

Identification\_Information:

Citation:

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**Consul-Tech  
Surveying &  
Mapping Inc.**

Originator: Robert J. Bills(comp.)  
Originator: U. S. Army Engineer District, Jacksonville (ed.)  
Publication\_Date: Unpublished material  
Publication\_Time: Unknown  
Title: S. F. W. M. D. Well WF-03  
Edition: 1  
Publication\_Information:  
Publication\_Place: Not published  
Publisher: None  
Online\_Linkage: bbills@cte.cc

Description:

Abstract:

South Florida Water Management District  
Well WF-03

**Purpose**

Purpose:

To establish NAVD 88 and NGVD 29 elevations on the well platform at the reference mark. Also establish a nearby site benchmark.

Supplemental\_Information:

To access property contact Mr. Tom Kirschner  
Wildcat Farms  
(239) 368-0221  
(239) 368-6111  
There is a lock on the well.  
See point of contact for key.

Time\_Period\_of\_Content:

**Survey Date**

Time\_Period\_Information:

Single\_Date/Time:

Calendar\_Date: 20030321  
Time\_of\_Day: 17000000

Currentness\_Reference: Date and time of field work

Status:

Progress: Complete

Maintenance\_and\_Update\_Frequency: Unknown

Spatial\_Domain:

Bounding\_Coordinates:

West\_Bounding\_Coordinate: -081° 36' 46. 15"  
East\_Bounding\_Coordinate: -081° 36' 46. 15"  
North\_Bounding\_Coordinate: +26° 29' 32. 73"  
South\_Bounding\_Coordinate: +26° 29' 32. 73"

Keywords:

Theme:

Theme\_Keyword\_Thesaurus: None  
Theme\_Keyword: Record Survey  
Theme\_Keyword: Well Site

Place:

Place\_Keyword\_Thesaurus: None  
Place\_Keyword: S. F. W. M. D. Well WF-03  
Place\_Keyword: Sec. 09, Twp. 46 S., Rge 27 E.  
Place\_Keyword: Lee County, Florida  
Place\_Keyword\_Thesaurus: Geographic Names Information System  
Place\_Keyword: Florida  
Place\_Keyword: Lee County  
Place\_Keyword: Wildcat Farms

Access\_Constraints: None

Use\_Constraints: None

Point\_of\_Contact:

Contact\_Information:

**Clyde Dabbs  
SFWMD**

Contact\_Person\_Primary:

Contact\_Person: Clyde Dabbs

Contact\_Organization: South Florida Water Management

District

Contact\_Address:

Address\_Type: mailing and physical address  
Address: 2301 McGregor Boulevard  
City: Fort Myers  
State\_or\_Province: Florida

WF-03.met  
Postal\_Code: 33901  
Country: USA  
Contact\_Voice\_Telephone: (239) 338-2929 ex 7759  
Contact\_Facsimile\_Telephone: (239) 338-2936  
Contact\_Electronic\_Mail\_Address: cdabbsjr@sfwmd.gov  
Hours\_of\_Service: 8:00 am to 5:00 pm EST

Data\_Quality\_Information:

Attribute\_Accuracy:

Attribute\_Accuracy\_Report:

**Equipment Used**

This survey was prepared using GPS and Leveling instruments. The horizontal locations of the well and benchmark was performed using GPS. The vertical data was collected using a Wild NA2 Level. Coordinates are based on the Florida State Plane Coordinate System, **West Zone**, NAD 83/90. Elevations are based on NAVD 88 and NGVD 29.

Logical\_Consistency\_Report:

Horizontal data was established using sub-meter GPS equipment. Vertical data was established using NGS control points W 244 and P 533. Coordinates are based on the Florida State Plane Coordinate System, West Zone, NAD 83/90. Elevations are based on NAVD 88 and NGVD 29.

Completeness\_Report:

**Project Results**

Horizontal location taken at approximate center of well.

Lat. +26°29'32.73"

Long. -081°36'46.15"

N 784862'

E 782802'

MP -- Existing reference mark on platform is a marked square with an NGVD 29 elevation of 36.30' marked inside.

New leveled elevations.

32.43' NAVD 88

33.64' NGVD 29 based on NGS NGVD 29 adjustment of CERP vertical network.

Staff gage bolt elevation 33.72' on gage.

29.87' NAVD 88

31.08' NGVD 29 based on NGS NGVD 29 adjustment of CERP vertical network.

Site Benchmark.

"LC-4" is a 2" aluminum disc, in concrete, bearing So. Fla. Water Management Dist., LC-4, 1998, found on the north side of the gravel road, 19 feet north of a metal witness post.

To reach from the intersection of SR-29 and SR-82 (South of Labelle, Florida); Go west along SR-82, 8.6 miles, to the farm entrance (Citrus Co'op) on the south side of the road; Go south through the gate for 1.0 mile to a "T" intersection; Go right and meander along a dirt road

1.7 miles to the office on the left; Continue 0.2 mile to a "T" intersection; Go right 0.4 mile to LC-4.

United States Department of the Interior Geologic Survey Quadrangle map -- CORKSCREW

horizontal location.

Lat. +26°29'35.37"

Long. -081°36'48.63"

N 785128'

E 782576'

Elevations.

31.64' (NAVD 88)

32.90' (NGVD 29) From site worksheet

32.93' (NGVD 29) From SFWMD Benchmark Database

32.85' (NGVD 29) based on NGS NGVD 29 adjustment of CERP vertical network

Positional\_Accuracy:

Horizontal\_Positional\_Accuracy:

**Horizontal**

Horizontal\_Positional\_Accuracy\_Report:

The horizontal position of the well WF-03 and benchmark LC-4, was established using a differential,

WF-03.met

submeter, wide area augmentation system, GPS, using Coast Guard and FAA beacons for corrected positioning (Trimble Geoplotter CE with Beacon on a Belt) in accordance with the Florida Minimum Technical Standards (Chapter 61G17-6).

Quantitative\_Horizontal\_Positional\_Accuracy\_Assessment:

Horizontal\_Positional\_Accuracy\_Value: 1 meter

Horizontal\_Positional\_Accuracy\_Explanation: The intended

positional accuracy for this survey is 1 meter.

Vertical\_Positional\_Accuracy:

Vertical\_Positional\_Accuracy\_Report:

## Level Line

A level line was run originating on BM W 244 with an NAVD 88 elevation, running through LEE-3, LEE-15, LEE-16, LEE-6, LC-6, LC-7, LEE-19, LEE-18, LC-8, LC-4, LC-10, LEE-17 and terminating on BM P 533 in accordance with Florida Minimum Technical Standards (Chapter 61G17-6).

The level line was also readjusted using the values from the NGS NGVD 29 adjustment of the CERP vertical network.

Quantitative\_Vertical\_Positional\_Accuracy\_Assessment:

Vertical\_Positional\_Accuracy\_Value: -0.051 meter

Vertical\_Positional\_Accuracy\_Explanation: NAVD 88 level

run, 0.051 meter closure in 36,810 meters, max. allowed 0.073 meter (MTS)

Quantitative\_Vertical\_Positional\_Accuracy\_Assessment:

Vertical\_Positional\_Accuracy\_Value: -0.060 meter

Vertical\_Positional\_Accuracy\_Explanation: NGVD 29 level

run, 0.060 meter closure in 36,810 meters, max. allowed 0.073 meter (MTS)

Lineage:

Process\_Step:

Process\_Description:

The horizontal work was performed using Trimble Geoplotter CE with Beacon on a Belt GPS.

The level line was performed using a Wild NA2 level.

Three wire methodology was used.

Process\_Date: 20030324

Process\_Time: 17000000

Metadata\_Reference\_Information:

Metadata\_Date: 20030330

Metadata\_Contact:

Contact\_Information:

Contact\_Person\_Primary:

Contact\_Person: Joseph S. Boggs

Contact\_Organization: Consul-Tech Surveying & Mapping

Contact\_Position: Project Surveyor

Contact\_Address:

Address\_Type: mailing and physical address

Address: 24831 Old 41 Road

City: Bonita Springs

State\_or\_Province: Florida

Postal\_Code: 34135

Country: USA

Contact\_Voice\_Telephone: (239) 947-0266

Contact\_Facsimile\_Telephone: (239) 947-1323

Contact\_Electronic\_Mail\_Address: j.boggs@cte.cc

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

Metadata\_Standard\_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata\_Standard\_Version: FGDC-STD-001-1998

# S.F.W.M.D. Well – WF-03



Consul-Tech Surveying & Mapping, Inc.

Date of Survey: March 24, 2003

Looking: Southerly

# S.F.W.M.D. Well – WF-03



Consul-Tech Surveying & Mapping, Inc.

Date of Survey: March 24, 2003

Looking: Southerly

## S.F.W.M.D. Well – WF-03



Consul-Tech Surveying & Mapping, Inc.

Date of Survey: March 24, 2003

Looking: Southerly

# S.F.W.M.D. Well – WF-03



Consul-Tech Surveying & Mapping, Inc.

Date of Survey: March 24, 2003

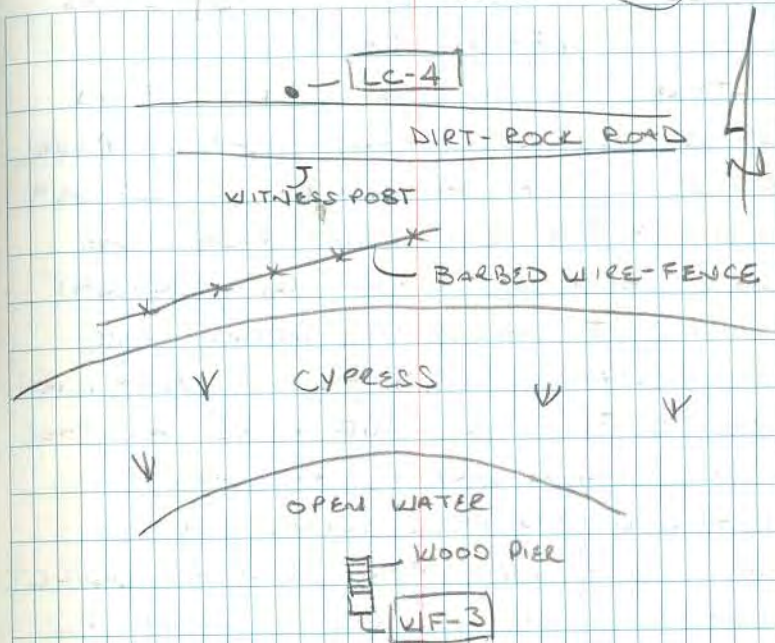
C. ROSK / T. MULLINIX 3/13/03  
WF-3 / LC-4

LOCATION: FROM THE INTX OF SR 29 AND  
SR-82 GO WEST APPROX 8.6 MI ALONG  
SR-82 TO A FARM ENTRANCE (CITRUS CO-OP)  
GO THROUGH GATE SOUTH APPROX 1.0 MI  
AND GO RIGHT @ THE "T" INTX. MEANDER  
ALONG DIRT ROAD 1.7 MI TO THE OFFICE  
ON LEFT. ANOTHER 0.2 MI AND GO  
RIGHT @ "T". GO ANOTHER 0.4 MI TO  
LC-4 (2" ALUM DISC IN CONC BEARING  
SO FLA WATER MANAGEMENT DIST  
SURVEY MARKER <sup>1998</sup> LC-4) ON THE NORTH  
SIDE OF GRAVEL ROAD 19.0 FEET NORTH  
OF A METAL WITNESS POST. WF-3  
IS APPROX 350' SOUTH-SOUTHEAST  
OF LC-4, TO A WOOD PIER WITH THE  
BOX @ THE SOUTH END.

SAC'S ARE FL WEST / NAD 83 ) FEET  
OBTAINED USING TRIMBLE GEO EXPLORER CE  
SER# 4244014618 WITH A BEACON ON A  
BELT.

