

Identification Information:

Citation:

Citation Information:

**Darren Townsend
Cooner & Associates**

Originator: Darren Townsend(ed.)
Publication Date: 20050518
Publication Time: Unknown
Title: S. F. W. M. D. Well Sni vel y' s Ranch
Series Information:
Publication Information:
Publication Place: 20050518
Publisher: None
Online Linkage: darrent@cooner.com
Larger Work Citation:
Citation Information:
Series Information:
Publication Information:

Description:

Abstract:

South Florida Water Management District
Well Sni vel y' s Ranch

Purpose

Purpose:

To establish NAVD 88 and NGVD 29 elevations on the
wells reference marks from nearby, existing benchmarks.

Supplemental Information:

ACCOMPANYING DIGITAL FILES
SNI VLYS. GEN , CORPSMET95 FILE
SNI VLYS. DOC , BENCHMARK RECOVERY FORM
SNI VLYS. PDF , SCANNED COPIES OF FIELD NOTES,
VERTCON CALCULATIONS (IF APPLICABLE)
AND LEAST SQUARES ADJUSTMENT
SNI VLYS. PPT , POWER POINT FILES OF WELL SITE
PICTURES

Time Period of Content:

Time Period Information:

Survey Date

Single Date/Time:

Range of Dates/Times:

Beginning Date: 20050329

Ending Date: 20050329

Multiple Dates/Times:

Currentness Reference: Publication Date

Status:

Progress: Complete

Maintenance and Update Frequency: Unknown

Spatial Domain:

Bounding Coordinates:

West Bounding Coordinate: -081° 25' 03. 45"

East Bounding Coordinate: -081° 25' 03. 42"

North Bounding Coordinate: +27° 58' 16. 60"

South Bounding Coordinate: +27° 58' 16. 56"

Keywords:

Theme:

Theme Keyword Thesaurus: None

Theme Keyword: Record Survey

Theme Keyword: Well Site

Place:

Place Keyword Thesaurus: None

Place Keyword: SWFMD WELL SNI VELY' S RANCH

Place Keyword: SEC. 9, TWP 29 S, RGE 29 E

Place Keyword: POLK COUNTY FLORIDA

Stratum:

Temporal:

Access Constraints: None

Use Constraints:

The wells have keyed or combination locks.

See point of contact for key or combination.

Point of Contact:

Contact Information:

**Elvie Ebanks
SFWMD**

Contact Person Primary:

Contact Person: Elvie D. Ebanks

Contact Organization: South Florida Water Management

District

Contact_Organization_Primary:
 Contact_Position: Professional Surveyor & Mapper
 Contact_Address:
 Address_Type: mailing and physical address
 Address: 3301 Gun Club Road
 City: West Palm Beach
 State_or_Province: Florida
 Postal_Code: 33406
 Country: USA
 Contact_Voice_Telephone: (561) 753-2400, Ext. 4717
 Contact_Electronic_Mail_Address: eebanks@sfwmd.gov
 Hours_of_Service: 8:00 am to 5:00 pm EST

Security_Information:

Cross_Reference:

Citation_Information:

Series_Information:

Publication_Information:

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

Equipment Used

The horizontal location of the wells and benchmark was performed using differentially corrected TRIMBLE GPS PATHFINDER PRO XR receiver. The vertical data was collected using a LEICA NA3003 electronic digital level. Coordinates are based on the Florida State Plane Coordinate System, East Zone, NAD 83/99. Elevations are based on NAVD 88.

Logical_Consistency_Report:

Horizontal data was established using differentially corrected GPS signals from U.S. Coast Guard Beacon at Cape Canaveral. Vertical data was established using existing NGS benchmarks P09 and K106.

Completeness_Report:

Project Results

Horizontal location taken at approximate center of well.

Well SNI VELY' S RANCH

Lat. +27°58' 16.60"

Long. -081°25' 03.42"

N 1322492.373'

E 521369.501"

Elevation taken on top of pipe extending vertically above well platform at tip of black arrow.

69.25' (NAVD 88)

70.46' (NGVD 29) calculated using 1.21' offset value based on

superseded NGVD 29 elevation posted on NGS datasheet for benchmark P09.

NEW SITE BENCHMARK

SNRH5 is a standard SFWMD aluminum

disk set in top of a class "C" concrete monument, flush with the ground. A magnet was set on the south side of the mark. From the intersection of State Road 60 & State Road 630, go NW on State Road 60.

Take right on Boy Scout Camp Road. Take right on

Camp Mack Road to a gravel road on the left, just past the "R&R Turf Farm" sign. Go ~1.2 miles to mark on the right.

Lat. +27°58' 16.56"

Long. -081°25' 03.45"

N 1322488.460'

E 521366.648'

65.43' (NAVD 88)

66.64' (NGVD 29) calculated using 1.21' offset value based on

superseded NGVD 29 elevation posted on NGS datasheet for benchmark P09.

EXISTING BENCHMARK POL 16

63.32' (NAVD 88) posted SFWMD database

63.36' (NAVD 88) measured for this project

64.57' (NGVD 29) calculated using 1.21' offset value based on

SNI VLY. gen

superseded NGVD 29 elevation posted on NGS datasheet for benchmark P09.

64.52' (NGVD 29) posted SFWMD database

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal

Horizontal_Positional_Accuracy_Report:

The horizontal positions of the well and benchmark SNRH5 were established with differentially corrected GPS signals from U.S. Coast Guard Beacon at Cape Canaveral.

Quantitative_Horizontal_Positional_Accuracy_Assessment:

Horizontal_Positional_Accuracy_Value: sub meter

Horizontal_Positional_Accuracy_Explanation: The intended

positional accuracy for this survey is sub meter.

Vertical_Positional_Accuracy:

Level Line

Vertical_Positional_Accuracy_Report:

A level line was run originating on NGS benchmark P09 with an NAVD 88 elevation and running through existing benchmarks K107 and POL16, through Army Corps of Engineers benchmarks KR 1833 and 1832 and through new site benchmark SNRH5 and terminating on NGS benchmark K106 in accordance with Florida Minimum Technical Standards (Chapter 61G17-6). The well platform was then elevated by a level line originating on new site benchmark SNRH5 with an newly established NAVD 88 elevation running through pipe extending above well platform and terminating on new site benchmark SNRH5 in accordance with Florida Minimum Technical Standards (Chapter 61G17-6).

Quantitative_Vertical_Positional_Accuracy_Assessment:

Vertical_Positional_Accuracy_Value: 0.006 ft

Vertical_Positional_Accuracy_Explanation: NAVD 88 level

run, 0.006 ft closure in 17912.2 ft, max. allowed 0.055 ft (MTS)

Quantitative_Vertical_Positional_Accuracy_Assessment:

Vertical_Positional_Accuracy_Value: 0.000 ft

Vertical_Positional_Accuracy_Explanation: NAVD 88 level

run, 0.000 ft closure in 86.0 ft, max. allowed 0.004 ft (MTS)

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Series_Information:

Publication_Information:

Larger_Work_Citation:

Citation_Information:

Series_Information:

Publication_Information:

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Range_of_Dates/Times:

Multiple_Dates/Times:

Process_Step:

Process_Description:

The horizontal work was performed using a Trimble GPS Pathfinder Pro XR receiver using U.S. Coast Guard beacon at Cape Canaveral. The level line was performed using a Leica NA3003 electronic digital level.

Process_Date: 20050625

Process_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Organization_Primary:

Contact_Address:

Spatial_Data_Organization_Information:

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Planar:

- SNI VLY. gen
- Map_Proj ecti on:
 - Al bers_Coni cal _Equal _Area:
 - Azi muthal _Equi di stant:
 - Equi di stant_Coni c:
 - Equi rectangul ar:
 - General _Verti cal _Near-si ded_Perspecti ve:
 - Gnomoni c:
 - Lambert_Azi muthal _Equal _Area:
 - Lambert_Conformal _Coni c:
 - Mercator:
 - Modi fi ed_Stereographi c_for_Al aska:
 - Mi l l er_Cyl i ndri cal :
 - Obl i que_Mercator:
 - Obl i que_Li ne_Poi nt:
 - Orthographi c:
 - Pol ar_Stereographi c:
 - Pol yconi c:
 - Robi nson:
 - Si nusoi dal :
 - van_der_Gri nten:
 - Space_Obl i que_Mercator_(Landsat):
 - Stereographi c:
 - Transverse_Mercator:
 - van_der_Gri nten:
- Gri d_Coordi nate_System:
 - Uni versal _Transverse_Mercator:
 - Transverse_Mercator:
 - Uni versal _Pol ar_Stereographi c:
 - Pol ar_Stereographi c:
 - State_Pl ane_Coordi nate_System:
 - Lambert_Conformal _Coni c:
 - Transverse_Mercator:
 - Obl i que_Mercator:
 - Obl i que_Li ne_Poi nt:
 - Pol yconi c:
 - ARC_Coordi nate_System:
 - Equi rectangul ar:
 - Azi muthal _Equi di stant:
- Local _Pl anar:
 - Pl anar_Coordi nate_I nformati on:
 - Coordi nate_Representati on:
 - Di stance_and_Beari ng_Representati on:
- Local :
 - Geodeti c_Model :
 - Hori zontal _Datum_Name: North American Datum of 1983
 - El l i psoi d_Name: Geodeti c Reference System 80
 - Verti cal _Coordi nate_System_Defi ni ti on:
 - Al ti tude_System_Defi ni ti on:
 - Depth_System_Defi ni ti on:
- Enti ty_and_Attri bute_I nformati on:
 - Detail ed_Descri pti on:
 - Enti ty_Type:
 - Attri bute:
 - Attri bute_Domai n_Val ues:
 - Attri bute_Val ue_Accuracy_I nformati on:
 - Overvi ew_Descri pti on:
- Di stri buti on_I nformati on:
 - Di stri butor:
 - Contact_I nformati on:
 - Contact_Person_Pri mary:
 - Contact_Organi zati on_Pri mary:
 - Contact_Address:
- Standard_Order_Process:
 - Di gi tal _Form:
 - Di gi tal _Transfer_I nformati on:
 - Di gi tal _Transfer_Opti on:
 - Onl i ne_Opti on:
 - Computer_Contact_I nformati on:
 - Network_Address:
 - Di al up_I nstructi ons:

SNI VLY. gen
Offline_Option:
Recording_Capacity:

Available_Time_Period:
Time_Period_Information:
Single_Date/Time:
Range_of_Dates/Times:
Multiple_Dates/Times:

Metadata_Reference_Information:

Metadata_Date: 20050518

Metadata_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Darren Townsend

Contact_Organization: Cooner & Associates, Inc.

