

SURVEYOR'S REPORT

INTRODUCTION

Weidener Surveying & Mapping, P.A. (WSM), LB4207, operating under the authority of the **South Florida Water Management District (the "District")** as a consultant to the District by Purchase Order No. PC P502140 was tasked with the execution of this Specific Purpose Survey in support of the Biscayne Bay Coastal Wetlands Well Sites. The purpose of this survey was to provide horizontal and vertical location at the well sites. **THIS IS NOT A BOUNDARY SURVEY.** This report was revised on 24 August 2005 and supercedes all others of a prior date.



PROJECT LOCATION

The project area is located in southern Miami-Dade County, Florida from the Old Burger King Headquarters site, south of the Deering Estate down the northern reaches of the Model Land Basin. The project sites may be accessed from Old Cutler Road, the Mowry Canal Road and the L-31E Levee Road.

PROJECT APPROACH & EXECUTION

Purchase Order was issued on 24 June 2005 from the District. This was a period of heavy rain in Miami-Dade County which delayed the beginning on work on the project. After some site reconnaissance, WSM recovered sufficient horizontal and vertical control points in the project vicinity. All control meets or exceeds the National Geodetic Survey (NGS) standards for Third Order accuracy and procedural methodology

and complies with engineering manuals as specified in the Statement of Work issued by the District for this project.

The northern project area contained well sites BBCWMW1A, BBCWMW7A, BBCWMW7B, BBCWMW8A and BBCWMW8B. The southern project area contained well sites BBCWMW2A, BBCWMW3A, BBCWMW3B, BBCWMW4A, BBCWMW5A, BBCWMW6A, BBCWMW6B, BBCWMW9A, BBCWMW9B, BBCWMW10A and BBCWMW10B.

Horizontal location of the wells was achieved through the use of RTK (Real Time Kinematic) GPS (Global Positioning Satellite) Surveying. In the northern area, the horizontal control station used was "TRAV 2" that was from another WSM/SFWMD project at the Deering Estate as part of work for the Deering Flow-way (WSM Project No. 1804-C). In the southern area, the horizontal control station used was National Geodetic Survey (NGS) control point "H098".

Elevations at the wells sites were determined by differential level runs in a closed loop NGS control points. Top of well casing and ground elevations were measured. Elevations at BBCWMW8A, BBCWMW8B, BBCWMW10A and BBCWMW10B were measured by RTK GPS. Those 2 wells are located off-shore in Biscayne Bay and cannot have differential levels run to them. All field work was completed on 16 August 2005.

Pictures were taken of the wells and are included in the project's deliverables package in JPG format or in Microsoft Power Point presentation format.

HORIZONTAL and VERTICAL CONTROL

Horizontal control is based on the State Plane Coordinate System, Florida East Zone, North American Datum of 1983. A handheld GPS coordinates were provided by the District to assist in navigating to the wells. Many of these coordinates were erroneous.

Vertical control is based on the North American Vertical Datum of 1988. All vertical control used was 3rd Order. Closed level runs were used with all precision meeting or exceeding third order standards. The offset to convert NAVD 88 elevations to NGVD 29 varies throughout the project area. No benchmarks were set.

ISSUES AND PROBLEMS

The descriptions and coordinates provided were sometimes inadequate to find the sites. Numerous attempts were needed to locate some of these points.

5.59' NGVD29 (Deep)
5.77' (NGVD29) Shallow
Written at the well

WELL ELEVATIONS

Designation	Latitude	Longitude	Northing ¹ (Y)	Easting ¹ (X)	Casing Elev 88 ²	Casing Elev 29 ²	Ground Elev 88 ³	Ground Elev 29 ³
BBCWMW1A	25° 40' 35.0"	80° 19' 23.7"	488,652	879,056	3.91'	5.43'	4.1'	5.6'
BBCWMW2A	25° 30' 15.0"	80° 20' 51.4"	426,012	871,342	0.94'	2.46'	0.7'	2.2
GW2 BBCWMW3A	25° 29' 06.9"	80° 22' 46.5"	419,086	860,821	5.60'	7.12'	2.6'	4.1'
GW1 BBCWMW3B	25° 29' 06.9"	80° 22' 46.5"	419,086	860,825	5.56'	7.08'	2.6'	4.1'
BBCWMW4A	25° 27' 20.5"	80° 22' 02.7"	408,359	864,892	3.29'	4.82'	1.3'	2.8'
BBCWMW5A	25° 26' 26.7"	80° 22' 46.7"	402,910	860,886	4.92'	6.45'	1.3'	2.8'
BBCWMW6A	25° 25' 47.4"	80° 26' 01.0"	398,870	843,088	3.71'	5.24'	1.4'	2.9'
BBCWMW6B	25° 25' 47.5"	80° 26' 00.9"	398,871	843,098	3.85'	5.38'	1.5'	3.1'
GW2 BBCWMW7A	25° 36' 05.4"	80° 18' 34.2"	461,451	883,721	4.34'	5.86'	4.6'	6.1'
GW1 BBCWMW7B	25° 36' 05.4"	80° 18' 34.2"	461,458	883,727	4.41'	5.93'	4.6'	6.1'
BBCWMW8A	25° 36' 04.4"	80° 18' 20.8"	461,356	884,953	6.26'	7.79'	-5.1	-3.5'
BBCWMW8B	25° 36' 04.5"	80° 18' 20.8"	461,364	884,955	6.04'	7.57'	-5.1	-3.5'
BBCWMW9A	25° 28' 21.2"	80° 20' 48.7"	414,526	871,638	2.35'	3.87'	2.5'	4.0'
BBCWMW9B	25° 28' 21.1"	80° 20' 48.7"	414,518	871,638	2.31	3.83'	2.5'	4.0'
BBCWMW10A	25° 28' 19.7"	80° 19' 55.6"	414,393	876,509	7.25'	9.12'	N/A	N/A
BBCWMW10B	25° 28' 19.8"	80° 19' 55.6"	414,402	876,511	6.40'	8.27'	N/A	N/A

¹ State Plane Coordinate System, Florida East Zone, North American Datum of 1983.

² North American Vertical Datum of 1988 (NAVD 88).

³ National Geodetic Vertical datum of 1929 (NGVD 29).

GPS Reports not available for
Well BBCW8A & B and
Well BBCW10A & B

Values maybe reversed
field book does not
match adjustment sheet
Note these values do not
match what's being used
at the site
3.95 (29) Deep
3.92 (29) Shallow

QA/QC

The project's progress was closely monitored throughout the period of work.

PROJECT DELIVERABLES

As specified and in consideration of the project's Statement of Work issued, the following items were generated by WSM as deliverables (in hardcopy and digital format on CD-ROM) to the District: (1) This Surveyor's Report (in PDF also) (2) Computation file with vertical extracts; (3) Copy of Field Book in digital form (in PDF); (4) Metadata file using Corpsmet95.

CERTIFICATION

(1) This survey meets all applicable requirements of the Florida Minimum Technical Standards as contained in Chapter 61G17-6 FAC. (2) This report is not valid without the signature and the original raised seal of the Florida Surveyor and Mapper in responsible charge. (3) Additions or deletions to this data by anyone other than the signing party are prohibited without written consent of the signing party.

Surveyor and Mapper in Responsible Charge:

Jorge Fernandez, II
Florida Professional Land Surveyor
License No. 5103

For the Firm of:

Weidener Surveying & Mapping, P.A. (LB 4207)
10418 NW 31 Terrace
Miami, Florida 33172

Signed: _____

SEAL

Date: _____

BBCW1

BBCWMW1A



**Weidener Surveying & Mapping, P.A.
Date of Photo: July 21, 2005
View: Geotechnical Well**

A	B	C	D
1			
2			
3	Registration Information - BBCW1 Deactivation		
4	Today's Date	12/13/2010	
5	Site Name:	BBCW1	
6	Activity	Deactivation	
7	Effective Date:	12/13/2010	
8	Start Date of data (if different from effective date):		
9	Customer		
10	Name:	Matthew Morrison	
11	Business Area (Division):	7630	
12	Agency:	760	
13	Internal Order	P12827001410	
14	Fund	410000	
15	Legal Mandate:	No Known Mandate	
16	Project Manager:		
17	Name:	Lee Hennick	
18	Division:	5726	
19	Agency:	570	
20	Project Name:		
21	Contract #:		
22			
23	Common Name	BBCW1 - Biscayne Bay Well Monitoring	36
24	PM Notes:	From: Shaffer, John Sent: Thursday, September 30, 2010 10:41 AM To: Krupa, Steven; Kwiatkowski, Peter; Janzen, John; Merkal, Maura; Ritchie, Garnett; Hunt, Melody Cc: Rudnick, David; Gonzalez, Eric; Burns, Scott; Wright, Michael; Rawlik, Peter; Morrison, Matthew; Verrastro, Robert Subject: So Dade Monitoring Well Support for FY 2011	1627
25			
26	Recorder Location/Purpose:	Stand-Alone Recorder (Non-Flow Site)	
27	Type of Recorder:	CR-10	
28	Array ID Configuration Table attached	NO	
29	If water control structure, select:		
30	Travel & Access		
31	Transportation		
32	Lock Type		
33	Combination		
34	Directions		
35	Address		0
36	Survey Information		
37	Benchmark Elevation		
38	Date		
39	Stamp		
40	Agency		
41	Type		
42	Benchmark Datum		
43	Benchmark Location/Description		0
44	Communications Information		
45	Communication System	Loggernet	
46	Communication Type	R.F. (V.H.F. Radio)	
47	R.F. Code / Modem Address	65	
48	Phone Number		
49	Tower	HMST-T	
50	R.F. Access Point		
51	RTU Address		
52	Loggernet Server	LOG4	
53	IP Address	141.232.41.37	
54	Gateway1		
55	Gateway2		
56	Gateway3		
57	Gateway4		



BBC W 1
REF ELEV. 7.52 FT
NAVD 29

 **B-Line** Systems, Inc.®
TYPE 4X
UNDERWRITERS
LABORATORIES
INC.®
LISTED
INDUSTRIAL CONTROL
PANEL ENCLOSURE
ISSUE NO. A-1128
FOR USE WITH UL
LISTED HUBS ONLY
77904 A

 **B-Line** Systems, Inc.®
INDUSTRIAL CONTROL EQUIPMENT ENCLOSURE
C.S.A. ENCLOSURE TYPE 4X
LR 78446
SERIES NO. AW
TO MEET C.S.A. AND U.L. GROUNDING
REQUIREMENTS USE GROUNDING KIT
CIRCLE AW CATALOG NO. 6182
ENCLOSURE OPENINGS ARE TO BE
FILLED BY EQUIPMENT MARKED FOR
USE IN THE SAME ENVIRONMENT
TYPE AS THE ENCLOSURE. 25584 9





MONTGOMERY WELLS





BBCW2

~~**BBCWMW2A**~~



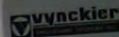
**Weidener Surveying & Mapping, P.A.
Date of Photo: July 21, 2005
View: Geotechnical Well**



CAUTION
HUBS BETWEEN CONDUIT CONNECTIONS IS NOT AUTOMATIC
AND MUST BE PROVIDED AS A PART OF THE INSTALLATION
SEE INSTALLATION INSTRUCTIONS

BBCW 2
REF ELEV

2.45 FT (NAVD 29)



Vynckier Enclosure Systems, Inc.
271 McCarty Drive
Houston, TX 77023
(713) 374-7850 Tel
www.enclosureonline.com

Cat. No. VJ1412HWPL2



INDUSTRIAL CONTROL PANEL ENCLOSURE
ISSUE NO. A-2290

Enclosure Type 3, 3R, 4, 4X, 12, 13

Type 3, 3R, 3S if fitted with drain/ventilator
Si pourvu d'un orifice d'écoulement/aérateur 3, 3R, 3S

Use only hubs of a suitable size which are
UL/CSA approved for watertight use.

CE EN50298

CAUTION
Bonding between conduit connections is not
automatic and must be provided as part of the
installation. See installation instructions.



For use with industrial
control equipment only
CSA Enclosure Type 3, 3R, 4, 4X, 12, 13

ATTENTION

La connexion entre conduits n'est pas
automatique et doit être assurée lors de
l'installation. Voir instructions d'installation.

U5185



ELEV. 2.45 FT



HYDRANT

BBCW3 GW2

~~**BBCWMW3A**~~



**Weidener Surveying & Mapping, P.A.
Date of Photo: July 21, 2005
View: Geotechnical Well**





SHALLOW
W/TA #1 CASE





7.08

SHALLOW

GW1



88C03
7/28/04
USA
10/2/04

Handwritten notes in red ink:
10/2/04
88C03
88C03



MODEL PS-12400 NB
12 Volt 40.0 Amp. Hr.

Power-Sonic Corporation
www.power-sonic.com



249 2930

7.12 DEEP GW2

WIRE FLANGE
MADE IN U.S.A.

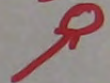
DEEP GW2 7.12

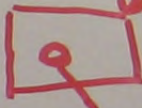
DEEP GW2

SECURE FLANGE
MADE IN U.S.A.





1000

BBCW3
9/28/06
HSA
DSH/RD

WELL 1
SHALLOW

RP = 7.08'

WELL 2
DEEP

RP = 7.12'

▲ DANGER/POISON

 SHIELD EYES EXPLOSIVE GASES CAN CAUSE BLINDNESS OR INJURY	 NO • SPARKS • FLAMES • SMOKING	 SULFURIC ACID CAN CAUSE BLINDNESS OR SEVERE BURNS	 FLUSH EYES IMMEDIATELY WITH WATER GET MEDICAL HELP FAST
---	--	---	---

KEEP OUT OF THE REACH OF CHILDREN. DO NOT OPEN

BBCW3 GW1

~~**BBCWMW3B**~~



**Weidener Surveying & Mapping, P.A.
Date of Photo: July 21, 2005
View: Geotechnical Well**

BBCW4

~~**BBCWMW4A**~~



**Weidener Surveying & Mapping, P.A.
Date of Photo: July 21, 2005
View: Geotechnical Well**



1103348

TOP OF 2" WELL

REF ELVA. 4.82

NADV 29

BBCW4

ATTENTION
DO NOT REMOVE THIS LABEL AS IT CONTAINS
IMPORTANT INFORMATION





BBCW5

~~BBCWMW5A~~



**Weidener Surveying & Mapping, P.A.
Date of Photo: July 21, 2005
View: Geotechnical Well**

REGISTRATION WORKSHEET - BBCW5 Inactivation

Site Name: **BBCW5** Today's Date: **4/7/2015** Type Recorder: **CR-10**
 Activity: **Inactivation** Effective Date: **2/27/2015** Start Date of Data :
 Customer: **Garnett Ritchie** Division: **5833** Agency: **580** Proj Activity Code:
 Project Manager: **Lee Hennick** Division: **5839** Agency: **580** Contract #:
 Project Fund
 Internal Order
 Project name: **BBCW MONITORING WELL SIT** Legal Mandate:

Short Common Name / Description: BBCW5 Biscayne Bay Well Monitoring

Proj. Mgr. Notes: Site vandalized with stolen equipment. Unable to reactivate site without increased protection for sites equipment. SM is working with District Security on possible methods of added protection. No estimated completion date at this time.

Site Directions:

Site Address (if any):

Transportation: **Std Vehicle** Lock type or combination: **Combination Lock number** # **6745**

Recorder Location/Purpose: **Stand-Alone Recorder (Non-Flow Site)** Structure Type:

Array ID Configuration table attached **YES**

SURVEY INFORMATION

B.M. Elevation: Date: Stamp:
 Agency: Type: Datum:

Benchmark Location/Description:

COMMUNICATIONS INFORMATION

Communications System: **Loggernet** Loggernet Server: **LOG2** Loggernet IP Address: **141.232.41.20**

Tower: **HMST-T** Communication Type: **R.F. (V.H.F. Radio)** R.F. Code/Modem Address: **69** R.F. Access Point:
 Phone Number:
 RTU Address: Gateways:

WELL INFORMATION

Sensor	Customer Ref	Ref Elev	Elev Date	Top of Well	Bottom of Well	Ground/ Land Elev	Depth of Well	Lat	Long	X-Coord	Y-Coord	Sec	Tw	Rng	Qu	Basin	Cty
GW1	BBCW4	4.82	8/16/2005	4.82	-31.98	2.8	36.8	25 27 20.513	-80 22 2.683	864890.62197	408363.934116	19	57	40	1203	NORTH CANAL	Miami-Dade

Sensor	Reference Elevation Location	Ground Water Sensor Location
GW1	ATOP OF 2" PLASTIC COOLAR THAT HOLDS THE SS RING	LOCATED @ ELEVATION OF -5.15 FT (9.97 FT BELOW MEASURING POINT)

ADDITIONAL GIS INFORMATION

Item/Parameter	Description/Notes	Lat	Long	X-Coord	Y-Coord	Sec	Tw	Rng	Qu	Basin	Cty
CR-10		25 27 20.520	-80 22 2.594	864897.067260	408364.911557	19	57	40	1203	NORTH CANAL	Miami-Dade



20796170

6.45

NADV 29

BBCW5

ATTENTION
LA COMPAGNIE DES TELECOMUNICATIONS
DU QUÉBEC NE SAUVAUARDERA PAS LES
DONNÉES DE VOS ÉQUIPEMENTS





6.4.05
TOP OF WELLY



BBCW6

~~**BBCWMW6A**~~



**Weidener Surveying & Mapping, P.A.
Date of Photo: August 25, 2005
View: Geotechnical Well**

BBCW6

~~BBCWMW6B~~



**Weidener Surveying & Mapping, P.A.
Date of Photo: August 25, 2005
View: Geotechnical Well**



BBCW6

ICR10

NAVD 29

DEEP \rightarrow
5.59'

\leftarrow SHALLOW
5.77'



Sealed Enclosure
This enclosure is designed to protect the equipment inside from environmental conditions. It is not intended for use in areas with high humidity or where condensation is likely to form. For more information, please contact the manufacturer.

EM. No. A4011000SLP
© 2000
Manufactured by: Emerson Electric Co.
1000 W. Madison St., Quincy, IL 62401
EMERSON ELECTRIC CO.
Product Number: 93



Link.com by
[Barcode]

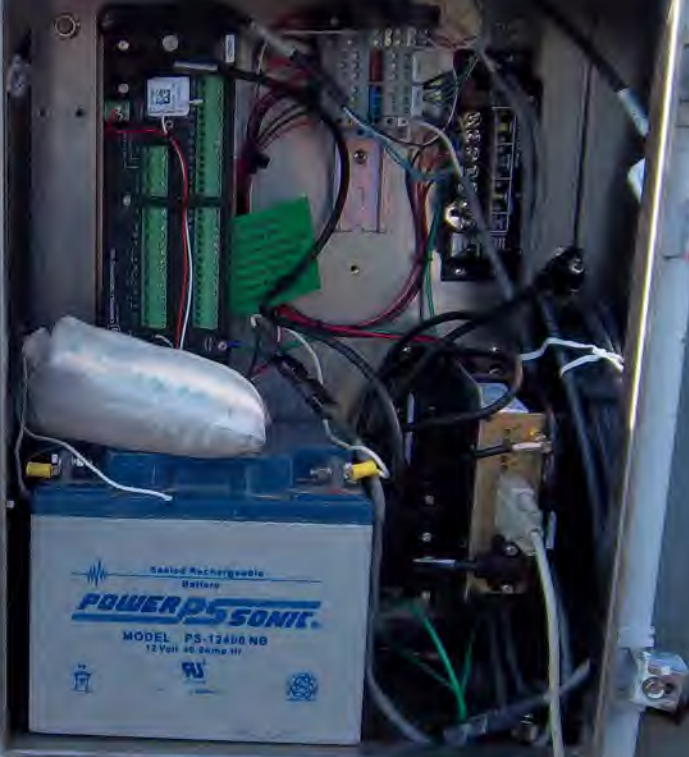
BBCWG

#2
DEEP →
5.59'

ICED #1
SHALLOW
5.724

NAVD 29

QR CODE	QR CODE	31
QR CODE	QR CODE	32



BBCW7 GW1

~~BBCW7B~~



**Weidener Surveying & Mapping, P.A.
Date of Photo: July 21, 2005
View: Well**

BBCW7 GW2

~~BBCWMW7A~~



**Weidener Surveying & Mapping, P.A.
Date of Photo: July 21, 2005
View: Geotechnical Well**



BRAW 7

SW1 - SHALLOW - 5.93 FT

SW2 - DEEP - 5.86 FT





	A	B	C	D
1				
2				
3	Registration Information - BBCW7 Deactivator			
4	Today's Date		12/13/2010	
5	Site Name:		BBCW7	
6	Activity		Deactivation	
7	Effective Date:		12/9/2010	
8	Start Date of data (if different from effective date):			
9	Customer			
10	Name:		Matthew Morrison	
11	Business Area (Division):		7630	
12	Agency:		760	
13	Internal Order		P12827001410	
14	Fund		410000	
15	Legal Mandate:		Comp Everglades Restoration Plan	
16	Project Manager:			
17	Name:		Lee Hennick	
18	Division:		5726	
19	Agency:		570	
20	Project Name:			
21	Contract #:			
22				
23	Common Name		BBCW7 - Biscayne Bay Well Monitoring	36
24	PM Notes:		From: Shaffer, John Sent: Thursday, September 30, 2010 10:41 AM To: Krupa, Steven; Kwiatkowski, Peter; Janzen, John; Merkal, Maura; Ritchie, Garnett; Hunt, Melody Cc: Rudnick, David; Gonzalez, Eric; Burns, Scott; Wright, Michael; Rawlik, Peter; Morrison, Matthew; Verrastro, Robert Subject: So Dade Monitoring Well Support for FY 2011	1627
25				
26	Recorder Location/Purpose:		Stand-Alone Recorder (Non-Flow Site)	
27	Type of Recorder:		CR-10	
28	Array ID Configuration Table attached		NO	
29	If water control structure, select:			
30	Travel & Access			
31	Transportation			
32	Lock Type			
33	Combination			
34	Directions			
35	Address			0
36	Survey Information			
37	Benchmark Elevation			
38	Date			
39	Stamp			
40	Agency			
41	Type			
42	Benchmark Datum			
43	Benchmark Location/Description			0
44	Communications Information			
45	Communication System		Loggernet	
46	Communication Type		R.F. (V.H.F. Radio)	
47	R.F. Code / Modem Address		71	
48	Phone Number			
49	Tower		HMST-T	
50	R.F. Access Point			
51	RTU Address			
52	Loggernet Server		LOG4	
53	IP Address		141.232.41.37	
54	Gateway1			
55	Gateway2			
56	Gateway3			
57	Gateway4			



BBCWMW8A & BBCWMW8B



**South Florida Water Management District supplied
Date of Photo: August 1, 2005
View: Geotechnical Well**

BBCWMW8A & BBCWMW8B



South Florida Water Management District supplied
Date of Photo: August 1, 2005
View: Geotechnical Well

BBCW9

~~BBCWMW9A~~



**Weidener Surveying & Mapping, P.A.
Date of Photo: July 21, 2005
View: Geotechnical Well**

BBCW9

~~BBCWMW9B~~



**Weidener Surveying & Mapping, P.A.
Date of Photo: July 21, 2005
View: Geotechnical Well**



GW 2 R.P. 3.95

GW 2 I.R.P. 3.92

W 2 KPS 500 SIM 603334
Asset E44110

MSS SIM 043946
Asset E44100

W 1 MSS SIM 043956
E44093





SHALLOW

GW 1

ELEV 3.92 FT

20080602



GW2 DEEP

ELEV 3.95



BBCWMW10A & BBCWMW10B



South Florida Water Management District supplied
Date of Photo: August 1, 2005
View: Geotechnical Well

ET

1/15

DAVID F
TRACY B
TODD P

7-15-05

LEVEL RUN TO BBC WMW/58

M631-3
TASK 9

4.9 NAVD88
VERTCON

SEG = 1834 B

STA	+	Δ	-	ELEV	BEAM
BM				4.900	H-111
	4.932	9.832			
			4.026		
B-TP-1				5.806 ✓	
	4.043	9.849			
			3.870		
B-TP-2				5.979 ✓	
	3.377	9.856			
			3.397		
B-TP-3				5.959 ✓	
	4.157	10.116			
			3.965		
B-TP-4				6.151 ✓	
	4.190	10.341			
			4.343		
B-TP-5				5.993 ✓	
	4.297	10.295			
			3.095		
BM.				7.20	V.314
			4.164		
B-TP-6				6.131	

NOTE: TURNING PTS 1-20 & 33-47
ARE PL NAILS IN N. E/P OF
SW 344 ST OPP. THE PPS THAT
ARE ON THE S. SIDE OF SW 344 ST.
BETWEEN SW 137 AVE & SW 117 AVE
USED THE SAME NAILS FOR
TPS 11-20 & 33-47 (SEE PGS 7-10)

TURNING POINTS 21-26 & 27-32
ARE SHOT ON THE SAME NAILS.
(SEE PGS 6-8) TPS ARE ON
ROCK RD SW 117 AVE S. OF SW 344 ST
AND ARE GO-D SPIKES

LAND P
TRAIL E
TOPS D

7-18-05

LEVEL RUN TO BBC WMW 5A

M681-4
TASK 9

STA	+	π	-	ELEV	DESC	SEG 1834 B
B-TP-6	3.774	9.905		6.131		
			3.749			
B-TP-7	3.349	10.005		6.156 ✓		
			4.187			
B-TP-8	3.647	9.465		5.818 ✓		
			4.255			
B-TP-9	4.186	9.396		5.210 ✓		
			4.020			
B-TP-10	3.996	9.372		5.376 ✓		
			3.964			
B-TP-11	3.533	8.996		5.408 ✓		
			3.491			
B-TP-12	3.538	9.043		5.505 ✓		
			3.727			
B-TP-13				5.316 ✓		

DAVID F
TRACE 2
TODD D

7-15-05

LEVEL RUN TO BBLWMW5A

M031-5
TASK-9

STA	+	π	-	ELEV	DESC	SEG 1334 B
B-TP-13				5.316		
	3.334	9.150				
			3.764			
B-TP-14				5.386 ✓		
	3.797	9.183				
			3.919			
B-TP-15				5.264 ✓		
	3.931	9.245				
			3.931			
B-TP-16				5.314 ✓		
	3.685	8.999				
			4.002			
B-TP-17				4.997 ✓		
	3.846	8.843				
			4.031			
B-TP-18				4.812 ✓		
	4.135	8.947				
			3.824			
B-TP-19				5.123 ✓		
	3.991	9.114				
			4.042			
B-TP-20				5.072 ✓		

DAVID F
TRACY B
TODD D

7-15-05

LEVEL RUN TO BBCW/MW 5A

M681-6
TASK 9

STA	+	π	-	ELEV	DESC.	SEG 1834 B
B-TP-20	4.206	9.278		5.072		
			7.267			
B-TP-21	5.388	7.399		2.011 ✓		
			4.565			
B-TP-22	4.540	7.374		2.834 ✓		
			3.933			
B-TP-23	4.264	7.655		3.391 ✓		
			4.533			
B-TP-24	4.446	7.568		3.122 ✓		
			5.536			
B-TP-25	4.954	6.936		2.032 ✓		
			4.726			
B-TP-26				2.260 ✓		

DATE F
TODD E
TRAN E

7-15-05

LEVEL RUN TO BBCWMW5A

M031-7
TASK 7

STA
B-TP-26

5.533

7.798

1.506

ELEV
2.260

DESC

SEG 1834 B

BBCWMW5A

1.746

8.038

2.136

6.292 / N. SIDE OF TOP OF 0.50" PVC OUTER CASING OF MONITORING WELL

BBCWMW5A

1.964

7.866

5.604

5.902 / N. SIDE OF TOP OF 2" PVC MONITORING WELL INSIDE OF OUTER CASING

B-TP-27

4.920

7.182

5.152

2.262 ✓

(B-TP-26) 0.002 HIGH

4.92' NAVD88 on Well Elevation Chart

B-TP-28

5.733

7.763

4.644

2.030 ✓

(B-TP-25) 0.002 LOW

B-TP-29

4.823

7.942

4.556

3.119 ✓

(B-TP-24) 0.003 LOW

B-TP-30

4.390

7.776

4.944

3.336 ✓

(B-TP-23) 0.005 LOW

B-TP-31

2.832 ✓

(B-TP-22) 0.002 LOW

DAVID F
TRACE 2
TODD C

7-15-05

LEVEL RUN TO BCCWMW5A

M631-8

TASK 9

SEG-1834-B

ST4	+	π	-	ELEV	DEPT
B-TP-31	4.878	7.710	5.705	2.832	(B-TP-21) 0.006 LOW
B-TP-32	7.247	9.252	4.181	2.005 ✓	(B-TP-20) 0.001 LOW
B-TP-33	4.668	9.739	4.617	5.071 ✓	(B-TP-19) 0.001 LOW
B-TP-34	4.335	9.457	4.651	5.122 ✓	(B-TP-18) 0.006 LOW
B-TP-35	4.282	9.683	4.704	4.806 ✓	(B-TP-17) 0.013 LOW
B-TP-36	4.682	9.666	4.369	4.984 ✓	(B-TP-16) 0.017 LOW
B-TP-37	4.418	9.715	4.473	5.297 ✓	(B-TP-15) 0.022 LOW
B-TP-38				5.242 ✓	

DAVID F
TRACY B
TODD P

7-15-05

LEVEL RUN TO BCCWIMW5A

M081-9
TASK 9

STA	+	π	-	ELEV	DELT	SEG-1834-B
B-TP-38				5.242		
	4.643	9.890				
			4.524			
B-TP-39				5.366 ✓		(B-TP-14) 0.002 LOW
	4.429	9.795				
			4.495			
B-TP-40				5.300 ✓		(B-TP-13) 0.016 LOW
	4.563	9.863				
			4.376			
B-TP-41				5.487 ✓		(B-TP-12) 0.018 LOW
	4.302	9.789				
			4.410			
B-TP-42				5.379 ✓		(B-TP-11) 0.029 LOW
	4.486	9.865				
			4.519			
B-TP-43				5.346 ✓		(B-TP-10) 0.030 LOW
	4.516	9.856				
			4.679			
B-TP-44				5.177 ✓		(B-TP-9) 0.033 LOW
	4.910	10.037				
			4.304			
B-TP 45				5.783 ✓		(B-TP-8) 0.035 LOW

PAGE 5
TRACE 3
TODD S

7-15-08

LEVEL RUN TO BBC W M W 5A

M631-10
TASK 2

STA	+	π	-	ELEV	DESC	SEG-1834-B
B-TP-45	4.851	10.634		5.783		
			4.518			
B-TP-46	4.462	10.578		6.116✓		(B-TP-7) 0.040 LOW
			4.489			
B-TP-47	4.223	10.312		6.089✓		(B-TP-6) 0.042 LOW
			3.154			
BM				7.158✓	V314	0.012 LOW

NGS V314 (AC1165)
6.1745283333' (1.882m) NAVD88
7.703396666' (2.348m) NGVD29

LEVEL
STATION
MARK

7-13-05

LEVEL RUN TO BBCWMW1A
SEG = 1334-D

M631-11
TASK 5

STA	+	-	ELEV	DESC
NAIL-1	5.378	105.378	100'	RANDOM
		6.122		
NAIL-2	6.231	105.487	99.256	RANDOM
		5.490		
NAIL-1			99.997	CLOSED
BM	7.234	10.952	3.663	TP # 35
		5.335		
TP-1	5.032	10.649	5.617	NL
		4.981		
TP-2	4.180	9.348	5.663	NL
		5.053		
TP-3	5.537	10.332	4.795	NL
		5.404		
TP-4			4.928	NL

PT FOR PEG TEST

PT FOR PEG TEST

5.002 LOW

PEG TEST

FROM SAM HALLS LEVEL RUN DOWN SW ST AVE (SEE FORM 632)

DAVID F.
JOSE H.
NICK L.

7-18-05

LEVEL RUN TO BBCWANAIA

SEG = 1374-D

M681-12
TASK 5

STA	+	π	-	ELEV	DESC
TP-4				4.928	
	5.311	10.239			
			4.986		
TP-5				5.253	NL
	6.432	11.685			
			5.598		
TP-6				6.087	NL
	5.675	11.762			
			5.657		
TP-7				6.105	NL
	3.845	9.950			
			6.315		
TP-8				3.635	NL
	4.532	8.167			
			5.074		
TP-9				3.093	NL
	3.825	6.918			
			3.856		
TP-10				3.062	NL
	4.465	7.527			
			3.970		
TP-11				3.851	NL

DAVID F
JOSE H
NICK L

7-13-05

LEVEL RUN TO BBCWMMWIA

M631-13
TASK 5

SEG=1834-D

STP	*	π	-	ELEV	DEPT	
TP-11				3.551		
	5.321	8.372				
			5.305			
TP-12				3.567	NL	ADJ TO BBCWMMWIA
	5.519	9.086				
			5.534			
TP-13				3.552	NL	(TP-11) 0.001 HIGH
	4.148	7.700				
			4.636			
TP-14				3.064	NL	(TP-12) 0.002 HIGH
	3.799	6.863				
			3.767			
TP-15				3.096	NL	(TP-9) 0.003 HIGH
	5.035	8.131				
			4.492			
TP-16				3.639	NL	(TP-8) 0.009 HIGH
	6.716	10.335				
			4.249			
TP-17				6.106	NL	(TP-7) 0.001 HIGH
	5.249	11.385				
			5.267			
TP-18				6.083	NL	(TP-6) 0.001 HIGH

DAVIS #
JOSE H
HICK L

7-18-05

LEVEL RUN TO BBC WMW 1A

513

M681-14
TASK-5

SEG = 1834-D

STA	+	π	-	ELEV	DESC
TP-18				6.088	
	5.036	11.124			
			5.870		
TP-19				5.254	(TP-5) 0.001 HIGH
	4.873	10.127			
			5.197		
TP-20				4.930	(TP-4) 0.002 HIGH
	5.086	10.016			
			5.218		
TP-21				4.798	(TP-3) 0.003 HIGH
	4.860	9.658			
			3.985		
TP-22				5.673	(TP-2) 0.005 HIGH
	4.437	10.110			
			4.489		
TP-23				5.621	(TP-1) 0.004 HIGH
	5.898	11.519			
			6.246		
BM				5.273	NL

TP-34 FROM SAM HALLS LEVEL RUN DOWN SW 87 AVE (SEE FB M-682)

TP-34 FROM SAM HALLS LEVEL RUN DOWN SW 87 AVE (SEE FB M-682)

DAVID =
CHRIS C
MICK =

7-13-03

ELEV. ON BBCWMW 1A

M631-15

SEG-1334-D

TASK 5

STA	+	⌈	-	ELEV	DESC	
TP-12				3.567		
	4.730		8.303			
			4.210			
BBCWMW 1A				4.093	N. RIM	OUTER CASING OF BBCWMW 1A
			4.391			
BBCWMW 1A				3.912	N. SIDE	OF TOP OF 2" PVC WELL.
	4.413		8.325			
			4.759			
TP-12				3.566	0.001	LOW

BBCW1

DAVID P
CHRIS C
NICK L

7-13-05

LEVEL RUN TO BBCWMLTA & BA

M031-16

SEG 1834 M

TASK-5

STA	+	-	ELEV.	DESC.
BM			11.307	TP-10
	4.248	15.555		
		7.842		
TP #1			7.713	NL
	2.686	10.399		
		5.419		
TP-2			4.980	NL
	4.782	9.762		
		4.699		
TP-3			5.063	NL
	4.938	10.051		
		4.673		
TP-4			5.378	NL
	3.859	9.237		
		4.824		
TP-5			4.413	NL
	4.728	9.141		
		4.965		
TP-6			4.176	NL

FROM SAM HAZES LEVEL RUN DOWN 220 CUTLER RD
(SEE FB M032)

DAVID F
CHRIS C
NICK L

7-18-05

LEVEL RUN TO BBCW7-A & TP
SEG 1834-M

MC81-17
TASK 5

STA	ELEV	DESC
TP-6	4.176	
4.611	8.787	
	4.232	

BBCW7 GW2

MW-2 (TP)
~~TP-7~~

4.555	N. SIDE	OF TOP OF OUTER CASING OF S. WESTERLY WELL
4.448		
4.339	N. SIDE	OF TOP OF S. WESTERLY 2" PVC WELL

4.412 8.751

BBCW7 GW1

MW-4 (TP)
~~TP-8~~

4.199		
4.552	N. SIDE	OF TOP OF OUTER CASING OF N. EASTERLY WELL
4.342		
4.409	N. SIDE	OF TOP OF N. EASTERLY 2" PVC WELL

4.308 8.717

TP-7

4.767 8.947

4.537

4.180

(TP-6) 0.004 HIGH

4.531

TP-8

4.814 9.230

4.416

(TP-5) 0.003 HIGH

3.767

5.463

(TP-4)

DAVID F
CHRIS C
NICK L

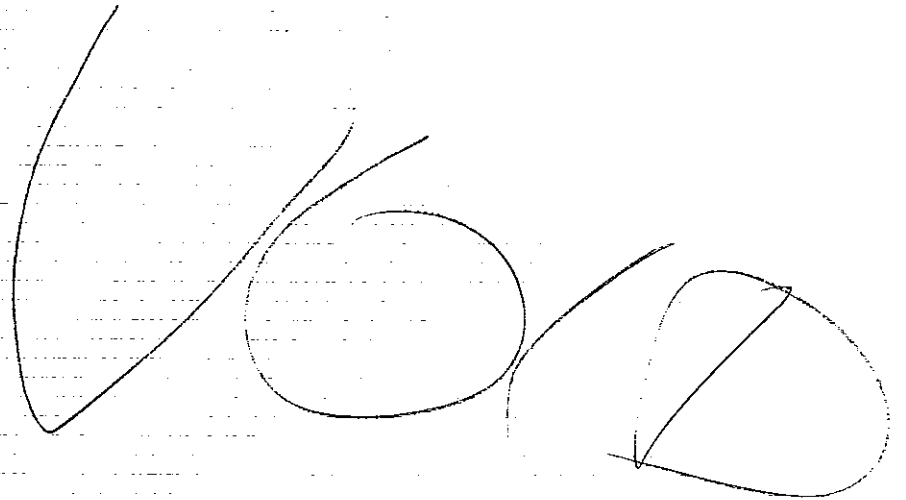
7-18-55

LEVEL RUN TO

MC81-13

STA	+	∞	-	ELEV	DESC
TP-8	4.677	9.093	3.695	4.416	
TP-10				5.398	
TP-8	4.753	9.169	3.768	4.416	
				5.401	

~~TP-4~~



DAVID F
CHRIS C
NICK L

7-18-08

PEG TEST

M-681-19

STA	+	π	-	ELEV	RANDOM	PT FOR PEG TEST.
NAIL-1				100'		
	4.434	104.434				
NAIL-2			5.133			
	5.346	104.651		99.305		
			4.648			
NAIL-1				100.003		
	4.677	104.680				
			5.359			
NAIL-2				99.321		

DAVID F
TRACY B
NICK L

7-19-05

PEG TEST FOR LEVEL RUN
TO BBWMMWTA & 8A

M 681-20

TASK 5

SEG 1834 F

STA	#	T	ELEV	DESC
"A"	5.133	105.133	100'	NL
		4.450		
"B"	4.044	104.732	100.688	NL
		4.740		
"A"			99.992	
TP-8	5.047	9.463	4.416	SEE Pg 17
		4.069		
TP-9	4.385	9.779	5.394	(TP-1-SEG-F)
		4.701		
TP-10	4.055	9.128	5.078	(TP-2-SEG-F)
		4.140		
TP-11	5.817	10.805	4.988	(TP-3-SEG-F)
		3.088		
TP-12	7.652	15.369	7.717	(TP-4-SEG-F)
		4.542		
BM			10.827	TP-9

(TP-4-SEG-M) 0.016 HIGH

(TP-3-SEG-M) 0.015 HIGH

(TP-2-SEG-M) 0.008 HIGH

(TP-1-SEG-M) 0.004 HIGH

FROM SAM HALLS LEVEL RUN DOWN OLD CUTLER RD (SEE FB M 682)

DAVID
TRACY B
MICK L

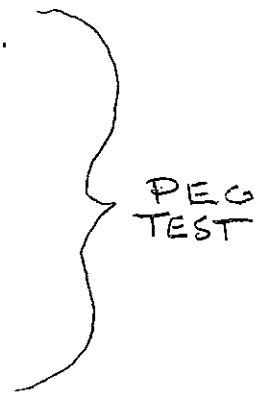
7-19-05

LEVEL RUN TO BBCWMWZA

SEG 1824 G

M631-21
TASK 11

STA	+	π	-	ELEV	DESC.
A				100.00	RANDOM NL
	3.790	103.79			
			4.176		
B				99.614	RANDOM NL
	5.003	104.617			
			4.615		
A				100.002	0.002 HIGH
BM				5.330	R-724
	5.300	11.130			
			4.473		
TP-1				6.652	NL
	4.457	11.109			
			4.934		
TP-2				6.175	NL
	4.840	11.015			
			7.479		
TP-3				3.536	NL
	2.011	5.547			
			4.628		
TP-4				0.919	NL



DAVID F.
TRACY B.
NICK L.

7-19-05

STA	+	+	-	ELEV	DESC.
TP-4				0.919	
	4.985	5.904			
			5.147		
TP-5				0.757	NL
	5.432	6.189			
			5.246		
TP-6				0.943	NL
	4.765	5.708			
			4.572		
TP-7				1.136	NL
	4.766	5.902			
			4.653		
TP-8				1.249	NL
	4.729	5.978			
			5.078		
TP-9				0.900	NL
	4.689	5.589			
			4.882		
TP-10				0.707	NL

LEVEL RUN TO BBOJMW2A

SEG 1834G

MG 81-22

TASK II

DAVID F
TRACY B
NICK L

7-19-05

LEVEL RUN TO BBCWMW2A

SEG 1834 G

MG81-23
TASK 11

Matched BBCW2 NGVD29 Elevation
on Well Elevation Chart

Does not match any wells
shown on Well Elevation Chart

STA	+	π	-	ELEV	DESC
TP-10	4.717	5.424		0.707	
			4.485		
			4.585	0.939	N. RIM OF OUTER CASING
MW (TP) TP-11				0.839	TOP OF 2" PVC WELL @ N. SIDE OF PIPE
	4.532	5.371			
			4.459		
TP-11	4.467	5.379		0.912	NL
			4.438		
TP-12	4.824	5.765		0.941	NL
			4.807		
TP-13	5.044	6.002		0.958	NL
			4.860		
TP-14	4.721	5.863		1.142	NL
			4.676		
TP-15				1.187	NL

DATE
TRACY
NICK

7-19-05

LEVEL RUN TO BBCWMWZA

M681-24

SEG 1834G

TASK 5.

STA	+	-	ELEV	DESC
TP-15			1.187	
	4.638	5.825		
		4.846		
- TP-16			0.979	NL
	4.562	5.541		
		4.798		
TP-17			0.743	NL
	4.847	5.590		
		4.892		
TP-18			0.698	NL
	5.171	5.869		
		4.744		
TP-19			1.125	NL
	5.316	6.441		
		4.610		
TP-20			1.831	NL
	9.949	11.780		
		6.486		
BM			5.294	R-722
				0.036 LOW

M 682



8411

B. Bay wells

S. HALL FF
C. CAMPANELLA π

15 July 2008

CHS 11.40m
23°

M682-5

BISCAYNE BAY COASTAL WOODS
BENCH MARK
TASK #7
SEGMENT "1334 A"

NGS F61 1 (AC1178)
7.1325316666' (2.174m) NAVD88
8.66139999' (2.640m) NGVD29

CONT 17 3

STA	BS	HI	FS	EL	BM	DESC	
S1	3.145	10.275		7.13	F61 1	BRASS DISC IN CONC	NAVD 88
S2	6.115	11.796	4.594	5.681	—	TP 1	NL
S3	5.024	12.230	4.590	7.206	—	TP 2	NL
S4	4.915	12.715	4.430	7.800		TP 3	NL
S5	4.994	12.701	5.008	7.707		TP 4	NL
S6	3.685	11.556	4.830	7.871		TP 5	NL
	4.184	9.889	5.851	5.705		TP 6	NL
			4.628	5.261	V3/4 R725	BRASS BAR	

NGS R725 (AC1180)
5.25917583333' (1.603m) NAVD88
6.784763333' (2.068m) NGVD29

S HALL
 C. CAMPANINI
 T. SERRA

16 July 2008

Cont. # 1407
 91"

M682-6

Biscayne Bay Water
 Section 78840
 BEACH WALK
 TASK

**NGS F61 1 (AC1178)
 7.1325316666' (2.174m) NAVD88
 8.66139999' (2.640m) NGVD29**

STA	BS	HI	FS	EL	BM	DESC
S1	2.169 ✓	9.299 ✓		7.13	F61 1	NGVD 88
S2	5.205 ✓	7.619 ✓	6.385 ✓	2.414 ✓		TP 1
S3	4.859 ✓	7.275 ✓	5.203 ✓	2.416 ✓		TP 2
S4	5.252 ✓	7.524 ✓	5.003 ✓	2.272 ✓		TP 3
S5	5.373 ✓	7.616 ✓	5.236 ✓	2.233 ✓		TP 4
S6	4.785 ✓	7.461 ✓	4.940 ✓	2.676 ✓		TP 5
S7	4.902 ✓	7.833 ✓	4.532 ✓	2.929 ✓		TP 6
S8	4.739 ✓	8.046 ✓	4.531 ✓	3.307 ✓		TP 7
S9	5.153 ✓	8.738 ✓	4.461 ✓	3.585 ✓		TP 8
S10	5.534 ✓	9.015 ✓	5.307 ✓	3.431 ✓		TP 9
S11	4.113 ✓	8.378 ✓	4.755 ✓	4.260 ✓		TP 10
S12	4.780 ✓	8.571 ✓	4.597 ✓	3.791 ✓		TP 11
S13	5.059 ✓	8.792 ✓	4.838 ✓	3.733 ✓		TP 12
S14	5.131 ✓	9.221 ✓	4.702 ✓	4.090 ✓		TP 13
S15	5.426 ✓	6.619 ✓	5.023 ✓	1.193 ✓		TP 14
S16	5.011 ✓	6.223 ✓	5.407 ✓	1.212 ✓		TP 15
S17	5.483 ✓	6.289 ✓	5.417 ✓	.806 ✓		TP 16
S18	5.331 ✓	6.227 ✓	5.393 ✓	.896 ✓		TP 17
S19	5.033 ✓	6.163 ✓	5.147 ✓	1.080 ✓		TP 18

CHURN IN BRIDGE @ ENTRANCE TO BAYFRONT PARK

S. HALL TM
 C. CAMPANERIA ^{TK}
 J. SENILA ^Ø

16 July 2011

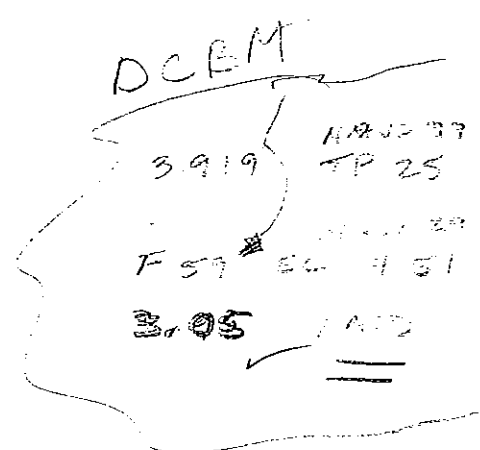
COG: 20°
 93°

7057 7058 42

MC82-7

BISCAYNE BAY WLLC
 SEGMENT "B34C"
 BENCH RUN (CONT'D)
 TASK B

STA	B3	I1	F2	S4	BM	DESC
		6.163				
S 20	4.656 ✓	^{5.639} 5.612	5.180 ✓	^{.983} 0.956		TP 19
S 21	5.334 ✓	^{6.288} 6.203	4.743 ✓	^{.392} 0.869		TP 20
S 22	5.034 ✓	^{5.973} 5.966	5.271 ✓	^{.757} 0.932		TP 21
S 23	5.142 ✓	^{6.058} 6.032	5.076 ✓	^{.917} 0.895		TP 22
S 24	5.202 ✓	^{6.122} 6.135	5.099 ✓	^{.933} 0.933		TP 23
S 25	5.635 ✓	^{6.370} 6.043	4.977 ✓	^{1.185} 1.158		TP 24
S 26	5.030 ✓	^{8.331} 8.961	2.951 ✓	^{3.892} 3.892		TP 25
S 27	5.386 ✓	^{9.522} 9.495	4.852 ✓	^{4.109} 4.109		TP 26
S 28	4.707 ✓	^{9.221} 9.174	5.028 ✓	^{4.467} 4.467		TP 27
S 29	5.289 ✓	^{9.783} 9.746	4.697 ✓	^{4.477} 4.477		TP 28
S 30	4.644 ✓	^{9.722} 8.939	5.501 ✓	^{4.265} 4.265		TP 29
S 31	5.139 ✓	^{9.100} 9.133	4.915 ✓	^{3.997} 3.997		TP 30
S 32	5.057 ✓	^{9.037} 9.215	5.130 ✓	^{3.953} 3.953		TP 31
S 33	4.993 ✓	^{9.210} 9.228	4.970 ✓	^{4.040} 4.040		TP 32
S 34	5.209 ✓	^{9.392} 9.001	5.061 ✓	^{3.992} 3.992		TP 33
		2.03	5.119	3.232	TBM	TP 28
				4.034		



NGS F59 (AC1168)
3.05445583333' (0.931m) NAVD88
4.580043333' (1.396m) NGVD29

S 37 3.445 2.334 3.079

4.305 3.05 ✓ F-59

DAVE FISHER'S BENCH RUN

S. HALL
C. CAMPANORIA
J. SILVA

17 July 2008

Comp. e. Nat

M 682-9

BISCAYNE Bay WELLS
SEGMENT "1834 E"
BENCH RUN
TASK 2

NGS R725 (AC1180)
5.25917583333' (1.603m) NAVD88
6.784763333' (2.068m) NGVD29

STA	BS	HI	FS	EL	BM	DESC
S1	4.531 ✓	9.791 ✓		5.26 ✓	R-725	
S2	5.694 ✓	10.323 ✓	5.162 ✓	4.629 ✓		NC TP1
S3	5.107 ✓	10.593 ✓	4.837 ✓	5.436 ✓		NC TP2
S4	4.867 ✓	10.388 ✓	5.072 ✓	5.521 ✓		NC TP3
S5	4.860 ✓	9.953 ✓	5.295 ✓	5.093 ✓		NC TP4
S6	4.192 ✓	10.046 ✓	4.099 ✓	5.854 ✓		NC TP5
S7	4.515 ✓	9.815 ✓	4.746 ✓	5.300 ✓		NC TP6
S8	5.175 ✓	9.620 ✓	5.370 ✓	4.445 ✓		NC TP7
S9	5.787 ✓	10.416 ✓	4.991 ✓	4.629 ✓		NC TP8
S10	5.252 ✓	10.000 ✓	5.668 ✓	4.748 ✓		NC TP9
S11	5.063 ✓	9.566 ✓ 131	5.497 ✓	4.503 ✓		NC TP10
S12	5.898 ✓	10.143 ✓ 149	5.303 ✓	4.263 ✓		NC TP11
S13	4.711 ✓	9.641 ✓ 155	5.213 ✓	4.938 ✓		NC TP12
S14	5.559 ✓	10.007 ✓ 155	5.193 ✓	4.443 ✓		NC TP13
S15	4.876 ✓	10.091 ✓ 169	4.792 ✓	5.215 ✓		NC TP14
S16	5.294 ✓	10.947 ✓ 175	4.733 ✓	5.653 ✓		NC TP15
S17	3.981 ✓	9.344 ✓ 182	5.584 ✓	5.363 ✓		NC TP16
S18	4.589 ✓	7.261 ✓ 189	6.672 ✓	2.672 ✓		NC TP17
S19	5.947 ✓	7.725 ✓ 193	5.483 ✓	1.778 ✓		NC TP18

S HALL
 C CAMPANELLA
 J SERRA

17 June 2005

CURVE NO. 1
 90°

92°
 331
 42

MOBZ-10

BISCAYNE Bay Wells
 SEGMENT 1034 E
 BENCH RUN (CONT)

STA	BS	HI 733	FS	EL	BM	DESC
S20	5.036 ✓	7.781 ⁷³³	4.950 ✓	2.775 ⁷³³		NL TP 19
S21	4.940 ✓	8.001 ⁷³³	4.620 ✓	3.101 ⁷³³		NL TP 20
S22	5.504 ✓	8.185 ¹⁹³	5.320 ✓	2.681 ⁶³⁹		NL TP 21
S23	5.314 ✓	8.130 ¹²³	5.369 ✓	2.816 ⁸²⁴		NL TP 22
S24	4.874 ✓	7.503 ⁵¹	5.501 ✓	2.629 ³⁷		NL TP 23
S25	5.293 ✓	8.078 ³⁸⁶	4.713 ✓	2.790 ⁷³³		NL TP 24
S26	4.918 ✓	7.694 ⁷³³	5.202 ✓	2.976 ⁷³³		NL TP 25
S27	6.707 ✓	7.869 ⁵¹	6.532 ✓	1.162 ⁵¹	H 093	BENCH DIS - 5/12
S28	5.440 ✓	8.325 ³⁶⁹	4.943 ✓	2.985 ⁰³³		NL TP 26
S29	4.114 ✓	7.197 ²⁰¹	5.242 ✓	3.093 ¹²⁷		NL TP 27
S30	5.304 ✓	7.470 ⁵¹⁴	5.031 ✓	2.166 ³¹²		NL TP 28
S31	5.114 ✓	7.445 ⁴³	5.137 ✓	2.351 ⁵⁰⁰		- ALL TP 29
S32	5.356 ✓	7.221 ²⁰⁰	5.430 ✓	1.985 ^{2.006}		NL TP 30
S33	5.179 ✓	7.240 ²⁰⁰	5.155 ✓	2.005 ¹⁰¹		NL TP 31
S34	5.533 ✓	7.874 ⁹¹³	4.903 ✓	2.336 ²⁷¹		NL TP 32
			5.008 ✓	2.906 ³⁵⁰		NL TP 33
			2.343 ✓	5.531 ⁵⁷⁵		MW 3A BBCW3 GW2
			2.303 ✓	5.571 ⁵⁷⁵		MW 3B BBCW3 GW1
			5.270 ✓	2.604 ⁵⁴³		GND

S. HALL TM
 C CAMPANELLA ^T
 J SILVA ^P

17 JUN 2005

City: ⁵ ~~90~~

M682-11

BISCAYNE BAY COASTAL
 SEGMENT "1352 E"
 BENCH RUN POINTS

STA	BS	HL	FS	EL	BM	DESC
S 35	5.106 ✓	⁹⁵⁰ 7.912		³⁵⁰ 2.806		NL TP 33
S 36	4.921 ✓	³⁰¹ 7.257	5.576 ✓	³³⁷ 2.336		TP 32
S 37	5.035 ✓	¹³⁹ 7.095	5.197 ✓	¹⁰⁴ 2.065		
S 38	4.926 ✓	⁹²⁴ 6.880	5.141 ✓	⁵¹³ 1.954		
S 39	5.144 ✓	⁵¹⁰ 7.466	4.560 ✓	³⁵⁷ 2.328		
S 40	5.632 ✓	³⁵³ 7.839	5.309 ✓	²⁰¹ 2.157		
S 41	5.027 ✓	¹⁴⁵ 8.001	4.365 ✓	³⁰¹³ 2.974		
S 42	5.009 ✓	⁹⁴³ 7.899	5.111 ✓	⁹³⁴ 2.990		
S 43	4.928 ✓	⁵⁰³ 7.603	5.255 ✓	⁷⁰⁷ 2.675		
S 44	5.234 ✓	³⁹⁷ 7.383	5.404 ✓	¹⁰⁷⁰ 2.119		
S 45	4.793 ✓	⁵³⁴ 7.460	4.690 ✓	⁷¹⁷ 2.667		NL TP 38
S 46	5.385 ✓	¹³⁷ 9.080	8.105 ✓	⁷⁵² 3.695		NL TP 39
S 47	5.399 ✓	¹⁹⁵ 9.151	5.027 ✓	4.053		NL TP 40
S 48	7.351 ✓	⁰⁸⁹ 12.045	4.955 ✓	⁵⁵⁷ 4.195		NL TP 41
S 49	5.146 ✓	²⁵⁸ 13.214	3.977 ✓	⁷¹⁷ 8.068		NL TP 42
S 50	5.172 ✓	⁷⁰⁷ 13.263	4.523 ✓	⁷³⁵ 8.697		NL TP 43
S 51	5.157 ✓	⁹²⁰ 12.278	6.142 ✓	⁷⁰⁵ 7.121		NL TP 44
S 52	4.482 ✓	⁷⁵⁸ 11.718	5.646 ✓	⁷⁴⁰ 7.232		NL TP 45
S 53	6.011 ✓	²⁷⁹ 11.249	5.516 ✓	²⁵⁰ 6.239		NL TP 46
S 54	6.425 ✓	12.562	4.712 ✓	¹⁰¹ 7.137		NL TP 47

S. HALL PI
C CAMPANELLA TR
P SERRA Q

17 JUL 2004

Cut # 105
933

11632-12

BISCAIÑO BAY WELLS
SEGMENT "18342"
BENCH W/N
TASK 3

STA	ES	IN	FS	EL	BM	DBBL
536	4.961	5.944		0.983	76M	NL TP 19

2.646 3.293

MW 4A

BBCW4A

4.654 1.290

GND

4.962 0.982

NL TP 19

S HALL 17
 C. CAMPANEXIA X
 J SONILA Ø

18 Jun 2008

Cog. HoT
 70°

M692-13

DISCOYAS BAY WOODS
 BEACH W/IN (SOUTH)
 SECTION "7364 E"

STA	BS	HI	FS	EW	BM	DISC
		12.562				
S 55	4.834 ✓	11.115	6.291 ✓	6.281		NIC TP 48
S 54	5.139 ✓	11.558	4.696 ✓	6.419		
S 57	4.922 ✓	12.042	4.433 ✓	7.120		
S 53	3.765 ✓	10.509	5.299 ✓	6.743		
S 59	4.431 ✓	8.750	6.190 ✓	4.319		
			3.525 ✓	5.325	R 724	BRASS BAR / CONC EL 5.33
				-(.067)		

NGS R745 (AC1181)
5.328073333' (1.624m) NAVD88
6.8536683333' (2.089m) NGVD29

C. ESTERANEZ
S. LALL
P. LEIVA

BISCAMI BAY WELL

WSM 1374

SUNNY

2011-08-08

M682-14

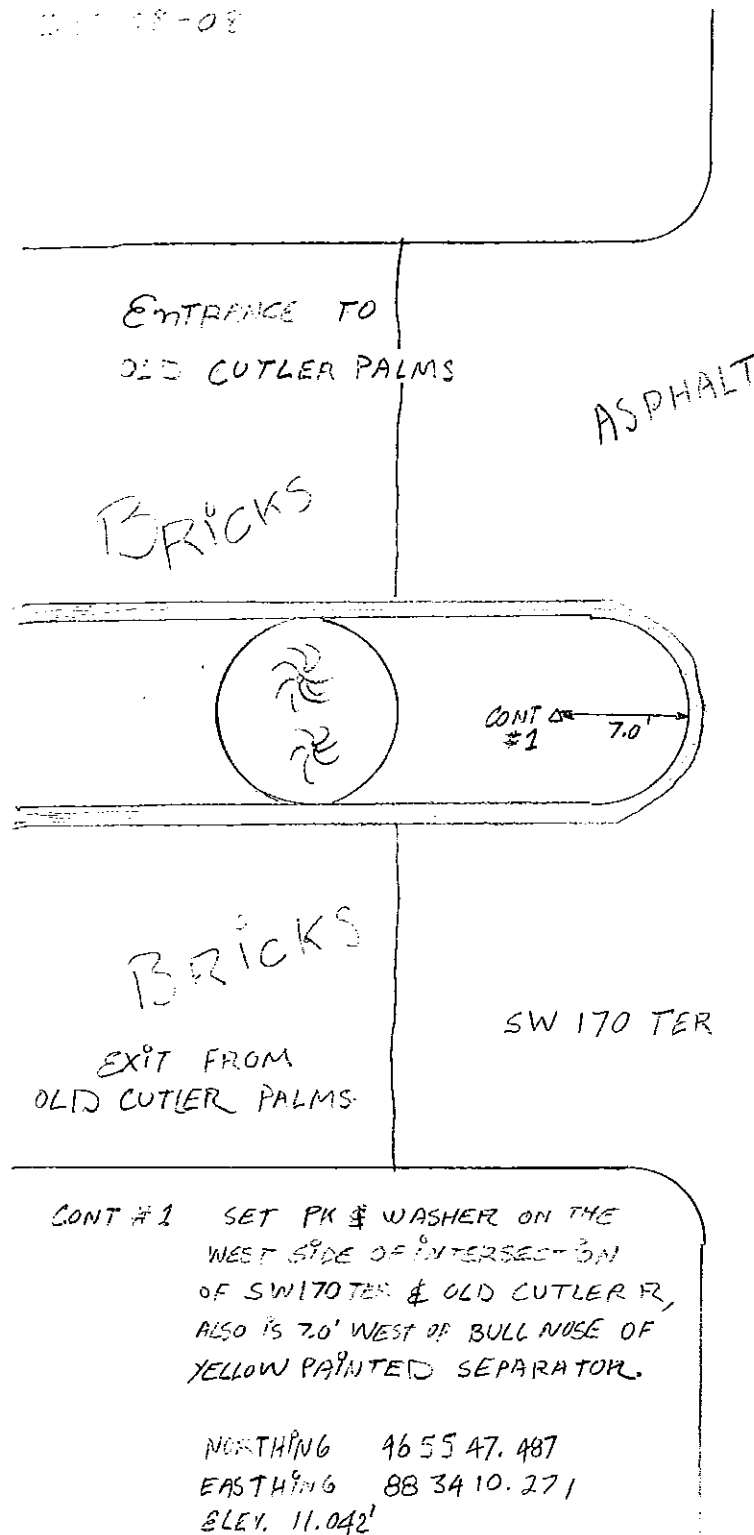
WELLS LOCATION

BASE @ TRAY 4
RECEIVER #1
P - HGT = 2.056M @ BASE
START = 9:05 AM
END = 11:05 AM

POINT #	DESCRIPTION
500	TRAY #2 CONTROL (60'S nail)
501	CONT #1 (SET PK & WASHER)
502	TRAY #2 CONTROL (60'S nail)

BASE @ CONT #1
RECEIVER #1
START = 11:35 AM
END = 2:20 PM

POINT #	DESCRIPTION
503	TRAY 4 CONTROL
504	TRAY 4 CONTROL
505	WELL 8A (SHOT TAKEN ON TOP OF CASIN)
506	WELL 8A (SHOT TAKEN ON PIPE)
507	WELL 8B (SHOT TAKEN ON TOP OF CASIN)
508	WELL 8B (SHOT TAKEN ON PIPE)



CONT #1 SET PK & WASHER ON THE WEST SIDE OF INTERSECTION OF SW170 TER & OLD CUTLER RD, ALSO IS 7.0' WEST OF BULL NOSE OF YELLOW PAINTED SEPARATOR.