WF-3 N 784862.2 (F)  
E 782802.3 (F)  
LC-4 N 785127.5 (F)  
E 782575.8 (F)

516-39

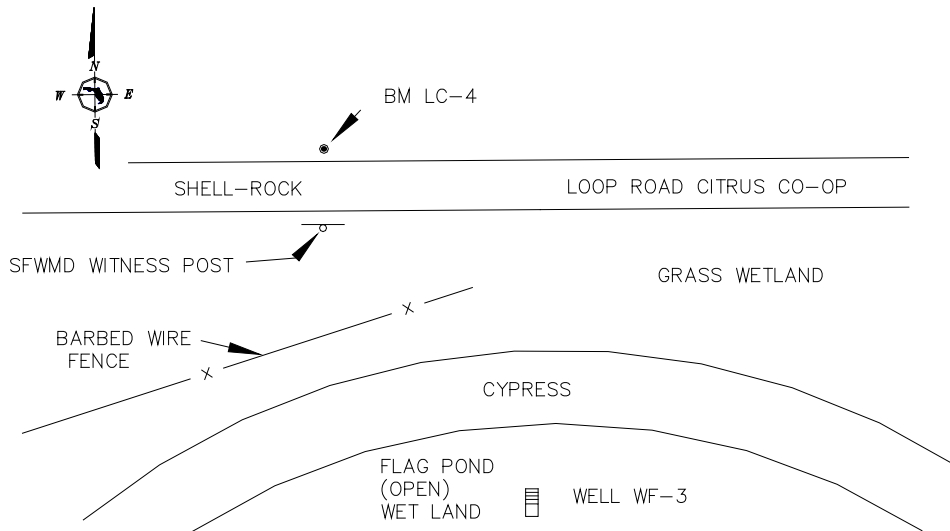






<b>COUNTY LEE</b>		<b>PROJECT WELLS</b>		<b>DESIGNATION LC-4</b>	
<b>SECTION 09</b>		<b>TOWNSHIP 46 SOUTH</b>		<b>RANGE 27 EAST</b>	
<b>GEOGRAPHIC INDEX OF QUAD Florida</b>					
Established by Consul-Tech Surveying and Mapping, inc.			NAME OF QUADRANGLE <b>CORKSCREW</b>		
SURVEYOR <u>Joseph S. Boggs</u> DATE <u>3 / 24 / 2003</u>			FIELD BOOK <u>516-6</u> PAGE <u>21</u>		
HORIZONTAL DATUM: <b>83/90</b>		ZONE <b>WEST</b>			
VERTICAL DATUM: <b>NAVD 88 &amp; NGVD 29 (Based on NGS adjustment of CERP vertical network)</b>					
CONTROL ACCURACY: <b>HORIZONTAL SUB-METER</b>		VERTICAL <b>3<sup>rd</sup> Order</b>			
STATE PLANE COORDINATES Feet		<b>X=782576</b>	<b>Y=785128</b>	<b>EL.=31.64' (NAVD 88)</b> <b>EL.=32.85' (NGVD 29)</b>	
LATITUDE <b>26°29'35.37" N</b>			LONGITUDE <b>081°36'48.63" W</b>		
<b>DESCRIPTION</b>					
To Reach: To reach from the intersection of SR-29 and SR-82 (South of Labelle, Florida); Go west along SR-82, 8.6 miles, to the farm entrance (Citrus Co'op) on the south side of the road; Go south through the gate for 1.0 mile to a "T" intersection; Go right and meander along a dirt road 1.7 miles to the office on the left; Continue 0.2 mile to a "T" intersection; Go right 0.4 mile to LC-4.					
"LC-4" is a 2" aluminum disc, in concrete, bearing So. Fla. Water Management Dist., LC-4, 1998, found on the north side of the gravel road, 19 feet north of a metal witness post.					

SKETCH





# The NGS Data Sheet

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

```

DATABASE = ,PROGRAM = datasheet, VERSION = 7.58
1 National Geodetic Survey, Retrieval Date = MARCH 7, 2008
AD1343 *****
AD1343 DESIGNATION - W 244
AD1343 PID - AD1343
AD1343 STATE/COUNTY- FL/LEE
AD1343 USGS QUAD - ESTERO (1987)
AD1343
AD1343 *CURRENT SURVEY CONTROL
AD1343
AD1343 * NAD 83(1986)- 26 26 32. (N) 081 48 38. (W) SCALED
AD1343 * NAVD 88 - 3.761 (meters) 12.34 (feet) ADJUSTED
AD1343
AD1343 GEOID HEIGHT- -24.06 (meters) GEOID03
AD1343 DYNAMIC HT - 3.755 (meters) 12.32 (feet) COMP
AD1343 MODELED GRAV- 979,055.8 (mgal) NAVD 88
AD1343
AD1343 VERT ORDER - FIRST CLASS I
AD1343
AD1343.The horizontal coordinates were scaled from a topographic map and have
AD1343.an estimated accuracy of +/- 6 seconds.
AD1343
AD1343.The orthometric height was determined by differential leveling
AD1343.and adjusted in September 1992.
AD1343
AD1343.The geoid height was determined by GEOID03.
AD1343
AD1343.The dynamic height is computed by dividing the NAVD 88
AD1343.geopotential number by the normal gravity value computed on the
AD1343.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AD1343.degrees latitude (g = 980.6199 gals.).
AD1343
AD1343.The modeled gravity was interpolated from observed gravity values.
AD1343
AD1343; North East Units Estimated Accuracy
AD1343;SPC FL W - 233,620. 218,890. MT (+/- 180 meters Scaled)
AD1343
AD1343 SUPERSEDED SURVEY CONTROL
AD1343
AD1343 NAVD 88 (06/15/91) 3.769 (m) 12.37 (f) UNKNOWN 1 1
AD1343 NGVD 29 (09/01/92) 4.127 (m) 13.54 (f) ADJUSTED 1 1
AD1343
AD1343.Superseded values are not recommended for survey control.
AD1343.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AD1343.See file dsdata.txt to determine how the superseded data were derived.
AD1343
AD1343_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMK191249(NAD 83)
AD1343_MARKER: DB = BENCH MARK DISK
AD1343_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AD1343_SP_SET: CONCRETE POST
AD1343_STAMPING: W 244 1965
AD1343_MARK LOGO: CGS
AD1343_MAGNETIC: N = NO MAGNETIC MATERIAL
AD1343_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AD1343+STABILITY: SURFACE MOTION
AD1343_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AD1343+SATELLITE: SATELLITE OBSERVATIONS - April 08, 1992
AD1343
AD1343 HISTORY - Date Condition Report By
AD1343 HISTORY - 1965 MONUMENTED CGS
AD1343 HISTORY - 1974 GOOD NGS
AD1343 HISTORY - 1981 GOOD FLDT
AD1343 HISTORY - 1983 GOOD USPSQD
AD1343 HISTORY - 1987 GOOD USPSQD
AD1343 HISTORY - 1987 GOOD USPSQD
AD1343 HISTORY - 1988 GOOD USPSQD
AD1343 HISTORY - 1988 GOOD USPSQD
AD1343 HISTORY - 1989 GOOD USPSQD
AD1343 HISTORY - 1990 GOOD USPSQD

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## DATASHEETS

AD1343 HISTORY - 19920408 GOOD NGS  
AD1343 HISTORY - 19990111 GOOD USPSQD

AD1343 STATION DESCRIPTION

AD1343 DESCRIBED BY COAST AND GEODETIC SURVEY 1965  
AD1343 AT ESTERO.  
AD1343 ABOUT 0.5 MILE NORTH ALONG U.S. HIGHWAY 41 FROM THE HIGHWAY  
AD1343 BRIDGE OVER ESTERO RIVER, ON THE OUTSIDE AND AT THE SOUTH END  
AD1343 OF A LONG CURVE WITH TANGENT'S EXTENDING SOUTH AND NORTHWEST,  
AD1343 231 FEET NORTHEAST OF THE CENTER OF THE INTERSECTION OF A BLACK  
AD1343 TOP ROAD, 125 FEET EAST OF THE CENTER LINE OF THE HIGHWAY,  
AD1343 222 FEET NORTH OF THE CENTER LINE OF THE ROAD EAST, 2 1/2 FEET  
AD1343 SOUTH OF A TELEPHONE POLE, 1.6 FEET NORTH OF A METAL WITNESS  
AD1343 POST, 6 FEET BELOW THE LEVEL OF THE HIGHWAY AND IS A DISK IN  
AD1343 THE TOP OF A CONCRETE POST PROJECTING 0.1 FOOT. IN SECTION 28,  
AD1343 R 25 E, T 46 S.

AD1343 STATION RECOVERY (1974)

AD1343 RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1974  
AD1343 RECOVERED IN GOOD CONDITION.

AD1343 STATION RECOVERY (1981)

AD1343 RECOVERY NOTE BY FLORIDA DEPARTMENT OF TRANSPORTATION 1981  
AD1343 RECOVERED IN GOOD CONDITION.

AD1343 STATION RECOVERY (1983)

AD1343 RECOVERY NOTE BY US POWER SQUADRON 1983  
AD1343 BLACK TOP ROAD IS BROADWAY. WITNESS POST INTACT. ELEVATION OF THIS  
AD1343 MARK IS 13.556 FEET ABOVE SEA LEVEL.

AD1343 STATION RECOVERY (1987)

AD1343 RECOVERY NOTE BY US POWER SQUADRON 1987 (HEA)  
AD1343 RECOVERED IN GOOD CONDITION.

AD1343 STATION RECOVERY (1987)

AD1343 RECOVERY NOTE BY US POWER SQUADRON 1987 (DHP)  
AD1343 RECOVERED IN GOOD CONDITION.

AD1343 STATION RECOVERY (1988)

AD1343 RECOVERY NOTE BY US POWER SQUADRON 1988 (DHP)  
AD1343 RECOVERED IN GOOD CONDITION.

AD1343 STATION RECOVERY (1988)

AD1343 RECOVERY NOTE BY US POWER SQUADRON 1988 (HEA)  
AD1343 RECOVERED IN GOOD CONDITION.

AD1343 STATION RECOVERY (1989)

AD1343 RECOVERY NOTE BY US POWER SQUADRON 1989 (DHP)  
AD1343 RECOVERED IN GOOD CONDITION.

AD1343 STATION RECOVERY (1990)

AD1343 RECOVERY NOTE BY US POWER SQUADRON 1990 (HEA)  
AD1343 RECOVERED IN GOOD CONDITION.

AD1343 STATION RECOVERY (1992)

AD1343 RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1992  
AD1343 19.0 KM (11.80 MI) SOUTHERLY ALONG U.S. HIGHWAY 41 FROM THE JUNCTION  
AD1343 OF STATE HIGHWAY 884 IN FORT MYERS, 67.7 M (222.1 FT) NORTH OF THE  
AD1343 CENTERLINE OF BROADWAY EAST, 20.9 M (68.6 FT) EAST OF THE CENTERLINE  
AD1343 OF THE NORTHBOUND LANES OF THE HIGHWAY, 2.0 M (6.6 FT) BELOW THE  
AD1343 LEVEL OF THE HIGHWAY, 0.8 M (2.6 FT) SOUTH OF UTILITY POLE NUMBER  
AD1343 513-130, 0.5 M (1.6 FT) NORTH OF A WITNESS POST, 0.2 M (0.7 FT) WEST  
AD1343 OF A WITNESS POST, AND THE MONUMENT PROJECTS 0.3 M (1.0 FT) ABOVE THE  
AD1343 GROUND SURFACE.

AD1343 STATION RECOVERY (1999)

AD1343 RECOVERY NOTE BY US POWER SQUADRON 1999  
AD1343 RECOVERED IN GOOD CONDITION.

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

Line/Part: L26242 SSN+: mark floated, SSN\*: mark constrained, SSN#: mark floated & constrained

Mark ID	SSN	PID	Designation	Geopotential	Elevation	Codes
1708	2814	AJ7541	P 533	9.2820	9.4714	
1709	2815	AJ7542	Q 533	9.4165	9.6087	

## The NGS Data Sheet

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