Contact_Organization_Primary:

Contact_Position: Project Surveyor

Contact_Address:

Address_Type: mailing and physical address

Address: 5670 Zip Drive

City: Fort Myers

State_or_Province: Florida

Postal_Code: 33905

Country: USA

Contact_Voice_Telephone: (239) 277-0722

Contact_Facsimile_Telephone: (239) 277-7179

Contact_Electronic_Mail_Address: darrent@cooner.com

Hours_of_Service: 8:00 am to 5:00 pm EST

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: 19980601

Metadata_Security_Information:

SNIVELY'S RANCH



- COONER & ASSOCIATES, INC.
 - Date of photo: March 29, 2005
- View: Looking North at BM SNRH5

SNIVELY'S RANCH



- COONER & ASSOCIATES, INC.
 - Date of photo: March 29, 2005
- View: Looking at top view of BM SNRH5

SNIVELY'S RANCH



- COONER & ASSOCIATES, INC.
 - Date of photo: March 29, 2005
- View: Looking at Elevation on well

SNIVELY'S RANCH



- COONER & ASSOCIATES, INC.
- Date of photo: March 29, 2005
- View: Looking North at well

020801.03

SFwmo

Snively's Ranch (Well Elevation)

Card 1, Run b

+	HI	-	EL	Adj EL	PT [#]
4.745			65.43' NAVD 88		123
	70.175'				
1.116					
HSS		0.930	69.245'	69.25'	201
	70.401				
		4.971	65.430'	65.43'	123
			(65.43' Posted)		

LINE LENGTH = 86.0'

$$\text{ALLOWABLE MISCLOSURE} = 0.03 \sqrt{\frac{86^4}{5280}}$$

$$= \pm 0.004'$$

ACTUAL MISCLOSURE = 0.000'

3/29/05

FB86

A655

Etgeton

Collins

Description

Set 2" Aluminum Disk In ~12" Poured Concrete Monument
 "SO FLA WATER MANAGEMENT DIST BM SNR#5"
 Elevated Well At Mark on Top Of Pipe

Check In To Start Point

020801.03

SFWMO

Snively's Ranch

A- Well

N: - 1322492.373'

E: - 521369.501'

~~EE.~~

B- Set 2" Aluminum Disk In ~12" Poured Concrete Monument
"SO. FLA. WATER MANAGEMENT DIST. BM SNRH5"

N: 1322488.460'

E: 521366.648'

~~EE.~~

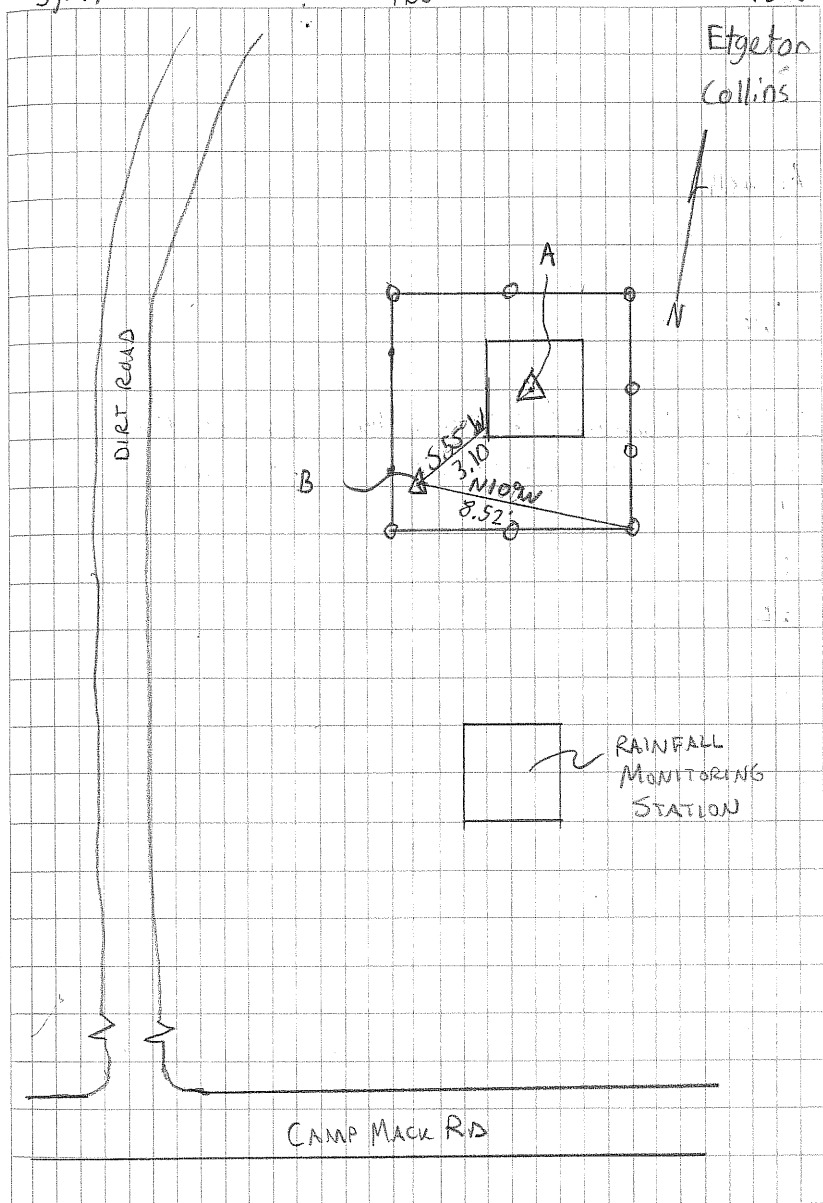
FL STATE PLANE, EAST ZONE

3/29/05

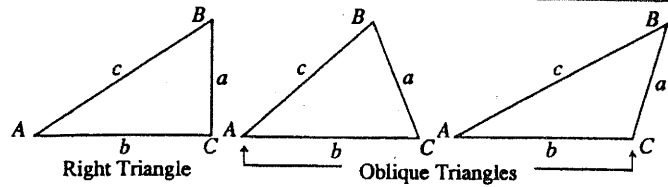
F886

P656

Etgeton
Collins



TRIGONOMETRIC FORMULÆ



Solution of Right Triangles

For Angle A. $\sin = \frac{a}{c}$, $\cos = \frac{b}{c}$, $\tan = \frac{a}{b}$, $\cot = \frac{b}{a}$, $\sec = \frac{c}{b}$, $\operatorname{cosec} = \frac{c}{a}$

Given	Required
a, b	A, B, c $\tan A = \frac{a}{b} = \cot B$, $c = \sqrt{a^2 + b^2} = a \sqrt{1 + \frac{b^2}{a^2}}$
a, c	A, B, b $\sin A = \frac{a}{c} = \cos B$, $b = \sqrt{(c+a)(c-a)} = c \sqrt{1 - \frac{a^2}{c^2}}$
A, a	B, b, c $B = 90^\circ - A$, $b = a \cot A$, $c = \frac{a}{\sin A}$
A, b	B, a, c $B = 90^\circ - A$, $a = b \tan A$, $c = \frac{b}{\cos A}$
A, c	B, a, b $B = 90^\circ - A$, $a = c \sin A$, $b = c \cos A$

Solution of Oblique Triangles

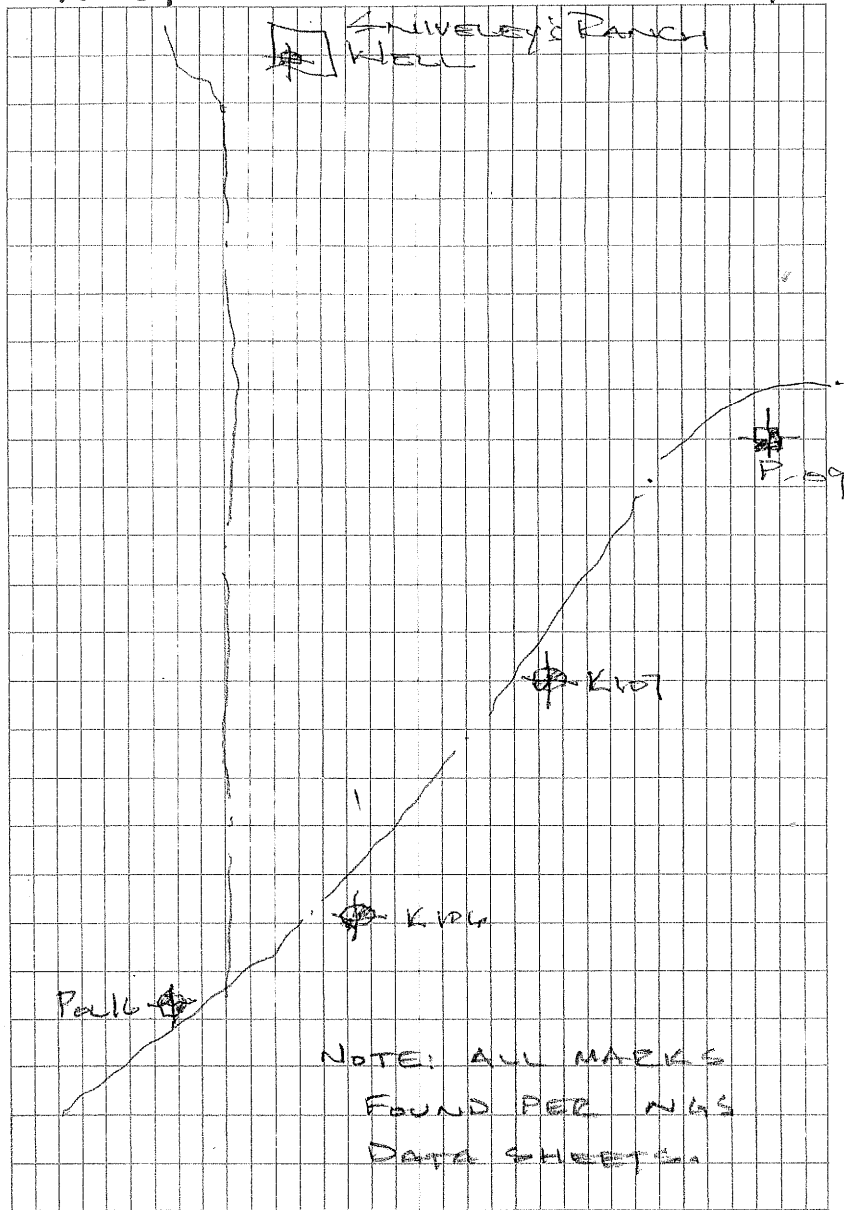
Given	Required
A, B, a	b, c, C $b = \frac{a \sin B}{\sin A}$, $C = 180^\circ - (A + B)$, $c = \frac{a \sin C}{\sin A}$
A, a, b	B, c, C $\sin B = \frac{b \sin A}{a}$, $C = 180^\circ - (A + B)$, $c = \frac{a \sin C}{\sin A}$
a, b, C	A, B, c $A + B = 180^\circ - C$, $\tan \frac{1}{2}(A - B) = \frac{(a-b) \tan \frac{1}{2}(A+B)}{a+b}$ $c = \frac{a \sin C}{\sin A}$
a, b, c	A, B, C $s = \frac{a+b+c}{2}$, $\sin \frac{1}{2}A = \sqrt{\frac{(s-b)(s-c)}{bc}}$, $\sin \frac{1}{2}B = \sqrt{\frac{(s-a)(s-c)}{ac}}$, $C = 180^\circ - (A + B)$
a, b, c	Area $s = \frac{a+b+c}{2}$, $\text{area} = \sqrt{s(s-a)(s-b)(s-c)}$
A, b, c	Area $\text{area} = \frac{bc \sin A}{2}$
A, B, C, a	Area $\text{area} = \frac{a^2 \sin B \sin C}{2 \sin A}$

