
1-7/1	14.2560	1/00	
1.7544	1412300	1:4489	12.8071
45 [67]		[68]	10.001
12001		1601	
1.0506	13,8577	1.5525	12.3052
46 [67]	-		165006
		[68]	
0.9527	13.2679	. 770 4	11.4799
47 [64]		1.7786	11.4171
	2250	1 68 1	
1.4660	12.9459		40.177
48 [69]		1.4542	11.4917
		[68]	
2,2440	13.7367		
49 [67]		2.0076	11.7281
		E687	
1.0248	12.7529		
50[67]	-	0.9065	11.8464
		[67]	
4 = 0 111)			

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1078.007		EVEL RUN	SFWMZ
3			1
4	H.T.		EI.
1.1261	12.9725		
[67]	<u> </u>	1.6189	И. 3536
	<u> </u>	69	:
1.8347	13,1883		
2-[69]	·	1.7778	11.4105
:		[68]	
1.1048	12.5153		
3 [64]		1.8638	10.6515
	<u> </u>	[63]	
1.3368	11.9883		
4 [18]		2.0257	9.9626
		[77]	
1.8911	11.8537		
5[17]	-	1.8512	10.0023 m
		[17]	
TOTAL DIST	T: 1.667 KM		
TOL: 10:	1		
DIFF; 0	18 mm		

MARCH 1, 2006 WED. 10,31 1 RAGER ZZ \$ OF NW 80th 1 P 4 H uN 11 W u 4 u

<u> </u>				WED, MARCH 1, 2006
1078,007	1500	LAUN	SFWMD	EDETASSIS
	PIVAC 2	-> KR 1357		GRAGER III
				Nunan
	H.T.		EZ_	DUSC
1.8554	11.5585		10.0031 M	By Zivac 2
256 19		1.2099		SET DOUBLE HOADEN ON EAST EA OF NO
	1	19	10.6486	
1.2474	11.896			et u la
57 [65]		1.7796	·	SET DOUBLE HEADED ON SOUTH ATO OF
		[65]	10.1164	
0.7183	10.8347			10 41 71
58 [67]		1.7350	9.0997	
		[68]		
1.6673	10.767)	4 4 6
59 [61]		0.6623	10.1047	SET GOD AN WEST STOR OF 1444 TRAIL
		<i>[58]</i>		
14231				a in a
60 E67]		1.4841		
		E66]		
1.4342	H,5389			4 1 2
61 [67]		1.4867	10.0522	ic in the second
		[6]		
1.4800	11.5322			
62 [68]		1.5825	9,9497	
		(68)		
1,4590	11.4087			u c
63 E 687		1.3647	10,044	u u u u u u u u u u u u u u u u u u u
		[69]		
1,5480	11.592			Light State of the
64 C69 7		1.4473	10.1447	
		[697]		

10,32 WEDDA NW 83 TR

		and the state of t			
	1.60	EL RUN		E. DETASSIS WED. MAR. 1, 2006	
578/667			SFWMD	G. RAGER TI	10,33
0100/				Norm	
	RIVAR 2	> KR 1357			
1					
+	H.T.		FL	Desc.	
1.5029	11.6476				
[35]		1.5406	10.107	D.H. NANC SET IN COME. PARKING CO	
		[38]			
1.5225					
[17]	11.6295	1.467/	10.1624 M	KR1357 (10.162) TOTAL DIST:	
		[15]			: 18.28 mm
				DIFF:	0.4 mm
	,			ullet	
					+++++++
					++++++
					
					++++++
					
					
					
					+++++++
					
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					4114111
					4444444

078.007	LEVEL	TO MONITORING		SFWM)
		RIVAC Z		<u> </u>
	H.T.	_	EL	
1 5.09	21.09	**	16.00	(ASSIMED)
3.07	7.01	4.80	16.29	
		4.56	16.53	
		1.86	19.23	
		4.55	16.54	
		1.91	19./8	
1.66	20.84			
7,60		4,30	16.54	
		1.61	19.23	
		4.31	16,53	
		4.84	16.00	
	I FUEL TO MON	ITORING WELL	RIVAC 1	
	H.T.		EL.	
CAT	21.875		16.00	(ASSUME)
5.875	21.012	5.58	16.295	1
		5.319	16.56	
		2.46	19.415	
		5.43	16.445	
	4	2.53	19.345	
2.75	22.095			
6,15	12	5.65	16.445	-
		2.68	19.415	
		5.54	16.555	
		6.095	16.00	1
		0.41		

	THRU.	YARCH Z,	2006	
E. DETASSIS				10,34
6. RAGER 77				
N. MAA				
DESC				
CONC. DAD DISK LUTS	mer			
	Mac	{		
TOP OF EAST WELL				
CONT. PAB DISK WEST	WELL	++++		++++
TOP OF CEST WELL	+++++	++++++		11111
				
Conk. DAD \$751 DISK C	483V E	45//		
TOP OF EAST WELL	++++	$+\pm$		++++
CONC. PAN. DISK FRS	7 - 44	EC-		+++++
By River 2	++++	+++++		++++
	++++	+++++		++++
NESC.	++++	++++		
R ZIVACI	++++	++++		+++++
GROUND SPOT		+++++		++++
	ST WE	74	H + H + H + H + H + H + H + H + H + H +	+++++
of part of they	444	 		++++
111111111111111111111111111111111111111	457 4	VE44		
		+++++	H + H + H + H + H	++++
	++++	+++++		++++
	\$ 1 July	RZL	 	
TON OF EAST WELL	 	+++++		++++
PROJECT HAN NIGHT LA	27 20	ECC		++++
BM RIVAC 1		++++	++++++++++++++++++++++++++++++++++++	11111
				++++
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	++++	1		++++

-	Section 1			THRU, MARCH 2, 2006
107/ 4/7	1 = 115	L TO MONITOR	LING SFWMI)	EDETAS 15 10, 25
1078.007		LKBD3A		G.PAGER TO
	WELL	7.00.30		NICHAN
,				
	H.T.		EL.	DESC.
5.27	21.27		16.00 (ASSUMED)	BM LKBD3A
3.21	,	5.03	16.24	GROUND STOT
		4.55	16.72	CONC. DAD ANEST FDGE
i		0.565	70.765	TOP OF WELK
0.805	21.51			
0.007		4.80	16:71	CONC. PAD WEST ESGET
		5.51	16:00	BMAKEDEA
				