```

DATABASE = ,PROGRAM = datasheet, VERSION = 7.58
1 National Geodetic Survey, Retrieval Date = MARCH 7, 2008
AJ7541 *****
AJ7541 DESIGNATION - P 533
AJ7541 PID - AJ7541
AJ7541 STATE/COUNTY- FL/LEE
AJ7541 USGS QUAD - ALVA SE (1973)
AJ7541
AJ7541 *CURRENT SURVEY CONTROL
AJ7541
AJ7541 * NAD 83(2007)- 26 31 21.00780(N) 081 34 45.70176(W) ADJUSTED
AJ7541 * NAVD 88 - 9.100 (meters) 29.86 (feet) ADJUSTED
AJ7541
AJ7541 EPOCH DATE - 2002.00
AJ7541 X - 836,270.544 (meters) COMP
AJ7541 Y - -5,649,131.743 (meters) COMP
AJ7541 Z - 2,830,969.038 (meters) COMP
AJ7541 LAPLACE CORR- -0.45 (seconds) DEFLEC99
AJ7541 ELLIP HEIGHT- -15.284 (meters) (02/10/07) ADJUSTED
AJ7541 GEOID HEIGHT- -24.40 (meters) GEOID03
AJ7541 DYNAMIC HT - 9.085 (meters) 29.81 (feet) COMP
AJ7541
AJ7541 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----
AJ7541 Type PID Designation North East Ellip
AJ7541 -----
AJ7541 NETWORK AJ7541 P 533 0.49 0.47 1.25
AJ7541 -----
AJ7541 MODELED GRAV- 979,058.5 (mgal) NAVD 88
AJ7541
AJ7541 VERT ORDER - FIRST CLASS II
AJ7541
AJ7541 .The horizontal coordinates were established by GPS observations
AJ7541 .and adjusted by the National Geodetic Survey in February 2007.
AJ7541
AJ7541 .The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).
AJ7541 .See National Readjustment for more information.
AJ7541 .The horizontal coordinates are valid at the epoch date displayed above.
AJ7541 .The epoch date for horizontal control is a decimal equivalence
AJ7541 .of Year/Month/Day.
AJ7541
AJ7541 .The orthometric height was determined by differential leveling
AJ7541 .and adjusted in February 2002.
AJ7541
AJ7541 .The X, Y, and Z were computed from the position and the ellipsoidal ht.
AJ7541
AJ7541 .The Laplace correction was computed from DEFLEC99 derived deflections.
AJ7541
AJ7541 .The ellipsoidal height was determined by GPS observations
AJ7541 .and is referenced to NAD 83.
AJ7541
AJ7541 .The geoid height was determined by GEOID03.
AJ7541
AJ7541 .The dynamic height is computed by dividing the NAVD 88
AJ7541 .geopotential number by the normal gravity value computed on the
AJ7541 .Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AJ7541 .degrees latitude (g = 980.6199 gals.).
AJ7541
AJ7541 .The modeled gravity was interpolated from observed gravity values.
AJ7541
AJ7541 ;
AJ7541 ; North East Units Scale Factor Converg.
AJ7541 ;SPC FL W - 242,569.229 241,923.073 MT 0.99996287 +0 11 16.2
AJ7541 ;SPC FL W - 795,829.21 793,709.28 sFT 0.99996287 +0 11 16.2
AJ7541 ;UTM 17 - 2,933,680.074 442,277.144 MT 0.99964113 -0 15 31.4
AJ7541
AJ7541 !
AJ7541 ! Elev Factor x Scale Factor = Combined Factor
AJ7541 !SPC FL W - 1.00000240 x 0.99996287 = 0.99996527
AJ7541 !UTM 17 - 1.00000240 x 0.99964113 = 0.99964353
AJ7541
AJ7541 SUPERSEDED SURVEY CONTROL

```

## DATASHEETS

AJ7541  
 AJ7541 NAD 83(1999)- 26 31 21.00777(N) 081 34 45.70180(W) AD( ) A  
 AJ7541 ELLIP H (12/09/02) -15.292 (m) GP( ) 4 1  
 AJ7541 NAVD 88 (12/09/02) 9.10 (m) 29.9 (f) LEVELING 3  
 AJ7541  
 AJ7541.Superseded values are not recommended for survey control.  
 AJ7541.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.  
 AJ7541.[See file dsdata.txt](#) to determine how the superseded data were derived.

AJ7541  
 AJ7541\_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMK4227733680(NAD 83)  
 AJ7541\_MARKER: F = FLANGE-ENCASED ROD  
 AJ7541\_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+) )  
 AJ7541\_STAMPING: P 533 2001 CERP  
 AJ7541\_MARK LOGO: NONE  
 AJ7541\_PROJECTION: RECESSED 11 CENTIMETERS  
 AJ7541\_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET  
 AJ7541\_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL  
 AJ7541\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR  
 AJ7541+SATELLITE: SATELLITE OBSERVATIONS - May 07, 2002  
 AJ7541\_ROD/PIPE-DEPTH: 5.49 meters  
 AJ7541\_SLEEVE-DEPTH : .46 meters

HISTORY	- Date	Condition	Report By
AJ7541 HISTORY	- 20010917	MONUMENTED	LDBLS
AJ7541 HISTORY	- 20020221	GOOD	NGS
AJ7541 HISTORY	- 20020228	GOOD	MAPTEC
AJ7541 HISTORY	- 20020507	GOOD	MAPTEC

## STATION DESCRIPTION

AJ7541  
 AJ7541'DESCRIBED BY LD BRADLEY LAND SURVEYORS 2001 (JCH)  
 AJ7541'THE MARK IS ABOUT 19.7 KM (12.27 MI) NORTHWEST OF IMMOKALEE, ABOUT  
 AJ7541'34.1 KM  
 AJ7541'(21.19 MI) SOUTHEAST OF FORT MYERS, IN SECTION 36, TOWNSHIP 45 SOUTH,  
 AJ7541'RANGE 27  
 AJ7541'EAST, LEE COUNTY FLORIDA. OWNERSHIP - FLORIDA DEPARTMENT OF  
 AJ7541'TRANSPORTATION.  
 AJ7541'  
 AJ7541'TO REACH THE MARK FROM THE POST OFFICE IN IMMOKALEE GO NORTH ON STATE  
 AJ7541'ROAD 29  
 AJ7541'6.3 KM (3.9 MI) TO THE JUNCTION OF STATE ROAD 82, GO NORTHWESTERLY ON  
 AJ7541'STATE  
 AJ7541'ROAD 82 13.4 KM (8.31 MI) TO THE HENDRY-LEE COUNTY LINE, THENCE  
 AJ7541'CONTINUE  
 AJ7541'NORTHWEST ON STATE ROAD 82 1.6 KM (1.00 MI) AND THE MARK ON THE RIGHT,  
 AJ7541'ALSO  
 AJ7541'FROM THE JUNCTION OF STATE ROAD 82 AND BELL BOULEVARD SOUTH GO  
 AJ7541'SOUTHEAST ON  
 AJ7541'STATE ROAD 82 2.7 KM (1.66 MI) TO THE MARK ON THE LEFT.  
 AJ7541'  
 AJ7541'THE MARK IS 83.21 M (273.0 FT) SOUTHEAST ON STATE ROAD 82 FROM THE  
 AJ7541'EXTENDED  
 AJ7541'CENTERLINE OF WILDCAT DRIVE, 48.86 M (160.3 FT) SOUTHWEST OF A WOOD  
 AJ7541'POWER POLE,  
 AJ7541'47.24 M (155.0 FT) NORTHWEST ON STATE ROAD 82 FROM THE EXTENDED  
 AJ7541'CENTERLINE  
 AJ7541'OF GENDA AVENUE SOUTH, 21.95 M (72.0 FT) SOUTH OF A WOOD POWER POLE,  
 AJ7541'21.79 M  
 AJ7541'(71.5 FT) SOUTHWEST OF A CARSONITE WITNESS POST, AND 9.20 M (30.2 FT)  
 AJ7541'NORTHEAST  
 AJ7541'OF THE CENTERLINE OF STATE ROAD 82. THE DATUM POINT IS SET 11 CM (0.37  
 AJ7541'FT)  
 AJ7541'BELOW THE LEVEL OF THE GROUND, ABOUT 0.61 M (2.0 FT) BELOW THE LEVEL  
 AJ7541'OF THE  
 AJ7541'HIGHWAY, BEING THE TOP OF A STAINLESS STEEL ROD DRIVEN 5.49 M (18.00  
 AJ7541'FT) TO  
 AJ7541'REFUSAL AND ENCASED IN A 5-INCH PVC PIPE WITH AN ACCESS COVER.  
 AJ7541'  
 AJ7541'NOTE - A MAGNET WAS PLACED INSIDE THE SLEEVE, BELOW THE ACCESS COVER.  
 AJ7541'

## STATION RECOVERY (2002)

AJ7541  
 AJ7541  
 AJ7541 RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 2002 (RWA)  
 AJ7541 RECOVERED IN GOOD CONDITION.

## STATION RECOVERY (2002)

AJ7541  
 AJ7541  
 AJ7541 RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (RLT)  
 AJ7541 RECOVERED AS DESCRIBED  
 AJ7541'

AJ7541 '  
AJ7541 '  
AJ7541 '  
AJ7541 STATION RECOVERY (2002)  
AJ7541 '  
AJ7541 RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CDP)  
AJ7541 'THE MARK IS ABOUT 19.7 KM (12.27 MI) NORTHWEST OF IMMOKALEE, ABOUT  
AJ7541 '34.1 KM  
AJ7541 '(21.19 MI) SOUTHEAST OF FORT MYERS, IN SECTION 36, TOWNSHIP 45 SOUTH,  
AJ7541 'RANGE 27  
AJ7541 'EAST, LEE COUNTY FLORIDA. OWNERSHIP - FLORIDA DEPARTMENT OF  
AJ7541 'TRANSPORTATION.  
AJ7541 '  
AJ7541 'TO REACH THE MARK FROM THE POST OFFICE IN IMMOKALEE GO NORTH ON STATE  
AJ7541 'ROAD 29  
AJ7541 '6.3 KM (3.9 MI) TO THE JUNCTION OF STATE ROAD 82, GO NORTHWESTERLY ON  
AJ7541 'STATE  
AJ7541 'ROAD 82 13.4 KM (8.31 MI) TO THE HENDRY-LEE COUNTY LINE, THENCE  
AJ7541 'CONTINUE  
AJ7541 'NORTHWEST ON STATE ROAD 82 1.6 KM (1.00 MI) AND THE MARK ON THE RIGHT,  
AJ7541 'ALSO  
AJ7541 'FROM THE JUNCTION OF STATE ROAD 82 AND BELL BOULEVARD SOUTH GO  
AJ7541 'SOUTHEAST ON  
AJ7541 'STATE ROAD 82 2.7 KM (1.66 MI) TO THE MARK ON THE LEFT.  
AJ7541 '  
AJ7541 'THE MARK IS 83.21 M (273.0 FT) SOUTHEAST ON STATE ROAD 82 FROM THE  
AJ7541 'EXTENDED  
AJ7541 'CENTERLINE OF WILDCAT DRIVE, 48.86 M (160.3 FT) SOUTHWEST OF A WOOD  
AJ7541 'POWER POLE,  
AJ7541 '47.24 M (155.0 FT) NORTHWEST ON STATE ROAD 82 FROM THE EXTENDED  
AJ7541 'CENTERLINE  
AJ7541 'OF GENDA AVENUE SOUTH, 21.95 M (72.0 FT) SOUTH OF A WOOD POWER POLE,  
AJ7541 '21.79 M  
AJ7541 '(71.5 FT) SOUTHWEST OF A CARSONITE WITNESS POST, AND 9.20 M (30.2 FT)  
AJ7541 'NORTHEAST  
AJ7541 'OF THE CENTERLINE OF STATE ROAD 82. THE DATUM POINT IS SET 11 CM (0.37  
AJ7541 'FT)  
AJ7541 'BELOW THE LEVEL OF THE GROUND, ABOUT 0.61 M (2.0 FT) BELOW THE LEVEL  
AJ7541 'OF THE  
AJ7541 'HIGHWAY, BEING THE TOP OF A STAINLESS STEEL ROD DRIVEN 5.49 M (18.00  
AJ7541 'FT) TO  
AJ7541 'REFUSAL AND ENCASED IN A 5-INCH PVC PIPE WITH AN ACCESS COVER.  
AJ7541 '  
AJ7541 'NOTE - A MAGNET WAS PLACED INSIDE THE SLEEVE, BELOW THE ACCESS COVER.  
AJ7541 '  
AJ7541 'RECOVERED AS DESCRIBED 2002 MAPTECH INC (CDP)  
AJ7541 '  
AJ7541 '  
AJ7541 '

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

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



From the NGS adjustment file "ngvd29.txt" for the CERP Geodetic Vertical Control Project.  
 Line/Part: L26242 SSN+: mark floated, SSN\*: mark constrained, SSN#: mark floated & constrained  
 Mark ID SSN PID Designation Geopotential Elevation Codes  
 1708 2814 AJ7541 P 533 9.2820 9.4714  
 1709 2815 AJ7542 Q 533 9.4165 9.6087

# The NGS Data Sheet

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

