

Identification_Information:
Citation:

Ben R. Homola
Deni & Associates

Citation_Information:
Originator: Ben R. Homola(ed.)
Publication_Date: 20030311
Publication_Time: 15000000
Title: S. F. W. M. D. Well_FTDN
Edition: 1
Series_Information:
Publication_Information:
Publication_Place: Not published
Publisher: None
Online_Linkage: ben.homola@deniassoc.com
Larger_Work_Citation:
Citation_Information:
Series_Information:
Publication_Information:

Description:

Purpose

Abstract:
South Florida Water Management District
Well_FTDN
Purpose:
To establish NAVD 88 and NGVD 29 elevations on the
wells reference marks.
Also establish a nearby site benchmark.

Survey Date

Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Range_of_Dates/Times:
Beginning_Date: 20030204
Ending_Date: 20030211
Multiple_Dates/Times:

Status:

Currentness_Reference: Publication Date
Progress: Complete
Maintenance_and_Update_Frequency: Unknown

Spatial_Domain:

Bounding_Coordinates:
West_Bounding_Coordinate: -081°29'40.99"
East_Bounding_Coordinate: -081°29'40.99"
North_Bounding_Coordinate: +26°45'41.97"
South_Bounding_Coordinate: +26°45'41.92"

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_FTDN
Place_Keyword: Sec. 2, Twp. 43 S., Rge. 28 E.
Place_Keyword: Hendry County, Florida

Stratum:

Temporal:

Access_Constraints: None

Use_Constraints:

The wells have keyed locks.
See point of contact for key.

Point_of_Contact:

Elvie Ebanks
SFWMD

District

Contact_Information:
Contact_Person_Primary:
Contact_Person: Elvie D. Ebanks
Contact_Organization: South Florida Water Management
Contact_Organization_Primary:
Contact_Position: Professional Surveyor & Mapper
Contact_Address:
Address_Type: mailing and physical address
Address: 8894 Belvedere Road
City: West Palm Beach

Well_FTDN.gen
State_or_Province: Florida
Postal_Code: 33411
Country: USA
Contact_Voice_Telephone: (561) 686-8800, Ext. 4717
Contact_Facsimile_Telephone: (561) 791-4093
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

This survey was prepared using GPS and Leveling instruments. The horizontal location of the wells and benchmark was performed using GPS.

The vertical data was collected using a TOPCON DL-101C electronic digital level.

Coordinates are based on the Florida State Plane Coordinate System, East Zone, NAD 83/99.

Elevations are based on NAVD 88 and NGVD 29.

Logical_Consistency_Report:

Horizontal data was established using control point K 519.

Vertical data was established using control points J 519 and K 519.

Completeness_Report:

Horizontal location taken at approximate center of wells.

Project Results

Well_FTDN_GW1

Lat. +26°45'41.967"

Long. -081°29'40.987"

N 882847.9

E 494737.2

Existing reference mark is an arrow on the inside of the northeast side of a 4" PVC pipe with the elevation taken on top of the rim of the pipe with an NGVD 29 elevation of 19.745' Dated 6/8/01 with initials EE/KS

New leveled elevations.

18.46' (NAVD 88)

19.75' (NGVD 29) based on old site benchmark. A railroad spike in a power pole northeast and across the road from the wells.

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

Well_FTDN_GW2

Lat. +26°45'41.922"

Long. -081°29'40.991"

N 882843.1

E 494736.8

Existing reference mark is an arrow on the south side of a 2" PVC pipe level with the wood platform with the elevation taken on top of the rim of the pipe with an NGVD 29 elevation of 22.425' Dated 6/8/01 with initials EE/KS

New leveled elevations.

21.13' (NAVD 88)

22.42' (NGVD 29) based on old site benchmark. A railroad spike in a power pole northeast and across the road from the wells.

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

NEW SITE BENCHMARK.

HEND-1 is a standard C.O.E. brass disk set in top of a class "C" concrete monument flush with the ground.

To reach from the intersection of S.R. 29 and C.R. 78, 0.5 mile north of La Belle; Go west on C.R. 78 for 3.5 miles to North River Road; thence west on North River Road for 0.9 mile to Niles Road; thence north on Niles Road for 0.5 mile to end of road and mark. Mark is 45.5', 76° magnetic

Well FTDN.gen

azimuth from FTDN well GW1. 47.0', 69° magnetic
azimuth from FTDN well GW2. 22.8', 86° magnetic
azimuth from the centerline end of pavement for Niles
Road. 4.7'. 280° magnetic azimuth from a wood power
pole with a SFWMD witness sign. A magnet was set 1-foot
west and 0.3' below grade from the mark.

Horizontal Location.

Lat. +26°45'42.110"

Long. -081°29'40.513"

N 882861.9

E 494780.2

Elevations.

18.91' (NAVD 88)

20.20' (NGVD 29) based on old site benchmark. A railroad
spike in a power pole northeast and across the road from
the wells.

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

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

The horizontal positions of the wells and benchmark
HEND-1 were established with GPS RTK using control
point K 519 in accordance with the Florida Minimum
Technical Standards (Chapter 61G17-6).

Quantitative_Horizontal_Positional_Accuracy_Assessment:

Horizontal_Positional_Accuracy_Value: 0.2'

Horizontal_Positional_Accuracy_Explanation: The intended

positional accuracy for this survey is 3 feet.

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report:

A level line was run originating on benchmark J 519 with
an NAVD 88 elevation and running through HEND-1 and
terminating on benchmark K 519 in accordance with
Florida Minimum Technical Standards (Chapter 61G17-6).
The NGVD 29 elevation established for this survey were
determined by using an existing SFWMD old site
benchmark at this well site and a readjustment of the

level

line using the values from the NGS NGVD 29 adjustment
of CERP vertical network.

Quantitative_Vertical_Positional_Accuracy_Assessment:

Vertical_Positional_Accuracy_Value: 0.038 m

Vertical_Positional_Accuracy_Explanation: NAVD 88 level

run, 0.038 m closure in 17,981 m, max. allowed 0.051 m (MTS)

Quantitative_Vertical_Positional_Accuracy_Assessment:

Vertical_Positional_Accuracy_Value: 0.037 m

Vertical_Positional_Accuracy_Explanation: NGVD 29 level

run, 0.037 m closure in 17,981 m, max. allowed 0.167 m (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 Trimble GPS
4700 units. RTK methodology was used.

The level line was performed using a TOPCON DL-101C
electronic digital level.

Well_FTDN.gen
 Process_Date: 20030311
 Process_Time: 18000000
 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:
 Map_Projection:
 Albers_Conical_Equal_Area:
 Azimuthal_Equidistant:
 Equidistant_Conic:
 Equiangular:
 General_Vertical_Near-sidereal_Perspective:
 Gnomonic:
 Lambert_Azimuthal_Equal_Area:
 Lambert_Conformal_Conic:
 Mercator:
 Modified_Stereographic_for_Alaska:
 Miller_Cylindrical:
 Oblique_Mercator:
 Oblique_Line_Point:
 Orthographic:
 Polar_Stereographic:
 Polyconic:
 Robinson:
 Sinusoidal:
 van_der_Grinten:
 Space_Oblique_Mercator_(Landsat):
 Stereographic:
 Transverse_Mercator:
 van_der_Grinten:
 Grid_Coordinate_System:
 Universal_Transverse_Mercator:
 Transverse_Mercator:
 Universal_Polar_Stereographic:
 Polar_Stereographic:
 StatePlane_Coordinate_System:
 Lambert_Conformal_Conic:
 Transverse_Mercator:
 Oblique_Mercator:
 Oblique_Line_Point:
 Polyconic:
 ARC_Coordinate_System:
 Equiangular:
 Azimuthal_Equidistant:
 Local_Planar:
 Planar_Coordinate_Information:
 Coordinate_Representation:
 Distance_and_Bearing_Representation:
 Local:
 Geodetic_Model:
 Horizontal_Datum_Name: North American Datum of 1983
 Ellipsoid_Name: Geodetic Reference System 80
 Vertical_Coordinate_System_Definition:
 Altitude_System_Definition:
 Depth_System_Definition:
 Entity_and_Attribute_Information:
 Detailed_Description:
 Entity_Type:
 Attribute:
 Attribute_Domain_Values:
 Attribute_Value_Accuracy_Information:
 Overview_Description:
 Distribution_Information:
 Distributor:

Well_FTDN.gen

Contact_Information:

Contact_Person_Primary:

Contact_Organization_Primary:

Contact_Address:

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Digital_Transfer_Option:

Online_Option:

Computer_Contact_Information:

Network_Address:

Dialup_Instructions:

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: 20030311

Metadata_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Ben R. Homola

Contact_Organization: Deni Associates, Inc.