	LEVEL TO MA	ONITORING WELL	LKBDI A	
+	H.T.		EL	DESC
5.67	21.67		1600 (ASSUMED)	BARBDIA
		5.46	16:21	GROOD GROWD SHOT
		5.05	16.62	Cove PAD SOUTH EDGE
		1.09	20,58	DO GF AUGRA
1.295	21,875			
		5.25	16.625	
		5.87		EM LABORA
,				

1078.007	LEVE	I RUN FOR		SFUMD	· 4	4	£	14
	MONI	TORING WELL			1 1	1	e4.	7
		KBB3B				V.	KC	11
	;	56 -> LKBB3	B			_	$\downarrow \downarrow$	
<u> </u>	;	: - 			. -	+	+-	\perp
			B		4	4	4	_
1.8995	15.6135		13.7140		5-7		1	1
43.9		13816	14.2319		1	p	Δ	1
		45.9				_	11	_
18333	16.0652			·		1	11	
18333 2 67.5	1	1.2657 [67.5]	14.7995			(_
	16A767	L67.5	,					
16772	13,1263		15.0805		l	(1
3 69,1		1.3962	4.7261		Ų	T	\prod	
	1/ /007	69.1						T
1.608Z	16.6887		15,256		l		\prod	T
4[678]	177512	14378	14.8965				\prod	\top
14500	42.0	65.9	(4000)			1	\prod	
11721	16.7009			 			$\dagger \dagger$	十
66.6	+7,5763	14626	14 .883 9	3	H		$\dagger \dagger$	+
100.6		[68.5]	1000		H	\top	††	+
12027	16.62-1	1.00.3				+	1.	十
1.3827	13.2666	1.3418	16.279				+	十
· L67.7			14.9248				+	+
	16.7322 13,3778	649				5°°	+	+
1.4530	1373778		15.2717				+	+
7 [67.6]		4,05	11-9173			4	$\dashv \downarrow$	+
	16.8668	L671				+	4-1	
1.5951	13.51ZA		15.4504			11	$\downarrow \downarrow$	4
8 67.5		1.4164	12.046			<u>u</u>	$\perp \mid$	\perp
	16.9851	68.7	5				\coprod	\perp
1.5347	13-6307		15.4879					
9 678		1.5022	12-12-85					
		68.0		8			\prod	\int
							П	T

15.6

	THRUS	MARCH Z,	2006	
EAD ETASSIC				10.36
6 RAGER TH				
N. KHAN		-		
DASC				
1 -1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-				
BUUSSK SET	an S	OUTH SI	DE OF GRAS	STRAIL
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10		1/4		11
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	the state of the s			THRU. MARCH 2, 2006												
078,007			StumD:	E. DOTASSIS	10,37											
	LEVEL	RUN CONT'D		GIRAGER III												
1	11554	- LXBB3B		MEKAN												
	<i>井.王.</i>	_	FL	DESC												
1978			15.4815/1	60D NAIL SET ON SOUTH SIDE OF 6	RASS TRAIL											
4928	13.6213	1.4942	15.4815 m	KBB3B BM.												
12-1		48.5														
				$lackbox[-1]{h}{h}{h}{h}{h}{h}{h}{h}{h}{h}{h}{h}{h}{$												
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100000000000000000000000000000000000000	And the second s			THRU MARCH 2, 2006
h70 a. =	1505	RUN FOR MONIT	TORING STUMD	I CAMPBELL TO 10,38
1078.007		LKBB313		GRAGER III
	WELL	-> V 556		J.LRAGER
	U 356	7.500		
+	H.T	_	EL.	DESC
	15.059		13.714 M	BM (1556)
1.3450 [68.77]		1.7083	13.3507	
L 60.7A		[68.69]		IR SETON SIDE OF DIRTRO.
1.0622	14.412			
69.23	71:	1.5021	12.9108	
L61.83		69.33		
1.5658	14.4766			
69,7-7		1.5178	12.9588	
_0/,/-		69.75		
1.3241	14.2829			
69,88		1.6936	12.5893	
0,00		69.62		
2.4705	15.0598			
67.99		1.1786	13.8812	
		.68.20	·	
1.9086	15.7898			. ┃<u>┋┪╏╏╏┧╏</u>┟┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼
69.07		1.0650	14.7248	· ▐ ▗ <u>▊</u> ▃▃▃▃▃▃▃▃▃▃▃▃▃▃▃▃▃▃▃▃▃▃▃▃▃▃▃▃▃▃▃▃▃▃▃▃
3.5		68.84		
1.7762 1.8312	16.501			
53.22		1.0209	15.9801	
51.05		52.15		
1.0884	16.5685			
4.17		1,4095		
		3.93	15.1589 m	V556
			(15.165 m)	- * * * * * * * * * * * * * * * * * * *
				TOTAL DIST O. 94044KM
			, ,	701. 7.7mm
				A A A A A A A A A A A A A A A A A A A
			2	

	BENCH	Run		J. Szuraski	2-27-06	and the second s
	The state of the s			J.K. ROCK		
1078.007				Transpor		
	8555 -> KR	RPC20			. 45 - 1	
	BUSS		1			
+	H1		flev.	Dasa III		
			14.822m			
68.81	16,2032	1.2602		GOD NAIL SETONS.	SIDE OF	
108.814	100200	18.28	14.943			
1 111 7 0						
68.87	16.3568	1.4044				
10.81		69.22	14.9524			
1.2149						
69.22	16.2673	1.3400		- ' - - - - - - - - -		
01.00		69.51	14.9273	-		+++++++++++++++++++++++++++++++++++++++
1,3414						
69.36	16.21687	1.3649	154			
01.50		69.66	14.9038	-		┤┤┤┤╎╎╎╎ ┾╴
1.4803						
69.32	16,3841	1.281/				++++++++++
		68.66	15,103			++++++++++++
1.3940						++++++++++
68.52	16.497	1.3646	1 - 1701			
		69.13	15.1324			1-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
1.3108						+++++++++++++++++++++++++++++++++++++++
69.09	16.4432	1.3804	- 101			+++++++++++++
		69.65	15.0626			
1.3299						
68.67	16.3925	1.3776	15.0149			
		67.54	15,0141			
1.3762					4	
68.67	16.3911	1.3237	15.0674			
		68.84	13,0617			
		;		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
					<u> </u>	