```

PROGRAM = datasheet95, VERSION = 8.7
1 National Geodetic Survey, Retrieval Date = JULY 13, 2015
AJ7542 *****
AJ7542 DESIGNATION - Q 533
AJ7542 PID - AJ7542
AJ7542 STATE/COUNTY- FL/LEE
AJ7542 COUNTRY - US
AJ7542 USGS QUAD - ALVA SE (1973)
AJ7542
AJ7542 *CURRENT SURVEY CONTROL
AJ7542
AJ7542* NAD 83(2011) POSITION- 26 31 35.79583(N) 081 35 44.16061(W) ADJUSTED
AJ7542* NAD 83(2011) ELLIP HT- -15.164 (meters) (06/27/12) ADJUSTED
AJ7542* NAD 83(2011) EPOCH - 2010.00
AJ7542* NAVD 88 ORTHO HEIGHT - 9.240 (meters) 30.31 (feet) ADJUSTED
AJ7542
AJ7542 NAD 83(2011) X - 834,639.762 (meters) COMP
AJ7542 NAD 83(2011) Y - -5,649,167.568 (meters) COMP
AJ7542 NAD 83(2011) Z - 2,831,376.312 (meters) COMP
AJ7542 LAPLACE CORR - -0.40 (seconds) DEFLEC12B
AJ7542 GEOID HEIGHT - -24.40 (meters) GEOID12B
AJ7542 DYNAMIC HEIGHT - 9.225 (meters) 30.27 (feet) COMP
AJ7542 MODELED GRAVITY - 979,057.8 (mgal) NAVD 88
AJ7542
AJ7542 VERT ORDER - FIRST CLASS II
AJ7542
AJ7542 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AJ7542 Standards:
AJ7542 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
AJ7542 Horiz Ellip SD_N SD_E SD_h (unitless)
AJ7542 -----
AJ7542 NETWORK 1.14 2.00 0.43 0.49 1.02 -0.26368324
AJ7542 -----
AJ7542 Click here for local accuracies and other accuracy information.
AJ7542
AJ7542
AJ7542.The horizontal coordinates were established by GPS observations
AJ7542.and adjusted by the National Geodetic Survey in June 2012.
AJ7542
AJ7542.NAD 83(2011) refers to NAD 83 coordinates where the reference
AJ7542.frame has been affixed to the stable North American tectonic plate. See
AJ7542.NA2011 for more information.
AJ7542
AJ7542.The horizontal coordinates are valid at the epoch date displayed above
AJ7542.which is a decimal equivalence of Year/Month/Day.
AJ7542
AJ7542.The orthometric height was determined by differential leveling and
AJ7542.adjusted by the NATIONAL GEODETIC SURVEY
AJ7542.in February 2002.
AJ7542
AJ7542.The X, Y, and Z were computed from the position and the ellipsoidal ht.
AJ7542
AJ7542.The Laplace correction was computed from DEFLEC12B derived deflections.
AJ7542
AJ7542.The ellipsoidal height was determined by GPS observations
AJ7542.and is referenced to NAD 83.
AJ7542
    