NORTHING 465547.487
EASTING 883410.271
ELEV. 11.042'

OLD CUTLER RD

G. ESTEBANEZ
S. HALL
R. LEYVA

BISCAYNE BAY WELL

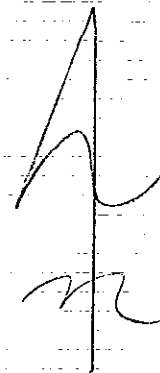
WSM 1834

SUNNY

AUG. 08 - 05

M682 - 15

WELLS LOCATION

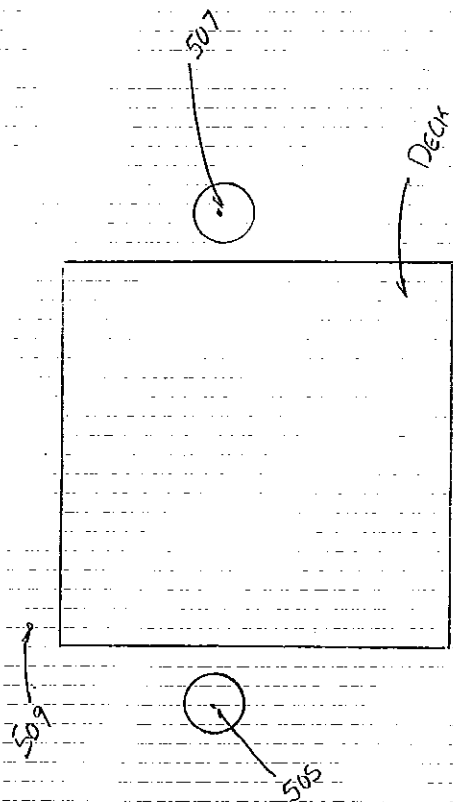


POINT #	DESCRIPTION
509	SHOT TAKEN ON BOTTOM OF OCEAN
510	SHOT TAKEN @ WATER LEVEL
511	SHOT TAKEN ON DECK
512	TRAV #4 CONTROL

BASE @ 11:09
RECEIVER # 1
RANGE = 2.000M
START = 4:35 PM
END = 6:51 PM

JOB # 1834-2

POINTS #	DESCRIPTION
550	R-725 Control
551	WELL 10.A (TOP OF CASING)
552	WELL 10.A (SHOT TAKEN ON PIPE)
553	WELL 10.B (TOP OF CASING)
554	WELL 10.B (SHOT TAKEN ON PIPE)
555	DECK
556	WATER LEVEL
557	BOTTOM
558	R-725 Control



G. ESTEBANEZ
J. HERNANDEZ
R. LEYVA
JC SEVILA

BISCAYNE BAY WELL

WELL 34-E

SUNNY

Aug 9-05

M682-16

WELL LOCATIONS

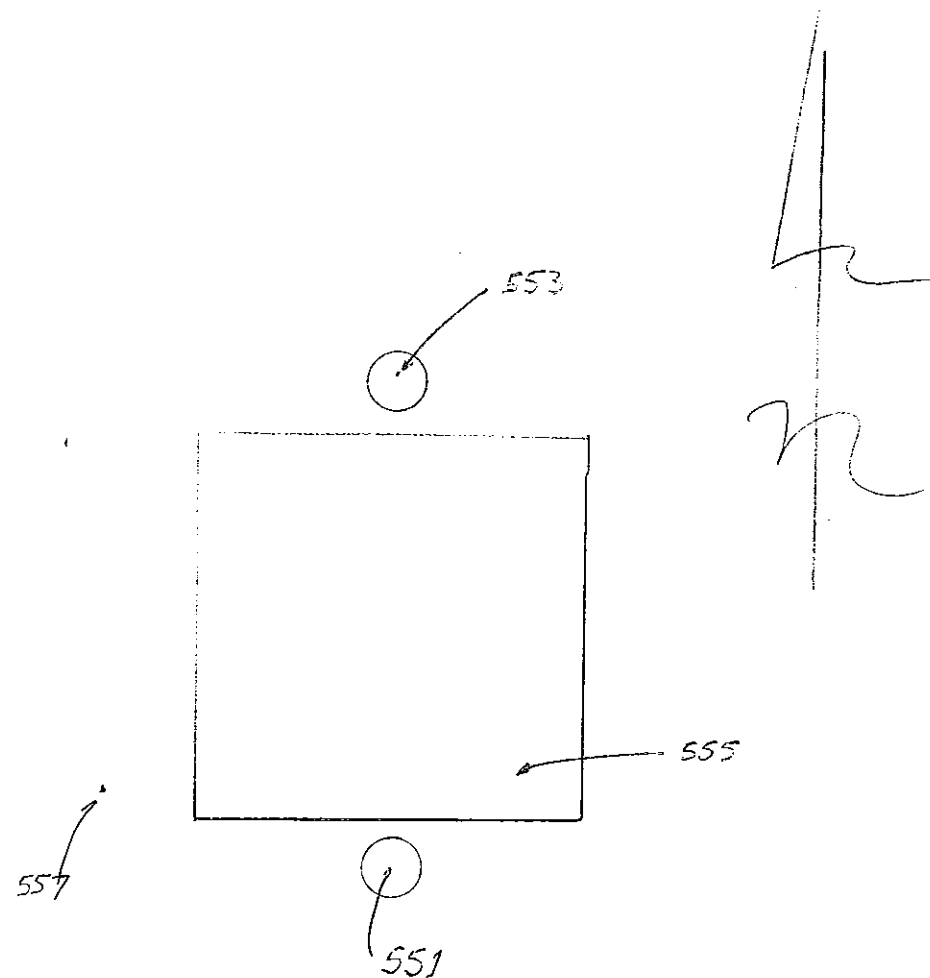
Base @ H-098
RECEIVER #1
ANT Hgt = 2,000M
START = 7:45 AM
End = 9:00 AM

POINT #	DESCRIPTION
559	R-725
560	CONT. #2 PK & WASHER
561	CONT. #2 PK & WASHER
562	R-725

Base @ CONT #2
RECEIVER #1
ANT Hgt = 2,000M
START = 9:35 AM
End = 11:55 AM

POINT #	DESCRIPTION
563	H-098 CONTROL
564	R-725 CONTROL
565	CONT. #3 PK nail
566	CONT. #3 PK nail
567	H-098 CONTROL

CONT #3: SET PK nail 1.0' NORTH OF SOUTH EP OF A BIKE PATH
SITUATED ON THE NORTH SIDE OF SW 344 ST
TO REACH THE STATION FROM INTERSECTION OF SW 137 AVE
& SW 344 ST, GO WEST ON SW 344 ST FOR ± 0.9 MILE, JUST ON
THE CURVE, ALSO IS 15' SOUTH OF POWER POLE #6068,
also #00185



G. ESTEBANEZ
 J. HERNANDEZ
 J.C. ARELLANO
 R. LEYVA

BISCAYNE BAY WELL

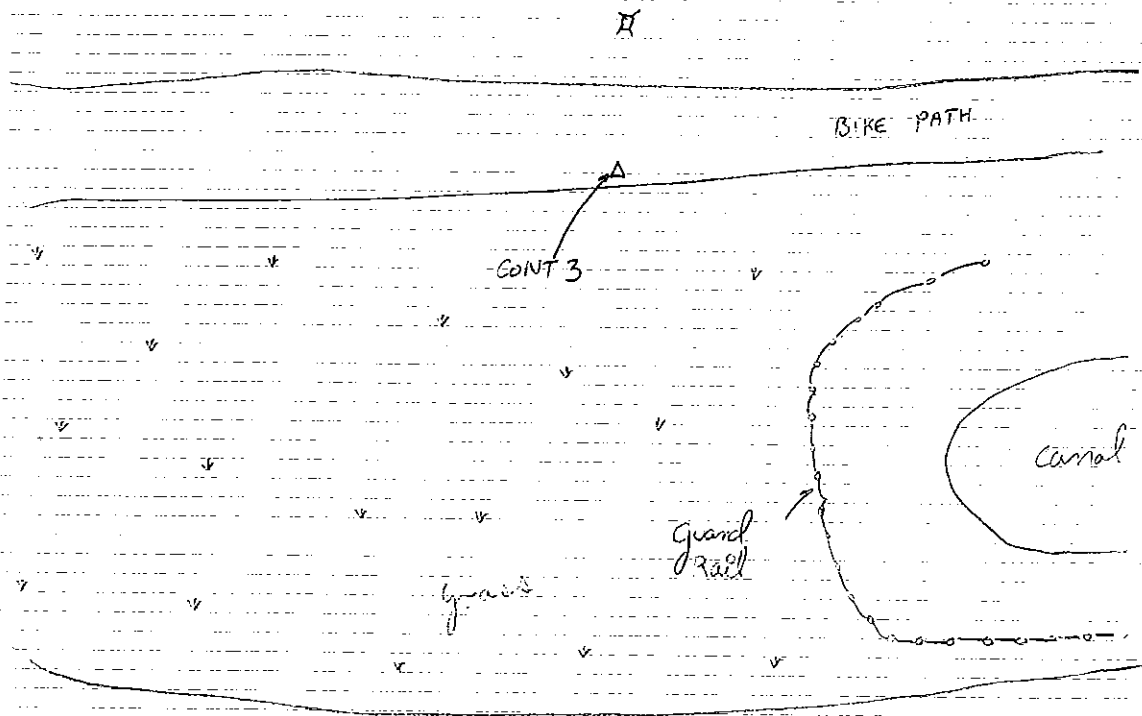
WSM 1834-2

SUNNY

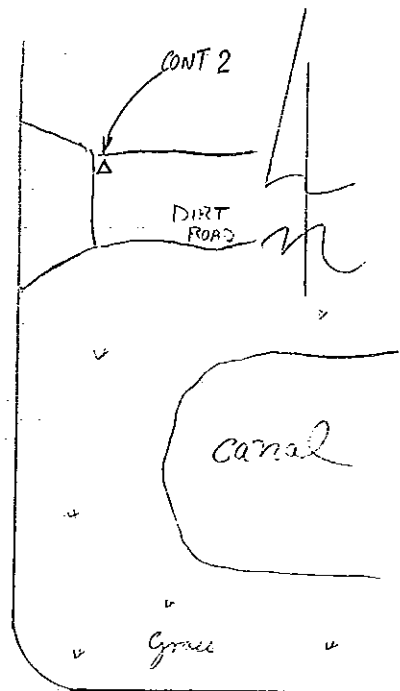
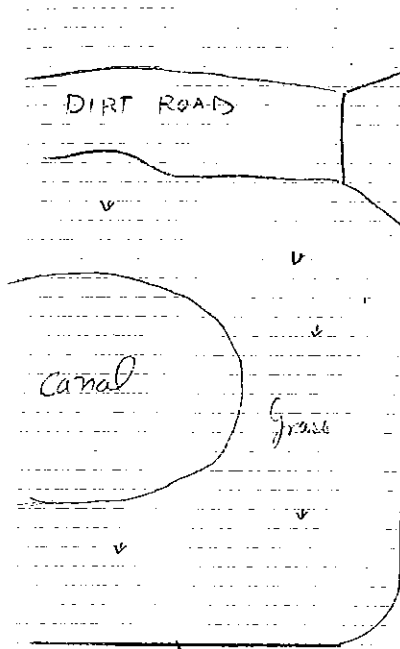
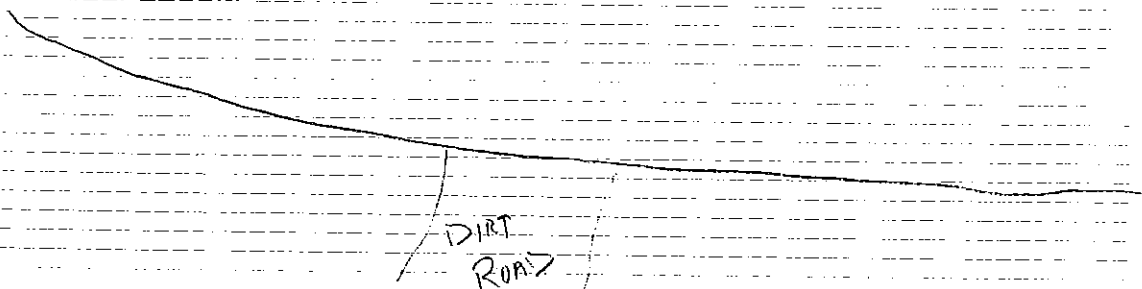
Aug 09-05

M682 - 17

WELL LOCATION

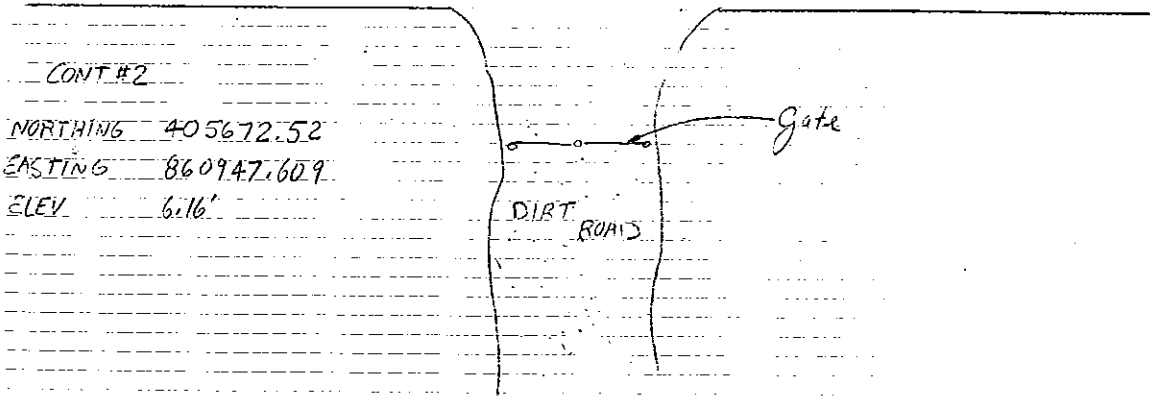


SW 344 ST



CONT #2: SET PK & WASHER.
 THIS POINT IS LOCATED 125' NORTH OF
 INTERSECTION OF SW 344 ST & SW 117 AVE,
 ALSO IS SITUATED 25.0' EAST OF CL OF
 SW 117 AVE. ALSO IS LOCATED @ THE
 ENTRANCE OF A DIRT ROAD GOING EAST.
 THERE IS 12.5' FROM EAST EP TO THE MARK

SW 344 ST
 (PALM DR)



CONT #2
 NORTHING 405672.52
 EASTING 860947.609
 ELEV 616'

G. S. TERANEZ
C. J. HERNANDEZ
J. L. SEVILA
R. LEYVA

BISCAYNE BAY WELL

WSM 1234 - 3

WELL LOCATION

SUNNY

019 09-05

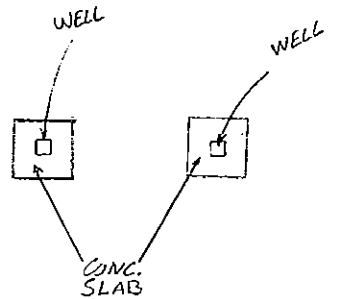
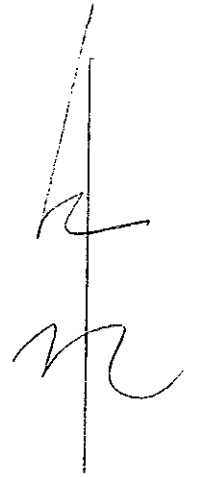
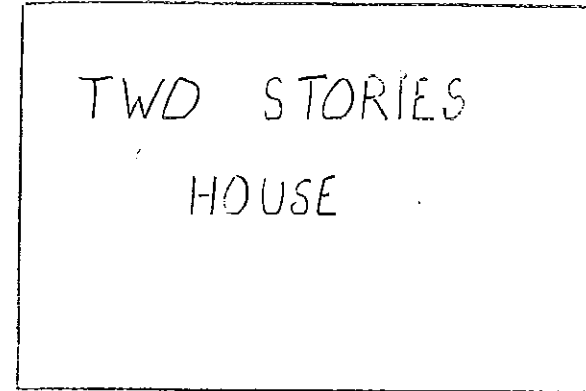
M682-18

BASE 2) CONT #3
RECEIVER #1
RNT HST = 2.000 M
START = 12:20 PM
END = 2:06 PM

POINT #	DESCRIPTION
565	CONT #2 rd & WAS (CONTROL)
569	WELL 6A (WEST WELL) TOP OF PIPE
570	WELL 6A (WEST WELL) TOP OF CASIN
571	CONCRETE SHOT NEXT TO WELL 6A
572	CONCRETE SHOT NEXT TO WELL 6B
573	WELL 6B (EAST WELL) TOP OF PIPE
574	WELL 6B (EAST WELL) TOP OF CASIN
575	CONT #2

* ALL PIPES FOUND INSIDE THE CASINS ARE 2" PVC

CONT #3
NORTHING 405516.35
EASTING 843842.996
ELEV 5.013'



Job No 1834

BM RUN

Palm Dr
(Homestead)

Antonio Cortes
Chris Campanero
Gerardo Ferrer

T 90°F

4682-18

08-09-05

Prog Test

A: 4.439

B: 4.537

C: 4.825

D: 4.724

STA	BS(+)	HI	FS(-)	Elev.
BM/ V314	3.406	9.566		6.16
TP1	4.013	10.20	3.379	6.187
TP2	4.08	9.824	5.034	5.116
TP3	5.257	10.173	4.903	4.921
TP4	4.546	9.487	5.237	4.941
TP5	4.219	8.982	4.724	4.763
BM 2: 8ES		4.062		4.92 (0.02)

NGS V314 (AC1165)
6.1745283333' (1.882m) NAVD88
7.703396666' (2.348m) NGVD29

Remarks

End STMD V 314

Elev. 6.16 See NGS Data Sheet

NGS 8ES (AC1164)
4.94421583333' (1.882m) NAVD88
6.469803333' (1.972m) NGVD29

End STMD 8ES Elev 4.94 See NGS Data Sheet

Job N° 1934

Palm Dr.
Homestead

Antonio Cortes N
Chris Campanera T
Gerardo Ferrer P

T 92°F

M082 / 19
09-10-05

B4 20N

Perq Test

A 4.760

B: 4.857

C: 5.082

D: 5.179

**NGS 8ES (AC1164)
4.94421583333' (1.882m) NAVD88
6.469803333' (1.972m) NGVD29**

STA	BS (+)	HI	FS (-)	Elev	Adj	Remarks
BH2	4.176	9.116		4.94		End stud 8ES Elev. 4.94
3ES						
TP10		8.94	4.534	4.532		
TP11	4.679	9.343	4.276	4.664		
TP12		11.883	5.061	4.282		
TP13			7.065	4.823		

WSM 1034

BM PUN (cm)

Homestead

Same Crew

792° F

4682 1/20

08-10-05

TP12

4.52

10.5

4.823

4.823

TP13

5.487

9.038

5.592

4.713

TP14

4.320

9.937

4.159

4.379

TP15

5.053

9.847

5.843

4.094

TP16

5.753

9.508

5.351

4.296

TP17

5.212

9.130

4.730

4.770

TP18

4.352

4.446

4.684

TP19

WSM 1834

BM RUN (cont)

Palm Dr
Homestead

Sarre Creek

T92°F

M682/21
08-10-05

STA	BS (ft)	HI	FS (ft)	Elev.	Adj _c	Remarks
TP19	5.155	9.839		4.634		
TP20	5.609	9.616	5.832	4.007		
TP21	4370	9.256	4.730	4.336		
TP22	5890	11.516	3.630	5.626		
C3 GPS			6.455	5.061		
TP23	6.027	9.473	8.070	3.446		
TP24			5.938	3.535		

WSM 1834

PH DUN CO

Falm Di
Hornet

Same Crew

T92°

U682 / 22

08-10-05

STA	BS (+)	HI	FS (+)	Elev	LE
TP24	6.131	9.666		3.535	
TP3	2.853	7.077	5.442	4.224	
TP26	5.92	6.920	5.273	1.804	
TP27	4.697	6.959	4.646	2.26	
TP28	4.683	6.732	4.862	2.097	
TP29	4.517	6.635	4.664	2.118	
TP30			4.557	2.078	

Remarks

WSM 1934

BM RUN (cont)

Palmd
Horrocks

Same Cor

T92st4682 / 23
08-10-05

STA	BSID	#1	#2	Ilev	Ali _c	Remarks
TP30	4.854	6.932		2.078		
TP31	5.135	7.090	4.977	1.955		
TP32	4.939	7.281	4.748	2.342		
TP33	4.858	6.685	5.454	1.827		
TP34	6.135	8.203	4.617	2.008		
TP35	4.560	6.684	6.079	2.124		
TP36			4.994	1.89		

WSH 1834

BM BUN (Elev) Forestead

Same Crew

T. 92° E

4682 1/24

001005

STA	BS (+)	HI	FS (-)	Elev	Adj
-----	--------	----	--------	------	-----

Remarks

6.814

TP36	5.124			1.69	
------	-------	--	--	------	--

6.510

TP37	5.109		5.413	1.401	
------	-------	--	-------	-------	--

6.53

TP38	4.695		4.675	1.835	
------	-------	--	-------	-------	--

6.657

TP39	4.802		4.675	1.955	
------	-------	--	-------	-------	--

6.697

TP40	5.227		5.187	1.47	
------	-------	--	-------	------	--

GA1			5.159	1.533	
-----	--	--	-------	-------	--

ON CONC SLAB

GA2			5.356	1.361	
-----	--	--	-------	-------	--

ON CONC SLAB

GA2			2.455	4.242	
-----	--	--	-------	-------	--

TOP OF PIPE SJ

GA3			2.848	3.844	
-----	--	--	-------	-------	--

Top of PVC

BBC6B

W5M 1824

B.M. 2013 (100')

Horizontal

Same Crew

792°

4682 25
08-10-05

STA

BS (-)

HI

F.S. (-)

Eq.

Adj.

Remarks

6.697

Top of Pipe

6B2

2.633

4.059

6B3

2.990

2.707

Top of PVC

BBCW6A

TP41 4522

6.547

4.570

2.127

TP 50 5112

6.577

5.132

1.465

TP51 4749

6.587

4.737

1.84

TP52 4461

6.279

4.771

1.815

TP53

4.904

1.375

WSM 1834

BM RUN

Homestead

Same Crew

T920F

H682 / 26
08-10-05

STA (SC)

HI

FS ()

Elev

Adj
C

Remarks

TP53 5.407 6.862 1.375

TP54 4.937 6.629 5.17 1.692

TP55 5.776 7.917 4.499 2.141

TP56 4.626 6.670 5.853 2.064

TP57 5.462 7.287 4.845 1.825

TP58 4.672 7.009 4.950 2.337

TP59 5.061 1.948

0711 1392

Same Crew

T939#

4682 127
08-10-05

BM RUN 1

STA	BS (ft)	HI	FS (ft)	Elev.	AL C	Remarks
TP59	4.850	6.793		1.943		
TP60	4.463	6.52	4741	2.057		
TP61	4.711	6.819	4412	2.103		
TP62	4.861	6.921	4759	2.06		
TP63	4.556	6.793	4.684	2.237		
TP64	5.604	7.386	5.011	1.782		
TP65			3.191	4.195		

W5M1384

Same Crew

T 92°F

M682 128

EMCON

Horizontal

08-105

STA BSC (1)

HI

FSC (1)

Elev

Adj

Remarks

TP65 5.383

9.578

4.195

TP66 5.748

9.248

6.078

3.50

TP67 7.373

10.758

5.363

3.335

TP68 3.378

9.939

5.147

5.611

TP69 4.430

9.311

4.108

4.881

TP70 5.719

9.727

5.303

4.008

TP71

5.057

4.67

WSH 1974

BU RUN (cm)

High - Low

Source Count

792°F

H682 / 29

08-10-05

STA	BSC (cm)	HI	REF	T ₂	Adj	Remarks
TP71	4.180	8.850		4.670		
TP72	4.564	9.313	4.096	4.754		
TP73	5.375	9.650	5.043	4.275		
TP74	5.610	9.673	5.532	4.063		
TP75	4.007	8.87	4.315	4.863		
TP76	5.583	10.288	4.165	4.705		
TP77			5.482	4.806		

1884

BM RUN

Hsmesterial

Suma crew

T 92°F

M682 / 30

09-10-05

STA	BS	LI	FS	Elv	Li	Remarks
TP 77	7.118	11.924		4.806		
TP 78	4.363	9.136	7.656	4.263		
TP 79	4.269	8.927	4.478	4.658		
TP 80	4.410	8.979	4.358	4.569		
BM 3 8ES		4.047		4.232 (0.003)		

NGS 8ES (AC1164)
4.94421583333' (1.882m) NAVD88
6.469803333' (1.972m) NGVD29

Fnd STME
 SW. 40'

DATE: 12-15-08
 TIME: 10:30
 RAIN: 0

BISCAYNE BAY WELL

Sunny

avg 15-08

M682 - 31

WEM 1334

Elev RUN FOR CONTROL #1

STATION	(+)	MEAS	HI	(-)	MLD	ELEV	DESCRIPTION
DCBM CD 18 1	5.028 2.515' 2.005'	(3.513')	19.513' 18.121			16.00	FIND BRASS DISC; SET ON THE TOP OF THE WEST WALKWAY OF THE BRIDGE OVER CUTLER CREEK.
TP#1	5.32' 4.59' 3.86'	(4.59')	16.813' 15.432	3.56' 7.29' 5.22'	(7.29')	12.223' 19.529	SET PK NAIL ON EAST EDGE OF PAVEMENT OF OLD CUTLER RD
CONTROL # 1	6.59' 5.31' 5.03'	(5.806')	16.799 15.111	6.55' 5.32' 5.04'	(5.806')	10.993 9.305	REFER TO PAGE 14
TP#2	7.45' 6.58' 5.695'	(6.575')	19.434 18.046	5.025' 3.91' 3.555'	(3.91')	12.859 11.471	SET PK NAIL ON EAST EDGE OF OLD CUTLER RD JUST IN C OF BIKE PATH
TP#3	5.01' 4.775' 4.545'	(4.776')	19.658 18.77	5.121' 4.551' 3.825'	(4.551')	14.832 13.494	SET PK NAIL ON EAST SIDE OF OLD CUTLER RD IN EDGE OF PAVEMENT
BM DCBM CD 18 2	6.965 6.710 6.460	(6.712)	21.347	5.35' 5.035' 4.625'	(5.035')	14.635 13.247	14.640
				5.590 5.340 5.090	(5.340)	16.007 <u>16.00</u>	

Identifi cation_I nformati on:

Ci tati on:

Ci tati on_I nformati on:

Ori gi nator: SFWMD
Publ i cation_Date: Unpubl i shed materi al
Publ i cation_Ti me: Unknown
Ti tle: BBCW Well s
Edi ti on: 2
Geospati al_Data_Presentati on_Form: map
Seri es_I nformati on:
 Seri es_Name: 1
 I ssue_I denti fi cation: 2
Publ i cation_I nformati on:
 Publ i cation_Pl ace: Mi ami , Fl ori da
 Publ i sher: SFWMD, Wei dener Surveyi ng & Mappi ng, P. A.
Onl i ne_Li nkage: www.wei dener.com
Larger_Work_Ci tati on:
 Ci tati on_I nformati on:
 Seri es_I nformati on:
 Publ i cation_I nformati on:

Descri pti on:

Abstract:

Wei dener Surveyi ng & Mappi ng, P. A. (LB4207), operati ng under the authori ty of SFWMD was tasked with the executi on of a Speci fi c Purpose Survey. The project area is contained wi thi n the Bi scayne Bay Coastal Wetl ands area.

Purpose:

At Bi scayne Bay Coastal Wetl ands i n southern Mi ami -Dade County, Fl ori da, WSM l ocated geotechni cal well for hori zontal and verti cal data.

Ti me_Period_of_Content:

Ti me_Period_I nformati on:

Si ngl e_Date/Ti me:

Cal endar_Date: 20050824

Range_of_Dates/Ti mes:

Mul ti pl e_Dates/Ti mes:

Currentness_Reference: Publ i cation Date

Status:

Progress: Complete

Mai ntenance_and_Update_Frequency: As needed

Spati al_Domai n:

Boundi ng_Coordi nates:

West_Boundi ng_Coordi nate: -80.4336

East_Boundi ng_Coordi nate: -080.3058

North_Boundi ng_Coordi nate: +25.6764

South_Boundi ng_Coordi nate: +25.4298

Keywords:

Theme:

Theme_Keyword_Thesaurus: Tri - Service Spati al Data Standard

Theme_Keyword: Hydrography

Pl ace:

Stratum:

Temporal :

Access_Constrai nts: None

Use_Constrai nts:

The i nformati on depicted represents the condi ti on of the time of the survey. Any assumpti ons thereafter are at the users ri sk/li abi l i ty.

Poi nt_of_Contact:

Contact_I nformati on:

Contact_Person_Pri mary:

Contact_Person: Jorge Fernandez, PLS

Contact_Organi zati on: Wei dener Surveyi ng & Mappi ng, P. A.

Contact_Organi zati on_Pri mary:

Contact_Positi on: Project Manager / Di rector of Surveys

Contact_Address:

Address_Type: mai l i ng and physi cal address

Address: 10418 NW 31 Terrace

Ci ty: Mi ami

BBCW-Well s_Metadata.gen
 State_or_Province: FL
 Postal_Code: 33160
 Country: USA
 Contact_Voice_Tel ephone: 305-599-6381
 Contact_Facsi mi l e_Tel ephone: 305-599-2797
 Contact_El ectroni c_Mai l _Address: j.fernandez@weidener.com
 Hours_of_Servi ce: regul ar busi nees hours
 Securi ty_I nformati on:
 Cross_Reference:
 Ci tati on_I nformati on:
 Seri es_I nformati on:
 Publ i cati on_I nformati on:
 Data_Qual i ty_I nformati on:
 Attri bute_Accuracy:
 Posi ti onal_Accuracy:
 Hori zontal _Posi ti onal_Accuracy:
 Verti cal _Posi ti onal_Accuracy:
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 Ci tati on_I nformati on:
 Seri es_I nformati on:
 Publ i cati on_I nformati on:
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 Mul ti pl e_Dates/Ti mes:
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 Process_Contact:
 Contact_I nformati on:
 Contact_Person_Pri mary:
 Contact_Organi zati on_Pri mary:
 Contact_Address:
 Spati al _Data_Organi zati on_I nformati on:
 Spati al _Reference_I nformati on:
 Hori zontal _Coordi nate_System_Defi ni ti on:
 Geographi c:
 Pl anar:
 Map_Proj ecti on:
 Al bers_Coni cal _Equal_Area:
 Azi muthal _Equi di stant:
 Equi di stant_Coni c:
 Equi rectangul ar:
 General_Verti cal _Near-si ded_Perspecti ve:
 Gnomi c:
 Lambert_Azi muthal _Equal_Area:
 Lambert_Conformal_Coni c:
 Mercator:
 Modi fi ed_Stereographi c_for_Al aska:
 Mi l l er_Cyl i ndri cal :
 Obl i que_Mercator:
 Obl i que_Li ne_Poi nt:
 Orthographi c:
 Pol ar_Stereographi c:
 Pol yconic:
 Robi nson:
 Si nusoi dal :
 van_der_Gri nten:
 Space_Obl i que_Mercator_(Landsat):
 Stereographi c:
 Transverse_Mercator:
 van_der_Gri nten:
 Gri d_Coordi nate_System:
 Uni versal _Transverse_Mercator:
 Transverse_Mercator:

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BBCW-Well s_Metadata.gen
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          Transverse_Mercator:
            Obl i que_Mercator:
              Obl i que_Li ne_Poi nt:
                Pol yconi c:
          ARC_Coordinate_System:
            Equi rectangul ar:
              Azi muthal _Equi di stant:
        Local _PI anar:
        PI anar_Coordinate_I nformati on:
          Coordinate_Representati on:
            Di stance_and_Beari ng_Representati on:
          Local :
          Geodeti c_Model :
        Verti cal _Coordinate_System_Defi ni ti on:
          Al ti tude_System_Defi ni ti on:
          Depth_System_Defi ni ti on:
Enti ty_and_Attri bute_I nformati on:
  Detai led_Descri pti on:
    Enti ty_Type:
    Attri bute:
      Attri bute_Domai n_Val ues:
      Attri bute_Val ue_Accuraci ty_I nformati on:
    Overvi ew_Descri pti on:
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  Di stri butor:
    Contact_I nformati on:
      Contact_Person_Pri mary:
      Contact_Organi zati on_Pri mary:
      Contact_Address:
    Standard_Order_Process:
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        Di gi tal _Transfer_I nformati on:
        Di gi tal _Transfer_Opti on:
          Onl i ne_Opti on:
            Computer_Contact_I nformati on:
              Network_Address:
              Di al up_I nstructi ons:
          OffLi ne_Opti on:
            Recordi ng_Capaci ty:
  Avai l abl e_Ti me_Period:
    Ti me_Period_I nformati on:
      Si ngl e_Date/Ti me:
      Range_of_Dates/Ti mes:
      Mul ti pl e_Dates/Ti mes:
Metadata_Reference_I nformati on:
  Metadata_Date: 20050824
  Metadata_Contact:
    Contact_I nformati on:
      Contact_Person_Pri mary:
        Contact_Person: Jorge Fernandez, PSM
        Contact_Organi zati on: Wei dener Surveyi ng & Mappi ng, P. A.
      Contact_Organi zati on_Pri mary:
      Contact_Positi on: Project Manager / Di rector of Survey
      Contact_Address:
        Address_Type: mai li ng and physi cal address
        Address: 10418 NW 31 Terrace
        Ci ty: Mi ami
        State_or_Provi nce: FI
        Postal_Code: 33172
        Country: USA
      Contact_Voi ce_Tel ephone: 305-599-6381
      Hours_of_Servi ce: 9-5
  Metadata_Standard_Name: FGDC Content Standards for Di gi tal Geospati al Metadata
  Metadata_Standard_Versi on: Current
  Metadata_Securi ty_I nformati on:

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The NGS Data Sheet

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

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PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,  Retrieval Date = NOVEMBER 25, 2015
AC1164 *****
AC1164 DESIGNATION - 8 ES
AC1164 PID - AC1164
AC1164 STATE/COUNTY- FL/MIAMI-DADE
AC1164 COUNTRY - US
AC1164 USGS QUAD - HOMESTEAD (1994)
AC1164
AC1164 *CURRENT SURVEY CONTROL
AC1164
AC1164* NAD 83(1986) POSITION- 25 26 52.87 (N) 080 24 42.91 (W) HD HELD1
AC1164* NAVD 88 ORTHO HEIGHT - 1.507 (meters) 4.94 (feet) ADJUSTED
AC1164
AC1164 GEOID HEIGHT - -25.097 (meters) GEOID12B
AC1164 DYNAMIC HEIGHT - 1.504 (meters) 4.93 (feet) COMP
AC1164 MODELED GRAVITY - 978,970.9 (mgal) NAVD 88
AC1164
AC1164 VERT ORDER - SECOND CLASS 0
AC1164
AC1164.The horizontal coordinates were determined by differentially corrected
AC1164.hand held GPS observations or other comparable positioning techniques
AC1164.and have an estimated accuracy of +/- 3 meters.
AC1164.
AC1164.The orthometric height was determined by differential leveling and
AC1164.adjusted by the NATIONAL GEODETIC SURVEY
AC1164.in June 1991.
AC1164
AC1164.Significant digits in the geoid height do not necessarily reflect accuracy.
AC1164.GEOID12B height accuracy estimate available here.
AC1164
AC1164.The dynamic height is computed by dividing the NAVD 88
AC1164.geopotential number by the normal gravity value computed on the
AC1164.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AC1164.degrees latitude (g = 980.6199 gals.).
AC1164
AC1164.The modeled gravity was interpolated from observed gravity values.
AC1164
AC1164; North East Units Estimated Accuracy
AC1164;SPC FL E - 123,598.4 259,146.9 MT (+/- 3 meters HH1 GPS)
AC1164
AC1164 SUPERSEDED SURVEY CONTROL
AC1164
AC1164 NGVD 29 (??/??/92) 1.972 (m) 6.47 (f) ADJ UNCH 2 0
AC1164
AC1164.Superseded values are not recommended for survey control.
AC1164
AC1164.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AC1164.See file dsdata.txt to determine how the superseded data were derived.
AC1164
AC1164_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ5912614688 (NAD 83)
AC1164
AC1164_MARKER: DD = SURVEY DISK
AC1164_SETTING: 36 = SET IN A MASSIVE STRUCTURE
AC1164_SP_SET: BRIDGE
AC1164_STAMPING: 8 ES 1955
AC1164_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

```

DATASHEETS

AC1164_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AC1164+SATELLITE: SATELLITE OBSERVATIONS - April 17, 2005

AC1164

AC1164	HISTORY	- Date	Condition	Report By
AC1164	HISTORY	- 1955	MONUMENTED	USGS
AC1164	HISTORY	- 1970	GOOD	NGS
AC1164	HISTORY	- 1982	GOOD	LOCSUR
AC1164	HISTORY	- 1987	GOOD	USPSQD
AC1164	HISTORY	- 1987	GOOD	USPSQD
AC1164	HISTORY	- 1988	GOOD	USPSQD
AC1164	HISTORY	- 1989	GOOD	USPSQD
AC1164	HISTORY	- 19901230	GOOD	USPSQD
AC1164	HISTORY	- 19950910	GOOD	USPSQD
AC1164	HISTORY	- 20050417	GOOD	INDIV

AC1164

AC1164

STATION DESCRIPTION

AC1164

AC1164'DESCRIBED BY NATIONAL GEODETIC SURVEY 1970

AC1164'3.9 MI E FROM FLORIDA CITY.

AC1164'ABOUT 3.9 MILES EAST ALONG PALM DRIVE FROM THE INTERSECTION OF

AC1164'U.S. HIGHWAY 1 AT FLORIDA CITY, AT THE INTERSECTION OF PALM

AC1164'DRIVE AND TALAHASSEE ROAD (137 TH AVENUE), SET IN THE TOP OF THE

AC1164'WEST END OF THE SOUTH ABUTMENT FOR A 40-FOOT CONCRETE BRIDGE

AC1164'OVER THE FLORIDA CITY CANAL, 37 FEET NORTH OF THE CENTER LINE

AC1164'OF THE SOUTH LANE OF PALM DRIVE, 15 FEET WEST OF THE CENTER

AC1164'LINE OF TALAHASSEE ROAD, AND ABOUT LEVEL WITH THE ROAD.

AC1164

AC1164

STATION RECOVERY (1982)

AC1164

AC1164'RECOVERY NOTE BY LOCAL SURVEYOR (INDIVIDUAL OR FIRM) 1982

AC1164'3.9 MILES ALONG PALM DRIVE FROM INTERSECTION OF U.S. HWY 1 AT FLORIDA

AC1164'CITY.

AC1164

AC1164

STATION RECOVERY (1987)

AC1164

AC1164'RECOVERY NOTE BY US POWER SQUADRON 1987 (TD)

AC1164'RECOVERED IN GOOD CONDITION.

AC1164

AC1164

STATION RECOVERY (1987)

AC1164

AC1164'RECOVERY NOTE BY US POWER SQUADRON 1987 (LEM)

AC1164'RECOVERED IN GOOD CONDITION.

AC1164

AC1164

STATION RECOVERY (1988)

AC1164

AC1164'RECOVERY NOTE BY US POWER SQUADRON 1988 (TD)

AC1164'RECOVERED IN GOOD CONDITION.

AC1164

AC1164

STATION RECOVERY (1989)

AC1164

AC1164'RECOVERY NOTE BY US POWER SQUADRON 1989 (TD)

AC1164'RECOVERED IN GOOD CONDITION.

AC1164

AC1164

STATION RECOVERY (1990)

AC1164

AC1164'RECOVERY NOTE BY US POWER SQUADRON 1990 (LEM)

AC1164'RECOVERED IN GOOD CONDITION.

AC1164

AC1164

STATION RECOVERY (1995)

AC1164

AC1164'RECOVERY NOTE BY US POWER SQUADRON 1995

AC1164'RECOVERED IN GOOD CONDITION.

AC1164

AC1164

STATION RECOVERY (2005)

AC1164

AC1164'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2005 (WJR)

DATASHEETS

AC1164'BY USING AC4311 (H 111) I FOUND AC1164 TO BE AT 25 26 52.87822(N)
AC1164'80 24 42.91739(W)

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

The NGS Data Sheet

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

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PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,   Retrieval Date = NOVEMBER 25, 2015
AC1168 *****
AC1168 DESIGNATION - F 59
AC1168 PID - AC1168
AC1168 STATE/COUNTY- FL/MIAMI-DADE
AC1168 COUNTRY - US
AC1168 USGS QUAD - ARSENICKER KEYS (1997)
AC1168
AC1168 *CURRENT SURVEY CONTROL
AC1168
AC1168* NAD 83(1986) POSITION- 25 26 52. (N) 080 22 03. (W) SCALED
AC1168* NAVD 88 ORTHO HEIGHT - 0.931 (meters) 3.05 (feet) ADJUSTED
AC1168
AC1168 GEOID HEIGHT - -25.247 (meters) GEOID12B
AC1168 DYNAMIC HEIGHT - 0.929 (meters) 3.05 (feet) COMP
AC1168 MODELED GRAVITY - 978,969.4 (mgal) NAVD 88
AC1168
AC1168 VERT ORDER - SECOND CLASS 0
AC1168
AC1168.The horizontal coordinates were scaled from a topographic map and have
AC1168.an estimated accuracy of +/- 6 seconds.
AC1168.
AC1168.The orthometric height was determined by differential leveling and
AC1168.adjusted by the NATIONAL GEODETIC SURVEY
AC1168.in June 1991.
AC1168
AC1168.Significant digits in the geoid height do not necessarily reflect accuracy.
AC1168.GEOID12B height accuracy estimate available here.
AC1168
AC1168.The dynamic height is computed by dividing the NAVD 88
AC1168.geopotential number by the normal gravity value computed on the
AC1168.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AC1168.degrees latitude (g = 980.6199 gals.).
AC1168
AC1168.The modeled gravity was interpolated from observed gravity values.
AC1168
AC1168; North East Units Estimated Accuracy
AC1168;SPC FL E - 123,590. 263,620. MT (+/- 180 meters Scaled)
AC1168
AC1168 SUPERSEDED SURVEY CONTROL
AC1168
AC1168 NGVD 29 (??/??/92) 1.396 (m) 4.58 (f) ADJ UNCH 2 0
AC1168
AC1168.Superseded values are not recommended for survey control.
AC1168
AC1168.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AC1168.See file dsdata.txt to determine how the superseded data were derived.
AC1168
AC1168_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ635146(NAD 83)
AC1168
AC1168_MARKER: Z = SEE DESCRIPTION
AC1168_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AC1168_STAMPING: DWC BM F 59
AC1168_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AC1168+STABILITY: SURFACE MOTION
AC1168

```


DATASHEETS

AC1168	HISTORY	- Date	Condition	Report By
AC1168	HISTORY	- UNK	MONUMENTED	FL-025
AC1168	HISTORY	- 1970	GOOD	NGS
AC1168	HISTORY	- 1982	GOOD	LOCSUR
AC1168	HISTORY	- 1987	GOOD	USPSQD
AC1168	HISTORY	- 1987	GOOD	USPSQD
AC1168	HISTORY	- 1988	GOOD	USPSQD
AC1168	HISTORY	- 1989	GOOD	USPSQD
AC1168	HISTORY	- 19901230	GOOD	USPSQD

AC1168

AC1168

STATION DESCRIPTION

AC1168

AC1168'DESCRIBED BY NATIONAL GEODETIC SURVEY 1970

AC1168'6.7 MI E FROM FLORIDA CITY.

AC1168'ABOUT 6.7 MILES EAST ALONG PALM DRIVE FROM THE INTERSECTION OF
 AC1168'U.S. HIGHWAY 1 AT FLORIDA CITY, ALONG THE NORTH BANK OF THE
 AC1168'FLORIDA CITY CANAL, 78 FEET EAST OF THE CENTER OF THE JUNCTION
 AC1168'OF THE NORTH LANE OF PALM DRIVE AND 109 TH STREET, 22 FEET SOUTH
 AC1168'OF THE CENTER LINE OF THE NORTH LANE OF PALM DRIVE, 5 1/2 FEET
 AC1168'EAST OF A 14-INCH TREE, 1.1 FEET NORTH OF A METAL WITNESS POST,
 AC1168'ABOUT LEVEL WITH THE DRIVE AND SET IN THE TOP OF A CONCRETE
 AC1168'POST PROJECTING 1 INCH ABOVE THE LEVEL OF THE GROUND.

AC1168

STATION RECOVERY (1982)

AC1168

AC1168'RECOVERY NOTE BY LOCAL SURVEYOR (INDIVIDUAL OR FIRM) 1982

AC1168'LOCATED ABOUT 6.7 MILES EAST ALONG PALM DRIVE FROM THE INTERSECTION
 AC1168'OF U.S. 1 AT FLORIDA CITY.

AC1168

STATION RECOVERY (1987)

AC1168

AC1168'RECOVERY NOTE BY US POWER SQUADRON 1987 (TD)

AC1168'RECOVERED IN GOOD CONDITION.

AC1168

STATION RECOVERY (1987)

AC1168

AC1168'RECOVERY NOTE BY US POWER SQUADRON 1987 (LEM)

AC1168'RECOVERED IN GOOD CONDITION.

AC1168

STATION RECOVERY (1988)

AC1168

AC1168'RECOVERY NOTE BY US POWER SQUADRON 1988 (TD)

AC1168'RECOVERED IN GOOD CONDITION.

AC1168

STATION RECOVERY (1989)

AC1168

AC1168'RECOVERY NOTE BY US POWER SQUADRON 1989 (TD)

AC1168'RECOVERED IN GOOD CONDITION.

AC1168

STATION RECOVERY (1990)

AC1168

AC1168'RECOVERY NOTE BY US POWER SQUADRON 1990 (LEM)

AC1168'RECOVERED IN GOOD CONDITION.