	Pr	NCH RUN		J. Szwewski 2-27-06
	<u> DE</u>	WUT DYN		JL PAGER 11,2
1078.607				J. CAMPBELL
	D T F K	> KBRPC20 C	ONT.	
*	<u> </u>	NAMEZO	,	
	HI	_	ELEV.	DESC.
+	711			
1.3439	16.4113	1.3408	1	SET GOD NAIL ON S. SLOF OF
68.67	16, 1113	68.34	15.0705	
		Lytte		
1.3477	16.4182	1.33.54		
68.23	16.71 6 /	68,43	15,0828	
111/-				
1.46.54	16.5482	1.6298	,	KBRPG20
13.86	10.510	14.06	14.9184 m	Mala Mala
				Dita: O. Emm
				TOTAL 015T. 1.54268 KM
				TORRADE PAYMA
				· [
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	Bene	en Run		J. Szwiewski 2-27-06
1078.007			SEWMD	Ja Roser
				J. CAMPBELL
	KRR PC 20	7 LKBDBC	1	
		-	ELEV	DESC
+	<u> </u>		14.919 M	KRE PC 20
1.5582	16.4772	1.3125		
67.97	(6,7)16	67.76	15.1647	GOD WAN SET ON W SIDE OF DIRT RD
1 5050				
1.5051	16.6698	1.3154		
		69.26	15.3544	EAST
1.4003				<u>╴┡╫╫╼╀╫╫╫╬╗╫╫╼╫╫╫╫</u>
3 68.22	16.7547	1.3861		
		67.81	15.3686	┍╃╃╸╫╃╃╫╬╫╬╬╫╫╫╫╬╬╫╇╬╬╬╬
1.2440				
4 69.33	16.6126	1.3547	15.2579	
		69.70		
1.28%	10 (17)	12704		
5 68.13	16.5475	67.91	15.1769	
].4358		[07.71]		
6 69,12	16.6127	1,4530		
6 b 11 a	(0.0(2)	69.12	(5.1597)	
1.3059				
7 68.73	16,1656	1.3839		
		68.85	15.0817	
1.2994				
8 68.99	16.3811	1.3659		
		69.42	15,0152	
_1.3029				
9 67.88	16.3181	1.3453	111 5 7 2 7	
		68.16	14.9128	

	BEN	CHRUN		J.SZ	ULEWS	KI			7-2	7-0	6		1					-1
1078.007			SFWMD	11111	RAGER	1 1 1 1		+++	+++		+++		+	- 1	-	$+\Pi$, 4	-
				J. CA	MPBEL	L			+++	-++	111		1			++	+-	-
	KRRPC20 -	> LKBD 5C	CONT.		++++				+++	+++			+		-	+-		-
					+++				+++	-	-			-	$\dashv \dashv$	++		-
+	HI		ELEV.	DESC	44		-		+++-	+++	-		+			+	++-	
1.3556				·	+++-				+++				+-		-++	+	+	\dashv
0 67.86	16.3284	2.1080							+++-		++		-		-++	44	++-	\dashv
		67.33	14.22.04	600	NAIL S	ETON	EAST	SIDE	OF	DIF	BT A	3 <i>D</i> .	+-			<u> </u>	1	\dashv
0.7772									+++		- (++-		+	+ !		Н
68.78	14.9976	1.7031				1			11/2	, '		- - 	-				-	Н
		68.57	13.2945	2/			+		++-				+					Н
1.1622					-		-		+++			+	+			•		H
2 69.00	14.4567	1.5976			++++			+++	11/1/				++:			1	++-	H
=0,100		69.48	12.8591		444	1-1-1-			111			++	11	-+-		 i	+-	
1,3039				.	444		┡ ╂┼┼	+++	111	: 	- 	+	++-		\dashv	1:	+-	
13 44.72	14.163	1.40.33						1\1		111	444		111			+	++	
		44.01	12.7597	1111	1111			+++	1-11			-	444	4		++	+++	
1.2425								1	+++	+++	-		111		S 173	+-		
14 7.92	14.0627	1.6729		<u>, </u>	4444			111	1.11	111	11			4		- - -	 	
		10.13	12.3293 m	HAK	BD 50			444	111	$\downarrow \downarrow \downarrow$			111	+			++-	H
					4444					$\bot \downarrow \downarrow$			4-4-4	+		++	+-	
15	7.21				4444			444		OTA	4 01	57.	1.75	304	3 K	4	++	
					4444			+ + +	<u> </u>	Tola	RANC	€:	10.	59 m	m	++		
:					1.11			+++	444	$\downarrow\downarrow\downarrow$			11		$\left\{ \cdot \right\} \left\}$	++		H
16					4444			444	111-	111			444			+		-
.41							111	$\downarrow\downarrow\downarrow$	111	1-1-1			444		+++	+	+	Н
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	BENCH RUN		J. Szuckinski	2-27-06		
		Stumb		+ + + + + + + + + + + + + + + + + + + +		11,5
			JCAMPBELL	+++++++++++++++++++++++++++++++++++++++		
LKBD5	C > KRRPC 20					
HI		LEV	DESC-			
			ITBOSC MON,			
14.2865	1.3457					
	[67.36]	2.9408				
			60 D NAIC SET THE	EAST SIDE OF	PAUS A	655 PD.
14.703	1.1686					
	69.38	3,5344				
15.4076	0.662)		n.			-01
	67.89	1.7455				
16.4271	1.4897					1 1
	[68.51]	19374				
16.5258	1.4472					
	68.84	7,6786				
			M I I I I I I I I I I I I I I I I I I I			4/
16,5821	1.4462					
	68.53	1359				
						"
16.6383	1.4661					
	67.85	.1722				
16.7388	1.5421	`				
		5.1967				
16.7954	1.516					
		1988				
		1.10-0				+++++
						+++++
		14.2865 14.2865 15.4676 69.38 15.4076 69.38 16.4271 14.897 68.51 16.5258 1.4472 68.84 16.582 1.4462 66.53 16.7388 1.5421 16.7388 1.5421 16.7388 1.5421 16.7388	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	SEWAD J. PROSER J. CAMPRES J. CAMPRE		LK BD SC