```

AJ7542.The dynamic height is computed by dividing the NAVD 88  
 AJ7542.geopotential number by the normal gravity value computed on the  
 AJ7542.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45  
 AJ7542.degrees latitude (g = 980.6199 gals.).

AJ7542  
 AJ7542.The modeled gravity was interpolated from observed gravity values.

AJ7542  
 AJ7542. The following values were computed from the NAD 83(2011) position.

AJ7542

AJ7542;		North	East	Units	Scale	Factor	Converg.
AJ7542;SPC FL W	-	243,019.132	240,303.199	MT	0.99996122	+0 10	50.2
AJ7542;SPC FL W	-	797,305.27	788,394.75	sFT	0.99996122	+0 10	50.2
AJ7542;UTM 17	-	2,934,142.442	440,661.343	MT	0.99964347	-0 15	57.6

AJ7542

AJ7542!	-	Elev Factor	x	Scale Factor	=	Combined Factor
AJ7542!SPC FL W	-	1.00000238	x	0.99996122	=	0.99996360
AJ7542!UTM 17	-	1.00000238	x	0.99964347	=	0.99964585

AJ7542

SUPERSEDED SURVEY CONTROL

AJ7542

AJ7542	NAD 83(2007)-	26 31 35.79604(N)	081 35 44.16142(W)	AD(2002.00)	0
AJ7542	ELLIP H (02/10/07)	-15.149 (m)		GP(2002.00)	
AJ7542	NAD 83(1999)-	26 31 35.79601(N)	081 35 44.16153(W)	AD( )	1
AJ7542	ELLIP H (12/12/02)	-15.154 (m)		GP( )	4 1
AJ7542	NAVD 88 (12/12/02)	9.24 (m)	30.3 (f)	LEVELING	3

AJ7542  
 AJ7542.Superseded values are not recommended for survey control.  
 AJ7542  
 AJ7542.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.  
 AJ7542.[See file dsdata.txt](#) to determine how the superseded data were derived.

AJ7542  
 AJ7542\_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMK4066134142(NAD 83)  
 AJ7542

AJ7542\_MARKER: F = FLANGE-ENCASED ROD  
 AJ7542\_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.)  
 AJ7542\_STAMPING: Q 533 2001 CERP  
 AJ7542\_MARK LOGO: NONE  
 AJ7542\_PROJECTION: RECESSED 22 CENTIMETERS  
 AJ7542\_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET  
 AJ7542\_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL  
 AJ7542\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR  
 AJ7542+SATELLITE: SATELLITE OBSERVATIONS - February 05, 2007  
 AJ7542\_ROD/PIPE-DEPTH: 3.63 meters  
 AJ7542\_SLEEVE-DEPTH : 0.46 meters

AJ7542

AJ7542	HISTORY	- Date	Condition	Report By
AJ7542	HISTORY	- 20010917	MONUMENTED	LDBLS
AJ7542	HISTORY	- 20020507	GOOD	MAPTEC
AJ7542	HISTORY	- 20070205	GOOD	HOLE

AJ7542

STATION DESCRIPTION

AJ7542

AJ7542'DESCRIBED BY LD BRADLEY LAND SURVEYORS 2001 (JCH)  
 AJ7542'THE MARK IS ABOUT 23.1 KM (14.34 MI) NORTHWEST OF IMMOKALEE, ABOUT  
 AJ7542'30.8 KM  
 AJ7542'(19.12 MI) SOUTHEAST OF FORT MYERS, IN SECTION 35, TOWNSHIP 45 SOUTH,  
 AJ7542'RANGE 27  
 AJ7542'EAST, LEE COUNTY FLORIDA. OWNERSHIP - FLORIDA DEPARTMENT OF  
 AJ7542'TRANSPORTATION.  
 AJ7542'  
 AJ7542'TO REACH THE MARK FROM THE POST OFFICE IN IMMOKALEE GO NORTH ON STATE  
 AJ7542'ROAD 29  
 AJ7542'6.3 KM (3.9 MI) TO THE JUNCTION OF STATE ROAD 82, GO NORTHWESTERLY ON  
 AJ7542'STATE  
 AJ7542'ROAD 82 13.4 KM (8.31 MI) TO THE HENDRY-LEE COUNTY LINE, CONTINUE  
 AJ7542'NORTHWESTERLY ON STATE ROAD 82 3.3 KM (2.06 MI) AND THE MARK ON THE

## DATASHEETS

AJ7542'RIGHT,  
AJ7542'ALSO FROM THE JUNCTION OF STATE ROAD 82 AND BELL BOULEVARD SOUTH GO  
AJ7542'SOUTHEAST  
AJ7542'ON STATE ROAD 82 1.0 KM (0.60 MI) TO THE MARK ON THE LEFT.  
AJ7542'  
AJ7542'THE MARK IS 18.75 M (61.5 FT) SOUTHEAST ON STATE ROAD 82 FROM THE  
AJ7542'EXTENDED  
AJ7542'CENTERLINE OF A GRAVEL ROAD LEADING SOUTHWEST FROM STATE ROAD 82 AND  
AJ7542'ENTERING  
AJ7542'THE COOPERATIVE THREE INCORPORATED CITRUS FARMS, 8.90 M (29.2 FT)  
AJ7542'SOUTHWEST OF  
AJ7542'A CARSONITE WITNESS POST AND 7.01 M (23.0 FT) NORTHEAST OF THE  
AJ7542'CENTERLINE OF  
AJ7542'STATE ROAD 82. THE DATUM POINT IS SET 22 CM (0.71 FT) BELOW THE LEVEL  
AJ7542'OF THE  
AJ7542'GROUND, ABOUT 0.61 M (2.0 FT) BELOW THE LEVEL OF THE HIGHWAY, BEING  
AJ7542'THE TOP OF  
AJ7542'A STAINLESS STEEL ROD DRIVEN 3.63 M (11.92 FT) TO REFUSAL AND ENCASED  
AJ7542'IN A 5-  
AJ7542'INCH PVC PIPE WITH AN ACCESS COVER.

AJ7542'  
AJ7542'NOTE - A MAGNET WAS PLACED INSIDE THE SLEEVE, BELOW THE ACCESS COVER.  
AJ7542'

AJ7542  
AJ7542 STATION RECOVERY (2002)

AJ7542  
AJ7542'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CDP)  
AJ7542'THE MARK IS ABOUT 23.1 KM (14.34 MI) NORTHWEST OF IMMOKALEE, ABOUT  
AJ7542'30.8 KM  
AJ7542'(19.12 MI) SOUTHEAST OF FORT MYERS, IN SECTION 35, TOWNSHIP 45 SOUTH,  
AJ7542'RANGE 27  
AJ7542'EAST, LEE COUNTY FLORIDA. OWNERSHIP - FLORIDA DEPARTMENT OF  
AJ7542'TRANSPORTATION.

AJ7542'  
AJ7542'TO REACH THE MARK FROM THE POST OFFICE IN IMMOKALEE GO NORTH ON STATE  
AJ7542'ROAD 29  
AJ7542'6.3 KM (3.9 MI) TO THE JUNCTION OF STATE ROAD 82, GO NORTHWESTERLY ON  
AJ7542'STATE  
AJ7542'ROAD 82 13.4 KM (8.31 MI) TO THE HENDRY-LEE COUNTY LINE, CONTINUE  
AJ7542'NORTHWESTERLY ON STATE ROAD 82 3.3 KM (2.06 MI) AND THE MARK ON THE  
AJ7542'RIGHT,  
AJ7542'ALSO FROM THE JUNCTION OF STATE ROAD 82 AND BELL BOULEVARD SOUTH GO  
AJ7542'SOUTHEAST  
AJ7542'ON STATE ROAD 82 1.0 KM (0.60 MI) TO THE MARK ON THE LEFT.

AJ7542'  
AJ7542'THE MARK IS 18.75 M (61.5 FT) SOUTHEAST ON STATE ROAD 82 FROM THE  
AJ7542'EXTENDED  
AJ7542'CENTERLINE OF A GRAVEL ROAD LEADING SOUTHWEST FROM STATE ROAD 82 AND  
AJ7542'ENTERING  
AJ7542'THE COOPERATIVE THREE INCORPORATED CITRUS FARMS, 8.90 M (29.2 FT)  
AJ7542'SOUTHWEST OF  
AJ7542'A CARSONITE WITNESS POST AND 7.01 M (23.0 FT) NORTHEAST OF THE  
AJ7542'CENTERLINE OF  
AJ7542'STATE ROAD 82. THE DATUM POINT IS SET 22 CM (0.71 FT) BELOW THE LEVEL  
AJ7542'OF THE  
AJ7542'GROUND, ABOUT 0.61 M (2.0 FT) BELOW THE LEVEL OF THE HIGHWAY, BEING  
AJ7542'THE TOP OF  
AJ7542'A STAINLESS STEEL ROD DRIVEN 3.63 M (11.92 FT) TO REFUSAL AND ENCASED  
AJ7542'IN A 5-  
AJ7542'INCH PVC PIPE WITH AN ACCESS COVER.

AJ7542'  
AJ7542'NOTE - A MAGNET WAS PLACED INSIDE THE SLEEVE, BELOW THE ACCESS COVER.  
AJ7542'

AJ7542'RECOVERED AS DESCRIBED 2002 MAPTECH INC (CDP)

AJ7542'  
AJ7542'

AJ7542

AJ7542

STATION RECOVERY (2007)

AJ7542

AJ7542'RECOVERY NOTE BY HOLE MONTES AND ASSOCIATES INC 2007 (BRH)

AJ7542'RECOVERED IN GOOD CONDITION.

\*\*\* retrieval complete.

Elapsed Time = 00:00:04

## NAVD 88 Adjustment

Level Adjustment: 04-01-2003 06:25:40

From file: 30201--1.LIN

Project: Project: SFWMD LEE-COLLIER WELLS

Entered by: M. HOLT 03-14-2003 07:36:23

BM ADJ EL(M)	SUM DIST	UNADJ ELEV	CORRECTION	ADJ EL(FT)
W 244 3.761	0.000	12.340		12.340
TP 1 4.982	317.000	16.343	0.000	16.343
TP 2 3.798	774.000	12.460	0.001	12.461
TP 3 3.246	1243.000	10.647	0.002	10.649
TP 4 3.283	1707.000	10.767	0.003	10.770
TP 5 3.026	2172.000	9.924	0.003	9.927
A010 3.520	2704.000	11.544	0.004	11.548
TP 6 3.355	3170.000	11.004	0.005	11.009
TP 7 4.064	3635.000	13.327	0.006	13.333
TP 8 5.127	4098.000	16.814	0.006	16.820
TP 9 5.394	4553.000	17.691	0.007	17.698
TP 10 4.880	5022.000	16.004	0.008	16.012
TP 11 4.848	5483.000	15.897	0.008	15.905
TP 12 4.778	5933.000	15.667	0.009	15.676

TP 13 4.555	6398.000	14.934	0.010	14.944
TP 14 4.643	6858.000	15.224	0.010	15.234
TP 15 4.787	7320.000	15.694	0.011	15.705
TP 16 4.661	7831.000	15.281	0.012	15.293
TP 17 4.918	8307.000	16.121	0.013	16.134
TP 18 4.781	8773.000	15.671	0.013	15.684
TP 19 4.658	9262.000	15.268	0.014	15.282
LEE-3 SFWMD 3.589	9683.000	11.761	0.015	11.776
ESTERO S 4.601	9859.000	15.081	0.015	15.096
TP 20 4.775	10357.000	15.651	0.016	15.667
TP 21 4.980	10851.000	16.321	0.016	16.337
TP 22 4.619	11344.000	15.138	0.017	15.155
TP 23 5.046	11856.000	16.538	0.018	16.556
TP 24 5.396	12355.000	17.685	0.019	17.704
TP 25 5.265	12847.000	17.255	0.019	17.274
TP 26 6.286	13322.000	20.602	0.020	20.622
TP 27 6.639	13784.000	21.762	0.021	21.783
TP 28 6.958	14255.000	22.805	0.022	22.827

TP 29 6.754	14723.000	22.135	0.022	22.157
TP 30 6.015	15222.000	19.712	0.023	19.735
TP 31 5.680	15718.000	18.612	0.024	18.636
TP 32 5.499	16212.000	18.016	0.025	18.041
TP 33 5.319	16710.000	17.426	0.025	17.451
TP 34 5.432	17194.000	17.796	0.026	17.822
TP 35 5.317	17689.000	17.419	0.027	17.446
TP 36 5.406	18179.000	17.709	0.028	17.737
TP 37 5.666	18680.000	18.562	0.028	18.590
TP 38 5.767	19172.000	18.892	0.029	18.921
TP 39 5.783	19682.000	18.942	0.030	18.972
TP 40 6.031	20173.000	19.755	0.031	19.786
TP 41 6.026	20657.000	19.739	0.031	19.770
TP 42 6.267	21153.000	20.529	0.032	20.561
TP 43 6.342	21635.000	20.773	0.033	20.806
TP 44 6.263	22121.000	20.513	0.034	20.547
TP 45 6.282	22594.000	20.576	0.034	20.610
TP 46 6.511	23074.000	21.326	0.035	21.361

TP 47 6.561	23567.000	21.489	0.036	21.525
TP 48 6.490	24053.000	21.255	0.036	21.291
TP 49 6.557	24553.000	21.475	0.037	21.512
TP 50 6.518	25047.000	21.345	0.038	21.383
TP 51 6.427	25538.000	21.048	0.039	21.087
TP 52 6.464	26026.000	21.168	0.039	21.207
TP 53 6.579	26494.000	21.544	0.040	21.584
TP 54 6.468	26971.000	21.181	0.041	21.222
TP 55 6.510	27458.000	21.318	0.042	21.360
TP 56 6.307	27931.000	20.651	0.042	20.693
TP 57 6.475	28431.000	21.201	0.043	21.244
TP 58 6.504	28926.000	21.294	0.044	21.338
TP 59 6.199	29424.000	20.294	0.045	20.339
TP 60 6.449	29908.000	21.114	0.045	21.159
TP 61 6.315	30401.000	20.671	0.046	20.717
TP 62 6.545	30893.000	21.427	0.047	21.474
TP 63 6.442	31401.000	21.087	0.048	21.135
TP 64 6.499	31906.000	21.274	0.048	21.322



TP 65 6.590	32413.000	21.571	0.049	21.620
TP 66 6.450	32921.000	21.111	0.050	21.161
TP 67 6.590	33443.000	21.571	0.051	21.622
TP 68 6.492	33954.000	21.248	0.051	21.299

LEE-15 6.170	34309.000	20.191	0.052	20.243
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TP 69 6.506	34775.000	21.291	0.053	21.344
TP 70 6.460	35243.000	21.141	0.053	21.194
TP 71 6.553	35704.000	21.444	0.054	21.498
TP 72 6.574	36180.000	21.514	0.055	21.569
TP 73 6.404	36644.000	20.954	0.056	21.010

LEE-16 5.964	36973.000	19.511	0.056	19.567
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TP 74 6.533	37426.000	21.378	0.057	21.435
TP 75 6.485	37902.000	21.218	0.057	21.275
TP 76 6.444	38365.000	21.085	0.058	21.143
TP 77 6.601	38838.000	21.598	0.059	21.657
TP 78 6.479	39306.000	21.198	0.060	21.258
TP 79 6.604	39753.000	21.605	0.060	21.665
TP 80 6.500	40197.000	21.265	0.061	21.326

TP 81 6.484	40620.000	21.212	0.062	21.274
TP 82 6.414	40910.000	20.982	0.062	21.044
TP 83 6.184	41357.000	20.225	0.063	20.288

LEE-6 5.405	41403.000	17.671	0.063	17.734
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TP 84 6.133	41578.000	20.058	0.063	20.121
TP 85 6.369	41857.000	20.831	0.063	20.894
TP 86 6.664	42306.000	21.798	0.064	21.862
TP 87 6.556	42755.000	21.445	0.065	21.510
TP 88 7.704	43103.000	25.211	0.065	25.276

A013 (NOT NGS) 9.059	43422.000	29.654	0.066	29.720
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TP 89 7.524	43670.000	24.620	0.066	24.686
TP 90 6.645	44043.000	21.733	0.067	21.800
TP 91 6.480	44497.000	21.193	0.067	21.260