*** retrieval complete.

Elapsed Time = 00:00:01

The NGS Data Sheet

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

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PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,   Retrieval Date = NOVEMBER 25, 2015
AC1178 *****
AC1178 DESIGNATION - F 61 1
AC1178 PID - AC1178
AC1178 STATE/COUNTY- FL/MIAMI-DADE
AC1178 COUNTRY - US
AC1178 USGS QUAD - ARSENICKER KEYS (1997)
AC1178
AC1178 *CURRENT SURVEY CONTROL
AC1178
AC1178* NAD 83(1986) POSITION- 25 27 47. (N) 080 20 49. (W) SCALED
AC1178* NAVD 88 ORTHO HEIGHT - 2.174 (meters) 7.13 (feet) ADJUSTED
AC1178
AC1178 GEOID HEIGHT - -25.338 (meters) GEOID12B
AC1178 DYNAMIC HEIGHT - 2.170 (meters) 7.12 (feet) COMP
AC1178 MODELED GRAVITY - 978,968.0 (mgal) NAVD 88
AC1178
AC1178 VERT ORDER - SECOND CLASS 0
AC1178
AC1178.The horizontal coordinates were scaled from a topographic map and have
AC1178.an estimated accuracy of +/- 6 seconds.
AC1178.
AC1178.The orthometric height was determined by differential leveling and
AC1178.adjusted by the NATIONAL GEODETIC SURVEY
AC1178.in June 1991.
AC1178
AC1178.Significant digits in the geoid height do not necessarily reflect accuracy.
AC1178.GEOID12B height accuracy estimate available here.
AC1178
AC1178.The dynamic height is computed by dividing the NAVD 88
AC1178.geopotential number by the normal gravity value computed on the
AC1178.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AC1178.degrees latitude (g = 980.6199 gals.).
AC1178
AC1178.The modeled gravity was interpolated from observed gravity values.
AC1178
AC1178; North East Units Estimated Accuracy
AC1178;SPC FL E - 125,290. 265,670. MT (+/- 180 meters Scaled)
AC1178
AC1178 SUPERSEDED SURVEY CONTROL
AC1178
AC1178 NGVD 29 (??/??/92) 2.640 (m) 8.66 (f) ADJ UNCH 2 0
AC1178
AC1178.Superseded values are not recommended for survey control.
AC1178
AC1178.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AC1178.See file dsdata.txt to determine how the superseded data were derived.
AC1178
AC1178_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ656163(NAD 83)
AC1178
AC1178_MARKER: Z = SEE DESCRIPTION
AC1178_SETTING: 36 = SET IN A MASSIVE STRUCTURE
AC1178_SP_SET: BRIDGE
AC1178_STAMPING: F 61 1 (DC)
AC1178_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AC1178

```

DATASHEETS

AC1178	HISTORY	- Date	Condition	Report By
AC1178	HISTORY	- UNK	MONUMENTED	FL-025
AC1178	HISTORY	- 1970	GOOD	NGS
AC1178	HISTORY	- 1989	GOOD	USPSQD
AC1178	HISTORY	- 19901230	GOOD	USPSQD
AC1178	HISTORY	- 20050824	GOOD	WEIDEN
AC1178	HISTORY	- 20150410	GOOD	WANTGP

AC1178

AC1178

AC1178

STATION DESCRIPTION

AC1178'DESCRIBED BY NATIONAL GEODETIC SURVEY 1970

AC1178'9.2 MI SE FROM PRINCETON.

AC1178'ABOUT 4.0 MILES EAST ALONG COCONUT PALM DRIVE FROM THE

AC1178'INTERSECTION OF U.S. HIGHWAY 1 AT PRINCETON, THENCE 5.25 MILES

AC1178'SOUTH ALONG A GRAVELED ROAD, SET ON THE TOP OF THE NORTH WALKWAY

AC1178'OF A BRIDGE OVER A CANAL (NORTH CANAL), 17 FEET NORTH OF THE

AC1178'CENTER LINE OF NORTH CANAL DRIVE, NEAR THE MAIN ENTRANCE TO THE

AC1178'HOMESTEAD BAY FRONT PARK, 2 FEET WEST OF THE EAST END OF THE

AC1178'BRIDGE WALKWAY AND 1 FOOT ABOVE THE LEVEL OF THE ROAD.

AC1178'NOTE-- MARK MAY BE REACHED BY GOING 7.8 MILES EAST ALONG PALM

AC1178'DRIVE FROM THE INTERSECTION OF U.S. HIGHWAY 1 AT FLORIDA CITY,

AC1178'THENCE 1.1 MILES NORTH ALONG A GRAVELED ROAD TO INTERSECTION

AC1178'OF NORTH CANAL DRIVE AND MARK ON LEFT.

AC1178

AC1178

AC1178

STATION RECOVERY (1989)

AC1178'RECOVERY NOTE BY US POWER SQUADRON 1989 (TD)

AC1178'RECOVERED IN GOOD CONDITION.

AC1178

AC1178

AC1178

STATION RECOVERY (1990)

AC1178'RECOVERY NOTE BY US POWER SQUADRON 1990 (LEM)

AC1178'RECOVERED IN GOOD CONDITION.

AC1178

AC1178

AC1178

STATION RECOVERY (2005)

AC1178'RECOVERY NOTE BY WEIDENER SURVEYING AND MAPPING 2005

AC1178'RECOVERED IN GOOD CONDITION.

AC1178

AC1178

AC1178

STATION RECOVERY (2015)

AC1178'RECOVERY NOTE BY WANTMAN GROUP INC 2015 (JM)

AC1178'RECOVERED IN GOOD CONDITION.

*** retrieval complete.

Elapsed Time = 00:00:02

AC4311 NAD 27 - 25 26 50.99017(N) 080 24 43.95447(W) AD() 2
 AC4311 NGVD 29 (07/19/86) 1.95 (m) 6.4 (f) LEVELING 3
 AC4311

AC4311.Superseded values are not recommended for survey control.

AC4311

AC4311.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

AC4311.[See file dsdata.txt](#) to determine how the superseded data were derived.

AC4311

AC4311_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ5911914673 (NAD 83)

AC4311

AC4311_MARKER: DD = SURVEY DISK

AC4311_SETTING: 0 = UNSPECIFIED SETTING

AC4311_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AC4311+SATELLITE: SATELLITE OBSERVATIONS - June 17, 2005

AC4311

HISTORY	Date	Condition	Report By
HISTORY	1972	MONUMENTED	FL-025
HISTORY	19950910	GOOD	USPSQD
HISTORY	20050617	GOOD	INDIV

AC4311 HISTORY - 1972 MONUMENTED FL-025

AC4311 HISTORY - 19950910 GOOD USPSQD

AC4311 HISTORY - 20050617 GOOD INDIV

AC4311

AC4311 STATION DESCRIPTION

AC4311

AC4311'DESCRIBED BY DADE COUNTY FLORIDA 1972 (JCF)

AC4311'STATION IS ABOUT 5.2 MILES WEST OF THE SHORE OF BISCAYNE BAY, ABOUT

AC4311'4.4 MILES EAST SOUTHEAST OF THE HOMESTEAD CITY HALL, AT THE

AC4311'INTERSECTION OF S.W. 137TH AVENUE AND S.W. 344TH STREET AND IN

AC4311'THE VICINITY OF THE SECTION CORNER COMMON TO SECTIONS 22, 23, 26

AC4311'AND 27 OF TOWNSHIP 57 SOUTH, RANGE 39 EAST.

AC4311'

AC4311'TO REACH FROM THE MAIN INTERSECTION OF THE CITY OF HOMESTEAD AT

AC4311'KROME AVENUE AND MOWRY STREET, PROCEED SOUTH ON KROME AVENUE (STATE

AC4311'ROAD 27) FOR 1.5 MILES TO THE INTERSECTION OF PALM DRIVE (S.W.

AC4311'344TH STREET), TURN LEFT AND PROCEED EAST ON S.W. 344TH STREET FOR

AC4311'4.0 MILES TO THE INTERSECTION OF S.W. 137TH AVENUE (TALLAHASSEE

AC4311'ROAD) AND THE STATION IN THE SOUTHWEST QUADRANT OF THE

AC4311'INTERSECTION ON THE SOUTH SIDE OF FLORIDA CITY CANAL.

AC4311'

AC4311'STATION MARK IS A BRASS DISK IN A CONCRETE MONUMENT WITH

AC4311'UNDERGROUND MARK, FLUSH WITH THE SHOULDER OF THE ROAD, MARKED

AC4311'FLORIDA-DADE AND STAMPED H-111. IT IS 2.5 FEET SOUTH OF THE SOUTH

AC4311'EDGE OF PAVING ON S.W. 344TH STREET, 1.5 FEET NORTH OF A STEEL

AC4311'BARRICADE AND 40.5 FEET SOUTHWEST OF A 10 INCH CONCRETE MONUMENT

AC4311'IN THE CENTER OF THE INTERSECTION, SCRIBED RP 50 FT SO., MARKING

AC4311'THE SECTION CORNER OFFSET 50 FEET SOUTH.

AC4311'

AC4311'REFERENCE MARKS ARE SPIKES, CENTER PUNCHED AND DRIVEN THROUGH DADE

AC4311'COUNTY BRASS WASHERS INTO THE PAVING OF S.W. 344TH STREET.

AC4311'

AC4311'REFERENCE MARK 1 IS 4.00 FEET NORTHEAST OF THE STATION.

AC4311'

AC4311'REFERENCE MARK 2 IS 4.00 FEET NORTHWEST OF THE STATION.

AC4311'

AC4311'AZIMUTH MARK IS A SPIKE, CENTER PUNCHED AND DRIVEN THROUGH A DADE

AC4311'COUNTY BRASS WASHER INTO THE ASPHALT PAVING ON THE EAST EDGE OF

AC4311'S.W. 137TH AVENUE, 0.5 MILE NORTH OF THE STATION. IT IS 6.00 FEET

AC4311'EAST OF A STEEL PIPE IN A 10 INCH CONCRETE MONUMENT, SCRIBED 22

AC4311'AND 23 WHICH MARKS THE QUARTER CORNER COMMON TO SECTIONS 22 AND 23

AC4311'OF TOWNSHIP 57 SOUTH, RANGE 39 EAST.

AC4311

AC4311 STATION RECOVERY (1995)

AC4311

AC4311'RECOVERY NOTE BY US POWER SQUADRON 1995

AC4311'RECOVERED IN GOOD CONDITION.

AC4311

AC4311 STATION RECOVERY (2005)

AC4311

AC4311'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2005 (WJR)
AC4311'FOUND STATION MARK ELEVATION TO BE 1.65M OR 5.41' NGVD'29 DATUM. USED
AC4311'MIAMI-DADE COUNTY PWD BM - 8 E-S, ELEV. 6.47' NGVD'29, USGS BRASS DISC
AC4311'IN WEST END OF SOUTH CONC BRIDGE, 15' W/O SW 137 AVE, 37' N/O SW 344
AC4311'ST.

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

AC4251 NAD 27 - 25 28 55.33578(N) 080 22 18.64589(W) AD() 2

AC4251

AC4251.Superseded values are not recommended for survey control.

AC4251

AC4251.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

AC4251.[See file dsdata.txt](#) to determine how the superseded data were derived.

AC4251

AC4251_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ6316018516(NAD 83)

AC4251

AC4251_MARKER: DD = SURVEY DISK

AC4251_SETTING: 0 = UNSPECIFIED SETTING

AC4251_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AC4251+SATELLITE: SATELLITE OBSERVATIONS - August 24, 2005

AC4251

AC4251	HISTORY	- Date	Condition	Report By
AC4251	HISTORY	- 1972	MONUMENTED	FL-025
AC4251	HISTORY	- 20050824	GOOD	WEIDEN
AC4251	HISTORY	- 20110216	DESTROYED	NGS

AC4251

AC4251 STATION DESCRIPTION

AC4251

AC4251'DESCRIBED BY DADE COUNTY FLORIDA 1972 (JCF)

AC4251'STATION IS ABOUT 2.0 MILES WEST OF THE SHORE OF BISCAYNE BAY, ABOUT

AC4251'6.7 MILES EAST OF THE HOMESTEAD CITY HALL, ABOUT 0.5 MILE SOUTH OF

AC4251'THE HOMESTEAD AIR FORCE BASE SEWAGE DISPOSAL PLANT AND ABOUT 0.2

AC4251'MILE SOUTH OF THE CENTER OF SECTION 7, TOWNSHIP 57 SOUTH, RANGE 40

AC4251'EAST.

AC4251'

AC4251'TO REACH FROM THE GATE AT THE NORTHEAST CORNER OF THE LIVING AREA

AC4251'OF HOMESTEAD AIR FORCE BASE AT THE INTERSECTION OF S.W. 122ND AVENUE

AC4251'AND S.W. 268TH STREET (MOODY DRIVE), PROCEED EAST ON S.W. 268TH

AC4251'STREET FOR 1.5 MILES TO THE INTERSECTION OF S.W. 107TH AVENUE,

AC4251'TURN RIGHT AND PROCEED SOUTH ON S.W. 107TH AVENUE FOR 2.25 MILES

AC4251'TO THE INTERSECTION OF S.W. 304TH STREET (KINGS HIGHWAY), TURN

AC4251'RIGHT AND PROCEED WEST ON S.W. 304TH STREET FOR 0.5 MILE TO THE

AC4251'INTERSECTION OF S.W. 112TH AVENUE (ALLAPATTAH DRIVE), TURN LEFT

AC4251'AND PROCEED SOUTH ON S.W. 112TH AVENUE OF 0.2 MILE TO THE STATION

AC4251'ON THE RIGHT ON THE WEST SHOULDER OF THE ROADWAY ABOUT 0.05 MILE

AC4251'NORTH OF THE CENTER OF THE NORTHERLY OF TWO CONCRETE BOX CULVERTS

AC4251'PASSING UNDER S.W. 112TH AVENUE.

AC4251'

AC4251'STATION MARK IS A BRASS DISK IN A CONCRETE MONUMENT WITH

AC4251'UNDERGROUND MARK, FLUSH WITH THE SHOULDER OF THE ROAD, MARKED

AC4251'FLORIDA-DADE AND STAMPED H-098. IT IS 5.0 FEET WEST OF THE WEST

AC4251'EDGE OF PAVING ON S.W. 112TH AVENUE AND 224.5 FEET NORTH OF THE

AC4251'CENTER OF THE NORTHERLY OF 2 CONCRETE BOX CULVERTS PASSING UNDER

AC4251'S.W. 112TH AVENUE.

AC4251'

AC4251'REFERENCE MARKS ARE SPIKES, CENTER PUNCHED AND DRIVEN THROUGH DADE

AC4251'COUNTY BRASS WASHERS INTO THE ASPHALT PAVING OF S.W. 112TH AVENUE.

AC4251'

AC4251'REFERENCE MARK 1 IS 7.00 FEET NORTHEAST OF THE STATION.

AC4251'

AC4251'REFERENCE MARK 2 IS 7.00 FEET SOUTHEAST OF THE STATION AND THE

AC4251'DISTANCE BETWEEN THE REFERENCE MARKS IS 9.04 FEET.

AC4251'

AC4251'AZIMUTH MARK IS A BRASS PLUG IN A STEEL PIPE DRIVEN FLUSH WITH THE

AC4251'ASPHALT PAVING 0.45 MILE NORTH OF THE STATION. IT IS ON THE

AC4251'APPROACH TO A TIMBER BRIDGE OVER A CANAL ADJACENT TO A SEWAGE

AC4251'DISPOSAL PLAT, 17.8 FEET SOUTH OF THE SOUTH EDGE OF THE BRIDGE AND

AC4251'9.3 FEET EAST OF THE WEST EDGE OF THE BRIDGE.

AC4251

AC4251 STATION RECOVERY (2005)

AC4251

AC4251'RECOVERY NOTE BY WEIDENER SURVEYING AND MAPPING 2005

AC4251'RECOVERED IN GOOD CONDITION.

AC4251

AC4251

STATION RECOVERY (2011)

AC4251

AC4251'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 2011

AC4251'THIS REPORT WAS SUBMITTED BY JOSEPH M. LAKNER.

*** retrieval complete.

Elapsed Time = 00:00:02

The NGS Data Sheet

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

PROGRAM = datasheet95, VERSION = 8.8

*** retrieval complete.
 Elapsed Time = 00:00:02
 Msg=FATAL_ERROR - No Marks found

```
-----
- This listing contains control for which complete digital -
- data sheets were not provided. The complete data sheets were -
- not provided for the reason listed below. The reason below is -
- associated with a horizontal control Nonpub code shown under -
- the heading 'H' and/or a vertical control Nonpub code shown under -
- the heading 'v' -
- -
- The format of the records are as follows: -
- Pid = Station Permanent Identifier) -
- Name = Station Designation -
- Lat = Approx. Latitude (Degrees, Minutes, truncated Seconds) -
- Lon = Approx. Longitude (Degrees, Minutes, truncated Seconds) -
- O = Horizontal Order -
- o = Vertical Order -
- H = Horizontal Nonpub Code -
- v = Vertical Nonpub Code -
- -
- H Nonpub HORIZONTAL CONTROL NONPUB REASON -
- ----- -
- B Station is a RBN antenna -
- C Not a publishable datum within the state -
- D No descriptive text available -
- I No NAD83 coordinates available, only IGS08 coordinates -
- L CORS L1 Phase Center is not publishable -
- N No geodetic control -
- O Outside NGS publication area -
- P Purpose of position is not for network control -
- R Restricted position -
- T Station is a temporary point/bench mark -
- V Station is a VOR antenna -
- W Weakly determined position -
- X Surface mark reported destroyed -
- Y Surface and underground mark reported destroyed -
- -
- v Nonpub VERTICAL CONTROL NONPUB REASON -
- ----- -
- C Not a publishable datum within the state -
- D No descriptive text available -
- F Bench mark not yet adjusted -
- N No geodetic control -
- L CORS L1 Phase Center is not publishable -
- O Outside NGS publication area -
- R Restricted elevation -
- S Mark is in a subsidence area -
- T Station is a temporary point/bench mark -
- X Surface mark reported destroyed -
- Y Surface and underground mark reported destroyed -
- Z Presumed destroyed -
- -
```

-
- NOTE - Stations found in this listing may still have a valid
- datasheet produced by use of other publishable values.
- For example, an ADJUSTED height may be non-publishable
- but a good GPS height might be found on the datasheet.
- This listing does not imply that values found on the datasheet
- are restricted. If it's on the datasheet, use it.
-

Pid	Name	Lat	Lon	Elev	O	o	Hv
>AC4251	H 098	25 28 56.7/080	22 17.8		2		XX

The NGS Data Sheet

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

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,   Retrieval Date = NOVEMBER 28, 2015
AC2018 *****
AC2018 DESIGNATION - R 722
AC2018 PID - AC2018
AC2018 STATE/COUNTY- FL/MIAMI-DADE
AC2018 COUNTRY - US
AC2018 USGS QUAD - PERRINE (1994)
AC2018
AC2018 *CURRENT SURVEY CONTROL
AC2018
AC2018* NAD 83(1986) POSITION- 25 31 07. (N) 080 20 50. (W) SCALED
AC2018* NAVD 88 ORTHO HEIGHT - 1.624 (meters) 5.33 (feet) ADJUSTED
AC2018
AC2018 GEOID HEIGHT - -25.363 (meters) GEOID12B
AC2018 DYNAMIC HEIGHT - 1.621 (meters) 5.32 (feet) COMP
AC2018 MODELED GRAVITY - 978,980.0 (mgal) NAVD 88
AC2018
AC2018 VERT ORDER - SECOND CLASS 0
AC2018
AC2018.The horizontal coordinates were scaled from a topographic map and have
AC2018.an estimated accuracy of +/- 6 seconds.
AC2018.
AC2018.The orthometric height was determined by differential leveling and
AC2018.adjusted by the NATIONAL GEODETIC SURVEY
AC2018.in June 1991.
AC2018
AC2018.Significant digits in the geoid height do not necessarily reflect accuracy.
AC2018.GEOID12B height accuracy estimate available here.
AC2018
AC2018.The dynamic height is computed by dividing the NAVD 88
AC2018.geopotential number by the normal gravity value computed on the
AC2018.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AC2018.degrees latitude (g = 980.6199 gals.).
AC2018
AC2018.The modeled gravity was interpolated from observed gravity values.
AC2018
AC2018; North East Units Estimated Accuracy
AC2018;SPC FL E - 131,450. 265,620. MT (+/- 180 meters Scaled)
AC2018
AC2018 SUPERSEDED SURVEY CONTROL
AC2018
AC2018 NGVD 29 (??/??/92) 2.089 (m) 6.85 (f) ADJ UNCH 2 0
AC2018
AC2018.Superseded values are not recommended for survey control.
AC2018
AC2018.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AC2018.See file dsdata.txt to determine how the superseded data were derived.
AC2018
AC2018_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ655225(NAD 83)
AC2018
AC2018_MARKER: Z = SEE DESCRIPTION
AC2018_SETTING: 36 = SET IN A MASSIVE STRUCTURE
AC2018_SP_SET: ABUTMENT
AC2018_STAMPING: R 722 DC BM
AC2018_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AC2018_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

```

AC2018+SATELLITE: SATELLITE OBSERVATIONS - May 03, 2010

AC2018

AC2018	HISTORY	- Date	Condition	Report By
AC2018	HISTORY	- UNK	MONUMENTED	FL-025
AC2018	HISTORY	- 1970	GOOD	NGS
AC2018	HISTORY	- 1987	GOOD	USPSQD
AC2018	HISTORY	- 1989	GOOD	USPSQD
AC2018	HISTORY	- 20100503	GOOD	GPI
AC2018	HISTORY	- 20150410	GOOD	WANTGP

AC2018

AC2018 STATION DESCRIPTION

AC2018

AC2018'DESCRIBED BY NATIONAL GEODETIC SURVEY 1970

AC2018'5.4 MI SE FROM PRINCETON.

AC2018'ABOUT 4.0 MILES EAST ALONG COCONUT PALM DRIVE FROM THE INTERSECTION

AC2018'OF U.S. HIGHWAY 1 AT PRINCETON, THENCE 1.35 MILES SOUTH ALONG

AC2018'A GRAVELED ROAD, SET ON THE TOP OF THE WEST END OF THE NORTH

AC2018'CONCRETE ABUTMENT FOR A LARGE FLOOD CONTROL GATE, ABOUT IN LINE

AC2018'WITH THE EXTENDED LINE OF MOODY DRIVE LEADING WESTERLY, 1.2 FEET

AC2018'WEST OF A HIGH HURRICANE FENCE AROUND THE FLOOD GATES, 30.5 FEET

AC2018'SOUTH OF THE SOUTH GATE POST AT NORTH ENTRANCE TO GATES, 2.2 FEET

AC2018'EAST OF THE WEST END OF THE ABUTMENT AND ABOUT LEVEL WITH THE

AC2018'FLOORING ACROSS FLOOD GATES. IN SECTION 32 OR 33, R 40 E, T 56 S.

AC2018

AC2018 STATION RECOVERY (1987)

AC2018

AC2018'RECOVERY NOTE BY US POWER SQUADRON 1987 (LEM)

AC2018'RECOVERED IN GOOD CONDITION.

AC2018

AC2018 STATION RECOVERY (1989)

AC2018

AC2018'RECOVERY NOTE BY US POWER SQUADRON 1989 (TD)

AC2018'RECOVERED IN GOOD CONDITION.

AC2018

AC2018 STATION RECOVERY (2010)

AC2018

AC2018'RECOVERY NOTE BY GREENMAN PEDERSEN INCORPORATED 2010 (KAW)

AC2018'RECOVERED IN GOOD CONDITION.

AC2018

AC2018 STATION RECOVERY (2015)

AC2018

AC2018'RECOVERY NOTE BY WANTMAN GROUP INC 2015 (JM)

AC2018'RECOVERED IN GOOD CONDITION.

*** retrieval complete.

Elapsed Time = 00:00:02

The NGS Data Sheet

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

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,   Retrieval Date = NOVEMBER 25, 2015
AC1181 *****
AC1181 DESIGNATION - R 724
AC1181 PID - AC1181
AC1181 STATE/COUNTY- FL/MIAMI-DADE
AC1181 COUNTRY - US
AC1181 USGS QUAD - ARSENICKER KEYS (1997)
AC1181
AC1181 *CURRENT SURVEY CONTROL
AC1181
AC1181 *-----
AC1181 * NAD 83(1986) POSITION- 25 29 21. (N) 080 20 48. (W) SCALED
AC1181 * NAVD 88 ORTHO HEIGHT - 1.624 (meters) 5.33 (feet) ADJUSTED
AC1181 *-----
AC1181 GEOID HEIGHT - -25.363 (meters) GEOID12B
AC1181 DYNAMIC HEIGHT - 1.621 (meters) 5.32 (feet) COMP
AC1181 MODELED GRAVITY - 978,971.0 (mgal) NAVD 88
AC1181
AC1181 VERT ORDER - SECOND CLASS 0
AC1181
AC1181.The horizontal coordinates were scaled from a topographic map and have
AC1181.an estimated accuracy of +/- 6 seconds.
AC1181.
AC1181.The orthometric height was determined by differential leveling and
AC1181.adjusted by the NATIONAL GEODETIC SURVEY
AC1181.in June 1991.
AC1181
AC1181.Significant digits in the geoid height do not necessarily reflect accuracy.
AC1181.GEOID12B height accuracy estimate available here.
AC1181
AC1181.The dynamic height is computed by dividing the NAVD 88
AC1181.geopotential number by the normal gravity value computed on the
AC1181.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AC1181.degrees latitude (g = 980.6199 gals.).
AC1181
AC1181.The modeled gravity was interpolated from observed gravity values.
AC1181
AC1181; North East Units Estimated Accuracy
AC1181;SPC FL E - 128,190. 265,690. MT (+/- 180 meters Scaled)
AC1181
AC1181 SUPERSEDED SURVEY CONTROL
AC1181
AC1181 NGVD 29 (??/??/92) 2.089 (m) 6.85 (f) ADJ UNCH 2 0
AC1181
AC1181.Superseded values are not recommended for survey control.
AC1181
AC1181.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AC1181.See file dsdata.txt to determine how the superseded data were derived.
AC1181
AC1181_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ656192(NAD 83)
AC1181
AC1181_MARKER: Z = SEE DESCRIPTION
AC1181_SETTING: 36 = SET IN A MASSIVE STRUCTURE
AC1181_SP_SET: BRIDGE ABUTMENT
AC1181_STAMPING: R 724 DC
AC1181_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AC1181_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

```

AC1181+SATELLITE: SATELLITE OBSERVATIONS - May 03, 2010

AC1181

AC1181	HISTORY	- Date	Condition	Report By
AC1181	HISTORY	- UNK	MONUMENTED	FL-025
AC1181	HISTORY	- 1970	GOOD	NGS
AC1181	HISTORY	- 20050824	GOOD	WEIDEN
AC1181	HISTORY	- 20100503	GOOD	GPI
AC1181	HISTORY	- 20150410	GOOD	WANTGP

AC1181

AC1181 STATION DESCRIPTION

AC1181

AC1181'DESCRIBED BY NATIONAL GEODETIC SURVEY 1970

AC1181'7.4 MI SE FROM PRINCETON.

AC1181'ABOUT 4.0 MILES EAST ALONG COCONUT PALM DRIVE FROM THE

AC1181'INTERSECTION OF U.S. HIGHWAY 1 AT PRINCETON, THENCE 3.4 MILES

AC1181'SOUTH ALONG A GRAVELED ROAD SET ON THE TOP OF THE NORTH ABUTMENT

AC1181'FOR THE FLOOD CONTROL GATE ACROSS MILITARY CANAL, 26 FEET SOUTH

AC1181'OF THE NORTHWEST CORNER OF THE HURRICANE FENCE AROUND THE FLOOD

AC1181'CONTROL GATE, 2.4 FEET EAST OF THE WEST END OF THE ABUTMENT,

AC1181'1.8 FEET WEST OF THE WEST FENCE LINE AROUND THE GATE AND LEVEL

AC1181'WITH THE GROUND.

AC1181

AC1181 STATION RECOVERY (2005)

AC1181

AC1181'RECOVERY NOTE BY WEIDENER SURVEYING AND MAPPING 2005

AC1181'RECOVERED IN GOOD CONDITION.

AC1181

AC1181 STATION RECOVERY (2010)

AC1181

AC1181'RECOVERY NOTE BY GREENMAN PEDERSEN INCORPORATED 2010 (KAW)

AC1181'RECOVERED IN GOOD CONDITION.

AC1181

AC1181 STATION RECOVERY (2015)

AC1181

AC1181'RECOVERY NOTE BY WANTMAN GROUP INC 2015 (JM)

AC1181'RECOVERED IN GOOD CONDITION.

*** retrieval complete.

Elapsed Time = 00:00:02

The NGS Data Sheet

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

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,      Retrieval Date = NOVEMBER 25, 2015
AC1180 *****
AC1180 DESIGNATION - R 725
AC1180 PID - AC1180
AC1180 STATE/COUNTY- FL/MIAMI-DADE
AC1180 COUNTRY - US
AC1180 USGS QUAD - ARSENICKER KEYS (1997)
AC1180
AC1180 *CURRENT SURVEY CONTROL
AC1180
AC1180 *-----
AC1180* NAD 83(1986) POSITION- 25 28 13. (N) 080 20 49. (W) SCALED
AC1180* NAVD 88 ORTHO HEIGHT - 1.603 (meters) 5.26 (feet) ADJUSTED
AC1180
AC1180 GEOID HEIGHT - -25.347 (meters) GEOID12B
AC1180 DYNAMIC HEIGHT - 1.600 (meters) 5.25 (feet) COMP
AC1180 MODELED GRAVITY - 978,967.4 (mgal) NAVD 88
AC1180
AC1180 VERT ORDER - SECOND CLASS 0
AC1180
AC1180.The horizontal coordinates were scaled from a topographic map and have
AC1180.an estimated accuracy of +/- 6 seconds.
AC1180.
AC1180.The orthometric height was determined by differential leveling and
AC1180.adjusted by the NATIONAL GEODETIC SURVEY
AC1180.in June 1991.
AC1180
AC1180.Significant digits in the geoid height do not necessarily reflect accuracy.
AC1180.GEOID12B height accuracy estimate available here.
AC1180
AC1180.The dynamic height is computed by dividing the NAVD 88
AC1180.geopotential number by the normal gravity value computed on the
AC1180.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AC1180.degrees latitude (g = 980.6199 gals.).
AC1180
AC1180.The modeled gravity was interpolated from observed gravity values.
AC1180
AC1180; North East Units Estimated Accuracy
AC1180;SPC FL E - 126,100. 265,670. MT (+/- 180 meters Scaled)
AC1180
AC1180 SUPERSEDED SURVEY CONTROL
AC1180
AC1180 NGVD 29 (??/??/92) 2.068 (m) 6.78 (f) ADJ UNCH 2 0
AC1180
AC1180.Superseded values are not recommended for survey control.
AC1180
AC1180.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AC1180.See file dsdata.txt to determine how the superseded data were derived.
AC1180
AC1180_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ656171(NAD 83)
AC1180
AC1180_MARKER: Z = SEE DESCRIPTION
AC1180_SETTING: 36 = SET IN A MASSIVE STRUCTURE
AC1180_SP_SET: BRIDGE ABUTMENT
AC1180_STAMPING: R 725 DC
AC1180_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AC1180_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

```


AC1180+SATELLITE: SATELLITE OBSERVATIONS - May 03, 2010

AC1180

AC1180	HISTORY	- Date	Condition	Report By
AC1180	HISTORY	- UNK	MONUMENTED	FL-025
AC1180	HISTORY	- 1970	GOOD	NGS
AC1180	HISTORY	- 1989	GOOD	USPSQD
AC1180	HISTORY	- 19901230	GOOD	USPSQD
AC1180	HISTORY	- 20050824	GOOD	WEIDEN
AC1180	HISTORY	- 20060901	GOOD	INHURC
AC1180	HISTORY	- 20100503	GOOD	GPI
AC1180	HISTORY	- 20150410	GOOD	WANTGP

AC1180

AC1180 STATION DESCRIPTION

AC1180

AC1180'DESCRIBED BY NATIONAL GEODETIC SURVEY 1970

AC1180'8.7 MI SE FROM PRINCETON.

AC1180'ABOUT 4.0 MILES EAST ALONG COCONUT PALM DRIVE FROM THE

AC1180'INTERSECTION OF U.S. HIGHWAY 1 AT PRINCETON, THENCE 4.7 MILES

AC1180'SOUTH ALONG A GRAVELED ROAD, SET ON THE TOP OF THE WEST END OF

AC1180'THE SOUTH CONCRETE ABUTMENT FOR THE FLOOD CONTROL GATES OVER

AC1180'MOWRY CANAL, 2.3 FEET NORTHWEST OF THE SOUTHWEST CORNER OF THE

AC1180'HURRICANE FENCE AROUND THE GATES, 2.3 FEET EAST OF THE WEST

AC1180'END OF THE ABUTMENT, 18 1/2 FEET WEST OF THE CENTER LINE OF A

AC1180'ROAD AT SOUTH ENTRANCE TO GATES FOR FLOOD CONTROL GATES AND LEVEL

AC1180'WITH THE GROUND.

AC1180

AC1180 STATION RECOVERY (1989)

AC1180

AC1180'RECOVERY NOTE BY US POWER SQUADRON 1989 (TD)

AC1180'RECOVERED IN GOOD CONDITION.

AC1180

AC1180 STATION RECOVERY (1990)

AC1180

AC1180'RECOVERY NOTE BY US POWER SQUADRON 1990 (LEM)

AC1180'RECOVERED IN GOOD CONDITION.

AC1180

AC1180 STATION RECOVERY (2005)

AC1180

AC1180'RECOVERY NOTE BY WEIDENER SURVEYING AND MAPPING 2005

AC1180'RECOVERED IN GOOD CONDITION.

AC1180

AC1180 STATION RECOVERY (2006)

AC1180

AC1180'RECOVERY NOTE BY INTERNATIONAL HURRICANE CENTER 2006 (WRV)

AC1180'RECOVERED IN GOOD CONDITION.

AC1180

AC1180 STATION RECOVERY (2010)

AC1180

AC1180'RECOVERY NOTE BY GREENMAN PEDERSEN INCORPORATED 2010 (KAW)

AC1180'RECOVERED IN GOOD CONDITION.

AC1180

AC1180 STATION RECOVERY (2015)

AC1180

AC1180'RECOVERY NOTE BY WANTMAN GROUP INC 2015 (JM)

AC1180'RECOVERED IN GOOD CONDITION.

*** retrieval complete.

Elapsed Time = 00:00:03

The NGS Data Sheet

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

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,   Retrieval Date = NOVEMBER 25, 2015
AC1165 *****
AC1165 DESIGNATION - V 314
AC1165 PID - AC1165
AC1165 STATE/COUNTY- FL/MIAMI-DADE
AC1165 COUNTRY - US
AC1165 USGS QUAD - HOMESTEAD (1994)
AC1165
AC1165 *CURRENT SURVEY CONTROL
AC1165
AC1165* NAD 83(1986) POSITION- 25 26 53. (N) 080 24 13. (W) SCALED
AC1165* NAVD 88 ORTHO HEIGHT - 1.882 (meters) 6.17 (feet) ADJUSTED
AC1165
AC1165 GEOID HEIGHT - -25.126 (meters) GEOID12B
AC1165 DYNAMIC HEIGHT - 1.879 (meters) 6.16 (feet) COMP
AC1165 MODELED GRAVITY - 978,970.6 (mgal) NAVD 88
AC1165
AC1165 VERT ORDER - SECOND CLASS 0
AC1165
AC1165.The horizontal coordinates were scaled from a topographic map and have
AC1165.an estimated accuracy of +/- 6 seconds.
AC1165.
AC1165.The orthometric height was determined by differential leveling and
AC1165.adjusted by the NATIONAL GEODETIC SURVEY
AC1165.in June 1991.
AC1165
AC1165.Significant digits in the geoid height do not necessarily reflect accuracy.
AC1165.GEOID12B height accuracy estimate available here.
AC1165
AC1165.The dynamic height is computed by dividing the NAVD 88
AC1165.geopotential number by the normal gravity value computed on the
AC1165.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AC1165.degrees latitude (g = 980.6199 gals.).
AC1165
AC1165.The modeled gravity was interpolated from observed gravity values.
AC1165
AC1165; North East Units Estimated Accuracy
AC1165;SPC FL E - 123,610. 259,980. MT (+/- 180 meters Scaled)
AC1165
AC1165 SUPERSEDED SURVEY CONTROL
AC1165
AC1165 NGVD 29 (??/??/92) 2.348 (m) 7.70 (f) ADJ UNCH 2 0
AC1165
AC1165.Superseded values are not recommended for survey control.
AC1165
AC1165.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AC1165.See file dsdata.txt to determine how the superseded data were derived.
AC1165
AC1165_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ599146(NAD 83)
AC1165
AC1165_MARKER: DB = BENCH MARK DISK
AC1165_SETTING: 30 = SET IN A LIGHT STRUCTURE
AC1165_SP_SET: CONCRETE BLOCK
AC1165_STAMPING: V 314 1970
AC1165_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
AC1165

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DATASHEETS

AC1165	HISTORY	- Date	Condition	Report By
AC1165	HISTORY	- 1970	MONUMENTED	NGS
AC1165	HISTORY	- 1982	GOOD	LOCSUR
AC1165	HISTORY	- 1987	GOOD	USPSQD
AC1165	HISTORY	- 1987	GOOD	USPSQD
AC1165	HISTORY	- 1988	GOOD	USPSQD
AC1165	HISTORY	- 1989	GOOD	USPSQD
AC1165	HISTORY	- 19901230	GOOD	USPSQD
AC1165	HISTORY	- 19950910	GOOD	USPSQD

AC1165

AC1165 STATION DESCRIPTION

AC1165

AC1165'DESCRIBED BY NATIONAL GEODETIC SURVEY 1970

AC1165'4.4 MI E FROM FLORIDA CITY.

AC1165'ABOUT 4.4 MILES EAST ALONG PALM DRIVE FROM THE INTERSECTION OF
 AC1165'U.S. HIGHWAY 1 AT FLORIDA CITY, AT THE SOUTHWEST CORNER OF A
 AC1165'BRIDGE OVER THE FLORIDA CITY CANAL, BETWEEN THE TWO LANES OF
 AC1165'PALM DRIVE, SET IN THE TOP OF A CONCRETE BLOCK WHICH IS 8 1/2
 AC1165'FEET LONG-5 FEET WIDE AND 4 FEET HIGH AND SET ON A LONG BLOCK OF
 AC1165'CONCRETE, 39.7 FEET NORTH OF THE CENTER LINE OF THE SOUTH LANE
 AC1165'OF PALM DRIVE AND ABOUT LEVEL WITH PALM DRIVE.

AC1165

AC1165 STATION RECOVERY (1982)

AC1165

AC1165'RECOVERY NOTE BY LOCAL SURVEYOR (INDIVIDUAL OR FIRM) 1982

AC1165'RECOVERED IN GOOD CONDITION.

AC1165

AC1165 STATION RECOVERY (1987)

AC1165

AC1165'RECOVERY NOTE BY US POWER SQUADRON 1987 (TD)

AC1165'RECOVERED IN GOOD CONDITION.

AC1165

AC1165 STATION RECOVERY (1987)

AC1165

AC1165'RECOVERY NOTE BY US POWER SQUADRON 1987 (LEM)

AC1165'RECOVERED IN GOOD CONDITION.

AC1165

AC1165 STATION RECOVERY (1988)

AC1165

AC1165'RECOVERY NOTE BY US POWER SQUADRON 1988 (TD)

AC1165'RECOVERED IN GOOD CONDITION.

AC1165

AC1165 STATION RECOVERY (1989)

AC1165

AC1165'RECOVERY NOTE BY US POWER SQUADRON 1989 (TD)

AC1165'RECOVERED IN GOOD CONDITION.

AC1165

AC1165 STATION RECOVERY (1990)

AC1165

AC1165'RECOVERY NOTE BY US POWER SQUADRON 1990 (LEM)

AC1165'RECOVERED IN GOOD CONDITION.

AC1165

AC1165 STATION RECOVERY (1995)

AC1165

AC1165'RECOVERY NOTE BY US POWER SQUADRON 1995

AC1165'RECOVERED IN GOOD CONDITION.

*** retrieval complete.

Elapsed Time = 00:00:02

JOB# 1804-C		PARTY CHIEF		SH	DATE: July 6, 2005		FIELD BOOK Various			PAGE		
STATION	3 WIRE	AVG.	HI	3 WIRE	AVG.	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. EL.	METRIC
	5.957											
CD 18 2	5.059	5.059	19.699				14.640		NAVD88			
DADE CO	4.161											
	15.177											
		179.600										
	7.110											
TP-1	6.224	6.224	19.693	6.230	6.230	13.469		357.00	0.000494163	0.000494163	13.469	4.105
	5.338			5.343								
	18.672			18.690								
		177.200			177.400							
	5.703			7.110								
TP-2	4.478	4.478	17.947	6.224	6.224	13.469		354.40	0.000490564	0.000490564	13.469	4.105
	3.253			5.338								
	13.434			18.672								
		245.000			177.200							
	5.786			6.922								
TP-3	4.562	4.562	16.867	5.642	5.642	12.305		501.00	0.000693489	0.000693489	12.304	3.750
	3.338			4.362								
	13.686			16.926								
		244.800			256.000							
	5.193			6.794								
TP-4	3.986	3.986	15.244	5.609	5.609	11.258		481.80	0.000666912	0.000666912	11.257	3.431
	2.779			4.424								
	11.958			16.827								
		241.400			237.000							
	5.852			6.345								
TP-5	4.590	4.590	14.754	5.080	5.080	10.164		494.40	0.000684354	0.000684354	10.163	3.098
	3.328			3.815								
	13.770			15.240								
		252.400			253.000							
	5.851			6.386								
TP-6	4.637	4.637	14.236	5.155	5.155	9.599		498.60	0.000690167	0.000690167	9.598	2.926
	3.423			3.924								

JOB# 1804-C		PARTY CHIEF		SH	DATE: July 6, 2005			FIELD BOOK Various			PAGE	
STATION	3 WIRE	AVG.	HI	3 WIRE	AVG.	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. EL.	METRIC
	13.911			15.465								
		242.800			246.200							
	5.919			5.667								
TP-7	4.696	4.696	14.548	4.384	4.384	9.852		499.40	0.000691275	0.000691275	9.851	3.003
	3.473			3.101								
	14.088			13.152								
		244.600			256.600							
	5.910			5.430								
TP-8	4.651	4.651	15.011	4.188	4.188	10.360		493.00	0.000682416	0.000682416	10.359	3.158
	3.392			2.946								
	13.953			12.564								
		251.800			248.400							
	6.410			5.722								
TP-9	5.173	5.173	15.726	4.458	4.458	10.553		504.60	0.000698472	0.000698472	10.552	3.216
	3.936			3.194								
	15.519			13.374								
		247.400			252.800							
	6.227			6.160								
TP-10	4.898	4.898	15.712	4.912	4.912	10.814		497.00	0.000687952	0.000687952	10.813	3.296
	3.569			3.664								
	14.694			14.736								
		265.800			249.600							
	6.387			5.727								
TP-11	5.157	5.157	16.450	4.419	4.419	11.293		527.40	0.000730032	0.000730032	11.292	3.442
	3.927			3.111								
	15.471			13.257								
		246.000			261.600							
	5.260			5.752								
TP-12	4.029	4.029	15.986	4.493	4.493	11.957		497.80	0.000689060	0.000689060	11.956	3.644
	2.798			3.234								
	12.087			13.479								
		246.200			251.800							

JOB# 1804-C		PARTY CHIEF		SH	DATE: July 6, 2005			FIELD BOOK Various			PAGE	
STATION	3 WIRE	AVG.	HI	3 WIRE	AVG.	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. EL.	METRIC
	5.631			5.756								
TP-13	4.376	4.376	15.849	4.513	4.513	11.473		494.80	0.000684907	0.000684907	11.472	3.497
	3.121			3.270								
	13.128			13.539								
		251.000			248.600							
	6.188			5.835								
TP-14	4.946	4.946	16.235	4.560	4.560	11.289		506.00	0.000700410	0.000700410	11.288	3.441
	3.704			3.285								
	14.838			13.680								
		248.400			255.000							
	6.081			5.804								
TP-15	4.834	4.834	16.554	4.515	4.515	11.720		506.20	0.000700687	0.000700687	11.719	3.572
	3.587			3.226								
	14.502			13.545								
		249.400			257.800							
	5.434			6.143								
TP-16	4.197	4.197	15.872	4.879	4.879	11.675		502.20	0.000695150	0.000695150	11.674	3.558
	2.960			3.615								
	12.591			14.637								
		247.400			252.800							
	5.681			6.276								
TP-17	4.447	4.447	15.301	5.018	5.018	10.854		499.00	0.000690721	0.000690721	10.853	3.308
	3.213			3.760								
	13.341			15.054								
		246.800			251.600							
	6.445			5.896								
TP-18	5.184	5.184	15.857	4.628	4.628	10.673		500.40	0.000692659	0.000692659	10.672	3.253
	3.923			3.360								
	15.552			13.884								
		252.200			253.600							
	4.852			6.627								
TP-19	3.587	3.587	14.075	5.369	5.369	10.488		503.80	0.000697365	0.000697365	10.487	3.197
	2.322			4.111								

JOB# 1804-C		PARTY CHIEF		SH	DATE: July 6, 2005			FIELD BOOK Various			PAGE	
STATION	3 WIRE	AVG.	HI	3 WIRE	AVG.	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. EL.	METRIC
	10.761			16.107								
		253.000			251.600							
	5.830			6.301								
TP-20	4.578	4.578	13.618	5.035	5.035	9.040		506.20	0.000700687	0.000700687	9.039	2.755
	3.326			3.769								
	13.734			15.105								
		250.400			253.200							
	4.710			6.330								
TP-21	3.476	3.476	12.019	5.075	5.075	8.543		501.40	0.000694043	0.000694043	8.542	2.604
	2.242			3.820								
	10.428			15.225								
		246.800			251.000							
	5.452			5.935								
TP-22	4.189	4.189	11.515	4.693	4.693	7.326		495.20	0.000685461	0.000685461	7.325	2.233
	2.926			3.451								
	12.567			14.079								
		252.600			248.400							
	7.069			5.784								
TP-23	5.837	5.837	12.830	4.522	4.522	6.993		505.00	0.000699026	0.000699026	6.992	2.131
	4.605			3.260								
	17.511			13.566								
		246.400			252.400							
	5.829			5.272								
TP-24	4.576	4.576	13.384	4.022	4.022	8.808		496.40	0.000687122	0.000687122	8.807	2.684
	3.323			2.772								
	13.728			12.066								
		250.600			250.000							
	6.440			6.329								
TP-25	5.192	5.192	13.519	5.057	5.057	8.327		505.00	0.000699026	0.000699026	8.326	2.538
	3.944			3.785								
	15.576			15.171								
		249.600			254.400							

JOB# 1804-C		PARTY CHIEF		SH	DATE: July 6, 2005		FIELD BOOK Various			PAGE		
STATION	3 WIRE	AVG.	HI	3 WIRE	AVG.	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. EL.	METRIC
	6.011			5.871								
TP-26	4.763	4.763	13.662	4.620	4.620	8.899		499.80	0.000691828	0.000691828	8.898	2.712
	3.515			3.369								
	14.289			13.860								
		249.600			250.200							
	5.143			6.908								
TP-27	4.037	4.037	12.046	5.653	5.653	8.009		500.60	0.000692936	0.000692936	8.008	2.441
	2.931			4.398								
	12.111			16.959								
		221.200			251.000							
	5.244			6.483								
TP-28	4.133	4.133	10.794	5.385	5.385	6.661		440.80	0.000610160	0.000610160	6.660	2.030
	3.022			4.287								
	12.399			16.155								
		222.200			219.600							
	7.335			6.497								
TP-29	6.058	6.058	11.486	5.366	5.366	5.428		448.40	0.000620680	0.000620680	5.427	1.654
	4.781			4.235								
	18.174			16.098								
		255.400			226.200							
	5.896			4.528								
TP-30	4.604	4.604	12.819	3.271	3.271	8.215		506.80	0.000701518	0.000701518	8.214	2.504
	3.312			2.014								
	13.812			9.813								
		258.400			251.400							
	6.172			5.982								
TP-31	4.897	4.897	13.013	4.703	4.703	8.116		514.20	0.000711761	0.000711761	8.115	2.474
	3.622			3.424								
	14.691			14.109								
		255.000			255.800							
	5.507			6.670								
TP-32	4.214	4.214	11.810	5.417	5.417	7.596		505.60	0.000699857	0.000699857	7.595	2.315
	2.921			4.164								

JOB# 1804-C		PARTY CHIEF		SH	DATE: July 6, 2005		FIELD BOOK Various			PAGE		
STATION	3 WIRE	AVG.	HI	3 WIRE	AVG.	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. EL.	METRIC
	12.642			16.251								
		258.600			250.600							
	5.974			7.724								
TP-33	4.679	4.679	10.040	6.449	6.449	5.361		513.60	0.000710930	0.000710930	5.360	1.634
	3.384			5.174								
	14.037			19.347								
		259.000			255.000							
	5.289			5.133								
TP-34	3.989	3.989	10.193	3.836	3.836	6.204		518.40	0.000717575	0.000717575	6.203	1.891
	2.689			2.539								
	11.967			11.508								
		260.000			259.400							
	5.057			6.250								
TP-35	3.807	3.807	9.056	4.944	4.944	5.249		521.20	0.000721450	0.000721450	5.248	1.600
	2.557			3.638								
	11.421			14.832								
		250.000			261.200							
	6.129			6.657								
TP-36	4.854	4.854	8.508	5.402	5.402	3.654		501.00	0.000693489	0.000693489	3.653	1.114
	3.579			4.147								
	14.562			16.206								
		255.000			251.000							
	6.416			6.275								
TP-37	5.167	5.167	8.655	5.020	5.020	3.488		506.00	0.000700410	0.000700410	3.487	1.063
	3.918			3.765								
	15.501			15.060								
		249.800			251.000							
	6.026			6.199								
TP-38	4.755	4.755	8.480	4.930	4.930	3.725		503.60	0.000697088	0.000697088	3.724	1.135
	3.484			3.661								
	14.265			14.790								
		254.200			253.800							

JOB# 1804-C		PARTY CHIEF		SH		DATE: July 6, 2005		FIELD BOOK Various		PAGE		
STATION	3 WIRE	AVG.	HI	3 WIRE	AVG.	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. EL.	METRIC
	7.396			6.235								
TP-39	6.147	6.147	9.632	4.995	4.995	3.485		502.20	0.000695150	0.000695150	3.484	1.062
	4.898			3.755								
	18.441			14.985								
		249.800			248.000							
	3.530			4.669								
TP-40	2.263	2.263	8.604	3.291	3.291	6.341		525.40	0.000727264	0.000727264	6.340	1.933
	0.996			1.913								
	6.789			9.873								
		253.400			275.600							
	6.410			6.536								
TP-41	5.161	5.161	8.526	5.239	5.239	3.365		512.80	0.000709823	0.000709823	3.364	1.025
	3.912			3.942								
	15.483			15.717								
		249.800			259.400							
	6.005			6.115								
TP-42	4.744	4.744	8.430	4.840	4.840	3.686		504.80	0.000698749	0.000698749	3.685	1.123
	3.483			3.565								
	14.232			14.520								
		252.200			255.000							
	6.317			5.860								
TP-43	5.069	5.069	8.913	4.586	4.586	3.844		507.00	0.000701795	0.000701795	3.843	1.171
	3.821			3.312								
	15.207			13.758								
		249.600			254.800							
	6.522			6.274								
TP-44	5.248	5.248	9.169	4.992	4.992	3.921		506.00	0.000700410	0.000700410	3.920	1.195
	3.974			3.710								
	15.744			14.976								
		254.800			256.400							
	5.734			6.091								
TP-45	4.497	4.497	8.850	4.816	4.816	4.353		509.80	0.000705670	0.000705670	4.352	1.327
	3.260			3.541								

JOB# 1804-C		PARTY CHIEF		SH	DATE: July 6, 2005		FIELD BOOK Various			PAGE		
STATION	3 WIRE	AVG.	HI	3 WIRE	AVG.	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. EL.	METRIC
	13.491			14.448								
		247.400			255.000							
	6.066			5.911								
TP-46	4.791	4.791	9.016	4.625	4.625	4.225		504.60	0.000698472	0.000698472	4.224	1.288
	3.516			3.339								
	14.373			13.875								
		255.000			257.200							
	6.281			6.247								
TP-47	5.022	5.022	9.065	4.973	4.973	4.043		509.80	0.000705670	0.000705670	4.042	1.232
	3.763			3.699								
	15.066			14.919								
		251.800			254.800							
	6.235			5.726								
TP-48	5.688	5.688	10.275	4.478	4.478	4.587		501.40	0.000694043	0.000694043	4.586	1.398
	5.141			3.230								
	17.064			13.434								
		109.400			249.600							
T-610	2.065			3.532								
DCBM	1.381	1.382	8.655	3.002	3.002	7.273		215.40	0.000298159	0.000298159	7.273	2.217
	0.700			2.472								
	4.146			9.006								
		136.500			106.000							
	7.127			6.525								
70+00	5.688	5.688	9.014	5.330	5.329	3.326		375.70	0.000520048	0.000818207	3.325	1.013
	4.249			4.133								
	17.064			15.988								
		287.800			239.200							
	5.211			3.292								
TP-26	3.843	3.843	10.284	2.573	2.573	6.441		431.60	0.000597425	0.001415632	6.439	1.963
(1804C)	2.475			1.854								
	11.529			7.719								
		273.600			143.800							

JOB# 1804-C		PARTY CHIEF		SH	DATE: July 6, 2005			FIELD BOOK Various			PAGE	
STATION	3 WIRE	AVG.	HI	3 WIRE	AVG.	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. EL.	METRIC
	6.385			6.523								
TP-25	5.070	5.070	10.117	5.237	5.237	5.047		530.80	0.000734739	0.002150371	5.045	1.538
(1804C)	3.755			3.951								
	15.210			15.711								
		263.000			257.200							
	6.632			6.402								
TP-24	5.314	5.314	10.356	5.075	5.075	5.042		528.40	0.000731417	0.002881787	5.039	1.536
(1804C)	3.996			3.748								
	15.942			15.225								
		263.600			265.400							
	6.211			6.240								
TP-23	4.879	4.879	10.307	4.928	4.928	5.428		526.00	0.000728095	0.003609882	5.424	1.653
(1804C)	3.547			3.616								
	14.637			14.784								
		266.400			262.400							
	5.959			6.013								
TP-22	4.727	4.727	10.350	4.684	4.684	5.623		532.20	0.000736677	0.004346559	5.618	1.712
(1804C)	3.495			3.355								
	14.181		z	14.052								
		246.400			265.800							
	6.339			5.636								
TP-21	5.074	5.074	11.057	4.367	4.367	5.983		500.20	0.000692382	0.005038940	5.978	1.822
(1804C)	3.809			3.098								
	15.222			13.101								
		253.000			253.800							
				5.083								
R-710				3.838	3.838	7.219	7.180	502.00	0.000694874	0.005733814	7.213	2.199
				2.593								
				11.514								
					249.000							
							LOR=	27934.10				
	TOTAL +=	13941.500		TOTAL -=	13992.600			27934.10				

JOB# 1804-C PARTY CHIEF SH DATE: July 6, 2005 FIELD BOOK Various PAGE

STATION	3 WIRE	AVG.	HI	3 WIRE	AVG.	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. EL.	METRIC
RAW CLOSURE=							0.039					
ERROR PER FOOT=							0.00000138					
MTS ALLOWABLE ERROR FOR THIRD ORDER=							0.069					
ACTUAL ERROR=							0.039					

JOB# 1804-C		PARTY CHIEF		SH	DATE: July 6, 2005		FIELD BOOK Various			PAGE		
STATION	3 WIRE	AVG.	HI	3 WIRE	AVG.	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. EL.	METRIC
	2.065											
T-610	1.381	1.382	10.152				8.770		NGVD 29			
Not	0.700											
Approved	4.146											
		136.500										
	5.998			6.525								
70+00	4.795	4.799	9.621	5.330	5.329	4.823		375.70	-0.002372813	-0.002372813	4.825	1.471
	3.603			4.133								
	14.396			15.988								
		239.500			239.200							
	5.923			5.889								
65+00	4.715	4.719	9.762	4.577	4.578	5.043		501.50	-0.003167329	-0.005540142	5.049	1.539
	3.518			3.269								
	14.156			13.735								
		240.500			262.000							
	6.523			6.193								
60+00	5.351	5.346	10.222	4.885	4.885	4.876		502.00	-0.003170487	-0.008710629	4.885	1.489
	4.163			3.578								
	16.037			14.656								
		236.000			261.500							
	6.927			6.949								
55+00	5.755	5.757	10.356	5.621	5.624	4.598		500.80	-0.003162908	-0.011873537	4.610	1.405
	4.590			4.301								
	17.272			16.871								
		233.700			264.800							
	6.393			6.866								
50+00	5.217	5.214	10.038	5.527	5.532	4.824		500.10	-0.003158487	-0.015032024	4.839	1.475
	4.033			4.202								
z	15.643			16.595								
		236.000			266.400							
	6.363			6.261								
45+00	5.190	5.190	10.292	4.933	4.937	5.101		500.40	-0.003160382	-0.018192406	5.120	1.560

JOB# 1804-C		PARTY CHIEF		SH	DATE: July 6, 2005		FIELD BOOK Various			PAGE		
STATION	3 WIRE	AVG.	HI	3 WIRE	AVG.	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. EL.	METRIC
	4.018			3.617								
	15.571		z	14.811								
		234.500			264.400							
	6.533			6.578								
40+00	5.365	5.363	10.406	5.249	5.249	5.043		500.40	-0.003160382	-0.021352788	5.064	1.544
	4.191			3.919								
	16.089			15.746								
		234.200			265.900							
	6.788			6.873								
35+00	5.605	5.605	10.468	5.541	5.543	4.863		500.00	-0.003157856	-0.024510644	4.888	1.490
	4.423			4.215								
	16.816			16.629								
		236.500			265.800							
	6.362			6.845								
30+00	5.182	5.182	10.130	5.520	5.520	4.948		501.50	-0.003167329	-0.027677973	4.976	1.517
	4.002			4.195								
	15.546			16.560								
		236.000			265.000							
	6.318			6.384								
25+00	5.125	5.128	10.196	5.060	5.063	5.068		500.00	-0.003157856	-0.030835829	5.099	1.554
	3.942			3.744								
z	15.385			15.188								
		237.600			264.000							
				5.287								
TBM 97				3.970	3.970	6.226	6.260	501.00	-0.003164171	-0.034000000	6.260	1.908
Not				2.653								
Approved				11.910								
					263.400							
							LOR=	5383.40				
	TOTAL +=	2501.000		TOTAL -=	2882.400			5383.40				
						RAW CLOSURE=	-0.034					

JOB# 1804-C PARTY CHIEF SH DATE: July 6, 2005 FIELD BOOK Various PAGE

STATION	3 WIRE	AVG.	HI	3 WIRE	AVG.	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. EL.	METRIC
						ERROR PER FOOT=	-0.00000632					
						MTS ALLOWABLE ERROR FOR THIRD ORDER=	0.030					
						ACTUAL ERROR=	-0.034		EXCEEDS ALLOWABLE ERROR			

88 Adjustment 1834A.txt
88 Adjustment

1834A. OBS

H 00	1834A				14: 35: 13	08/22/82		14: 35: 13	08/22/82	ENGLISH	2. 55	
H 99	BISCAYNE BAY WELLS											
C 00	14: 37: 52	08/22/82	90	30.0	000001	SH	CC	SH				
C 01	WILD	NA2000		91119				100				
S 00	S1					P F8						
S 01	14: 40: 46	08/22/82	1.000									
O 00	BM1					P F8	PIP-F	61	1			
O 09	11: 31: 31									3. 891	3. 145	2. 399
O 00	TP1					P F8	NL					
O 09	11: 35: 37									5. 333	4. 594	3. 855
S 00	S2					P G1						
S 01	15: 03: 40	08/22/82	1.000									
O 00	TP1					P F8	NL					
O 09	15: 08: 58									7. 390	6. 117	4. 844
O 00	TP2					P F8	NL					
O 09	15: 11: 47									5. 870	4. 590	3. 310
S 00	S3					P F8						
S 01	15: 15: 48	08/22/82	1.000									
O 00	TP2					P F8	NL					
O 09	15: 16: 43									6. 243	5. 024	3. 805
O 00	TP3					P F8	NL					
O 09	15: 19: 46									5. 686	4. 430	3. 174
S 00	S4					P F8						
S 01	15: 20: 13	08/22/82	1.000									
O 00	TP3					P F8	NL					
O 09	15: 23: 30									6. 190	4. 915	3. 640
O 00	TP4					P F8	NL					
O 09	15: 25: 26									6. 260	5. 008	3. 756
S 00	S5					P F8						
S 01	15: 25: 57	08/22/82	1.000									
O 00	TP4					P F8	NL					
O 09	15: 29: 20									6. 255	4. 994	3. 733
O 00	TP5					P F8	NL					
O 09	15: 31: 25									6. 105	4. 830	3. 555
S 00	S6					P F8						
S 01	15: 31: 32	08/22/82	1.000									
O 00	TP5					P F8	NL					
O 09	15: 34: 14									4. 974	3. 685	2. 396
O 00	TP6					P F8	NL					
O 09	15: 39: 01									7. 126	5. 851	4. 576
S 00	S8					P F8						
S 01	10: 42: 13	08/24/82	1.000									
O 00	TP6					P F8	NL					
O 09	10: 49: 28									4. 546	4. 184	3. 822
O 00	BM3					P F8	PIP(V-314)	R725				
O 09	10: 50: 53									4. 853	4. 628	4. 403
C 00	15: 40: 02	08/25/82	90	30.0	000001	SH	CC	SH				
C 01	WILD	NA2000		91119				100				
S 00	S9					P F8						
S 01	15: 40: 18	08/25/82	1.000									
O 00	TP6					P F8						
O 09	15: 45: 04									4. 733	4. 208	3. 683
O 00	TP7					P F8						
O 09	15: 48: 32									5. 211	4. 673	4. 135
S 00	S10					P F8						
S 01	15: 48: 38	08/25/82	1.000									
O 00	TP7					P F8						
O 09	15: 50: 35									7. 859	6. 570	5. 281
O 00	TP8					P F8						
O 09	15: 53: 26									5. 971	4. 708	3. 445
S 00	S11					P F8						
S 01	15: 53: 32	08/25/82	1.000									
O 00	TP8					P F8						
O 09	15: 55: 49									3. 116	2. 682	2. 248
O 00	MW1					P F8	MW-bbcw9mwa					
O 09	15: 58: 21									7. 801	7. 472	7. 143
O 00	GND1					P F8	GND					
O 09	15: 58: 58									7. 641	7. 307	6. 973

88 Adjustment 1834A.txt

O 00 MW2	P F8 MW-bbcw9mwb			
O 09 16: 00: 01		7. 806	7. 436	7. 066
O 00 GND2	P F8			
O 09 16: 00: 21		7. 650	7. 275	6. 900
S 00 S12	P F8			
S 01 16: 00: 48 08/25/82 1. 000				
O 00 GND2	P F8			
O 09 16: 01: 35		7. 599	7. 223	6. 847
O 00 TP8	P F8 NL			
O 09 16: 02: 35		3. 075	2. 642	2. 209
S 00 S13	P F8			
S 01 16: 02: 44 08/25/82 1. 000				
O 00 TP8	P F8 NL			
O 09 16: 05: 11		6. 037	4. 728	3. 419
O 00 TP7	P F8			
O 09 16: 07: 24		7. 831	6. 588	5. 345
S 00 S14	P F8			
S 01 16: 07: 31 08/25/82 1. 000				
O 00 TP7	P F8			
O 09 16: 09: 30		5. 398	4. 847	4. 296
O 00 TP6	P F8			
O 09 16: 10: 40		4. 901	4. 383	3. 865
S 00 S15	P F8			
S 01 16: 11: 10 08/25/82 1. 000				
OD00 BM3	P F8 CMON-R725			
OD09 16: 13: 03		4. 673	4. 450	4. 227
S 00 S15	P F8			
S 01 16: 13: 31 08/25/82 1. 000				
O 00 TP6	P F8			
O 09 16: 13: 51		4. 673	4. 450	4. 227
O 00 BM2	P F8 CMON-R725			
O 09 16: 14: 43		5. 021	4. 893	4. 765
R 00 00: 00: 00 12/31/99				
R 99 TAPE OBSERVATION DATA STARTS HERE				
C 00 00: 00: 00 12/31/99				
C 99 DUMMY TAPE CALIBRATION TO RE-INITIALIZE COLLIMATION TO ZERO				
C 01 TAPING TAPING	10 99 100			
C 03 00: 00: 00	D 0 0 0.0 90 0 0.0			
C 03 00: 00: 00	D 0 0 0.0 90 0 0.0			
C 03 00: 00: 00	R 180 0 0.0 270 0 0.0			
C 03 00: 00: 00	R 180 0 0.0 270 0 0.0			
R 00 00: 00: 00 12/31/99				
R 99 TAPE OBSERVATION DATA ENDS HERE				
R 00 00: 00: 00 12/31/99				
R 99 TAPE TRAVERSE DATA (I. E. CHAINS) START HERE				
R 00 00: 00: 00 12/31/99				
R 99 TAPE TRAVERSE DATA (I. E. CHAINS) ENDS HERE				
R 00 00: 00: 00 12/31/99				
R 99 CHAIN DATA STARTS HERE				
R 00 00: 00: 00 12/31/99				
R 99 CHAIN DATA ENDS HERE				
R 00 00: 00: 00 12/31/99				
R 99 PREFIX DATA STARTS HERE				
P 00				
P 01 S15, BM3, TP8, MW2, GND2				
' 1F2- 5 "ñr' 1^"- €α α x* ←-+ " 0"¼L' 1^"-ß- ÿ-i jÿ-â" xL' 1^"-				
R 00 00: 00: 00 12/31/99				
R 99 PREFIX DATA ENDS HERE				

1834A. 1D

MI SCLOSURE OF MULTIPLE ELEV. DIFFERENCE MEASUREMENTS
 STATIONS MI SCLOSURE
 TP8 - GND2 .012
 TP7 - TP8 .002
 TP6 - TP7 .001
 END OF MI SCLOSURE REPORT

22 OF 30 STATIONS IDENTIFIED AS VERTICAL SIDESHOTS
 BAND IS 1 STATIONS

LEVEL NETWORK ADJUSTMENT

NUMBER OF BENCHMARKS = 2
 NUMBER OF STATIONS = 8
 NUMBER OF MEASUREMENTS = 7
 NUMBER OF REQUIRED TERMS FOR NORMAL EQUATIONS = 15

RESULTS OF ADJUSTMENT

BENCHMARK ELEVATION RESIDUALS

STATION	INPUT ELEV.	ADJUSTED ELEV.	ERROR EST.	RESIDUAL
BM1	7.130	7.130	.000	.000 (.0)
BM3	5.260	5.260	.000	.000 (.0)

BENCHMARK RMS ERROR = .000 SNOOP RMS = .0
 MAX. BENCHMARK RESIDUAL AT STATION BM3 OF .000

RESIDUALS

FROM	TO	MEASURED	RESIDUAL	EST. ERROR
BM1	TP1	-1.449	.000 (.0)	.010
TP1	TP2	1.527	.000 (.0)	.010
TP2	TP3	.594	.000 (.0)	.010
TP3	TP4	-.093	.000 (.0)	.010
TP4	TP5	.164	.000 (.0)	.010
TP5	TP6	-2.166	.000 (.0)	.010
TP6	BM3	-.444	.000 (.0)	.010

ELEV. DIFF. RMS ERROR = .000 SNOOP RMS = .0
 MAX. ELEV. DIFF. RESIDUAL TP6 - BM3 OF .000

95% CONFIDENCE F STATISTIC STANDARD ERROR MULTIPLIER FOR 1 D.F. IS 20.00

STATION	ADJUSTED ELEV.	STANDARD ERROR
BM1	7.130	.000
TP1	5.681	.021
TP2	7.207	.027
TP3	7.801	.030
TP4	7.707	.030
TP5	7.871	.027
TP6	5.704	.021
BM3	5.260	.000

STANDARD ERROR OF UNIT WEIGHT IS .113
 WITH 1 DEGREES OF FREEDOM

CHI SQUARED TEST ON ANALYSIS

.031 < .113 < 1.960
 (LOW) (HIGH)
 PASSES AT THE 5 % SIGNIFICANCE LEVEL

1834A. CHL

PROJECT NAME IS 1834A

ELEVATION CLOSURE REPORT

SUM OF DISTANCES ALONG SURVEY IS 2951.200

CLOSURE IN ELEVATION (Z) = -.003

CLOSURE PER STATION = .000

PRECISION = 1 / 983733.