At N

	B	ENCH KUN		J. SZULEWSKI	2-27-06	
1078.007			SFWMD	Ja PAGER		11,6
				J. Szuckausky		
	LKBD5C.	> KRR PC 2	2 (CONT.)			
+	н	_	£LEU	DESG		
		3				
1.5177	,		1			
68.06	16.8015	1.4604		GOD NAIL SET	ON FAST SIDE OF PAULD A	CCESS RD
		68.37	15.3411			
1.5425			;			
6902	16.8836	1.5640	<u> </u>			11
		68.87	15.3196			
1.4093			:			
67.84	16.7289	1.6214				
		67.57	15.1075			+++++++++++++++++++++++++++++++++++++++
1.4399				[+ + + + + + + + + + + + + + + + + + + +
45.21	16.5474	1.4261			┼┼┼╀╀╀╃┼┼┼┼┼┼┼┼┼	
		42.03	15,1213			4
1.3494		1 -110		╏┝╁┾╁┼┼┼┼┼┼┼┼		+++++
14.11	16.4707	1.5467				
<u></u>		12.93	14.924 m	KRR PC 20		0157 : 17:53214
				┠╂╂╂╂┼┼┼┼		10.59m
				<u>┃</u>	+++++++++++++++++++++++++++++++++++++	F: 5,0 mm
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1018,007	Be	NCH RUN	SFWMD	J.Sz. CEUSE!	02-28	y a washadan i i i i i ka kada.	1117
مستور د الله الماران	KR 1486 >	E 463		J CAMPBELL			
	11.		ELEV	DASE.			
1.4849	<u>H1</u> 14.2599	!	12775 M	DH NAIL SET ON	NORTH SIDE OF S.	e. 98	
85.25	14.2571	1.5094					
85.25		65.62	12.7505				
1.5459				,,	'//		
68.27	14.2964	1.4407	10.0.00				
		89.45	12.8557	(1			1
1.4447				//			
69.45	14.3004	1.4324				12111111	
		69.50	12.868				
1.4909							
69.14	14.3589	1.3841					
		68.72	12.9748				
1.5914					/)		
Street	14.5662	1.3990					
	4 1 2 2 2	67.73	13.1672				
1.7012							
69.24	14.8684	1.3833	7	1,			
101.01	144,000	68.42	13.485	34 34 34 54			-
14679					4		
68.18	14.953	1.4522					
00.70	11.03	68.66	13.5008				
12050							
1.5059	15.0067	1.5454					
68.38	12,006	68.26	13.4613				
1.4742							
67.93	14.9365	1.4716					
100.03		68.01	13.4639				
			4				
					<u></u>		

****				J. Szuckyski 2-28-06	
	BENCH	RUN			
1078.007			SFWMD	J.K. RAGER 111, 8	+
			1	Janosea	
	KR 1486 .	7 6463		▕▐▐▗ 	+
1				┡╃╧┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋	
+	HI		ELEV	Dese	+-
1.5357				SET DA, NAIL ON WORTH SIDE OF SR. 98	-
69.50	14.9996	1.5546			+-
		69.24]	13.445		-
1.5612					
21.29	15.0062	1,4934			+-!
		[22.11]	13,5128		
1.4414				\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	4
[21.48]	14.9542	1.9937			44
- / -		22.44	12.9605 M	BM E463 (2.956)	+-
					4-1
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				Towerack: 7.65mm	4-1
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1078.007			SFumD	1 1	1	1 1	1601	1 1 1	11				•			* ·			-		11)	9 : .
The second secon					J. C	zm	PBE	144	·		m. •	<u> </u>	•						^			
1.P	E463 -	LKBCIB			 		+				~ ~ ~		4						-14 -			
57. 5. 5. 7.	11.4		ELEV.	• +	De	:50	 	+++			, ,		+	 -		am yan	•					+ +
1.8133	<u> </u>	1	12.956 M			63		ili		The second second					engamenta in					an amendere		
[59.86]	1// 7/02	1.6/88									1				tok a somigerary		-			-		
L37.784	14.7693	[60.74]	13.1505					; !L					,				tennet sur		v =u			. 1
1.5418.					SE	7	50 1	n/A	11	ON	EA	ST S	IDE	OF	SA	NOI	1/2/	۲,	RAN	= = 0	RIV	E
67.86	14.6823	1.4852_	:	'	-		<u> </u>				` '											
[07.00]) II OIAS	66,92	13.2071		-																	
1.5005						"	. !				;		′/					erroter weapon	- I has bleshon		 -	.:
69.25	14.7076	1.3943		11	<u> </u>		11	4			11.	! 1										
L27,23.	7777 2 2	68,68	13.3/33		1:	-	· 	,	·				+		: : 			; 				
1.3493			·		1:	11	++-		•• ••				//	• • • •	· ,	1	- -	+ :	1:		. 1	<u> </u>
66.16	14.6626	1.2945	- ,	ž .	 -		44		 				4-4-	.		 - 		1:	1			44
		66.68	13.3681	1			+-		- -				11	 	-		44	11	+			4
1.3848						//	+-				+			+				++		+	<u>:</u> :	44
67.13	14.7529	1,4259			} 		+		1 1		11-	1	+-	 			++	+				++
		67.50	13.3270			+++		++	+++			++	++	 			++	++	++-	\dashv	+	++
1.3163							+		++	++	++.		11	++-			-+-	++	++-	+	1	#
69.85	14.6433	1.6589				++	++	+		+		++	+	+	Te	TAL	1 1	1 1	1 1	823	1	7 1
		69.13	12.9844			++	+++	++	+++	++	+++	+	+	1-1-			Tol	GRA	CE :	7.2	bor	h
1.4308		1 5 40 4				+	++	++-	+++		+++	++	41	++-			+	++		++	4	++-
8.31	14.4152	1.5121				+	+++	++		++	+++	++	++				+	++	++-	+	+	++
		5.39	12.903/			++	+++	++-		++		+	++-			-	++	++	++-	++		-
1.5874		17170				م م	В	+		-		++	++-			+	++	++	++-	+	++	+
5.38	14.4905	5.37	12,7726 M			130	13	m	. بره		+++		++			++	++	++	++-	++	-	+
		13,3/	12,1120 1			+	+++	++-			+++	++	++-	+		++	++	+		-		
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	Be	wed Run		J. Szucewski	2-28-06	
1078.007			SEWMD	J. Anger	+++++++++++++++++++++++++++++++++++++++	44
	LKBCI	B -> E463		J. Composeic		
						