TP 92 6.329	44958.000	20.696	0.068	20.764
TP 93 6.445	45414.000	21.076	0.069	21.145
TP 94 6.454	45862.000	21.106	0.069	21.175
TP 95 6.737	46339.000	22.033	0.070	22.103
TP 96 6.786	46805.000	22.193	0.071	22.264

TP 97 6.947	47266.000	22.720	0.072	22.792
TP 98 6.809	47737.000	22.267	0.072	22.339
TP 99 6.632	48213.000	21.687	0.073	21.760
TP 100 6.590	48701.000	21.547	0.074	21.621
TP 101 6.715	49157.000	21.957	0.074	22.031
TP 102 6.789	49635.000	22.197	0.075	22.272
TP 103 6.828	50111.000	22.327	0.076	22.403
TP 104 6.883	50580.000	22.504	0.077	22.581
TP 105 7.054	51045.000	23.067	0.077	23.144
TP 106 7.149	51517.000	23.377	0.078	23.455
TP 107 7.505	51998.000	24.544	0.079	24.623
TP 108 7.119	52467.000	23.277	0.080	23.357
TP 109 7.431	52928.000	24.300	0.080	24.380
TP 110 7.430	53414.000	24.294	0.081	24.375
TP 111 7.543	53890.000	24.664	0.082	24.746
TP 112 7.581	54353.000	24.791	0.082	24.873
TP 113 7.662	54838.000	25.054	0.083	25.137
TP 114 7.734	55316.000	25.290	0.084	25.374

TP 115 7.908	55806.000	25.860	0.085	25.945
TP 116 7.919	56287.000	25.897	0.085	25.982
TP 117 8.141	56768.000	26.624	0.086	26.710
TP 118 8.202	57244.000	26.824	0.087	26.911
TP 119 8.252	57733.000	26.987	0.087	27.074
TP 120 8.209	58228.000	26.844	0.088	26.932
TP 121 8.295	58716.000	27.124	0.089	27.213
TP 122 8.408	59160.000	27.494	0.090	27.584
TP 123 8.419	59606.000	27.530	0.090	27.620
TP 124 8.540	60045.000	27.927	0.091	28.018
TP 125 8.492	60486.000	27.770	0.092	27.862
TP 126 8.481	60917.000	27.733	0.092	27.825
TP 127 8.523	61394.000	27.870	0.093	27.963
TP 128 8.583	61867.000	28.067	0.094	28.161
TP 129 8.552	62336.000	27.964	0.094	28.058
TP 130 8.605	62815.000	28.137	0.095	28.232
TP 131 8.664	63302.000	28.330	0.096	28.426
TP 132 8.631	63770.000	28.220	0.097	28.317

TP 133 8.659	64250.000	28.310	0.097	28.407
TP 134 8.644	64740.000	28.260	0.098	28.358
TP 135 8.715	65231.000	28.493	0.099	28.592
TP 136 8.768	65712.000	28.666	0.100	28.766
TP 137 8.854	66191.000	28.949	0.100	29.049
TP 138 8.830	66677.000	28.869	0.101	28.970
TP 139 8.894	67149.000	29.079	0.102	29.181
TP 140 8.782	67627.000	28.709	0.102	28.811
TP 141 8.841	68118.000	28.902	0.103	29.005
TP 142 8.891	68595.000	29.065	0.104	29.169
TP 143 8.755	69064.000	28.618	0.105	28.723
TP 144 8.889	69554.000	29.058	0.105	29.163
TP 145 8.919	70027.000	29.155	0.106	29.261
TP 146 8.797	70499.000	28.755	0.107	28.862
TP 147 8.843	70985.000	28.905	0.108	29.013
TP 148 8.899	71452.000	29.088	0.108	29.196
TP 149 8.890	71932.000	29.058	0.109	29.167
TP 150 8.890	72398.000	29.058	0.110	29.168

TP 151 8.925	72637.000	29.171	0.110	29.281
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2 21 46 27 8.193	72689.000	26.771	0.110	26.881
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TP 152 8.936	73177.000	29.207	0.111	29.318
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TP 153 8.958	73633.000	29.277	0.112	29.389
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TP 154 9.086	74047.000	29.697	0.112	29.809
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TP 155 9.065	74535.000	29.627	0.113	29.740
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TP 156 9.022	75003.000	29.487	0.114	29.601
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TP 157 9.034	75326.000	29.524	0.114	29.638
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TP 158 9.071	75810.000	29.644	0.115	29.759
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TP 159 8.976	76288.000	29.334	0.116	29.450
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TP 160 9.026	76765.000	29.497	0.116	29.613
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TP 161 9.094	77244.000	29.720	0.117	29.837
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TP 162 9.561	77724.000	31.250	0.118	31.368
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TP 163 9.652	78207.000	31.547	0.119	31.666
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TP 164 9.659	78673.000	31.571	0.119	31.690
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TP 165 9.683	79148.000	31.648	0.120	31.768
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TP 166 9.626	79622.000	31.462	0.121	31.583
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TP 167 9.667	80094.000	31.596	0.121	31.717
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TP 168 9.604	80582.000	31.386	0.122	31.508
TP 169 9.552	81058.000	31.216	0.123	31.339
TP 170 9.739	81527.000	31.829	0.124	31.953
TP 171 9.713	82006.000	31.742	0.124	31.866
LC-6 9.757	82301.000	31.885	0.125	32.010
TP 172 9.681	82569.000	31.635	0.125	31.760
TP 173 9.610	82932.000	31.402	0.126	31.528
TP 174 9.656	83256.000	31.552	0.126	31.678
TP 175 9.714	83555.000	31.745	0.127	31.872
TP 176 9.867	83999.000	32.245	0.127	32.372
TP 177 9.792	84468.000	31.998	0.128	32.126
TP 178 9.942	84796.000	32.488	0.128	32.616
LC-7 8.780	85282.000	28.678	0.129	28.807
TP 179 8.772	85724.000	28.648	0.130	28.778
TP 180 9.755	86169.000	31.875	0.131	32.006
TP 181 9.929	86659.000	32.445	0.131	32.576
TP 182 9.934	87097.000	32.459	0.132	32.591
TP 183 10.038	87545.000	32.799	0.133	32.932

TP 184 9.771	88086.000	31.922	0.133	32.055
LEE-19 8.604	88303.000	28.095	0.134	28.229
TP 185 8.690	88545.000	28.375	0.134	28.509
TP 186 8.875	89016.000	28.982	0.135	29.117
TP 187 9.001	89504.000	29.396	0.136	29.532
TP 188 9.132	89943.000	29.823	0.136	29.959
TP 189 8.804	90424.000	28.746	0.137	28.883
LEE-18 8.712	90544.000	28.446	0.137	28.583
TP 190 9.025	90990.000	29.470	0.138	29.608
TP 191 8.863	91426.000	28.940	0.139	29.079
LC-8 8.917	91903.000	29.117	0.139	29.256
TP 192 8.865	92438.000	28.944	0.140	29.084
TP 193 8.938	92918.000	29.184	0.141	29.325
TP 194 9.088	93224.000	29.674	0.141	29.815
TP 195 8.920	93444.000	29.124	0.142	29.266
TP 196 8.692	93910.000	28.374	0.142	28.516
TP 197 8.931	94389.000	29.157	0.143	29.300
TP 198 8.989	94813.000	29.347	0.144	29.491



TP 199 9.008	95296.000	29.410	0.144	29.554
TP 200 9.170	95736.000	29.940	0.145	30.085
TP 201 8.779	96181.000	28.657	0.146	28.803
TP 202 9.041	96653.000	29.517	0.146	29.663
TP 203 8.880	97155.000	28.987	0.147	29.134
TP 204 9.313	97515.000	30.407	0.148	30.555
TP 205 9.929	98065.000	32.427	0.149	32.576
LC-4 9.645	98318.000	31.494	0.149	31.643
TP 206 9.917	98827.000	32.387	0.150	32.537
TP 207 9.703	99274.000	31.684	0.150	31.834
TP 208 9.767	99734.000	31.894	0.151	32.045
TP 209 8.851	100177.000	28.887	0.152	29.039
TP 210 9.107	100623.000	29.727	0.152	29.879
TP 211 9.040	101089.000	29.507	0.153	29.660
TP 212 8.862	101534.000	28.920	0.154	29.074
TP 213 8.779	101999.000	28.647	0.155	28.802
TP 214 8.989	102467.000	29.337	0.155	29.492
TP 215 9.006	102938.000	29.390	0.156	29.546

TP 216 8.965	103422.000	29.256	0.157	29.413
TP 217 8.989	103919.000	29.333	0.157	29.490
TP 218 9.005	104418.000	29.386	0.158	29.544
TP 219 8.985	104917.000	29.319	0.159	29.478
TP 220 8.972	105423.000	29.275	0.160	29.435
TP 221 9.087	105932.000	29.652	0.161	29.813
TP 222 9.103	106427.000	29.705	0.161	29.866
TP 223 9.210	106917.000	30.055	0.162	30.217
TP 224 9.130	107407.000	29.791	0.163	29.954
TP 225 8.925	107628.000	29.118	0.163	29.281
TP 226 8.935	108119.000	29.151	0.164	29.315
TP 227 9.027	108595.000	29.451	0.165	29.616
TP 228 9.083	108898.000	29.634	0.165	29.799
LC-10 9.353	109141.000	30.521	0.165	30.686
TP 229 9.091	109385.000	29.661	0.166	29.827
TP 230 8.881	109683.000	28.971	0.166	29.137
TP 231 8.663	110120.000	28.254	0.167	28.421
TP 232 8.751	110596.000	28.544	0.168	28.712

TP 233 8.637	111071.000	28.167	0.168	28.335
TP 234 8.765	111551.000	28.587	0.169	28.756
TP 235 8.810	112036.000	28.734	0.170	28.904
TP 236 8.674	112511.000	28.287	0.170	28.457
TP 237 8.669	112864.000	28.270	0.171	28.441
TP 238 8.858	113358.000	28.890	0.172	29.062
TP 239 8.802	113821.000	28.707	0.172	28.879
TP 240 9.219	114304.000	30.074	0.173	30.247
TP 241 9.201	114788.000	30.014	0.174	30.188
TP 242 9.195	115276.000	29.994	0.175	30.169
TP 243 9.077	115770.000	29.604	0.175	29.779
TP 244 9.175	116248.000	29.924	0.176	30.100
TP 245 9.150	116726.000	29.844	0.177	30.021
TP 246 8.814	117201.000	28.741	0.178	28.919
TP 247 8.853	117695.000	28.867	0.178	29.045
TP 248 8.951	118185.000	29.187	0.179	29.366
TP 249 8.843	118664.000	28.834	0.180	29.014

LEE-17 8.890	119015.000	28.987	0.180	29.167
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TP 250 8.891	119526.000	28.990	0.181	29.171
TP 251 9.086	120023.000	29.627	0.182	29.809
TP 252 9.085	120428.000	29.624	0.182	29.806
P 533 9.101	120767.000	29.677	0.183	29.860

Closure : 0.183  
 Max Allowed: 0.239 (MTS)  
 Max Allowed: 0.120 (Second Order, Class II)

Distance : 120767  
 Turns : 269  
 Error per Turn : 0.00068

Entered by: 03-25-2003 09:22:07

BM ADJ EL(M)	SUM DIST	UNADJ ELEV	CORRECTION	ADJ EL(FT)	--
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P 533 9.101	0.000	29.860		29.860	
TP 253 8.933	477.000	29.307	0.001	29.308	
TP 254 8.998	976.000	29.520	0.001	29.521	
TP 255 9.146	1469.000	30.003	0.002	30.005	
TP 256 9.143	1967.000	29.993	0.002	29.995	
TP 257 9.152	2467.000	30.023	0.003	30.026	
TP 258 9.444	2965.000	30.979	0.004	30.983	
TP 259 8.823	3458.000	28.942	0.004	28.946	
TP 260 8.769	3958.000	28.766	0.005	28.771	

TP 261                    4452.000        30.796        0.006        30.802  
9.388

TP 262                    4952.000        30.026        0.006        30.032  
9.154

Q 533                    5509.000        30.303        0.007        30.310  
9.239

Closure        :    0.007  
Max Allowed:    0.051    (MTS)  
Max Allowed:    0.026    (Second Order, Class II)

Distance        :    5509  
Turns            :        11  
Error per Turn :    0.00064

Project:  
Entered by:    03-25-2003    09:35:37

BM                                SUM DIST    UNADJ ELEV    CORRECTION    ADJ EL(FT)  
ADJ EL(M)

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LEE-17                                0.000        29.167                    29.167  
8.890

WELL WF-1                            136.000        32.907        -0.001        32.906  
10.030

TP 249                    538.000        29.017        -0.003        29.014  
8.843

Closure        :   -0.003  
Max Allowed:    0.016    (MTS)  
Max Allowed:    0.008    (Second Order, Class II)

Distance        :    538  
Turns            :        2  
Error per Turn :   -0.00150

BM                                SUM DIST    UNADJ ELEV    CORRECTION    ADJ EL(FT)  
ADJ EL(M)

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LC-10                                0.000        30.686                    30.686  
9.353

WELL WF-2                            104.000        34.276        0.002        34.278  
10.448

TP 230                    560.000        29.126        0.011        29.137  
8.881

Closure : 0.011  