SWIVELER'S RANCH
WELL

LEVEL RUN
LEICA NA200Z
DIGITAL LEVEL
BAR CODE FOD

SNIWELY'S RANCH

FB 139



4-6-5

SMIVELY'S RANCH

BS HI FS EL. NOTE

5.052	69.067		64.01	P-9 ¹⁰⁰
5.286	69.615	4.733	64.329	TP-1
5.221	69.850	4.985	64.630	TP-2
4.807	70.319	4.333	65.517	TP-3
4.213	69.720	4.812	65.507	TP-4
4.365	69.210	4.876	64.845	TP-5
6.694	69.898	6.007	63.203	BM
4.530	69.585	4.842	65.055	TP-7
4.941	69.402	5.125	64.460	TP-8
4.377	68.718	5.060	64.342	TP-9
6.736	68.738	7.216	61.502	10. BM
4.026	69.957	4.308	63.931	TP-11
5.134	68.495	4.596	63.361	2-B ¹¹²
4.975	69.403	4.067	64.428	TP-13
5.722	71.291	3.834	65.569	T-14
5.459	71.271	4.479	66.812	T-15
4.958	72.048	5.181	67.090	T-16
4.955	72.405	4.598	67.450	T-17
4.224	72.387	4.242	68.163	T-18
4.594	72.086	4.895	67.492	T-19

17,912 Ft.

A. Johnson

FB 139

7

M. Moore

80° + Sunny Windy

E BM CM W/Around SE BM BM P-07 (NA)

K107 63.17 (pub)

K106 61.46 (pub)

P-04 63.37 (pub) (63.36' ADJUSTED)

4-6-5 SNIVELY'S PANICHT

BS HI FS EL. NOBS

72.086 (CONT.)

4.321 71.836 4.571 67.575 F 20

4.899 70.990 ~~5.744~~ F 21

4.029 70.143 4.877 66.114 22

4.395 69.832 4.706 65.437 ~~23~~ 123 BM

5.520 71.514 3.838 65.994 24

3.935 71.301 4.149 67.366 25

5.023 72.158 4.165 67.136 26

4.928 72.060 5.027 67.132 27

4.731 72.756 4.034 68.025 28

4.758 72.170 5.344 67.412 ~~29~~ 129

5.307 72.658 4.820 67.351 30

4.431 71.986 5.103 67.555 31

4.021 70.776 5.230 66.756 32

4.590 68.242 7.124 63.655 ~~33~~ 133

4.673 68.155 4.760 64.482 34

6.689 61.466 ~~35~~ 135

(61.46' POSTED)

LINE LENGTH = 17912.2'

$$\begin{aligned} \text{ALLOWABLE MISCLOSURE} &= 0.03 \sqrt{\frac{17912.2}{5280}} \\ &= \pm 0.055 \end{aligned}$$

ACTUAL MISCLOSURE = 0.006'

FB 139

3

A. JOHNSON

M. AMORE

I ALUM DISK IN CONC

(65.43' ADJUSTED)

BM "BM SNR 15"

"SEWARD"

KR 1831 BEASS DISK

AGENCY JAX
2004 (67.41'
ARMY CORPS OF E.

KR 1832 "JAX" A. COE (63.65' ADJUSTED)

BM K-~~107~~¹⁰⁶

(61.46' ADJUSTED)



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01

COUNTY Polk		PROJECT Snively's Ranch		DESIGNATION SNRH 5	
SECTION <u>9</u>		TOWNSHIP <u>29S</u>		RANGE <u>29E</u>	
GEOGRAPHIC INDEX OF QUAD					
Established by <u>X</u> Recovered by Cooner & Associates, Inc. (Field work by EF Gaines)			NAME OF QUADRANGLE Hesperides		
SURVEYOR <u>A. Johnson</u> DATE <u>04 / 06 / 2005</u>			FIELD BOOK <u>139</u> PAGE <u>1-3</u>		
HORIZONTAL DATUM: 1927 <u>1983</u> Other _____ (circle one) ZONE <u>E</u> or W					
VERTICAL DATUM: MSL 1929 <u>1988</u> Other _____ (circle one)					
CONTROL ACCURACY: HORIZONTAL 1 2 3 <u>Sub-meter</u> (circle one) VERTICAL 1 <u>2</u> 3					
STATE PLANE COORDINATES		X 521366.65'	Y 1322488.46'	EL. 65.43'	
LATITUDE 27° 58' 16.0" N		LONGITUDE 081° 25' 03.4" W			
DESCRIPTION SFWMD ALUM. DISK IN CONCRETE STAMPED "BMSNRH5"					
To Reach:					
From the intersection of State Road 60 & State Road 630, go NW on State Road 60.					
Take right on Boy Scout Camp Road. Take right on					
Camp Mack Road to a gravel road on the left, just past the "R&R Turf Farm" sign. Go ~1.2 miles to mark on the right.					
Notable Land marks:					
Mark is inside fence at well location on right side, ~1.2 miles from Camp Mack Road.					

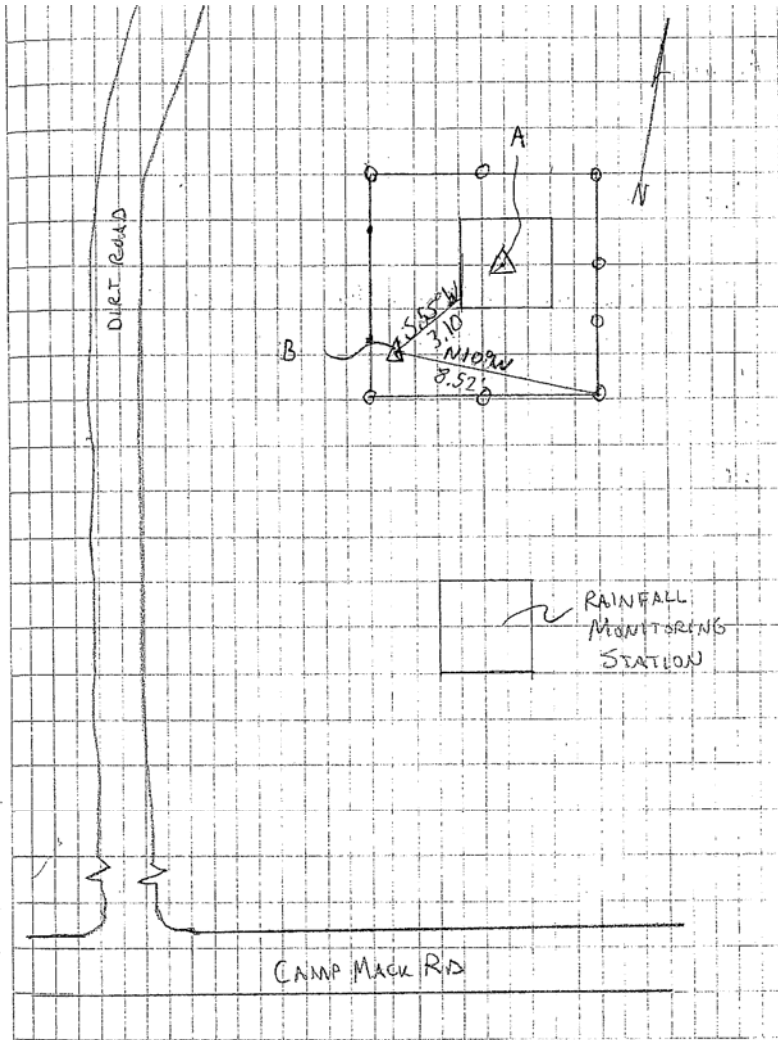
SKETCH





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01



The NGS Data Sheet

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

DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 7.35

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2006

AF7021 *****

AF7021 DESIGNATION - PO 9

AF7021 PID - AF7021

AF7021 STATE/COUNTY- FL/POLK

AF7021 USGS QUAD - HESPERIDES (1972)

AF7021

AF7021 *CURRENT SURVEY CONTROL

AF7021* NAD 83(1999)- 27 58 07.48332(N) 081 24 01.22426(W) ADJUSTED

AF7021* NAVD 88 - 19.511 (meters) 64.01 (feet) ADJUSTED

AF7021

AF7021 X - 842,948.242 (meters) COMP

AF7021 Y - -5,573,959.261 (meters) COMP

AF7021 Z - 2,973,443.038 (meters) COMP

AF7021 LAPLACE CORR- -2.16 (seconds) DEFLEC99

AF7021 ELLIP HEIGHT- -7.69 (meters) (01/28/04) GPS OBS

AF7021 GEOID HEIGHT- -27.18 (meters) GEOID03

AF7021 DYNAMIC HT - 19.481 (meters) 63.91 (feet) COMP

AF7021 MODELED GRAV- 979,148.7 (mgal) NAVD 88

AF7021

AF7021 HORZ ORDER - FIRST

AF7021 VERT ORDER - SECOND CLASS I

AF7021 ELLP ORDER - THIRD CLASS I

AF7021

AF7021.The horizontal coordinates were established by GPS observations

AF7021.and adjusted by the FL DEPT OF ENV PRO in January 2004..

AF7021

AF7021.The orthometric height was determined by differential leveling

AF7021.and adjusted by the National Geodetic Survey in June 1991..

AF7021

AF7021.The X, Y, and Z were computed from the position and the ellipsoidal ht.

AF7021

AF7021.The Laplace correction was computed from DEFLEC99 derived deflections.

AF7021

AF7021.The ellipsoidal height was determined by GPS observations

AF7021.and is referenced to NAD 83.

AF7021

AF7021.The geoid height was determined by GEOID03.

AF7021

AF7021.The dynamic height is computed by dividing the NAVD 88

AF7021.geopotential number by the normal gravity value computed on the

AF7021.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

AF7021.degrees latitude (g = 980.6199 gals.).

AF7021

AF7021.The modeled gravity was interpolated from observed gravity values.