STATION	ELEVATION (Z)
BM1	7.130
TP1	5.681

88 Adjustment 1834A.txt

TP2	7.207
TP3	7.801
TP4	7.707
TP5	7.871
TP6	5.704
BM3	5.260

TOTAL LENGTH OF EVALUATED SURVEY DISTANCE = .559 MILES
 OVERALL PRECISION = 1 / 983733.

1834A. CTL

G 00	1834A			
G 01	BM1	BM1	P F8 IRC F61-1	0901 83F88
G 02			7.1300	.0001
G 01	BBM1	BBM1	P F8 IRC H-111	0901 83F88
G 02			4.9000	.0001
G 01	BM3	BM3	P F8 IRC R-725	0901 83F88
G 02			5.2600	.0001

1834A. XYZ

G 00	1834A. XYZ			
G 01	BM1		P F8 PIP-F 61 1	0901 83F88
G 02			7.130	.000
G 01	TP1		P F8 NL	0901 83F88
G 02			5.681	.021
G 01	TP2		P F8 NL	0901 83F88
G 02			7.207	.027
G 01	TP3		P F8 NL	0901 83F88
G 02			7.801	.030
G 01	TP4		P F8 NL	0901 83F88
G 02			7.707	.030
G 01	TP5		P F8 NL	0901 83F88
G 02			7.871	.027
G 01	TP6		P F8 NL	0901 83F88
G 02			5.704	.021
G 01	BM3		P F8 PIP(V-314)R725	0901 83F88
G 02			5.260	.000
G 01	TP7		P F8	0901 83F88
G 02			5.240	
G 01	TP8		P F8	0901 83F88
G 02			7.101	
G 01	MW1		P F8 MW-bbcw9mwa	0901 83F88
G 02			2.311	
G 01	GND1		P F8 GND	0901 83F88
G 02			2.476	
G 01	MW2		P F8 MW-bbcw9mwb	0901 83F88
G 02			2.347	
G 01	GND2		P F8	0901 83F88
G 02			2.514	
G 01	BM2		P F8 CMON-R725	0901 83F88
G 02			5.261	

29 Adjustment 1834A.txt

1834A. OBS

H 00	1834A(NGVD-29)			14: 35: 13	08/22/82		14: 35: 13	08/22/82	ENGLISH	2. 55
H 99	BI SCAYNE BAY WELLS									
C 00	14: 37: 52	08/22/82	90	30. 0	000001	SH	CC	SH		
C 01	WILD	NA2000		91119				100		
S 00	S1					P F8				
S 01	14: 40: 46	08/22/82	1. 000							
O 00	BM1					P F8	PIP-F	61 1		
O 09	11: 31: 31								3. 891	3. 145 2. 399
O 00	TP1					P F8	NL			
O 09	11: 35: 37								5. 333	4. 594 3. 855
S 00	S2					P G1				
S 01	15: 03: 40	08/22/82	1. 000							
O 00	TP1					P F8	NL			
O 09	15: 08: 58								7. 390	6. 117 4. 844
O 00	TP2					P F8	NL			
O 09	15: 11: 47								5. 870	4. 590 3. 310
S 00	S3					P F8				
S 01	15: 15: 48	08/22/82	1. 000							
O 00	TP2					P F8	NL			
O 09	15: 16: 43								6. 243	5. 024 3. 805
O 00	TP3					P F8	NL			
O 09	15: 19: 46								5. 686	4. 430 3. 174
S 00	S4					P F8				
S 01	15: 20: 13	08/22/82	1. 000							
O 00	TP3					P F8	NL			
O 09	15: 23: 30								6. 190	4. 915 3. 640
O 00	TP4					P F8	NL			
O 09	15: 25: 26								6. 260	5. 008 3. 756
S 00	S5					P F8				
S 01	15: 25: 57	08/22/82	1. 000							
O 00	TP4					P F8	NL			
O 09	15: 29: 20								6. 255	4. 994 3. 733
O 00	TP5					P F8	NL			
O 09	15: 31: 25								6. 105	4. 830 3. 555
S 00	S6					P F8				
S 01	15: 31: 32	08/22/82	1. 000							
O 00	TP5					P F8	NL			
O 09	15: 34: 14								4. 974	3. 685 2. 396
O 00	TP6					P F8	NL			
O 09	15: 39: 01								7. 126	5. 851 4. 576
S 00	S8					P F8				
S 01	10: 42: 13	08/24/82	1. 000							
O 00	TP6					P F8	NL			
O 09	10: 49: 28								4. 546	4. 184 3. 822
O 00	BM3					P F8	PIP R-725			
O 09	10: 50: 53								4. 853	4. 628 4. 403
C 00	15: 40: 02	08/25/82	90	30. 0	000001	SH	CC	SH		
C 01	WILD	NA2000		91119				100		
S 00	S9					P F8				
S 01	15: 40: 18	08/25/82	1. 000							
O 00	TP6					P F8				
O 09	15: 45: 04								4. 733	4. 208 3. 683
O 00	TP7					P F8				
O 09	15: 48: 32								5. 211	4. 673 4. 135
S 00	S10					P F8				
S 01	15: 48: 38	08/25/82	1. 000							
O 00	TP7					P F8				
O 09	15: 50: 35								7. 859	6. 570 5. 281
O 00	TP8					P F8				
O 09	15: 53: 26								5. 971	4. 708 3. 445
S 00	S11					P F8				
S 01	15: 53: 32	08/25/82	1. 000							
O 00	TP8					P F8				
O 09	15: 55: 49								3. 116	2. 682 2. 248
O 00	MW1					P F8	MW-bbcw9mwa			
O 09	15: 58: 21								7. 801	7. 472 7. 143
O 00	GND1					P F8	GND			
O 09	15: 58: 58								7. 641	7. 307 6. 973
O 00	MW2					P F8	MW-bbcw9mwb			

29 Adjustment 1834A.txt

O 09 16:00:01			7.806	7.436	7.066
O 00 GND2	P F8				
O 09 16:00:21			7.650	7.275	6.900
S 00 S12	P F8				
S 01 16:00:48 08/25/82 1.000					
O 00 GND2	P F8				
O 09 16:01:35			7.599	7.223	6.847
O 00 TP8	P F8 NL				
O 09 16:02:35			3.075	2.642	2.209
S 00 S13	P F8				
S 01 16:02:44 08/25/82 1.000					
O 00 TP8	P F8 NL				
O 09 16:05:11			6.037	4.728	3.419
O 00 TP7	P F8				
O 09 16:07:24			7.831	6.588	5.345
S 00 S14	P F8				
S 01 16:07:31 08/25/82 1.000					
O 00 TP7	P F8				
O 09 16:09:30			5.398	4.847	4.296
O 00 TP6	P F8				
O 09 16:10:40			4.901	4.383	3.865
S 00 S15	P F8				
S 01 16:11:10 08/25/82 1.000					
OD00 BM3	P F8 CMON-R725				
OD09 16:13:03			4.673	4.450	4.227
S 00 S15	P F8				
S 01 16:13:31 08/25/82 1.000					
O 00 TP6	P F8				
O 09 16:13:51			4.673	4.450	4.227
O 00 BM2	P F8 CMON-R725				
O 09 16:14:43			5.021	4.893	4.765
R 00 00:00:00 12/31/99					
R 99 TAPE OBSERVATION DATA STARTS HERE					
C 00 00:00:00 12/31/99					
C 99 DUMMY TAPE CALIBRATION TO RE-INITIALIZE COLLIMATION TO ZERO					
C 01 TAPING TAPING		10 99 100			
C 03 00:00:00	D	0 0 0.0 90 0 0.0			
C 03 00:00:00	D	0 0 0.0 90 0 0.0			
C 03 00:00:00	R	180 0 0.0 270 0 0.0			
C 03 00:00:00	R	180 0 0.0 270 0 0.0			
R 00 00:00:00 12/31/99					
R 99 TAPE OBSERVATION DATA ENDS HERE					
R 00 00:00:00 12/31/99					
R 99 TAPE TRAVERSE DATA (I. E. CHAINS) START HERE					
R 00 00:00:00 12/31/99					
R 99 TAPE TRAVERSE DATA (I. E. CHAINS) ENDS HERE					

1834A. 1D

MISCLOSURE OF MULTIPLE ELEV. DIFFERENCE MEASUREMENTS

STATIONS	MISCLOSURE
TP8 - GND2	.012
TP7 - TP8	.002
TP6 - TP7	.001

END OF MISCLOSURE REPORT

20 OF 29 STATIONS IDENTIFIED AS VERTICAL SIDESHOTS
 BAND IS 2 STATIONS
 LEVEL NETWORK ADJUSTMENT

NUMBER OF BENCHMARKS = 3
 NUMBER OF STATIONS = 9
 NUMBER OF MEASUREMENTS = 8
 NUMBER OF REQUIRED TERMS FOR NORMAL EQUATIONS = 25

RESULTS OF ADJUSTMENT

BENCHMARK ELEVATION RESIDUALS

STATION	INPUT ELEV.	ADJUSTED ELEV.	ERROR EST.	RESIDUAL
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29 Adjustment 1834A.txt

BM1	8.660	8.660	.000	.000	(.0)
BM2	6.780	6.780	.000	.000	(.0)
BM3	6.780	6.780	.000	.000	(.0)

BENCHMARK RMS ERROR = .000 SNOOP RMS = .0
 MAX. BENCHMARK RESIDUAL AT STATION BM1 OF .000

RESIDUALS

FROM	TO	MEASURED	RESIDUAL	EST. ERROR
BM1	TP1	-1.449	-.002 (.2)	.010
TP1	TP2	1.527	-.002 (.2)	.010
TP2	TP3	.594	-.002 (.2)	.010
TP3	TP4	-.093	-.002 (.2)	.010
TP4	TP5	.164	-.002 (.2)	.010
TP5	TP6	-2.166	-.002 (.2)	.010
TP6	BM3	-.444	-.001 (.1)	.010
TP6	BM2	-.443	-.002 (.2)	.010

ELEV. DIFF. RMS ERROR = .002 SNOOP RMS = .2
 MAX. ELEV. DIFF. RESIDUAL TP4 - TP5 OF .002

95% CONFIDENCE F STATISTIC STANDARD ERROR MULTIPLIER FOR 2 D.F. IS 6.16

STATION	ADJUSTED ELEV.	STANDARD ERROR
BM1	8.660	.000
TP1	7.209	.021
TP2	8.734	.027
TP3	9.326	.030
TP4	9.231	.029
TP5	9.393	.025
TP6	7.225	.016
BM3	6.780	.000
BM2	6.780	.000

STANDARD ERROR OF UNIT WEIGHT IS .378
 WITH 2 DEGREES OF FREEDOM

CHI SQUARED TEST ON ANALYSIS
 .159 < .378 < 1.731
 (LOW) (HIGH)
 PASSES AT THE 5 % SIGNIFICANCE LEVEL

1834A. CHL

PROJECT NAME IS 1834A

ELEVATION CLOSURE REPORT
 SUM OF DISTANCES ALONG SURVEY IS 2951.200
 CLOSURE IN ELEVATION (Z) = -.013
 CLOSURE PER STATION = -.002
 PRECISION = 1 / 227015.

STATION	ELEVATION (Z)
BM1	8.660
TP1	7.209
TP2	8.734
TP3	9.326
TP4	9.231
TP5	9.393
TP6	7.225
BM3	6.780

29 Adjustment 1834A.txt

TOTAL LENGTH OF EVALUATED SURVEY DISTANCE = . 559 MILES
 OVERALL PRECISION = 1 / 227015.

1834A. CTL

G 00	1834A			
G 01	BM1	BM1	P F8 F-61-1	0901 83F29
G 02			8. 6600	. 0001
G 01	BM2	BM2	P F8 R-725	0901 83F29
G 02			6. 7800	. 0001
G 01	BM3	BM3	P F8 R-725	0901 83F29
G 02			6. 7800	. 0001

1834A. XYZ

G 00	1834A. XYZ			
G 01	BM1		P F8 PIP-F 61 1	0901 83F29
G 02			8. 660	. 000
G 01	TP1		P F8 NL	0901 83F29
G 02			7. 209	. 021
G 01	TP2		P F8 NL	0901 83F29
G 02			8. 734	. 027
G 01	TP3		P F8 NL	0901 83F29
G 02			9. 326	. 030
G 01	TP4		P F8 NL	0901 83F29
G 02			9. 231	. 029
G 01	TP5		P F8 NL	0901 83F29
G 02			9. 393	. 025
G 01	TP6		P F8 NL	0901 83F29
G 02			7. 225	. 016
G 01	BM3		P F8 PIP R-725	0901 83F29
G 02			6. 780	. 000
G 01	TP7		P F8	0901 83F29
G 02			6. 760	
G 01	TP8		P F8	0901 83F29
G 02			8. 621	
G 01	MW1		P F8 MW-bbcw9mwa	0901 83F29
G 02			3. 831	
G 01	GND1		P F8 GND	0901 83F29
G 02			3. 996	
G 01	MW2		P F8 MW-bbcw9mwb	0901 83F29
G 02			3. 867	
G 01	GND2		P F8	0901 83F29
G 02			4. 034	
G 01	BM2		P F8 CMON-R725	0901 83F29
G 02			6. 780	. 000

88 Adjustment 1834B.txt

1834B. OBS

H 00	1834B			08: 48: 58	11/12/95	08: 48: 58	11/12/95	ENGLISH	2. 55
H 99	LEVEL RUN FOR SFWMD. BISCAYNE BAY COSTAL WETLANDS WELLS								
C 00	08: 51: 36	11/12/95	90	30.0	000001	DF	TB	TD	
C 01	WILD	NA2000	90788					100	
C 13	09: 07: 04	4. 12	4. 94	5. 05	5. 87				
H 99	TASK 9								
S 00	S1					P	F8		
S 01	08: 25: 20	08/25/82	1. 000						
O 00	BM1					P	G1	CMON-f61 1	
O 09	08: 36: 33								3. 081 2. 169 1. 257
O 00	TP1					P	F8	NL	
O 09	08: 39: 05								8. 132 6. 885 5. 638
S 00	S2					P	F8		
S 01	08: 39: 12	08/25/82	1. 000						
O 00	TP1					P	F8	NL	
O 09	08: 42: 39								6. 414 5. 205 3. 996
O 00	TP2					P	F8	NL	
O 09	08: 45: 46								6. 430 5. 203 3. 976
S 00	S3					P	F8		
S 01	08: 45: 53	08/25/82	1. 000						
O 00	TP2					P	F8	NL	
O 09	08: 49: 02								6. 124 4. 859 3. 594
O 00	TP3					P	F8	NL	
O 09	08: 52: 19								6. 247 5. 003 3. 759
S 00	S4					P	F8		
S 01	08: 52: 25	08/25/82	1. 000						
O 00	TP3					P	F8	NL	
O 09	08: 55: 28								6. 521 5. 252 3. 983
O 00	TP4					P	F8	NL	
O 09	08: 58: 26								6. 553 5. 286 4. 019
S 00	S5					P	F8		
S 01	08: 58: 31	08/25/82	1. 000						
O 00	TP4					P	F8	NL	
O 09	09: 01: 24								6. 607 5. 378 4. 149
O 00	TP5					P	F8	NL	
O 09	09: 04: 31								6. 196 4. 940 3. 684
S 00	S6					P	F8		
S 01	09: 04: 37	08/25/82	1. 000						
O 00	TP5					P	F8	NL	
O 09	09: 07: 36								6. 024 4. 785 3. 546
O 00	TP6					P	F8	NL	
O 09	09: 11: 01								5. 799 4. 532 3. 265
S 00	S7					P	F8		
S 01	09: 11: 06	08/25/82	1. 000						
O 00	TP6					P	F8	NL	
O 09	09: 14: 21								6. 176 4. 909 3. 642
O 00	TP7					P	F8	NL	
O 09	09: 17: 54								5. 772 4. 531 3. 290
S 00	S8					P	F8		
S 01	09: 18: 03	08/25/82	1. 000						
O 00	TP7					P	F8	NL	
O 09	09: 23: 46								5. 989 4. 739 3. 489
O 00	TP8					P	F8	NL	
O 09	09: 24: 58								5. 735 4. 461 3. 187
S 00	S9					P	F8		
S 01	09: 25: 05	08/25/82	1. 000						
O 00	TP8					P	F8	NL	
O 09	09: 27: 54								6. 416 5. 153 3. 890
O 00	TP9					P	F8	NL	
O 09	09: 30: 39								6. 577 5. 307 4. 037
S 00	S10					P	F8		
S 01	09: 30: 47	08/25/82	1. 000						
O 00	TP9					P	F8	NL	
O 09	09: 34: 35								6. 834 5. 584 4. 334
O 00	TP10					P	F8	NL	
O 09	09: 37: 32								6. 046 4. 755 3. 464
S 00	S11					P	F8		
S 01	09: 37: 38	08/25/82	1. 000						
O 00	TP10					P	F8	NL	

88 Adjustment 1834B.txt

0 09 09: 40: 36					5.381	4.118	2.855
0 00 TP11				P F8 NL			
0 09 09: 43: 31					5.854	4.587	3.320
S 00 S12				P F8			
S 01 09: 43: 35	08/25/82	1.000					
0 00 TP11				P F8 NL			
0 09 09: 47: 18					6.063	4.780	3.497
0 00 TP12				P F8 NL			
0 09 09: 50: 18					6.091	4.838	3.585
S 00 S13				P F8			
S 01 09: 50: 25	08/25/82	1.000					
0 00 TP12				P F8 NL			
0 09 09: 53: 27					6.359	5.059	3.759
0 00 TP13				P F8 NL			
0 09 09: 56: 11					5.997	4.702	3.407
S 00 S14				P F8			
S 01 09: 56: 16	08/25/82	1.000					
0 00 TP13				P F8 NL			
0 09 10: 00: 20					6.650	5.131	3.612
0 00 TP14				P F8 NL			
0 09 10: 10: 05					9.541	8.028	6.515
S 00 S15				P F8			
S 01 10: 10: 16	08/25/82	1.000					
0 00 TP14				P F8 NL			
0 09 10: 35: 37					6.608	5.426	4.244
0 00 TP15				P F8 NL			
0 09 10: 39: 09					6.659	5.407	4.155
S 00 S16				P F8			
S 01 10: 39: 17	08/25/82	1.000					
0 00 TP15				P F8 NL			
0 09 10: 43: 33					6.227	5.011	3.795
0 00 TP16				P F8 NL			
0 09 10: 46: 43					6.668	5.417	4.166
S 00 S17				P F8			
S 01 10: 46: 57	08/25/82	1.000					
0 00 TP16				P F8 NL			
0 09 10: 51: 17					6.745	5.483	4.221
0 00 TP17				P F8 NL			
0 09 10: 54: 47					6.645	5.393	4.141
S 00 S18				P F8			
S 01 10: 54: 54	08/25/82	1.000					
0 00 TP17				P F8 NL			
0 09 10: 58: 30					6.603	5.331	4.059
0 00 TP18				P F8 NL			
0 09 11: 01: 18					6.390	5.147	3.904
S 00 S19				P F8			
S 01 11: 01: 23	08/25/82	1.000					
0 00 TP18				P F8 NL			
0 09 11: 06: 05					5.795	5.083	4.371
0 00 TP19				P F8 NL			
0 09 11: 07: 54					6.085	5.180	4.275
S 00 S20				P F8			
S 01 11: 08: 03	08/25/82	1.000					
S 00 S20				P F8			
S 01 11: 20: 29	08/25/82	1.000					
S 00 S20				P F8			
S 01 11: 20: 45	08/25/82	1.000					
0 00 TP19				P F8 NL			
0 09 11: 23: 52					5.893	4.656	3.419
0 00 TP20				P F8 NL			
0 09 11: 27: 22					5.997	4.743	3.489
S 00 S21				P F8			
S 01 11: 27: 28	08/25/82	1.000					
0 00 TP20				P F8 NL			
0 09 11: 30: 30					6.575	5.334	4.093
0 00 TP21				P F8 NL			
0 09 11: 33: 51					6.509	5.271	4.033
S 00 S22				P F8			
S 01 11: 33: 58	08/25/82	1.000					
0 00 TP21				P F8 NL			

88 Adjustment 1834B.txt

0 09 11: 37: 36				6. 256	5. 034	3. 812
0 00 TP22	P F8 NL					
0 09 11: 41: 10				6. 321	5. 076	3. 831
S 00 S23	P F8					
S 01 11: 41: 15 08/25/82 1. 000						
0 00 TP22	P F8 NL					
0 09 11: 44: 12				6. 387	5. 142	3. 897
0 00 TP23	P F8 NL					
0 09 11: 47: 22				6. 330	5. 099	3. 868
S 00 S24	P F8					
S 01 11: 47: 27 08/25/82 1. 000						
0 00 TP23	P F8 NL					
0 09 11: 50: 36				6. 555	5. 202	3. 849
0 00 TP24	P F8 NL					
0 09 11: 54: 22				6. 296	4. 977	3. 658
S 00 S25	P F8					
S 01 11: 54: 29 08/25/82 1. 000						
0 00 TP24	P F8 NL					
0 09 11: 56: 57				6. 137	5. 685	5. 233
0 00 TP25	P F8 NL					
0 09 11: 58: 25				3. 660	2. 951	2. 242
S 00 S26	P F8					
S 01 11: 58: 33 08/25/82 1. 000						
0 00 TP25	P F8 NL					
0 09 13: 34: 50				6. 318	5. 069	3. 820
0 00 TP26	P F8 NL					
0 09 13: 36: 19				5. 885	4. 852	3. 819
S 00 S27	P F8					
S 01 13: 36: 25 08/25/82 1. 000						
0 00 TP26	P F8 NL					
0 09 13: 38: 52				6. 671	5. 386	4. 101
0 00 TP27	P F8 NL					
0 09 13: 40: 02				6. 291	5. 028	3. 765
S 00 S28	P F8					
S 01 13: 40: 08 08/25/82 1. 000						
0 00 TP27	P F8 NL					
0 09 13: 42: 03				5. 955	4. 707	3. 459
0 00 TP28	P F8 NL					
0 09 13: 43: 02				6. 058	4. 697	3. 336
S 00 S29	P F8					
S 01 13: 43: 14 08/25/82 1. 000						
0 00 TP28	P F8 NL					
0 09 13: 44: 57				6. 514	5. 289	4. 064
0 00 TP29	P F8 NL					
0 09 13: 45: 55				6. 806	5. 501	4. 196
S 00 S30	P F8					
S 01 13: 46: 00 08/25/82 1. 000						
0 00 TP29	P F8 NL					
0 09 13: 48: 24				5. 969	4. 644	3. 319
0 00 TP30	P F8 NL					
0 09 13: 49: 09				6. 233	4. 915	3. 597
S 00 S31	P F8					
S 01 13: 49: 13 08/25/82 1. 000						
0 00 TP30	P F8 NL					
0 09 13: 51: 07				6. 381	5. 139	3. 897
0 00 TP31	P F8 NL					
0 09 13: 51: 54				6. 518	5. 180	3. 842
S 00 S32	P F8					
S 01 13: 51: 58 08/25/82 1. 000						
0 00 TP31	P F8 NL					
0 09 13: 53: 34				6. 281	5. 057	3. 833
0 00 TP32	P F8 NL					
0 09 13: 54: 16				6. 235	4. 970	3. 705
S 00 S33	P F8					
S 01 13: 54: 24 08/25/82 1. 000						
0 00 TP32	P F8 NL					
0 09 13: 56: 06				6. 274	4. 993	3. 712
0 00 TP33	P F8 NL					
0 09 13: 56: 58				6. 381	5. 061	3. 741
S 00 S34	P F8					

88 Adjustment 1834B.txt

S 01	13: 57: 04	08/25/82	1. 000				
O 00	TP33			P F8 NL			
O 09	13: 59: 04				5. 894	5. 209	4. 524
O 00	BTP20			P F8 NL TP20 (SEG B)			
O 09	13: 59: 57				5. 684	5. 119	4. 554
S 00	S21			P G1			
S 01	10: 57: 19	11/12/95	1. 000				
O 00	BTP20			P F8 NL-PK			
O 09	11: 01: 26				5. 753	4. 206	2. 659
O 00	BTP21			P F8 NL-60D			
O 09	11: 07: 45				8. 801	7. 267	5. 733
S 00	S22			P G1			
S 01	11: 08: 01	11/12/95	1. 000				
O 00	BTP21			P F8 NL-60D			
O 09	12: 16: 38				6. 714	5. 388	4. 062
O 00	BTP22			P F8 NL-60D			
O 09	12: 19: 52				6. 045	4. 565	3. 085
S 00	S23			P G1			
S 01	12: 20: 07	11/12/95	1. 000				
O 00	BTP22			P F8 NL-60D			
O 09	12: 24: 54				5. 842	4. 540	3. 238
O 00	BTP23			P F8 NL-60D			
O 09	12: 27: 13				5. 106	3. 983	2. 860
S 00	S24			P G1			
S 01	12: 27: 25	11/12/95	1. 000				
O 00	BTP23			P F8 NL-60D			
O 09	12: 30: 12				5. 320	4. 264	3. 208
O 00	BTP24			P F8 NL-60D			
O 09	12: 32: 37				5. 750	4. 533	3. 316
S 00	S25			P G1			
S 01	12: 32: 51	11/12/95	1. 000				
O 00	BTP24			P F8 NL-60D			
O 09	12: 36: 08				5. 534	4. 446	3. 358
O 00	BTP25			P F8 NL-60D			
O 09	12: 38: 38				6. 643	5. 536	4. 429
S 00	S26			P G1			
S 01	12: 39: 03	11/12/95	1. 000				
O 00	BTP25			P F8 NL-60D			
O 09	12: 42: 17				5. 929	4. 954	3. 979
O 00	BTP26			P F8 NL-PK			
O 09	12: 44: 52				5. 596	4. 726	3. 856
S 00	S27			P G1			
S 01	12: 45: 18	11/12/95	1. 000				
O 00	BTP26			P F8 NL-PK			
O 09	12: 47: 57				5. 651	5. 538	5. 425
O 00	BMNW1			P F8 MI SC-MONWELL-5A			
O 99	TOP OF PVC OUTER CASEING 6"				1. 644	1. 506	1. 368
O 09	12: 51: 40						
S 00	S28			P G1			
S 01	12: 52: 02	11/12/95	1. 000				
O 00	BMNW1			P F8 MI SC-MONWELL-5A			
O 99	TOP OF PVC OUTER CASEING 6"				1. 885	1. 746	1. 607
O 09	12: 55: 41						
O 00	BMNW2			P F8 MI SC-MONWELL-5A			
O 99	TOP OF 2" PVC MONWELL INSIDE OUTER CASEING				2. 274	2. 136	1. 998
O 09	12: 58: 23						
S 00	S29			P G1			
S 01	12: 58: 42	11/12/95	1. 000				
O 00	BMNW2			P F8 MI SC-MONWELL-5A			
O 99	TOP OF 2" PVC MONWELL INSIDE OUTER CASEING				2. 104	1. 964	1. 824
O 09	12: 59: 32						
O 00	BTP27			P F8 NL-PK			
O 09	13: 06: 10				5. 719	5. 604	5. 489
S 00	S30			P G1			
S 01	13: 06: 16	11/12/95	1. 000				
O 00	BTP27			P F8 NL-PK			
O 09	13: 08: 10				5. 770	4. 920	4. 070
O 00	BTP28			P F8 NL-60D			
O 09	13: 10: 09				6. 145	5. 152	4. 159
S 00	S31			P G1			

88 Adjustment 1834B.txt

S 01 13: 10: 28	11/12/95	1. 000					
0 00 BTP28			P F8 NL-60D				
0 09 13: 13: 01				6. 739	5. 733	4. 727	
0 00 BTP29			P F8 NL-60D				
0 09 13: 15: 18				5. 834	4. 644	3. 454	
S 00 S32			P G1				
S 01 13: 15: 33	11/12/95	1. 000					
0 00 BTP29			P F8 NL-60D				
0 09 13: 18: 36				6. 038	4. 823	3. 608	
0 00 BTP30			P F8 NL-60D				
0 09 13: 20: 50				5. 617	4. 556	3. 495	
S 00 S33			P G1				
S 01 13: 21: 05	11/12/95	1. 000					
0 00 BTP30			P F8 NL-60D				
0 09 13: 23: 44				5. 482	4. 390	3. 298	
0 00 BTP31			P F8 NL-60D				
0 09 13: 25: 53				6. 276	4. 944	3. 612	
S 00 S34			P G1				
S 01 13: 26: 07	11/12/95	1. 000					
0 00 BTP31			P F8 NL-60D				
0 09 13: 29: 33				6. 330	4. 878	3. 426	
0 00 BTP32			P F8 NL-60D				
0 09 13: 32: 21				7. 060	5. 705	4. 350	
S 00 S35			P G1				
S 01 13: 32: 37	11/12/95	1. 000					
0 00 BTP32			P F8 NL-60D				
0 09 13: 38: 41				8. 828	7. 247	5. 666	
0 00 BTP33			P F8 NL-PK				
0 09 13: 41: 49				5. 722	4. 181	2. 640	
S 00 S36			P G1				
S 01 13: 42: 14	11/12/95	1. 000					
0 00 BTP33			P F8 NL-PK				
0 09 14: 11: 52				5. 881	4. 668	3. 455	
0 00 BTP34			P F8 NL-PK				
0 09 14: 13: 32				5. 974	4. 617	3. 260	
S 00 S37			P G1				
S 01 14: 14: 16	11/12/95	1. 000					
0 00 BTP34			P F8 NL-PK				
0 09 14: 16: 19				5. 609	4. 335	3. 061	
0 00 BTP35			P F8 NL-PK				
0 09 14: 17: 59				5. 952	4. 651	3. 350	
S 00 S38			P G1				
S 01 14: 18: 10	11/12/95	1. 000					
0 00 BTP35			P F8 NL-PK				
0 09 14: 20: 43				6. 142	4. 882	3. 622	
0 00 BTP36			P F8 NL-PK				
0 09 14: 22: 00				5. 979	4. 704	3. 429	
S 00 S39			P G1				
S 01 14: 22: 27	11/12/95	1. 000					
0 00 BTP36			P F8 NL-PK				
0 09 14: 26: 45				5. 992	4. 682	3. 372	
0 00 BTP37			P F8 NL-PK				
0 09 14: 27: 52				5. 638	4. 369	3. 100	
S 00 S40			P G1				
S 01 14: 28: 07	11/12/95	1. 000					
0 00 BTP37			P F8 NL-PK				
0 09 14: 32: 35				5. 705	4. 418	3. 131	
0 00 BTP38			P F8 NL-PK				
0 09 14: 35: 27				5. 805	4. 473	3. 141	
S 00 S41			P G1				
S 01 14: 35: 49	11/12/95	1. 000					
0 00 BTP38			P F8 NL-PK				
0 09 14: 39: 39				5. 973	4. 648	3. 323	
0 00 BTP39			P F8 NL-PK				
0 09 14: 41: 13				5. 840	4. 524	3. 208	
S 00 S42			P G1				
S 01 14: 41: 33	11/12/95	1. 000					
0 00 BTP39			P F8 NL-PK				
0 09 14: 44: 19				5. 742	4. 429	3. 116	
0 00 BTP40			P F8 NL-PK				

88 Adjustment 1834B.txt

O 09 14: 46: 14		5. 837	4. 495	3. 153
S 00 S43	P G1			
S 01 14: 46: 45 11/12/95 1. 000				
O 00 BTP40	P F8 NL-PK			
O 09 14: 49: 25		5. 967	4. 563	3. 159
O 00 BTP41	P F8 NL-PK			
O 09 14: 50: 57		5. 630	4. 376	3. 122
S 00 S44	P G1			
S 01 14: 51: 23 11/12/95 1. 000				
O 00 BTP41	P F8 NL-PK			
O 09 14: 54: 14		5. 597	4. 302	3. 007
O 00 BTP42	P F8 NL-PK			
O 09 14: 55: 47		5. 745	4. 410	3. 075
S 00 S45	P G1			
S 01 14: 56: 01 11/12/95 1. 000				
O 00 BTP42	P F8 NL-PK			
O 09 14: 58: 53		5. 836	4. 486	3. 136
O 00 BTP43	P F8 NL-PK			
O 09 15: 00: 17		5. 837	4. 519	3. 201
S 00 S46	P G1			
S 01 15: 00: 59 11/12/95 1. 000				
O 00 BTP43	P F8 NL-PK			
O 09 15: 04: 05		5. 803	4. 510	3. 217
O 00 BTP44	P F8 NL-PK			
O 09 15: 05: 49		6. 028	4. 679	3. 330
S 00 S47	P G1			
S 01 15: 06: 01 11/12/95 1. 000				
O 00 BTP44	P F8 NL-PK			
O 09 15: 09: 22		6. 231	4. 910	3. 589
O 00 BTP45	P F8 NL-PK			
O 09 15: 11: 48		5. 610	4. 304	2. 998
S 00 S48	P G1			
S 01 15: 12: 04 11/12/95 1. 000				
O 00 BTP45	P F8 NL-PK			
O 09 15: 16: 44		6. 225	4. 851	3. 477
O 00 BTP46	P F8 NL-PK			
O 09 15: 19: 02		5. 802	4. 518	3. 234
S 00 S49	P G1			
S 01 15: 19: 22 11/12/95 1. 000				
O 00 BTP46	P F8 NL-PK			
O 09 15: 23: 19		5. 786	4. 462	3. 138
O 00 BTP47	P F8 NL-PK			
O 09 15: 26: 06		5. 807	4. 489	3. 171
S 00 S50	P G1			
S 01 15: 26: 23 11/12/95 1. 000				
O 00 BTP47	P F8 NL-PK			
O 09 15: 29: 43		5. 691	4. 223	2. 755
O 00 BBM2	P F8 CMON-SFWMD-V314			
O 09 15: 31: 18		3. 672	3. 154	2. 636
R 00 00: 00: 00 12/31/99				
R 99 TAPE OBSERVATION DATA STARTS HERE				
C 00 00: 00: 00 12/31/99				
C 99 DUMMY TAPE CALIBRATION TO RE-INITIALIZE COLLIMATION TO ZERO				
C 01 TAPING TAPING	10 99 100			
C 03 00: 00: 00	D 0 0 0.0 90 0 0.0			
C 03 00: 00: 00	D 0 0 0.0 90 0 0.0			
C 03 00: 00: 00	R 180 0 0.0 270 0 0.0			
C 03 00: 00: 00	R 180 0 0.0 270 0 0.0			
R 00 00: 00: 00 12/31/99				
R 99 TAPE OBSERVATION DATA ENDS HERE				
R 00 00: 00: 00 12/31/99				
R 99 TAPE TRAVERSE DATA (I. E. CHAINS) START HERE				
R 00 00: 00: 00 12/31/99				
R 99 TAPE TRAVERSE DATA (I. E. CHAINS) ENDS HERE				
R 00 00: 00: 00 12/31/99				
R 99 CHAIN DATA STARTS HERE				
R 00 00: 00: 00 12/31/99				
R 99 CHAIN DATA ENDS HERE				
R 00 00: 00: 00 12/31/99				
R 99 PREFIX DATA STARTS HERE				

P 00
P 01 S50, BBM2, BTP47, BMNW2
R 00 00:00:00 12/31/99
R 99 PREFIX DATA ENDS HERE

1834B.1D
MISCLOSURE OF MULTIPLE ELEV. DIFFERENCE MEASUREMENTS
STATIONS MISCLOSURE
END OF MISCLOSURE REPORT

50 OF 115 STATIONS IDENTIFIED AS VERTICAL SIDESHOTS
BAND IS 1 STATIONS
LEVEL NETWORK ADJUSTMENT

NUMBER OF BENCHMARKS = 2
NUMBER OF STATIONS = 65
NUMBER OF MEASUREMENTS = 64
NUMBER OF REQUIRED TERMS FOR NORMAL EQUATIONS = 129

RESULTS OF ADJUSTMENT

BENCHMARK ELEVATION RESIDUALS

STATION	INPUT ELEV.	ADJUSTED ELEV.	ERROR EST.	RESIDUAL
BM1	7.130	7.130	.000	.000 (.0)
BBM2	6.170	6.170	.000	.000 (.0)

BENCHMARK RMS ERROR = .000 SNOOP RMS = .0
MAX. BENCHMARK RESIDUAL AT STATION BBM2 OF .000

RESIDUALS

FROM	TO	MEASURED	RESIDUAL	EST. ERROR
BM1	TP1	-4.716	.000 (.0)	.010
TP1	TP2	.002	.000 (.0)	.010
TP2	TP3	-.144	.000 (.0)	.010
TP3	TP4	-.034	.000 (.0)	.010
TP4	TP5	.438	.000 (.0)	.010
TP5	TP6	.253	.000 (.0)	.010
TP6	TP7	.378	.000 (.0)	.010
TP7	TP8	.278	.000 (.0)	.010
TP8	TP9	-.154	.000 (.0)	.010
TP9	TP10	.829	.000 (.0)	.010
TP10	TP11	-.469	.000 (.0)	.010
TP11	TP12	-.058	.000 (.0)	.010
TP12	TP13	.357	.000 (.0)	.010
TP13	TP14	-2.897	.000 (.0)	.010
TP14	TP15	.019	.000 (.0)	.010
TP15	TP16	-.406	.000 (.0)	.010
TP16	TP17	.090	.000 (.0)	.010
TP17	TP18	.184	.000 (.0)	.010
TP18	TP19	-.097	.000 (.0)	.010
TP19	TP20	-.087	.000 (.0)	.010
TP20	TP21	.063	.000 (.0)	.010
TP21	TP22	-.042	.000 (.0)	.010
TP22	TP23	.043	.000 (.0)	.010
TP23	TP24	.225	.000 (.0)	.010
TP24	TP25	2.734	.000 (.0)	.010
TP25	TP26	.217	.000 (.0)	.010
TP26	TP27	.358	.000 (.0)	.010
TP27	TP28	.010	.000 (.0)	.010
TP28	TP29	-.212	.000 (.0)	.010
TP29	TP30	-.271	.000 (.0)	.010
TP30	TP31	-.041	.000 (.0)	.010
TP31	TP32	.087	.000 (.0)	.010

88 Adjustment 1834B.txt

TP32	TP33	-.068	.000	(.0)	.010
TP33	BTP20	.090	.000	(.0)	.010
BTP20	BTP21	-3.061	.000	(.0)	.010
BTP21	BTP22	.823	.000	(.0)	.010
BTP22	BTP23	.557	.000	(.0)	.010
BTP23	BTP24	-.269	.000	(.0)	.010
BTP24	BTP25	-1.090	.000	(.0)	.010
BTP25	BTP26	.228	.000	(.0)	.010
BTP26	BMNW1	4.032	.000	(.0)	.010
BMNW1	BMNW2	-.390	.000	(.0)	.010
BMNW2	BTP27	-3.640	.000	(.0)	.010
BTP27	BTP28	-.232	.000	(.0)	.010
BTP28	BTP29	1.089	.000	(.0)	.010
BTP29	BTP30	.267	.000	(.0)	.010
BTP30	BTP31	-.554	.000	(.0)	.010
BTP31	BTP32	-.827	.000	(.0)	.010
BTP32	BTP33	3.066	.000	(.0)	.010
BTP33	BTP34	.051	.000	(.0)	.010
BTP34	BTP35	-.316	.000	(.0)	.010
BTP35	BTP36	.178	.000	(.0)	.010
BTP36	BTP37	.313	.000	(.0)	.010
BTP37	BTP38	-.055	.000	(.0)	.010
BTP38	BTP39	.124	.000	(.0)	.010
BTP39	BTP40	-.066	.000	(.0)	.010
BTP40	BTP41	.187	.000	(.0)	.010
BTP41	BTP42	-.108	.000	(.0)	.010
BTP42	BTP43	-.033	.000	(.0)	.010
BTP43	BTP44	-.169	.000	(.0)	.010
BTP44	BTP45	.606	.000	(.0)	.010
BTP45	BTP46	.333	.000	(.0)	.010
BTP46	BTP47	-.027	.000	(.0)	.010
BTP47	BBM2	1.069	.000	(.0)	.010

ELEV. DIFF. RMS ERROR = .000 SNOOP RMS = .0
 MAX. ELEV. DIFF. RESIDUAL BTP21 - BTP22 OF .000

95% CONFIDENCE F STATISTIC STANDARD ERROR MULTIPLIER FOR 1 D.F. IS 20.00

STATION	ADJUSTED ELEV.	STANDARD ERROR
BM1	7.130	.000
TP1	2.414	.012
TP2	2.416	.017
TP3	2.272	.021
TP4	2.238	.024
TP5	2.676	.027
TP6	2.929	.029
TP7	3.306	.031
TP8	3.584	.033
TP9	3.430	.035
TP10	4.259	.036
TP11	3.790	.038
TP12	3.732	.039
TP13	4.089	.040
TP14	1.192	.041
TP15	1.211	.042
TP16	.805	.043
TP17	.895	.044
TP18	1.079	.045
TP19	.982	.046
TP20	.894	.046
TP21	.957	.047
TP22	.915	.047
TP23	.958	.048
TP24	1.183	.048
TP25	3.917	.049
TP26	4.134	.049
TP27	4.492	.049
TP28	4.502	.050

88 Adjustment 1834B.txt

TP29	4.290	.050
TP30	4.019	.050
TP31	3.978	.050
TP32	4.065	.050
TP33	3.996	.050
BTP20	4.086	.050
BTP21	1.025	.050
BTP22	1.848	.050
BTP23	2.405	.049
BTP24	2.136	.049
BTP25	1.046	.049
BTP26	1.274	.048
BMNW1	5.306	.048
BMNW2	4.916	.047
BTP27	1.276	.047
BTP28	1.044	.046
BTP29	2.132	.046
BTP30	2.399	.045
BTP31	1.845	.044
BTP32	1.018	.043
BTP33	4.084	.042
BTP34	4.135	.041
BTP35	3.819	.040
BTP36	3.997	.039
BTP37	4.310	.038
BTP38	4.255	.036
BTP39	4.379	.035
BTP40	4.313	.033
BTP41	4.500	.031
BTP42	4.391	.029
BTP43	4.358	.027
BTP44	4.189	.024
BTP45	4.795	.021
BTP46	5.128	.017
BTP47	5.101	.012
BBM2	6.170	.000

STANDARD ERROR OF UNIT WEIGHT IS .062
WITH 1 DEGREES OF FREEDOM

CHI SQUARED TEST ON ANALYSIS
.031 < .062 < 1.960
(LOW) (HIGH)
PASSES AT THE 5 % SIGNIFICANCE LEVEL

1834B.CHL
PROJECT NAME IS 1834B

ELEVATION CLOSURE REPORT
SUM OF DISTANCES ALONG SURVEY IS 30266.500
CLOSURE IN ELEVATION (Z) = -.005
CLOSURE PER STATION = .000
PRECISION = 1 / 6053300.

STATION	ELEVATION (Z)
BM1	7.130
TP1	2.414
TP2	2.416
TP3	2.272
TP4	2.238
TP5	2.676
TP6	2.929
TP7	3.306
TP8	3.584
TP9	3.430
TP10	4.259
TP11	3.790
TP12	3.732
TP13	4.089
TP14	1.192

88 Adjustment 1834B.txt

TP15	1. 211
TP16	. 805
TP17	. 895
TP18	1. 079
TP19	. 982
TP20	. 894
TP21	. 957
TP22	. 915
TP23	. 958
TP24	1. 183
TP25	3. 917
TP26	4. 134
TP27	4. 492
TP28	4. 502
TP29	4. 290
TP30	4. 019
TP31	3. 978
TP32	4. 065
TP33	3. 996
BTP20	4. 086
BTP21	1. 025
BTP22	1. 848
BTP23	2. 405
BTP24	2. 136
BTP25	1. 046
BTP26	1. 274
BMNW1	5. 306
BMNW2	4. 916
BTP27	1. 276
BTP28	1. 044
BTP29	2. 132
BTP30	2. 399
BTP31	1. 845
BTP32	1. 018
BTP33	4. 084
BTP34	4. 135
BTP35	3. 819
BTP36	3. 997
BTP37	4. 310
BTP38	4. 255
BTP39	4. 379
BTP40	4. 313
BTP41	4. 500
BTP42	4. 391
BTP43	4. 358
BTP44	4. 189
BTP45	4. 795
BTP46	5. 128
BTP47	5. 101
BBM2	6. 170

TOTAL LENGTH OF EVALUATED SURVEY DISTANCE = 5. 732 MILES
 OVERALL PRECISION = 1 / 6053300.

1834B. CTL

G 00	1834B			
G 01	BM1	BM1	P F8 IRC F61-1	0901 83F88
G 02			7. 1300	. 0001
G 01	BBM2	BBM2	P F8 IRC V-314	0901 83F88
G 02			6. 1700	. 0001

1834B. XYZ

G 00	1834B. XYZ			
G 01	BM1		P G1 CMON-f61 1	0901 83F88
G 02			7. 130	. 000
G 01	TP1		P F8 NL	0901 83F88
G 02			2. 414	. 012

88 Adjustment 1834B.txt

G 01 TP2	P F8 NL	0901 83F88
G 02	2. 416	. 017
G 01 TP3	P F8 NL	0901 83F88
G 02	2. 272	. 021
G 01 TP4	P F8 NL	0901 83F88
G 02	2. 238	. 024
G 01 TP5	P F8 NL	0901 83F88
G 02	2. 676	. 027
G 01 TP6	P F8 NL	0901 83F88
G 02	2. 929	. 029
G 01 TP7	P F8 NL	0901 83F88
G 02	3. 306	. 031
G 01 TP8	P F8 NL	0901 83F88
G 02	3. 584	. 033
G 01 TP9	P F8 NL	0901 83F88
G 02	3. 430	. 035
G 01 TP10	P F8 NL	0901 83F88
G 02	4. 259	. 036
G 01 TP11	P F8 NL	0901 83F88
G 02	3. 790	. 038
G 01 TP12	P F8 NL	0901 83F88
G 02	3. 732	. 039
G 01 TP13	P F8 NL	0901 83F88
G 02	4. 089	. 040
G 01 TP14	P F8 NL	0901 83F88
G 02	1. 192	. 041
G 01 TP15	P F8 NL	0901 83F88
G 02	1. 211	. 042
G 01 TP16	P F8 NL	0901 83F88
G 02	. 805	. 043
G 01 TP17	P F8 NL	0901 83F88
G 02	. 895	. 044
G 01 TP18	P F8 NL	0901 83F88
G 02	1. 079	. 045
G 01 TP19	P F8 NL	0901 83F88
G 02	. 982	. 046
G 01 TP20	P F8 NL	0901 83F88
G 02	. 894	. 046
G 01 TP21	P F8 NL	0901 83F88
G 02	. 957	. 047
G 01 TP22	P F8 NL	0901 83F88
G 02	. 915	. 047
G 01 TP23	P F8 NL	0901 83F88
G 02	. 958	. 048
G 01 TP24	P F8 NL	0901 83F88
G 02	1. 183	. 048
G 01 TP25	P F8 NL	0901 83F88
G 02	3. 917	. 049
G 01 TP26	P F8 NL	0901 83F88
G 02	4. 134	. 049
G 01 TP27	P F8 NL	0901 83F88
G 02	4. 492	. 049
G 01 TP28	P F8 NL	0901 83F88
G 02	4. 502	. 050
G 01 TP29	P F8 NL	0901 83F88
G 02	4. 290	. 050
G 01 TP30	P F8 NL	0901 83F88
G 02	4. 019	. 050
G 01 TP31	P F8 NL	0901 83F88
G 02	3. 978	. 050
G 01 TP32	P F8 NL	0901 83F88
G 02	4. 065	. 050
G 01 TP33	P F8 NL	0901 83F88
G 02	3. 996	. 050
G 01 BTP20	P F8 NL TP20 (SEG B)	0901 83F88
G 02	4. 086	. 050
G 01 BTP21	P F8 NL-60D	0901 83F88
G 02	1. 025	. 050
G 01 BTP22	P F8 NL-60D	0901 83F88
G 02	1. 848	. 050

88 Adjustment 1834B.txt

G 01	BTP23	P F8	NL-60D	0901	83F88
G 02			2. 405		. 049
G 01	BTP24	P F8	NL-60D	0901	83F88
G 02			2. 136		. 049
G 01	BTP25	P F8	NL-60D	0901	83F88
G 02			1. 046		. 049
G 01	BTP26	P F8	NL-PK	0901	83F88
G 02			1. 274		. 048
G 01	BMNW1	P F8	MI SC-MONWELL-5A	0901	83F88
G 99	TOP OF PVC OUTER CASEING 6"				
G 02			5. 306		. 048
G 01	BMNW2	P F8	MI SC-MONWELL-5A	0901	83F88
G 99	TOP OF 2" PVC MONWELL INSIDE OUTER CASEING				
G 02			4. 916		. 047
G 01	BTP27	P F8	NL-PK	0901	83F88
G 02			1. 276		. 047
G 01	BTP28	P F8	NL-60D	0901	83F88
G 02			1. 044		. 046
G 01	BTP29	P F8	NL-60D	0901	83F88
G 02			2. 132		. 046
G 01	BTP30	P F8	NL-60D	0901	83F88
G 02			2. 399		. 045
G 01	BTP31	P F8	NL-60D	0901	83F88
G 02			1. 845		. 044
G 01	BTP32	P F8	NL-60D	0901	83F88
G 02			1. 018		. 043
G 01	BTP33	P F8	NL-PK	0901	83F88
G 02			4. 084		. 042
G 01	BTP34	P F8	NL-PK	0901	83F88
G 02			4. 135		. 041
G 01	BTP35	P F8	NL-PK	0901	83F88
G 02			3. 819		. 040
G 01	BTP36	P F8	NL-PK	0901	83F88
G 02			3. 997		. 039
G 01	BTP37	P F8	NL-PK	0901	83F88
G 02			4. 310		. 038
G 01	BTP38	P F8	NL-PK	0901	83F88
G 02			4. 255		. 036
G 01	BTP39	P F8	NL-PK	0901	83F88
G 02			4. 379		. 035
G 01	BTP40	P F8	NL-PK	0901	83F88
G 02			4. 313		. 033
G 01	BTP41	P F8	NL-PK	0901	83F88
G 02			4. 500		. 031
G 01	BTP42	P F8	NL-PK	0901	83F88
G 02			4. 391		. 029
G 01	BTP43	P F8	NL-PK	0901	83F88
G 02			4. 358		. 027
G 01	BTP44	P F8	NL-PK	0901	83F88
G 02			4. 189		. 024
G 01	BTP45	P F8	NL-PK	0901	83F88
G 02			4. 795		. 021
G 01	BTP46	P F8	NL-PK	0901	83F88
G 02			5. 128		. 017
G 01	BTP47	P F8	NL-PK	0901	83F88
G 02			5. 101		. 012
G 01	BBM2	P F8	CMON-SFWMD-V314	0901	83F88
G 02			6. 170		. 000

29 Adjustment 1834B.txt

1834B. OBS

H 00	1834B			08: 48: 58	11/12/95	08: 48: 58	11/12/95	ENGLISH	2. 55
H 99	LEVEL RUN FOR SFWMD. BISCAYNE BAY COSTAL WETLANDS WELLS								
C 00	08: 51: 36	11/12/95	90	30.0	000001	DF	TB	TD	
C 01	WILD	NA2000	90788					100	
C 13	09: 07: 04	4. 12	4. 94	5. 05	5. 87				
H 99	TASK 9								
S 00	S1					P	F8		
S 01	08: 25: 20	08/25/82	1. 000						
O 00	BM1					P	G1	CMON-F61 1	
O 09	08: 36: 33								3. 081 2. 169 1. 257
O 00	TP1					P	F8	NL	
O 09	08: 39: 05								8. 132 6. 885 5. 638
S 00	S2					P	F8		
S 01	08: 39: 12	08/25/82	1. 000						
O 00	TP1					P	F8	NL	
O 09	08: 42: 39								6. 414 5. 205 3. 996
O 00	TP2					P	F8	NL	
O 09	08: 45: 46								6. 430 5. 203 3. 976
S 00	S3					P	F8		
S 01	08: 45: 53	08/25/82	1. 000						
O 00	TP2					P	F8	NL	
O 09	08: 49: 02								6. 124 4. 859 3. 594
O 00	TP3					P	F8	NL	
O 09	08: 52: 19								6. 247 5. 003 3. 759
S 00	S4					P	F8		
S 01	08: 52: 25	08/25/82	1. 000						
O 00	TP3					P	F8	NL	
O 09	08: 55: 28								6. 521 5. 252 3. 983
O 00	TP4					P	F8	NL	
O 09	08: 58: 26								6. 553 5. 286 4. 019
S 00	S5					P	F8		
S 01	08: 58: 31	08/25/82	1. 000						
O 00	TP4					P	F8	NL	
O 09	09: 01: 24								6. 607 5. 378 4. 149
O 00	TP5					P	F8	NL	
O 09	09: 04: 31								6. 196 4. 940 3. 684
S 00	S6					P	F8		
S 01	09: 04: 37	08/25/82	1. 000						
O 00	TP5					P	F8	NL	
O 09	09: 07: 36								6. 024 4. 785 3. 546
O 00	TP6					P	F8	NL	
O 09	09: 11: 01								5. 799 4. 532 3. 265
S 00	S7					P	F8		
S 01	09: 11: 06	08/25/82	1. 000						
O 00	TP6					P	F8	NL	
O 09	09: 14: 21								6. 176 4. 909 3. 642
O 00	TP7					P	F8	NL	
O 09	09: 17: 54								5. 772 4. 531 3. 290
S 00	S8					P	F8		
S 01	09: 18: 03	08/25/82	1. 000						
O 00	TP7					P	F8	NL	
O 09	09: 23: 46								5. 989 4. 739 3. 489
O 00	TP8					P	F8	NL	
O 09	09: 24: 58								5. 735 4. 461 3. 187
S 00	S9					P	F8		
S 01	09: 25: 05	08/25/82	1. 000						
O 00	TP8					P	F8	NL	
O 09	09: 27: 54								6. 416 5. 153 3. 890
O 00	TP9					P	F8	NL	
O 09	09: 30: 39								6. 577 5. 307 4. 037
S 00	S10					P	F8		
S 01	09: 30: 47	08/25/82	1. 000						
O 00	TP9					P	F8	NL	
O 09	09: 34: 35								6. 834 5. 584 4. 334
O 00	TP10					P	F8	NL	
O 09	09: 37: 32								6. 046 4. 755 3. 464
S 00	S11					P	F8		
S 01	09: 37: 38	08/25/82	1. 000						
O 00	TP10					P	F8	NL	

29 Adjustment 1834B.txt

0 09 09: 40: 36					5.381	4.118	2.855
0 00 TP11				P F8 NL			
0 09 09: 43: 31					5.854	4.587	3.320
S 00 S12				P F8			
S 01 09: 43: 35	08/25/82	1.000					
0 00 TP11				P F8 NL			
0 09 09: 47: 18					6.063	4.780	3.497
0 00 TP12				P F8 NL			
0 09 09: 50: 18					6.091	4.838	3.585
S 00 S13				P F8			
S 01 09: 50: 25	08/25/82	1.000					
0 00 TP12				P F8 NL			
0 09 09: 53: 27					6.359	5.059	3.759
0 00 TP13				P F8 NL			
0 09 09: 56: 11					5.997	4.702	3.407
S 00 S14				P F8			
S 01 09: 56: 16	08/25/82	1.000					
0 00 TP13				P F8 NL			
0 09 10: 00: 20					6.650	5.131	3.612
0 00 TP14				P F8 NL			
0 09 10: 10: 05					9.541	8.028	6.515
S 00 S15				P F8			
S 01 10: 10: 16	08/25/82	1.000					
0 00 TP14				P F8 NL			
0 09 10: 35: 37					6.608	5.426	4.244
0 00 TP15				P F8 NL			
0 09 10: 39: 09					6.659	5.407	4.155
S 00 S16				P F8			
S 01 10: 39: 17	08/25/82	1.000					
0 00 TP15				P F8 NL			
0 09 10: 43: 33					6.227	5.011	3.795
0 00 TP16				P F8 NL			
0 09 10: 46: 43					6.668	5.417	4.166
S 00 S17				P F8			
S 01 10: 46: 57	08/25/82	1.000					
0 00 TP16				P F8 NL			
0 09 10: 51: 17					6.745	5.483	4.221
0 00 TP17				P F8 NL			
0 09 10: 54: 47					6.645	5.393	4.141
S 00 S18				P F8			
S 01 10: 54: 54	08/25/82	1.000					
0 00 TP17				P F8 NL			
0 09 10: 58: 30					6.603	5.331	4.059
0 00 TP18				P F8 NL			
0 09 11: 01: 18					6.390	5.147	3.904
S 00 S19				P F8			
S 01 11: 01: 23	08/25/82	1.000					
0 00 TP18				P F8 NL			
0 09 11: 06: 05					5.795	5.083	4.371
0 00 TP19				P F8 NL			
0 09 11: 07: 54					6.085	5.180	4.275
S 00 S20				P F8			
S 01 11: 08: 03	08/25/82	1.000					
S 00 S20				P F8			
S 01 11: 20: 29	08/25/82	1.000					
S 00 S20				P F8			
S 01 11: 20: 45	08/25/82	1.000					
0 00 TP19				P F8 NL			
0 09 11: 23: 52					5.893	4.656	3.419
0 00 TP20				P F8 NL			
0 09 11: 27: 22					5.997	4.743	3.489
S 00 S21				P F8			
S 01 11: 27: 28	08/25/82	1.000					
0 00 TP20				P F8 NL			
0 09 11: 30: 30					6.575	5.334	4.093
0 00 TP21				P F8 NL			
0 09 11: 33: 51					6.509	5.271	4.033
S 00 S22				P F8			
S 01 11: 33: 58	08/25/82	1.000					
0 00 TP21				P F8 NL			