 Max Allowed: 0.016 (MTS)  
 Max Allowed: 0.008 (Second Order, Class II)

Distance : 560  
 Turns : 2  
 Error per Turn : 0.00550

BM	SUM DIST	UNADJ ELEV	CORRECTION	ADJ EL(FT)
ADJ EL(M)				

LEE-18 8.712	0.000	28.583		28.583
WELL WF-5 10.169	90.000	33.363	-0.001	33.362

TP 263 8.866	181.000	29.090	-0.002	29.088
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TP 189 8.804	292.000	28.887	-0.004	28.883
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Closure : -0.004  
 Max Allowed: 0.012 (MTS)  
 Max Allowed: 0.006 (Second Order, Class II)

Distance : 292  
 Turns : 3  
 Error per Turn : -0.00133

BM	SUM DIST	UNADJ ELEV	CORRECTION	ADJ EL(FT)
ADJ EL(M)				

LEE-19 8.604	0.000	28.229		28.229
WELL WF-7 10.126	184.000	33.225	-0.004	33.221

TP 184 9.770	343.000	32.062	-0.007	32.055
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Closure : -0.007  
 Max Allowed: 0.013 (MTS)  
 Max Allowed: 0.006 (Second Order, Class II)

Distance : 343  
 Turns : 2

Error per Turn : -0.00350

BM	SUM DIST	UNADJ ELEV	CORRECTION	ADJ EL(FT)
ADJ EL(M)				

LC-7	0.000	28.807		28.807
8.780				

WELL WF-6	147.000	31.774	0.002	31.776
9.685				

TP 264	345.000	32.254	0.004	32.258
9.832				

TP 265	695.000	32.594	0.008	32.602
9.937				

TP 177	1013.000	32.114	0.012	32.126
9.792				

Closure : 0.012  
Max Allowed: 0.022 (MTS)  
Max Allowed: 0.011 (Second Order, Class II)

Distance : 1013  
Turns : 4  
Error per Turn : 0.00300

BM	SUM DIST	UNADJ ELEV	CORRECTION	ADJ EL(FT)
ADJ EL(M)				

LC-6	0.000	32.010		32.010
9.757				

WELL WF-4	124.000	32.140	-0.001	32.139
9.796				

TP 171	492.000	31.870	-0.004	31.866
9.713				

Closure : -0.004  
Max Allowed: 0.015 (MTS)  
Max Allowed: 0.008 (Second Order, Class II)

Distance : 492  
Turns : 2  
Error per Turn : -0.00200

BM ADJ EL(M)	SUM DIST	UNADJ ELEV	CORRECTION	ADJ EL(FT)
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LC-4 9.645	0.000	31.643		31.643
WELL WF-3 9.884	346.000	32.423	0.004	32.427

TP 266 9.779	700.000	32.073	0.009	32.082
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TP 205 9.929	813.000	32.566	0.010	32.576
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Closure : 0.010  
 Max Allowed: 0.020 (MTS)  
 Max Allowed: 0.010 (Second Order, Class II)

Distance : 813  
 Turns : 3  
 Error per Turn : 0.00333

Project:  
 Entered by: 03-31-2003 14:14:02

BM ADJ EL(M)	SUM DIST	UNADJ ELEV	CORRECTION	ADJ EL(FT)
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LEE-3 3.589	0.000	11.776		11.776
ESTERO S. RM5 3.583	31.000	11.753	0.001	11.754

LAG BOLT ON STAFF GA 1.726	63.000	5.663	0.001	5.664
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ESTERO S. RM3 3.351	168.000	10.990	0.003	10.993
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TP 19 4.658	588.000	15.270	0.012	15.282
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Closure : 0.012  
 Max Allowed: 0.017 (MTS)  
 Max Allowed: 0.008 (Second Order, Class II)

Distance : 588  
 Turns : 4  
 Error per Turn : 0.00300



## NGVD 29 Adjustment

Level Adjustment: 04-01-2003 06:34:09

From file: 30201--1.LIN

Project: Project: SFWMD LEE-COLLIER WELLS

Entered by: M. HOLT 03-14-2003 07:36:23

BM	SUM DIST	UNADJ ELEV	CORRECTION	ADJ EL(FT)
ADJ EL(M)				

W 244	0.000	13.540		13.540
4.127				

TP 1	317.000	17.543	0.001	17.544
5.347				

TP 2	774.000	13.660	0.001	13.661
4.164				

TP 3	1243.000	11.847	0.002	11.849
3.612				

TP 4	1707.000	11.967	0.003	11.970
3.648				

TP 5	2172.000	11.124	0.004	11.128
3.392				

A010	2704.000	12.744	0.004	12.748
3.886				

TP 6	3170.000	12.204	0.005	12.209
3.721				

TP 7	3635.000	14.527	0.006	14.533
4.430				

TP 8	4098.000	18.014	0.007	18.021
5.493				

TP 9	4553.000	18.891	0.007	18.898
5.760				

TP 10	5022.000	17.204	0.008	17.212
5.246				

TP 11	5483.000	17.097	0.009	17.106
5.214				

TP 12	5933.000	16.867	0.010	16.877
5.144				

TP 13 4.921	6398.000	16.134	0.010	16.144
TP 14 5.009	6858.000	16.424	0.011	16.435
TP 15 5.153	7320.000	16.894	0.012	16.906
TP 16 5.027	7831.000	16.481	0.013	16.494
TP 17 5.284	8307.000	17.321	0.014	17.335
TP 18 5.147	8773.000	16.871	0.014	16.885
TP 19 5.024	9262.000	16.468	0.015	16.483
LEE-3 3.955	9683.000	12.961	0.016	12.977
ESTERO S 4.967	9859.000	16.281	0.016	16.297
TP 20 5.141	10357.000	16.851	0.017	16.868
TP 21 5.346	10851.000	17.521	0.018	17.539
TP 22 4.985	11344.000	16.338	0.019	16.357
TP 23 5.412	11856.000	17.738	0.019	17.757
TP 24 5.762	12355.000	18.885	0.020	18.905
TP 25 5.631	12847.000	18.455	0.021	18.476
TP 26 6.652	13322.000	21.802	0.022	21.824
TP 27 7.006	13784.000	22.962	0.022	22.984
TP 28 7.324	14255.000	24.005	0.023	24.028

TP 29 7.120	14723.000	23.335	0.024	23.359
TP 30 6.382	15222.000	20.912	0.025	20.937
TP 31 6.047	15718.000	19.812	0.026	19.838
TP 32 5.865	16212.000	19.216	0.026	19.242
TP 33 5.686	16710.000	18.626	0.027	18.653
TP 34 5.799	17194.000	18.996	0.028	19.024
TP 35 5.684	17689.000	18.619	0.029	18.648
TP 36 5.773	18179.000	18.909	0.030	18.939
TP 37 6.033	18680.000	19.762	0.030	19.792
TP 38 6.134	19172.000	20.092	0.031	20.123
TP 39 6.149	19682.000	20.142	0.032	20.174
TP 40 6.397	20173.000	20.955	0.033	20.988
TP 41 6.392	20657.000	20.939	0.034	20.973
TP 42 6.634	21153.000	21.729	0.035	21.764
TP 43 6.708	21635.000	21.973	0.035	22.008
TP 44 6.629	22121.000	21.713	0.036	21.749
TP 45 6.649	22594.000	21.776	0.037	21.813
TP 46 6.877	23074.000	22.526	0.038	22.564

TP 47 6.927	23567.000	22.689	0.038	22.727
TP 48 6.856	24053.000	22.455	0.039	22.494
TP 49 6.924	24553.000	22.675	0.040	22.715
TP 50 6.884	25047.000	22.545	0.041	22.586
TP 51 6.794	25538.000	22.248	0.042	22.290
TP 52 6.831	26026.000	22.368	0.042	22.410
TP 53 6.946	26494.000	22.744	0.043	22.787
TP 54 6.835	26971.000	22.381	0.044	22.425
TP 55 6.877	27458.000	22.518	0.045	22.563
TP 56 6.674	27931.000	21.851	0.046	21.897
TP 57 6.842	28431.000	22.401	0.046	22.447
TP 58 6.871	28926.000	22.494	0.047	22.541
TP 59 6.566	29424.000	21.494	0.048	21.542
TP 60 6.816	29908.000	22.314	0.049	22.363
TP 61 6.681	30401.000	21.871	0.050	21.921
TP 62 6.912	30893.000	22.627	0.050	22.677
TP 63 6.809	31401.000	22.287	0.051	22.338
TP 64 6.866	31906.000	22.474	0.052	22.526

TP 65 6.957	32413.000	22.771	0.053	22.824
TP 66 6.817	32921.000	22.311	0.054	22.365
TP 67 6.957	33443.000	22.771	0.055	22.826
TP 68 6.859	33954.000	22.448	0.055	22.503
LEE-15 6.537	34309.000	21.391	0.056	21.447
TP 69 6.873	34775.000	22.491	0.057	22.548
TP 70 6.827	35243.000	22.341	0.057	22.398
TP 71 6.920	35704.000	22.644	0.058	22.702
TP 72 6.941	36180.000	22.714	0.059	22.773
TP 73 6.771	36644.000	22.154	0.060	22.214
LEE-16 6.331	36973.000	20.711	0.060	20.771
TP 74 6.900	37426.000	22.578	0.061	22.639
TP 75 6.852	37902.000	22.418	0.062	22.480
TP 76 6.812	38365.000	22.285	0.063	22.348
TP 77 6.968	38838.000	22.798	0.063	22.861
TP 78 6.846	39306.000	22.398	0.064	22.462
TP 79 6.971	39753.000	22.805	0.065	22.870
TP 80 6.867	40197.000	22.465	0.066	22.531

TP 81 6.851	40620.000	22.412	0.066	22.478
TP 82 6.781	40910.000	22.182	0.067	22.249
TP 83 6.551	41357.000	21.425	0.067	21.492
LEE-6 5.772	41403.000	18.871	0.068	18.939
TP 84 6.500	41578.000	21.258	0.068	21.326
TP 85 6.736	41857.000	22.031	0.068	22.099
TP 86 7.031	42306.000	22.998	0.069	23.067
TP 87 6.923	42755.000	22.645	0.070	22.715
TP 88 8.072	43103.000	26.411	0.070	26.481
A013 9.426	43422.000	30.854	0.071	30.925
TP 89 7.892	43670.000	25.820	0.071	25.891
TP 90 7.012	44043.000	22.933	0.072	23.005
TP 91 6.848	44497.000	22.393	0.073	22.466
TP 92 6.696	44958.000	21.896	0.073	21.969
TP 93 6.812	45414.000	22.276	0.074	22.350
TP 94 6.822	45862.000	22.306	0.075	22.381
TP 95 7.104	46339.000	23.233	0.076	23.309
TP 96 7.153	46805.000	23.393	0.076	23.469

TP 97 7.314	47266.000	23.920	0.077	23.997
TP 98 7.176	47737.000	23.467	0.078	23.545
TP 99 7.000	48213.000	22.887	0.079	22.966
TP 100 6.958	48701.000	22.747	0.079	22.826
TP 101 7.083	49157.000	23.157	0.080	23.237
TP 102 7.156	49635.000	23.397	0.081	23.478
TP 103 7.196	50111.000	23.527	0.082	23.609
TP 104 7.250	50580.000	23.704	0.083	23.787
TP 105 7.422	51045.000	24.267	0.083	24.350
TP 106 7.517	51517.000	24.577	0.084	24.661
TP 107 7.873	51998.000	25.744	0.085	25.829
TP 108 7.487	52467.000	24.477	0.086	24.563
TP 109 7.799	52928.000	25.500	0.086	25.586
TP 110 7.797	53414.000	25.494	0.087	25.581
TP 111 7.910	53890.000	25.864	0.088	25.952
TP 112 7.949	54353.000	25.991	0.089	26.080
TP 113 8.030	54838.000	26.254	0.089	26.343
TP 114 8.102	55316.000	26.490	0.090	26.580

TP 115 8.276	55806.000	27.060	0.091	27.151
TP 116 8.287	56287.000	27.097	0.092	27.189
TP 117 8.509	56768.000	27.824	0.093	27.917
TP 118 8.570	57244.000	28.024	0.093	28.117
TP 119 8.620	57733.000	28.187	0.094	28.281
TP 120 8.577	58228.000	28.044	0.095	28.139
TP 121 8.662	58716.000	28.324	0.096	28.420
TP 122 8.775	59160.000	28.694	0.097	28.791
TP 123 8.787	59606.000	28.730	0.097	28.827
TP 124 8.908	60045.000	29.127	0.098	29.225
TP 125 8.860	60486.000	28.970	0.099	29.069
TP 126 8.849	60917.000	28.933	0.099	29.032
TP 127 8.891	61394.000	29.070	0.100	29.170
TP 128 8.951	61867.000	29.267	0.101	29.368
TP 129 8.920	62336.000	29.164	0.102	29.266
TP 130 8.973	62815.000	29.337	0.102	29.439
TP 131 9.032	63302.000	29.530	0.103	29.633
TP 132 8.999	63770.000	29.420	0.104	29.524



TP 133 9.027	64250.000	29.510	0.105	29.615
TP 134 9.012	64740.000	29.460	0.106	29.566
TP 135 9.083	65231.000	29.693	0.106	29.799
TP 136 9.136	65712.000	29.866	0.107	29.973
TP 137 9.222	66191.000	30.149	0.108	30.257
TP 138 9.198	66677.000	30.069	0.109	30.178
TP 139 9.262	67149.000	30.279	0.110	30.389
TP 140 9.150	67627.000	29.909	0.110	30.019
TP 141 9.209	68118.000	30.102	0.111	30.213
TP 142 9.259	68595.000	30.265	0.112	30.377
TP 143 9.123	69064.000	29.818	0.113	29.931
TP 144 9.257	69554.000	30.258	0.113	30.371
TP 145 9.287	70027.000	30.355	0.114	30.469
TP 146 9.165	70499.000	29.955	0.115	30.070
TP 147 9.211	70985.000	30.105	0.116	30.221
TP 148 9.267	71452.000	30.288	0.117	30.405
TP 149 9.258	71932.000	30.258	0.117	30.375
TP 150 9.259	72398.000	30.258	0.118	30.376

TP 151 9.293	72637.000	30.371	0.118	30.489
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2 21 46 27 8.562	72689.000	27.971	0.119	28.090
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TP 152 9.304	73177.000	30.407	0.119	30.526
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TP 153 9.326	73633.000	30.477	0.120	30.597
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TP 154 9.454	74047.000	30.897	0.121	31.018
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TP 155 9.433	74535.000	30.827	0.122	30.949
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TP 156 9.391	75003.000	30.687	0.122	30.809
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TP 157 9.402	75326.000	30.724	0.123	30.847