Contact_Organization_Primary:

Contact_Position: Project Surveyor

Contact_Address:

Address_Type: mailing and physical address

Address: 6241 Arc Way

City: Fort Myers

State_or_Province: Florida

Postal_Code: 33912

Country: USA

Contact_Voice_Telephone: (239) 275-8875

Contact_Facsimile_Telephone: (239) 275-7029

Contact_Electronic_Mail_Address: ben.homola@deniassoc.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

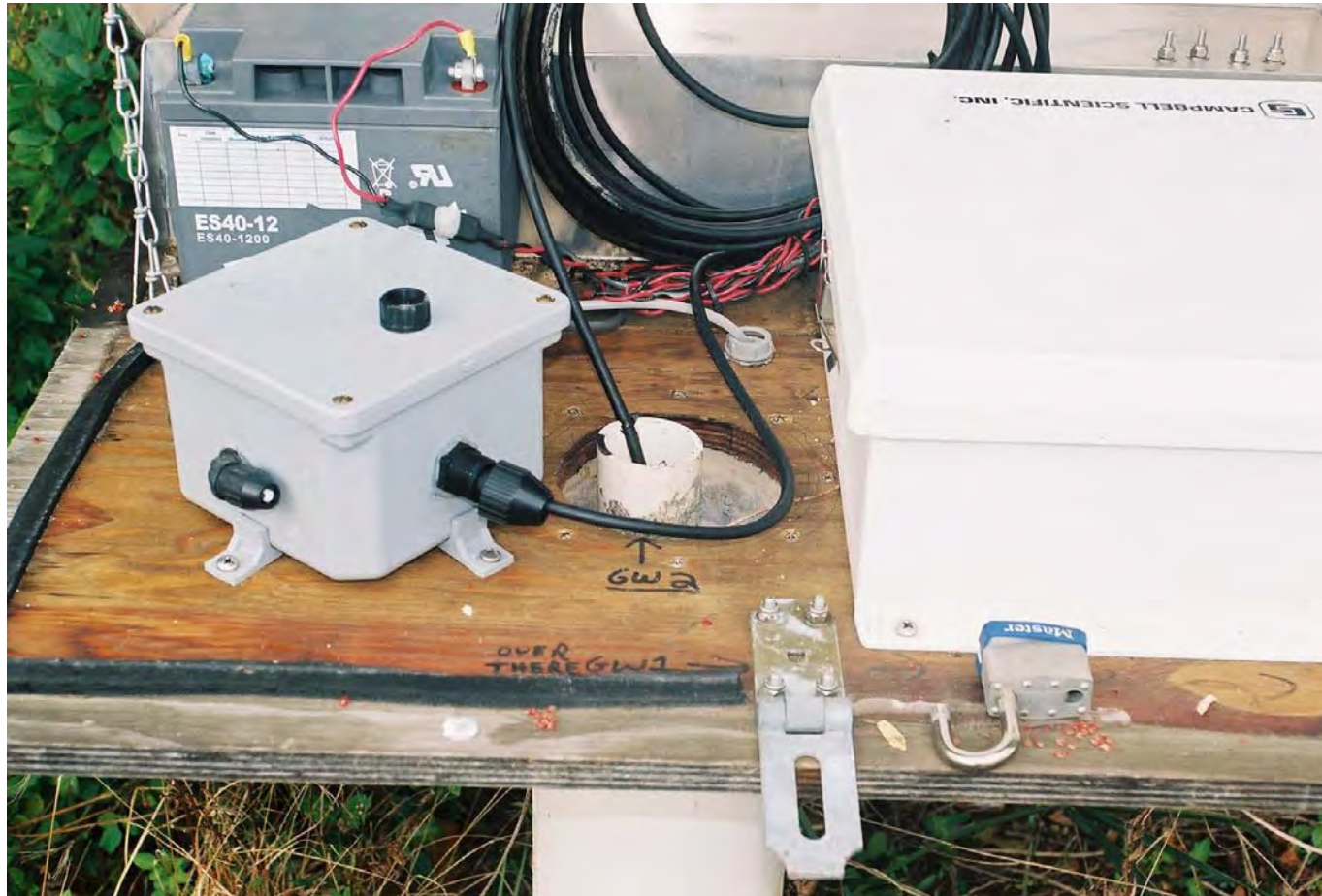
Metadata_Security_Information:

FTDN



Deni Associates, Inc.
Date of Photo: February 11, 2003
View: Southeast Side view

FTDN GW 2



Deni Associates, Inc.

Date of Photo: February 11, 2003

View: GW 2

FTDN GW 1



Deni Associates, Inc.

Date of Photo: February 11, 2003

View: GW 1

FTDN BM Hend-1



Deni Associates, Inc.

Date of Photo: February 11, 2003

View: BM Hend-1

JOB

DATEPAGE

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SIDE LEVEL LINE TO FTDN WELLS		21
LEVEL PEG TEST		23
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HORIZ. LOCATION OF NICO2		31
SIDE LEVEL LINE TO NICO2		



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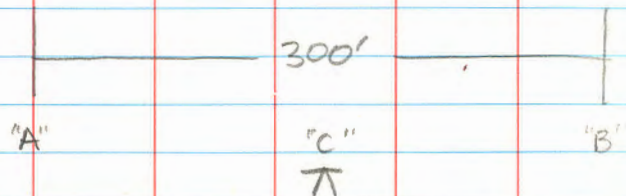
ITEM	PAGE
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PEG TEST



FEBRUARY 19, 2003
 TOPCON DL10K
 SER# UG0455

ROD READING FROM POINT "C"

ROD READING @ "A"	5.8696
ROD READING @ "B"	5.8390

DIFF IN ELEV.	.0306
---------------	-------

ROD READING FROM NEAR POINT "A"

@ POINT "A"	5.4017
- DIFF. IN ELEV.	.0306
COMPUTED READING	5.3711
ACTUAL READING	5.3668
DIFF.	.0043



JOB 30102-1

DATE 02-04-03 PAGE

LEVEL RUN TO FTDN

B.M.	B/S	DIST.	HI	FS	DIST.	ELEV.	ADJ. ELEV.	DESCRIPTION
J519	5.480	244'	25.120				19.64	STEEL ROD IN FLANGE
TP1	4.965	247'	27.801	2.284	239'	22.836	22.835	SET 6" HUB
TP2	5.329	154'	28.535	4.595	247'	23.206	23.204	SET 6" HUB
TP3	3.203	245'	26.014	5.724	154'	22.811	22.808	" " "
TP4	4.850	241'	26.390	4.474	241'	22.540	21.536	" " "
TP5	4.773	242'	26.821	4.342	242'	22.048	22.043	" " "
TP6	4.681	219'	26.554	4.948	248'	21.873	21.867	SET 6" HUB
TBM 4	2.828	250'	24.887	4.495	232'	22.059	22.052	FD. STND. DISK ON H. WALL @ N.W. COR OF THIGPEN & COUNTY ROAD
TP7	4.803	227'	24.896	4.794	249'	20.093	20.086	SET 6" HUB
TP8	4.560	240'	23.815	5.641	227'	19.255	19.247	" " "

JOB

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JOB 30102-1

DATE 02-04-03 PAGE

B.M	B/S	DIST	HI	FS	DIST	ELEV	ADJ ELEV	DESCRIPTION
TP 9	3.980	233'	22.855'	4.940	235'	18.875	18.865	SET 6" HUB
TP 10	3.820	220'	21.095'	5.580	238'	17.275	17.264	" "
TP 11	3.442	171'	19.637'	4.900	225'	16.195	16.183	" "
TBM 2	4.981	244'	20.610'	4.008	176'	15.628	15.616	SET P/K NW COR NOBLES & THIS PEN
TP 12	5.083	230'	20.773	4.920	242'	15.690	15.676	SET 6" HUB
TP 13	5.072	234'	21.327	4.518	230'	16.255	16.241	" "
TP 14	5.813	235'	21.586	5.553	232'	15.773	15.758	" "
TP 15	5.947	241'	23.395	4.139	233	17.448	17.431	" "
TP 16	5.664	228'	23.895	5.163	242'	18.231	18.214	" "
TP 17	4.752	237'	24.677	3.970	232'	19.925	19.907	" "
TBM 3	4.984	233'	25.284	4.378	239'	20.300	20.280	SET PK S. SIDE NOBLES AD.