AF7021

AF7021;

	North	East	Units	Scale	Factor	Converg.
AF7021;SPC FL W	- 402,890.374	258,997.817	MT	0.99998412	+0 16	52.5
AF7021;SPC FL W	- 1,321,816.17	849,728.67	sFT	0.99998412	+0 16	52.5
AF7021;UTM 17	- 3,093,804.657	460,626.022	MT	0.99961913	-0 11	15.9

AF7021

AF7021! - Elev Factor x Scale Factor = Combined Factor

AF7021!SPC FL W - 1.00000121 x 0.99998412 = 0.99998533

AF7021!UTM 17 - 1.00000121 x 0.99961913 = 0.99962034

AF7021

AF7021 SUPERSEDED SURVEY CONTROL

AF7021

AF7021 NAVD 88 (01/28/04) 19.51 (m) 64.0 (f) LEVELING 3

AF7021 NGVD 29 (09/01/92) 19.879 (m) 65.22 (f) ADJUSTED 2 2

AF7021

AF7021.Superseded values are not recommended for survey control.

AF7021.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

AF7021.[See file dsdata.txt](#) to determine how the superseded data were derived.

AF7021

AF7021_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML6062693805(NAD 83)

AF7021_MARKER: DB = BENCH MARK DISK

AF7021_SETTING: 9 = SET IN PREFABRICATED CONCRETE POST IMBEDDED IN GROUND

AF7021_SP_SET: SET IN TOP OF CONCRETE MONUMENT
 AF7021_STAMPING: S.F.W.M PO BM 9
 AF7021_MARK LOGO: SFLWMD
 AF7021_PROJECTION: PROJECTING 13 CENTIMETERS
 AF7021_MAGNETIC: N = NO MAGNETIC MATERIAL
 AF7021_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
 AF7021_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 AF7021+SATELLITE: SATELLITE OBSERVATIONS - April 18, 2005

AF7021	HISTORY	- Date	Condition	Report By
AF7021	HISTORY	- UNK	MONUMENTED	SFLWMD
AF7021	HISTORY	- 1983	GOOD	FLDNR
AF7021	HISTORY	- 19970203	MARK NOT FOUND	USPSQD
AF7021	HISTORY	- 20010118	GOOD	FLDEP
AF7021	HISTORY	- 20020304	GOOD	PICKET
AF7021	HISTORY	- 20030403	GOOD	FLDEP
AF7021	HISTORY	- 20030922	GOOD	FL-105
AF7021	HISTORY	- 20050418	GOOD	INDIV

AF7021
 AF7021 STATION DESCRIPTION

AF7021 DESCRIBED BY FL DEPT OF NAT RES 1983
 AF7021 15.95 MI ENE FROM LAKE WALES.
 AF7021 BEGIN IN LAKE WALES AT THE STATE HIGHWAY 60 BRIDGE OVER THE SCL
 AF7021 RAILROAD, GO 8.25 MILES EASTERLY ON HIGHWAY 60 TO THE INTERSECTION
 AF7021 OF BOY SCOUT ROAD, GO 3.7 MILES NORTH ON BOY SCOUT ROAD TO CAMP MACK
 AF7021 ROAD, GO 4.0 MILES EASTERLY ON CAMP MACK ROAD TO THE MARK.
 AF7021 THE MARK BEARS 41.7 FEET SOUTHWEST OF THE CENTERLINE OF CAMP MACK
 AF7021 ROAD, 1.3 FEET NORTH OF A FENCE LINE, 4.6 FEET SOUTH OF POWER POLE
 AF7021 NO. 6-10631, AND 32 FEET NORTHWEST OF A GATE POST.

AF7021
 AF7021 STATION RECOVERY (1997)

AF7021 RECOVERY NOTE BY US POWER SQUADRON 1997
 AF7021 MARK NOT FOUND.

AF7021
 AF7021 STATION RECOVERY (2001)

AF7021 RECOVERY NOTE BY FL DEPT OF ENV PRO 2001 (JLM)
 AF7021 THE MARK IS ABOUT 15.5 MI (24.9 KM) EAST-NORTHWEST OF LAKE WALES, IN
 AF7021 SECTION 15, TOWNSHIP 29 SOUTH, RANGE 29 EAST. TO REACH THE MARK FROM
 AF7021 THE INTERSECTION OF STATE ROAD 27 AND STATE ROAD 60 IN LAKE WALES, GO
 AF7021 EAST-SOUTHEAST ON STATE ROAD 60 FOR 7.3 MI (11.7 KM) TO THE JUNCTION
 AF7021 OF MAMMOTH GROVE ROAD ON THE LEFT, TURN LEFT ON MAMMOTH GROVE ROAD AND
 AF7021 GO FOR 2.05 MI (3.30 KM) TO THE JUNCTION OF CAMP MACK ROAD ON THE
 AF7021 RIGHT, TURN RIGHT ON CAMP MACK ROAD FOR AND GO NORTH 0.25 MI (0.40 KM)
 AF7021 TO A CURVE EAST, CONTINUE EAST ON CAMP MACK ROAD FOR 2.3 MI (3.7 KM)
 AF7021 TO THE JUNCTION OF BARNEY KEEN ROAD (BOY SCOUT ROAD) ON THE RIGHT,
 AF7021 CONTINUE NORTHEASTERLY ON CAMP MACK ROAD FOR 3.7 MI (6.0 KM) TO THE
 AF7021 MARK ON THE RIGHT, SET IN THE TOP OF A 4-INCH SQUARE CONCRETE MONUMENT
 AF7021 PROJECTING 0.4 FT (12.2 CM) ABOVE THE LEVEL OF THE GROUND AND ABOVE
 AF7021 THE LEVEL OF CAMP MACK ROAD. LOCATED 42.1 FT (12.8 M) SOUTHEAST OF THE
 AF7021 APPROXIMATE CENTERLINE OF CAMP MACK ROAD, 3.5 FT (1.1 M) SOUTHEAST OF
 AF7021 POWER POLE NUMBER FPC B11515, 1.9 FT (0.6 M) NORTHWEST OF A BARBWIRE
 AF7021 FENCE AND 1.5 FT (0.5 M) NORTHWEST OF A CARSONITE WITNESS POST.

AF7021
 AF7021 STATION RECOVERY (2002)

AF7021 RECOVERY NOTE BY PICKETT AND ASSOCIATES 2002 (HS)
 AF7021 RECOVERED IN GOOD CONDITION.

AF7021
 AF7021 STATION RECOVERY (2003)

AF7021 RECOVERY NOTE BY FL DEPT OF ENV PRO 2003 (BPJ)
 AF7021 RECOVERED AS DESCRIBED.

AF7021
 AF7021

AF7021
 AF7021

AF7021
 AF7021 STATION RECOVERY (2003)

AF7021 RECOVERY NOTE BY POLK COUNTY FLORIDA 2003 (RWY)
 AF7021 RECOVERED AS DESCRIBED. RECOVERY NOTE BY POLK COUNTY PROPERTY
 AF7021 APPRAISER GIS DEPARTMENT.

AF7021
 AF7021 STATION RECOVERY (2005)

AF7021 RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2005 (ADJ)
 AF7021 RECOVERED IN GOOD CONDITION.

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

The NGS Data Sheet

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

DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 7.35

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2006

AF7634 *****

AF7634 DESIGNATION - K 106
 AF7634 PID - AF7634
 AF7634 STATE/COUNTY- FL/POLK
 AF7634 USGS QUAD - HESPERIDES (1972)

AF7634
 AF7634 *CURRENT SURVEY CONTROL

AF7634* NAD 83(1999)- 27 57 33.88807(N) 081 24 48.85158(W) ADJUSTED

AF7634* NAVD 88 - 18.734 (meters) 61.46 (feet) ADJUSTED

AF7634
 AF7634 X - 841,733.484 (meters) COMP
 AF7634 Y - -5,574,632.669 (meters) COMP
 AF7634 Z - 2,972,529.309 (meters) COMP
 AF7634 LAPLACE CORR- -2.30 (seconds) DEFLEC99
 AF7634 ELLIP HEIGHT- -8.36 (meters) (07/06/01) GPS OBS
 AF7634 GEOID HEIGHT- -27.13 (meters) GEOID03
 AF7634 DYNAMIC HT - 18.706 (meters) 61.37 (feet) COMP
 AF7634 MODELED GRAV- 979,148.6 (mgal) NAVD 88

AF7634
 AF7634 HORZ ORDER - SECOND
 AF7634 VERT ORDER - SECOND CLASS I
 AF7634 ELLP ORDER - FOURTH CLASS II

AF7634 The horizontal coordinates were established by GPS observations
 AF7634 and adjusted by the National Geodetic Survey in July 2001..

AF7634 The orthometric height was determined by differential leveling
 AF7634 and adjusted by the National Geodetic Survey in April 2004..

AF7634 The X, Y, and Z were computed from the position and the ellipsoidal ht.

AF7634 The Laplace correction was computed from DEFLEC99 derived deflections.

AF7634 The ellipsoidal height was determined by GPS observations
 AF7634 and is referenced to NAD 83.

AF7634 The geoid height was determined by GEOID03.

AF7634 The dynamic height is computed by dividing the NAVD 88
 AF7634 geopotential number by the normal gravity value computed on the
 AF7634 Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AF7634 degrees latitude (g = 980.6199 gals.).

AF7634 The modeled gravity was interpolated from observed gravity values.

	North	East	Units	Scale	Factor	Converg.
AF7634; SPC FL W	- 401,849.922	257,701.134	MT	0.99998226	+0 16 29.8	
AF7634; SPC FL W	- 1,318,402.62	845,474.47	sFT	0.99998226	+0 16 29.8	
AF7634; SPC FL E	- 401,780.331	159,307.457	MT	0.99996161	-0 11 38.1	
AF7634; SPC FL E	- 1,318,174.30	522,661.22	sFT	0.99996161	-0 11 38.1	
AF7634; UTM 17	- 3,092,775.226	459,321.341	MT	0.99962042	-0 11 38.1	

	Elev Factor	x	Scale Factor	=	Combined Factor
AF7634! SPC FL W	- 1.00000131	x	0.99998226	=	0.99998357
AF7634! SPC FL E	- 1.00000131	x	0.99996161	=	0.99996292
AF7634! UTM 17	- 1.00000131	x	0.99962042	=	0.99962173

AF7634
 AF7634 SUPERSEDED SURVEY CONTROL

AF7634 NAD 83(1990)- 27 57 33.88820(N) 081 24 48.85198(W) AD() 2

AF7634 ELLIP H (12/04/92) -8.34 (m) GP() 3 2

AF7634 NGVD 29 (12/04/92) 19.1 (m) 63. (f) GPS OBS

AF7634
 AF7634 Superseded values are not recommended for survey control.
 AF7634 NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 AF7634 See file [dsdata.txt](#) to determine how the superseded data were derived.