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TP 158 9.439	75810.000	30.844	0.124	30.968
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TP 159 9.345	76288.000	30.534	0.124	30.658
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TP 160 9.395	76765.000	30.697	0.125	30.822
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TP 161 9.463	77244.000	30.920	0.126	31.046
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TP 162 9.929	77724.000	32.450	0.127	32.577
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TP 163 10.020	78207.000	32.747	0.128	32.875
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TP 164 10.028	78673.000	32.771	0.128	32.899
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TP 165 10.051	79148.000	32.848	0.129	32.977
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TP 166 9.995	79622.000	32.662	0.130	32.792
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TP 167 10.036	80094.000	32.796	0.131	32.927
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TP 168 9.972	80582.000	32.586	0.131	32.717
TP 169 9.921	81058.000	32.416	0.132	32.548
TP 170 10.108	81527.000	33.029	0.133	33.162
TP 171 10.082	82006.000	32.942	0.134	33.076
LC-6 10.125	82301.000	33.085	0.134	33.219
TP 172 10.049	82569.000	32.835	0.135	32.970
TP 173 9.978	82932.000	32.602	0.135	32.737
TP 174 10.024	83256.000	32.752	0.136	32.888
TP 175 10.083	83555.000	32.945	0.136	33.081
TP 176 10.236	83999.000	33.445	0.137	33.582
TP 177 10.161	84468.000	33.198	0.138	33.336
TP 178 10.310	84796.000	33.688	0.138	33.826
LC-7 9.149	85282.000	29.878	0.139	30.017
TP 179 9.140	85724.000	29.848	0.140	29.988
TP 180 10.124	86169.000	33.075	0.141	33.216
TP 181 10.298	86659.000	33.645	0.141	33.786
TP 182 10.303	87097.000	33.659	0.142	33.801
TP 183 10.406	87545.000	33.999	0.143	34.142

TP 184 10.139	88086.000	33.122	0.144	33.266
LEE-19 8.973	88303.000	29.295	0.144	29.439
TP 185 9.059	88545.000	29.575	0.144	29.719
TP 186 9.244	89016.000	30.182	0.145	30.327
TP 187 9.370	89504.000	30.596	0.146	30.742
TP 188 9.501	89943.000	31.023	0.147	31.170
TP 189 9.173	90424.000	29.946	0.148	30.094
LEE-18 9.081	90544.000	29.646	0.148	29.794
TP 190 9.393	90990.000	30.670	0.148	30.818
TP 191 9.232	91426.000	30.140	0.149	30.289
LC-8 9.286	91903.000	30.317	0.150	30.467
TP 192 9.234	92438.000	30.144	0.151	30.295
TP 193 9.307	92918.000	30.384	0.152	30.536
TP 194 9.457	93224.000	30.874	0.152	31.026
TP 195 9.289	93444.000	30.324	0.152	30.476
TP 196 9.061	93910.000	29.574	0.153	29.727
TP 197 9.300	94389.000	30.357	0.154	30.511
TP 198 9.358	94813.000	30.547	0.155	30.702

TP 199 9.377	95296.000	30.610	0.155	30.765
TP 200 9.539	95736.000	31.140	0.156	31.296
TP 201 9.148	96181.000	29.857	0.157	30.014
TP 202 9.411	96653.000	30.717	0.158	30.875
TP 203 9.249	97155.000	30.187	0.158	30.345
TP 204 9.682	97515.000	31.607	0.159	31.766
TP 205 10.298	98065.000	33.627	0.160	33.787
LC-4 10.014	98318.000	32.694	0.160	32.854
TP 206 10.286	98827.000	33.587	0.161	33.748
TP 207 10.072	99274.000	32.884	0.162	33.046
TP 208 10.137	99734.000	33.094	0.163	33.257
TP 209 9.220	100177.000	30.087	0.163	30.250
TP 210 9.477	100623.000	30.927	0.164	31.091
TP 211 9.410	101089.000	30.707	0.165	30.872
TP 212 9.231	101534.000	30.120	0.166	30.286
TP 213 9.148	101999.000	29.847	0.166	30.013
TP 214 9.359	102467.000	30.537	0.167	30.704
TP 215 9.375	102938.000	30.590	0.168	30.758

TP 216 9.334	103422.000	30.456	0.169	30.625
TP 217 9.358	103919.000	30.533	0.170	30.703
TP 218 9.375	104418.000	30.586	0.170	30.756
TP 219 9.354	104917.000	30.519	0.171	30.690
TP 220 9.341	105423.000	30.475	0.172	30.647
TP 221 9.456	105932.000	30.852	0.173	31.025
TP 222 9.473	106427.000	30.905	0.174	31.079
TP 223 9.580	106917.000	31.255	0.174	31.429
TP 224 9.499	107407.000	30.991	0.175	31.166
TP 225 9.294	107628.000	30.318	0.176	30.494
TP 226 9.305	108119.000	30.351	0.176	30.527
TP 227 9.396	108595.000	30.651	0.177	30.828
TP 228 9.452	108898.000	30.834	0.178	31.012
LC-10 9.723	109141.000	31.721	0.178	31.899
TP 229 9.461	109385.000	30.861	0.178	31.039
TP 230 9.251	109683.000	30.171	0.179	30.350
TP 231 9.032	110120.000	29.454	0.180	29.634
TP 232 9.121	110596.000	29.744	0.180	29.924

TP 233 9.006	111071.000	29.367	0.181	29.548
TP 234 9.135	111551.000	29.787	0.182	29.969
TP 235 9.180	112036.000	29.934	0.183	30.117
TP 236 9.044	112511.000	29.487	0.184	29.671
TP 237 9.039	112864.000	29.470	0.184	29.654
TP 238 9.228	113358.000	30.090	0.185	30.275
TP 239 9.172	113821.000	29.907	0.186	30.093
TP 240 9.589	114304.000	31.274	0.186	31.460
TP 241 9.571	114788.000	31.214	0.187	31.401
TP 242 9.565	115276.000	31.194	0.188	31.382
TP 243 9.447	115770.000	30.804	0.189	30.993
TP 244 9.544	116248.000	31.124	0.190	31.314
TP 245 9.520	116726.000	31.044	0.190	31.234
TP 246 9.184	117201.000	29.941	0.191	30.132
TP 247 9.223	117695.000	30.067	0.192	30.259
TP 248 9.321	118185.000	30.387	0.193	30.580
TP 249 9.213	118664.000	30.034	0.194	30.228
LEE-17 9.260	119015.000	30.187	0.194	30.381

TP 250 9.261	119526.000	30.190	0.195	30.385
TP 251 9.456	120023.000	30.827	0.196	31.023
TP 252 9.455	120428.000	30.824	0.196	31.020
P 533 9.471	120767.000	30.877	0.197	31.074

Closure : 0.197  
 Max Allowed: 0.239 (MTS)  
 Max Allowed: 0.120 (Second Order, Class II)

Distance : 120767  
 Turns : 269  
 Error per Turn : 0.00073

Project:  
 Entered by: 03-25-2003 09:22:07

BM ADJ EL(M)	SUM DIST	UNADJ ELEV	CORRECTION	ADJ EL(FT)	--
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P 533 9.471	0.000	31.074		31.074	
TP 253 9.303	477.000	30.521	0.001	30.522	
TP 254 9.368	976.000	30.734	0.001	30.735	
TP 255 9.516	1469.000	31.217	0.002	31.219	
TP 256 9.513	1967.000	31.207	0.003	31.210	
TP 257 9.522	2467.000	31.237	0.004	31.241	
TP 258 9.814	2965.000	32.193	0.004	32.197	
TP 259 9.193	3458.000	30.156	0.005	30.161	
TP 260 9.140	3958.000	29.980	0.006	29.986	



TP 261                    4452.000            32.010            0.006            32.016  
9.759

TP 262                    4952.000            31.240            0.007            31.247  
9.524

Q 533                    5509.000            31.517            0.008            31.525  
9.609

Closure        :    0.008  
Max Allowed:    0.051    (MTS)  
Max Allowed:    0.026    (Second Order, Class II)

Distance        :    5509  
Turns            :            11  
Error per Turn :    0.00073

Project:  
Entered by:    03-25-2003    09:35:37

BM                                    SUM DIST    UNADJ ELEV    CORRECTION    ADJ EL(FT)  
ADJ EL(M)

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LEE-17                                0.000            30.381                                30.381  
9.260  
  
WELL WF-1                            136.000            34.121            -0.001            34.120  
10.400  
  
TP 249                                538.000            30.231            -0.003            30.228  
9.214

Closure        :   -0.003  
Max Allowed:    0.016    (MTS)  
Max Allowed:    0.008    (Second Order, Class II)

Distance        :    538  
Turns            :            2  
Error per Turn :   -0.00150

BM                                    SUM DIST    UNADJ ELEV    CORRECTION    ADJ EL(FT)  
ADJ EL(M)

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LC-10                                0.000            31.899                                31.899  
9.723  
  
WELL WF-2                            104.000            35.489            0.002            35.491  
10.818  
  
TP 230                                560.000            30.339            0.011            30.350  
9.251

Closure : 0.011  
 Max Allowed: 0.016 (MTS)  
 Max Allowed: 0.008 (Second Order, Class II)

Distance : 560  
 Turns : 2  
 Error per Turn : 0.00550

BM	SUM DIST	UNADJ ELEV	CORRECTION	ADJ EL(FT)
ADJ EL(M)				

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LEE-18 9.081	0.000	29.794		29.794
WELL WF-5 10.538	90.000	34.574	-0.001	34.573
TP 263 9.235	181.000	30.301	-0.002	30.299
TP 189 9.173	292.000	30.098	-0.004	30.094
Closure : -0.004				
Max Allowed: 0.012 (MTS)				
Max Allowed: 0.006 (Second Order, Class II)				
Distance : 292				
Turns : 3				
Error per Turn : -0.00133				

BM	SUM DIST	UNADJ ELEV	CORRECTION	ADJ EL(FT)
ADJ EL(M)				

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LEE-19 8.973	0.000	29.439		29.439
WELL WF-7 10.495	184.000	34.435	-0.003	34.432
TP 184 10.140	343.000	33.272	-0.006	33.266
Closure : -0.006				
Max Allowed: 0.013 (MTS)				
Max Allowed: 0.006 (Second Order, Class II)				
Distance : 343				
Turns : 2				

Error per Turn : -0.00300

BM	SUM DIST	UNADJ ELEV	CORRECTION	ADJ EL(FT)
ADJ EL(M)				

LC-7 9.149	0.000	30.017		30.017
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WELL WF-6 10.054	147.000	32.984	0.002	32.986
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TP 264 10.201	345.000	33.464	0.004	33.468
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TP 265 10.306	695.000	33.804	0.008	33.812
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TP 177 10.161	1013.000	33.324	0.012	33.336
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Closure : 0.012  
Max Allowed: 0.022 (MTS)  
Max Allowed: 0.011 (Second Order, Class II)

Distance : 1013  
Turns : 4  
Error per Turn : 0.00300

BM	SUM DIST	UNADJ ELEV	CORRECTION	ADJ EL(FT)
ADJ EL(M)				

LC-6 10.125	0.000	33.219		33.219
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WELL WF-4 10.165	124.000	33.349	-0.001	33.348
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TP 171 10.082	492.000	33.079	-0.003	33.076
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Closure : -0.003  
Max Allowed: 0.015 (MTS)  
Max Allowed: 0.008 (Second Order, Class II)

Distance : 492  
Turns : 2  
Error per Turn : -0.00150

BM   SUM DIST   UNADJ ELEV   CORRECTION   ADJ EL(FT)  
 ADJ EL(M)

BM	SUM DIST	UNADJ ELEV	CORRECTION	ADJ EL(FT)
LC-4 10.014	0.000	32.854		32.854
WELL WF-3 10.253	346.000	33.634	0.004	33.638
TP 266 10.148	700.000	33.284	0.009	33.293
TP 205 10.298	813.000	33.777	0.010	33.787
Closure :	0.010			
Max Allowed:	0.020	(MTS)		
Max Allowed:	0.010	(Second Order, Class II)		
Distance :	813			
Turns :	3			
Error per Turn :	0.00333			

Project:  
 Entered by:   03-31-2003   14:14:02

BM   SUM DIST   UNADJ ELEV   CORRECTION   ADJ EL(FT)  
 ADJ EL(M)

BM	SUM DIST	UNADJ ELEV	CORRECTION	ADJ EL(FT)
LEE-3 3.955	0.000	12.977		12.977
ESTERO S. RM5 3.949	31.000	12.954	0.001	12.955
LAG BOLT ON STAFF GA 2.093	63.000	6.864	0.001	6.865
ESTERO S. RM3 3.717	168.000	12.191	0.003	12.194
TP 19 5.024	588.000	16.471	0.012	16.483
Closure :	0.012			
Max Allowed:	0.017	(MTS)		
Max Allowed:	0.008	(Second Order, Class II)		
Distance :	588			
Turns :	4			
Error per Turn :	0.00300			