JOB

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JOB 30102-1 CHG
 DATE 02-05-03 PAGE EMD
 SAR

BM	B/S	DIST	HI	F/S	DIST
TP18	4.882	235'	25.569	4.597	2.32'
TP19	5.546	236'	27.088	4.027	2.32'
TBM4	3.162	234'	25.062	5.188	1.96'
TP20	3.959	238'	23.446	5.574	2.33'
TP21	3.752	243'	21.991	5.207	2.33'
TP22	5.106	240'	21.170	5.927	2.42'
TP23	4.509	203'	20.272	5.407	2.35'
TBM5	5.229	254'	20.891	4.610	2.16'
TBM6	5.048	239'	21.219	4.720	2.51'
TP24	5.760	240'	21.640	5.340	2.40'
TP25	6.061	241'	22.691	5.001	2.43'

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JOB
 DATE PAGE 9

ELEV	ADJ ELEV	DESCRIPTION
20.687	20.666	SET 6" HUB
21.542	21.520	" "
21.900	21.877	RR SPIKE IN S. FACE OF WOOD LIGHT POLE INT. OF NOBLE AND CREEK
19.488	19.464	SET 6" HUB
18.239	18.215	" "
16.064	16.039	" "
15.763	15.737	" "
15.662	15.635	PK NAIL IN EOP - CR78/NOBLES
16.171	16.143	SET 6" HUB
15.879	15.850	" "
16.630	16.600	" "

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BM	B/S	DIST	HI	F/S	DIST
TP26	5.313	241'	23.801	4.209	235'
TP27	5.479	238'	24.720	4.560	239'
TP28	4.850	250'	24.726	4.844	241'
TBM7	4.585	256'	24.595	4.716	238'
TP29	5.697	243'	26.155	4.136	254'
TP30	4.750	249'	25.841	5.064	241'
TP31	6.724	219'	24.872	7.693	247'
TP32	4.005	244'	23.809	5.068	217'
TP33	4.250	239'	22.906	5.153	245'
TP34	4.823	244'	23.091	4.638	240'
TP35	4.384	244'	22.665	4.810	234'

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ELEV	ADJ ELEV	DESCRIPTION
18.487	18.456	SET 6" HUB
19.240	19.208	" "
19.876	19.842	" "
20.010	19.976	PK NAIL IN N. EOP OF CR78 @ ROBB RD
20.458	20.423	SET 6" HUB
21.091	21.055	" "
18.149	18.111	" "
19.804	19.766	" "
18.656	18.617	SET 6" HUB
18.267	18.227	" "
18.281	18.239	" "

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 WEATHER



JOB 30102-1

DATE 07-05-03 PAGE

BM	B/S	DIST	HI	F/S	DIST
TBM 8	3.991	244'	21.424	5.232	245'
TP 36	4.252	246'	20.501	5.175	247'
TP 37	4.788	221'	20.224	5.065	249'
TP 38	4.262	227'	19.191	5.294	221'
TP 39	6.235	218'	20.955	4.471	221'
TP 40	4.301	202'	18.307	6.949	226'
TP 41	5.721	240'	19.775	4.253	199'
TP 42	5.191	233'	21.218	3.748	235'
TP 43	5.184	235'	22.148	4.254	231'
TBM 9	4.964	238'	23.091	4.020	234'
TP 44	5.243	228'	25.260	3.074	238'

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ELEV	ADJ ELEV	DESCRIPTION
17.433	17.391	SET P/L & N.E.P ENT TO OAK HAVEN TRAILOR PARK
16.249	16.206	6" HUB
15.436	15.392	" "
14.930	14.884	" "
14.720	14.674	6" HUB
14.005	13.958	" "
14.054	14.006	" "
16.027	15.978	" "
16.964	16.914	" "
18.123	18.077	SET P/L N.E.P. 600'± E OF N RIVER RD
20.017	19.965	6" HUB

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BM	B/S	DIST	HI	F/S	DIST	ELEV	ADJ ELEV	DESCRIPTION
TP 45	6.041	174'	24.020	7.281	228'	17.979	17.926	6" HUB
TBM 10				4.011	177'	20.008	19.955	R.R. SP. IN S FACE W.P.P. W END BRIDGE 600' W OF INT N RIVER RD E. SP 78
02-06-03		CHG JAR	EMD					
TBM 10	3.084	227'	23.093			20.008	19.955	R.R. SP. IN S. FACE P.P. --
TP 46	4.697	246'	23.578	4.212	215'	18.881	18.826	SET TURNS ONLY
TP 47	4.507	245'	23.408	4.677	245'	18.901	18.846	" "
TP 48	5.226	246'	23.616	5.018	246'	18.390	18.334	" "
TP 49	5.221	246'	23.721	5.116	245'	18.500	18.442	" "
TP 50	5.189	239'	23.367	5.544	243'	18.178	18.119	" "
TP 51	4.950	241'	23.484	4.868	241'	18.499	18.439	" "



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BM	B/S	DIST.	HI	F/S	DIST.	ELEV.	ADJ. ELEV.		DESCRIPTION
TP 52	5.674	235'	23.922	5.201	245'	18.248	18.187		SET T.P. FOR TURNS ONLY
TP 53	4.953	196'	23.745	5.130	239'	18.792	18.730	"	"
TP 54	4.853	237'	23.411	5.187	204'	18.558	18.495	"	"
TP 55	5.174	241'	23.439	5.146	237'	18.265	18.201	"	"
TP 56	5.092	235'	23.488	5.042	243'	18.397	18.332	"	"
TP 57	5.282	234'	23.718	5.052	233'	18.436	18.371	"	"
TP 58	7.326	238'	23.765	7.280	239'	16.438	16.372	"	"
TP 59	5.804	136'	24.173	5.396	242'	18.369	18.301	"	"
TBM 11 (HEND-1)	5.096	137'	24.076	5.193	136'	18.980	18.912		SET B.M. IN CONC. (NEAR WELLS) HEND-1
TBM 12				4.222	137'	19.954	19.785		FD. R.R. SPIKE IN P. POLE (NILES RD.)

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DATE 02-07-03 PAGE

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B.M	B/S	DIST.	HI	FS	DIST.	ELEV.	ADJ. ELEV.	DESCRIPTION
TBM 12	4.319	225'	24.173			19.854	19.785	FD. R.R. SPIKE IN PP.
TP 60	5.281	255'	23.405	6.049	227'	18.124	18.054	TURNS ONLY
TP 61	6.091	246'	23.402	6.094	255'	17.311	17.240	" "
TP 62	5.675	240'	23.567	5.510	246'	17.892	17.820	" "
TP 63	5.595	247'	23.549	5.613	241'	17.954	17.881	" "
TP 64	5.994	239'	23.832	5.711	244'	17.838	17.764	" "
TP 65	4.812	240'	23.817	4.827	237'	19.005	18.930	TURNS ONLY
TP 66	5.106	234'	24.044	4.879	240'	18.938	18.862	" "
TP 67	5.812	240'	24.336	5.520	232'	18.524	18.447	" "
TP 68	5.710	243'	24.211	5.835	240'	18.501	18.423	" "
TP 69	5.195	248'	24.337	5.068	241'	19.143	19.064	" "

PARTY CHIEF CHG-EMD-JAR

WEATHER

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B.M	B/S	BIST.	HI	F/S	DIST.
TP 70	5.611	238'	24.314	5.634	248'
TP 71	5.345	230'	24.177	5.482	230'
TP 72	5.451	232'	24.059	5.569	231'
TP 73	6.273	245'	24.743	5.589	236'
TP 74	4.404	246'	22.226	6.921	249'
TP 75	3.350	238	23.407	2.169	245'
TP 76	4.526	231'	22.254	5.679	239'
TP 77	4.822	249'	21.997	5.079	231'
TP 78	5.050	241'	20.468	6.579	250'
TP 79	7.629	196'	21.493	6.604	245'
TP 80	5.128	243'	21.700	4.921	181'

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ELEV.	ADJ. ELEV.	DESCRIPTION
18.703	18.623	TURNS ONLY
18.832	18.751	" "
18.608	18.526	" "
18.471	18.388	" "
17.822	17.738	" "
20.058	19.972	" "
17.729	17.642	" "
17.175	17.088	" "
15.418	15.330	" "
13.864	13.775	" "
16.572	16.482	" "

PARTY CHIEF

WEATHER

PARTY CHIEF

WEATHER



JOB CONT

DATEPAGE

B.M	B/S	DIST.	HI	F/S	DIST
TP 81	4.181	222'	19.940	5.940	245'
TP 82	5.433	234'	20.206	5.168	222'
TP 83	5.146	237'	20.776	4.576	229'
TP 84	5.426	242'	21.782	4.420	237'
TP 85	5.002	227'	22.798	3.986	244'
TP 86	4.789	235'	23.239	4.348	228'
TP 87	4.544	244'	23.148	4.635	235'
TP 88	5.378	235'	24.017	4.509	246'
TP 89	6.136	250'	25.841	4.312	236'
TP 90	2.632	231'	25.783	2.690	246'
TP 91	4.501	231'	25.904	4.387	231'

PARTY CHIEF

WEATHER



JOB

DATEPAGE 16.....