+	<u> </u>		FLEN	Desc.	 	
1.8564			12.7726 M			
69.59	14.6290	1.4754		LKBCIB MON.		
		69.33	13.1536			
1.6396				SET 600 NAIL 0	N EAST SIDE OF SONS	HILL CRANE PD.
69.66	14.7932	1.4046				
		[69.85]	13.388h			
1.3643						10
69.11	14.7529	1.4383	•			
		69.04	13.3/46			
1.4211						
69.89	14.7357	1.5303				
	i	69.38	13.20.54			
1.5439		1				
69.70	14.7493	1.5534				
		69.71	13.1959			
1.5624			· · · · · · · · · · · · · · · · · · ·	£463 (2956)		
58.48	14. 7583	1,8058		ž.		
		[61.50]	+29545 12.9525A			
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		SENCY KUN	Shamo	JL. Prese		11,11
1078.007	VO HUU	> KR 1746		JCAMPBELL		
	NA III					
+	Н		FLEV	DESE		
1.49/4		,	12,505 M	KR 1744		
67.80	13,9964	1.3721	12.6243			
		67.61	16.6513			
1.3760			1			
69.32	14.0003	1.2871	12,7132	DH NAU SET	TON EAST SIDE OF S.R. 721	
-		69,45	61136	- KM1 / 1884 - SF-1		
1.5652	W 2004	1.3450				
69.39	14.2284	69.52	12,9334		<u> </u>	
		Disa				
1.5739	w ~~72	1.3922				
67.47	14.5073	67.31	13.1151		<u> </u>	
			· Committee of the comm			
69.29	14.6681	1.4237			<u></u>	
67.41	11.000	69.43	13.2444			
					┸╃╀╀╀╀┼┼┼┼┼┼┼┼┼┼┼┼┼┼	
1.4902	14.7346	1.4679	`		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
100.23		68.81	13.2667			
14.17						
1.461Z 69.59	14.7284	1.4716			/	
L-D-Fort		-68.89	13.2568			
1.4672					╶╏╏ ┩╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫	
68.95	14.724	1.4587			╒ ╃┼┼┼┼┼┼┼ ╎╎ ┼ ╠ ┼┼┼┼┼┼┼┼┼┼	
		68.89	13.265-3		╌┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼	
					╶┠┠╏╏╏╏	
69.75	14,7026	1.4477			┍╆┼┼┼┼┼┼┼┼┼┼┼	
		69.67	13.2549		╶┠┞ ┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼	
1.4315					╶┠╄┢┢┞┪╣╏╏╏╏╏	
68.98	14.6864	1.5004	· · · ·		╭ ╁┼┼┼┼┼┼┼ ╎╎╎	
		69.20	13,186			

	BEN	CH RUN		J. SZULEWSK/	2-28-06	
	DEN	UII E UN	SEWMD	J. CAMPBELL		N.
1078.001	V D 17	> V D I > III		J.L. RAGER		
	KK1/44 -	-> KR1746				
	111	- 1	ELEY	DESC.		
+	H.I.					
1.4421	14.6281	1.5543				
68,97	17.6201	69.58	13,0738	DH. NAIL SET ON EAST	SIDE OF S.R. 721	
1.2172	14.291	2.0035				
47.45	19061	50,45	12.2875.M	-KR1746		
					TOTAL DIS	ST. 1.61401 KM
					Tout	PRANCE: 10.16 mm
					<u> </u>	
					 	
					 	
					 	
						
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8.01	3,∞7			Stamb		L. RA		 				, ,		<u> </u>	r - gran rafemenagemen	11,	, 13
	and a second or the second and the s	KR 1744 -	> Q553		_J_	Com	PBEL	<u>, </u>			-: -!-	<u> </u>				· -	+ :
							· · · ·	 				•	· · · · · · ·	+		(- (· · · ·
*	+	HI		ELEV	- 1	ESC			+		+++	• • • • • •	· · · · · · · · · · · · · · · · · · ·	- 	- 		++-
(B)	774	14.0824		12.505 M	KK	174	14)			Apparent and the second				+			4
69	1.64		1.4978		+++	·	· · · ·	 		<u> </u>	 			+++			+ + + +
			69.41	12,5846	D. A	1. NAI	c 5	TON	WE	ST	SIDE	oF.	C.F	7;	2 1		; ; ;
	571				-			+		·	<u> </u>		: 				1 :
69	28	14.0417	10954	12.9463		**************************************		+	;	· ·	+ +		1	ļ .	· · · · · · · · · · · · · · · · · · ·		
			6892	!	1	: 		ļ ·			ļ : .		-	· · ·		// : 	
1.6	122	14.5585		1				 					· -			-	<u>; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; </u>
	3.34		1.8400	12.7185		-		 		1	+		<u> </u>	1 1	· · · · · · · · · · · · · · · · · · ·		<u> </u>
			68.04						;	<u> </u>	<u> </u>	,	ļ	111	; , , , , , , , , , , , , , , , , , , ,	"	
0.9	646	13,6831						 		! 		· · ·					
69	2.25		1.5492	12.1339							11:						
			69.09					111								er	
1,4	556	13.5895		,		_											
A	08		1.5286	12.0609													
			69.11						-	3						4	
1.3	952	13.4561															
	65]		1.5381	11,918													
			68.21		N N										1		
1.42	239	13.3419												1			
	6.57		1.3978	11.9441													
			68.60												1	-	
<u> </u>	964	13.4405															\prod
	964)		T.3775	12,063	3												
			69.43		14	- -									1/2		
1	914	13.6544														111	
1 168	8.30]	12.02	- 1.4787	12.1757		12.0							Π^+			111	-
			69.59												1/	111	1
1,4	1051	13,5608									111	751	7 5	ST	12982	18 18	
	32	15,500	19420			553	S (11	641)			711) CF		1 1 1		
	300		27.82	11,6388 M							111	1 1 1		4			1
				1110500 4·1		i.		<u> </u>		 .			-1-1-	1_1_1_	1 1 1 1		لسئد