AF7634
 AF7634_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML5932192775(NAD 83)
 AF7634_MARKER: F = FLANGE-ENCASED ROD
 AF7634_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+))
 AF7634_SP_SET: STAINLESS STEEL ROD
 AF7634_STAMPING: K 106 1991
 AF7634_MARK LOGO: NGS
 AF7634_PROJECTION: RECESSED 36 CENTIMETERS
 AF7634_MAGNETIC: N = NO MAGNETIC MATERIAL
 AF7634_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
 AF7634_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 AF7634+SATELLITE: SATELLITE OBSERVATIONS - April 18, 2005
 AF7634_ROD/PIPE-DEPTH: 11 meters

HISTORY	Date	Condition	Report By
HISTORY	- 1991	MONUMENTED	KEISCH
HISTORY	- 19970210	GOOD	USPSQD
HISTORY	- 20010118	GOOD	FLDEP
HISTORY	- 20020315	GOOD	PICKET
HISTORY	- 20030922	GOOD	FL-105
HISTORY	- 20050418	GOOD	INDIV

AF7634
 AF7634 STATION DESCRIPTION

AF7634 DESCRIBED BY KEITH AND SCHNARS - LAKELAND 1991
 AF7634 THE STATION IS LOCATED ABOUT 12.5 MI (20.1 KM) NORTHEAST OF LAKE WALES
 AF7634 IN THE EAST RIGHT-OF-WAY OF CAMP MACK ROAD IN SECTION 15, TOWNSHIP 29
 AF7634 SOUTH, RANGE 29 EAST, POLK COUNTY, FLORIDA.
 AF7634 TO REACH THE STATION FROM THE INTERSECTION OF S.R. 60 AND U.S. 27 IN
 AF7634 LAKE WALES, GO EAST ON S.R. 60 FOR 9.5 MI (15.3 KM) TO THE
 AF7634 INTERSECTION OF S.R. 60 AND BOY SCOUT ROAD. TURN LEFT AND GO NORTH ON
 AF7634 BOY SCOUT ROAD 3.5 MI (5.6 KM) TO THE INTERSECTION OF BOY SCOUT ROAD
 AF7634 AND CAMP MACK ROAD. TURN RIGHT AND GO NORTHEAST ON CAMP MACK ROAD 3.0
 AF7634 MI (4.8 KM) TO THE STATION IN THE EAST RIGHT-OF-WAY. THE STATION LIES
 AF7634 9.8 FT (3.0 M) SOUTHEAST OF THE SOUTHEAST EDGE OF PAVEMENT, 26.2 FT
 AF7634 (8.0 M) WEST OF THE BARBWARE FENCE, AND 220 FT (67.1 M) EAST
 AF7634 NORTHEAST OF A POWER POLE (NUMBER 6-12852). ACCESS TO DATUM
 AF7634 POINT--THE STATION IS RECESSED 1.2 FT (0.4 M) BELOW GROUND INSIDE A
 AF7634 NGS LOGO CAP WHICH IS MOUNTED ON A 5 1/4 INCH DIAMETER PVC PIPE SET
 AF7634 IN A CONCRETE COLLAR.
 AF7634 REFERENCES--
 AF7634 KEITH AND SCHNARS NAIL AND DISC, SET IN FENCE POST, SOUTH 1 DEGREE
 AF7634 EAST AT 33.30 FT (10.15 M).
 AF7634 KEITH AND SCHNARS NAIL AND DISC, SET AT EDGE OF PAVEMENT, SOUTH 81
 AF7634 DEGREES WEST AT 21.36 FT (6.51 M).
 AF7634 KEITH AND SCHNARS NAIL AND DISC, SET AT EDGE OF PAVEMENT, NORTH 20
 AF7634 DEGREES EAST AT 20.20 FT (6.16 M).
 AF7634 KEITH AND SCHNARS NAIL AND DISC, SET IN FENCE POST, SOUTH 88 DEGREES
 AF7634 EAST AT 41.18 FT (12.55 M).
 AF7634 SET CARSONITE WITNESS POST, SOUTH 37 DEGREES EAST AT 26.24 FT
 AF7634 (8.00 M).

AF7634
 AF7634 STATION RECOVERY (1997)

AF7634 RECOVERY NOTE BY US POWER SQUADRON 1997
 AF7634 RECOVERED IN GOOD CONDITION.

AF7634
 AF7634 STATION RECOVERY (2001)

AF7634 RECOVERY NOTE BY FL DEPT OF ENV PRO 2001 (JLM)
 AF7634 THE MARK IS ABOUT 14.7 MI (23.7 KM) EAST-NORTHWEST OF LAKE WALES, IN
 AF7634 SECTION 15, TOWNSHIP 29 SOUTH, RANGE 29 EAST. TO REACH THE MARK FROM
 AF7634 THE INTERSECTION OF STATE ROAD 27 AND STATE ROAD 60 IN LAKE WALES, GO
 AF7634 EAST-SOUTHEAST ON STATE ROAD 60 FOR 7.3 MI (11.7 KM) TO THE JUNCTION
 AF7634 OF MAMMOTH GROVE ROAD ON THE LEFT, TURN LEFT ON MAMMOTH GROVE ROAD AND
 AF7634 GO NORTH FOR 2.05 MI (3.30 KM) TO THE JUNCTION OF CAMP MACK ROAD ON
 AF7634 THE RIGHT, TURN RIGHT ON CAMP MACK ROAD AND GO NORTH FOR 0.25 MI (0.40
 AF7634 KM) TO A CURVE EAST, CONTINUE EAST ON CAMP MACK ROAD FOR 2.3 MI (3.7
 AF7634 KM) TO THE JUNCTION OF BARNEY KEEN ROAD (BOY SCOUT ROAD) ON THE RIGHT,
 AF7634 CONTINUE NORTHEASTERLY ON CAMP MACK ROAD FOR 3.0 MI (4.8 KM) TO THE
 AF7634 MARK ON THE RIGHT, A STAINLESS STEEL ROD DRIVEN INTO THE GROUND WITH A
 AF7634 NGS LOGO CAP RECESSED 1.2 FT (0.4 M) BELOW THE LEVEL OF THE GROUND AND
 AF7634 BELOW THE LEVEL OF CAMP MACK ROAD, THE DATUM POINT IS RECESSED 0.3 FT
 AF7634 (9.1 CM) BELOW THE LEVEL OF THE NGS LOGO CAP. LOCATED 26.2 FT (8.0 M)
 AF7634 NORTHWEST OF A BARBWARE FENCE, 25.8 FT (7.9 M) NORTHWEST OF A
 AF7634 CARSONITE WITNESS POST, 22.6 FT (6.9 M) NORTHWEST OF POWER POLE NUMBER
 AF7634 FPC B11498, 21.0 FT (6.4 M) SOUTHEAST OF THE APPROXIMATE CENTERLINE OF
 AF7634 CAMP MACK ROAD AND 9.8 FT (3.0 M) SOUTHEAST OF THE SOUTHEAST EDGE OF
 AF7634 THE PAVEMENT AND 1.0 FT (0.3 M) NORTHWEST OF A CARSONITE WITNESS POST.
 AF7634 NOTE ACCESS TO THE DATUM POINT IS HAD THROUGH A 5-INCH NGS LOGO CAP.
 AF7634

DATASHEETS

AF7634 STATION RECOVERY (2002)
AF7634
AF7634 RECOVERY NOTE BY PICKETT AND ASSOCIATES 2002 (HS)
AF7634 RECOVERED IN GOOD CONDITION.
AF7634
AF7634 STATION RECOVERY (2003)
AF7634
AF7634 RECOVERY NOTE BY POLK COUNTY FLORIDA 2003 (RWY)
AF7634 RECOVERED AS DESCRIBED. RECOVERY NOTE BY POLK COUNTY PROPERTY
AF7634 APPRAISER GIS DEPARTMENT.
AF7634
AF7634 STATION RECOVERY (2005)
AF7634
AF7634 RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2005 (ADJ)
AF7634 RECOVERED IN GOOD CONDITION.

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

The NGS Data Sheet

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

DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 7.35

1 National Geodetic Survey, Retrieval Date = APRIL 27, 2006

AF7636 *****

AF7636 DESIGNATION - K 107

AF7636 PID - AF7636

AF7636 STATE/COUNTY- FL/POLK

AF7636 USGS QUAD - HESPERIDES (1972)

AF7636

AF7636 *CURRENT SURVEY CONTROL

AF7636 * NAD 83(1999)- 27 57 47.79066(N) 081 24 29.49871(W) ADJUSTED

AF7636 * NAVD 88 - 19.253 (meters) 63.17 (feet) ADJUSTED

AF7636

AF7636 X - 842,226.611 (meters)

AF7636 Y - -5,574,355.695 (meters) COMP

AF7636 Z - 2,972,907.548 (meters) COMP

AF7636 LAPLACE CORR- -2.24 (seconds) DEFLEC99

AF7636 ELLIP HEIGHT- -7.86 (meters) (07/06/01) GPS OBS

AF7636 GEOID HEIGHT- -27.15 (meters) GEOID03

AF7636 DYNAMIC HT - 19.224 (meters) 63.07 (feet) COMP

AF7636 MODELED GRAV- 979,148.6 (mgal) NAVD 88

AF7636

AF7636 HORZ ORDER - SECOND

AF7636 VERT ORDER - SECOND CLASS I

AF7636 ELLP ORDER - FOURTH CLASS II

AF7636

AF7636.The horizontal coordinates were established by GPS observations

AF7636.and adjusted by the National Geodetic Survey in July 2001..

AF7636

AF7636.The orthometric height was determined by differential leveling

AF7636.and adjusted by the National Geodetic Survey in April 2004..

AF7636

AF7636.The X, Y, and Z were computed from the position and the ellipsoidal ht.

AF7636

AF7636.The Laplace correction was computed from DEFLEC99 derived deflections.

AF7636

AF7636.The ellipsoidal height was determined by GPS observations

AF7636.and is referenced to NAD 83.

AF7636

AF7636.The geoid height was determined by GEOID03.

AF7636

AF7636.The dynamic height is computed by dividing the NAVD 88

AF7636.geopotential number by the normal gravity value computed on the

AF7636.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

AF7636.degrees latitude (g = 980.6199 gals.).

AF7636

AF7636.The modeled gravity was interpolated from observed gravity values.