ELEV	ADJ ELEV	DESCRIPTION
15.760	15.668	TURN USE ONLY
14.772	14.681	" "
15.630	15.537	" "
16.356	16.262	" "
17.796	17.701	" "
18.450	18.354	" "
18.604	18.507	TURN USE ONLY
18.639	18.541	" "
19.705	19.606	" "
23.151	23.051	" "
21.396	21.295	" "

PARTY CHIEF

WEATHER



JOB CONT

DATE 02/07/03 PAGE

BM	B/S	DIST.	HI	F/S	DIST
----	-----	-------	----	-----	------

TP 92	2.842	242'	23.794	4.952	230'
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TP 93	3.894	242'	24.515	3.173	239'
-------	-------	------	--------	-------	------

TP 94				4.525	241'
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02/11/03

CHG/JAR

TP 94	3.972	255'	23.963		
-------	-------	------	--------	--	--

TP 95	3.543	245'	23.446	4.059	251'
-------	-------	------	--------	-------	------

TP 96	3.431	245'	22.443	4.434	247'
-------	-------	------	--------	-------	------

TP 97	3.461	242'	21.046	4.858	245'
-------	-------	------	--------	-------	------

TP 98	5.024	239'	20.983	5.087	244'
-------	-------	------	--------	-------	------

TP 99	3.762	240'	20.248	4.437	239'
-------	-------	------	--------	-------	------

TP 100	3.650	247'	19.818	4.079	241'
--------	-------	------	--------	-------	------

TP 101	3.675	246'	19.145	4.348	245'
--------	-------	------	--------	-------	------

JOB

DATE PAGE 17

ELEV	ADJ ELEV		DESCRIPTION
------	----------	--	-------------

20.952	20.850	TP 92	TURN USE ONLY
--------	--------	-------	---------------

20.621	20.518	TP 93	" "
--------	--------	-------	-----

19.990	19.886	TP 94	SET P/R N. FOR SOLID
--------	--------	-------	----------------------

T.P. END OF DAY

19.990	19.886	TP 94	" "
--------	--------	-------	-----

19.903	19.798	TP 95	TURNS ONLY
--------	--------	-------	------------

19.012	18.906	TP 96	" "
--------	--------	-------	-----

17.585	17.478	TP 97	" "
--------	--------	-------	-----

15.959	15.851	TP 98	" "
--------	--------	-------	-----

16.546	16.437	TP 99	" "
--------	--------	-------	-----

16.168	16.058	TP 100	" "
--------	--------	--------	-----

15.470	15.359	TP 101	" "
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PARTY CHIEF

WEATHER

PARTY CHIEF

WEATHER



BM	B/S	DIST.	H.I	F/S	DIST
TP 102	4.286	238'	18.849	4.582	244'
TP 103	4.526	243'	19.451	3.924	239'
TP 104	4.128	235'	19.463	4.115	247'
TP 105	4.009	231'	18.717	4.755	233'
TP 106	3.847	235'	18.828	3.737	232'
TBM 13	3.335	231'	18.407	3.756	234'
TP 107	4.357	236'	18.894	3.869	233'
TP 108	3.769	245'	18.349	4.314	237'
TP 109	4.536	243'	19.915	2.970	244'
TP 110	2.090	250'	17.522	4.483	245'

ELEV	ADJ. ELEV.	DESCRIPTION
14.563	14.451	TURN ONLY
14.925	14.812	" "
15.336	15.221	" "
14.708	14.593	" "
14.980	14.864	" "
15.072	14.955	SET SP. IN 5 FACE W.P. N.E COR INT. AVACON? CR 78 POLE# 58627070807
14.537	14.419	TURN ONLY
14.581	14.462	" "
15.379	15.259	" "
15.432	15.311	" "



JOB CONT
 DATE 02/11/03 PAGE

B.M	B/S	DIST	H.I	F/S	DIST
TP 111	3.020	230'	17.897	2.645	250'
TP 112	2.907	213'	16.825	3.979	242'
TP 113	2.310	29'	15.857	3.278	210'
K 519				5.223	29'

JOB
 DATE PAGE 19

ELEV	ADJ ELEV	DESCRIPTION
14.877	14.755	TURNS ONLY
13.918	13.795	" "
13.547	13.423	" "
10.634	10.510	FND STD 4x4 CORSE ENG. 0M ± BRASS DISK. 300' ± NE OF INT. SR 29 ± CR 78



PARTY CHIEF
 WEATHER



PARTY CHIEF
 WEATHER

FTDN WELLS
GROUND WATER

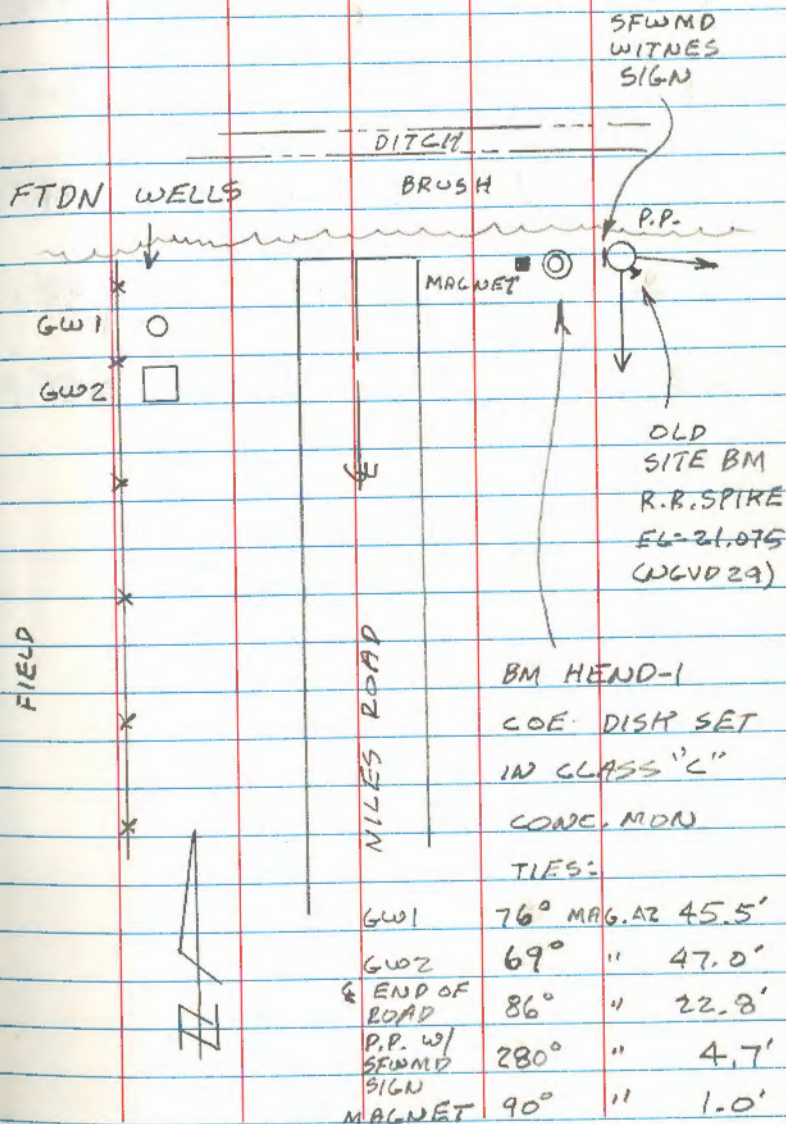
GW1 "↑" MARK ON INSIDE OF
NE. SIDE OF 4" PVC PIPE
EL. AT TOP RIM OF PIPE
EL=19.745 (NGVD 29)
6/8/01 EE/KS

GW2 "↑" MARK ON S. SIDE OF
2" PVC PIPE AT WELL
PLATFORM LEVEL
EL=22.425 (NGVD 29) TOP RIM
OF PIPE
6/8/01 EE/KS

PHOTOS

- 1 SE. SIDE VIEW OF WELLS
- 2 REF. MARK WELL GW2
- 3 " " " GW1
- 4 BM HEND-1

NEED KEY TO LOCKS



JOB 30102-1A

DATE 2-11-03 PAGE

SIDE LEVEL LINE TO FTDN WELLS

BM	B/S	DIST.	HI	F/S	DIST.
HEND-1	3.934	57'	22.846		
GW1	4.172	56'	22.630	4.388	56'
G.W-2	1.725	53'	22.859	1.496	53'
TBM 12 (SEE PG. 13)				3.071	57'

JOB

DATE PAGE 21

ELEV.	ADJ. ELEV.	DESCRIPTION
18.912	18.912	FD. BRASS DIEK IN CONC. BASE.
18.458	18.457	EL. ON PCP PIPE (MARKED IN BLACK) ^{OLD EL.} 19.745
21.134	21.132	EL. ON PCP PIPE (MARKED IN BLACK) 22.425
19.788	19.785	

PARTY CHIEF CHG - JAR

WEATHER



PARTY CHIEF

WEATHER



Closure Report for file D:\Levels Raw\30103-1.l ev

Job No. : 30102-1
 Benchmark No. : J-519
 Starting BM El ev. : 19. 640
 Ending BM El ev. : 10. 510
 Unadjusted Ending El ev. : 10. 634
 Closure Error : 0. 124
 Length of Level Run : 58, 992. 040
 Allowable Error : 0. 167
 Units : Feet