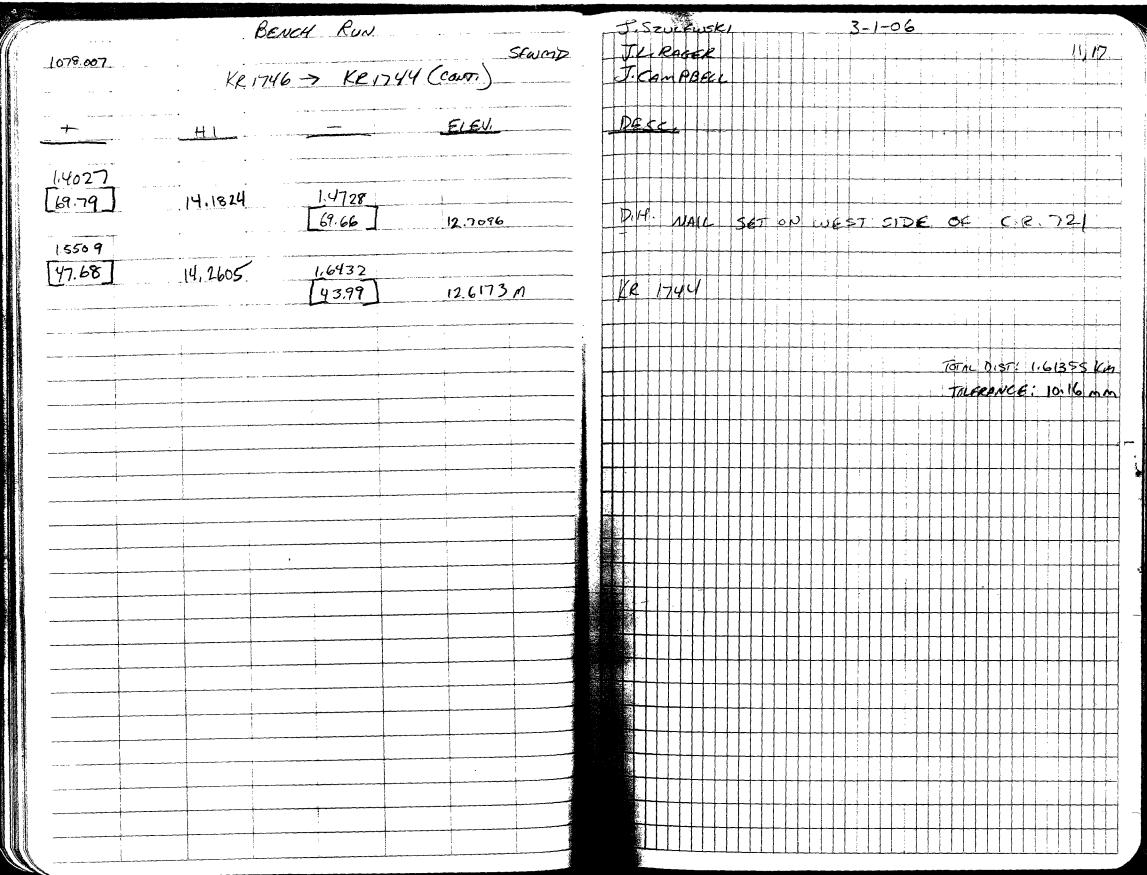
	BENG	H RIN	-	J.52 VIEWSKI 03-01-06
078.007			SFWMD	J.A. RAGER
	KR 1744 ->	LKBDIA		J. CAMPBELL
<u> </u>	#1		ELEY.	DESC.
.6533	14,1583		12.505 M	KR 1244
88.86	13612	1.5750		
		68.97	12.5833	D.H WAIL SET ON WEST SIDE OF CR 721
1.5161				
68.87	14.0994	1.1773		
		68.17	12.9221	
1.6381				690 NALL SET ON SOUTH SING OF LOWELLED RIV
68.85	14.5602	2.850	11. = 4.	BOU NALL SET ON SOUTH SIDE OF WHEELER RY
		68.84	11.7101	
1.3144		1.50.0		
69.11	13.0245	1.5908	11.4337	
		68.63	114931	
1.4023		1.6160		▋ ┡╃╂╂┲╂╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫
69.27	12.836	69.76	11.22	
1/2/9				
69.63	12.8518	1.7767		
61.63	12.03.10	69.30	11.075]	
15/26				
1577	12.6377	1,5911		
		1683	110466	
1,5320				
16.83	12.5786	1.7838		14 mou.
		17.32	10.7948 M	Tatal Dest: 0.895036
				Touckence:
			,	
			'	

	BENCH	1 RUN		J. Szur 1-06	_
1078.007			Stward	J.C. RAGER	11,15
		140	.1.	J. Can PBEU	
		1 -> KR 104	FIEN	DESC	-1
+	<u>H1</u>	· · · · · · · · · · · · · · · · · · ·	10.7948 M	LKBDIA	
1.8082	10 102	1,3712	1017710-76		1
66.75]	12.603	68.45	11.2318	600 NAIL SET ON NORTH SIDE OF WHEREAR	ED,
1.5059					
69.36	12.7377	1.4234			d an ann annanchaidh ann an h- ann agair baga baga d
0. 30]		69.16	11.3143		
1,6857					ALL PROPERTY IN APPLICATION OF THE
69.81	13.0000	1.4810			
		69.55	11.519		
2.4264					-
69.30	13.9454	6.9072	13 03 40	DIH. NAVI SET ON EAST SIDE OF CR	
		69.48	13.0382	DIH. NAIL SET ON EAST SIDE OF C.R	121
1.1786	110119	1.6552			
69.66	14.2168	69.44	12.5616		
1					
1.5259	14.0875	1.4956			
20.70	(110)	69.81	12.5919	IN NAIL SET ON WEST SIDE OF CR	72/
1.5423					
12.52	14.1342	1.52 68	- Ay		
		14.95	12.6074		
1.4179					
14.90	14.0253	1.5238			
		14,97	12,5015 M	1744 (12 Sp5) TOTAL DIST: 0,88881/6	
				DUPE: 3.5 m	
				The state of the s	