AF7636

AF7636;

	North	East	Units	Scale	Factor	Converg.
AF7636;SPC FL W	- 402,280.424	258,228.017	MT	0.99998301	+0 16 39.0	
AF7636;SPC FL W	- 1,319,815.02	847,203.09	sFT	0.99998301	+0 16 39.0	
AF7636;SPC FL E	- 402,206.497	159,837.834	MT	0.99996108	-0 11 29.1	
AF7636;SPC FL E	- 1,319,572.48	524,401.29	sFT	0.99996108	-0 11 29.1	
AF7636;UTM 17	- 3,093,201.247	459,851.537	MT	0.99961989	-0 11 29.1	

AF7636;SPC FL W - 402,280.424 258,228.017 MT 0.99998301 +0 16 39.0

AF7636;SPC FL W - 1,319,815.02 847,203.09 sFT 0.99998301 +0 16 39.0

AF7636;SPC FL E - 402,206.497 159,837.834 MT 0.99996108 -0 11 29.1

AF7636;SPC FL E - 1,319,572.48 524,401.29 sFT 0.99996108 -0 11 29.1

AF7636;UTM 17 - 3,093,201.247 459,851.537 MT 0.99961989 -0 11 29.1

AF7636

AF7636! Elev Factor x Scale Factor = Combined Factor

AF7636!SPC FL W - 1.00000123 x 0.99998301 = 0.99998424

AF7636!SPC FL E - 1.00000123 x 0.99996108 = 0.99996231

AF7636!UTM 17 - 1.00000123 x 0.99961989 = 0.99962112

AF7636

AF7636 SUPERSEDED SURVEY CONTROL

AF7636

AF7636 NAD 83(1990)- 27 57 47.79078(N) 081 24 29.49910(W) AD() 2

AF7636 ELLIP H (12/04/92) -7.85 (m) GP() 3 2

AF7636 NGVD 29 (12/04/92) 19.6 (m) 64. (f) GPS OBS

AF7636

AF7636.Superseded values are not recommended for survey control.

AF7636.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

AF7636.[See file dsdata.txt](#) to determine how the superseded data were derived.

AF7636
 AF7636_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML5985293201(NAD 83)
 AF7636_MARKER: F = FLANGE-ENCASED ROD
 AF7636_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
 AF7636_SP_SET: STAINLESS STEEL ROD
 AF7636_STAMPING: K 107 1991
 AF7636_MARK LOGO: NGS
 AF7636_PROJECTION: RECESSED 36 CENTIMETERS
 AF7636_MAGNETIC: N = NO MAGNETIC MATERIAL
 AF7636_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
 AF7636_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 AF7636+SATELLITE: SATELLITE OBSERVATIONS - April 18, 2005
 AF7636_ROD/PIPE-DEPTH: 11 meters

AF7636	HISTORY	- Date	Condition	Report By
AF7636	HISTORY	- 1991	MONUMENTED	KEISCH
AF7636	HISTORY	- 19970210	GOOD	USPSQD
AF7636	HISTORY	- 20010118	GOOD	FLDEP
AF7636	HISTORY	- 20030205	GOOD	USPSQD
AF7636	HISTORY	- 20030922	GOOD	FL-105
AF7636	HISTORY	- 20050418	GOOD	INDIV

AF7636
 AF7636 STATION DESCRIPTION

AF7636 DESCRIBED BY KEITH AND SCHNARS - LAKELAND 1991
 AF7636 THE STATION IS LOCATED ABOUT 12.5 MI (20.1 KM) NORTHEAST OF LAKE WALES
 AF7636 IN THE EAST RIGHT-OF-WAY OF CAMP MACK ROAD IN SECTION 15, TOWNSHIP 29
 AF7636 SOUTH, RANGE 29 EAST, POLK COUNTY, FLORIDA.
 AF7636 TO REACH THE STATION FROM THE INTERSECTION OF S.R. 60 AND U.S. 27 IN
 AF7636 LAKE WALES, GO EAST ON S.R. 60 FOR 9.5 MI (15.3 KM) TO THE
 AF7636 INTERSECTION OF S.R. 60 AND BOY SCOUT ROAD. TURN LEFT AND GO NORTH ON
 AF7636 BOY SCOUT ROAD 3.5 MI (5.6 KM) TO THE INTERSECTION OF BOY SCOUT ROAD
 AF7636 AND CAMP MACK ROAD. TURN RIGHT AND GO NORTHEAST ON CAMP MACK ROAD 3.4
 AF7636 MI (5.5 KM) TO THE STATION IN THE EAST RIGHT-OF-WAY. THE STATION LIES
 AF7636 8.5 FT (2.6 M) SOUTHEAST OF THE SOUTHEAST EDGE OF PAVEMENT, 24.4 FT
 AF7636 (7.4 M) WEST OF A BARBWIRE FENCE, AND 54.5 FT (16.6 M) NORTHEAST OF A
 AF7636 POWER POLE (NUMBER 6-12858). ACCESS TO DATUM POINT--THE STATION IS
 AF7636 RECESSED 1.2 FT (0.4 M) BELOW GROUND INSIDE A NGS LOGO CAP WHICH IS
 AF7636 MOUNTED ON A 5 1/4 INCH DIAMETER PVC PIPE SET IN A CONCRETE COLLAR.
 AF7636 REFERENCES--
 AF7636 KEITH AND SCHNARS NAIL AND DISC, SET IN POWER POLE (NUMBER 6-12858),
 AF7636 SOUTH 31 DEGREES WEST AT 54.54 FT (16.62 M).
 AF7636 KEITH AND SCHNARS NAIL AND DISC, SET AT EDGE OF PAVEMENT, SOUTH 79
 AF7636 DEGREES WEST AT 18.90 FT (5.76 M).
 AF7636 KEITH AND SCHNARS NAIL AND DISC, SET AT EDGE OF PAVEMENT, NORTH 27
 AF7636 DEGREES EAST AT 22.01 FT (6.71 M).
 AF7636 KEITH AND SCHNARS NAIL AND DISC, SET IN FENCE POST, SOUTH 73 DEGREES
 AF7636 EAST AT 30.23 FT (9.21 M).
 AF7636 SET CARSONITE WITNESS POST, SOUTH 31 DEGREES EAST AT 24.38 FT
 AF7636 (7.43 M).

AF7636
 AF7636 STATION RECOVERY (1997)

AF7636 RECOVERY NOTE BY US POWER SQUADRON 1997
 AF7636 RECOVERED IN GOOD CONDITION.

AF7636
 AF7636 STATION RECOVERY (2001)

AF7636 RECOVERY NOTE BY FL DEPT OF ENV PRO 2001 (JLM)
 AF7636 THE MARK IS ABOUT 14.8 MI (23.8 KM) EAST-NORTHWEST OF LAKE WALES, IN
 AF7636 SECTION 15, TOWNSHIP 29 SOUTH, RANGE 29 EAST. TO REACH THE MARK FROM
 AF7636 THE INTERSECTION OF STATE ROAD 27 AND STATE ROAD 60 IN LAKE WALES, GO
 AF7636 EAST-SOUTHEAST ON STATE ROAD 60 FOR 7.3 MI (11.7 KM) TO THE JUNCTION
 AF7636 OF MAMMOTH GROVE ROAD ON THE LEFT, TURN LEFT ON MAMMOTH GROVE ROAD AND
 AF7636 GO NORTH FOR 2.05 MI (3.30 KM) TO THE JUNCTION OF CAMP MACK ROAD ON
 AF7636 THE RIGHT, TURN RIGHT ON CAMP MACK ROAD AND GO NORTH FOR 0.25 MI (0.40
 AF7636 KM) TO A CURVE EAST, CONTINUE EAST ON CAMP MACK ROAD FOR 2.3 MI (3.7
 AF7636 KM) TO THE JUNCTION OF BARNEY KEEN ROAD (BOY SCOUT ROAD) ON THE RIGHT,
 AF7636 CONTINUE NORTHEASTERLY ON CAMP MACK ROAD FOR 3.4 MI (5.5 KM) TO THE
 AF7636 MARK ON THE RIGHT, A STAINLESS STEEL ROD DRIVEN INTO THE GROUND WITH A
 AF7636 NGS LOGO CAP RECESSED 1.2 FT (0.4 M) BELOW THE LEVEL OF THE GROUND AND
 AF7636 BELOW THE LEVEL OF CAMP MACK ROAD, THE DATUM POINT IS RECESSED 0.3 FT
 AF7636 (9.1 CM) BELOW THE LEVEL OF THE NGS LOGO CAP. LOCATED 89.0 FT (27.1 M)
 AF7636 WEST-SOUTHWEST OF POWER POLE NUMBER FPC B11505, 25.0 FT (7.6 M) WEST
 AF7636 OF A BARBWIRE FENCE, 24.4 FT (7.4 M) NORTHWEST OF A CARSONITE WITNESS
 AF7636 POST, 19.4 FT (5.9 M) SOUTHEAST OF THE APPROXIMATE CENTERLINE OF CAMP
 AF7636 MACK ROAD AND 8.5 FT (2.6 M) SOUTHEAST OF THE SOUTHEAST EDGE OF THE
 AF7636 PAVEMENT. NOTE ACCESS TO THE DATUM POINT IS HAD THROUGH A 5-INCH NGS
 AF7636 LOGO CAP.

AF7636
 AF7636 STATION RECOVERY (2003)

DATASHEETS

AF7636
AF7636 RECOVERY NOTE BY US POWER SQUADRON 2003 (AFA)
AF7636 RECOVERED IN GOOD CONDITION.
AF7636
AF7636 STATION RECOVERY (2003)
AF7636
AF7636 RECOVERY NOTE BY POLK COUNTY FLORIDA 2003 (RWY)
AF7636 RECOVERED AS DESCRIBED. RECOVERY NOTE BY POLK COUNTY PROPERTY
AF7636 APPRAISER GIS DEPARTMENT.
AF7636
AF7636 STATION RECOVERY (2005)
AF7636
AF7636 RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2005 (ADJ)
AF7636 RECOVERED IN GOOD CONDITION.