Closure is within allowable tolerances

Adjustment proportional to total distance

Pt. #	Unadj. El ev.	Adj. El ev.	Description
J-519	19. 640		NGS BM
TP1	22. 836	22. 835	
TP2	23. 206	23. 204	
TP3	22. 811	22. 808	
TP4	21. 540	21. 536	
TP5	22. 048	22. 043	
TP6	21. 873	21. 867	
TBM1	22. 059	22. 052	
TP7	20. 093	20. 086	
TP8	19. 255	19. 247	
TP9	18. 875	18. 865	
TP10	17. 275	17. 264	
TP11	16. 195	16. 183	
TBM2	15. 628	15. 616	
TP12	15. 690	15. 676	
TP13	16. 255	16. 241	
TP14	15. 774	15. 758	
TP15	17. 448	17. 431	
TP16	18. 231	18. 214	
TP17	19. 925	19. 907	
TBM3	20. 300	20. 280	
TP18	20. 687	20. 666	
TP19	21. 542	21. 520	
TBM4	21. 900	21. 877	
TP20	19. 488	19. 464	
TP21	18. 239	18. 215	
TP22	16. 064	16. 039	
TP23	15. 763	15. 737	
TBM5	15. 662	15. 635	
TBM6	16. 171	16. 143	
TP24	15. 879	15. 850	
TP25	16. 630	16. 600	
TP26	18. 487	18. 456	
TP27	19. 240	19. 208	
TP28	19. 875	19. 842	
TBM7	20. 010	19. 976	
TP29	20. 458	20. 423	
TP30	21. 091	21. 055	
TP31	18. 148	18. 111	
TP32	19. 804	19. 766	
TP33	18. 656	18. 617	
TP34	18. 268	18. 227	
TP35	18. 281	18. 239	
TBM8	17. 433	17. 391	
TP36	16. 250	16. 206	
TP37	15. 436	15. 392	
TP38	14. 930	14. 884	
TP39	14. 720	14. 674	
TP40	14. 005	13. 958	
TP41	14. 054	14. 006	
TP42	16. 027	15. 978	

TP43	16. 964	16. 914
TBM9	18. 128	18. 077
TP44	20. 017	19. 965
TP45	17. 979	17. 926
TBM10	20. 009	19. 955
TP46	18. 881	18. 826
TP47	18. 901	18. 846
TP48	18. 390	18. 334
TP49	18. 500	18. 442
TP50	18. 178	18. 119
TP51	18. 499	18. 439
TP52	18. 248	18. 187
TP53	18. 792	18. 730
TP54	18. 558	18. 495
TP55	18. 265	18. 201
TP56	18. 397	18. 332
TP57	18. 436	18. 371
TP58	16. 438	16. 372
TP59	18. 369	18. 301
HEND-1	18. 980	18. 912
TBM12	19. 854	19. 785
TP60	18. 124	18. 054
TP61	17. 310	17. 240
TP62	17. 891	17. 820
TP63	17. 953	17. 881
TP64	17. 838	17. 764
TP65	19. 005	18. 930
TP66	18. 938	18. 862
TP67	18. 524	18. 447
TP68	18. 500	18. 423
TP69	19. 142	19. 064
TP70	18. 703	18. 623
TP71	18. 832	18. 751
TP72	18. 608	18. 526
TP73	18. 470	18. 388
TP74	17. 822	17. 738
TP75	20. 057	19. 972
TP76	17. 728	17. 642
TP77	17. 175	17. 088
TP78	15. 418	15. 330
TP79	13. 864	13. 775
TP80	16. 572	16. 482
TP81	15. 759	15. 668
TP82	14. 773	14. 681
TP83	15. 630	15. 537
TP84	16. 356	16. 262
TP85	17. 796	17. 701
TP86	18. 450	18. 354
TP87	18. 604	18. 507
TP88	18. 639	18. 541
TP89	19. 705	19. 606
TP90	23. 151	23. 051
TP91	21. 396	21. 295
TP92	20. 952	20. 850
TP93	20. 621	20. 518
TP94	19. 990	19. 886
TP95	19. 903	19. 798
TP96	19. 012	18. 906
TP97	17. 585	17. 478
TP98	15. 959	15. 851
TP99	16. 545	16. 437
TP100	16. 168	16. 058
TP101	15. 470	15. 359
TP102	14. 563	14. 451
TP103	14. 925	14. 812
TP104	15. 335	15. 221
TP105	14. 708	14. 593
TP106	14. 980	14. 864
TBM13	15. 072	14. 955
TP107	14. 537	14. 419

TP108	14. 580	14. 462
TP109	15. 379	15. 259
TP110	15. 432	15. 311
TP111	14. 877	14. 755
TP112	13. 918	13. 795
TP113	13. 547	13. 423
K519	10. 634	10. 510

Closure Report for file D:\Levels Raw\30103-1A.l ev

Job No. : 30102-1A
 Benchmark No. : HEND-1
 Starting BM El ev. : 18.912
 Ending BM El ev. : 19.785
 Unadjusted Ending El ev. : 19.788
 Closure Error : 0.003
 Length of Level Run : 332.200
 Allowable Error : 0.013
 Units : Feet

Closure is within allowable tolerances

Adjustment proportional to total distance

Pt. #	Unadj. El ev.	Adj. El ev.	Description
HEND-1	18.912		
GW1	18.458	18.457	
GW2	21.134	21.132	
TBM12	19.788	19.785	

Closure Report for file D:\Levels Raw\30103-1(29).lev

Job No. : 30102-1
 Benchmark No. : J-519
 Starting BM Elev. : 20.905
 Ending BM Elev. : 11.776
 Unadjusted Ending Elev. : 11.899
 Closure Error : 0.123
 Length of Level Run : 58,992.040
 Allowable Error : 0.167
 Units : Feet

Closure is within allowable tolerances

Adjustment proportional to total distance

Pt. #	Unadj. Elev.	Adj. Elev.	Description
J-519	20.905		NGS_BM
TP1	24.101	24.100	
TP2	24.471	24.469	
TP3	24.076	24.073	
TP4	22.805	22.801	
TP5	23.313	23.308	
TP6	23.138	23.132	
TBM1	23.324	23.317	
TP7	21.358	21.351	
TP8	20.520	20.512	
TP9	20.140	20.130	
TP10	18.540	18.529	
TP11	17.460	17.448	
TBM2	16.893	16.881	
TP12	16.955	16.941	
TP13	17.520	17.506	
TP14	17.039	17.023	
TP15	18.713	18.696	
TP16	19.496	19.479	
TP17	21.190	21.172	
TBM3	21.565	21.545	
TP18	21.952	21.931	
TP19	22.807	22.785	
TBM4	23.165	23.143	
TP20	20.753	20.730	
TP21	19.504	19.480	
TP22	17.329	17.304	
TP23	17.028	17.002	
TBM5	16.927	16.900	
TBM6	17.436	17.408	
TP24	17.144	17.115	
TP25	17.895	17.865	
TP26	19.752	19.721	
TP27	20.505	20.473	
TP28	21.140	21.108	
TBM7	21.275	21.241	
TP29	21.723	21.688	
TP30	22.356	22.320	
TP31	19.413	19.376	
TP32	21.069	21.031	
TP33	19.921	19.882	
TP34	19.533	19.493	
TP35	19.546	19.505	
TBM8	18.698	18.656	
TP36	17.515	17.471	
TP37	16.701	16.657	
TP38	16.195	16.150	
TP39	15.985	15.939	
TP40	15.270	15.224	
TP41	15.319	15.271	
TP42	17.292	17.243	

TP43	18. 229	18. 179
TBM9	19. 393	19. 342
TP44	21. 282	21. 231
TP45	19. 244	19. 192
TBM10	21. 274	21. 221
TP46	20. 146	20. 092
TP47	20. 166	20. 111
TP48	19. 655	19. 599
TP49	19. 765	19. 708
TP50	19. 443	19. 384
TP51	19. 764	19. 704
TP52	19. 513	19. 452
TP53	20. 057	19. 996
TP54	19. 823	19. 761
TP55	19. 530	19. 467
TP56	19. 662	19. 598
TP57	19. 701	19. 636
TP58	17. 703	17. 637
TP59	19. 634	19. 567
HEND-1	20. 245	20. 177
TBM12	21. 119	21. 050
TP60	19. 389	19. 320
TP61	18. 575	18. 505
TP62	19. 156	19. 085
TP63	19. 218	19. 146
TP64	19. 103	19. 029
TP65	20. 270	20. 195
TP66	20. 203	20. 127
TP67	19. 789	19. 713
TP68	19. 765	19. 688
TP69	20. 407	20. 329
TP70	19. 968	19. 889
TP71	20. 097	20. 017
TP72	19. 873	19. 792
TP73	19. 735	19. 653
TP74	19. 087	19. 004
TP75	21. 322	21. 238
TP76	18. 993	18. 908
TP77	18. 440	18. 354
TP78	16. 683	16. 596
TP79	15. 129	15. 041
TP80	17. 837	17. 747
TP81	17. 024	16. 934
TP82	16. 038	15. 947
TP83	16. 895	16. 803
TP84	17. 621	17. 528
TP85	19. 061	18. 967
TP86	19. 715	19. 620
TP87	19. 869	19. 773
TP88	19. 904	19. 807
TP89	20. 970	20. 872
TP90	24. 416	24. 317
TP91	22. 661	22. 561
TP92	22. 217	22. 116
TP93	21. 886	21. 784
TP94	21. 255	21. 152
TP95	21. 168	21. 064
TP96	20. 277	20. 172
TP97	18. 850	18. 744
TP98	17. 224	17. 117
TP99	17. 810	17. 702
TP100	17. 433	17. 324
TP101	16. 735	16. 625
TP102	15. 828	15. 717
TP103	16. 190	16. 078
TP104	16. 600	16. 487
TP105	15. 973	15. 859
TP106	16. 245	16. 130
TBM13	16. 337	16. 221
TP107	15. 802	15. 685

TP108	15. 845	15. 727
TP109	16. 644	16. 525
TP110	16. 697	16. 577
TP111	16. 142	16. 020
TP112	15. 183	15. 061
TP113	14. 812	14. 689
K519	11. 899	11. 776

Closure Report for file D:\Levels Raw\30103-1A(29).lev

Job No. : 30102-1A
 Benchmark No. : HEND-1
 Starting BM Elev. : 20.177
 Ending BM Elev. : 21.050
 Unadjusted Ending Elev. : 21.053
 Closure Error : 0.003
 Length of Level Run : 332.200
 Allowable Error : 0.013
 Units : Feet

Closure is within allowable tolerances

Adjustment proportional to total distance

Pt. #	Unadj. Elev.	Adj. Elev.	Description
HEND-1	20.177		
GW1	19.723	19.722	
GW2	22.399	22.397	
TBM12	21.053	21.050	

Comma delimited point coordinate listing(88).txt

Comma delimited point coordinate listing

Project : 20030103 (Deni Associates, Inc.)