_		BENC	H RUN		J. Szuckostel	3-1-06	,
	078.007			SCWAID			1116
		KR1746	7 KR 1744		Jampsey		
_							
_	+	41		ELEV.	Desc		
_	2.0888			12.396 M	. KR 1746		
	69.68	14.484 8	1.2893				
_			[69.57]	13,1955	DIE WALL SET ON W	ofst side of a	C.R.72
r	1,5218						
Į	68.09	14,7173	1.4139				
_			68.44	13.3034			ų
7	1.5071	1		!			
÷.	69.07	14.8105	1.4761	12 22.41			
			68.76	13.3344	3.70		
7	1.4502						
l	69.80	14.7846	69.84	13.3542			
-	144		67.89	13.3372			
۲	1.4601		1.4487				-+++++++
l	68.67	14.8143	68.53	13.3656			
-	11116		10000	73.3636			
ſ	1.4158 69.6 4	14,7814	1.4158				
Ŀ	0 116 1	14 (017	69.30	13.3656			40
	1,4365		01.33				
į	6962	14.8021	1.4388	30.0			
!	~ ~ ~ ~	10000	69.34	13.3633			
	1,3329						
	69.81	14.6962	1.5379				
			[69.61]	13.1583			4
	1.3423						
	68.07	14.5006	1.5158				
			69.01	12.9848			1)
	1.3267						
	68.51	14,3115	1.5318			444444444444444444444444444444444444444	
À			80.83	12.7797			

1. 心事推定性

村生 增



	A.	ENCH RUN	5200 WSK1 3-1-06	
		SCWM)		11,18
1078.007			J. Campseu	
	V	11 > 148/20		
		6 -> LKBD3A	DESC	
+	H.L.	ELEV	KR 1746	
1.8855		12.2875 M		
68.10	14.173	1.7268	IRON ROD SET W OPEN FIELD	
		68.16 12.4462	TADA COB TITY DO TOTAL TELE	
1.2188				
69.58	13.665	1.6630		
		68.18 12,002	IRON ROD SET IN SPEN FIELD	
1,6363			·┃ ┃┤┤┤┃┆╸╻┦┦╏ ┋┼┼┼ ┈	++++
[68.19]	13.6383	1,7634	TRON ROD SET ON NORTH SIDE OF DIRT TR	
		(8.32) 11.8749	╶ ┃ ╏┤┊╏╏╏╏╏╏╏	
0.8605			╶ ┃┡╃╂╄╏┩╃╀╃╃╃╃╃╃╃┿┈┈┊┼┈┼╍┼┊┊╸╌┼┼┼┼┼┼┼┼ ┼┼┼┼	
[60.03]	12.7354	2.0690	╸┫ ╞┩╅╄╏┩┧┼┪┩┧ ┼╃┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼	
	1=:-	59.71 10.6664	- │ 	
1.2907			╶ ╽┝╏╏╏╏╏╏╏╏╏╏╏╏┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼	
51.78	11.7571	1.5388	<u>- ┃┡┹┹┺┸┹┹┸╃╃╃╃</u>	+++++
L211/04	11/19/1	50.38 10.4183		
1.5283			_	
1323	11,9466	1.6052	<u>▐▐▊▋▋▋▋▋▋▋</u>	
	11,(196	39.25 10.3414		11111
170//				
1.7866	12.128	1.7517		4444
69.53	12.128	69.63 10.3763		
1 1122		1000		<u> </u>
1.4337	11.8	1,5938		
[3.7]]	(1.8/		LICBD34 man. ToTAL DIST: 0,8	5842 Km
		3.71 10.2162 M		
[3.7]_				
	!			
The second secon				11111
			▗ 	++++
			▊ █████ ▊▐▐▋▋▐▐▋▍▋▋▋▋▋ ▊█	++++
				<u> </u>

	BENC	H RUN		J.Szuruski	3-1-06	
78.007	1		SEWMD	J.4. RAGER		11,19
	LKBD3A ->	KRIHG		J. CAMPBECL		
					+	
+	H.1.		ELEVE	DESC		
.7999		· · · · · · · · · · · · · · · · · · ·	10.2162 M	UCBD3A MON.		<u> </u>
6.36	12,0161	1.6141				
		66.05	10.402	IRON ROD SET	OUL WORTH SIDE OF SK	TRAIL
5355						
54.20	11.9375	1.4825				
		52.54	10.455	IRON ROD SET	ON NORTH SIDE OF DIR	TRAI
5960						
59.97	12.051	0.9889				
		57.27	11.6621		+++++++++++++++++++++++++++++++++++++++	1
2,0719				 		
58.42	13.134	1.2611				
		57.98	11.8729			(1)
.8389						
68.12	13.7118	16793				11414
		67.73.	12.0325	IPPON ROD SET	N DIEN FIELD	
1.6580						
69.22	13.6905	1,3019				
		69.15	12.3886			
,8805		1.600				
42.92	14.2691	1.6115			+++++++++++++++++++++++++++++++++++++++	14411
		42.76	12.6576			-
15612		1.9317				++++
7,31	14.2188		12.2871 M	2 746 - 2.2875		++++
		12,58	12,2868	2 746 (12.2875)	15141 051 0	85460 K
					Talebuce:	, , , , ,
					DIFF.	3.4mm
					+++++++++++++++++++++++++++++++++++++++	++++
		-			┼┼┼╃╃╧╃┼╁┼┼┼┼┼┼┼┼	++++
					+++++++++++++++++++++++++++++++++++++++	++++