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

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 = NOVEMBER 10, 2015
AF7020 *****
AF7020 DESIGNATION - POL 16 FLDNR
AF7020 PID - AF7020
AF7020 STATE/COUNTY- FL/POLK
AF7020 COUNTRY - US
AF7020 USGS QUAD - HESPERIDES (1972)
AF7020
AF7020 *CURRENT SURVEY CONTROL
AF7020
AF7020* NAD 83(1986) POSITION- 27 57 27. (N) 081 24 53. (W) SCALED
AF7020* NAVD 88 ORTHO HEIGHT - 19.299 (meters) 63.32 (feet) ADJUSTED
AF7020
AF7020 GEOID HEIGHT - -27.143 (meters) GEOID12B
AF7020 DYNAMIC HEIGHT - 19.270 (meters) 63.22 (feet) COMP
AF7020 MODELED GRAVITY - 979,148.6 (mgal) NAVD 88
AF7020
AF7020 VERT ORDER - SECOND CLASS II
AF7020
AF7020.The horizontal coordinates were scaled from a topographic map and have
AF7020.an estimated accuracy of +/- 6 seconds.
AF7020.
AF7020.The orthometric height was determined by differential leveling and
AF7020.adjusted by the NATIONAL GEODETIC SURVEY
AF7020.in June 1991.
AF7020
AF7020.Significant digits in the geoid height do not necessarily reflect accuracy.
AF7020.GEOID12B height accuracy estimate available here.
AF7020
AF7020.The dynamic height is computed by dividing the NAVD 88
AF7020.geopotential number by the normal gravity value computed on the
AF7020.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AF7020.degrees latitude (g = 980.6199 gals.).
AF7020
AF7020.The modeled gravity was interpolated from observed gravity values.
AF7020
AF7020; North East Units Estimated Accuracy
AF7020;SPC FL W - 401,640. 257,590. MT (+/- 180 meters Scaled)
AF7020
AF7020 SUPERSEDED SURVEY CONTROL
AF7020
AF7020 NGVD 29 (09/01/92) 19.667 (m) 64.52 (f) ADJUSTED 2 2
AF7020
AF7020.Superseded values are not recommended for survey control.
AF7020
AF7020.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AF7020.See file dsdata.txt to determine how the superseded data were derived.
AF7020
AF7020_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML592925(NAD 83)
AF7020
AF7020_MARKER: DB = BENCH MARK DISK
AF7020_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AF7020_STAMPING: POL 16 1983 BSM
AF7020_MARK LOGO: FLDNR
AF7020_PROJECTION: FLUSH
AF7020_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

```

AF7020+STABILITY: SURFACE MOTION
AF7020_SATELLITE: THE SITE LOCATION WAS REPORTED AS NOT SUITABLE FOR
AF7020+SATELLITE: SATELLITE OBSERVATIONS - April 18, 2005

AF7020

AF7020	HISTORY	- Date	Condition	Report By
AF7020	HISTORY	- 1983	MONUMENTED	FLDNR
AF7020	HISTORY	- 19950816	MARK NOT FOUND	USPSQD
AF7020	HISTORY	- 20020304	POOR	PICKET
AF7020	HISTORY	- 20030922	GOOD	FL-105
AF7020	HISTORY	- 20050418	GOOD	INDIV

AF7020

AF7020 STATION DESCRIPTION

AF7020

AF7020'DESCRIBED BY FL DEPT OF NAT RES 1983

AF7020'14.75 MI ENE FROM LAKE WALES.

AF7020'BEGIN IN LAKE WALES AT THE STATE HIGHWAY 60 BRIDGE OVER THE SCL

AF7020'RAILROAD, GO 8.25 MILES EAST ON HIGHWAY 60 TO THE INTERSECTION OF

AF7020'BOY SCOUT ROAD, GO 3.7 MILES NORTH ON BOY SCOUT ROAD TO CAMP MACK

AF7020'ROAD, GO 2.8 MILES EAST ON CAMP MACK ROAD TO THE MARK.

AF7020'THE MARK BEARS 24.0 FEET NORTH OF THE CENTERLINE OF CAMP MACK ROAD,

AF7020'70.0 FEET WEST OF THE CENTERLINE OF A DIRT ROAD (ROLLING MEADOW RANCH

AF7020'ROAD), AND 7.1 FEET WEST OF POWER POLE 621-1.

AF7020

AF7020 STATION RECOVERY (1995)

AF7020

AF7020'RECOVERY NOTE BY US POWER SQUADRON 1995

AF7020'MARK NOT FOUND.

AF7020

AF7020 STATION RECOVERY (2002)

AF7020

AF7020'RECOVERY NOTE BY PICKETT AND ASSOCIATES 2002 (HS)

AF7020'BROKEN TOP

AF7020

AF7020 STATION RECOVERY (2003)

AF7020

AF7020'RECOVERY NOTE BY POLK COUNTY FLORIDA 2003 (RWY)

AF7020'RECOVERED AS DESCRIBED. RECOVERY NOTE BY POLK COUNTY PROPERTY

AF7020'APPRAISER GIS DEPARTMENT. TOP NOT BROKEN OFF. POINT IS BESIDE BROKEN

AF7020'CM

AF7020

AF7020 STATION RECOVERY (2005)

AF7020

AF7020'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2005 (ADJ)

AF7020'RECOVERED IN GOOD CONDITION.

*** retrieval complete.

Elapsed Time = 00:00:05

Summary of Files Used and Option Settings

=====

Project Folder and Data Files

Project Name SNIVELY
Project Folder J:\2002\A020801.03\STARNET
Data File List Sniveley.dat

Project Option Settings

STAR*NET Run Mode : Adjust with Error Propagation
Type of Adjustment : Lev
Project Units : FeetUS
Input/Output Coordinate Order : North-East
Create Coordinate File : Yes

Instrument Standard Error Settings

Project Default Instrument
Differential Levels : 0.010000 FeetUS / Mile

Listing of Input Data

=====

[File: J:\2002\A020801.03\STARNET\SNIVELEY.DAT]

STAR*DNA Version 4.0.2

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Input Field File : J:\2002\A020801.03\levelpak\SNIVELY\Sniveley.RAW

Date Processed : 04-25-2005 13:18:52

.Units FeetUS

.Sep -

.3D

#NAVD88 BM ELEVATIONS

E 100 64.01 ! **PO9**

E 135 61.46 ! **K106**

Elevation Difference Records

Stations

L 100-112

L 112-123

L 123-129

L 129-133

L 133-135

Diff Dist Descriptor

-0.65000 6091

2.07600 5603

1.97500 3066

-3.76000 2395

-2.18600 757

Summary of Unadjusted Input Observations

=====

Number of Entered Stations (FeetUS) = 2

Fixed Stations	Elev	Description
100	64.0100	
135	61.4600	

Number of Differential Level Observations (FeetUS) = 5

From	To	Elev Diff	StdErr	Length
100	112	-0.6500	0.0107	6091
112	123	2.0760	0.0103	5603
123	129	1.9750	0.0076	3066
129	133	-3.7600	0.0067	2395
133	135	-2.1860	0.0038	757

Adjustment Statistical Summary

=====

Number of Stations = 6
Number of Observations = 5
Number of Unknowns = 4
Number of Redundant Obs = 1

Observation	Count	Sum Squares of StdRes	Error Factor
Level Data	5	0.074	0.271
Total	5	0.074	0.271

The Chi-Square Test at 5.00% Level Passed
Lower/Upper Bounds (0.031/2.241)

Adjusted Elevations and Error Propagation (FeetUS)

=====

Station	Elev	StdDev	95%	Description
100	64.0100	0.000000	0.000000	
135	61.4600	0.000000	0.000000	
112	63.3583	0.008725	0.017101	
123	65.4327	0.008768	0.017186	SNRH5
129	67.4069	0.007014	0.013747	KR1833
133	63.6462	0.003706	0.007263	KR1832

Adjusted Observations and Residuals

=====

Adjusted Differential Level Observations (FeetUS)

From	To	Elev Diff	Residual	StdErr	StdRes
100	112	-0.6517	-0.0017	0.0107	0.2
112	123	2.0744	-0.0016	0.0103	0.2
123	129	1.9741	-0.0009	0.0076	0.1
129	133	-3.7607	-0.0007	0.0067	0.1
133	135	-2.1862	-0.0002	0.0038	0.1

Elapsed Time = 00:00:00

SNIVELY-WELL . RAW

410041+?.....1
110042+00000123 83..11+00065430
110043+00000123 32..01+00022460 331107+00047450 52..07+0003+000
110044+00000201 32..01+00020500 332107+00009296 52..07+0003+003
110045+00000201 573..1+00001960 574..1+00042960 83..01+00069245
110046+00000201 32..01+00020520 331107+00011554 52..07+0003+002
110047+00000123 32..01+00022470 332107+00049713 52..07+0003+000
110048+00000123 573..1+00000010 574..1+00085950 83..01+00065430

SNIVELY-WELL.log

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Input Field File : J:\2002\A020801.03\levelpak\SNIVELY\SNIVELY-WELL.RAW
Output Data File : J:\2002\A020801.03\STARNET\SNIVELY-WELL.dat
Date Processed : 04-25-2005 13:36:02

Line	Point	Type	E	D	Sum E	Sum D	Desc
3	123	B	4.7450	22.4600	0.0000	0.0000	
4	201	F	0.9296	20.5000	3.8154	42.9600	
Line	Point	Type	E	D	Sum E	Sum D	Desc
6	201	B	1.1554	20.5200	0.0000	0.0000	
7	123	F	4.9713	22.4700	-3.8159	42.9900	

Process completed with 0 errors and 0 warnings.

Summary of Files Used and Option Settings
=====

Project Folder and Data Files

Project Name SNIVELY
Project Folder J:\2002\A020801.03\STARNET
Data File List SNIVELY-WELL.dat

Project Option Settings

STAR*NET Run Mode : Adjust with Error Propagation
Type of Adjustment : Lev
Project Units : FeetUS
Input/Output Coordinate Order : North-East
Create Coordinate File : Yes

Instrument Standard Error Settings

Project Default Instrument
Differential Levels : 0.010000 FeetUS / Mile

Listing of Input Data

=====

[File: J:\2002\A020801.03\STARNET\SNIVELY-WELL.DAT]

STAR*DNA Version 4.0.2

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Input Field File : J:\2002\A020801.03\levelpak\SNIVELY\SNIVELY-WELL.RAW

Date Processed : 04-25-2005 13:36:02

.Units FeetUS

.Sep -

.3D

#ADJUSTED NAVD88 ELEVATIONS

E 123 65.43 !

Elevation Difference Records

Stations

	Diff	Dist	Descriptor
--	------	------	------------

L 123-201	3.81540	43	
-----------	---------	----	--

L 201-123	-3.81590	43	
-----------	----------	----	--

Summary of Unadjusted Input Observations

=====

Number of Entered Stations (FeetUS) = 1

Fixed Stations	Elev	Description
123	65.4300	

Number of Differential Level Observations (FeetUS) = 2

From	To	Elev Diff	StdErr	Length
123	201	3.8154	0.0009	43
201	123	-3.8159	0.0009	43

Adjustment Statistical Summary

=====

Number of Stations = 2
Number of Observations = 2
Number of Unknowns = 1
Number of Redundant Obs = 1

Observation	Count	Sum Squares of StdRes	Error Factor
Level Data	2	0.153	0.392
Total	2	0.153	0.392

The Chi-Square Test at 5.00% Level Passed
Lower/Upper Bounds (0.031/2.241)