Time 10:04:41 AM 03/07/2003

Coordinate System US State Plane 83/90 Zone Florida East 0901

Project Datum NAD 1983 (Conus)

Vertical Datum Geoid Model GEOID99(conus)

Coordinate Units US survey feet

Height Units US survey feet (NAVD 88)

Point listing

Name, Northing, Easting, Elevation, Feature Code

K519, 886243.024, 513351.650, 10.51, K519

J519, 891865.929, 514136.354, 19.64, J519

Y523, 941775.488, 616383.961, 33.73, Y523

A524, 931216.044, 616451.743, 33.96, A524

200, 882861.9, 494780.2, 18.91, HEND-1

201, 882847.9, 494737.2, 18.46, FTND GW1

202, 882843.1, 494736.8, 21.13, FTND GW2

203, 940006.0, 616278.7, 26.30, BM1

204, 939912.8, 616427.7, 17.49, C-5 LANDSIDE

205, 939622.8, 616258.7, ., CP1

206, 932885.6, 616192.3, 23.13, NIC01

207, 932896.6, 616177.1, 17.78, GLAD-1

208, 940014.6, 615824.4, 22.12, NIC02

Comma delimited point coordinate listing(29).txt

Comma delimited point coordinate listing

Project : 20030103 (Deni Associates, Inc.)

Time 08:04:32 AM 03/19/2003

Coordinate System US State Plane 83/90 Zone Florida East 0901

Project Datum NAD 1983 (Conus)

Vertical Datum Geoid Model GEOID96(conus)

Coordinate Units US survey feet

Height Units US survey feet (NGVD 29)

Based on NGS NGVD 29 adjustment of the CERP vertical network

Point listing

Name, Northing, Easting, Elevation, Feature Code

K519, 886243.024, 513351.650, 11.78, K519

J519, 891865.929, 514136.354, 20.905, J519

Y523, 941775.488, 616383.961, 335.09, Y523

A524, 931216.044, 616451.743, 35.31, A524

200, 882861.9, 494780.2, 20.18, HEND-1

201, 882847.9, 494737.2, 19.72, FTND GW1

202, 882843.1, 494736.8, 22.40, FTND GW2

203, 940006.0, 616278.7, 27.66, BM1

204, 939912.8, 616427.7, 18.85, C-5 LANDSIDE

205, 939622.8, 616258.7, ., CP1

206, 932885.6, 616192.3, 24.48, NIC01

207, 932896.6, 616177.1, 19.13, GLAD-1

208, 940014.6, 615824.4, 23.48, NIC02

Comma delimited point lat-long listing.txt

Comma delimited point lat/long listing

Project : 20030103 (Deni Associates, Inc.)

Time 10:13:50 AM 03/07/2003

Coordinate System US State Plane 83/99 Zone Florida East 0901

Project Datum NAD 1983 (Conus)

Point listing

Name, Latitude, Longitude, Feature Code

K519, 26°46'16.26835"N, 81°26'15.75482"W, K519

J519, 26°47'11.98181"N, 81°26'07.30937"W, J519

Y523, 26°55'28.49146"N, 81°07'19.53841"W, Y523

A524, 26°53'43.91515"N, 81°07'18.67723"W, Y523

200, 26°45'42.110"N, 81°29'40.513"W, HEND-1

201, 26°45'41.967"N, 81°29'40.987"W, FTND GW1

202, 26°45'41.922"N, 81°29'40.991"W, FTND GW2

203, 26°55'10.966"N, 81°07'20.682"W, BM1

204, 26°55'10.044"N, 81°07'19.035"W, C-5 LANDSIDE

205, 26°55'07.171"N, 81°07'20.899"W, CP1

206, 26°54'00.447"N, 81°07'21.561"W, NI C01

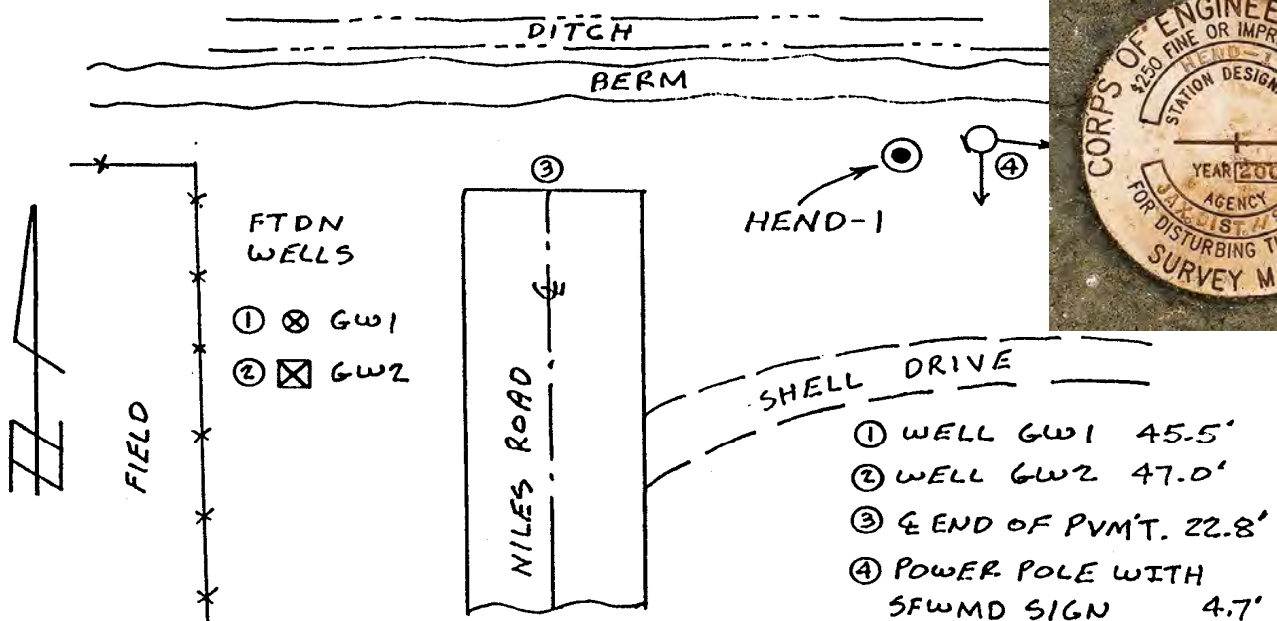
207, 26°54'00.557"N, 81°07'21.728"W, GLAD-1

208, 26°55'11.047"N, 81°07'25.702"W, NI C02



COUNTY: Hendry		PROJECT: Well Sites		DESIGNATION: HEND-1	
SECTION 2		TOWNSHIP 43 SOUTH		RANGE 28 EAST	
GEOGRAPHIC INDEX OF QUAD: Florida					
Established by <u> X </u> Recovered by Deni Associates, Inc.			NAME OF QUADRANGLE: La Belle		
SURVEYOR: Ben R. Homola DATE: 2/06/2003			FIELD BOOK: 516-21 PAGE: 13		
HORIZONTAL DATUM: 83/99 ZONE: EAST					
VERTICAL DATUM: NAVD 88 & NGVD 29 (Based on NGS adjustment of CERP vertical network)					
CONTROL ACCURACY: HORIZONTAL 1 2 (3) VERTICAL 1 2 (3)					
STATE PLANE COORDINATES Feet		X 494780.2	Y 882861.9	EL. = 18.91' (NAVD 88) EL. = 20.18' (NGVD 29)	
LATITUDE: 26°45'42.110" N		LONGITUDE: 81°29'40.513" W			
DESCRIPTION					
To Reach: From the intersection of S.R. 29 and C.R. 78, 0.5 mile north of La Belle; Go west on C.R. 78 for 3.5 miles to North River Road; thence west on North River Road for 0.9 mile to Niles Road; thence north on Niles Road for 0.5 mile to end of road and mark. Mark is a standard C.O.E. brass disk set in top of a class "C" concrete monument flush with the ground. 45.5', 76° magnetic azimuth from FTDN well GW1. 47.0', 69° magnetic azimuth from FTDN well GW2. 22.8', 86° magnetic azimuth from the centerline end of pavement for Niles Road, 4.7', 280° magnetic azimuth from a wood power pole with a SFWMD witness sign. A magnet was set 1-foot west and 0.3' below grade from the mark.					