29 Adjustment 1834B.txt

0 09 11: 37: 36				6. 256	5. 034	3. 812
0 00 TP22	P F8 NL					
0 09 11: 41: 10				6. 321	5. 076	3. 831
S 00 S23	P F8					
S 01 11: 41: 15 08/25/82 1. 000						
0 00 TP22	P F8 NL					
0 09 11: 44: 12				6. 387	5. 142	3. 897
0 00 TP23	P F8 NL					
0 09 11: 47: 22				6. 330	5. 099	3. 868
S 00 S24	P F8					
S 01 11: 47: 27 08/25/82 1. 000						
0 00 TP23	P F8 NL					
0 09 11: 50: 36				6. 555	5. 202	3. 849
0 00 TP24	P F8 NL					
0 09 11: 54: 22				6. 296	4. 977	3. 658
S 00 S25	P F8					
S 01 11: 54: 29 08/25/82 1. 000						
0 00 TP24	P F8 NL					
0 09 11: 56: 57				6. 137	5. 685	5. 233
0 00 TP25	P F8 NL					
0 09 11: 58: 25				3. 660	2. 951	2. 242
S 00 S26	P F8					
S 01 11: 58: 33 08/25/82 1. 000						
0 00 TP25	P F8 NL					
0 09 13: 34: 50				6. 318	5. 069	3. 820
0 00 TP26	P F8 NL					
0 09 13: 36: 19				5. 885	4. 852	3. 819
S 00 S27	P F8					
S 01 13: 36: 25 08/25/82 1. 000						
0 00 TP26	P F8 NL					
0 09 13: 38: 52				6. 671	5. 386	4. 101
0 00 TP27	P F8 NL					
0 09 13: 40: 02				6. 291	5. 028	3. 765
S 00 S28	P F8					
S 01 13: 40: 08 08/25/82 1. 000						
0 00 TP27	P F8 NL					
0 09 13: 42: 03				5. 955	4. 707	3. 459
0 00 TP28	P F8 NL					
0 09 13: 43: 02				6. 058	4. 697	3. 336
S 00 S29	P F8					
S 01 13: 43: 14 08/25/82 1. 000						
0 00 TP28	P F8 NL					
0 09 13: 44: 57				6. 514	5. 289	4. 064
0 00 TP29	P F8 NL					
0 09 13: 45: 55				6. 806	5. 501	4. 196
S 00 S30	P F8					
S 01 13: 46: 00 08/25/82 1. 000						
0 00 TP29	P F8 NL					
0 09 13: 48: 24				5. 969	4. 644	3. 319
0 00 TP30	P F8 NL					
0 09 13: 49: 09				6. 233	4. 915	3. 597
S 00 S31	P F8					
S 01 13: 49: 13 08/25/82 1. 000						
0 00 TP30	P F8 NL					
0 09 13: 51: 07				6. 381	5. 139	3. 897
0 00 TP31	P F8 NL					
0 09 13: 51: 54				6. 518	5. 180	3. 842
S 00 S32	P F8					
S 01 13: 51: 58 08/25/82 1. 000						
0 00 TP31	P F8 NL					
0 09 13: 53: 34				6. 281	5. 057	3. 833
0 00 TP32	P F8 NL					
0 09 13: 54: 16				6. 235	4. 970	3. 705
S 00 S33	P F8					
S 01 13: 54: 24 08/25/82 1. 000						
0 00 TP32	P F8 NL					
0 09 13: 56: 06				6. 274	4. 993	3. 712
0 00 TP33	P F8 NL					
0 09 13: 56: 58				6. 381	5. 061	3. 741
S 00 S34	P F8					

29 Adjustment 1834B.txt

S 01	13: 57: 04	08/25/82	1. 000				
O 00	TP33			P F8 NL			
O 09	13: 59: 04				5. 894	5. 209	4. 524
O 00	BTP20			P F8 NL TP20 (SEG B)			
O 09	13: 59: 57				5. 684	5. 119	4. 554
S 00	S21			P G1			
S 01	10: 57: 19	11/12/95	1. 000				
O 00	BTP20			P F8 NL-PK			
O 09	11: 01: 26				5. 753	4. 206	2. 659
O 00	BTP21			P F8 NL-60D			
O 09	11: 07: 45				8. 801	7. 267	5. 733
S 00	S22			P G1			
S 01	11: 08: 01	11/12/95	1. 000				
O 00	BTP21			P F8 NL-60D			
O 09	12: 16: 38				6. 714	5. 388	4. 062
O 00	BTP22			P F8 NL-60D			
O 09	12: 19: 52				6. 045	4. 565	3. 085
S 00	S23			P G1			
S 01	12: 20: 07	11/12/95	1. 000				
O 00	BTP22			P F8 NL-60D			
O 09	12: 24: 54				5. 842	4. 540	3. 238
O 00	BTP23			P F8 NL-60D			
O 09	12: 27: 13				5. 106	3. 983	2. 860
S 00	S24			P G1			
S 01	12: 27: 25	11/12/95	1. 000				
O 00	BTP23			P F8 NL-60D			
O 09	12: 30: 12				5. 320	4. 264	3. 208
O 00	BTP24			P F8 NL-60D			
O 09	12: 32: 37				5. 750	4. 533	3. 316
S 00	S25			P G1			
S 01	12: 32: 51	11/12/95	1. 000				
O 00	BTP24			P F8 NL-60D			
O 09	12: 36: 08				5. 534	4. 446	3. 358
O 00	BTP25			P F8 NL-60D			
O 09	12: 38: 38				6. 643	5. 536	4. 429
S 00	S26			P G1			
S 01	12: 39: 03	11/12/95	1. 000				
O 00	BTP25			P F8 NL-60D			
O 09	12: 42: 17				5. 929	4. 954	3. 979
O 00	BTP26			P F8 NL-PK			
O 09	12: 44: 52				5. 596	4. 726	3. 856
S 00	S27			P G1			
S 01	12: 45: 18	11/12/95	1. 000				
O 00	BTP26			P F8 NL-PK			
O 09	12: 47: 57				5. 651	5. 538	5. 425
O 00	BMNW1			P F8 MI SC-MONWELL-5A			
O 99	TOP OF PVC OUTER CASEING 6"				1. 644	1. 506	1. 368
O 09	12: 51: 40						
S 00	S28			P G1			
S 01	12: 52: 02	11/12/95	1. 000				
O 00	BMNW1			P F8 MI SC-MONWELL-5A			
O 99	TOP OF PVC OUTER CASEING 6"				1. 885	1. 746	1. 607
O 09	12: 55: 41						
O 00	BMNW2			P F8 MI SC-MONWELL-5A			
O 99	TOP OF 2" PVC MONWELL INSIDE OUTER CASEING				2. 274	2. 136	1. 998
O 09	12: 58: 23						
S 00	S29			P G1			
S 01	12: 58: 42	11/12/95	1. 000				
O 00	BMNW2			P F8 MI SC-MONWELL-5A			
O 99	TOP OF 2" PVC MONWELL INSIDE OUTER CASEING				2. 104	1. 964	1. 824
O 09	12: 59: 32						
O 00	BTP27			P F8 NL-PK			
O 09	13: 06: 10				5. 719	5. 604	5. 489
S 00	S30			P G1			
S 01	13: 06: 16	11/12/95	1. 000				
O 00	BTP27			P F8 NL-PK			
O 09	13: 08: 10				5. 770	4. 920	4. 070
O 00	BTP28			P F8 NL-60D			
O 09	13: 10: 09				6. 145	5. 152	4. 159
S 00	S31			P G1			

29 Adjustment 1834B.txt

S 01	13: 10: 28	11/12/95	1. 000					
O 00	BTP28			P F8	NL-60D			
O 09	13: 13: 01					6. 739	5. 733	4. 727
O 00	BTP29			P F8	NL-60D			
O 09	13: 15: 18					5. 834	4. 644	3. 454
S 00	S32			P	G1			
S 01	13: 15: 33	11/12/95	1. 000					
O 00	BTP29			P F8	NL-60D			
O 09	13: 18: 36					6. 038	4. 823	3. 608
O 00	BTP30			P F8	NL-60D			
O 09	13: 20: 50					5. 617	4. 556	3. 495
S 00	S33			P	G1			
S 01	13: 21: 05	11/12/95	1. 000					
O 00	BTP30			P F8	NL-60D			
O 09	13: 23: 44					5. 482	4. 390	3. 298
O 00	BTP31			P F8	NL-60D			
O 09	13: 25: 53					6. 276	4. 944	3. 612
S 00	S34			P	G1			
S 01	13: 26: 07	11/12/95	1. 000					
O 00	BTP31			P F8	NL-60D			
O 09	13: 29: 33					6. 330	4. 878	3. 426
O 00	BTP32			P F8	NL-60D			
O 09	13: 32: 21					7. 060	5. 705	4. 350
S 00	S35			P	G1			
S 01	13: 32: 37	11/12/95	1. 000					
O 00	BTP32			P F8	NL-60D			
O 09	13: 38: 41					8. 828	7. 247	5. 666
O 00	BTP33			P F8	NL-PK			
O 09	13: 41: 49					5. 722	4. 181	2. 640
S 00	S36			P	G1			
S 01	13: 42: 14	11/12/95	1. 000					
O 00	BTP33			P F8	NL-PK			
O 09	14: 11: 52					5. 881	4. 668	3. 455
O 00	BTP34			P F8	NL-PK			
O 09	14: 13: 32					5. 974	4. 617	3. 260
S 00	S37			P	G1			
S 01	14: 14: 16	11/12/95	1. 000					
O 00	BTP34			P F8	NL-PK			
O 09	14: 16: 19					5. 609	4. 335	3. 061
O 00	BTP35			P F8	NL-PK			
O 09	14: 17: 59					5. 952	4. 651	3. 350
S 00	S38			P	G1			
S 01	14: 18: 10	11/12/95	1. 000					
O 00	BTP35			P F8	NL-PK			
O 09	14: 20: 43					6. 142	4. 882	3. 622
O 00	BTP36			P F8	NL-PK			
O 09	14: 22: 00					5. 979	4. 704	3. 429
S 00	S39			P	G1			
S 01	14: 22: 27	11/12/95	1. 000					
O 00	BTP36			P F8	NL-PK			
O 09	14: 26: 45					5. 992	4. 682	3. 372
O 00	BTP37			P F8	NL-PK			
O 09	14: 27: 52					5. 638	4. 369	3. 100
S 00	S40			P	G1			
S 01	14: 28: 07	11/12/95	1. 000					
O 00	BTP37			P F8	NL-PK			
O 09	14: 32: 35					5. 705	4. 418	3. 131
O 00	BTP38			P F8	NL-PK			
O 09	14: 35: 27					5. 805	4. 473	3. 141
S 00	S41			P	G1			
S 01	14: 35: 49	11/12/95	1. 000					
O 00	BTP38			P F8	NL-PK			
O 09	14: 39: 39					5. 973	4. 648	3. 323
O 00	BTP39			P F8	NL-PK			
O 09	14: 41: 13					5. 840	4. 524	3. 208
S 00	S42			P	G1			
S 01	14: 41: 33	11/12/95	1. 000					
O 00	BTP39			P F8	NL-PK			
O 09	14: 44: 19					5. 742	4. 429	3. 116
O 00	BTP40			P F8	NL-PK			

29 Adjustment 1834B.txt

O 09 14: 46: 14				5. 837	4. 495	3. 153
S 00 S43			P G1			
S 01 14: 46: 45	11/12/95	1. 000				
O 00 BTP40			P F8 NL-PK			
O 09 14: 49: 25				5. 967	4. 563	3. 159
O 00 BTP41			P F8 NL-PK			
O 09 14: 50: 57				5. 630	4. 376	3. 122
S 00 S44			P G1			
S 01 14: 51: 23	11/12/95	1. 000				
O 00 BTP41			P F8 NL-PK			
O 09 14: 54: 14				5. 597	4. 302	3. 007
O 00 BTP42			P F8 NL-PK			
O 09 14: 55: 47				5. 745	4. 410	3. 075
S 00 S45			P G1			
S 01 14: 56: 01	11/12/95	1. 000				
O 00 BTP42			P F8 NL-PK			
O 09 14: 58: 53				5. 836	4. 486	3. 136
O 00 BTP43			P F8 NL-PK			
O 09 15: 00: 17				5. 837	4. 519	3. 201
S 00 S46			P G1			
S 01 15: 00: 59	11/12/95	1. 000				
O 00 BTP43			P F8 NL-PK			
O 09 15: 04: 05				5. 803	4. 510	3. 217
O 00 BTP44			P F8 NL-PK			
O 09 15: 05: 49				6. 028	4. 679	3. 330
S 00 S47			P G1			
S 01 15: 06: 01	11/12/95	1. 000				
O 00 BTP44			P F8 NL-PK			
O 09 15: 09: 22				6. 231	4. 910	3. 589
O 00 BTP45			P F8 NL-PK			
O 09 15: 11: 48				5. 610	4. 304	2. 998
S 00 S48			P G1			
S 01 15: 12: 04	11/12/95	1. 000				
O 00 BTP45			P F8 NL-PK			
O 09 15: 16: 44				6. 225	4. 851	3. 477
O 00 BTP46			P F8 NL-PK			
O 09 15: 19: 02				5. 802	4. 518	3. 234
S 00 S49			P G1			
S 01 15: 19: 22	11/12/95	1. 000				
O 00 BTP46			P F8 NL-PK			
O 09 15: 23: 19				5. 786	4. 462	3. 138
O 00 BTP47			P F8 NL-PK			
O 09 15: 26: 06				5. 807	4. 489	3. 171
S 00 S50			P G1			
S 01 15: 26: 23	11/12/95	1. 000				
O 00 BTP47			P F8 NL-PK			
O 09 15: 29: 43				5. 691	4. 223	2. 755
O 00 BBM2			P F8 CMON-SFWMD-V314			
O 09 15: 31: 18				3. 672	3. 154	2. 636
R 00 00: 00: 00	12/31/99					
R 99 TAPE OBSERVATION DATA STARTS HERE						
C 00 00: 00: 00	12/31/99					
C 99 DUMMY TAPE CALIBRATION TO RE-INITIALIZE COLLIMATION TO ZERO						
C 01 TAPING	TAPING			10	99	100
C 03 00: 00: 00			D	0	0	0.0 90 0 0.0
C 03 00: 00: 00			D	0	0	0.0 90 0 0.0
C 03 00: 00: 00			R	180	0	0.0 270 0 0.0
C 03 00: 00: 00			R	180	0	0.0 270 0 0.0
R 00 00: 00: 00	12/31/99					
R 99 TAPE OBSERVATION DATA ENDS HERE						
R 00 00: 00: 00	12/31/99					
R 99 TAPE TRAVERSE DATA (I. E. CHAINS) START HERE						
R 00 00: 00: 00	12/31/99					
R 99 TAPE TRAVERSE DATA (I. E. CHAINS) ENDS HERE						
R 00 00: 00: 00	12/31/99					
R 99 CHAIN DATA STARTS HERE						
R 00 00: 00: 00	12/31/99					
R 99 CHAIN DATA ENDS HERE						
R 00 00: 00: 00	12/31/99					
R 99 PREFIX DATA STARTS HERE						

P 00

P 01 S50, BBM2, BTP47, BMNW2

' F2- 0 1 " n ' ^ " - € α α x * ` ! - +

" 0 " % ' ^ " - # - | : i | j : - a " x ' ^ " -

R 00 00:00:00 12/31/99

R 99 PREFIX DATA ENDS HERE

1834B.1D

MI SCLOSURE OF MULTIPLE ELEV. DIFFERENCE MEASUREMENTS

STATIONS MI SCLOSURE

END OF MI SCLOSURE REPORT

50 OF 115 STATIONS IDENTIFIED AS VERTICAL SIDESHOTS

BAND IS 1 STATIONS

LEVEL NETWORK ADJUSTMENT

NUMBER OF BENCHMARKS = 2

NUMBER OF STATIONS = 65

NUMBER OF MEASUREMENTS = 64

NUMBER OF REQUIRED TERMS FOR NORMAL EQUATIONS = 129

RESULTS OF ADJUSTMENT

BENCHMARK ELEVATION RESIDUALS

STATION	INPUT ELEV.	ADJUSTED ELEV.	ERROR EST.	RESIDUAL
BM1	8.660	8.660	.000	.000 (.0)
BBM2	7.700	7.700	.000	.000 (.0)

BENCHMARK RMS ERROR = .000 SNOOP RMS = .0
 MAX. BENCHMARK RESIDUAL AT STATION BM1 OF .000

RESIDUALS

FROM	TO	MEASURED	RESIDUAL	EST. ERROR
BM1	TP1	-4.716	.000 (.0)	.010
TP1	TP2	.002	.000 (.0)	.010
TP2	TP3	-.144	.000 (.0)	.010
TP3	TP4	-.034	.000 (.0)	.010
TP4	TP5	.438	.000 (.0)	.010
TP5	TP6	.253	.000 (.0)	.010
TP6	TP7	.378	.000 (.0)	.010
TP7	TP8	.278	.000 (.0)	.010
TP8	TP9	-.154	.000 (.0)	.010
TP9	TP10	.829	.000 (.0)	.010
TP10	TP11	-.469	.000 (.0)	.010
TP11	TP12	-.058	.000 (.0)	.010
TP12	TP13	.357	.000 (.0)	.010
TP13	TP14	-2.897	.000 (.0)	.010
TP14	TP15	.019	.000 (.0)	.010
TP15	TP16	-.406	.000 (.0)	.010
TP16	TP17	.090	.000 (.0)	.010
TP17	TP18	.184	.000 (.0)	.010
TP18	TP19	-.097	.000 (.0)	.010
TP19	TP20	-.087	.000 (.0)	.010
TP20	TP21	.063	.000 (.0)	.010
TP21	TP22	-.042	.000 (.0)	.010
TP22	TP23	.043	.000 (.0)	.010
TP23	TP24	.225	.000 (.0)	.010
TP24	TP25	2.734	.000 (.0)	.010
TP25	TP26	.217	.000 (.0)	.010
TP26	TP27	.358	.000 (.0)	.010
TP27	TP28	.010	.000 (.0)	.010
TP28	TP29	-.212	.000 (.0)	.010
TP29	TP30	-.271	.000 (.0)	.010
TP30	TP31	-.041	.000 (.0)	.010
TP31	TP32	.087	.000 (.0)	.010
TP32	TP33	-.068	.000 (.0)	.010

29 Adjustment 1834B.txt

TP33	BTP20	.090	.000	(.0)	.010
BTP20	BTP21	-3.061	.000	(.0)	.010
BTP21	BTP22	.823	.000	(.0)	.010
BTP22	BTP23	.557	.000	(.0)	.010
BTP23	BTP24	-.269	.000	(.0)	.010
BTP24	BTP25	-1.090	.000	(.0)	.010
BTP25	BTP26	.228	.000	(.0)	.010
BTP26	BMNW1	4.032	.000	(.0)	.010
BMNW1	BMNW2	-.390	.000	(.0)	.010
BMNW2	BTP27	-3.640	.000	(.0)	.010
BTP27	BTP28	-.232	.000	(.0)	.010
BTP28	BTP29	1.089	.000	(.0)	.010
BTP29	BTP30	.267	.000	(.0)	.010
BTP30	BTP31	-.554	.000	(.0)	.010
BTP31	BTP32	-.827	.000	(.0)	.010
BTP32	BTP33	3.066	.000	(.0)	.010
BTP33	BTP34	.051	.000	(.0)	.010
BTP34	BTP35	-.316	.000	(.0)	.010
BTP35	BTP36	.178	.000	(.0)	.010
BTP36	BTP37	.313	.000	(.0)	.010
BTP37	BTP38	-.055	.000	(.0)	.010
BTP38	BTP39	.124	.000	(.0)	.010
BTP39	BTP40	-.066	.000	(.0)	.010
BTP40	BTP41	.187	.000	(.0)	.010
BTP41	BTP42	-.108	.000	(.0)	.010
BTP42	BTP43	-.033	.000	(.0)	.010
BTP43	BTP44	-.169	.000	(.0)	.010
BTP44	BTP45	.606	.000	(.0)	.010
BTP45	BTP46	.333	.000	(.0)	.010
BTP46	BTP47	-.027	.000	(.0)	.010
BTP47	BBM2	1.069	.000	(.0)	.010

ELEV. DIFF. RMS ERROR = .000 SNOOP RMS = .0
 MAX. ELEV. DIFF. RESIDUAL BTP26 - BMNW1 OF .000

95% CONFIDENCE F STATISTIC STANDARD ERROR MULTIPLIER FOR 1 D.F. IS 20.00

STATION	ADJUSTED ELEV.	STANDARD ERROR
BM1	8.660	.000
TP1	3.944	.012
TP2	3.946	.017
TP3	3.802	.021
TP4	3.768	.024
TP5	4.206	.027
TP6	4.459	.029
TP7	4.836	.031
TP8	5.114	.033
TP9	4.960	.035
TP10	5.789	.036
TP11	5.320	.038
TP12	5.262	.039
TP13	5.619	.040
TP14	2.722	.041
TP15	2.741	.042
TP16	2.335	.043
TP17	2.425	.044
TP18	2.609	.045
TP19	2.512	.046
TP20	2.424	.046
TP21	2.487	.047
TP22	2.445	.047
TP23	2.488	.048
TP24	2.713	.048
TP25	5.447	.049
TP26	5.664	.049
TP27	6.022	.049
TP28	6.032	.050
TP29	5.820	.050

29 Adjustment 1834B.txt

TP30	5.549	.050
TP31	5.508	.050
TP32	5.595	.050
TP33	5.526	.050
BTP20	5.616	.050
BTP21	2.555	.050
BTP22	3.378	.050
BTP23	3.935	.049
BTP24	3.666	.049
BTP25	2.576	.049
BTP26	2.804	.048
BMNW1	6.836	.048
BMNW2	6.446	.047
BTP27	2.806	.047
BTP28	2.574	.046
BTP29	3.662	.046
BTP30	3.929	.045
BTP31	3.375	.044
BTP32	2.548	.043
BTP33	5.614	.042
BTP34	5.665	.041
BTP35	5.349	.040
BTP36	5.527	.039
BTP37	5.840	.038
BTP38	5.785	.036
BTP39	5.909	.035
BTP40	5.843	.033
BTP41	6.030	.031
BTP42	5.921	.029
BTP43	5.888	.027
BTP44	5.719	.024
BTP45	6.325	.021
BTP46	6.658	.017
BTP47	6.631	.012
BBM2	7.700	.000

STANDARD ERROR OF UNIT WEIGHT IS .062
 WITH 1 DEGREES OF FREEDOM

CHI SQUARED TEST ON ANALYSIS
 .031 < .062 < 1.960
 (LOW) (HIGH)
 PASSES AT THE 5 % SIGNIFICANCE LEVEL

1834B. CHL
 PROJECT NAME IS 1834B

ELEVATION CLOSURE REPORT
 SUM OF DISTANCES ALONG SURVEY IS 30266.500
 CLOSURE IN ELEVATION (Z) = -.005
 CLOSURE PER STATION = .000
 PRECISION = 1 / 6053300.

STATION	ELEVATION (Z)
BM1	8.660
TP1	3.944
TP2	3.946
TP3	3.802
TP4	3.768
TP5	4.206
TP6	4.459
TP7	4.836
TP8	5.114
TP9	4.960
TP10	5.789
TP11	5.320
TP12	5.262
TP13	5.619
TP14	2.722
TP15	2.741

29 Adjustment 1834B.txt

TP16	2.335
TP17	2.425
TP18	2.609
TP19	2.512
TP20	2.424
TP21	2.487
TP22	2.445
TP23	2.488
TP24	2.713
TP25	5.447
TP26	5.664
TP27	6.022
TP28	6.032
TP29	5.820
TP30	5.549
TP31	5.508
TP32	5.595
TP33	5.526
BTP20	5.616
BTP21	2.555
BTP22	3.378
BTP23	3.935
BTP24	3.666
BTP25	2.576
BTP26	2.804
BMNW1	6.836
BMNW2	6.446
BTP27	2.806
BTP28	2.574
BTP29	3.662
BTP30	3.929
BTP31	3.375
BTP32	2.548
BTP33	5.614
BTP34	5.665
BTP35	5.349
BTP36	5.527
BTP37	5.840
BTP38	5.785
BTP39	5.909
BTP40	5.843
BTP41	6.030
BTP42	5.921
BTP43	5.888
BTP44	5.719
BTP45	6.325
BTP46	6.658
BTP47	6.631
BBM2	7.700

TOTAL LENGTH OF EVALUATED SURVEY DISTANCE = 5.732 MILES
 OVERALL PRECISION = 1 / 6053300.

1834B. CTLG 00 1834B			
G 01 BM1	BM1	P F8 IRC F61-1	0901 83F29
G 02		8.6600	.0001
G 01 BBM2	BBM2	P F8 IRC V-314	0901 83F29
G 02		7.7000	.0001

1834B. XYZ	1834B. XYZ		
G 00			
G 01 BM1		P G1 CMON-f61 1	0901 83F29
G 02		8.660	.000
G 01 TP1		P F8 NL	0901 83F29
G 02		3.944	.012
G 01 TP2		P F8 NL	0901 83F29
G 02		3.946	.017

29 Adjustment 1834B.txt

G 01 TP3	P F8 NL	0901 83F29
G 02	3. 802	. 021
G 01 TP4	P F8 NL	0901 83F29
G 02	3. 768	. 024
G 01 TP5	P F8 NL	0901 83F29
G 02	4. 206	. 027
G 01 TP6	P F8 NL	0901 83F29
G 02	4. 459	. 029
G 01 TP7	P F8 NL	0901 83F29
G 02	4. 836	. 031
G 01 TP8	P F8 NL	0901 83F29
G 02	5. 114	. 033
G 01 TP9	P F8 NL	0901 83F29
G 02	4. 960	. 035
G 01 TP10	P F8 NL	0901 83F29
G 02	5. 789	. 036
G 01 TP11	P F8 NL	0901 83F29
G 02	5. 320	. 038
G 01 TP12	P F8 NL	0901 83F29
G 02	5. 262	. 039
G 01 TP13	P F8 NL	0901 83F29
G 02	5. 619	. 040
G 01 TP14	P F8 NL	0901 83F29
G 02	2. 722	. 041
G 01 TP15	P F8 NL	0901 83F29
G 02	2. 741	. 042
G 01 TP16	P F8 NL	0901 83F29
G 02	2. 335	. 043
G 01 TP17	P F8 NL	0901 83F29
G 02	2. 425	. 044
G 01 TP18	P F8 NL	0901 83F29
G 02	2. 609	. 045
G 01 TP19	P F8 NL	0901 83F29
G 02	2. 512	. 046
G 01 TP20	P F8 NL	0901 83F29
G 02	2. 424	. 046
G 01 TP21	P F8 NL	0901 83F29
G 02	2. 487	. 047
G 01 TP22	P F8 NL	0901 83F29
G 02	2. 445	. 047
G 01 TP23	P F8 NL	0901 83F29
G 02	2. 488	. 048
G 01 TP24	P F8 NL	0901 83F29
G 02	2. 713	. 048
G 01 TP25	P F8 NL	0901 83F29
G 02	5. 447	. 049
G 01 TP26	P F8 NL	0901 83F29
G 02	5. 664	. 049
G 01 TP27	P F8 NL	0901 83F29
G 02	6. 022	. 049
G 01 TP28	P F8 NL	0901 83F29
G 02	6. 032	. 050
G 01 TP29	P F8 NL	0901 83F29
G 02	5. 820	. 050
G 01 TP30	P F8 NL	0901 83F29
G 02	5. 549	. 050
G 01 TP31	P F8 NL	0901 83F29
G 02	5. 508	. 050
G 01 TP32	P F8 NL	0901 83F29
G 02	5. 595	. 050
G 01 TP33	P F8 NL	0901 83F29
G 02	5. 526	. 050
G 01 BTP20	P F8 NL TP20 (SEG B)	0901 83F29
G 02	5. 616	. 050
G 01 BTP21	P F8 NL-60D	0901 83F29
G 02	2. 555	. 050
G 01 BTP22	P F8 NL-60D	0901 83F29
G 02	3. 378	. 050
G 01 BTP23	P F8 NL-60D	0901 83F29
G 02	3. 935	. 049

29 Adjustment 1834B.txt

G 01	BTP24	P F8	NL-60D	0901	83F29
G 02			3.666		.049
G 01	BTP25	P F8	NL-60D	0901	83F29
G 02			2.576		.049
G 01	BTP26	P F8	NL-PK	0901	83F29
G 02			2.804		.048
G 01	BMNW1	P F8	MI SC-MONWELL-5A	0901	83F29
G 99	TOP OF PVC OUTER CASEING 6"				
G 02			6.836		.048
G 01	BMNW2	P F8	MI SC-MONWELL-5A	0901	83F29
G 99	TOP OF 2" PVC MONWELL INSIDE OUTER CASEING				
G 02			6.446		.047
G 01	BTP27	P F8	NL-PK	0901	83F29
G 02			2.806		.047
G 01	BTP28	P F8	NL-60D	0901	83F29
G 02			2.574		.046
G 01	BTP29	P F8	NL-60D	0901	83F29
G 02			3.662		.046
G 01	BTP30	P F8	NL-60D	0901	83F29
G 02			3.929		.045
G 01	BTP31	P F8	NL-60D	0901	83F29
G 02			3.375		.044
G 01	BTP32	P F8	NL-60D	0901	83F29
G 02			2.548		.043
G 01	BTP33	P F8	NL-PK	0901	83F29
G 02			5.614		.042
G 01	BTP34	P F8	NL-PK	0901	83F29
G 02			5.665		.041
G 01	BTP35	P F8	NL-PK	0901	83F29
G 02			5.349		.040
G 01	BTP36	P F8	NL-PK	0901	83F29
G 02			5.527		.039
G 01	BTP37	P F8	NL-PK	0901	83F29
G 02			5.840		.038
G 01	BTP38	P F8	NL-PK	0901	83F29
G 02			5.785		.036
G 01	BTP39	P F8	NL-PK	0901	83F29
G 02			5.909		.035
G 01	BTP40	P F8	NL-PK	0901	83F29
G 02			5.843		.033
G 01	BTP41	P F8	NL-PK	0901	83F29
G 02			6.030		.031
G 01	BTP42	P F8	NL-PK	0901	83F29
G 02			5.921		.029
G 01	BTP43	P F8	NL-PK	0901	83F29
G 02			5.888		.027
G 01	BTP44	P F8	NL-PK	0901	83F29
G 02			5.719		.024
G 01	BTP45	P F8	NL-PK	0901	83F29
G 02			6.325		.021
G 01	BTP46	P F8	NL-PK	0901	83F29
G 02			6.658		.017
G 01	BTP47	P F8	NL-PK	0901	83F29
G 02			6.631		.012
G 01	BBM2	P F8	CMON-SFWMD-V314	0901	83F29
G 02			7.700		.000

88 Adjustment 1834C.txt

1834C. OBS

Time	Date	Rate	Code	Station	Value 1	Value 2	Value 3
H 00	08: 23: 38 08/25/82	08: 23: 38 08/25/82	ENGLISH		2.55		
H 99	bi scayne bay wells						
C 00	08: 24: 57 08/25/82	90 30.0	000001	SH CC JS			
C 01	WILD NA2000	91119		100			
S 00	S1		P F8				
S 01	08: 25: 20 08/25/82	1.000					
O 00	BM1		P G1	CMON-f61 1			
O 09	08: 36: 33				3.081	2.169	1.257
O 00	TP1		P F8	NL			
O 09	08: 39: 05				8.132	6.885	5.638
S 00	S2		P F8				
S 01	08: 39: 12 08/25/82	1.000					
O 00	TP1		P F8	NL			
O 09	08: 42: 39				6.414	5.205	3.996
O 00	TP2		P F8	NL			
O 09	08: 45: 46				6.430	5.203	3.976
S 00	S3		P F8				
S 01	08: 45: 53 08/25/82	1.000					
O 00	TP2		P F8	NL			
O 09	08: 49: 02				6.124	4.859	3.594
O 00	TP3		P F8	NL			
O 09	08: 52: 19				6.247	5.003	3.759
S 00	S4		P F8				
S 01	08: 52: 25 08/25/82	1.000					
O 00	TP3		P F8	NL			
O 09	08: 55: 28				6.521	5.252	3.983
O 00	TP4		P F8	NL			
O 09	08: 58: 26				6.553	5.286	4.019
S 00	S5		P F8				
S 01	08: 58: 31 08/25/82	1.000					
O 00	TP4		P F8	NL			
O 09	09: 01: 24				6.607	5.378	4.149
O 00	TP5		P F8	NL			
O 09	09: 04: 31				6.196	4.940	3.684
S 00	S6		P F8				
S 01	09: 04: 37 08/25/82	1.000					
O 00	TP5		P F8	NL			
O 09	09: 07: 36				6.024	4.785	3.546
O 00	TP6		P F8	NL			
O 09	09: 11: 01				5.799	4.532	3.265
S 00	S7		P F8				
S 01	09: 11: 06 08/25/82	1.000					
O 00	TP6		P F8	NL			
O 09	09: 14: 21				6.176	4.909	3.642
O 00	TP7		P F8	NL			
O 09	09: 17: 54				5.772	4.531	3.290
S 00	S8		P F8				
S 01	09: 18: 03 08/25/82	1.000					
O 00	TP7		P F8	NL			
O 09	09: 23: 46				5.989	4.739	3.489
O 00	TP8		P F8	NL			
O 09	09: 24: 58				5.735	4.461	3.187
S 00	S9		P F8				
S 01	09: 25: 05 08/25/82	1.000					
O 00	TP8		P F8	NL			
O 09	09: 27: 54				6.416	5.153	3.890
O 00	TP9		P F8	NL			
O 09	09: 30: 39				6.577	5.307	4.037
S 00	S10		P F8				
S 01	09: 30: 47 08/25/82	1.000					
O 00	TP9		P F8	NL			
O 09	09: 34: 35				6.834	5.584	4.334
O 00	TP10		P F8	NL			
O 09	09: 37: 32				6.046	4.755	3.464
S 00	S11		P F8				
S 01	09: 37: 38 08/25/82	1.000					
O 00	TP10		P F8	NL			
O 09	09: 40: 36				5.381	4.118	2.855
O 00	TP11		P F8	NL			

88 Adjustment 1834C.txt

0 09 09: 43: 31					5. 854	4. 587	3. 320
S 00 S12				P F8			
S 01 09: 43: 35	08/25/82	1. 000					
0 00 TP11				P F8 NL			
0 09 09: 47: 18					6. 063	4. 780	3. 497
0 00 TP12				P F8 NL			
0 09 09: 50: 18					6. 091	4. 838	3. 585
S 00 S13				P F8			
S 01 09: 50: 25	08/25/82	1. 000					
0 00 TP12				P F8 NL			
0 09 09: 53: 27					6. 359	5. 059	3. 759
0 00 TP13				P F8 NL			
0 09 09: 56: 11					5. 997	4. 702	3. 407
S 00 S14				P F8			
S 01 09: 56: 16	08/25/82	1. 000					
0 00 TP13				P F8 NL			
0 09 10: 00: 20					6. 650	5. 131	3. 612
0 00 TP14				P F8 NL			
0 09 10: 10: 05					9. 541	8. 028	6. 515
S 00 S15				P F8			
S 01 10: 10: 16	08/25/82	1. 000					
0 00 TP14				P F8 NL			
0 09 10: 35: 37					6. 608	5. 426	4. 244
0 00 TP15				P F8 NL			
0 09 10: 39: 09					6. 659	5. 407	4. 155
S 00 S16				P F8			
S 01 10: 39: 17	08/25/82	1. 000					
0 00 TP15				P F8 NL			
0 09 10: 43: 33					6. 227	5. 011	3. 795
0 00 TP16				P F8 NL			
0 09 10: 46: 43					6. 668	5. 417	4. 166
S 00 S17				P F8			
S 01 10: 46: 57	08/25/82	1. 000					
0 00 TP16				P F8 NL			
0 09 10: 51: 17					6. 745	5. 483	4. 221
0 00 TP17				P F8 NL			
0 09 10: 54: 47					6. 645	5. 393	4. 141
S 00 S18				P F8			
S 01 10: 54: 54	08/25/82	1. 000					
0 00 TP17				P F8 NL			
0 09 10: 58: 30					6. 603	5. 331	4. 059
0 00 TP18				P F8 NL			
0 09 11: 01: 18					6. 390	5. 147	3. 904
S 00 S19				P F8			
S 01 11: 01: 23	08/25/82	1. 000					
0 00 TP18				P F8 NL			
0 09 11: 06: 05					5. 795	5. 083	4. 371
0 00 TP19				P F8 NL			
0 09 11: 07: 54					6. 085	5. 180	4. 275
S 00 S20				P F8			
S 01 11: 08: 03	08/25/82	1. 000					
S 00 S20				P F8			
S 01 11: 20: 29	08/25/82	1. 000					
S 00 S20				P F8			
S 01 11: 20: 45	08/25/82	1. 000					
0 00 TP19				P F8 NL			
0 09 11: 23: 52					5. 893	4. 656	3. 419
0 00 TP20				P F8 NL			
0 09 11: 27: 22					5. 997	4. 743	3. 489
S 00 S21				P F8			
S 01 11: 27: 28	08/25/82	1. 000					
0 00 TP20				P F8 NL			
0 09 11: 30: 30					6. 575	5. 334	4. 093
0 00 TP21				P F8 NL			
0 09 11: 33: 51					6. 509	5. 271	4. 033
S 00 S22				P F8			
S 01 11: 33: 58	08/25/82	1. 000					
0 00 TP21				P F8 NL			
0 09 11: 37: 36					6. 256	5. 034	3. 812
0 00 TP22				P F8 NL			

88 Adjustment 1834C.txt

0 09 11: 41: 10					6. 321	5. 076	3. 831
S 00 S23				P F8			
S 01 11: 41: 15	08/25/82	1. 000					
0 00 TP22				P F8 NL			
0 09 11: 44: 12					6. 387	5. 142	3. 897
0 00 TP23				P F8 NL			
0 09 11: 47: 22					6. 330	5. 099	3. 868
S 00 S24				P F8			
S 01 11: 47: 27	08/25/82	1. 000					
0 00 TP23				P F8 NL			
0 09 11: 50: 36					6. 555	5. 202	3. 849
0 00 TP24				P F8 NL			
0 09 11: 54: 22					6. 296	4. 977	3. 658
S 00 S25				P F8			
S 01 11: 54: 29	08/25/82	1. 000					
0 00 TP24				P F8 NL			
0 09 11: 56: 57					6. 137	5. 685	5. 233
0 00 TP25				P F8 NL			
0 09 11: 58: 25					3. 660	2. 951	2. 242
S 00 S26				P F8			
S 01 11: 58: 33	08/25/82	1. 000					
0 00 TP25				P F8 NL			
0 09 13: 34: 50					6. 318	5. 069	3. 820
0 00 TP26				P F8 NL			
0 09 13: 36: 19					5. 885	4. 852	3. 819
S 00 S27				P F8			
S 01 13: 36: 25	08/25/82	1. 000					
0 00 TP26				P F8 NL			
0 09 13: 38: 52					6. 671	5. 386	4. 101
0 00 TP27				P F8 NL			
0 09 13: 40: 02					6. 291	5. 028	3. 765
S 00 S28				P F8			
S 01 13: 40: 08	08/25/82	1. 000					
0 00 TP27				P F8 NL			
0 09 13: 42: 03					5. 955	4. 707	3. 459
0 00 TP28				P F8 NL			
0 09 13: 43: 02					6. 058	4. 697	3. 336
S 00 S29				P F8			
S 01 13: 43: 14	08/25/82	1. 000					
0 00 TP28				P F8 NL			
0 09 13: 44: 57					6. 514	5. 289	4. 064
0 00 TP29				P F8 NL			
0 09 13: 45: 55					6. 806	5. 501	4. 196
S 00 S30				P F8			
S 01 13: 46: 00	08/25/82	1. 000					
0 00 TP29				P F8 NL			
0 09 13: 48: 24					5. 969	4. 644	3. 319
0 00 TP30				P F8 NL			
0 09 13: 49: 09					6. 233	4. 915	3. 597
S 00 S31				P F8			
S 01 13: 49: 13	08/25/82	1. 000					
0 00 TP30				P F8 NL			
0 09 13: 51: 07					6. 381	5. 139	3. 897
0 00 TP31				P F8 NL			
0 09 13: 51: 54					6. 518	5. 180	3. 842
S 00 S32				P F8			
S 01 13: 51: 58	08/25/82	1. 000					
0 00 TP31				P F8 NL			
0 09 13: 53: 34					6. 281	5. 057	3. 833
0 00 TP32				P F8 NL			
0 09 13: 54: 16					6. 235	4. 970	3. 705
S 00 S33				P F8			
S 01 13: 54: 24	08/25/82	1. 000					
0 00 TP32				P F8 NL			
0 09 13: 56: 06					6. 274	4. 993	3. 712
0 00 TP33				P F8 NL			
0 09 13: 56: 58					6. 381	5. 061	3. 741
S 00 S34				P F8			
S 01 13: 57: 04	08/25/82	1. 000					
0 00 TP33				P F8 NL			

88 Adjustment 1834C.txt

```

O 09 13:59:04
O 00 TP34
O 09 13:59:57
SD00 S35
SD01 14:00:06 08/25/82 1.000
C 00 16:33:23 08/26/82 90 30.0 000001 SH CC JS
C 01 WILD NA2000 91119 100
S 00 S36
S 01 16:33:57 08/26/82 1.000
O 00 TP19
O 09 16:54:36
O 09 17:01:29
O 00 MW1
O 09 17:00:17
O 00 GND1
O 09 17:01:05
C 00 11:11:28 08/27/82 90 30.0 000001 SH CC JS
C 01 WILD NA2000 91119 100
C 00 11:11:29 08/27/82 90 30.0 000001 SH CC JS
C 01 WILD NA2000 91119 100
S 00 S37
S 01 11:11:50 08/27/82 1.000
O 00 TP25
O 09 11:15:07
O 00 BM2
O 09 11:16:23
R 00 00:00:00 12/31/99
R 99 TAPE OBSERVATION DATA STARTS HERE
C 00 00:00:00 12/31/99
C 99 DUMMY TAPE CALIBRATION TO RE-INITIALIZE COLLIMATION TO ZERO
C 01 TAPING TAPING 10 99 100
C 03 00:00:00 D 0 0 0.0 90 0 0.0
C 03 00:00:00 D 0 0 0.0 90 0 0.0
C 03 00:00:00 R 180 0 0.0 270 0 0.0
C 03 00:00:00 R 180 0 0.0 270 0 0.0
R 00 00:00:00 12/31/99
R 99 TAPE OBSERVATION DATA ENDS HERE
R 00 00:00:00 12/31/99
R 99 TAPE TRAVERSE DATA (I. E. CHAINS) START HERE
R 00 00:00:00 12/31/99
R 99 TAPE TRAVERSE DATA (I. E. CHAINS) ENDS HERE
R 00 00:00:00 12/31/99
R 99 CHAIN DATA STARTS HERE
R 00 00:00:00 12/31/99
R 99 CHAIN DATA ENDS HERE
R 00 00:00:00 12/31/99
R 99 PREFIX DATA STARTS HERE
P 00
P 01 S37, BM2, TP34, MW1, GND1
' ¡F2- 7¶"ñT' ¡^"- €α α x*¡|— " 0"¼L' ¡^"-ß— |Û-i|jÛ-â" x'L' ¡^"-
R 00 00:00:00 12/31/99
R 99 PREFIX DATA ENDS HERE

```

1834C. 1D
MISCLOSURE OF MULTIPLE ELEV. DIFFERENCE MEASUREMENTS
STATIONS MISCLOSURE
END OF MISCLOSURE REPORT

47 OF 74 STATIONS IDENTIFIED AS VERTICAL SIDESHOTS
BAND IS 1 STATIONS
LEVEL NETWORK ADJUSTMENT

NUMBER OF BENCHMARKS = 2
NUMBER OF STATIONS = 27
NUMBER OF MEASUREMENTS = 26
NUMBER OF REQUIRED TERMS FOR NORMAL EQUATIONS = 53

RESULTS OF ADJUSTMENT

BENCHMARK ELEVATION RESIDUALS

88 Adjustment 1834C.txt

STATION	INPUT ELEV.	ADJUSTED ELEV.	ERROR EST.	RESIDUAL
BM1	7.130	7.130	.000	.000 (.0)
BM2	3.050	3.050	.000	.000 (.0)

BENCHMARK RMS ERROR = .000 SNOOP RMS = .0
 MAX. BENCHMARK RESIDUAL AT STATION BM2 OF .000

RESIDUALS

FROM	TO	MEASURED	RESIDUAL	EST. ERROR
BM1	TP1	-4.716	.000 (.0)	.010
TP1	TP2	.002	.000 (.0)	.010
TP2	TP3	-.144	.000 (.0)	.010
TP3	TP4	-.034	.000 (.0)	.010
TP4	TP5	.438	.000 (.0)	.010
TP5	TP6	.253	.000 (.0)	.010
TP6	TP7	.378	.000 (.0)	.010
TP7	TP8	.278	.000 (.0)	.010
TP8	TP9	-.154	.000 (.0)	.010
TP9	TP10	.829	.000 (.0)	.010
TP10	TP11	-.469	.000 (.0)	.010
TP11	TP12	-.058	.000 (.0)	.010
TP12	TP13	.357	.000 (.0)	.010
TP13	TP14	-2.897	.000 (.0)	.010
TP14	TP15	.019	.000 (.0)	.010
TP15	TP16	-.406	.000 (.0)	.010
TP16	TP17	.090	.000 (.0)	.010
TP17	TP18	.184	.000 (.0)	.010
TP18	TP19	-.097	.000 (.0)	.010
TP19	TP20	-.087	.000 (.0)	.010
TP20	TP21	.063	.000 (.0)	.010
TP21	TP22	-.042	.000 (.0)	.010
TP22	TP23	.043	.000 (.0)	.010
TP23	TP24	.225	.000 (.0)	.010
TP24	TP25	2.734	.000 (.0)	.010
TP25	BM2	-.861	.000 (.0)	.010

ELEV. DIFF. RMS ERROR = .000 SNOOP RMS = .0
 MAX. ELEV. DIFF. RESIDUAL TP25 - BM2 OF .000

95% CONFIDENCE F STATISTIC STANDARD ERROR MULTIPLIER FOR 1 D.F. IS 20.00

STATION	ADJUSTED ELEV.	STANDARD ERROR
BM1	7.130	.000
TP1	2.414	.031
TP2	2.415	.043
TP3	2.271	.051
TP4	2.237	.058
TP5	2.674	.063
TP6	2.927	.067
TP7	3.305	.071
TP8	3.583	.074
TP9	3.428	.076
TP10	4.257	.078
TP11	3.788	.079
TP12	3.729	.080
TP13	4.086	.080
TP14	1.189	.080
TP15	1.207	.079
TP16	.801	.078
TP17	.891	.076
TP18	1.074	.074
TP19	.977	.071
TP20	.890	.067

88 Adjustment 1834C.txt

TP21	.953	.063
TP22	.910	.058
TP23	.953	.051
TP24	1.178	.043
TP25	3.911	.031
BM2	3.050	.000

STANDARD ERROR OF UNIT WEIGHT IS .157
WITH 1 DEGREES OF FREEDOM

CHI SQUARED TEST ON ANALYSIS
.031 < .157 < 1.960
(LOW) (HIGH)
PASSES AT THE 5 % SIGNIFICANCE LEVEL

1834C. CHL

PROJECT NAME IS 1834C

ELEVATION CLOSURE REPORT

SUM OF DISTANCES ALONG SURVEY IS 12170.000

CLOSURE IN ELEVATION (Z) = -.008

CLOSURE PER STATION = .000

PRECISION = 1 / 1521250.

STATION	ELEVATION (Z)
BM1	7.130
TP1	2.414
TP2	2.415
TP3	2.271
TP4	2.237
TP5	2.674
TP6	2.927
TP7	3.305
TP8	3.583
TP9	3.428
TP10	4.257
TP11	3.788
TP12	3.729
TP13	4.086
TP14	1.189
TP15	1.207
TP16	.801
TP17	.891
TP18	1.074
TP19	.977
TP20	.890
TP21	.953
TP22	.910
TP23	.953
TP24	1.178
TP25	3.911
BM2	3.050

TOTAL LENGTH OF EVALUATED SURVEY DISTANCE = 2.305 MILES
OVERALL PRECISION = 1 / 1521250.

1834C. CTL

G 00	1834C			
G 01	BM1	BM1	P F8 IRC F61-147	0901 83F88
G 02			7.1300	.0001
G 01	BM2	BM2	P F8 IRC F-59	0901 83F88
G 02			3.0500	.0001

1834C. XYZ

G 00	1834C. XYZ			
G 01	BM1		P G1 CMON-f61 1	0901 83F88
G 02			7.130	.000

88 Adjustment 1834C.txt

G 01	TP1	P F8 NL	0901 83F88
G 02		2. 414	. 031
G 01	TP2	P F8 NL	0901 83F88
G 02		2. 415	. 043
G 01	TP3	P F8 NL	0901 83F88
G 02		2. 271	. 051
G 01	TP4	P F8 NL	0901 83F88
G 02		2. 237	. 058
G 01	TP5	P F8 NL	0901 83F88
G 02		2. 674	. 063
G 01	TP6	P F8 NL	0901 83F88
G 02		2. 927	. 067
G 01	TP7	P F8 NL	0901 83F88
G 02		3. 305	. 071
G 01	TP8	P F8 NL	0901 83F88
G 02		3. 583	. 074
G 01	TP9	P F8 NL	0901 83F88
G 02		3. 428	. 076
G 01	TP10	P F8 NL	0901 83F88
G 02		4. 257	. 078
G 01	TP11	P F8 NL	0901 83F88
G 02		3. 788	. 079
G 01	TP12	P F8 NL	0901 83F88
G 02		3. 729	. 080
G 01	TP13	P F8 NL	0901 83F88
G 02		4. 086	. 080
G 01	TP14	P F8 NL	0901 83F88
G 02		1. 189	. 080
G 01	TP15	P F8 NL	0901 83F88
G 02		1. 207	. 079
G 01	TP16	P F8 NL	0901 83F88
G 02		. 801	. 078
G 01	TP17	P F8 NL	0901 83F88
G 02		. 891	. 076
G 01	TP18	P F8 NL	0901 83F88
G 02		1. 074	. 074
G 01	TP19	P F8 NL	0901 83F88
G 02		. 977	. 071
G 01	TP20	P F8 NL	0901 83F88
G 02		. 890	. 067
G 01	TP21	P F8 NL	0901 83F88
G 02		. 953	. 063
G 01	TP22	P F8 NL	0901 83F88
G 02		. 910	. 058
G 01	TP23	P F8 NL	0901 83F88
G 02		. 953	. 051
G 01	TP24	P F8 NL	0901 83F88
G 02		1. 178	. 043
G 01	TP25	P F8 NL	0901 83F88
G 02		3. 911	. 031
G 01	TP26	P F8 NL	0901 83F88
G 02		4. 128	
G 01	TP27	P F8 NL	0901 83F88
G 02		4. 486	
G 01	TP28	P F8 NL	0901 83F88
G 02		4. 496	
G 01	TP29	P F8 NL	0901 83F88
G 02		4. 284	
G 01	TP30	P F8 NL	0901 83F88
G 02		4. 013	
G 01	TP31	P F8 NL	0901 83F88
G 02		3. 972	
G 01	TP32	P F8 NL	0901 83F88
G 02		4. 059	
G 01	TP33	P F8 NL	0901 83F88
G 02		3. 991	
G 01	TP34	P F8 NL TP20 (SEG B)	0901 83F88
G 02		4. 081	
G 01	MW1	P F8 MW-bbcwmw4a	0901 83F88
G 02		3. 292	

88 Adjustment 1834C.txt

G 01	GND1	P G1	GND	0901	83F88
G 02			1.284		
G 01	BM2	P F8	pi p-f59	0901	83F88
G 02			3.050		.000

29 Adjustment 1834C.txt

1834C. OBS

H 00	1834C			08: 23: 38	08/25/82		08: 23: 38	08/25/82	ENGLISH	2. 55
H 99	bi scayne bay wells									
C 00	08: 24: 57	08/25/82	90	30. 0	000001	SH	CC	JS		
C 01	WILD	NA2000		91119				100		
S 00	S1					P	F8			
S 01	08: 25: 20	08/25/82	1. 000							
O 00	BM1					P	G1	CMON-f61 1		
O 09	08: 36: 33								3. 081	2. 169
O 00	TP1					P	F8	NL		1. 257
O 09	08: 39: 05								8. 132	6. 885
S 00	S2					P	F8			5. 638
S 01	08: 39: 12	08/25/82	1. 000							
O 00	TP1					P	F8	NL		
O 09	08: 42: 39								6. 414	5. 205
O 00	TP2					P	F8	NL		3. 996
O 09	08: 45: 46								6. 430	5. 203
S 00	S3					P	F8			3. 976
S 01	08: 45: 53	08/25/82	1. 000							
O 00	TP2					P	F8	NL		
O 09	08: 49: 02								6. 124	4. 859
O 00	TP3					P	F8	NL		3. 594
O 09	08: 52: 19								6. 247	5. 003
S 00	S4					P	F8			3. 759
S 01	08: 52: 25	08/25/82	1. 000							
O 00	TP3					P	F8	NL		
O 09	08: 55: 28								6. 521	5. 252
O 00	TP4					P	F8	NL		3. 983
O 09	08: 58: 26								6. 553	5. 286
S 00	S5					P	F8			4. 019
S 01	08: 58: 31	08/25/82	1. 000							
O 00	TP4					P	F8	NL		
O 09	09: 01: 24								6. 607	5. 378
O 00	TP5					P	F8	NL		4. 149
O 09	09: 04: 31								6. 196	4. 940
S 00	S6					P	F8			3. 684
S 01	09: 04: 37	08/25/82	1. 000							
O 00	TP5					P	F8	NL		
O 09	09: 07: 36								6. 024	4. 785
O 00	TP6					P	F8	NL		3. 546
O 09	09: 11: 01								5. 799	4. 532
S 00	S7					P	F8			3. 265
S 01	09: 11: 06	08/25/82	1. 000							
O 00	TP6					P	F8	NL		
O 09	09: 14: 21								6. 176	4. 909
O 00	TP7					P	F8	NL		3. 642
O 09	09: 17: 54								5. 772	4. 531
S 00	S8					P	F8			3. 290
S 01	09: 18: 03	08/25/82	1. 000							
O 00	TP7					P	F8	NL		
O 09	09: 23: 46								5. 989	4. 739
O 00	TP8					P	F8	NL		3. 489
O 09	09: 24: 58								5. 735	4. 461
S 00	S9					P	F8			3. 187
S 01	09: 25: 05	08/25/82	1. 000							
O 00	TP8					P	F8	NL		
O 09	09: 27: 54								6. 416	5. 153
O 00	TP9					P	F8	NL		3. 890
O 09	09: 30: 39								6. 577	5. 307
S 00	S10					P	F8			4. 037
S 01	09: 30: 47	08/25/82	1. 000							
O 00	TP9					P	F8	NL		
O 09	09: 34: 35								6. 834	5. 584
O 00	TP10					P	F8	NL		4. 334
O 09	09: 37: 32								6. 046	4. 755
S 00	S11					P	F8			3. 464
S 01	09: 37: 38	08/25/82	1. 000							
O 00	TP10					P	F8	NL		
O 09	09: 40: 36								5. 381	4. 118
O 00	TP11					P	F8	NL		2. 855

29 Adjustment 1834C.txt

0 09 09: 43: 31					5. 854	4. 587	3. 320
S 00 S12				P F8			
S 01 09: 43: 35	08/25/82	1. 000					
0 00 TP11				P F8 NL			
0 09 09: 47: 18					6. 063	4. 780	3. 497
0 00 TP12				P F8 NL			
0 09 09: 50: 18					6. 091	4. 838	3. 585
S 00 S13				P F8			
S 01 09: 50: 25	08/25/82	1. 000					
0 00 TP12				P F8 NL			
0 09 09: 53: 27					6. 359	5. 059	3. 759
0 00 TP13				P F8 NL			
0 09 09: 56: 11					5. 997	4. 702	3. 407
S 00 S14				P F8			
S 01 09: 56: 16	08/25/82	1. 000					
0 00 TP13				P F8 NL			
0 09 10: 00: 20					6. 650	5. 131	3. 612
0 00 TP14				P F8 NL			
0 09 10: 10: 05					9. 541	8. 028	6. 515
S 00 S15				P F8			
S 01 10: 10: 16	08/25/82	1. 000					
0 00 TP14				P F8 NL			
0 09 10: 35: 37					6. 608	5. 426	4. 244
0 00 TP15				P F8 NL			
0 09 10: 39: 09					6. 659	5. 407	4. 155
S 00 S16				P F8			
S 01 10: 39: 17	08/25/82	1. 000					
0 00 TP15				P F8 NL			
0 09 10: 43: 33					6. 227	5. 011	3. 795
0 00 TP16				P F8 NL			
0 09 10: 46: 43					6. 668	5. 417	4. 166
S 00 S17				P F8			
S 01 10: 46: 57	08/25/82	1. 000					
0 00 TP16				P F8 NL			
0 09 10: 51: 17					6. 745	5. 483	4. 221
0 00 TP17				P F8 NL			
0 09 10: 54: 47					6. 645	5. 393	4. 141
S 00 S18				P F8			
S 01 10: 54: 54	08/25/82	1. 000					
0 00 TP17				P F8 NL			
0 09 10: 58: 30					6. 603	5. 331	4. 059
0 00 TP18				P F8 NL			
0 09 11: 01: 18					6. 390	5. 147	3. 904
S 00 S19				P F8			
S 01 11: 01: 23	08/25/82	1. 000					
0 00 TP18				P F8 NL			
0 09 11: 06: 05					5. 795	5. 083	4. 371
0 00 TP19				P F8 NL			
0 09 11: 07: 54					6. 085	5. 180	4. 275
S 00 S20				P F8			
S 01 11: 08: 03	08/25/82	1. 000					
S 00 S20				P F8			
S 01 11: 20: 29	08/25/82	1. 000					
S 00 S20				P F8			
S 01 11: 20: 45	08/25/82	1. 000					
0 00 TP19				P F8 NL			
0 09 11: 23: 52					5. 893	4. 656	3. 419
0 00 TP20				P F8 NL			
0 09 11: 27: 22					5. 997	4. 743	3. 489
S 00 S21				P F8			
S 01 11: 27: 28	08/25/82	1. 000					
0 00 TP20				P F8 NL			
0 09 11: 30: 30					6. 575	5. 334	4. 093
0 00 TP21				P F8 NL			
0 09 11: 33: 51					6. 509	5. 271	4. 033
S 00 S22				P F8			
S 01 11: 33: 58	08/25/82	1. 000					
0 00 TP21				P F8 NL			
0 09 11: 37: 36					6. 256	5. 034	3. 812
0 00 TP22				P F8 NL			