Adjusted Elevations and Error Propagation (FeetUS)

Station	Elev	StdDev	95%	Description
123	65.4300	0.000000	0.000000	
201	69.2457	0.000638	0.001251	

Adjusted Observations and Residuals

=====

Adjusted Differential Level Observations (FeetUS)

From	To	Elev Diff	Residual	StdErr	StdRes
123	201	3.8157	0.0003	0.0009	0.3
201	123	-3.8157	0.0002	0.0009	0.3

Elapsed Time = 00:00:00

Sniveley.RAW

410001+?......1
110002+00000100 83..11+00064010
110003+00000100 32..01+00294350 331101+00005052
110004+00000001 32..01+00304970 332101+00004733
110005+00000001 573..1-00010620 574..1+00599320 83..01+00064329
110006+00000001 32..01+00304570 331101+00005286
110007+00000002 32..01+00331710 332101+00004985
110008+00000002 573..1-00037770 574..1+01235600 83..01+00064630
110009+00000002 32..01+00331820 331101+00005221
110010+00000003 32..01+00302640 332101+00004333
110011+00000003 573..1-00008590 574..1+01870060 83..01+00065517
110012+00000003 32..01+00334980 331101+00004802
110013+00000004 32..01+00305780 332101+00004812
110014+00000004 573..1+00020610 574..1+02510820 83..01+00065507
110015+00000004 32..01+00306930 331101+00004213
110016+00000005 32..01+00298930 332101+00004876
110017+00000005 573..1+00028610 574..1+03116690 83..01+00064845
110018+00000005 32..01+00052910 331101+00004365
110019+00000006 32..01+00050080 332101+00006007
110020+00000006 573..1+00031450 574..1+03219670 83..01+00063203
110021+00000006 32..01+00316840 331101+00006694
110022+00000007 32..01+00309910 332101+00004842
110023+00000007 573..1+00038380 574..1+03846420 83..01+00065055
110024+00000007 32..01+00324320 331101+00004530
110025+00000008 32..01+00317700 332101+00005125
110026+00000008 573..1+00045000 574..1+04488430 83..01+00064460
110027+00000008 32..01+00322660 331101+00004941
110028+00000009 32..01+00294320 332101+00005060
110029+00000009 573..1+00073340 574..1+05105410 83..01+00064342
110030+00000009 32..01+00160090 331101+00004377
110031+00000010 32..01+00181210 332101+00007216
110032+00000010 573..1+00052220 574..1+05446720 83..01+00061502
110033+00000010 32..01+00230750 331101+00006736
110034+00000011 32..01+00291280 332101+00004308
110035+00000011 573..1-00008300 574..1+05968750 83..01+00063931
110036+00000011 32..01+00067460 331101+00004026
110037+00000112 32..01+00054520 332101+00004596
110038+00000112 573..1+00004640 574..1+06090730 83..01+00063361
110039+00000112 32..01+00084370 331101+00005134
110040+00000013 32..01+00156030 332101+00004067
110041+00000013 573..1-00067020 574..1+06331140 83..01+00064428
110042+00000013 32..01+00179060 331101+00004975
110043+00000014 32..01+00286690 332101+00003834
110044+00000014 573..1-00174650 574..1+06796880 83..01+00065569
110045+00000014 32..01+00278500 331101+00005722
110046+00000015 32..01+00256200 332101+00004479
110047+00000015 573..1-00152350 574..1+07331590 83..01+00066812
110048+00000015 32..01+00299190 331101+00005459
110049+00000016 32..01+00272930 332101+00005181
110050+00000016 573..1-00126090 574..1+07903710 83..01+00067090
110051+00000016 32..01+00319180 331101+00004958
110052+00000017 32..01+00252900 332101+00004598
110053+00000017 573..1-00059810 574..1+08475780 83..01+00067450
110054+00000017 32..01+00319320 331101+00004955
110055+00000018 32..01+00333380 332101+00004242
110056+00000018 573..1-00073880 574..1+09128480 83..01+00068163
110057+00000018 32..01+00319920 331101+00004224
110058+00000019 32..01+00271650 332101+00004895
110059+00000019 573..1-00025600 574..1+09720050 83..01+00067492
110060+00000019 32..01+00305680 331101+00004594
110061+00000020 32..01+00187400 332101+00004571
110062+00000020 573..1+00092680 574..1+10213140 83..01+00067515
110063+00000020 32..01+00307850 331101+00004321
110064+00000021 32..01+00304850 332101+00005744
110065+00000021 573..1+00095680 574..1+10825830 83..01+00066092
110066+00000021 32..01+00214800 331101+00004899
110067+00000022 32..01+00290150 332101+00004877

Sniveley.RAW

110068+00000022	573..1+00020330	574..1+11330780	83..01+00066114
110069+00000022	32..01+00278880	331101+00004029	
110070+00000123	32..01+00083680	332101+00004706	
110071+00000123	573..1+00215530	574..1+11693340	83..01+00065437
110072+00000123	32..01+00083630	331101+00004395	
110073+00000024	32..01+00138780	332101+00003838	
110074+00000024	573..1+00160380	574..1+11915760	83..01+00065994
110075+00000024	32..01+00292340	331101+00005520	
110076+00000025	32..01+00283410	332101+00004149	
110077+00000025	573..1+00169310	574..1+12491500	83..01+00067366
110078+00000025	32..01+00276970	331101+00003935	
110079+00000026	32..01+00301540	332101+00004165	
110080+00000026	573..1+00144740	574..1+13070010	83..01+00067136
110081+00000026	32..01+00321530	331101+00005023	
110082+00000027	32..01+00188430	332101+00005027	
110083+00000027	573..1+00277840	574..1+13579970	83..01+00067132
110084+00000027	32..01+00298620	331101+00004928	
110085+00000028	32..01+00293620	332101+00004034	
110086+00000028	573..1+00282840	574..1+14172200	83..01+00068025
110087+00000028	32..01+00292440	331101+00004731	
110088+00000129	32..01+00295180	332101+00005344	
110089+00000129	573..1+00280100	574..1+14759830	83..01+00067412
110090+00000129	32..01+00298840	331101+00004758	
110091+00000030	32..01+00293050	332101+00004820	
110092+00000030	573..1+00285890	574..1+15351720	83..01+00067351
110093+00000030	32..01+00300960	331101+00005307	
110094+00000031	32..01+00300900	332101+00005103	
110095+00000031	573..1+00285950	574..1+15953580	83..01+00067555
110096+00000031	32..01+00319030	331101+00004431	
110097+00000032	32..01+00285080	332101+00005230	
110098+00000032	573..1+00319890	574..1+16557690	83..01+00066756
110099+00000032	32..01+00289970	331101+00004021	
110100+00000133	32..01+00307170	332101+00007124	
110101+00000133	573..1+00302690	574..1+17154840	83..01+00063653
110102+00000133	32..01+00217480	331101+00004590	
110103+00000034	32..01+00137780	332101+00004760	
110104+00000034	573..1+00382400	574..1+17510100	83..01+00063482
110105+00000034	32..01+00191480	331101+00004673	
110106+00000135	32..01+00210650	332101+00006689	
110107+00000135	573..1+00363230	574..1+17912230	83..01+00061466

sniveley.log

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Input Field File : J:\2002\A020801.03\levelpak\SNIVELY\Sniveley.RAW
Output Data File : J:\2002\A020801.03\STARNET\Sniveley.dat
Date Processed : 04-25-2005 13:18:52

Line	Point	Type	E	D	Sum E	Sum D	Desc
3	100	B	5.0520	294.3500	0.0000	0.0000	
4		F	4.7330	304.9700	0.3190	599.3200	
6		B	5.2860	304.5700			
7		F	4.9850	331.7100	0.6200	1235.6000	
9		B	5.2210	331.8200			
10		F	4.3330	302.6400	1.5080	1870.0600	
12		B	4.8020	334.9800			
13		F	4.8120	305.7800	1.4980	2510.8200	
15		B	4.2130	306.9300			
16		F	4.8760	298.9300	0.8350	3116.6800	
18		B	4.3650	52.9100			
19		F	6.0070	50.0800	-0.8070	3219.6700	
21		B	6.6940	316.8400			
22		F	4.8420	309.9100	1.0450	3846.4200	
24		B	4.5300	324.3200			
25		F	5.1250	317.7000	0.4500	4488.4400	
27		B	4.9410	322.6600			
28		F	5.0600	294.3200	0.3310	5105.4200	
30		B	4.3770	160.0900			
31		F	7.2160	181.2100	-2.5080	5446.7200	
33		B	6.7360	230.7500			
34		F	4.3080	291.2800	-0.0800	5968.7500	
36		B	4.0260	67.4600			
37	112	F	4.5960	54.5200	-0.6500	6090.7300	

Line	Point	Type	E	D	Sum E	Sum D	Desc
39	112	B	5.1340	84.3700	0.0000	0.0000	
40		F	4.0670	156.0300	1.0670	240.4000	
42		B	4.9750	179.0600			
43		F	3.8340	286.6900	2.2080	706.1500	
45		B	5.7220	278.5000			
46		F	4.4790	256.2000	3.4510	1240.8500	
48		B	5.4590	299.1900			
49		F	5.1810	272.9300	3.7290	1812.9700	
51		B	4.9580	319.1800			
52		F	4.5980	252.9000	4.0890	2385.0500	
54		B	4.9550	319.3200			
55		F	4.2420	333.3800	4.8020	3037.7500	
57		B	4.2240	319.9200			
58		F	4.8950	271.6500	4.1310	3629.3200	
60		B	4.5940	305.6800			
61		F	4.5710	187.4000	4.1540	4122.4000	
63		B	4.3210	307.8500			
64		F	5.7440	304.8500	2.7310	4735.1000	
66		B	4.8990	214.8000			
67		F	4.8770	290.1500	2.7530	5240.0500	
69		B	4.0290	278.8800			
70	123	F	4.7060	83.6800	2.0760	5602.6100	

Line	Point	Type	E	D	Sum E	Sum D	Desc
72	123	B	4.3950	83.6300	0.0000	0.0000	
73		F	3.8380	138.7800	0.5570	222.4100	
75		B	5.5200	292.3400			
76		F	4.1490	283.4100	1.9280	798.1600	
78		B	3.9350	276.9700			
79		F	4.1650	301.5400	1.6980	1376.6700	
81		B	5.0230	321.5300			
82		F	5.0270	188.4300	1.6940	1886.6300	

sniveley.log						
Line	Point	Type	E	D	Sum E	Sum D Desc
84		B	4.9280	298.6200		
85		F	4.0340	293.6200	2.5880	2478.8700
87		B	4.7310	292.4400		
88	129	F	5.3440	295.1800	1.9750	3066.4900
90	129	B	4.7580	298.8400	0.0000	0.0000
91		F	4.8200	293.0500	-0.0620	591.8900
93		B	5.3070	300.9600		
94		F	5.1030	300.9000	0.1420	1193.7500
96		B	4.4310	319.0300		
97		F	5.2300	285.0800	-0.6570	1797.8600
99		B	4.0210	289.9700		
100	133	F	7.1240	307.1700	-3.7600	2395.0000
102	133	B	4.5900	217.4800	0.0000	0.0000
103		F	4.7600	137.7800	-0.1700	355.2600
105		B	4.6730	191.4800		
106	135	F	6.6890	210.6500	-2.1860	757.3900

Process completed with 0 errors and 0 warnings.