		BENCH	RUN	and the state of t	J. Szucfasski 3-2-00	
(li —		- VENCE		SEWMB	J. C. Raged	11/20
	75.007				T Samples	
_		1110000	- 11571		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
_		LKBBSB	-> U556			
				ELEV		
- 1	+	1.1.		15.4815 M	LKBB3B MON	╸┊┆╒╒┆╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒
185 (S) 20 -	1.2706	16.7521	1.2670	15.70(5)		
	68.91	,	[69,41]	15.4851		
_			[67,7]]	13,7831		
	1.2792	16.7643		· · · · · · · · · · · · · · · · · · ·		┊ ╌╌╌┼╌┈┼┼╁╂┼┼┼┧
	69.48		1.3563	15.408:		
			68.89			
	1.3580	16.766	1000			
	68.84		1.4555	15.3105		
			69.45			
	1.4452	16.7557				
11 7	69.77		1.6989	15.0568		
			69.89			<u> </u>
	1.6406	16.6974		•		
	68.94		1.4970	15.2004		
ا ا	80.72		69.90			
11 -	1.4529	16.6533				
11 1	69.83	1040	1.6148	15.0385	tota	4 DIST: 1.26 395 15M
	67.00		[69.78]			TOLERANCE: 9 mm
	(4170	16.4565				DIFF: O.Sman
	69.53	10,1003	1.5251	14,9314		
	69.33		69.34			
M		16.2376				
	1.3062	16,6110	1.7853	14.4523		
	69.54		69.87	11.65==		
			101.01			
	1.2952	15.7475	1.7254	14.0221		
	69.52			11:025		
			69.52			╒┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋
	1.351/	15.3732		13.7135 m		╶┊┊┊┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋
	7.90		[7.63]	13,713 m		

	Be	ENCH RUN		J. Szurkuski 3-2-06
1078067			and the second s	E DETASSIS 11, 2
			The second secon	h. ctran
	ELEVATE TWO	o MON TORNG	WELLS	
	CLKB B3B			
		Annald A To a management of the state of the		· ┠╋╋╂╂╂┼┼┼
	<u> </u>		FLEV.	AKBB 3B CONE MON.
4.99	20.99	100	16.00 (ASSUMED)	
		4.92	16.07	GROW'S SHOT
		4.64	16.35	CONG DAD BRASE DISK WEST WELL
		1.84	19, 15	TOP OF CHEST WELL
:		4.62	16.37	CONC. PAD BRASS DISK
	- 44	\$ 2.02	18.97	TOP OF WELL SAST WELL
2.47	21.44		1/27	
		5.07	16.37	CONC. PAD BRASS DEM PAST CUEU.
		2.29	19.15	TOP OF GUEL WEST WELL
		5.09	16.35	COVE. PAD BERSS DISK WEST WELL
		5.43	16.01	LATERB B B CONF. LOW.
			**	
				▊ ▓ ░▊▗▊▗▍ ▞▗▘ ▗ ▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗
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U.S DEPARTMENT OF COMMERCE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL GEODETIC SURVEY

Charles W. Challstrom
Director

PROJECT REPORT
Second Order Class II Leveling and Mark Setting

February 2006 to March 2006

Ronnie L. Taylor

National Geodetic Survey, NOAA National Ocean Service Advisor, Florida

PROJECT TITLE

Kissimmee River Wells

LINE TITLE FOR **L26803**

ESTABLISH BENCH MARKS NEAR WELLS IN HIGHLANDS AND OKEECHOBEE COUNTIES

STARTING HEIGHT IS BASED ON NAVD 88 HEIGHTS.

NOTE: COLLIMATION STORED IN ELECTRONIC INSTRUMENT.

NOTE: LATITUDE AND LONGITUDE WAS OBTAINED FROM

SUB-METER GPS OBSERVATIONS.

JOB CODE **AA**



PROJECT REPORT

I. <u>INTRODUCTION</u>

A. Authority

Bench Mark Setting and Leveling along this level route was authorized by a contract between the SUTRON Corporation and Nick Miller Incorporated.

B. Purpose

The purpose of this leveling project was to establish precise NAVD 88 heights near existing Ground Water Monitoring Wells for use by the South Florida Water Management District and the citizens of the State of Florida.

II. PROJECT AREA

A. Locality

This project is located in Highlands County and Okeechobee County, Florida.

B. Terrain

The terrain is flat to rolling.

C. Specifications

FGCS Specifications and Procedures to Incorporate Electronic Digital/Bar-Code Leveling Systems were followed.

D. Monumentation

Monuments are set in concrete with a South Florida Water Management survey disk. A Magnetic device was either placed in or near the monuments. Please see descriptions for magnetic placements.

E. Instrumentation

Two LEICA DNA03 Electronic Digital Level Instruments were used along with two sets of LEICA Digital/Bar-Code Leveling Rods.



III. COMMENTS

A. Reconnaissance

See the To-Reach Descriptions included, for a clear access to all L26803 Stations.

B. Specifications

There were no deviations from the FGCS Specifications and Procedures to Incorporate Electronic Digital/Bar-Code Leveling Systems.

C. Route

The leveling route varied for each leveling part.

STARTING ELEVATION BASED ON NAVD 88 HEIGHTS PUBLISHED FROM THE NGS DATABASE. NOTE: COLLIMATION STORED IN ELECTRONIC INSTRUMENT. NOTE: LATITUDE AND LONGITUDE WAS DERIVED FROM NGS DATA SHEETS AND GPS SUB-METER OBSERVATIONS

These are all new second order, class 2 level runs by Nick Miller, Inc.

D. Problems

A different elevation was found for monument KR 1746 (AH9316) than what is published. The published elevation is 12.396 meters (NAVD 88). A level route was ran from Q 553 to KR 1744 and then from KR 1744 to KR 1746. The elevation difference between Q 553 and KR 1744 agreed with the published data. The results from the leveling data show the elevation of KR 1746 to be 12.288 meters (NAVD 88), which is 108 mm below the published elevation.



IV. Closures

Loop closures were computed and are included in the package for L26803.

A. Status

All records will be kept at Nick Miller, Inc. For information on these records please contact Stephen M. Gordon at (561)627-5200.

For question concerning the collection or processing of this data please call Ronnie L. Taylor or Randy Wegner at (850)245-2606.

B. Attachments

The following are included in this package:

Hardcopy of the ABS & BOK files and Quad Maps

Disk containing the following data files is attached to the front of the folder containing the ABS, and BOK Files:

- DSC
- BLU
- HGZ
- ABS
- BOK
- LST RAW
- BACKUP.GSI
- BACKUP.RAW (RAW DATA UNTOUCHED)
- PHOTO'S
- LST