SKETCH



From the "ngvd29.txt" file provided by NGS for the CERP Geodetic Vertical Control Project.
 Line/Part: L26214 SSN+: mark floated, SSN*: mark constrained, SSN#: mark floated & constrained

The NGS Data Sheet

Mark ID	SSN	PID	Designation	Geopotential	Elevation	Codes
901	1436	AJ7266	J 519	6.2445	6.3719	
902	1440	AJ7267	K 519	3.5176	3.5894	

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

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,      Retrieval Date = NOVEMBER 24, 2015
AJ7266 *****
AJ7266 DESIGNATION - J 519
AJ7266 PID - AJ7266
AJ7266 STATE/COUNTY- FL/GLADES
AJ7266 COUNTRY - US
AJ7266 USGS QUAD - LA BELLE (1979)
AJ7266
AJ7266 *CURRENT SURVEY CONTROL
AJ7266
AJ7266* NAD 83(2011) POSITION- 26 47 11.98124(N) 081 26 07.30811(W) ADJUSTED
AJ7266* NAD 83(2011) ELLIP HT- -18.481 (meters) (06/27/12) ADJUSTED
AJ7266* NAD 83(2011) EPOCH - 2010.00
AJ7266* NAVD 88 ORTHO HEIGHT - 5.985 (meters) 19.64 (feet) ADJUSTED
AJ7266
AJ7266 NAD 83(2011) X - 848,509.712 (meters) COMP
AJ7266 NAD 83(2011) Y - -5,634,025.699 (meters) COMP
AJ7266 NAD 83(2011) Z - 2,857,125.434 (meters) COMP
AJ7266 LAPLACE CORR - 0.29 (seconds) DEFLEC12B
AJ7266 GEOID HEIGHT - -24.465 (meters) GEOID12B
AJ7266 DYNAMIC HEIGHT - 5.976 (meters) 19.61 (feet) COMP
AJ7266 MODELED GRAVITY - 979,096.9 (mgal) NAVD 88
AJ7266
AJ7266 VERT ORDER - FIRST CLASS II
AJ7266
AJ7266 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AJ7266 Standards:
AJ7266 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
AJ7266 Horiz Ellip SD_N SD_E SD_h (unitless)
AJ7266 -----
AJ7266 NETWORK 1.48 1.86 0.63 0.55 0.95 -0.37369756
AJ7266 -----
AJ7266 Click here for local accuracies and other accuracy information.
AJ7266
AJ7266 The horizontal coordinates were established by GPS observations
AJ7266 and adjusted by the National Geodetic Survey in June 2012.
AJ7266
AJ7266 NAD 83(2011) refers to NAD 83 coordinates where the reference
AJ7266 frame has been affixed to the stable North American tectonic plate. See
AJ7266 NA2011 for more information.
AJ7266
AJ7266 The horizontal coordinates are valid at the epoch date displayed above
AJ7266 which is a decimal equivalence of Year/Month/Day.
AJ7266
AJ7266 The orthometric height was determined by differential leveling and
AJ7266 adjusted by the NATIONAL GEODETIC SURVEY
AJ7266 in February 2002.
AJ7266
AJ7266 Significant digits in the geoid height do not necessarily reflect accuracy.
AJ7266 GEOID12B height accuracy estimate available here.
AJ7266
AJ7266 The X, Y, and Z were computed from the position and the ellipsoidal ht.
AJ7266
AJ7266 The Laplace correction was computed from DEFLEC12B derived deflections.
AJ7266
    
```

AJ7266.The ellipsoidal height was determined by GPS observations
 AJ7266.and is referenced to NAD 83.

AJ7266

AJ7266.The dynamic height is computed by dividing the NAVD 88
 AJ7266.geopotential number by the normal gravity value computed on the
 AJ7266.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AJ7266.degrees latitude (g = 980.6199 gals.).

AJ7266

AJ7266.The modeled gravity was interpolated from observed gravity values.

AJ7266

AJ7266. The following values were computed from the NAD 83(2011) position.

AJ7266

AJ7266;		North	East	Units	Scale	Factor	Converg.
AJ7266;SPC FL E	-	271,841.262	156,709.109	MT	0.99996430	-0 11 46.3	
AJ7266;SPC FL E	-	891,865.87	514,136.47	sFT	0.99996430	-0 11 46.3	
AJ7266;UTM 17	-	2,962,880.492	456,723.879	MT	0.99962312	-0 11 46.3	
AJ7266!	-	Elev Factor	x	Scale Factor	=	Combined Factor	
AJ7266!SPC FL E	-	1.00000290	x	0.99996430	=	0.99996720	
AJ7266!UTM 17	-	1.00000290	x	0.99962312	=	0.99962602	

AJ7266

SUPERSEDED SURVEY CONTROL

AJ7266

AJ7266	NAD 83(2007)-	26 47 11.98142(N)	081 26 07.30889(W)	AD(2002.00)	0
AJ7266	ELLIP H (02/10/07)	-18.465 (m)		GP(2002.00)	
AJ7266	NAD 83(1999)-	26 47 11.98181(N)	081 26 07.30937(W)	AD()	1
AJ7266	ELLIP H (12/12/02)	-18.476 (m)		GP()	4 1
AJ7266	NAVD 88 (12/12/02)	5.99 (m)	19.7 (f)	LEVELING	3

AJ7266

AJ7266.Superseded values are not recommended for survey control.

AJ7266

AJ7266.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

AJ7266.[See file dsdata.txt](#) to determine how the superseded data were derived.

AJ7266

AJ7266_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMK5672362880(NAD 83)

AJ7266

AJ7266_MARKER: F = FLANGE-ENCASED ROD
 AJ7266_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
 AJ7266_STAMPING: J 519 2001 CERP

AJ7266_MARK LOGO: NONE

AJ7266_PROJECTION: RECESSED 3 CENTIMETERS

AJ7266_MAGNETIC: O = OTHER; SEE DESCRIPTION

AJ7266_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

AJ7266_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AJ7266+SATELLITE: SATELLITE OBSERVATIONS - January 13, 2011

AJ7266_ROD/PIPE-DEPTH: 16.5 meters

AJ7266

AJ7266	HISTORY	-	Date	Condition	Report By
AJ7266	HISTORY	-	200105	MONUMENTED	FOST
AJ7266	HISTORY	-	20020309	GOOD	MAPTEC
AJ7266	HISTORY	-	20110113	GOOD	NOGUCCO

AJ7266

STATION DESCRIPTION

AJ7266

AJ7266'DESCRIBED BY CHARLEY FOSTER AND ASSOCIATES 2001 (JB)
 AJ7266'THE MONUMENT IS LOCATED 13.75 MILES (22.13 KM) SOUTH OF PALMDALE, FL
 AJ7266'AND 1.9 MILES (3.06 KM) NORTH OF
 AJ7266'LABELLE, FL. IN SECTION 29, TOWNSHIP 42 SOUTH, RANGE 29 EAST.

AJ7266'

AJ7266'OWNERSHIP IS THE FLORIDA DEPARTMENT OF TRANSPORTATION.

AJ7266'

AJ7266'TO REACH THE MONUMENT FROM THE INTERSECTION OF US HIGHWAY 80 AND STATE
 AJ7266'ROAD 29 IN LA BELLE, GO
 AJ7266'NORTH 1.9 MILES (3.06 KM) ON STATE ROAD 29 AND THE MONUMENT IS ON THE
 AJ7266'WEST SIDE (LEFT) OF THE ROAD.

AJ7266'THE MONUMENT IS 12.3 MILES (19.79 KM) SOUTH OF THE JUNCTION OF STATE

AJ7266'ROAD 29 AND US HIGHWAY 27.
AJ7266'
AJ7266'THE MONUMENT IS 72.2 FEET (22.01 M) WEST OF THE CENTERLINE OF STATE
AJ7266'ROAD 29, 52.4 FEET (15.97 M) WEST
AJ7266'OF A UTILITY POLE AND 3.0 FEET (0.91 M) EAST OF A CARSONITE WITNESS
AJ7266'POST. NOTE ACCESS TO THE DATUM
AJ7266'POINT (THE TOP OF A STAINLESS STEEL ROD) IS HAD THROUGH A 5 INCH LOGO
AJ7266'CAP. NOTE A MAGNET WAS
AJ7266'PLACED INSIDE THE PVC PIPE.

AJ7266'

AJ7266

AJ7266 STATION RECOVERY (2002)

AJ7266

AJ7266'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CDP)

AJ7266'RECOVERED AS DESCRIBED

AJ7266'

AJ7266

AJ7266 STATION RECOVERY (2011)

AJ7266

AJ7266'RECOVERY NOTE BY NORTHROP GRUMMON CORPORATION 2011 (MR)

AJ7266'RECOVERED IN GOOD CONDITION.

*** retrieval complete.

Elapsed Time = 00:00:07

From the "ngvd29.txt" file provided by NGS for the CERP Geodetic Vertical Control Project.
 Line/Part: L26214 SSN+: mark floated, SSN*: mark constrained, SSN#: mark floated
 & constrained

The NGS Data Sheet

Mark ID	SSN	PID	Designation	Geopotential	Elevation	Codes
901	1436	AJ7266	J 519	6.2445	6.3719	
902	1440	AJ7267	K 519	3.5176	3.5894	

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

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,      Retrieval Date = NOVEMBER 24, 2015
AJ7267 *****
AJ7267 DESIGNATION - K 519
AJ7267 PID - AJ7267
AJ7267 STATE/COUNTY- FL/HENDRY
AJ7267 COUNTRY - US
AJ7267 USGS QUAD - LA BELLE (1979)
AJ7267
AJ7267 *CURRENT SURVEY CONTROL
AJ7267
AJ7267* NAD 83(2011) POSITION- 26 46 16.26772(N) 081 26 15.75355(W) ADJUSTED
AJ7267* NAD 83(2011) ELLIP HT- -21.260 (meters) (06/27/12) ADJUSTED
AJ7267* NAD 83(2011) EPOCH - 2010.00
AJ7267* NAVD 88 ORTHO HEIGHT - 3.203 (meters) 10.51 (feet) ADJUSTED
AJ7267
AJ7267 NAD 83(2011) X - 848,393.683 (meters) COMP
AJ7267 NAD 83(2011) Y - -5,634,821.944 (meters) COMP
AJ7267 NAD 83(2011) Z - 2,855,593.350 (meters) COMP
AJ7267 LAPLACE CORR - 0.27 (seconds) DEFLEC12B
AJ7267 GEOID HEIGHT - -24.467 (meters) GEOID12B
AJ7267 DYNAMIC HEIGHT - 3.198 (meters) 10.49 (feet) COMP
AJ7267 MODELED GRAVITY - 979,094.9 (mgal) NAVD 88
AJ7267
AJ7267 VERT ORDER - FIRST CLASS II
AJ7267
AJ7267 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AJ7267 Standards:
AJ7267 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
AJ7267 Horiz Ellip SD_N SD_E SD_h (unitless)
AJ7267 -----
AJ7267 NETWORK 2.24 2.76 0.90 0.90 1.41 -0.33076094
AJ7267 -----
AJ7267 Click here for local accuracies and other accuracy information.
AJ7267
AJ7267
AJ7267.The horizontal coordinates were established by GPS observations
AJ7267.and adjusted by the National Geodetic Survey in June 2012.
AJ7267
AJ7267.NAD 83(2011) refers to NAD 83 coordinates where the reference
AJ7267.frame has been affixed to the stable North American tectonic plate. See
AJ7267.NA2011 for more information.
AJ7267
AJ7267.The horizontal coordinates are valid at the epoch date displayed above
AJ7267.which is a decimal equivalence of Year/Month/Day.
AJ7267
AJ7267.The orthometric height was determined by differential leveling and
AJ7267.adjusted by the NATIONAL GEODETIC SURVEY
AJ7267.in February 2002.
AJ7267
AJ7267.Significant digits in the geoid height do not necessarily reflect accuracy.
AJ7267.GEOID12B height accuracy estimate available here.
AJ7267
AJ7267.The X, Y, and Z were computed from the position and the ellipsoidal ht.
AJ7267
AJ7267.The Laplace correction was computed from DEFLEC12B derived deflections.
AJ7267
    
```