29 Adjustment 1834C.txt

0 09 11: 41: 10					6. 321	5. 076	3. 831
S 00 S23				P F8			
S 01 11: 41: 15	08/25/82	1. 000					
0 00 TP22				P F8 NL			
0 09 11: 44: 12					6. 387	5. 142	3. 897
0 00 TP23				P F8 NL			
0 09 11: 47: 22					6. 330	5. 099	3. 868
S 00 S24				P F8			
S 01 11: 47: 27	08/25/82	1. 000					
0 00 TP23				P F8 NL			
0 09 11: 50: 36					6. 555	5. 202	3. 849
0 00 TP24				P F8 NL			
0 09 11: 54: 22					6. 296	4. 977	3. 658
S 00 S25				P F8			
S 01 11: 54: 29	08/25/82	1. 000					
0 00 TP24				P F8 NL			
0 09 11: 56: 57					6. 137	5. 685	5. 233
0 00 TP25				P F8 NL			
0 09 11: 58: 25					3. 660	2. 951	2. 242
S 00 S26				P F8			
S 01 11: 58: 33	08/25/82	1. 000					
0 00 TP25				P F8 NL			
0 09 13: 34: 50					6. 318	5. 069	3. 820
0 00 TP26				P F8 NL			
0 09 13: 36: 19					5. 885	4. 852	3. 819
S 00 S27				P F8			
S 01 13: 36: 25	08/25/82	1. 000					
0 00 TP26				P F8 NL			
0 09 13: 38: 52					6. 671	5. 386	4. 101
0 00 TP27				P F8 NL			
0 09 13: 40: 02					6. 291	5. 028	3. 765
S 00 S28				P F8			
S 01 13: 40: 08	08/25/82	1. 000					
0 00 TP27				P F8 NL			
0 09 13: 42: 03					5. 955	4. 707	3. 459
0 00 TP28				P F8 NL			
0 09 13: 43: 02					6. 058	4. 697	3. 336
S 00 S29				P F8			
S 01 13: 43: 14	08/25/82	1. 000					
0 00 TP28				P F8 NL			
0 09 13: 44: 57					6. 514	5. 289	4. 064
0 00 TP29				P F8 NL			
0 09 13: 45: 55					6. 806	5. 501	4. 196
S 00 S30				P F8			
S 01 13: 46: 00	08/25/82	1. 000					
0 00 TP29				P F8 NL			
0 09 13: 48: 24					5. 969	4. 644	3. 319
0 00 TP30				P F8 NL			
0 09 13: 49: 09					6. 233	4. 915	3. 597
S 00 S31				P F8			
S 01 13: 49: 13	08/25/82	1. 000					
0 00 TP30				P F8 NL			
0 09 13: 51: 07					6. 381	5. 139	3. 897
0 00 TP31				P F8 NL			
0 09 13: 51: 54					6. 518	5. 180	3. 842
S 00 S32				P F8			
S 01 13: 51: 58	08/25/82	1. 000					
0 00 TP31				P F8 NL			
0 09 13: 53: 34					6. 281	5. 057	3. 833
0 00 TP32				P F8 NL			
0 09 13: 54: 16					6. 235	4. 970	3. 705
S 00 S33				P F8			
S 01 13: 54: 24	08/25/82	1. 000					
0 00 TP32				P F8 NL			
0 09 13: 56: 06					6. 274	4. 993	3. 712
0 00 TP33				P F8 NL			
0 09 13: 56: 58					6. 381	5. 061	3. 741
S 00 S34				P F8			
S 01 13: 57: 04	08/25/82	1. 000					
0 00 TP33				P F8 NL			

29 Adjustment 1834C.txt

O 09 13:59:04								5.894	5.209	4.524
O 00 TP34										
O 09 13:59:57								5.684	5.119	4.554
SD00 S35										
SD01 14:00:06	08/25/82	1.000								
C 00 16:33:23	08/26/82	90 30.0	000001	SH	CC	JS				
C 01 WILD	NA2000	91119				100				
S 00 S36										
S 01 16:33:57	08/26/82	1.000								
O 00 TP19										
O 09 16:54:36								5.207	4.961	4.715
O 09 17:01:29								5.209	4.962	4.715
O 00 MW1										
O 09 17:00:17								2.813	2.646	2.479
O 00 GND1										
O 09 17:01:05								4.820	4.654	4.488
C 00 11:11:28	08/27/82	90 30.0	000001	SH	CC	JS				
C 01 WILD	NA2000	91119				100				
C 00 11:11:29	08/27/82	90 30.0	000001	SH	CC	JS				
C 01 WILD	NA2000	91119				100				
S 00 S37										
S 01 11:11:50	08/27/82	1.000								
O 00 TP25										
O 09 11:15:07									3.445	
O 00 BM2										
O 09 11:16:23									4.306	
R 00 00:00:00	12/31/99									
R 99 TAPE OBSERVATION DATA STARTS HERE										
C 00 00:00:00	12/31/99									
C 99 DUMMY TAPE CALIBRATION TO RE-INITIALIZE COLLIMATION TO ZERO										
C 01 TAPING	TAPING		10 99	100						
C 03 00:00:00			D	0 0 0.0	90	0 0.0				
C 03 00:00:00			D	0 0 0.0	90	0 0.0				
C 03 00:00:00			R	180 0 0.0	270	0 0.0				
C 03 00:00:00			R	180 0 0.0	270	0 0.0				
R 00 00:00:00	12/31/99									
R 99 TAPE OBSERVATION DATA ENDS HERE										
R 00 00:00:00	12/31/99									
R 99 TAPE TRAVERSE DATA (I. E. CHAINS) START HERE										
R 00 00:00:00	12/31/99									
R 99 TAPE TRAVERSE DATA (I. E. CHAINS) ENDS HERE										
R 00 00:00:00	12/31/99									
R 99 CHAIN DATA STARTS HERE										
R 00 00:00:00	12/31/99									
R 99 CHAIN DATA ENDS HERE										
R 00 00:00:00	12/31/99									
R 99 PREFIX DATA STARTS HERE										
P 00										
P 01 S37, BM2, TP34, MW1, GND1										
' 1F2-	7 "ñ ^"- € α α x* -									
R 00 00:00:00	12/31/99									
R 99 PREFIX DATA ENDS HERE										

1834C. 1D
 MISCLOSURE OF MULTIPLE ELEV. DIFFERENCE MEASUREMENTS
 STATIONS MISCLOSURE
 END OF MISCLOSURE REPORT

47 OF 74 STATIONS IDENTIFIED AS VERTICAL SIDESHOTS
 BAND IS 1 STATIONS
 LEVEL NETWORK ADJUSTMENT

NUMBER OF BENCHMARKS = 2
 NUMBER OF STATIONS = 27
 NUMBER OF MEASUREMENTS = 26
 NUMBER OF REQUIRED TERMS FOR NORMAL EQUATIONS = 53

RESULTS OF ADJUSTMENT

BENCHMARK ELEVATION RESIDUALS

29 Adjustment 1834C.txt

STATION	INPUT ELEV.	ADJUSTED ELEV.	ERROR EST.	RESIDUAL
BM1	8.660	8.660	.000	.000 (.0)
BM2	4.580	4.580	.000	.000 (.0)

BENCHMARK RMS ERROR = .000 SNOOP RMS = .0
 MAX. BENCHMARK RESIDUAL AT STATION BM1 OF .000

RESIDUALS

FROM	TO	MEASURED	RESIDUAL	EST. ERROR
BM1	TP1	-4.716	.000 (.0)	.010
TP1	TP2	.002	.000 (.0)	.010
TP2	TP3	-.144	.000 (.0)	.010
TP3	TP4	-.034	.000 (.0)	.010
TP4	TP5	.438	.000 (.0)	.010
TP5	TP6	.253	.000 (.0)	.010
TP6	TP7	.378	.000 (.0)	.010
TP7	TP8	.278	.000 (.0)	.010
TP8	TP9	-.154	.000 (.0)	.010
TP9	TP10	.829	.000 (.0)	.010
TP10	TP11	-.469	.000 (.0)	.010
TP11	TP12	-.058	.000 (.0)	.010
TP12	TP13	.357	.000 (.0)	.010
TP13	TP14	-2.897	.000 (.0)	.010
TP14	TP15	.019	.000 (.0)	.010
TP15	TP16	-.406	.000 (.0)	.010
TP16	TP17	.090	.000 (.0)	.010
TP17	TP18	.184	.000 (.0)	.010
TP18	TP19	-.097	.000 (.0)	.010
TP19	TP20	-.087	.000 (.0)	.010
TP20	TP21	.063	.000 (.0)	.010
TP21	TP22	-.042	.000 (.0)	.010
TP22	TP23	.043	.000 (.0)	.010
TP23	TP24	.225	.000 (.0)	.010
TP24	TP25	2.734	.000 (.0)	.010
TP25	BM2	-.861	.000 (.0)	.010

ELEV. DIFF. RMS ERROR = .000 SNOOP RMS = .0
 MAX. ELEV. DIFF. RESIDUAL TP22 - TP23 OF .000

95% CONFIDENCE F STATISTIC STANDARD ERROR MULTIPLIER FOR 1 D.F. IS 20.00

STATION	ADJUSTED ELEV.	STANDARD ERROR
BM1	8.660	.000
TP1	3.944	.031
TP2	3.945	.043
TP3	3.801	.051
TP4	3.767	.058
TP5	4.204	.063
TP6	4.457	.067
TP7	4.835	.071
TP8	5.113	.074
TP9	4.958	.076
TP10	5.787	.078
TP11	5.318	.079
TP12	5.259	.080
TP13	5.616	.080
TP14	2.719	.080
TP15	2.737	.079
TP16	2.331	.078
TP17	2.421	.076
TP18	2.604	.074
TP19	2.507	.071
TP20	2.420	.067

29 Adjustment 1834C.txt

TP21	2.483	.063
TP22	2.440	.058
TP23	2.483	.051
TP24	2.708	.043
TP25	5.441	.031
BM2	4.580	.000

STANDARD ERROR OF UNIT WEIGHT IS .157
 WITH 1 DEGREES OF FREEDOM

CHI SQUARED TEST ON ANALYSIS
 .031 < .157 < 1.960
 (LOW) (HIGH)
 PASSES AT THE 5 % SIGNIFICANCE LEVEL

1834C. CHL

PROJECT NAME IS 1834C

ELEVATION CLOSURE REPORT
 SUM OF DISTANCES ALONG SURVEY IS 12170.000
 CLOSURE IN ELEVATION (Z) = -.008
 CLOSURE PER STATION = .000
 PRECISION = 1 / 1521250.

STATION	ELEVATION (Z)
BM1	8.660
TP1	3.944
TP2	3.945
TP3	3.801
TP4	3.767
TP5	4.204
TP6	4.457
TP7	4.835
TP8	5.113
TP9	4.958
TP10	5.787
TP11	5.318
TP12	5.259
TP13	5.616
TP14	2.719
TP15	2.737
TP16	2.331
TP17	2.421
TP18	2.604
TP19	2.507
TP20	2.420
TP21	2.483
TP22	2.440
TP23	2.483
TP24	2.708
TP25	5.441
BM2	4.580

TOTAL LENGTH OF EVALUATED SURVEY DISTANCE = 2.305 MILES
 OVERALL PRECISION = 1 / 1521250.

1834C. CTL

G 00	1834C			
G 01	BM1	BM1	P F8 IRC F61-147	0901 83F29
G 02			8.6600	.0001
G 01	BM2	BM2	P F8 IRC F-59	0901 83F29
G 02			4.5800	.0001

1834C. XYZ

G 00	1834C. XYZ			
G 01	BM1		P G1 CMON-f61 1	0901 83F29

29 Adjustment 1834C.txt

G 02		8. 660	. 000
G 01 TP1	P F8 NL		0901 83F29
G 02		3. 944	. 031
G 01 TP2	P F8 NL		0901 83F29
G 02		3. 945	. 043
G 01 TP3	P F8 NL		0901 83F29
G 02		3. 801	. 051
G 01 TP4	P F8 NL		0901 83F29
G 02		3. 767	. 058
G 01 TP5	P F8 NL		0901 83F29
G 02		4. 204	. 063
G 01 TP6	P F8 NL		0901 83F29
G 02		4. 457	. 067
G 01 TP7	P F8 NL		0901 83F29
G 02		4. 835	. 071
G 01 TP8	P F8 NL		0901 83F29
G 02		5. 113	. 074
G 01 TP9	P F8 NL		0901 83F29
G 02		4. 958	. 076
G 01 TP10	P F8 NL		0901 83F29
G 02		5. 787	. 078
G 01 TP11	P F8 NL		0901 83F29
G 02		5. 318	. 079
G 01 TP12	P F8 NL		0901 83F29
G 02		5. 259	. 080
G 01 TP13	P F8 NL		0901 83F29
G 02		5. 616	. 080
G 01 TP14	P F8 NL		0901 83F29
G 02		2. 719	. 080
G 01 TP15	P F8 NL		0901 83F29
G 02		2. 737	. 079
G 01 TP16	P F8 NL		0901 83F29
G 02		2. 331	. 078
G 01 TP17	P F8 NL		0901 83F29
G 02		2. 421	. 076
G 01 TP18	P F8 NL		0901 83F29
G 02		2. 604	. 074
G 01 TP19	P F8 NL		0901 83F29
G 02		2. 507	. 071
G 01 TP20	P F8 NL		0901 83F29
G 02		2. 420	. 067
G 01 TP21	P F8 NL		0901 83F29
G 02		2. 483	. 063
G 01 TP22	P F8 NL		0901 83F29
G 02		2. 440	. 058
G 01 TP23	P F8 NL		0901 83F29
G 02		2. 483	. 051
G 01 TP24	P F8 NL		0901 83F29
G 02		2. 708	. 043
G 01 TP25	P F8 NL		0901 83F29
G 02		5. 441	. 031
G 01 TP26	P F8 NL		0901 83F29
G 02		5. 658	
G 01 TP27	P F8 NL		0901 83F29
G 02		6. 016	
G 01 TP28	P F8 NL		0901 83F29
G 02		6. 026	
G 01 TP29	P F8 NL		0901 83F29
G 02		5. 814	
G 01 TP30	P F8 NL		0901 83F29
G 02		5. 543	
G 01 TP31	P F8 NL		0901 83F29
G 02		5. 502	
G 01 TP32	P F8 NL		0901 83F29
G 02		5. 589	
G 01 TP33	P F8 NL		0901 83F29
G 02		5. 521	
G 01 TP34	P F8 NL TP20 (SEG B)		0901 83F29
G 02		5. 611	
G 01 MW1	P F8 MW-bbcwmw4a		0901 83F29

29 Adjustment 1834C.txt

G 02		4.822	
G 01	GND1	P G1 GND	0901 83F29
G 02		2.814	
G 01	BM2	P F8 pi p-f59	0901 83F29
G 02		4.580	.000

88 Adjustment.txt

1834D. OBS

H 00	1834D				07: 11: 37	11/13/95	07: 11: 37	11/13/95	ENGLISH	2. 55
H 99	BISCAYNE	BAY CANAL								
C 00	07: 14: 54	11/13/95	90	30.0	000001	DF	TMD	JH		
C 01	WILD	NA2000		90788				100		
S 00	S1				P	F8				
S 01	07: 15: 46	11/13/95		1.000						
C 00	05: 39: 16	11/15/95	90	30.0	000001	DF	JH	NL		
C 01	WILD	NA2000		91119				100		
C 13	08: 25: 04	5. 38	6. 12	5. 49	6. 23					
S 00	S1				P	G1				
S 01	08: 31: 28	11/15/95		1.000						
O 00	TP35				P	G1	NL-TP#35	SW 87AVE	FB682	P7
O 09	08: 39: 30							8. 835	7. 284	5. 733
O 00	D2				P	G1	NL-TP#1			
O 09	08: 50: 12							6. 630	5. 335	4. 040
S 00	S3				P	G1				
S 01	08: 58: 12	11/15/95		1.000						
O 00	D2				P	G1	NL-TP#1			
O 09	08: 58: 31							6. 345	5. 032	3. 719
O 00	D3				P	G1	NL-TP#2			
O 09	09: 01: 47							5. 900	4. 981	4. 062
S 00	S4				P	G1				
S 01	09: 05: 18	11/15/95		1.000						
O 00	D3				P	G1	NL-TP#2			
O 09	09: 06: 03							5. 433	4. 180	2. 927
O 00	D4				P	G1	NL-TP#3			
O 09	09: 08: 03							6. 239	5. 053	3. 867
S 00	S5				P	G1				
S 01	09: 11: 00	11/15/95		1.000						
O 00	D4				P	G1	NL-TP#3			
O 09	09: 11: 17							6. 678	5. 537	4. 396
O 00	D5				P	G1	NL-TP#4			
O 09	09: 13: 08							6. 693	5. 404	4. 115
S 00	S6				P	G1				
S 01	09: 16: 11	11/15/95		1.000						
O 00	D5				P	G1	NL-TP#4			
O 09	09: 16: 33							6. 485	5. 311	4. 137
O 00	D6				P	G1	NL-TP#5			
O 09	09: 22: 09							6. 297	4. 986	3. 675
S 00	S7				P	G1				
S 01	09: 26: 45	11/15/95		1.000						
O 00	D6				P	G1	NL-TP#5			
O 09	09: 27: 19							7. 666	6. 432	5. 198
O 00	D7				P	G1	NL-TP#6			
O 09	09: 30: 07							7. 097	5. 598	4. 099
S 00	S8				P	G1				
S 01	09: 37: 55	11/15/95		1.000						
O 00	D7				P	G1	NL-TP#6			
O 09	09: 38: 29							6. 128	5. 675	5. 222
O 00	D8				P	G1	NL-TP#7			
O 09	09: 40: 33							6. 176	5. 657	5. 138
S 00	S9				P	G1				
S 01	09: 47: 13	11/15/95		1.000						
O 00	D8				P	G1	NL-TP#7			
O 09	09: 47: 42							4. 339	3. 845	3. 351
O 00	D9				P	G1	NL-TP#8			
O 09	09: 49: 26							6. 709	6. 315	5. 921
S 00	S10				P	G1				
S 01	09: 51: 55	11/15/95		1.000						
O 00	D9				P	G1	NL-TP#8			
O 09	09: 52: 20							4. 812	4. 532	4. 252
O 00	D10				P	G1	NL-TP#9			
O 09	09: 53: 19							5. 323	5. 074	4. 825
S 00	S11				P	G1				
S 01	09: 55: 10	11/15/95		1.000						
O 00	D10				P	G1	NL-TP#9			
O 09	09: 55: 35							4. 017	3. 825	3. 633
O 00	D11				P	G1	NL-TP#10			
O 09	09: 56: 28							4. 068	3. 856	3. 644

88 Adjustment.txt

S 00 S12			P G1				
S 01 09: 58: 38	11/15/95	1.000					
O 00 D11			P G1 NL-TP#10				
O 09 09: 59: 05				5.054	4.465	3.876	
O 00 D12			P G1 NL-TP#11				
O 09 10: 01: 45				4.688	3.976	3.264	
S 00 S13			P G1				
S 01 10: 03: 55	11/15/95	1.000					
O 00 D12			P G1 NL-TP#11				
O 09 10: 04: 35				5.966	5.321	4.676	
O 00 D13			P G1 NL-TP#12				
O 09 10: 06: 19				5.909	5.305	4.701	
S 00 S14			P G1				
S 01 10: 10: 33	11/15/95	1.000					
O 00 D13			P G1 NL-TP#12				
O 09 10: 12: 59				6.207	5.519	4.831	
O 00 D14			P G1 NL-TP#13				
O 09 10: 14: 07				6.093	5.534	4.975	
S 00 S15			P G1				
S 01 10: 15: 41	11/15/95	1.000					
O 00 D14			P G1 NL-TP#13				
O 09 10: 16: 11				4.869	4.148	3.427	
O 00 D15			P G1 NL-TP#14				
O 09 10: 18: 38				5.217	4.636	4.055	
S 00 S16			P G1				
S 01 10: 20: 11	11/15/95	1.000					
O 00 D15			P G1 NL-TP#14				
O 09 10: 20: 54				3.997	3.799	3.601	
O 00 D16			P G1 NL-TP#15				
O 09 10: 21: 43				3.973	3.767	3.561	
S 00 S17			P G1				
S 01 10: 22: 54	11/15/95	1.000					
O 00 D16			P G1 NL-TP#15				
O 09 10: 23: 22				5.285	5.035	4.785	
O 00 D17			P G1 NL-TP#16				
O 09 10: 24: 29				4.770	4.492	4.214	
S 00 S18			P G1				
S 01 10: 25: 41	11/15/95	1.000					
O 00 D17			P G1 NL-TP#16				
O 09 10: 26: 10				7.220	6.716	6.212	
O 00 D18			P G1 NL-TP#17				
O 09 10: 27: 38				4.632	4.249	3.866	
S 00 S19			P G1				
S 01 10: 29: 15	11/15/95	1.000					
O 00 D18			P G1 NL-TP#17				
O 09 10: 29: 37				5.728	5.249	4.770	
O 00 D19			P G1 NL-TP#18				
O 09 10: 32: 31				5.760	5.267	4.774	
S 00 S20			P G1				
S 01 10: 58: 41	11/15/95	1.000					
O 00 D19			P G1 NL-TP#18				
O 09 10: 59: 17				6.401	5.036	3.671	
O 00 D20			P G1 NL-TP#19				
O 09 11: 01: 12				7.242	5.870	4.498	
S 00 S21			P G1				
S 01 11: 03: 43	11/15/95	1.000					
O 00 D20			P G1 NL-TP#19				
O 09 11: 04: 14				6.063	4.873	3.683	
O 00 D21			P G1 NL-TP#20				
O 09 11: 06: 10				6.490	5.197	3.904	
S 00 S22			P G1				
S 01 11: 08: 45	11/15/95	1.000					
O 00 D21			P G1 NL-TP#20				
O 09 11: 09: 12				6.112	5.086	4.060	
O 00 D22			P G1 NL-TP#21				
O 09 11: 10: 51				6.625	5.218	3.811	
S 00 S23			P G1				
S 01 11: 13: 25	11/15/95	1.000					
O 00 D22			P G1 NL-TP#21				
O 09 11: 13: 44				5.977	4.860	3.743	

88 Adjustment.txt

0 00 D23	P G1 NL-TP#22			
0 09 11: 16: 10		5. 305	3. 985	2. 665
S 00 S24	P G1			
S 01 11: 18: 44 11/15/95 1. 000				
0 00 D23	P G1 NL-TP#22			
0 09 11: 19: 17		5. 359	4. 437	3. 515
0 00 D24	P G1 NL-TP#23			
0 09 11: 20: 54		5. 831	4. 489	3. 147
S 00 S25	P G1			
S 01 11: 26: 29 11/15/95 1. 000				
0 00 D24	P G1 NL-TP#23			
0 09 11: 26: 57		6. 663	5. 898	5. 133
0 00 TP34	P G1 NL-TP#34 SW 87AVE FB682 P7			
0 09 11: 29: 00		7. 029	6. 246	5. 463
S 00 S26	P F8			
S 01 11: 48: 03 11/15/95 1. 000				
0 00 D13	P G1 NL-TP#12			
0 09 11: 56: 41		4. 810	4. 736	4. 662
0 00 MW1	P G1 MW-BBCMMW1A			
0 99 NORTH RIM OF OUTER CASING				
0 09 11: 58: 42		4. 306	4. 210	4. 114
0 00 MW2	P G1 MW-BBCMMW1A			
0 99 NORTH SIBE OF 2" PVC WELL				
0 09 12: 00: 31		4. 489	4. 391	4. 293
S 00 S27	P F8			
S 01 12: 01: 51 11/15/95 1. 000				
0 00 MW2	P G1 MW-BBCMMW1A			
0 99 NORTH SIBE OF 2" PVC WELL				
0 09 12: 03: 01		4. 511	4. 413	4. 315
0 00 D13	P G1 NL-TP#12			
0 09 12: 03: 34		4. 833	4. 759	4. 685
R 00 00: 00: 00 12/31/99				
R 99 TAPE OBSERVATION DATA STARTS HERE				
C 00 00: 00: 00 12/31/99				
C 99 DUMMY TAPE CALIBRATION TO RE-INITIALIZE COLLIMATION TO ZERO				
C 01 TAPING TAPING	10 99 100			
C 03 00: 00: 00	D 0 0 0.0 90 0 0.0			
C 03 00: 00: 00	D 0 0 0.0 90 0 0.0			
C 03 00: 00: 00	R 180 0 0.0 270 0 0.0			
C 03 00: 00: 00	R 180 0 0.0 270 0 0.0			
R 00 00: 00: 00 12/31/99				
R 99 TAPE OBSERVATION DATA ENDS HERE				
R 00 00: 00: 00 12/31/99				
R 99 TAPE TRAVERSE DATA (I. E. CHAINS) START HERE				
R 00 00: 00: 00 12/31/99				
R 99 TAPE TRAVERSE DATA (I. E. CHAINS) ENDS HERE				
R 00 00: 00: 00 12/31/99				
R 99 CHAIN DATA STARTS HERE				
R 00 00: 00: 00 12/31/99				
R 99 CHAIN DATA ENDS HERE				
R 00 00: 00: 00 12/31/99				
R 99 PREFIX DATA STARTS HERE				
P 00				
P 01 S27, D25, MW2				
R 00 00: 00: 00 12/31/99				
R 99 PREFIX DATA ENDS HERE				

1834D. 1D

MI SCLOSURE OF MULTIPLE ELEV. DIFFERENCE MEASUREMENTS

STATIONS MI SCLOSURE

D13 - MW2 .001

END OF MI SCLOSURE REPORT

28 OF 53 STATIONS IDENTIFIED AS VERTICAL SIDESHOTS

BAND IS 1 STATIONS

LEVEL NETWORK ADJUSTMENT

NUMBER OF BENCHMARKS = 2

NUMBER OF STATIONS = 25

NUMBER OF MEASUREMENTS = 24
 NUMBER OF REQUIRED TERMS FOR NORMAL EQUATIONS = 49

RESULTS OF ADJUSTMENT

BENCHMARK ELEVATION RESIDUALS

STATION	INPUT ELEV.	ADJUSTED ELEV.	ERROR EST.	RESIDUAL
TP35	3.668	3.668	.000	.000 (.0)
TP34	5.263	5.263	.000	.000 (.0)

BENCHMARK RMS ERROR = .000 SNOOP RMS = .0
 MAX. BENCHMARK RESIDUAL AT STATION TP35 OF .000

RESIDUALS

FROM	TO	MEASURED	RESIDUAL	EST. ERROR
TP35	D2	1.949	.000 (.0)	.010
D2	D3	.051	.000 (.0)	.010
D3	D4	-.873	.000 (.0)	.010
D4	D5	.133	.000 (.0)	.010
D5	D6	.325	.000 (.0)	.010
D6	D7	.834	.000 (.0)	.010
D7	D8	.018	.000 (.0)	.010
D8	D9	-2.470	.000 (.0)	.010
D9	D10	-.542	.000 (.0)	.010
D10	D11	-.031	.000 (.0)	.010
D11	D12	.489	.000 (.0)	.010
D12	D13	.016	.000 (.0)	.010
D13	D14	-.015	.000 (.0)	.010
D14	D15	-.488	.000 (.0)	.010
D15	D16	.032	.000 (.0)	.010
D16	D17	.543	.000 (.0)	.010
D17	D18	2.467	.000 (.0)	.010
D18	D19	-.018	.000 (.0)	.010
D19	D20	-.834	.000 (.0)	.010
D20	D21	-.324	.000 (.0)	.010
D21	D22	-.132	.000 (.0)	.010
D22	D23	.875	.000 (.0)	.010
D23	D24	-.052	.000 (.0)	.010
D24	TP34	-.348	.000 (.0)	.010

ELEV. DIFF. RMS ERROR = .000 SNOOP RMS = .0
 MAX. ELEV. DIFF. RESIDUAL D23 - D24 OF .000

95% CONFIDENCE F STATISTIC STANDARD ERROR MULTIPLIER FOR 1 D.F. IS 20.00

STATION	ADJUSTED ELEV.	STANDARD ERROR
TP35	3.668	.000
D2	5.617	.040
D3	5.667	.055
D4	4.794	.066
D5	4.926	.075
D6	5.251	.081
D7	6.084	.087
D8	6.102	.091
D9	3.632	.094
D10	3.089	.097
D11	3.058	.099
D12	3.546	.100
D13	3.562	.100
D14	3.547	.100
D15	3.058	.099
D16	3.090	.097
D17	3.632	.094

88 Adjustment.txt

D18	6.099	.091
D19	6.081	.087
D20	5.246	.081
D21	4.922	.075
D22	4.789	.066
D23	5.664	.055
D24	5.611	.040
TP34	5.263	.000

STANDARD ERROR OF UNIT WEIGHT IS .204
WITH 1 DEGREES OF FREEDOM

CHI SQUARED TEST ON ANALYSIS
.031 < .204 < 1.960

1834D. CHL

PROJECT NAME IS 1834D

ELEVATION CLOSURE REPORT

SUM OF DISTANCES ALONG SURVEY IS 7969.500

CLOSURE IN ELEVATION (Z) = -.010

CLOSURE PER STATION = .000

PRECISION = 1 / 796950.

STATION	ELEVATION (Z)
TP35	3.668
D2	5.617
D3	5.667
D4	4.794
D5	4.926
D6	5.251
D7	6.084
D8	6.102
D9	3.632
D10	3.089
D11	3.058
D12	3.546
D13	3.562
D14	3.547
D15	3.058
D16	3.090
D17	3.632
D18	6.099
D19	6.081
D20	5.246
D21	4.922
D22	4.789
D23	5.664
D24	5.611
TP34	5.263

TOTAL LENGTH OF EVALUATED SURVEY DISTANCE = 1.509 MILES
OVERALL PRECISION = 1 / 796950.

1834D. CTL

G 00	1834D		
G 01	TP35	TP35	0901 83F88
G 02		3.6680	.0001
G 01	TP34	TP34	0901 83F88
G 02		5.2630	.0001

1834D. XYZ

G 00	1834D. XYZ		
G 01	TP35	P G1 NL-TP#35 SW 87AVE FB682	0901 83F88
G 02		3.668	.000

88 Adjustment.txt

G 01 D2	P G1 NL-TP#1	0901 83F88
G 02	5. 617	. 040
G 01 D3	P G1 NL-TP#2	0901 83F88
G 02	5. 667	. 055
G 01 D4	P G1 NL-TP#3	0901 83F88
G 02	4. 794	. 066
G 01 D5	P G1 NL-TP#4	0901 83F88
G 02	4. 926	. 075
G 01 D6	P G1 NL-TP#5	0901 83F88
G 02	5. 251	. 081
G 01 D7	P G1 NL-TP#6	0901 83F88
G 02	6. 084	. 087
G 01 D8	P G1 NL-TP#7	0901 83F88
G 02	6. 102	. 091
G 01 D9	P G1 NL-TP#8	0901 83F88
G 02	3. 632	. 094
G 01 D10	P G1 NL-TP#9	0901 83F88
G 02	3. 089	. 097
G 01 D11	P G1 NL-TP#10	0901 83F88
G 02	3. 058	. 099
G 01 D12	P G1 NL-TP#11	0901 83F88
G 02	3. 546	. 100
G 01 D13	P G1 NL-TP#12	0901 83F88
G 02	3. 562	. 100
G 01 D14	P G1 NL-TP#13	0901 83F88
G 02	3. 547	. 100
G 01 D15	P G1 NL-TP#14	0901 83F88
G 02	3. 058	. 099
G 01 D16	P G1 NL-TP#15	0901 83F88
G 02	3. 090	. 097
G 01 D17	P G1 NL-TP#16	0901 83F88
G 02	3. 632	. 094
G 01 D18	P G1 NL-TP#17	0901 83F88
G 02	6. 099	. 091
G 01 D19	P G1 NL-TP#18	0901 83F88
G 02	6. 081	. 087
G 01 D20	P G1 NL-TP#19	0901 83F88
G 02	5. 246	. 081
G 01 D21	P G1 NL-TP#20	0901 83F88
G 02	4. 922	. 075
G 01 D22	P G1 NL-TP#21	0901 83F88
G 02	4. 789	. 066
G 01 D23	P G1 NL-TP#22	0901 83F88
G 02	5. 664	. 055
G 01 D24	P G1 NL-TP#23	0901 83F88
G 02	5. 611	. 040
G 01 TP34	P G1 NL-TP#34 SW 87AVE FB682	0901 83F88
G 02	5. 263	. 000
G 01 MW1	P G1 MW-BBCMMW1A	0901 83F88
G 99 NORTH RIM OF OUTER CASING		
G 02	4. 088	
G 01 MW2	P G1 MW-BBCMMW1A	0901 83F88
G 99 NORTH SIBE OF 2" PVC WELL		
G 02	3. 908	

29 Adjustment.txt

1834D. OBS

H 00	1834D					07: 11: 37	11/13/95	07: 11: 37	11/13/95	ENGLISH	2. 55
H 99	BISCAYNE	BAY CANAL									
C 00	07: 14: 54	11/13/95	90	30. 0	000001	DF	TMD JH				
C 01	WILD	NA2000		90788			100				
S 00	S1					P F8					
S 01	07: 15: 46	11/13/95		1. 000							
C 00	05: 39: 16	11/15/95	90	30. 0	000001	DF	JH NL				
C 01	WILD	NA2000		91119			100				
C 13	08: 25: 04	5. 38	6. 12	5. 49	6. 23						
S 00	S1					P G1					
S 01	08: 31: 28	11/15/95		1. 000							
O 00	TP35					P G1	NL-TP#35 SW 87AVE FB682 P7				
O 09	08: 39: 30							8. 835	7. 284	5. 733	
O 00	D2					P G1	NL-TP#1				
O 09	08: 50: 12							6. 630	5. 335	4. 040	
S 00	S3					P G1					
S 01	08: 58: 12	11/15/95		1. 000							
O 00	D2					P G1	NL-TP#1				
O 09	08: 58: 31							6. 345	5. 032	3. 719	
O 00	D3					P G1	NL-TP#2				
O 09	09: 01: 47							5. 900	4. 981	4. 062	
S 00	S4					P G1					
S 01	09: 05: 18	11/15/95		1. 000							
O 00	D3					P G1	NL-TP#2				
O 09	09: 06: 03							5. 433	4. 180	2. 927	
O 00	D4					P G1	NL-TP#3				
O 09	09: 08: 03							6. 239	5. 053	3. 867	
S 00	S5					P G1					
S 01	09: 11: 00	11/15/95		1. 000							
O 00	D4					P G1	NL-TP#3				
O 09	09: 11: 17							6. 678	5. 537	4. 396	
O 00	D5					P G1	NL-TP#4				
O 09	09: 13: 08							6. 693	5. 404	4. 115	
S 00	S6					P G1					
S 01	09: 16: 11	11/15/95		1. 000							
O 00	D5					P G1	NL-TP#4				
O 09	09: 16: 33							6. 485	5. 311	4. 137	
O 00	D6					P G1	NL-TP#5				
O 09	09: 22: 09							6. 297	4. 986	3. 675	
S 00	S7					P G1					
S 01	09: 26: 45	11/15/95		1. 000							
O 00	D6					P G1	NL-TP#5				
O 09	09: 27: 19							7. 666	6. 432	5. 198	
O 00	D7					P G1	NL-TP#6				
O 09	09: 30: 07							7. 097	5. 598	4. 099	
S 00	S8					P G1					
S 01	09: 37: 55	11/15/95		1. 000							
O 00	D7					P G1	NL-TP#6				
O 09	09: 38: 29							6. 128	5. 675	5. 222	
O 00	D8					P G1	NL-TP#7				
O 09	09: 40: 33							6. 176	5. 657	5. 138	
S 00	S9					P G1					
S 01	09: 47: 13	11/15/95		1. 000							
O 00	D8					P G1	NL-TP#7				
O 09	09: 47: 42							4. 339	3. 845	3. 351	
O 00	D9					P G1	NL-TP#8				
O 09	09: 49: 26							6. 709	6. 315	5. 921	
S 00	S10					P G1					
S 01	09: 51: 55	11/15/95		1. 000							
O 00	D9					P G1	NL-TP#8				
O 09	09: 52: 20							4. 812	4. 532	4. 252	
O 00	D10					P G1	NL-TP#9				
O 09	09: 53: 19							5. 323	5. 074	4. 825	
S 00	S11					P G1					
S 01	09: 55: 10	11/15/95		1. 000							
O 00	D10					P G1	NL-TP#9				
O 09	09: 55: 35							4. 017	3. 825	3. 633	
O 00	D11					P G1	NL-TP#10				
O 09	09: 56: 28							4. 068	3. 856	3. 644	

29 Adjustment.txt

S 00 S12			P G1				
S 01 09: 58: 38	11/15/95	1.000					
O 00 D11			P G1 NL-TP#10				
O 09 09: 59: 05				5.054	4.465	3.876	
O 00 D12			P G1 NL-TP#11				
O 09 10: 01: 45				4.688	3.976	3.264	
S 00 S13			P G1				
S 01 10: 03: 55	11/15/95	1.000					
O 00 D12			P G1 NL-TP#11				
O 09 10: 04: 35				5.966	5.321	4.676	
O 00 D13			P G1 NL-TP#12				
O 09 10: 06: 19				5.909	5.305	4.701	
S 00 S14			P G1				
S 01 10: 10: 33	11/15/95	1.000					
O 00 D13			P G1 NL-TP#12				
O 09 10: 12: 59				6.207	5.519	4.831	
O 00 D14			P G1 NL-TP#13				
O 09 10: 14: 07				6.093	5.534	4.975	
S 00 S15			P G1				
S 01 10: 15: 41	11/15/95	1.000					
O 00 D14			P G1 NL-TP#13				
O 09 10: 16: 11				4.869	4.148	3.427	
O 00 D15			P G1 NL-TP#14				
O 09 10: 18: 38				5.217	4.636	4.055	
S 00 S16			P G1				
S 01 10: 20: 11	11/15/95	1.000					
O 00 D15			P G1 NL-TP#14				
O 09 10: 20: 54				3.997	3.799	3.601	
O 00 D16			P G1 NL-TP#15				
O 09 10: 21: 43				3.973	3.767	3.561	
S 00 S17			P G1				
S 01 10: 22: 54	11/15/95	1.000					
O 00 D16			P G1 NL-TP#15				
O 09 10: 23: 22				5.285	5.035	4.785	
O 00 D17			P G1 NL-TP#16				
O 09 10: 24: 29				4.770	4.492	4.214	
S 00 S18			P G1				
S 01 10: 25: 41	11/15/95	1.000					
O 00 D17			P G1 NL-TP#16				
O 09 10: 26: 10				7.220	6.716	6.212	
O 00 D18			P G1 NL-TP#17				
O 09 10: 27: 38				4.632	4.249	3.866	
S 00 S19			P G1				
S 01 10: 29: 15	11/15/95	1.000					
O 00 D18			P G1 NL-TP#17				
O 09 10: 29: 37				5.728	5.249	4.770	
O 00 D19			P G1 NL-TP#18				
O 09 10: 32: 31				5.760	5.267	4.774	
S 00 S20			P G1				
S 01 10: 58: 41	11/15/95	1.000					
O 00 D19			P G1 NL-TP#18				
O 09 10: 59: 17				6.401	5.036	3.671	
O 00 D20			P G1 NL-TP#19				
O 09 11: 01: 12				7.242	5.870	4.498	
S 00 S21			P G1				
S 01 11: 03: 43	11/15/95	1.000					
O 00 D20			P G1 NL-TP#19				
O 09 11: 04: 14				6.063	4.873	3.683	
O 00 D21			P G1 NL-TP#20				
O 09 11: 06: 10				6.490	5.197	3.904	
S 00 S22			P G1				
S 01 11: 08: 45	11/15/95	1.000					
O 00 D21			P G1 NL-TP#20				
O 09 11: 09: 12				6.112	5.086	4.060	
O 00 D22			P G1 NL-TP#21				
O 09 11: 10: 51				6.625	5.218	3.811	
S 00 S23			P G1				
S 01 11: 13: 25	11/15/95	1.000					
O 00 D22			P G1 NL-TP#21				
O 09 11: 13: 44				5.977	4.860	3.743	

29 Adjustment.txt

0 00 D23	P G1 NL-TP#22			
0 09 11: 16: 10		5. 305	3. 985	2. 665
S 00 S24	P G1			
S 01 11: 18: 44 11/15/95 1. 000				
0 00 D23	P G1 NL-TP#22			
0 09 11: 19: 17		5. 359	4. 437	3. 515
0 00 D24	P G1 NL-TP#23			
0 09 11: 20: 54		5. 831	4. 489	3. 147
S 00 S25	P G1			
S 01 11: 26: 29 11/15/95 1. 000				
0 00 D24	P G1 NL-TP#23			
0 09 11: 26: 57		6. 663	5. 898	5. 133
0 00 TP34	P G1 NL-TP#34 SW 87AVE FB682 P7			
0 09 11: 29: 00		7. 029	6. 246	5. 463
S 00 S26	P F8			
S 01 11: 48: 03 11/15/95 1. 000				
0 00 D13	P G1 NL-TP#12			
0 09 11: 56: 41		4. 810	4. 736	4. 662
0 00 MW1	P G1 MW-BBCMMW1A			
0 99 NORTH RIM OF OUTER CASING				
0 09 11: 58: 42		4. 306	4. 210	4. 114
0 00 MW2	P G1 MW-BBCMMW1A			
0 99 NORTH SIBE OF 2" PVC WELL				
0 09 12: 00: 31		4. 489	4. 391	4. 293
S 00 S27	P F8			
S 01 12: 01: 51 11/15/95 1. 000				
0 00 MW2	P G1 MW-BBCMMW1A			
0 99 NORTH SIBE OF 2" PVC WELL				
0 09 12: 03: 01		4. 511	4. 413	4. 315
0 00 D13	P G1 NL-TP#12			
0 09 12: 03: 34		4. 833	4. 759	4. 685

R 00 00: 00: 00 12/31/99
R 99 TAPE OBSERVATION DATA STARTS HERE
C 00 00: 00: 00 12/31/99
C 99 DUMMY TAPE CALIBRATION TO RE-INITIALIZE COLLIMATION TO ZERO
C 01 TAPING TAPING 10 99 100
C 03 00: 00: 00 D 0 0 0.0 90 0 0.0
C 03 00: 00: 00 D 0 0 0.0 90 0 0.0
C 03 00: 00: 00 R 180 0 0.0 270 0 0.0
C 03 00: 00: 00 R 180 0 0.0 270 0 0.0
R 00 00: 00: 00 12/31/99
R 99 TAPE OBSERVATION DATA ENDS HERE
R 00 00: 00: 00 12/31/99
R 99 TAPE TRAVERSE DATA (I. E. CHAINS) START HERE
R 00 00: 00: 00 12/31/99
R 99 TAPE TRAVERSE DATA (I. E. CHAINS) ENDS HERE
R 00 00: 00: 00 12/31/99
R 99 CHAIN DATA STARTS HERE
R 00 00: 00: 00 12/31/99
R 99 CHAIN DATA ENDS HERE
R 00 00: 00: 00 12/31/99
R 99 PREFIX DATA STARTS HERE
P 00
P 01 S27, D25, MW2
R 00 00: 00: 00 12/31/99
R 99 PREFIX DATA ENDS HERE

1834D. 1D
MI SCLOSURE OF MULTIPLE ELEV. DIFFERENCE MEASUREMENTS
STATIONS MI SCLOSURE
D13 - MW2 .001
END OF MI SCLOSURE REPORT

28 OF 53 STATIONS IDENTIFIED AS VERTICAL SIDESHOTS
BAND IS 1 STATIONS
LEVEL NETWORK ADJUSTMENT

NUMBER OF BENCHMARKS = 2
NUMBER OF STATIONS = 25

NUMBER OF MEASUREMENTS = 24
 NUMBER OF REQUIRED TERMS FOR NORMAL EQUATIONS = 49

RESULTS OF ADJUSTMENT

BENCHMARK ELEVATION RESIDUALS

STATION	INPUT ELEV.	ADJUSTED ELEV.	ERROR EST.	RESIDUAL
TP35	5.188	5.188	.000	.000 (.0)
TP34	6.783	6.783	.000	.000 (.0)

BENCHMARK RMS ERROR = .000 SNOOP RMS = .0
 MAX. BENCHMARK RESIDUAL AT STATION TP35 OF .000

RESIDUALS

FROM	TO	MEASURED	RESIDUAL	EST. ERROR
TP35	D2	1.949	.000 (.0)	.010
D2	D3	.051	.000 (.0)	.010
D3	D4	-.873	.000 (.0)	.010
D4	D5	.133	.000 (.0)	.010
D5	D6	.325	.000 (.0)	.010
D6	D7	.834	.000 (.0)	.010
D7	D8	.018	.000 (.0)	.010
D8	D9	-2.470	.000 (.0)	.010
D9	D10	-.542	.000 (.0)	.010
D10	D11	-.031	.000 (.0)	.010
D11	D12	.489	.000 (.0)	.010
D12	D13	.016	.000 (.0)	.010
D13	D14	-.015	.000 (.0)	.010
D14	D15	-.488	.000 (.0)	.010
D15	D16	.032	.000 (.0)	.010
D16	D17	.543	.000 (.0)	.010
D17	D18	2.467	.000 (.0)	.010
D18	D19	-.018	.000 (.0)	.010
D19	D20	-.834	.000 (.0)	.010
D20	D21	-.324	.000 (.0)	.010
D21	D22	-.132	.000 (.0)	.010
D22	D23	.875	.000 (.0)	.010
D23	D24	-.052	.000 (.0)	.010
D24	TP34	-.348	.000 (.0)	.010

ELEV. DIFF. RMS ERROR = .000 SNOOP RMS = .0
 MAX. ELEV. DIFF. RESIDUAL D24 - TP34 OF .000

95% CONFIDENCE F STATISTIC STANDARD ERROR MULTIPLIER FOR 1 D.F. IS 20.00

STATION	ADJUSTED ELEV.	STANDARD ERROR
TP35	5.188	.000
D2	7.137	.040
D3	7.187	.055
D4	6.314	.066
D5	6.446	.075
D6	6.771	.081
D7	7.604	.087
D8	7.622	.091
D9	5.152	.094
D10	4.609	.097
D11	4.578	.099
D12	5.066	.100
D13	5.082	.100
D14	5.067	.100
D15	4.578	.099
D16	4.610	.097
D17	5.152	.094

29 Adjustment.txt

D18	7.619	.091
D19	7.601	.087
D20	6.766	.081
D21	6.442	.075
D22	6.309	.066
D23	7.184	.055
D24	7.131	.040
TP34	6.783	.000

STANDARD ERROR OF UNIT WEIGHT IS .204
WITH 1 DEGREES OF FREEDOM

CHI SQUARED TEST ON ANALYSIS

.031 < .204 < 1.960
(LOW) (HIGH)
PASSES AT THE 5 % SIGNIFICANCE LEVEL

1834D. CHL

PROJECT NAME IS 1834D

ELEVATION CLOSURE REPORT

SUM OF DISTANCES ALONG SURVEY IS 7969.500

CLOSURE IN ELEVATION (Z) = -.010

CLOSURE PER STATION = .000

PRECISION = 1 / 796950.

STATION	ELEVATION (Z)
TP35	5.188
D2	7.137
D3	7.187
D4	6.314
D5	6.446
D6	6.771
D7	7.604
D8	7.622
D9	5.152
D10	4.609
D11	4.578
D12	5.066
D13	5.082
D14	5.067
D15	4.578
D16	4.610
D17	5.152
D18	7.619
D19	7.601
D20	6.766
D21	6.442
D22	6.309
D23	7.184
D24	7.131
TP34	6.783

TOTAL LENGTH OF EVALUATED SURVEY DISTANCE = 1.509 MILES

OVERALL PRECISION = 1 / 796950.

1834D. CTL

G 00	1834D		
G 01	TP35	TP35	0901 83F29
G 02		5.1880	.0001
G 01	TP34	TP34	0901 83F29
G 02		6.7830	.0001

1834D. XYZ

G 00	1834D. XYZ		
G 01	TP35	P G1 NL-TP#35 SW 87AVE FB682	0901 83F29

29 Adjustment.txt

G 02		5. 188	. 000
G 01 D2	P G1	NL-TP#1	0901 83F29
G 02		7. 137	. 040
G 01 D3	P G1	NL-TP#2	0901 83F29
G 02		7. 187	. 055
G 01 D4	P G1	NL-TP#3	0901 83F29
G 02		6. 314	. 066
G 01 D5	P G1	NL-TP#4	0901 83F29
G 02		6. 446	. 075
G 01 D6	P G1	NL-TP#5	0901 83F29
G 02		6. 771	. 081
G 01 D7	P G1	NL-TP#6	0901 83F29
G 02		7. 604	. 087
G 01 D8	P G1	NL-TP#7	0901 83F29
G 02		7. 622	. 091
G 01 D9	P G1	NL-TP#8	0901 83F29
G 02		5. 152	. 094
G 01 D10	P G1	NL-TP#9	0901 83F29
G 02		4. 609	. 097
G 01 D11	P G1	NL-TP#10	0901 83F29
G 02		4. 578	. 099
G 01 D12	P G1	NL-TP#11	0901 83F29
G 02		5. 066	. 100
G 01 D13	P G1	NL-TP#12	0901 83F29
G 02		5. 082	. 100
G 01 D14	P G1	NL-TP#13	0901 83F29
G 02		5. 067	. 100
G 01 D15	P G1	NL-TP#14	0901 83F29
G 02		4. 578	. 099
G 01 D16	P G1	NL-TP#15	0901 83F29
G 02		4. 610	. 097
G 01 D17	P G1	NL-TP#16	0901 83F29
G 02		5. 152	. 094
G 01 D18	P G1	NL-TP#17	0901 83F29
G 02		7. 619	. 091
G 01 D19	P G1	NL-TP#18	0901 83F29
G 02		7. 601	. 087
G 01 D20	P G1	NL-TP#19	0901 83F29
G 02		6. 766	. 081
G 01 D21	P G1	NL-TP#20	0901 83F29
G 02		6. 442	. 075
G 01 D22	P G1	NL-TP#21	0901 83F29
G 02		6. 309	. 066
G 01 D23	P G1	NL-TP#22	0901 83F29
G 02		7. 184	. 055
G 01 D24	P G1	NL-TP#23	0901 83F29
G 02		7. 131	. 040
G 01 TP34	P G1	NL-TP#34 SW 87AVE FB682	0901 83F29
G 02		6. 783	. 000
G 01 MW1	P G1	MW-BBCWW1A	0901 83F29
G 99 NORTH RIM OF OUTER CASING		5. 608	
G 02			
G 01 MW2	P G1	MW-BBCWW1A	0901 83F29
G 99 NORTH SIBE OF 2" PVC WELL		5. 428	
G 02			

88 Adjustment 1834E.txt

1834E. OBS

H 00	1834E			08: 19: 07	08/26/82	08: 19: 07	08/26/82	ENGLISH	2. 55
H 99	bi scayne bay wells								
C 00	08: 20: 55	08/26/82	90	30. 0	000001	SH	CC	JS	
C 01	WILD	NA2000		91119				100	
S 00	S1					P	F8		
S 99	task 2								
S 01	08: 22: 58	08/26/82	1. 000						
O 00	BM1					P	F8	CMON-R725	
O 09	08: 26: 49								5. 743 4. 531 3. 319
O 00	TP1					P	F8		
O 09	08: 34: 17								6. 382 5. 162 3. 942
S 00	S2					P	F8		
S 01	08: 34: 22	08/26/82	1. 000						
O 00	TP1					P	F8		
O 09	08: 37: 23								6. 941 5. 694 4. 447
O 00	TP2					P	F8		
O 09	08: 39: 57								6. 100 4. 837 3. 574
S 00	S3					P	F8		
S 01	08: 40: 03	08/26/82	1. 000						
O 00	TP2					P	F8		
O 09	08: 42: 57								6. 368 5. 107 3. 846
O 00	TP3					P	F8		
O 09	08: 45: 48								6. 332 5. 072 3. 812
S 00	S4					P	F8		
S 01	08: 45: 54	08/26/82	1. 000						
O 00	TP3					P	F8		
O 09	08: 48: 43								6. 129 4. 867 3. 605
O 00	TP4					P	F8		
O 09	08: 51: 34								6. 556 5. 295 4. 034
S 00	S5					P	F8		
S 01	08: 51: 38	08/26/82	1. 000						
O 00	TP4					P	F8		
O 09	08: 54: 30								6. 112 4. 860 3. 608
O 00	TP5					P	F8		
O 09	08: 57: 15								5. 352 4. 099 2. 846
S 00	S6					P	F8		
S 01	08: 57: 20	08/26/82	1. 000						
O 00	TP5					P	F8		
O 09	09: 00: 11								5. 434 4. 192 2. 950
O 00	TP6					P	F8		
O 09	09: 03: 29								5. 986 4. 746 3. 506
S 00	S7					P	F8		
S 01	09: 03: 33	08/26/82	1. 000						
O 00	TP6					P	F8		
O 09	09: 07: 26								5. 767 4. 515 3. 263
O 00	TP7					P	F8		
O 09	09: 10: 13								6. 636 5. 370 4. 104
S 00	S8					P	F8		
S 01	09: 10: 19	08/26/82	1. 000						
O 00	TP7					P	F8		
O 09	09: 13: 23								6. 456 5. 175 3. 894
O 00	TP8					P	F8		
O 09	09: 16: 12								6. 285 4. 991 3. 697
S 00	S9					P	F8		
S 01	09: 16: 16	08/26/82	1. 000						
O 00	TP8					P	F8		
O 09	09: 19: 04								7. 067 5. 787 4. 507
O 00	TP9					P	F8		
O 09	09: 22: 09								6. 953 5. 668 4. 383
S 00	S10					P	F8		
S 01	09: 22: 13	08/26/82	1. 000						
O 00	TP9					P	F8		
O 09	09: 26: 02								6. 500 5. 252 4. 004
O 00	TP10					P	F8		
O 09	09: 29: 29								6. 753 5. 497 4. 241
S 00	S11					P	F8		
S 01	09: 29: 33	08/26/82	1. 000						
O 00	TP10					P	F8		
O 09	09: 32: 11								6. 352 5. 063 3. 774

88 Adjustment 1834E.txt

0 00	TP11			P F8			
0 09	09: 36: 15				6. 579	5. 303	4. 027
S 00	S12			P F8			
S 01	09: 36: 20	08/26/82	1. 000				
0 00	TP11			P F8			
0 09	09: 39: 31				7. 106	5. 888	4. 670
0 00	TP12			P F8			
0 09	09: 41: 58				6. 466	5. 213	3. 960
S 00	S13			P F8			
S 01	09: 42: 03	08/26/82	1. 000				
0 00	TP12			P F8			
0 09	09: 45: 01				5. 958	4. 711	3. 464
0 00	TP13			P F8			
0 09	09: 47: 58				6. 451	5. 193	3. 935
S 00	S14			P F8			
S 01	09: 48: 03	08/26/82	1. 000				
0 00	TP13			P F8			
0 09	09: 50: 42				6. 796	5. 559	4. 322
0 00	TP14			P F8			
0 09	09: 55: 11				6. 041	4. 792	3. 543
S 00	S15			P F8			
S 01	09: 55: 16	08/26/82	1. 000				
0 00	TP14			P F8			
0 09	09: 57: 56				6. 136	4. 876	3. 616
0 00	TP15			P F8			
0 09	10: 00: 48				5. 698	4. 438	3. 178
S 00	S16			P F8			
S 01	10: 00: 54	08/26/82	1. 000				
0 00	TP15			P F8			
0 09	10: 03: 40				6. 580	5. 294	4. 008
0 00	TP16			P F8			
0 09	10: 06: 39				6. 849	5. 584	4. 319
S 00	S17			P F8			
S 01	10: 06: 44	08/26/82	1. 000				
0 00	TP16			P F8			
0 09	10: 29: 12				5. 070	3. 981	2. 892
0 00	TP17			P F8			
0 09	10: 33: 11				7. 777	6. 672	5. 567
S 00	S18			P F8			
S 01	10: 33: 15	08/26/82	1. 000				
0 00	TP17			P F8			
0 09	10: 36: 11				5. 820	4. 589	3. 358
0 00	TP18			P F8			
0 09	10: 39: 05				6. 725	5. 483	4. 241
S 00	S19			P F8			
S 01	10: 39: 10	08/26/82	1. 000				
0 00	TP18			P F8			
0 09	10: 41: 59				7. 196	5. 947	4. 698
0 00	TP19			P F8			
0 09	10: 44: 46				6. 207	4. 950	3. 693
S 00	S20			P F8			
S 01	10: 44: 50	08/26/82	1. 000				
0 00	TP19			P F8			
0 09	10: 47: 38				6. 249	5. 006	3. 763
0 00	TP20			P F8			
0 09	10: 50: 23				5. 858	4. 620	3. 382
S 00	S21			P F8			
S 01	10: 50: 31	08/26/82	1. 000				
0 00	TP20			P F8			
0 09	10: 54: 23				6. 104	4. 840	3. 576
0 00	TP21			P F8			
0 09	10: 57: 47				6. 583	5. 320	4. 057
S 00	S22			P F8			
S 01	10: 57: 51	08/26/82	1. 000				
0 00	TP21			P F8			
0 09	11: 01: 29				6. 771	5. 504	4. 237
0 00	TP22			P F8			
0 09	11: 04: 36				6. 634	5. 369	4. 104
S 00	S23			P F8			
S 01	11: 04: 42	08/26/82	1. 000				