AJ7267.The ellipsoidal height was determined by GPS observations
 AJ7267.and is referenced to NAD 83.

AJ7267

AJ7267.The dynamic height is computed by dividing the NAVD 88
 AJ7267.geopotential number by the normal gravity value computed on the
 AJ7267.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AJ7267.degrees latitude (g = 980.6199 gals.).

AJ7267

AJ7267.The modeled gravity was interpolated from observed gravity values.

AJ7267

AJ7267. The following values were computed from the NAD 83(2011) position.

AJ7267

AJ7267;		North	East	Units	Scale	Factor	Converg.
AJ7267;SPC FL E	-	270,127.395	156,469.931	MT	0.99996456	-0 11 49.8	
AJ7267;SPC FL E	-	886,242.96	513,351.77	sFT	0.99996456	-0 11 49.8	
AJ7267;UTM 17	-	2,961,167.210	456,484.783	MT	0.99962338	-0 11 49.8	
AJ7267!	-	Elev Factor	x	Scale Factor	=	Combined Factor	
AJ7267!SPC FL E	-	1.00000334	x	0.99996456	=	0.99996790	
AJ7267!UTM 17	-	1.00000334	x	0.99962338	=	0.99962672	

AJ7267

SUPERSEDED SURVEY CONTROL

AJ7267

AJ7267	NAD 83(2007)-	26 46 16.26795(N)	081 26 15.75437(W)	AD(2002.00)	0
AJ7267	ELLIP H (02/10/07)	-21.246 (m)		GP(2002.00)	
AJ7267	NAD 83(1999)-	26 46 16.26834(N)	081 26 15.75484(W)	AD()	1
AJ7267	ELLIP H (12/12/02)	-21.257 (m)		GP()	4 1
AJ7267	NAVD 88 (12/12/02)	3.20 (m)	10.5 (f)	LEVELING	3

AJ7267

AJ7267.Superseded values are not recommended for survey control.

AJ7267

AJ7267.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

AJ7267.[See file dsdata.txt](#) to determine how the superseded data were derived.

AJ7267

AJ7267_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMK5648461167(NAD 83)

AJ7267

AJ7267_MARKER: DD = SURVEY DISK

AJ7267_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

AJ7267_STAMPING: K 519 2001 CERP

AJ7267_MARK LOGO: USE

AJ7267_PROJECTION: FLUSH

AJ7267_MAGNETIC: O = OTHER; SEE DESCRIPTION

AJ7267_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

AJ7267+STABILITY: SURFACE MOTION

AJ7267_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AJ7267+SATELLITE: SATELLITE OBSERVATIONS - December 01, 2011

AJ7267

AJ7267	HISTORY	- Date	Condition	Report By
AJ7267	HISTORY	- 200105	MONUMENTED	FOST
AJ7267	HISTORY	- 20020309	GOOD	MAPTEC
AJ7267	HISTORY	- 20111201	GOOD	FLDEP

AJ7267

STATION DESCRIPTION

AJ7267

AJ7267'DESCRIBED BY CHARLEY FOSTER AND ASSOCIATES 2001 (JB)

AJ7267'THE MONUMENT IS LOCATED IN LABELLE, FL., NORTH OF THE RIVER AT THE

AJ7267'INTERSECTION OF STATE ROAD 29

AJ7267'AND COUNTY ROAD 78 IN SECTION 32, TOWNSHIP 42 SOUTH, RANGE 29 EAST.

AJ7267'

AJ7267'OWNERSHIP IS THE FLORIDA DEPARTMENT OF TRANSPORTATION.

AJ7267'

AJ7267'TO REACH THE MONUMENT FROM THE INTERSECTION OF US HIGHWAY 80 AND STATE

AJ7267'ROAD 29 IN LA BELLE, GO

AJ7267'NORTH 0.8 MILES (1.29 KM) ON STATE ROAD 29 AND THE MONUMENT IS ON THE

AJ7267'WEST SIDE (LEFT) OF THE ROAD.

AJ7267'THE MONUMENT IS 13.4 MILES (21.57 KM) SOUTH OF THE JUNCTION OF STATE

AJ7267'ROAD 29 AND US HIGHWAY 27.

AJ7267'

AJ7267'THE MONUMENT IS 93.0 FEET (28.35 M) WEST OF THE CENTERLINE OF STATE

AJ7267'ROAD 29, 47.6 FEET (14.51 M) FROM A

AJ7267'RIGHT-OF-WAY MONUMENT, 109.0 FEET (33.22 M) NORTH OF THE CENTERLINE OF

AJ7267'COUNTY ROAD 78 AND 6.0 FEET

AJ7267'(1.83 M) FROM THE WITNESS POST AND CHAINLINK FENCELINE. NOTE A MAGNET

AJ7267'WAS BURIED NEARBY AT AN

AJ7267'UNSPECIFIED POSITION.

AJ7267'

AJ7267'

AJ7267'

AJ7267'

AJ7267'

AJ7267'

AJ7267'

AJ7267'

AJ7267

AJ7267 STATION RECOVERY (2002)

AJ7267

AJ7267'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CDP)

AJ7267'RECOVERED AS DESCRIBED

AJ7267'

AJ7267

AJ7267 STATION RECOVERY (2011)

AJ7267

AJ7267'RECOVERY NOTE BY FL DEPT OF ENV PRO 2011 (BPJ)

AJ7267'RECOVERED AS DESCRIBED.

*** retrieval complete.

Elapsed Time = 00:00:02