88 Adjustment 1834E.txt

0 00	TP22			P F8			
0 09	11: 07: 50				6. 539	5. 314	4. 089
0 00	TP23			P F8			
0 09	11: 10: 43				6. 741	5. 501	4. 261
S 00	S24			P F8			
S 01	11: 10: 48	08/26/82	1. 000				
0 00	TP23			P F8			
0 09	11: 14: 03				6. 142	4. 874	3. 606
0 00	TP24			P F8			
0 09	11: 17: 14				5. 974	4. 713	3. 452
S 00	S25			P F8			
S 01	11: 17: 23	08/26/82	1. 000				
0 00	TP24			P F8			
0 09	11: 20: 05				6. 591	5. 288	3. 985
0 00	TP25			P F8			
0 09	11: 23: 08				6. 516	5. 202	3. 888
S 00	S26			P F8			
S 01	11: 23: 12	08/26/82	1. 000				
0 00	TP25			P F8			
0 09	11: 27: 12				5. 043	4. 818	4. 593
0 00	BM2			P F8 CMON-h098			
0 09	11: 28: 16				6. 763	6. 532	6. 301
S 00	S27			P F8			
S 01	12: 36: 48	08/26/82	1. 000				
0 00	BM2			P F8 CMON-h098			
0 09	12: 41: 24				7. 971	6. 707	5. 443
0 00	TP26			P F8			
0 09	12: 44: 07				6. 205	4. 948	3. 691
S 00	S28			P F8			
S 01	12: 44: 34	08/26/82	1. 000				
0 00	TP26			P F8			
0 09	12: 47: 32				6. 702	5. 440	4. 178
0 00	TP27			P F8			
0 09	12: 50: 32				6. 513	5. 242	3. 971
S 00	S29			P F8			
S 01	12: 50: 38	08/26/82	1. 000				
0 00	TP27			P F8			
0 09	12: 54: 46				4. 694	4. 114	3. 534
0 00	TP28			P F8			
0 09	12: 57: 30				5. 714	5. 031	4. 348
S 00	S30			P F8			
S 01	12: 57: 35	08/26/82	1. 000				
0 00	TP28			P F8			
0 09	12: 59: 58				6. 581	5. 304	4. 027
0 00	TP29			P F8			
0 09	13: 02: 46				6. 433	5. 139	3. 845
S 00	S31			P F8			
S 01	13: 02: 51	08/26/82	1. 000				
0 00	TP29			P F8			
0 09	13: 05: 50				6. 391	5. 114	3. 837
0 00	TP30			P F8			
0 09	13: 08: 58				6. 766	5. 480	4. 194
S 00	S32			P F8			
S 01	13: 09: 03	08/26/82	1. 000				
0 00	TP30			P F8			
0 09	13: 11: 51				6. 516	5. 256	3. 996
0 00	TP31			P F8			
0 09	13: 14: 53				6. 417	5. 155	3. 893
S 00	S33			P F8			
S 01	13: 14: 57	08/26/82	1. 000				
0 00	TP31			P F8			
0 09	13: 17: 46				6. 452	5. 178	3. 904
0 00	TP32			P F8			
0 09	13: 20: 56				6. 165	4. 908	3. 651
S 00	S34			P F8			
S 01	13: 21: 02	08/26/82	1. 000				
0 00	TP32			P F8			
0 09	13: 23: 53				6. 491	5. 538	4. 585
0 00	TP33			P F8			
0 09	13: 25: 42				5. 949	5. 068	4. 187

88 Adjustment 1834E.txt

0 00	MW1			P F8	MW-bbcwmw3a				
0 09	13: 28: 56					3. 246	2. 343	1. 440	
0 00	MW2			P F8	MW-bbcwmw3b				
0 09	13: 29: 56					3. 228	2. 303	1. 378	
0 00	GND1			P F8	GND				
0 09	13: 30: 26					6. 191	5. 270	4. 349	
S 00	S35			P F8					
S 01	13: 30: 50	08/26/82	1. 000						
0 00	TP33			P F8					
0 09	13: 31: 29					5. 987	5. 106	4. 225	
0 00	TP32			P F8					
0 09	13: 34: 50					6. 530	5. 576	4. 622	
S 00	S36			P F8					
S 01	13: 35: 04	08/26/82	1. 000						
0 00	TP32			P F8					
0 09	13: 37: 31					6. 235	4. 921	3. 607	
0 00	TP31			P F8					
0 09	13: 38: 28					6. 414	5. 197	3. 980	
S 00	S37			P F8					
S 01	13: 38: 35	08/26/82	1. 000						
0 00	TP31			P F8					
0 09	13: 41: 02					6. 321	5. 035	3. 749	
0 00	TP30			P F8					
0 09	13: 41: 50					6. 375	5. 141	3. 907	
S 00	S38			P F8					
S 01	13: 41: 56	08/26/82	1. 000						
0 00	TP30			P F8					
0 09	13: 44: 26					6. 218	4. 926	3. 634	
0 00	TP29			P F8					
0 09	13: 45: 20					5. 830	4. 560	3. 290	
S 00	S39			P F8					
S 01	13: 45: 24	08/26/82	1. 000						
0 00	TP29			P F8					
0 09	13: 48: 06					6. 432	5. 146	3. 860	
0 00	TP28			P F8					
0 09	13: 49: 12					6. 594	5. 309	4. 024	
S 00	S40			P F8					
S 01	13: 49: 19	08/26/82	1. 000						
0 00	TP28			P F8					
0 09	13: 52: 08					6. 955	5. 682	4. 409	
0 00	TP34			P F8					
0 09	14: 11: 46					6. 128	4. 865	3. 602	
S 00	S41			P F8					
S 01	14: 11: 52	08/26/82	1. 000						
0 00	TP34			P F8					
0 09	14: 14: 37					6. 297	5. 027	3. 757	
0 00	TP35			P F8					
0 09	14: 17: 19					6. 374	5. 111	3. 848	
S 00	S42			P F8					
S 01	14: 17: 24	08/26/82	1. 000						
0 00	TP35			P F8					
0 09	14: 20: 27					6. 256	5. 009	3. 762	
0 00	TP36			P F8					
0 09	14: 23: 32					6. 480	5. 224	3. 968	
S 00	S43			P F8					
S 01	14: 23: 37	08/26/82	1. 000						
0 00	TP36			P F8					
0 09	14: 26: 39					6. 149	4. 928	3. 707	
0 00	TP37			P F8					
0 09	14: 30: 10					6. 667	5. 404	4. 141	
S 00	S44			P F8					
S 01	14: 30: 18	08/26/82	1. 000						
0 00	TP37			P F8					
0 09	14: 34: 15					6. 493	5. 234	3. 975	
0 00	TP38			P F8					
0 09	14: 36: 49					5. 940	4. 686	3. 432	
S 00	S45			P F8					
S 01	14: 36: 53	08/26/82	1. 000						
0 00	TP38			P F8					
0 09	14: 41: 07					5. 810	4. 793	3. 776	

88 Adjustment 1834E.txt

0 00	TP39			P F8			
0 09	14: 43: 11				4. 679	3. 765	2. 851
S 00	S46			P F8			
S 01	14: 43: 15	08/26/82	1. 000				
0 00	TP39			P F8			
0 09	14: 46: 23				6. 614	5. 385	4. 156
0 00	TP40			P F8			
0 09	14: 49: 14				6. 276	5. 027	3. 778
S 00	S47			P F8			
S 01	14: 49: 25	08/26/82	1. 000				
0 00	TP40			P F8			
0 09	14: 52: 17				6. 339	5. 098	3. 857
0 00	TP41			P F8			
0 09	14: 54: 51				6. 191	4. 956	3. 721
S 00	S48			P F8			
S 01	14: 54: 56	08/26/82	1. 000				
0 00	TP41			P F8			
0 09	15: 00: 20				9. 352	7. 850	6. 348
0 00	TP42			P F8			
0 09	15: 05: 14				5. 467	3. 977	2. 487
S 00	S49			P F8			
S 01	15: 27: 40	08/26/82	1. 000				
0 00	TP42			P F8			
0 09	15: 30: 02				6. 368	5. 146	3. 924
0 00	TP43			P F8			
0 09	15: 32: 47				5. 752	4. 523	3. 294
S 00	S50			P F8			
S 01	15: 32: 53	08/26/82	1. 000				
0 00	TP43			P F8			
0 09	15: 36: 54				6. 468	5. 172	3. 876
0 00	TP44			P F8			
0 09	15: 40: 02				7. 447	6. 142	4. 837
S 00	S51			P F8			
S 01	15: 40: 07	08/26/82	1. 000				
0 00	TP44			P F8			
0 09	15: 42: 44				6. 445	5. 157	3. 869
0 00	TP45			P F8			
0 09	15: 45: 39				6. 926	5. 646	4. 366
S 00	S52			P F8			
S 01	15: 45: 45	08/26/82	1. 000				
0 00	TP45			P F8			
0 09	15: 48: 33				5. 770	4. 482	3. 194
0 00	TP46			P F8			
0 09	15: 51: 20				6. 753	5. 476	4. 199
S 00	S53			P F8			
S 01	15: 51: 27	08/26/82	1. 000				
0 00	TP46			P F8			
0 09	15: 54: 05				6. 305	5. 011	3. 717
0 00	TP47			P F8			
0 09	15: 57: 09				5. 405	4. 112	2. 819
S 00	S54			P F8			
S 01	15: 57: 14	08/26/82	1. 000				
0 00	TP47			P F8			
0 09	15: 59: 53				6. 698	5. 425	4. 152
0 00	TP48			P F8			
0 09	16: 02: 54				7. 543	6. 281	5. 019
S 00	S55			P F8			
S 01	16: 02: 58	08/26/82	1. 000				
0 00	TP48			P F8			
0 09	16: 05: 38				6. 132	4. 834	3. 536
0 00	TP49			P F8			
0 09	16: 09: 27				6. 010	4. 696	3. 382
S 00	S56			P F8			
S 01	16: 09: 31	08/26/82	1. 000				
0 00	TP49			P F8			
0 09	16: 12: 25				6. 416	5. 139	3. 862
0 00	TP50			P F8			
0 09	16: 15: 18				5. 722	4. 438	3. 154
S 00	S57			P F8			
S 01	16: 15: 23	08/26/82	1. 000				

88 Adjustment 1834E.txt

```

O 00 TP50          P F8
O 09 16: 18: 14   6. 193  4. 922  3. 651
O 00 TP51          P F8
O 09 16: 21: 08   6. 559  5. 299  4. 039
S 00 S58          P F8
S 01 16: 21: 12 08/26/82  1. 000
O 00 TP51          P F8
O 09 16: 23: 59   5. 046  3. 766  2. 486
O 00 TP52          P F8
O 09 16: 26: 58   7. 430  6. 190  4. 950
S 00 S59          P F8
S 01 16: 27: 07 08/26/82  1. 000
O 00 TP52          P F8
O 09 16: 29: 45   4. 976  4. 431  3. 886
O 00 BM3          P F8 PIP-r724
O 09 16: 30: 51   3. 967  3. 525  3. 083
R 00 00: 00: 00 12/31/99
R 99 TAPE OBSERVATION DATA STARTS HERE
C 00 00: 00: 00 12/31/99
C 99 DUMMY TAPE CALIBRATION TO RE-INITIALIZE COLLIMATION TO ZERO
C 01 TAPING          TAPING          10 99 100
C 03 00: 00: 00          D   0  0  0.0  90  0  0.0
C 03 00: 00: 00          D   0  0  0.0  90  0  0.0
C 03 00: 00: 00          R 180  0  0.0 270  0  0.0
C 03 00: 00: 00          R 180  0  0.0 270  0  0.0
R 00 00: 00: 00 12/31/99
R 99 TAPE OBSERVATION DATA ENDS HERE
R 00 00: 00: 00 12/31/99
R 99 TAPE TRAVERSE DATA (I. E. CHAINS) START HERE
R 00 00: 00: 00 12/31/99
R 99 TAPE TRAVERSE DATA (I. E. CHAINS) ENDS HERE
R 00 00: 00: 00 12/31/99
R 99 CHAIN DATA STARTS HERE
R 00 00: 00: 00 12/31/99
R 99 CHAIN DATA ENDS HERE
R 00 00: 00: 00 12/31/99
R 99 PREFIX DATA STARTS HERE
P 00
P 01 S59, BM3, TP52, MW2, GND1
' 1F2- 9||"ñT' 1^"- €α α x*" |+- "0"¼L' 1^"-β- |ÿ-i+jÿ-â" xL' 1^"-
R 00 00: 00: 00 12/31/99
R 99 PREFIX DATA ENDS HERE

```

1834E. 1D

MI SCLOSURE OF MULTIPLE ELEV. DIFFERENCE MEASUREMENTS

```

STATIONS          MI SCLOSURE
TP32 - TP33          .000
TP31 - TP32          .006
TP30 - TP31          .005
TP29 - TP30          .000
TP28 - TP29          .002
END OF MI SCLOSURE REPORT

```

69 OF 119 STATIONS IDENTIFIED AS VERTICAL SIDESHOTS
 BAND IS 1 STATIONS
 LEVEL NETWORK ADJUSTMENT

NUMBER OF BENCHMARKS = 2
 NUMBER OF STATIONS = 50
 NUMBER OF MEASUREMENTS = 49
 NUMBER OF REQUIRED TERMS FOR NORMAL EQUATIONS = 99

RESULTS OF ADJUSTMENT

BENCHMARK ELEVATION RESIDUALS

STATION	INPUT ELEV.	ADJUSTED ELEV.	ERROR EST.	RESIDUAL
BM1	5.260	5.260	.000	.000 (.0)
BM3	5.330	5.330	.000	.000 (.0)

88 Adjustment 1834E.txt

BENCHMARK RMS ERROR = .000 SNOOP RMS = .0
 MAX. BENCHMARK RESIDUAL AT STATION BM3 OF .000

RESIDUALS

FROM	TO	MEASURED	RESIDUAL	EST. ERROR
BM1	TP1	-.631	-.001 (.1)	.010
TP1	TP2	.857	-.001 (.1)	.010
TP2	TP3	.035	-.001 (.1)	.010
TP3	TP4	-.428	-.001 (.1)	.010
TP4	TP5	.761	-.001 (.1)	.010
TP5	TP6	-.554	-.001 (.1)	.010
TP6	TP7	-.855	-.001 (.1)	.010
TP7	TP8	.184	-.001 (.1)	.010
TP8	TP9	.119	-.001 (.1)	.010
TP9	TP10	-.245	-.001 (.1)	.010
TP10	TP11	-.240	-.001 (.1)	.010
TP11	TP12	.675	-.001 (.1)	.010
TP12	TP13	-.482	-.001 (.1)	.010
TP13	TP14	.767	-.001 (.1)	.010
TP14	TP15	.438	-.001 (.1)	.010
TP15	TP16	-.290	-.001 (.1)	.010
TP16	TP17	-2.691	-.001 (.1)	.010
TP17	TP18	-.894	-.001 (.1)	.010
TP18	TP19	.997	-.001 (.1)	.010
TP19	TP20	.386	-.001 (.1)	.010
TP20	TP21	-.480	-.001 (.1)	.010
TP21	TP22	.135	-.001 (.1)	.010
TP22	TP23	-.187	-.001 (.1)	.010
TP23	TP24	.161	-.001 (.1)	.010
TP24	TP25	.086	-.001 (.1)	.010
TP25	BM2	-1.714	-.001 (.1)	.010
BM2	TP26	1.759	-.001 (.1)	.010
TP26	TP27	.198	-.001 (.1)	.010
TP27	TP28	-.917	-.001 (.1)	.010
TP28	TP34	.817	-.001 (.1)	.010
TP34	TP35	-.084	-.001 (.1)	.010
TP35	TP36	-.215	-.001 (.1)	.010
TP36	TP37	-.476	-.001 (.1)	.010
TP37	TP38	.548	-.001 (.1)	.010
TP38	TP39	1.028	-.001 (.1)	.010
TP39	TP40	.358	-.001 (.1)	.010
TP40	TP41	.142	-.001 (.1)	.010
TP41	TP42	3.873	-.001 (.1)	.010
TP42	TP43	.623	-.001 (.1)	.010
TP43	TP44	-.970	-.001 (.1)	.010
TP44	TP45	-.489	-.001 (.1)	.010
TP45	TP46	-.994	-.001 (.1)	.010
TP46	TP47	.899	-.001 (.1)	.010
TP47	TP48	-.856	-.001 (.1)	.010
TP48	TP49	.138	-.001 (.1)	.010
TP49	TP50	.701	-.001 (.1)	.010
TP50	TP51	-.377	-.001 (.1)	.010
TP51	TP52	-2.424	-.001 (.1)	.010
TP52	BM3	.906	-.001 (.1)	.010

ELEV. DIFF. RMS ERROR = .001 SNOOP RMS = .1
 MAX. ELEV. DIFF. RESIDUAL TP40 - TP41 OF .001

95% CONFIDENCE F STATISTIC STANDARD ERROR MULTIPLIER FOR 1 D.F. IS 20.00

STATION	ADJUSTED ELEV.	STANDARD ERROR
BM1	5.260	.001
TP1	4.628	.079
TP2	5.485	.111

88 Adjustment 1834E.txt

TP3	5. 519	. 134
TP4	5. 091	. 153
TP5	5. 851	. 170
TP6	5. 297	. 184
TP7	4. 441	. 196
TP8	4. 624	. 207
TP9	4. 743	. 217
TP10	4. 497	. 226
TP11	4. 257	. 234
TP12	4. 931	. 241
TP13	4. 449	. 247
TP14	5. 215	. 253
TP15	5. 652	. 258
TP16	5. 362	. 263
TP17	2. 670	. 267
TP18	1. 776	. 270
TP19	2. 772	. 273
TP20	3. 158	. 275
TP21	2. 677	. 277
TP22	2. 811	. 279
TP23	2. 624	. 279
TP24	2. 784	. 280
TP25	2. 870	. 280
BM2	1. 155	. 279
TP26	2. 914	. 279
TP27	3. 111	. 277
TP28	2. 193	. 275
TP34	3. 010	. 273
TP35	2. 925	. 270
TP36	2. 710	. 267
TP37	2. 233	. 263
TP38	2. 781	. 258
TP39	3. 808	. 253
TP40	4. 165	. 247
TP41	4. 307	. 241
TP42	8. 179	. 234
TP43	8. 802	. 226
TP44	7. 831	. 217
TP45	7. 342	. 207
TP46	6. 347	. 196
TP47	7. 245	. 184
TP48	6. 389	. 170
TP49	6. 526	. 153
TP50	7. 227	. 134
TP51	6. 849	. 111
TP52	4. 425	. 079
BM3	5. 330	. 001

STANDARD ERROR OF UNIT WEIGHT IS . 400
 WITH 1 DEGREES OF FREEDOM

CHI SQUARED TEST ON ANALYSIS
 . 031 < . 400 < 1. 960
 (LOW) (HIGH)
 PASSES AT THE 5 % SIGNIFICANCE LEVEL

1834E. CHL

PROJECT NAME IS 1834E

ELEVATION CLOSURE REPORT
 SUM OF DISTANCES ALONG SURVEY IS 23218. 900
 CLOSURE IN ELEVATION (Z) = -. 028
 CLOSURE PER STATION = -. 001
 PRECISION = 1 / 829246.
 STATION ELEVATION (Z)
 BM1 5. 260
 TP1 4. 628
 TP2 5. 485

88 Adjustment 1834E.txt

TP3	5.519
TP4	5.091
TP5	5.851
TP6	5.297
TP7	4.441
TP8	4.624
TP9	4.743
TP10	4.497
TP11	4.257
TP12	4.931
TP13	4.449
TP14	5.215
TP15	5.652
TP16	5.362
TP17	2.670
TP18	1.776
TP19	2.772
TP20	3.158
TP21	2.677
TP22	2.811
TP23	2.624
TP24	2.784
TP25	2.870
BM2	1.155
TP26	2.914
TP27	3.111
TP28	2.193
TP34	3.010
TP35	2.925
TP36	2.710
TP37	2.233
TP38	2.781
TP39	3.808
TP40	4.165
TP41	4.307
TP42	8.179
TP43	8.802
TP44	7.831
TP45	7.342
TP46	6.347
TP47	7.245
TP48	6.389
TP49	6.526
TP50	7.227
TP51	6.849
TP52	4.425
BM3	5.330

TOTAL LENGTH OF EVALUATED SURVEY DISTANCE = 4.398 MILES
 OVERALL PRECISION = 1 / 829246.

1834E. CTL

G 00	1834E				
G 01	BM1	BM1	P F8 IRC R-725		0901 83F88
G 02			5.2600		.0001
GD01	BM2	BM2	P F8 IRC H-098		0901 83F88
GD02			13.1200???		.0001
G 01	BM3	BM3	P F8 IRC R-724		0901 83F88
G 02			5.3300		.0001

1834E. XYZ

G 00	1834E. XYZ				
G 01	BM1		P F8 CMON-r725		0901 83F88
G 02			5.260		.001
G 01	TP1		P F8		0901 83F88
G 02			4.628		.079
G 01	TP2		P F8		0901 83F88

88 Adjustment 1834E.txt

G 02		5. 485	. 111
G 01 TP3	P F8		0901 83F88
G 02		5. 519	. 134
G 01 TP4	P F8		0901 83F88
G 02		5. 091	. 153
G 01 TP5	P F8		0901 83F88
G 02		5. 851	. 170
G 01 TP6	P F8		0901 83F88
G 02		5. 297	. 184
G 01 TP7	P F8		0901 83F88
G 02		4. 441	. 196
G 01 TP8	P F8		0901 83F88
G 02		4. 624	. 207
G 01 TP9	P F8		0901 83F88
G 02		4. 743	. 217
G 01 TP10	P F8		0901 83F88
G 02		4. 497	. 226
G 01 TP11	P F8		0901 83F88
G 02		4. 257	. 234
G 01 TP12	P F8		0901 83F88
G 02		4. 931	. 241
G 01 TP13	P F8		0901 83F88
G 02		4. 449	. 247
G 01 TP14	P F8		0901 83F88
G 02		5. 215	. 253
G 01 TP15	P F8		0901 83F88
G 02		5. 652	. 258
G 01 TP16	P F8		0901 83F88
G 02		5. 362	. 263
G 01 TP17	P F8		0901 83F88
G 02		2. 670	. 267
G 01 TP18	P F8		0901 83F88
G 02		1. 776	. 270
G 01 TP19	P F8		0901 83F88
G 02		2. 772	. 273
G 01 TP20	P F8		0901 83F88
G 02		3. 158	. 275
G 01 TP21	P F8		0901 83F88
G 02		2. 677	. 277
G 01 TP22	P F8		0901 83F88
G 02		2. 811	. 279
G 01 TP23	P F8		0901 83F88
G 02		2. 624	. 279
G 01 TP24	P F8		0901 83F88
G 02		2. 784	. 280
G 01 TP25	P F8		0901 83F88
G 02		2. 870	. 280
G 01 BM2	P F8	CMON-h098	0901 83F88
G 02		1. 155	. 279
G 01 TP26	P F8		0901 83F88
G 02		2. 914	. 279
G 01 TP27	P F8		0901 83F88
G 02		3. 111	. 277
G 01 TP28	P F8		0901 83F88
G 02		2. 193	. 275
G 01 TP29	P F8		0901 83F88
G 02		2. 357	
G 01 TP30	P F8		0901 83F88
G 02		1. 991	
G 01 TP31	P F8		0901 83F88
G 02		2. 095	
G 01 TP32	P F8		0901 83F88
G 02		2. 368	
G 01 TP33	P F8		0901 83F88
G 02		2. 838	
G 01 MW1	P F8	MW-bbcwmw3a GW2	0901 83F88
G 02		5. 563	
G 01 MW2	P F8	MW-bbcwmw3b GW2	0901 83F88
G 02		5. 603	
G 01 GND1	P F8	GND	0901 83F88

88 Adjustment 1834E.txt

G 02		2. 636	
G 01 TP34	P F8		0901 83F88
G 02		3. 010	. 273
G 01 TP35	P F8		0901 83F88
G 02		2. 925	. 270
G 01 TP36	P F8		0901 83F88
G 02		2. 710	. 267
G 01 TP37	P F8		0901 83F88
G 02		2. 233	. 263
G 01 TP38	P F8		0901 83F88
G 02		2. 781	. 258
G 01 TP39	P F8		0901 83F88
G 02		3. 808	. 253
G 01 TP40	P F8		0901 83F88
G 02		4. 165	. 247
G 01 TP41	P F8		0901 83F88
G 02		4. 307	. 241
G 01 TP42	P F8		0901 83F88
G 02		8. 179	. 234
G 01 TP43	P F8		0901 83F88
G 02		8. 802	. 226
G 01 TP44	P F8		0901 83F88
G 02		7. 831	. 217
G 01 TP45	P F8		0901 83F88
G 02		7. 342	. 207
G 01 TP46	P F8		0901 83F88
G 02		6. 347	. 196
G 01 TP47	P F8		0901 83F88
G 02		7. 245	. 184
G 01 TP48	P F8		0901 83F88
G 02		6. 389	. 170
G 01 TP49	P F8		0901 83F88
G 02		6. 526	. 153
G 01 TP50	P F8		0901 83F88
G 02		7. 227	. 134
G 01 TP51	P F8		0901 83F88
G 02		6. 849	. 111
G 01 TP52	P F8		0901 83F88
G 02		4. 425	. 079
G 01 BM3	P F8 PIP-r724		0901 83F88
G 02		5. 330	. 001

29 Adjustment 1834E.txt

1834E. OBS

H 00	1834E			08: 19: 07	08/26/82	08: 19: 07	08/26/82	ENGLISH	2. 55
H 99	bi scayne bay wells								
C 00	08: 20: 55	08/26/82	90	30. 0	000001	SH	CC JS		
C 01	WILD	NA2000		91119			100		
S 00	S1					P F8			
S 99	task 2								
S 01	08: 22: 58	08/26/82	1. 000						
O 00	BM1					P F8	CMON-R725		
O 09	08: 26: 49							5. 743	4. 531 3. 319
O 00	TP1					P F8			
O 09	08: 34: 17							6. 382	5. 162 3. 942
S 00	S2					P F8			
S 01	08: 34: 22	08/26/82	1. 000						
O 00	TP1					P F8			
O 09	08: 37: 23							6. 941	5. 694 4. 447
O 00	TP2					P F8			
O 09	08: 39: 57							6. 100	4. 837 3. 574
S 00	S3					P F8			
S 01	08: 40: 03	08/26/82	1. 000						
O 00	TP2					P F8			
O 09	08: 42: 57							6. 368	5. 107 3. 846
O 00	TP3					P F8			
O 09	08: 45: 48							6. 332	5. 072 3. 812
S 00	S4					P F8			
S 01	08: 45: 54	08/26/82	1. 000						
O 00	TP3					P F8			
O 09	08: 48: 43							6. 129	4. 867 3. 605
O 00	TP4					P F8			
O 09	08: 51: 34							6. 556	5. 295 4. 034
S 00	S5					P F8			
S 01	08: 51: 38	08/26/82	1. 000						
O 00	TP4					P F8			
O 09	08: 54: 30							6. 112	4. 860 3. 608
O 00	TP5					P F8			
O 09	08: 57: 15							5. 352	4. 099 2. 846
S 00	S6					P F8			
S 01	08: 57: 20	08/26/82	1. 000						
O 00	TP5					P F8			
O 09	09: 00: 11							5. 434	4. 192 2. 950
O 00	TP6					P F8			
O 09	09: 03: 29							5. 986	4. 746 3. 506
S 00	S7					P F8			
S 01	09: 03: 33	08/26/82	1. 000						
O 00	TP6					P F8			
O 09	09: 07: 26							5. 767	4. 515 3. 263
O 00	TP7					P F8			
O 09	09: 10: 13							6. 636	5. 370 4. 104
S 00	S8					P F8			
S 01	09: 10: 19	08/26/82	1. 000						
O 00	TP7					P F8			
O 09	09: 13: 23							6. 456	5. 175 3. 894
O 00	TP8					P F8			
O 09	09: 16: 12							6. 285	4. 991 3. 697
S 00	S9					P F8			
S 01	09: 16: 16	08/26/82	1. 000						
O 00	TP8					P F8			
O 09	09: 19: 04							7. 067	5. 787 4. 507
O 00	TP9					P F8			
O 09	09: 22: 09							6. 953	5. 668 4. 383
S 00	S10					P F8			
S 01	09: 22: 13	08/26/82	1. 000						
O 00	TP9					P F8			
O 09	09: 26: 02							6. 500	5. 252 4. 004
O 00	TP10					P F8			
O 09	09: 29: 29							6. 753	5. 497 4. 241
S 00	S11					P F8			
S 01	09: 29: 33	08/26/82	1. 000						
O 00	TP10					P F8			
O 09	09: 32: 11							6. 352	5. 063 3. 774

29 Adjustment 1834E.txt

0 00 TP11	P F8				
0 09 09: 36: 15			6. 579	5. 303	4. 027
S 00 S12	P F8				
S 01 09: 36: 20 08/26/82 1. 000					
0 00 TP11	P F8				
0 09 09: 39: 31			7. 106	5. 888	4. 670
0 00 TP12	P F8				
0 09 09: 41: 58			6. 466	5. 213	3. 960
S 00 S13	P F8				
S 01 09: 42: 03 08/26/82 1. 000					
0 00 TP12	P F8				
0 09 09: 45: 01			5. 958	4. 711	3. 464
0 00 TP13	P F8				
0 09 09: 47: 58			6. 451	5. 193	3. 935
S 00 S14	P F8				
S 01 09: 48: 03 08/26/82 1. 000					
0 00 TP13	P F8				
0 09 09: 50: 42			6. 796	5. 559	4. 322
0 00 TP14	P F8				
0 09 09: 55: 11			6. 041	4. 792	3. 543
S 00 S15	P F8				
S 01 09: 55: 16 08/26/82 1. 000					
0 00 TP14	P F8				
0 09 09: 57: 56			6. 136	4. 876	3. 616
0 00 TP15	P F8				
0 09 10: 00: 48			5. 698	4. 438	3. 178
S 00 S16	P F8				
S 01 10: 00: 54 08/26/82 1. 000					
0 00 TP15	P F8				
0 09 10: 03: 40			6. 580	5. 294	4. 008
0 00 TP16	P F8				
0 09 10: 06: 39			6. 849	5. 584	4. 319
S 00 S17	P F8				
S 01 10: 06: 44 08/26/82 1. 000					
0 00 TP16	P F8				
0 09 10: 29: 12			5. 070	3. 981	2. 892
0 00 TP17	P F8				
0 09 10: 33: 11			7. 777	6. 672	5. 567
S 00 S18	P F8				
S 01 10: 33: 15 08/26/82 1. 000					
0 00 TP17	P F8				
0 09 10: 36: 11			5. 820	4. 589	3. 358
0 00 TP18	P F8				
0 09 10: 39: 05			6. 725	5. 483	4. 241
S 00 S19	P F8				
S 01 10: 39: 10 08/26/82 1. 000					
0 00 TP18	P F8				
0 09 10: 41: 59			7. 196	5. 947	4. 698
0 00 TP19	P F8				
0 09 10: 44: 46			6. 207	4. 950	3. 693
S 00 S20	P F8				
S 01 10: 44: 50 08/26/82 1. 000					
0 00 TP19	P F8				
0 09 10: 47: 38			6. 249	5. 006	3. 763
0 00 TP20	P F8				
0 09 10: 50: 23			5. 858	4. 620	3. 382
S 00 S21	P F8				
S 01 10: 50: 31 08/26/82 1. 000					
0 00 TP20	P F8				
0 09 10: 54: 23			6. 104	4. 840	3. 576
0 00 TP21	P F8				
0 09 10: 57: 47			6. 583	5. 320	4. 057
S 00 S22	P F8				
S 01 10: 57: 51 08/26/82 1. 000					
0 00 TP21	P F8				
0 09 11: 01: 29			6. 771	5. 504	4. 237
0 00 TP22	P F8				
0 09 11: 04: 36			6. 634	5. 369	4. 104
S 00 S23	P F8				
S 01 11: 04: 42 08/26/82 1. 000					

29 Adjustment 1834E.txt

0 00	TP22			P F8			
0 09	11: 07: 50				6. 539	5. 314	4. 089
0 00	TP23			P F8			
0 09	11: 10: 43				6. 741	5. 501	4. 261
S 00	S24			P F8			
S 01	11: 10: 48	08/26/82	1. 000				
0 00	TP23			P F8			
0 09	11: 14: 03				6. 142	4. 874	3. 606
0 00	TP24			P F8			
0 09	11: 17: 14				5. 974	4. 713	3. 452
S 00	S25			P F8			
S 01	11: 17: 23	08/26/82	1. 000				
0 00	TP24			P F8			
0 09	11: 20: 05				6. 591	5. 288	3. 985
0 00	TP25			P F8			
0 09	11: 23: 08				6. 516	5. 202	3. 888
S 00	S26			P F8			
S 01	11: 23: 12	08/26/82	1. 000				
0 00	TP25			P F8			
0 09	11: 27: 12				5. 043	4. 818	4. 593
0 00	BM2			P F8 CMON-h098			
0 09	11: 28: 16				6. 763	6. 532	6. 301
S 00	S27			P F8			
S 01	12: 36: 48	08/26/82	1. 000				
0 00	BM2			P F8 CMON-h098			
0 09	12: 41: 24				7. 971	6. 707	5. 443
0 00	TP26			P F8			
0 09	12: 44: 07				6. 205	4. 948	3. 691
S 00	S28			P F8			
S 01	12: 44: 34	08/26/82	1. 000				
0 00	TP26			P F8			
0 09	12: 47: 32				6. 702	5. 440	4. 178
0 00	TP27			P F8			
0 09	12: 50: 32				6. 513	5. 242	3. 971
S 00	S29			P F8			
S 01	12: 50: 38	08/26/82	1. 000				
0 00	TP27			P F8			
0 09	12: 54: 46				4. 694	4. 114	3. 534
0 00	TP28			P F8			
0 09	12: 57: 30				5. 714	5. 031	4. 348
S 00	S30			P F8			
S 01	12: 57: 35	08/26/82	1. 000				
0 00	TP28			P F8			
0 09	12: 59: 58				6. 581	5. 304	4. 027
0 00	TP29			P F8			
0 09	13: 02: 46				6. 433	5. 139	3. 845
S 00	S31			P F8			
S 01	13: 02: 51	08/26/82	1. 000				
0 00	TP29			P F8			
0 09	13: 05: 50				6. 391	5. 114	3. 837
0 00	TP30			P F8			
0 09	13: 08: 58				6. 766	5. 480	4. 194
S 00	S32			P F8			
S 01	13: 09: 03	08/26/82	1. 000				
0 00	TP30			P F8			
0 09	13: 11: 51				6. 516	5. 256	3. 996
0 00	TP31			P F8			
0 09	13: 14: 53				6. 417	5. 155	3. 893
S 00	S33			P F8			
S 01	13: 14: 57	08/26/82	1. 000				
0 00	TP31			P F8			
0 09	13: 17: 46				6. 452	5. 178	3. 904
0 00	TP32			P F8			
0 09	13: 20: 56				6. 165	4. 908	3. 651
S 00	S34			P F8			
S 01	13: 21: 02	08/26/82	1. 000				
0 00	TP32			P F8			
0 09	13: 23: 53				6. 491	5. 538	4. 585
0 00	TP33			P F8			
0 09	13: 25: 42				5. 949	5. 068	4. 187

29 Adjustment 1834E.txt

0 00	MW1	P F8	MW-bbcwmw3a					
0 09	13: 28: 56					3. 246	2. 343	1. 440
0 00	MW2	P F8	MW-bbcwmw3b					
0 09	13: 29: 56					3. 228	2. 303	1. 378
0 00	GND1	P F8	GND					
0 09	13: 30: 26					6. 191	5. 270	4. 349
S 00	S35	P F8						
S 01	13: 30: 50	08/26/82	1. 000					
0 00	TP33	P F8						
0 09	13: 31: 29					5. 987	5. 106	4. 225
0 00	TP32	P F8						
0 09	13: 34: 50					6. 530	5. 576	4. 622
S 00	S36	P F8						
S 01	13: 35: 04	08/26/82	1. 000					
0 00	TP32	P F8						
0 09	13: 37: 31					6. 235	4. 921	3. 607
0 00	TP31	P F8						
0 09	13: 38: 28					6. 414	5. 197	3. 980
S 00	S37	P F8						
S 01	13: 38: 35	08/26/82	1. 000					
0 00	TP31	P F8						
0 09	13: 41: 02					6. 321	5. 035	3. 749
0 00	TP30	P F8						
0 09	13: 41: 50					6. 375	5. 141	3. 907
S 00	S38	P F8						
S 01	13: 41: 56	08/26/82	1. 000					
0 00	TP30	P F8						
0 09	13: 44: 26					6. 218	4. 926	3. 634
0 00	TP29	P F8						
0 09	13: 45: 20					5. 830	4. 560	3. 290
S 00	S39	P F8						
S 01	13: 45: 24	08/26/82	1. 000					
0 00	TP29	P F8						
0 09	13: 48: 06					6. 432	5. 146	3. 860
0 00	TP28	P F8						
0 09	13: 49: 12					6. 594	5. 309	4. 024
S 00	S40	P F8						
S 01	13: 49: 19	08/26/82	1. 000					
0 00	TP28	P F8						
0 09	13: 52: 08					6. 955	5. 682	4. 409
0 00	TP34	P F8						
0 09	14: 11: 46					6. 128	4. 865	3. 602
S 00	S41	P F8						
S 01	14: 11: 52	08/26/82	1. 000					
0 00	TP34	P F8						
0 09	14: 14: 37					6. 297	5. 027	3. 757
0 00	TP35	P F8						
0 09	14: 17: 19					6. 374	5. 111	3. 848
S 00	S42	P F8						
S 01	14: 17: 24	08/26/82	1. 000					
0 00	TP35	P F8						
0 09	14: 20: 27					6. 256	5. 009	3. 762
0 00	TP36	P F8						
0 09	14: 23: 32					6. 480	5. 224	3. 968
S 00	S43	P F8						
S 01	14: 23: 37	08/26/82	1. 000					
0 00	TP36	P F8						
0 09	14: 26: 39					6. 149	4. 928	3. 707
0 00	TP37	P F8						
0 09	14: 30: 10					6. 667	5. 404	4. 141
S 00	S44	P F8						
S 01	14: 30: 18	08/26/82	1. 000					
0 00	TP37	P F8						
0 09	14: 34: 15					6. 493	5. 234	3. 975
0 00	TP38	P F8						
0 09	14: 36: 49					5. 940	4. 686	3. 432
S 00	S45	P F8						
S 01	14: 36: 53	08/26/82	1. 000					
0 00	TP38	P F8						
0 09	14: 41: 07					5. 810	4. 793	3. 776

29 Adjustment 1834E.txt

0 00 TP39	P F8			
0 09 14: 43: 11		4. 679	3. 765	2. 851
S 00 S46	P F8			
S 01 14: 43: 15 08/26/82 1. 000				
0 00 TP39	P F8			
0 09 14: 46: 23		6. 614	5. 385	4. 156
0 00 TP40	P F8			
0 09 14: 49: 14		6. 276	5. 027	3. 778
S 00 S47	P F8			
S 01 14: 49: 25 08/26/82 1. 000				
0 00 TP40	P F8			
0 09 14: 52: 17		6. 339	5. 098	3. 857
0 00 TP41	P F8			
0 09 14: 54: 51		6. 191	4. 956	3. 721
S 00 S48	P F8			
S 01 14: 54: 56 08/26/82 1. 000				
0 00 TP41	P F8			
0 09 15: 00: 20		9. 352	7. 850	6. 348
0 00 TP42	P F8			
0 09 15: 05: 14		5. 467	3. 977	2. 487
S 00 S49	P F8			
S 01 15: 27: 40 08/26/82 1. 000				
0 00 TP42	P F8			
0 09 15: 30: 02		6. 368	5. 146	3. 924
0 00 TP43	P F8			
0 09 15: 32: 47		5. 752	4. 523	3. 294
S 00 S50	P F8			
S 01 15: 32: 53 08/26/82 1. 000				
0 00 TP43	P F8			
0 09 15: 36: 54		6. 468	5. 172	3. 876
0 00 TP44	P F8			
0 09 15: 40: 02		7. 447	6. 142	4. 837
S 00 S51	P F8			
S 01 15: 40: 07 08/26/82 1. 000				
0 00 TP44	P F8			
0 09 15: 42: 44		6. 445	5. 157	3. 869
0 00 TP45	P F8			
0 09 15: 45: 39		6. 926	5. 646	4. 366
S 00 S52	P F8			
S 01 15: 45: 45 08/26/82 1. 000				
0 00 TP45	P F8			
0 09 15: 48: 33		5. 770	4. 482	3. 194
0 00 TP46	P F8			
0 09 15: 51: 20		6. 753	5. 476	4. 199
S 00 S53	P F8			
S 01 15: 51: 27 08/26/82 1. 000				
0 00 TP46	P F8			
0 09 15: 54: 05		6. 305	5. 011	3. 717
0 00 TP47	P F8			
0 09 15: 57: 09		5. 405	4. 112	2. 819
S 00 S54	P F8			
S 01 15: 57: 14 08/26/82 1. 000				
0 00 TP47	P F8			
0 09 15: 59: 53		6. 698	5. 425	4. 152
0 00 TP48	P F8			
0 09 16: 02: 54		7. 543	6. 281	5. 019
S 00 S55	P F8			
S 01 16: 02: 58 08/26/82 1. 000				
0 00 TP48	P F8			
0 09 16: 05: 38		6. 132	4. 834	3. 536
0 00 TP49	P F8			
0 09 16: 09: 27		6. 010	4. 696	3. 382
S 00 S56	P F8			
S 01 16: 09: 31 08/26/82 1. 000				
0 00 TP49	P F8			
0 09 16: 12: 25		6. 416	5. 139	3. 862
0 00 TP50	P F8			
0 09 16: 15: 18		5. 722	4. 438	3. 154
S 00 S57	P F8			
S 01 16: 15: 23 08/26/82 1. 000				

29 Adjustment 1834E.txt

```

O 00 TP50          P F8
O 09 16: 18: 14   6.193  4.922  3.651
O 00 TP51          P F8
O 09 16: 21: 08   6.559  5.299  4.039
S 00 S58          P F8
S 01 16: 21: 12 08/26/82  1.000
O 00 TP51          P F8
O 09 16: 23: 59   5.046  3.766  2.486
O 00 TP52          P F8
O 09 16: 26: 58   7.430  6.190  4.950
S 00 S59          P F8
S 01 16: 27: 07 08/26/82  1.000
O 00 TP52          P F8
O 09 16: 29: 45   4.976  4.431  3.886
O 00 BM3          P F8 PIP-r724
O 09 16: 30: 51   3.967  3.525  3.083
R 00 00: 00: 00 12/31/99
R 99 TAPE OBSERVATION DATA STARTS HERE
C 00 00: 00: 00 12/31/99
C 99 DUMMY TAPE CALIBRATION TO RE-INITIALIZE COLLIMATION TO ZERO
C 01 TAPING          TAPING          10 99 100
C 03 00: 00: 00          D 0 0 0.0 90 0 0.0
C 03 00: 00: 00          D 0 0 0.0 90 0 0.0
C 03 00: 00: 00          R 180 0 0.0 270 0 0.0
C 03 00: 00: 00          R 180 0 0.0 270 0 0.0
R 00 00: 00: 00 12/31/99
R 99 TAPE OBSERVATION DATA ENDS HERE
R 00 00: 00: 00 12/31/99
R 99 TAPE TRAVERSE DATA (I. E. CHAINS) START HERE
R 00 00: 00: 00 12/31/99
R 99 TAPE TRAVERSE DATA (I. E. CHAINS) ENDS HERE
R 00 00: 00: 00 12/31/99
R 99 CHAIN DATA STARTS HERE
R 00 00: 00: 00 12/31/99
R 99 CHAIN DATA ENDS HERE
R 00 00: 00: 00 12/31/99
R 99 PREFIX DATA STARTS HERE
P 00
P 01 S59, BM3, TP52, MW2, GND1
' F2- 9||"ñT' ↑^"- €α α x*" |+- "0"¼L' ↑^"-β- |ÿ-i+jÿ-â" xL' ↑^"-
R 00 00: 00: 00 12/31/99
R 99 PREFIX DATA ENDS HERE

```

1834E. 1D

MI SCLOSURE OF MULTIPLE ELEV. DIFFERENCE MEASUREMENTS

```

STATIONS          MI SCLOSURE
TP32 - TP33          .000
TP31 - TP32          .006
TP30 - TP31          .005
TP29 - TP30          .000
TP28 - TP29          .002
END OF MI SCLOSURE REPORT

```

67 OF 117 STATIONS IDENTIFIED AS VERTICAL SIDESHOTS
 BAND IS 1 STATIONS
 LEVEL NETWORK ADJUSTMENT

NUMBER OF BENCHMARKS = 2
 NUMBER OF STATIONS = 50
 NUMBER OF MEASUREMENTS = 49
 NUMBER OF REQUIRED TERMS FOR NORMAL EQUATIONS = 99

RESULTS OF ADJUSTMENT

BENCHMARK ELEVATION RESIDUALS

STATION	INPUT ELEV.	ADJUSTED ELEV.	ERROR EST.	RESIDUAL
BM1	6.780	6.780	.000	.000 (.0)
BM3	6.850	6.850	.000	.000 (.0)

29 Adjustment 1834E.txt

BENCHMARK RMS ERROR = .000 SNOOP RMS = .0
 MAX. BENCHMARK RESIDUAL AT STATION BM1 OF .000

RESIDUALS

FROM	TO	MEASURED	RESIDUAL	EST. ERROR
BM1	TP1	-.631	-.001 (.1)	.010
TP1	TP2	.857	-.001 (.1)	.010
TP2	TP3	.035	-.001 (.1)	.010
TP3	TP4	-.428	-.001 (.1)	.010
TP4	TP5	.761	-.001 (.1)	.010
TP5	TP6	-.554	-.001 (.1)	.010
TP6	TP7	-.855	-.001 (.1)	.010
TP7	TP8	.184	-.001 (.1)	.010
TP8	TP9	.119	-.001 (.1)	.010
TP9	TP10	-.245	-.001 (.1)	.010
TP10	TP11	-.240	-.001 (.1)	.010
TP11	TP12	.675	-.001 (.1)	.010
TP12	TP13	-.482	-.001 (.1)	.010
TP13	TP14	.767	-.001 (.1)	.010
TP14	TP15	.438	-.001 (.1)	.010
TP15	TP16	-.290	-.001 (.1)	.010
TP16	TP17	-2.691	-.001 (.1)	.010
TP17	TP18	-.894	-.001 (.1)	.010
TP18	TP19	.997	-.001 (.1)	.010
TP19	TP20	.386	-.001 (.1)	.010
TP20	TP21	-.480	-.001 (.1)	.010
TP21	TP22	.135	-.001 (.1)	.010
TP22	TP23	-.187	-.001 (.1)	.010
TP23	TP24	.161	-.001 (.1)	.010
TP24	TP25	.086	-.001 (.1)	.010
TP25	BM2	-1.714	-.001 (.1)	.010
BM2	TP26	1.759	-.001 (.1)	.010
TP26	TP27	.198	-.001 (.1)	.010
TP27	TP28	-.917	-.001 (.1)	.010
TP28	TP34	.817	-.001 (.1)	.010
TP34	TP35	-.084	-.001 (.1)	.010
TP35	TP36	-.215	-.001 (.1)	.010
TP36	TP37	-.476	-.001 (.1)	.010
TP37	TP38	.548	-.001 (.1)	.010
TP38	TP39	1.028	-.001 (.1)	.010
TP39	TP40	.358	-.001 (.1)	.010
TP40	TP41	.142	-.001 (.1)	.010
TP41	TP42	3.873	-.001 (.1)	.010
TP42	TP43	.623	-.001 (.1)	.010
TP43	TP44	-.970	-.001 (.1)	.010
TP44	TP45	-.489	-.001 (.1)	.010
TP45	TP46	-.994	-.001 (.1)	.010
TP46	TP47	.899	-.001 (.1)	.010
TP47	TP48	-.856	-.001 (.1)	.010
TP48	TP49	.138	-.001 (.1)	.010
TP49	TP50	.701	-.001 (.1)	.010
TP50	TP51	-.377	-.001 (.1)	.010
TP51	TP52	-2.424	-.001 (.1)	.010
TP52	BM3	.906	-.001 (.1)	.010

ELEV. DIFF. RMS ERROR = .001 SNOOP RMS = .1
 MAX. ELEV. DIFF. RESIDUAL TP39 - TP40 OF .001

95% CONFIDENCE F STATISTIC STANDARD ERROR MULTIPLIER FOR 1 D.F. IS 20.00

STATION	ADJUSTED ELEV.	STANDARD ERROR
BM1	6.780	.001
TP1	6.148	.079
TP2	7.005	.111

29 Adjustment 1834E.txt

TP3	7.039	.134
TP4	6.611	.153
TP5	7.371	.170
TP6	6.817	.184
TP7	5.961	.196
TP8	6.144	.207
TP9	6.263	.217
TP10	6.017	.226
TP11	5.777	.234
TP12	6.451	.241
TP13	5.969	.247
TP14	6.735	.253
TP15	7.172	.258
TP16	6.882	.263
TP17	4.190	.267
TP18	3.296	.270
TP19	4.292	.273
TP20	4.678	.275
TP21	4.197	.277
TP22	4.331	.279
TP23	4.144	.279
TP24	4.304	.280
TP25	4.390	.280
BM2	2.675	.279
TP26	4.434	.279
TP27	4.631	.277
TP28	3.713	.275
TP34	4.530	.273
TP35	4.445	.270
TP36	4.230	.267
TP37	3.753	.263
TP38	4.301	.258
TP39	5.328	.253
TP40	5.685	.247
TP41	5.827	.241
TP42	9.699	.234
TP43	10.322	.226
TP44	9.351	.217
TP45	8.862	.207
TP46	7.867	.196
TP47	8.765	.184
TP48	7.909	.170
TP49	8.046	.153
TP50	8.747	.134
TP51	8.369	.111
TP52	5.945	.079
BM3	6.850	.001

STANDARD ERROR OF UNIT WEIGHT IS .400
 WITH 1 DEGREES OF FREEDOM

CHI SQUARED TEST ON ANALYSIS
 .031 < .400 < 1.960
 (LOW) (HIGH)
 PASSES AT THE 5 % SIGNIFICANCE LEVEL

1834E.CHL
 PROJECT NAME IS 1834E

ELEVATION CLOSURE REPORT
 SUM OF DISTANCES ALONG SURVEY IS 23218.900
 CLOSURE IN ELEVATION (Z) = -.028
 CLOSURE PER STATION = -.001
 PRECISION = 1 / 829246.

STATION	ELEVATION (Z)
BM1	6.780
TP1	6.148
TP2	7.005
TP3	7.039

29 Adjustment 1834E.txt

TP4	6.611
TP5	7.371
TP6	6.817
TP7	5.961
TP8	6.144
TP9	6.263
TP10	6.017
TP11	5.777
TP12	6.451
TP13	5.969
TP14	6.735
TP15	7.172
TP16	6.882
TP17	4.190
TP18	3.296
TP19	4.292
TP20	4.678
TP21	4.197
TP22	4.331
TP23	4.144
TP24	4.304
TP25	4.390
BM2	2.675
TP26	4.434
TP27	4.631
TP28	3.713
TP34	4.530
TP35	4.445
TP36	4.230
TP37	3.753
TP38	4.301
TP39	5.328
TP40	5.685
TP41	5.827
TP42	9.699
TP43	10.322
TP44	9.351
TP45	8.862
TP46	7.867
TP47	8.765
TP48	7.909
TP49	8.046
TP50	8.747
TP51	8.369
TP52	5.945
BM3	6.850

TOTAL LENGTH OF EVALUATED SURVEY DISTANCE = 4.398 MILES
 OVERALL PRECISION = 1 / 829246.

1834E. CTL

G 00	1834E			
G 01	BM1	BM1	P F8 IRC R-725	0901 83F29
G 02			6.7800	.0001
G 01	BM3	BM3	P F8 IRC R-724	0901 83F29
G 02			6.8500	.0001

1834E. XYZ

G 00	1834E. XYZ			
G 01	BM1		P F8 CMON-R725	0901 83F29
G 02			6.780	.001
G 01	TP1		P F8	0901 83F29
G 02			6.148	.079
G 01	TP2		P F8	0901 83F29
G 02			7.005	.111
G 01	TP3		P F8	0901 83F29
G 02			7.039	.134

29 Adjustment 1834E.txt

G 01	TP4	P F8		0901 83F29
G 02			6. 611	. 153
G 01	TP5	P F8		0901 83F29
G 02			7. 371	. 170
G 01	TP6	P F8		0901 83F29
G 02			6. 817	. 184
G 01	TP7	P F8		0901 83F29
G 02			5. 961	. 196
G 01	TP8	P F8		0901 83F29
G 02			6. 144	. 207
G 01	TP9	P F8		0901 83F29
G 02			6. 263	. 217
G 01	TP10	P F8		0901 83F29
G 02			6. 017	. 226
G 01	TP11	P F8		0901 83F29
G 02			5. 777	. 234
G 01	TP12	P F8		0901 83F29
G 02			6. 451	. 241
G 01	TP13	P F8		0901 83F29
G 02			5. 969	. 247
G 01	TP14	P F8		0901 83F29
G 02			6. 735	. 253
G 01	TP15	P F8		0901 83F29
G 02			7. 172	. 258
G 01	TP16	P F8		0901 83F29
G 02			6. 882	. 263
G 01	TP17	P F8		0901 83F29
G 02			4. 190	. 267
G 01	TP18	P F8		0901 83F29
G 02			3. 296	. 270
G 01	TP19	P F8		0901 83F29
G 02			4. 292	. 273
G 01	TP20	P F8		0901 83F29
G 02			4. 678	. 275
G 01	TP21	P F8		0901 83F29
G 02			4. 197	. 277
G 01	TP22	P F8		0901 83F29
G 02			4. 331	. 279
G 01	TP23	P F8		0901 83F29
G 02			4. 144	. 279
G 01	TP24	P F8		0901 83F29
G 02			4. 304	. 280
G 01	TP25	P F8		0901 83F29
G 02			4. 390	. 280
G 01	BM2	P F8	CMON-h098	0901 83F29
G 02			2. 675	. 279
G 01	TP26	P F8		0901 83F29
G 02			4. 434	. 279
G 01	TP27	P F8		0901 83F29
G 02			4. 631	. 277
G 01	TP28	P F8		0901 83F29
G 02			3. 713	. 275
G 01	TP29	P F8		0901 83F29
G 02			3. 877	
G 01	TP30	P F8		0901 83F29
G 02			3. 511	
G 01	TP31	P F8		0901 83F29
G 02			3. 615	
G 01	TP32	P F8		0901 83F29
G 02			3. 888	
G 01	TP33	P F8		0901 83F29
G 02			4. 358	
G 01	MW1	P F8	MW-bbcwmw3a GW2	0901 83F29
G 02			7. 083	
G 01	MW2	P F8	MW-bbcwmw3b GW1	0901 83F29
G 02			7. 123	
G 01	GND1	P F8	GND	0901 83F29
G 02			4. 156	
G 01	TP34	P F8		0901 83F29
G 02			4. 530	. 273

	29 Adjustment 1834E.txt	
G 01 TP35	P F8	0901 83F29
G 02	4. 445	. 270
G 01 TP36	P F8	0901 83F29
G 02	4. 230	. 267
G 01 TP37	P F8	0901 83F29
G 02	3. 753	. 263
G 01 TP38	P F8	0901 83F29
G 02	4. 301	. 258
G 01 TP39	P F8	0901 83F29
G 02	5. 328	. 253
G 01 TP40	P F8	0901 83F29
G 02	5. 685	. 247
G 01 TP41	P F8	0901 83F29
G 02	5. 827	. 241
G 01 TP42	P F8	0901 83F29
G 02	9. 699	. 234
G 01 TP43	P F8	0901 83F29
G 02	10. 322	. 226
G 01 TP44	P F8	0901 83F29
G 02	9. 351	. 217
G 01 TP45	P F8	0901 83F29
G 02	8. 862	. 207
G 01 TP46	P F8	0901 83F29
G 02	7. 867	. 196
G 01 TP47	P F8	0901 83F29
G 02	8. 765	. 184
G 01 TP48	P F8	0901 83F29
G 02	7. 909	. 170
G 01 TP49	P F8	0901 83F29
G 02	8. 046	. 153
G 01 TP50	P F8	0901 83F29
G 02	8. 747	. 134
G 01 TP51	P F8	0901 83F29
G 02	8. 369	. 111
G 01 TP52	P F8	0901 83F29
G 02	5. 945	. 079
G 01 BM3	P F8 PIP-r724	0901 83F29
G 02	6. 850	. 001

88 Adjustment 1834FM.txt

1834FM. OBS

Code	Time	Date	Rate	Unit	Location	Value 1	Value 2	Value 3
H 00	12:50:20	11/15/95			ENGLISH			2.55
H 99	ELEV RUN TASK#5 BISCAYNE BAY WELLS							
C 00	12:52:47	11/15/95	90	30.0	000001 DF CC NL			
C 01	WILD	NA2000						100
C 00	12:52:56	11/15/95	90	30.0	000001 DF CC NL			
C 01	WILD	NA2000		90273				100
S 00	S1				P G8			
S 01	12:54:03	11/15/95	1.000					
O 00	BM1				P F8 NL-TP10			
O 09	13:09:23					5.656	4.248	2.840
O 00	TP1				P F8 NL			
O 09	13:13:30					9.268	7.842	6.416
S 00	S2				P G8			
S 01	13:13:35	11/15/95	1.000					
O 00	TP1				P F8 NL			
O 09	13:16:09					3.830	2.686	1.542
O 00	TP2				P F8 NL			
O 09	13:18:23					6.799	5.419	4.039
S 00	S3				P G8			
S 01	13:18:28	11/15/95	1.000					
O 00	TP2				P F8 NL			
O 09	13:23:22					5.537	4.782	4.027
O 00	TP3				P F8 NL			
O 09	13:25:02					5.285	4.699	4.113
S 00	S4				P G8			
S 01	13:25:10	11/15/95	1.000					
O 00	TP3				P F8 NL			
O 09	13:28:47					6.228	4.988	3.748
O 00	TP4				P F8 NL			
O 09	13:30:40					5.595	4.673	3.751
S 00	S5				P G8			
S 01	13:30:46	11/15/95	1.000					
O 00	TP4				P F8 NL			
O 09	13:34:15					5.281	3.859	2.437
O 00	TP5				P F8 NL			
O 09	13:37:37					5.902	4.824	3.746
S 00	S6				P G8			
S 01	13:37:41	11/15/95	1.000					
O 00	TP5				P F8 NL			
O 09	13:40:03					5.852	4.728	3.604
O 00	TP6				P F8 NL			
O 09	13:42:23					6.305	4.965	3.625
S 00	S7				P G8			
S 01	13:42:27	11/15/95	1.000					
O 00	TP6				P F8 NL			
O 09	13:45:59					5.079	4.611	4.143
O 00	MW1				P F8 MW-2			
O 99	S. WESTERLY WELL N. SIDE OF TOP OF OUTER CASING							
O 09	14:03:44					4.761	4.232	3.703
O 00	MW2				P F8 MW-2			
O 99	S. WESTERLY WELL-N. SIDE OF TOP OF 2" PVC WELL							
O 09	14:02:33					4.977	4.448	3.919
S 00	S8				P G8			
S 01	14:05:15	11/15/95	1.000					
O 00	MW2				P F8 MW-4			
O 99	S. WESTERLY WELL-N. SIDE OF TOP OF 2" PVC WELL							
O 09	14:06:21					4.944	4.412	3.880
O 00	MW3				P F8 MW-4			
O 99	N. EASTERLY WELL N. SIDE OF TOP OF OUTER CASING							
O 09	14:09:09					4.764	4.199	3.634
O 00	MW4				P F8 MW			
O 99	N. EASTERLY WELL N. SIDE OF TOP OF 2" PVC WELL							
O 09	14:11:17					4.905	4.342	3.779
S 00	S9				P G8			
S 01	14:14:26	11/15/95	1.000					
O 00	MW4				P F8 MW			
O 99	N. EASTERLY WELL N. SIDE OF TOP OF 2" PVC WELL							
O 09	14:15:15					4.873	4.308	3.743
O 00	TP7				P F8 TP#6 BEG			

88 Adjustment 1834FM.txt

0 09 14: 25: 36			5.002	4.537	4.072
S 00 S10	P G8				
S 01 14: 25: 42 11/15/95 1.000					
0 00 TP7	P F8 TP#6 BEB				
0 09 14: 28: 24			6.195	4.767	3.339
0 00 FTP1	P F8 NL-TP#8-4.416 TP#5 BEG				
0 09 14: 30: 14			5.567	4.531	3.495
S 00 S1	P G1				
S 01 08: 40: 47 11/16/95 1.000					
0 00 FTP1	P F8 NL-TP#8-4.416 TP#5 BEG				
0 99 BURGER KING CONT. FROM SEG M.					
0 09 08: 48: 27			6.059	5.047	4.035
0 00 FTP2	P F8 NL				
0 09 08: 50: 42			5.575	4.069	2.563
S 00 S2	P G1				
S 01 08: 50: 59 11/16/95 1.000					
0 00 FTP2	P F8 NL				
0 09 08: 55: 38			5.436	4.385	3.334
0 00 FTP3	P F8 NL				
0 09 08: 57: 52			5.804	4.701	3.598
S 00 S3	P G1				
S 01 08: 58: 09 11/16/95 1.000					
0 00 FTP3	P F8 NL				
0 09 09: 02: 48			4.827	4.055	3.283
0 00 FTP4	P F8 NL				
0 09 09: 04: 19			4.718	4.140	3.562
S 00 S4	P G1				
S 01 09: 04: 33 11/16/95 1.000					
0 00 FTP4	P F8 NL				
0 09 09: 10: 20			7.108	5.817	4.526
0 00 FTP5	P F8 NL				
0 09 09: 12: 40			4.320	3.088	1.856
S 00 S5	P G1				
S 01 09: 13: 07 11/16/95 1.000					
0 00 FTP5	P F8 NL				
0 09 09: 19: 38			9.190	7.652	6.114
0 00 FTP6	P F8 NL-TP#9				
0 99 TP#9 SAM HALLS LEVEL RUN DOWN OLD CUTLER RD.					
0 09 09: 24: 15			5.856	4.542	3.228
0 09 04: 57: 35			5.092	3.768	2.444
R 00 00: 00: 00 12/31/99					
R 99 TAPE OBSERVATION DATA STARTS HERE					
C 00 00: 00: 00 12/31/99					
C 99 DUMMY TAPE CALIBRATION TO RE-INITIALIZE COLLIMATION TO ZERO					
C 01 TAPING TAPING		10 99 100			
C 03 00: 00: 00	D	0 0 0.0 90 0 0.0			
C 03 00: 00: 00	D	0 0 0.0 90 0 0.0			
C 03 00: 00: 00	R	180 0 0.0 270 0 0.0			
C 03 00: 00: 00	R	180 0 0.0 270 0 0.0			
R 00 00: 00: 00 12/31/99					
R 99 TAPE OBSERVATION DATA ENDS HERE					
R 00 00: 00: 00 12/31/99					
R 99 TAPE TRAVERSE DATA (I. E. CHAINS) START HERE					
R 00 00: 00: 00 12/31/99					
R 99 TAPE TRAVERSE DATA (I. E. CHAINS) ENDS HERE					
R 00 00: 00: 00 12/31/99					
R 99 CHAIN DATA STARTS HERE					
R 00 00: 00: 00 12/31/99					
R 99 CHAIN DATA ENDS HERE					
R 00 00: 00: 00 12/31/99					
R 99 PREFIX DATA STARTS HERE					
P 00					
P 01 S13, BM1, TP11, MW4					
' F2- 3 "ñT' ¡^"- €α α x*ª→-+ "Ò"¼L' ¡^"-ß- ¡ÿ-¡jÿ-â" xL' ¡^"-					
R 00 00: 00: 00 12/31/99					
R 99 PREFIX DATA ENDS HERE					

STATIONS MISCLOSURE
 END OF MISCLOSURE REPORT

12 OF 28 STATIONS IDENTIFIED AS VERTICAL SIDESHOTS
 BAND IS 1 STATIONS
 LEVEL NETWORK ADJUSTMENT

NUMBER OF BENCHMARKS = 2
 NUMBER OF STATIONS = 16
 NUMBER OF MEASUREMENTS = 15
 NUMBER OF REQUIRED TERMS FOR NORMAL EQUATIONS = 31

RESULTS OF ADJUSTMENT

BENCHMARK ELEVATION RESIDUALS

STATION	INPUT ELEV.	ADJUSTED ELEV.	ERROR EST.	RESIDUAL
BM1	11.307	11.307	.000	.000 (.0)
FTP6	10.828	10.828	.000	.000 (.0)

BENCHMARK RMS ERROR = .000 SNOOP RMS = .0
 MAX. BENCHMARK RESIDUAL AT STATION BM1 OF .000

RESIDUALS

FROM	TO	MEASURED	RESIDUAL	EST. ERROR
BM1	TP1	-3.594	.000 (.0)	.010
TP1	TP2	-2.733	.000 (.0)	.010
TP2	TP3	.083	.000 (.0)	.010
TP3	TP4	.315	.000 (.0)	.010
TP4	TP5	-.965	.000 (.0)	.010
TP5	TP6	-.237	.000 (.0)	.010
TP6	MW2	.163	.000 (.0)	.010
MW2	MW4	.070	.000 (.0)	.010
MW4	TP7	-.229	.000 (.0)	.010
TP7	FTP1	.236	.000 (.0)	.010
FTP1	FTP2	.978	.000 (.0)	.010
FTP2	FTP3	-.316	.000 (.0)	.010
FTP3	FTP4	-.085	.000 (.0)	.010
FTP4	FTP5	2.729	.000 (.0)	.010
FTP5	FTP6	3.110	.000 (.0)	.010

ELEV. DIFF. RMS ERROR = .000 SNOOP RMS = .0
 MAX. ELEV. DIFF. RESIDUAL FTP5 - OF FTP6 OF .000

95% CONFIDENCE F STATISTIC STANDARD ERROR MULTIPLIER FOR 1 D.F. IS 20.00

STATION	ADJUSTED ELEV.	STANDARD ERROR
BM1	11.307	.000
TP1	7.713	.020
TP2	4.979	.027
TP3	5.062	.032
TP4	5.377	.035
TP5	4.412	.038
TP6	4.174	.039
MW2	4.337	.040
MW4	4.407	.040
TP7	4.178	.039
FTP1	4.413	.038
FTP2	5.391	.035
FTP3	5.075	.032
FTP4	4.990	.027
FTP5	7.718	.020
FTP6	10.828	.000

STANDARD ERROR OF UNIT WEIGHT IS .103
 WITH 1 DEGREES OF FREEDOM

CHI SQUARED TEST ON ANALYSIS
 .031 < .103 < 1.960
 (LOW) (HIGH)
 PASSES AT THE 5 % SIGNIFICANCE LEVEL

1834FM. CHL
 PROJECT NAME IS 1834M

ELEVATION CLOSURE REPORT
 SUM OF DISTANCES ALONG SURVEY IS 6177.900
 CLOSURE IN ELEVATION (Z) = -.004
 CLOSURE PER STATION = .000
 PRECISION = 1 / 1544475.

STATION	ELEVATION (Z)
BM1	11.307
TP1	7.713
TP2	4.979
TP3	5.062
TP4	5.377
TP5	4.412
TP6	4.174
MW2	4.337
MW4	4.407
TP7	4.178
FTP1	4.413
FTP2	5.391
FTP3	5.075
FTP4	4.990
FTP5	7.718
FTP6	10.828

TOTAL LENGTH OF EVALUATED SURVEY DISTANCE = 1.170 MILES
 OVERALL PRECISION = 1 / 1544475.

1834FM. CTL

G 00	1834M			
G 01	BM1	TP10	P F8 IRC TP10 SEG B	0901 83F88
G 02			11.3070	.0001
G 01	FTP6	FTP6	P F8 IRC TP9 SEG C	0901 83F88
G 02			10.8280	.0001
GD01	FTP6	FTP6	P F8 IRC TP5 SEG B	0901 83F88
GD02			4.7430	.0001

1834FM. XYZ

G 00	1834FM. XYZ			
G 01	BM1		P F8 NL-TP10	0901 83F88
G 02			11.307	.000
G 01	TP1		P F8 NL	0901 83F88
G 02			7.713	.020
G 01	TP2		P F8 NL	0901 83F88
G 02			4.979	.027
G 01	TP3		P F8 NL	0901 83F88
G 02			5.062	.032
G 01	TP4		P F8 NL	0901 83F88
G 02			5.377	.035
G 01	TP5		P F8 NL	0901 83F88
G 02			4.412	.038
G 01	TP6		P F8 NL	0901 83F88
G 02			4.174	.039
G 01	MW1		P F8 MW-2	0901 83F88
G 99	S. WESTERLY WELL N. SIDE OF TOP OF OUTER CASING			
G 02			4.553	
G 01	MW2		P F8 MW-2	0901 83F88

88 Adjustment 1834FM.txt

G 99	S. WESTERLY WELL-N. SIDE OF TOP OF 2" PVC WELL		
G 02		4. 337	. 040
G 01	MW3	P F8 MW-4	0901 83F88
G 99	N. EASTERLY WELL N. SIDE OF TOP OF OUTER CASING		
G 02		4. 550	
G 01	MW4	P F8 MW	0901 83F88
G 99	N. EASTERLY WELL N. SIDE OF TOP OF 2" PVC WELL		
G 02		4. 407	. 040
G 01	TP7	P F8 TP#6 BEG	0901 83F88
G 02		4. 178	. 039
G 01	FTP1	P F8 NL-TP#8-4. 416 TP#5 BEG	0901 83F88
G 99	BURGER KING CONT. FROM SEG M.		
G 02		4. 413	. 038
G 01	FTP2	P F8 NL	0901 83F88
G 02		5. 391	. 035
G 01	FTP3	P F8 NL	0901 83F88
G 02		5. 075	. 032
G 01	FTP4	P F8 NL	0901 83F88
G 02		4. 990	. 027
G 01	FTP5	P F8 NL	0901 83F88
G 02		7. 718	. 020
G 01	FTP6	P F8 NL-TP#9	0901 83F88
G 99	TP#9 SAM HALLS LEVEL RUN DOWN OLD CUTLER RD.		
G 02		10. 828	. 000

29Adjustment 1834FM.txt

1834FM. OBS

Time	Date	Rate	Code	Location	Value 1	Value 2	Value 3
H 00 1834M	12: 50: 20 11/15/95	12: 50: 20 11/15/95	ENGLISH		2.55		
H 99 ELEV RUN	TASK#5 BISCAYNE BAY WELLS						
C 00 12: 52: 47	11/15/95	90 30.0	000001 DF	CC NL			
C 01 WILD	NA2000			100			
C 00 12: 52: 56	11/15/95	90 30.0	000001 DF	CC NL			
C 01 WILD	NA2000	90273		100			
S 00 S1			P G8				
S 01 12: 54: 03	11/15/95	1.000					
O 00 BM1			P F8 NL-TP10				
O 09 13: 09: 23					5.656	4.248	2.840
O 00 TP1			P F8 NL				
O 09 13: 13: 30					9.268	7.842	6.416
S 00 S2			P G8				
S 01 13: 13: 35	11/15/95	1.000					
O 00 TP1			P F8 NL				
O 09 13: 16: 09					3.830	2.686	1.542
O 00 TP2			P F8 NL				
O 09 13: 18: 23					6.799	5.419	4.039
S 00 S3			P G8				
S 01 13: 18: 28	11/15/95	1.000					
O 00 TP2			P F8 NL				
O 09 13: 23: 22					5.537	4.782	4.027
O 00 TP3			P F8 NL				
O 09 13: 25: 02					5.285	4.699	4.113
S 00 S4			P G8				
S 01 13: 25: 10	11/15/95	1.000					
O 00 TP3			P F8 NL				
O 09 13: 28: 47					6.228	4.988	3.748
O 00 TP4			P F8 NL				
O 09 13: 30: 40					5.595	4.673	3.751
S 00 S5			P G8				
S 01 13: 30: 46	11/15/95	1.000					
O 00 TP4			P F8 NL				
O 09 13: 34: 15					5.281	3.859	2.437
O 00 TP5			P F8 NL				
O 09 13: 37: 37					5.902	4.824	3.746
S 00 S6			P G8				
S 01 13: 37: 41	11/15/95	1.000					
O 00 TP5			P F8 NL				
O 09 13: 40: 03					5.852	4.728	3.604
O 00 TP6			P F8 NL				
O 09 13: 42: 23					6.305	4.965	3.625
S 00 S7			P G8				
S 01 13: 42: 27	11/15/95	1.000					
O 00 TP6			P F8 NL				
O 09 13: 45: 59					5.079	4.611	4.143
O 00 MW1			P F8 MW-2				
O 99 S. WESTERLY WELL N. SIDE OF TOP OF OUTER CASING							
O 09 14: 03: 44					4.761	4.232	3.703
O 00 MW2			P F8 MW-2				
O 99 S. WESTERLY WELL-N. SIDE OF TOP OF 2" PVC WELL							
O 09 14: 02: 33					4.977	4.448	3.919
S 00 S8			P G8				
S 01 14: 05: 15	11/15/95	1.000					
O 00 MW2			P F8 MW-4				
O 99 S. WESTERLY WELL-N. SIDE OF TOP OF 2" PVC WELL							
O 09 14: 06: 21					4.944	4.412	3.880
O 00 MW3			P F8 MW-4				
O 99 N. EASTERLY WELL N. SIDE OF TOP OF OUTER CASING							
O 09 14: 09: 09					4.764	4.199	3.634
O 00 MW4			P F8 MW				
O 99 N. EASTERLY WELL N. SIDE OF TOP OF 2" PVC WELL							
O 09 14: 11: 17					4.905	4.342	3.779
S 00 S9			P G8				
S 01 14: 14: 26	11/15/95	1.000					
O 00 MW4			P F8 MW				
O 99 N. EASTERLY WELL N. SIDE OF TOP OF 2" PVC WELL							
O 09 14: 15: 15					4.873	4.308	3.743
O 00 TP7			P F8 TP#6 BEG				

29Adjustment 1834FM.txt

0 09 14: 25: 36			5.002	4.537	4.072
S 00 S10	P G8				
S 01 14: 25: 42 11/15/95 1.000					
0 00 TP7	P F8 TP#6 BEB				
0 09 14: 28: 24			6.195	4.767	3.339
0 00 FTP1	P F8 NL-TP#8-4.416 TP#5 BEG				
0 09 14: 30: 14			5.567	4.531	3.495
S 00 S1	P G1				
S 01 08: 40: 47 11/16/95 1.000					
0 00 FTP1	P F8 NL-TP#8-4.416 TP#5 BEG				
0 99 BURGER KING CONT. FROM SEG M.					
0 09 08: 48: 27			6.059	5.047	4.035
0 00 FTP2	P F8 NL				
0 09 08: 50: 42			5.575	4.069	2.563
S 00 S2	P G1				
S 01 08: 50: 59 11/16/95 1.000					
0 00 FTP2	P F8 NL				
0 09 08: 55: 38			5.436	4.385	3.334
0 00 FTP3	P F8 NL				
0 09 08: 57: 52			5.804	4.701	3.598
S 00 S3	P G1				
S 01 08: 58: 09 11/16/95 1.000					
0 00 FTP3	P F8 NL				
0 09 09: 02: 48			4.827	4.055	3.283
0 00 FTP4	P F8 NL				
0 09 09: 04: 19			4.718	4.140	3.562
S 00 S4	P G1				
S 01 09: 04: 33 11/16/95 1.000					
0 00 FTP4	P F8 NL				
0 09 09: 10: 20			7.108	5.817	4.526
0 00 FTP5	P F8 NL				
0 09 09: 12: 40			4.320	3.088	1.856
S 00 S5	P G1				
S 01 09: 13: 07 11/16/95 1.000					
0 00 FTP5	P F8 NL				
0 09 09: 19: 38			9.190	7.652	6.114
0 00 FTP6	P F8 NL-TP#9				
0 99 TP#9 SAM HALLS LEVEL RUN DOWN OLD CUTLER RD.					
0 09 09: 24: 15			5.856	4.542	3.228
0 09 04: 57: 35			5.092	3.768	2.444
R 00 00: 00: 00 12/31/99					
R 99 TAPE OBSERVATION DATA STARTS HERE					
C 00 00: 00: 00 12/31/99					
C 99 DUMMY TAPE CALIBRATION TO RE-INITIALIZE COLLIMATION TO ZERO					
C 01 TAPING TAPING		10 99 100			
C 03 00: 00: 00	D	0 0 0.0 90 0 0.0			
C 03 00: 00: 00	D	0 0 0.0 90 0 0.0			
C 03 00: 00: 00	R	180 0 0.0 270 0 0.0			
C 03 00: 00: 00	R	180 0 0.0 270 0 0.0			
R 00 00: 00: 00 12/31/99					
R 99 TAPE OBSERVATION DATA ENDS HERE					
R 00 00: 00: 00 12/31/99					
R 99 TAPE TRAVERSE DATA (I. E. CHAINS) START HERE					
R 00 00: 00: 00 12/31/99					
R 99 TAPE TRAVERSE DATA (I. E. CHAINS) ENDS HERE					
R 00 00: 00: 00 12/31/99					
R 99 CHAIN DATA STARTS HERE					
R 00 00: 00: 00 12/31/99					
R 99 CHAIN DATA ENDS HERE					
R 00 00: 00: 00 12/31/99					
R 99 PREFIX DATA STARTS HERE					
P 00					
P 01 S13, BM1, TP11, MW4					
' F2- 3 "ñT' ¡^"- €α α x*â→+		" 0"¼L' ¡^"-ß- ç-ï jç-â" xL' ¡^"-			
R 00 00: 00: 00 12/31/99					
R 99 PREFIX DATA ENDS HERE					

STATIONS MISCLOSURE
 END OF MISCLOSURE REPORT

12 OF 28 STATIONS IDENTIFIED AS VERTICAL SIDESHOTS
 BAND IS 1 STATIONS
 LEVEL NETWORK ADJUSTMENT

NUMBER OF BENCHMARKS = 2
 NUMBER OF STATIONS = 16
 NUMBER OF MEASUREMENTS = 15
 NUMBER OF REQUIRED TERMS FOR NORMAL EQUATIONS = 31

RESULTS OF ADJUSTMENT

BENCHMARK ELEVATION RESIDUALS

STATION	INPUT ELEV.	ADJUSTED ELEV.	ERROR EST.	RESIDUAL
BM1	12.827	12.827	.000	.000 (.0)
FTP6	12.348	12.348	.000	.000 (.0)

BENCHMARK RMS ERROR = .000 SNOOP RMS = .0
 MAX. BENCHMARK RESIDUAL AT STATION BM1 OF .000

RESIDUALS

FROM	TO	MEASURED	RESIDUAL	EST. ERROR
BM1	TP1	-3.594	.000 (.0)	.010
TP1	TP2	-2.733	.000 (.0)	.010
TP2	TP3	.083	.000 (.0)	.010
TP3	TP4	.315	.000 (.0)	.010
TP4	TP5	-.965	.000 (.0)	.010
TP5	TP6	-.237	.000 (.0)	.010
TP6	MW2	.163	.000 (.0)	.010
MW2	MW4	.070	.000 (.0)	.010
MW4	TP7	-.229	.000 (.0)	.010
TP7	FTP1	.236	.000 (.0)	.010
FTP1	FTP2	.978	.000 (.0)	.010
FTP2	FTP3	-.316	.000 (.0)	.010
FTP3	FTP4	-.085	.000 (.0)	.010
FTP4	FTP5	2.729	.000 (.0)	.010
FTP5	FTP6	3.110	.000 (.0)	.010

ELEV. DIFF. RMS ERROR = .000 SNOOP RMS = .0
 MAX. ELEV. DIFF. RESIDUAL FTP5 - OF FTP6 OF .000

95% CONFIDENCE F STATISTIC STANDARD ERROR MULTIPLIER FOR 1 D.F. IS 20.00

STATION	ADJUSTED ELEV.	STANDARD ERROR
BM1	12.827	.000
TP1	9.233	.020
TP2	6.499	.027
TP3	6.582	.032
TP4	6.897	.035
TP5	5.932	.038
TP6	5.694	.039
MW2	5.857	.040
MW4	5.927	.040
TP7	5.698	.039
FTP1	5.933	.038
FTP2	6.911	.035
FTP3	6.595	.032
FTP4	6.510	.027
FTP5	9.238	.020
FTP6	12.348	.000

STANDARD ERROR OF UNIT WEIGHT IS .103
 WITH 1 DEGREES OF FREEDOM

CHI SQUARED TEST ON ANALYSIS
 .031 < .103 < 1.960
 (LOW) (HIGH)
 PASSES AT THE 5 % SIGNIFICANCE LEVEL

1834FM. CHL
 PROJECT NAME IS 1834FM

ELEVATION CLOSURE REPORT
 SUM OF DISTANCES ALONG SURVEY IS 6177.900
 CLOSURE IN ELEVATION (Z) = -.004
 CLOSURE PER STATION = .000
 PRECISION = 1 / 1544475.

STATION	ELEVATION (Z)
BM1	12.827
TP1	9.233
TP2	6.499
TP3	6.582
TP4	6.897
TP5	5.932
TP6	5.694
MW2	5.857
MW4	5.927
TP7	5.698
FTP1	5.933
FTP2	6.911
FTP3	6.595
FTP4	6.510
FTP5	9.238
FTP6	12.348

TOTAL LENGTH OF EVALUATED SURVEY DISTANCE = 1.170 MILES
 OVERALL PRECISION = 1 / 1544475.

1834FM. CTL
 G 00 1834FM
 G 01 BM1 TP10 P F8 IRC TP10 FB682 P6 0901 83F29
 G 02 12.8270 .0001
 G 01 FTP6 FTP6 P F8 IRC TP9 FB682 P6 0901 83F29
 G 02 12.3480 .0001
 G 99 IT SEEMS THAT WE HAVE 2 FB WITH THE SAME #682

1834FM. XYZ
 G 00 1834FM. XYZ
 G 01 BM1 P F8 NL-TP10 0901 83F29
 G 02 12.827 .000
 G 01 TP1 P F8 NL 0901 83F29
 G 02 9.233 .020
 G 01 TP2 P F8 NL 0901 83F29
 G 02 6.499 .027
 G 01 TP3 P F8 NL 0901 83F29
 G 02 6.582 .032
 G 01 TP4 P F8 NL 0901 83F29
 G 02 6.897 .035
 G 01 TP5 P F8 NL 0901 83F29
 G 02 5.932 .038
 G 01 TP6 P F8 NL 0901 83F29
 G 02 5.694 .039
 G 01 MW1 P F8 MW-2 0901 83F29
 G 99 S. WESTERLY WELL N. SIDE OF TOP OF OUTER CASING
 G 02 6.073
 G 01 MW2 P F8 MW-2 0901 83F29
 G 99 S. WESTERLY WELL-N. SIDE OF TOP OF 2" PVC WELL

29Adjustment 1834FM.txt

G 02		5.857	GW2	.040
G 01	MW3	P F8	MW-4	0901 83F29
G 99	N. EASTERLY WELL N. SIDE OF TOP OF OUTER CASING			
G 02		6.070		
G 01	MW4	P F8	MW	0901 83F29
G 99	N. EASTERLY WELL N. SIDE OF TOP OF 2" PVC WELL			
G 02		5.927	GW1	.040
G 01	TP7	P F8	TP#6 BEG	0901 83F29
G 02		5.698		.039
G 01	FTP1	P F8	NL-TP#8-4.416 TP#5 BEG	0901 83F29
G 99	BURGER KING CONT. FROM SEG M.			
G 02		5.933		.038
G 01	FTP2	P F8	NL	0901 83F29
G 02		6.911		.035
G 01	FTP3	P F8	NL	0901 83F29
G 02		6.595		.032
G 01	FTP4	P F8	NL	0901 83F29
G 02		6.510		.027
G 01	FTP5	P F8	NL	0901 83F29
G 02		9.238		.020
G 01	FTP6	P F8	NL-TP#9	0901 83F29
G 99	TP#9 SAM HALLS LEVEL RUN DOWN OLD CUTLER RD.			
G 02		12.348		.000

88 Adjustment 1834G.txt

1834G. OBS										
H 00	1834G					10: 11: 38	11/16/95	10: 11: 38	11/16/95	ENGLISH 2.55
H 99	BISCAYNE BAY WELLS									
C 00	11: 19: 04	11/16/95	90	30.0	000001	DF	TB	NL		
C 01	WILD	NA2000	90273					100		
C 13	11: 25: 43	3.79	4.18	4.61	5.00					
S 00	S1					P	G1			
S 01	11: 26: 39	11/16/95	1.000							
SM00	S1					P	F8			
SM01	11: 26: 02	11/16/95	1.000							
O 00	GBM1					P	F8	CMON-DCBM-R724		
O 09	11: 31: 09								6.885	5.800 4.715
O 00	GTP1					P	F8	NL-60D		
O 09	11: 33: 09								5.619	4.478 3.337
S 00	S2					P	G1			
S 01	11: 33: 22	11/16/95	1.000							
O 00	GTP1					P	F8	NL-60D		
O 09	11: 36: 42								5.785	4.457 3.129
O 00	GTP2					P	F8	NL-60D		
O 09	11: 38: 42								6.117	4.934 3.751
S 00	S3					P	G1			
S 01	11: 38: 58	11/16/95	1.000							
O 00	GTP2					P	F8	NL-60D		
O 09	11: 41: 16								5.727	4.840 3.953
O 00	GTP3					P	F8	NL-60D		
O 09	11: 47: 04								8.363	7.479 6.595
S 00	S4					P	G1			
S 01	11: 47: 24	11/16/95	1.000							
O 00	GTP3					P	F8	NL-60D		
O 09	11: 50: 29								3.334	2.011 0.688
O 00	GTP4					P	F8	NL-60D		
O 09	11: 54: 38								5.940	4.628 3.316
S 00	S5					P	G1			
S 01	11: 54: 52	11/16/95	1.000							
O 00	GTP4					P	F8	NL-60D		
O 09	11: 57: 52								6.261	4.985 3.709
O 00	GTP5					P	F8	NL-60D		
O 09	11: 59: 47								6.321	5.147 3.973
S 00	S6					P	G1			
S 01	12: 00: 03	11/16/95	1.000							
O 00	GTP5					P	F8	NL-60D		
O 09	12: 02: 52								6.836	5.432 4.028
O 00	GTP6					P	F8	NL-60D		
O 09	12: 08: 08								6.778	5.246 3.714
S 00	S7					P	G1			
S 01	12: 08: 22	11/16/95	1.000							
O 00	GTP6					P	F8	NL-60D		
O 09	12: 11: 01								6.064	4.765 3.466
O 00	GTP7					P	F8	NL-60D		
O 09	12: 13: 08								6.005	4.572 3.139
S 00	S8					P	G1			
S 01	12: 13: 22	11/16/95	1.000							
O 00	GTP7					P	F8	NL-60D		
O 09	12: 16: 50								5.926	4.766 3.606
O 00	GTP8					P	F8	NL-60D		
O 09	12: 18: 53								6.075	4.653 3.231
S 00	S9					P	G1			
S 01	12: 19: 09	11/16/95	1.000							
O 00	GTP8					P	F8	NL-60D		
O 09	12: 22: 32								6.216	4.729 3.242
O 00	GTP9					P	F8	NL-60D		
O 09	12: 25: 00								6.326	5.078 3.830
S 00	S10					P	G1			
S 01	12: 25: 15	11/16/95	1.000							
O 00	GTP9					P	F8	NL-60D		
O 09	12: 27: 40								5.956	4.689 3.422
O 00	GTP10					P	F8	NL-60D		
O 09	12: 29: 28								6.307	4.882 3.457
SD00	S11					P	G1			
SD01	12: 29: 52	11/16/95	1.000							

0 00	GMONW1							
0 99	SHOT TAKEN @ NORTH SIDE OF OUTER WELL CASEING							
0 09	12: 38: 49					5. 169	4. 485	3. 801
0 00	GMONW2				P F8 MONW-2" PVC			
0 99	SHOT TAKEN @ NORTH SIDE OF 2" PVC WELL							
0 09	12: 41: 28					5. 267	4. 585	3. 903
S 00	S12				P G1			
S 01	12: 42: 21	11/16/95	1. 000					
0 00	GMONW2				P F8 MONW-2" PVC			
0 99	SHOT TAKEN @ NORTH SIDE OF 2" PVC WELL							
0 09	13: 14: 51					5. 610	4. 532	3. 454
0 00	GTP11				P F8 NL-60D			
0 09	13: 17: 55					5. 380	4. 459	3. 538
S 00	S13				P G1			
S 01	13: 18: 01	11/16/95	1. 000					
0 00	GTP11				P F8 NL-60D			
0 09	13: 22: 05					5. 432	4. 467	3. 502
0 00	GTP12				P F8 NL-60D			
0 09	13: 25: 04					5. 710	4. 438	3. 166
S 00	S14				P G1			
S 01	13: 25: 22	11/16/95	1. 000					
0 00	GTP12				P F8 NL-60D			
0 09	13: 28: 15					6. 042	4. 824	3. 606
0 00	GTP13				P F8 NL-60D			
0 09	13: 30: 50					6. 165	4. 807	3. 449
S 00	S15				P G1			
S 01	13: 31: 05	11/16/95	1. 000					
0 00	GTP13				P F8 NL-60D			
0 09	13: 34: 18					6. 554	5. 044	3. 534
0 00	GTP14				P F8 NL-60D			
0 09	13: 36: 16					6. 113	4. 860	3. 607
S 00	S16				P G1			
S 01	13: 36: 28	11/16/95	1. 000					
0 00	GTP14				P F8 NL-60D			
0 09	13: 39: 02					6. 163	4. 721	3. 279
0 00	GTP15				P F8 NL-60D			
0 09	13: 41: 27					5. 965	4. 676	3. 387
S 00	S17				P G1			
S 01	13: 41: 41	11/16/95	1. 000					
0 00	GTP15				P F8 NL-60D			
0 09	13: 44: 39					6. 019	4. 638	3. 257
0 00	GTP16				P F8 NL-60D			
0 09	13: 46: 26					6. 176	4. 846	3. 516
S 00	S18				P G1			
S 01	13: 46: 40	11/16/95	1. 000					
0 00	GTP16				P F8 NL-60D			
0 09	13: 49: 37					6. 018	4. 562	3. 106
0 00	GTP17				P F8 NL-60D			
0 09	13: 51: 49					6. 148	4. 798	3. 448
S 00	S19				P G1			
S 01	13: 52: 01	11/16/95	1. 000					
0 00	GTP17				P F8 NL-60D			
0 09	13: 54: 48					6. 164	4. 847	3. 530
0 00	GTP18				P F8 NL-60D			
0 09	13: 56: 30					6. 227	4. 892	3. 557
S 00	S20				P G1			
S 01	13: 56: 47	11/16/95	1. 000					
0 00	GTP18				P F8 NL-60D			
0 09	13: 59: 42					6. 592	5. 171	3. 750
0 00	GTP19				P F8 NL-60D			
0 09	14: 01: 38					5. 852	4. 744	3. 636
S 00	S21				P G1			
S 01	14: 01: 50	11/16/95	1. 000					
0 00	GTP19				P F8 NL-60D			
0 09	14: 04: 20					6. 738	5. 316	3. 894
0 00	GTP20				P F8 NL-60D			
0 09	14: 06: 21					6. 042	4. 610	3. 178
S 00	S22				P G1			
S 01	14: 06: 32	11/16/95	1. 000					
0 00	GTP20				P F8 NL-60D			

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O 09 14: 10: 34                11.450  9.949  8.448
O 00 GBM2                      P F8 CMON-DCBM-R722
O 09 14: 14: 15                7.525  6.486  5.447
R 00 00: 00: 00 12/31/99
R 99 TAPE OBSERVATION DATA STARTS HERE
C 00 00: 00: 00 12/31/99
C 99 DUMMY TAPE CALIBRATION TO RE-INITIALIZE COLLIMATION TO ZERO
C 01 TAPING          TAPING          10 99 100
C 03 00: 00: 00                D 0 0 0.0 90 0 0.0
C 03 00: 00: 00                D 0 0 0.0 90 0 0.0
C 03 00: 00: 00                R 180 0 0.0 270 0 0.0
C 03 00: 00: 00                R 180 0 0.0 270 0 0.0
R 00 00: 00: 00 12/31/99
R 99 TAPE OBSERVATION DATA ENDS HERE
R 00 00: 00: 00 12/31/99
R 99 TAPE TRAVERSE DATA (I. E. CHAINS) START HERE
R 00 00: 00: 00 12/31/99
R 99 TAPE TRAVERSE DATA (I. E. CHAINS) ENDS HERE
R 00 00: 00: 00 12/31/99
R 99 CHAIN DATA STARTS HERE
R 00 00: 00: 00 12/31/99
R 99 CHAIN DATA ENDS HERE
R 00 00: 00: 00 12/31/99
R 99 PREFIX DATA STARTS HERE
P 00
P 01 S22, GBM2, GTP20, GMONW2
' ¡F2- 2¶"ñT' ¡^"- €α α x* β-+ "Ò"¼L' ¡^"-β- ¡;i+j;â" xL' ¡^"-
R 00 00: 00: 00 12/31/99
R 99 PREFIX DATA ENDS HERE
    
```

1834H. 1D

MISCLOSURE OF MULTIPLE ELEV. DIFFERENCE MEASUREMENTS
 STATIONS MISCLOSURE
 END OF MISCLOSURE REPORT

23 OF 45 STATIONS IDENTIFIED AS VERTICAL SIDESHOTS
 BAND IS 1 STATIONS
 LEVEL NETWORK ADJUSTMENT

NUMBER OF BENCHMARKS = 2
 NUMBER OF STATIONS = 22
 NUMBER OF MEASUREMENTS = 21
 NUMBER OF REQUIRED TERMS FOR NORMAL EQUATIONS = 43

RESULTS OF ADJUSTMENT

BENCHMARK ELEVATION RESIDUALS

STATION	INPUT ELEV.	ADJUSTED ELEV.	ERROR EST.	RESIDUAL
GBM1	5.330	5.330	.000	.000 (.0)
GBM2	5.330	5.330	.000	.000 (.0)

BENCHMARK RMS ERROR = .000 SNOOP RMS = .0
 MAX. BENCHMARK RESIDUAL AT STATION GBM2 OF .000

RESIDUALS

FROM	TO	MEASURED	RESIDUAL	EST. ERROR
GBM1	GTP1	1.322	-.006 (.6)	.010
GTP1	GTP2	-.477	-.006 (.6)	.010
GTP2	GTP3	-2.639	-.006 (.6)	.010
GTP3	GTP4	-2.617	-.006 (.6)	.010
GTP4	GTP5	-.162	-.006 (.6)	.010
GTP5	GTP6	.186	-.006 (.6)	.010
GTP6	GTP7	.193	-.006 (.6)	.010
GTP7	GTP8	.113	-.006 (.6)	.010
GTP8	GTP9	-.349	-.006 (.6)	.010

88 Adjustment 1834G.txt

GTP9	GMONW2	.104	-.006	(.6)	.010
GMONW2	GTP11	.073	-.006	(.6)	.010
GTP11	GTP12	.029	-.006	(.6)	.010
GTP12	GTP13	.017	-.006	(.6)	.010
GTP13	GTP14	.184	-.006	(.6)	.010
GTP14	GTP15	.045	-.006	(.6)	.010
GTP15	GTP16	-.208	-.006	(.6)	.010
GTP16	GTP17	-.236	-.006	(.6)	.010
GTP17	GTP18	-.045	-.006	(.6)	.010
GTP18	GTP19	.427	-.006	(.6)	.010
GTP19	GTP20	.706	-.006	(.6)	.010
GTP20	GBM2	3.463	-.006	(.6)	.010

ELEV. DIFF. RMS ERROR = .006 SNOOP RMS = .6
 MAX. ELEV. DIFF. RESIDUAL GBM1 - GTP1 OF .006

95% CONFIDENCE F STATISTIC STANDARD ERROR MULTIPLIER FOR 1 D.F. IS 20.00

STATION ADJUSTED ELEV. STANDARD ERROR

GBM1	5.330	.006
GTP1	6.646	.549
GTP2	6.163	.757
GTP3	3.518	.903
GTP4	.894	1.013
GTP5	.726	1.099
GTP6	.906	1.166
GTP7	1.093	1.216
GTP8	1.200	1.253
GTP9	.845	1.277
GMONW2	.943	1.289
GTP11	1.009	1.289
GTP12	1.032	1.277
GTP13	1.043	1.253
GTP14	1.221	1.216
GTP15	1.260	1.166
GTP16	1.046	1.099
GTP17	.804	1.013
GTP18	.752	.903
GTP19	1.173	.757
GTP20	1.873	.549
GBM2	5.330	.006

STANDARD ERROR OF UNIT WEIGHT IS 2.815
 WITH 1 DEGREES OF FREEDOM

CHI SQUARED TEST ON ANALYSIS

.031 < 2.815 < 1.960
 (LOW) (HIGH)
 DOES NOT PASS AT THE 5% SIGNIFICANCE LEVEL

1834G. CHL

PROJECT NAME IS 1834G

ELEVATION CLOSURE REPORT

SUM OF DISTANCES ALONG SURVEY IS 10217.300

CLOSURE IN ELEVATION (Z) = -.129

CLOSURE PER STATION = -.006

PRECISION = 1 / 79204.

STATION ELEVATION (Z)

GBM1	5.330
GTP1	6.646
GTP2	6.163
GTP3	3.518
GTP4	.894
GTP5	.726

88 Adjustment 1834G.txt

GTP6	.906
GTP7	1.093
GTP8	1.200
GTP9	.845
GMONW2	.943
GTP11	1.009
GTP12	1.032
GTP13	1.043
GTP14	1.221
GTP15	1.260
GTP16	1.046
GTP17	.804
GTP18	.752
GTP19	1.173
GTP20	1.873
GBM2	5.330

TOTAL LENGTH OF EVALUATED SURVEY DISTANCE = 1.935 MILES
 OVERALL PRECISION = 1 / 79204.

1834G. CTL

G 00	1834G				
G 01	GBM1	GBM1	P F8 IRC R-724		0901 83F88
G 02			5.3300		.0001
G 01	GBM2	GBM2	P F8 IRC R-722		0901 83F88
G 02			5.3300		.0001

1834G. XYZ

G 00	1834G. XYZ				
G 01	GBM1		P F8 CMON-DCBM-R724		0901 83F88
G 02			5.330		.006
G 01	GTP1		P F8 NL-60D		0901 83F88
G 02			6.646		.549
G 01	GTP2		P F8 NL-60D		0901 83F88
G 02			6.163		.757
G 01	GTP3		P F8 NL-60D		0901 83F88
G 02			3.518		.903
G 01	GTP4		P F8 NL-60D		0901 83F88
G 02			.894		1.013
G 01	GTP5		P F8 NL-60D		0901 83F88
G 02			.726		1.099
G 01	GTP6		P F8 NL-60D		0901 83F88
G 02			.906		1.166
G 01	GTP7		P F8 NL-60D		0901 83F88
G 02			1.093		1.216
G 01	GTP8		P F8 NL-60D		0901 83F88
G 02			1.200		1.253
G 01	GTP9		P F8 NL-60D		0901 83F88
G 02			.845		1.277
G 01	GTP10		P F8 NL-60D		0901 83F88
G 02			.652		
G 01	GMONW1		P F8 MONW-OUTER CASEING		0901 83F88
G 99	SHOT TAKEN @ NORTH SIDE OF OUTER WELL CASEING				
G 02			1.049		
G 01	GMONW2		P F8 MONW-2" PVC		0901 83F88
G 99	SHOT TAKEN @ NORTH SIDE OF 2" PVC WELL				
G 02			.943		1.289
G 01	GTP11		P F8 NL-60D		0901 83F88
G 02			1.009		1.289
G 01	GTP12		P F8 NL-60D		0901 83F88
G 02			1.032		1.277
G 01	GTP13		P F8 NL-60D		0901 83F88
G 02			1.043		1.253
G 01	GTP14		P F8 NL-60D		0901 83F88
G 02			1.221		1.216
G 01	GTP15		P F8 NL-60D		0901 83F88
G 02			1.260		1.166

88 Adjustment 1834G.txt		
G 01 GTP16	P F8 NL-60D	0901 83F88
G 02	1.046	1.099
G 01 GTP17	P F8 NL-60D	0901 83F88
G 02	.804	1.013
G 01 GTP18	P F8 NL-60D	0901 83F88
G 02	.752	.903
G 01 GTP19	P F8 NL-60D	0901 83F88
G 02	1.173	.757
G 01 GTP20	P F8 NL-60D	0901 83F88
G 02	1.873	.549
G 01 GBM2	P F8 CMON-DCBM-R722	0901 83F88
G 02	5.330	.006

H 00	1834G								
H 99	BISCAYNE BAY WELLS								
C 00	11: 19: 04	11/16/95	90	30.0	000001	DF	TB	NL	
C 01	WILD	NA2000		90273				100	
C 13	11: 25: 43		3.79	4.18	4.61	5.00			
S 00	S1					P	G1		
S 01	11: 26: 39	11/16/95	1.000						
SM00	S1					P	F8		
SM01	11: 26: 02	11/16/95	1.000						
O 00	GBM1					P	F8	CMON-DCBM-R724	
O 09	11: 31: 09								6.885 5.800 4.715
O 00	GTP1					P	F8	NL-60D	
O 09	11: 33: 09								5.619 4.478 3.337
S 00	S2					P	G1		
S 01	11: 33: 22	11/16/95	1.000						
O 00	GTP1					P	F8	NL-60D	
O 09	11: 36: 42								5.785 4.457 3.129
O 00	GTP2					P	F8	NL-60D	
O 09	11: 38: 42								6.117 4.934 3.751
S 00	S3					P	G1		
S 01	11: 38: 58	11/16/95	1.000						
O 00	GTP2					P	F8	NL-60D	
O 09	11: 41: 16								5.727 4.840 3.953
O 00	GTP3					P	F8	NL-60D	
O 09	11: 47: 04								8.363 7.479 6.595
S 00	S4					P	G1		
S 01	11: 47: 24	11/16/95	1.000						
O 00	GTP3					P	F8	NL-60D	
O 09	11: 50: 29								3.334 2.011 0.688
O 00	GTP4					P	F8	NL-60D	
O 09	11: 54: 38								5.940 4.628 3.316
S 00	S5					P	G1		
S 01	11: 54: 52	11/16/95	1.000						
O 00	GTP4					P	F8	NL-60D	
O 09	11: 57: 52								6.261 4.985 3.709
O 00	GTP5					P	F8	NL-60D	
O 09	11: 59: 47								6.321 5.147 3.973
S 00	S6					P	G1		
S 01	12: 00: 03	11/16/95	1.000						
O 00	GTP5					P	F8	NL-60D	
O 09	12: 02: 52								6.836 5.432 4.028
O 00	GTP6					P	F8	NL-60D	
O 09	12: 08: 08								6.778 5.246 3.714
S 00	S7					P	G1		
S 01	12: 08: 22	11/16/95	1.000						
O 00	GTP6					P	F8	NL-60D	
O 09	12: 11: 01								6.064 4.765 3.466
O 00	GTP7					P	F8	NL-60D	
O 09	12: 13: 08								6.005 4.572 3.139
S 00	S8					P	G1		
S 01	12: 13: 22	11/16/95	1.000						
O 00	GTP7					P	F8	NL-60D	
O 09	12: 16: 50								5.926 4.766 3.606
O 00	GTP8					P	F8	NL-60D	
O 09	12: 18: 53								6.075 4.653 3.231
S 00	S9					P	G1		
S 01	12: 19: 09	11/16/95	1.000						
O 00	GTP8					P	F8	NL-60D	
O 09	12: 22: 32								6.216 4.729 3.242
O 00	GTP9					P	F8	NL-60D	
O 09	12: 25: 00								6.326 5.078 3.830
S 00	S10					P	G1		
S 01	12: 25: 15	11/16/95	1.000						
O 00	GTP9					P	F8	NL-60D	
O 09	12: 27: 40								5.956 4.689 3.422
O 00	GTP10					P	F8	NL-60D	
O 09	12: 29: 28								6.307 4.882 3.457
SD00	S11					P	G1		
SD01	12: 29: 52	11/16/95	1.000						
O 00	GMONW1					P	F8	MONW-OUTER CASEI NG	

0 99 SHOT TAKEN @ NORTH SIDE OF OUTER WELL CASEING				
0 09 12: 38: 49			5. 169	4. 485 3. 801
0 00 GMONW2		P F8 MONW-2" PVC		
0 99 SHOT TAKEN @ NORTH SIDE OF 2" PVC WELL				
0 09 12: 41: 28			5. 267	4. 585 3. 903
S 00 S12		P G1		
S 01 12: 42: 21 11/16/95 1. 000				
0 00 GMONW2		P F8 MONW-2" PVC		
0 99 SHOT TAKEN @ NORTH SIDE OF 2" PVC WELL				
0 09 13: 14: 51			5. 610	4. 532 3. 454
0 00 GTP11		P F8 NL-60D		
0 09 13: 17: 55			5. 380	4. 459 3. 538
S 00 S13		P G1		
S 01 13: 18: 01 11/16/95 1. 000				
0 00 GTP11		P F8 NL-60D		
0 09 13: 22: 05			5. 432	4. 467 3. 502
0 00 GTP12		P F8 NL-60D		
0 09 13: 25: 04			5. 710	4. 438 3. 166
S 00 S14		P G1		
S 01 13: 25: 22 11/16/95 1. 000				
0 00 GTP12		P F8 NL-60D		
0 09 13: 28: 15			6. 042	4. 824 3. 606
0 00 GTP13		P F8 NL-60D		
0 09 13: 30: 50			6. 165	4. 807 3. 449
S 00 S15		P G1		
S 01 13: 31: 05 11/16/95 1. 000				
0 00 GTP13		P F8 NL-60D		
0 09 13: 34: 18			6. 554	5. 044 3. 534
0 00 GTP14		P F8 NL-60D		
0 09 13: 36: 16			6. 113	4. 860 3. 607
S 00 S16		P G1		
S 01 13: 36: 28 11/16/95 1. 000				
0 00 GTP14		P F8 NL-60D		
0 09 13: 39: 02			6. 163	4. 721 3. 279
0 00 GTP15		P F8 NL-60D		
0 09 13: 41: 27			5. 965	4. 676 3. 387
S 00 S17		P G1		
S 01 13: 41: 41 11/16/95 1. 000				
0 00 GTP15		P F8 NL-60D		
0 09 13: 44: 39			6. 019	4. 638 3. 257
0 00 GTP16		P F8 NL-60D		
0 09 13: 46: 26			6. 176	4. 846 3. 516
S 00 S18		P G1		
S 01 13: 46: 40 11/16/95 1. 000				
0 00 GTP16		P F8 NL-60D		
0 09 13: 49: 37			6. 018	4. 562 3. 106
0 00 GTP17		P F8 NL-60D		
0 09 13: 51: 49			6. 148	4. 798 3. 448
S 00 S19		P G1		
S 01 13: 52: 01 11/16/95 1. 000				
0 00 GTP17		P F8 NL-60D		
0 09 13: 54: 48			6. 164	4. 847 3. 530
0 00 GTP18		P F8 NL-60D		
0 09 13: 56: 30			6. 227	4. 892 3. 557
S 00 S20		P G1		
S 01 13: 56: 47 11/16/95 1. 000				
0 00 GTP18		P F8 NL-60D		
0 09 13: 59: 42			6. 592	5. 171 3. 750
0 00 GTP19		P F8 NL-60D		
0 09 14: 01: 38			5. 852	4. 744 3. 636
S 00 S21		P G1		
S 01 14: 01: 50 11/16/95 1. 000				
0 00 GTP19		P F8 NL-60D		
0 09 14: 04: 20			6. 738	5. 316 3. 894
0 00 GTP20		P F8 NL-60D		
0 09 14: 06: 21			6. 042	4. 610 3. 178
S 00 S22		P G1		
S 01 14: 06: 32 11/16/95 1. 000				
0 00 GTP20		P F8 NL-60D		
0 09 14: 10: 34			11. 450	9. 949 8. 448

```

O 00 GBM2
P F8 CMON-DCBM-R722
O 09 14:14:15 7.525 6.486 5.447
R 00 00:00:00 12/31/99
R 99 TAPE OBSERVATION DATA STARTS HERE
C 00 00:00:00 12/31/99
C 99 DUMMY TAPE CALIBRATION TO RE-INITIALIZE COLLIMATION TO ZERO
C 01 TAPING TAPING 10 99 100
C 03 00:00:00 D 0 0 0.0 90 0 0.0
C 03 00:00:00 D 0 0 0.0 90 0 0.0
C 03 00:00:00 R 180 0 0.0 270 0 0.0
C 03 00:00:00 R 180 0 0.0 270 0 0.0
R 00 00:00:00 12/31/99
R 99 TAPE OBSERVATION DATA ENDS HERE
R 00 00:00:00 12/31/99
R 99 TAPE TRAVERSE DATA (I. E. CHAINS) START HERE
R 00 00:00:00 12/31/99
R 99 TAPE TRAVERSE DATA (I. E. CHAINS) ENDS HERE
R 00 00:00:00 12/31/99
R 99 CHAIN DATA STARTS HERE
R 00 00:00:00 12/31/99
R 99 CHAIN DATA ENDS HERE
R 00 00:00:00 12/31/99
R 99 PREFIX DATA STARTS HERE
P 00
P 01 S22, GBM2, GTP20, GMONW2
' !F2- 2|| n' !^"- €α α x* β-+ " 0" ¼ L' !^"-β- !ÿ-i+jÿ-â" x L' !^"-
R 00 00:00:00 12/31/99
R 99 PREFIX DATA ENDS HERE
    
```

1834G. 1D
 MI SCLOSURE OF MULTIPLE ELEV. DIFFERENCE MEASUREMENTS
 STATIONS MI SCLOSURE
 END OF MI SCLOSURE REPORT

23 OF 45 STATIONS IDENTIFIED AS VERTICAL SIDESHOTS
 BAND IS 1 STATIONS
 LEVEL NETWORK ADJUSTMENT

NUMBER OF BENCHMARKS = 2
 NUMBER OF STATIONS = 22
 NUMBER OF MEASUREMENTS = 21
 NUMBER OF REQUIRED TERMS FOR NORMAL EQUATIONS = 43

RESULTS OF ADJUSTMENT

BENCHMARK ELEVATION RESIDUALS

STATION	INPUT ELEV.	ADJUSTED ELEV.	ERROR EST.	RESIDUAL
GBM1	6.850	6.850	.000	.000 (.0)
GBM2	6.850	6.850	.000	.000 (.0)

BENCHMARK RMS ERROR = .000 SNOOP RMS = .0
 MAX. BENCHMARK RESIDUAL AT STATION GBM2 OF .000

RESIDUALS

FROM	TO	MEASURED	RESIDUAL	EST. ERROR
GBM1	GTP1	1.322	-.006 (.6)	.010
GTP1	GTP2	-.477	-.006 (.6)	.010
GTP2	GTP3	-2.639	-.006 (.6)	.010
GTP3	GTP4	-2.617	-.006 (.6)	.010
GTP4	GTP5	-.162	-.006 (.6)	.010
GTP5	GTP6	.186	-.006 (.6)	.010
GTP6	GTP7	.193	-.006 (.6)	.010
GTP7	GTP8	.113	-.006 (.6)	.010
GTP8	GTP9	-.349	-.006 (.6)	.010
GTP9	GMONW2	.104	-.006 (.6)	.010

29 Adjustment 1834G.txt

GMONW2	GTP11	.073	-.006	(.6)	.010
GTP11	GTP12	.029	-.006	(.6)	.010
GTP12	GTP13	.017	-.006	(.6)	.010
GTP13	GTP14	.184	-.006	(.6)	.010
GTP14	GTP15	.045	-.006	(.6)	.010
GTP15	GTP16	-.208	-.006	(.6)	.010
GTP16	GTP17	-.236	-.006	(.6)	.010
GTP17	GTP18	-.045	-.006	(.6)	.010
GTP18	GTP19	.427	-.006	(.6)	.010
GTP19	GTP20	.706	-.006	(.6)	.010
GTP20	GBM2	3.463	-.006	(.6)	.010

ELEV. DIFF. RMS ERROR = .006 SNOOP RMS = .6
 MAX. ELEV. DIFF. RESIDUAL GTP20 - GBM2 OF .006

95% CONFIDENCE F STATISTIC STANDARD ERROR MULTIPLIER FOR 1 D.F. IS 20.00

STATION	ADJUSTED ELEV.	STANDARD ERROR
GBM1	6.850	.006
GTP1	8.166	.549
GTP2	7.683	.757
GTP3	5.038	.903
GTP4	2.414	1.013
GTP5	2.246	1.099
GTP6	2.426	1.166
GTP7	2.613	1.216
GTP8	2.720	1.253
GTP9	2.365	1.277
GMONW2	2.463	1.289
GTP11	2.529	1.289
GTP12	2.552	1.277
GTP13	2.563	1.253
GTP14	2.741	1.216
GTP15	2.780	1.166
GTP16	2.566	1.099
GTP17	2.324	1.013
GTP18	2.272	.903
GTP19	2.693	.757
GTP20	3.393	.549
GBM2	6.850	.006

STANDARD ERROR OF UNIT WEIGHT IS 2.815
 WITH 1 DEGREES OF FREEDOM

CHI SQUARED TEST ON ANALYSIS
 .031 < 2.815 < 1.960
 (LOW) (HIGH)
 DOES NOT PASS AT THE 5 % SIGNIFICANCE LEVEL

1834G. CHL

PROJECT NAME IS 1834G

ELEVATION CLOSURE REPORT
 SUM OF DISTANCES ALONG SURVEY IS 10217.300
 CLOSURE IN ELEVATION (Z) = -.129
 CLOSURE PER STATION = -.006
 PRECISION = 1 / 79204.

STATION	ELEVATION (Z)
GBM1	6.850
GTP1	8.166
GTP2	7.683
GTP3	5.038
GTP4	2.414
GTP5	2.246
GTP6	2.426

29 Adjustment 1834G.txt

GTP7	2.613
GTP8	2.720
GTP9	2.365
GMONW2	2.463
GTP11	2.529
GTP12	2.552
GTP13	2.563
GTP14	2.741
GTP15	2.780
GTP16	2.566
GTP17	2.324
GTP18	2.272
GTP19	2.693
GTP20	3.393
GBM2	6.850

TOTAL LENGTH OF EVALUATED SURVEY DISTANCE = 1.935 MILES
 OVERALL PRECISION = 1 / 79204.

1834G. CTL

G 00	1834G				
G 01	GBM1	GBM1	P F8 IRC R-724		0901 83F29
G 02			6.8500		.0001
G 01	GBM2	GBM2	P F8 IRC R-722		0901 83F29
G 02			6.8500		.0001

1834G. XYZ

G 00	1834G. XYZ				
G 01	GBM1		P F8 CMON-DCBM-R724		0901 83F29
G 02			6.850		.006
G 01	GTP1		P F8 NL-60D		0901 83F29
G 02			8.166		.549
G 01	GTP2		P F8 NL-60D		0901 83F29
G 02			7.683		.757
G 01	GTP3		P F8 NL-60D		0901 83F29
G 02			5.038		.903
G 01	GTP4		P F8 NL-60D		0901 83F29
G 02			2.414		1.013
G 01	GTP5		P F8 NL-60D		0901 83F29
G 02			2.246		1.099
G 01	GTP6		P F8 NL-60D		0901 83F29
G 02			2.426		1.166
G 01	GTP7		P F8 NL-60D		0901 83F29
G 02			2.613		1.216
G 01	GTP8		P F8 NL-60D		0901 83F29
G 02			2.720		1.253
G 01	GTP9		P F8 NL-60D		0901 83F29
G 02			2.365		1.277
G 01	GTP10		P F8 NL-60D		0901 83F29
G 02			2.172		
G 01	GMONW1		P F8 MONW-OUTER CASEING		0901 83F29
G 99	SHOT TAKEN @ NORTH SIDE OF OUTER WELL CASEING				
G 02			2.569	GW2	
G 01	GMONW2		P F8 MONW-2" PVC		0901 83F29
G 99	SHOT TAKEN @ NORTH SIDE OF 2" PVC WELL				
G 02			2.463		1.289
G 01	GTP11		P F8 NL-60D		0901 83F29
G 02			2.529		1.289
G 01	GTP12		P F8 NL-60D		0901 83F29
G 02			2.552		1.277
G 01	GTP13		P F8 NL-60D		0901 83F29
G 02			2.563		1.253
G 01	GTP14		P F8 NL-60D		0901 83F29
G 02			2.741		1.216
G 01	GTP15		P F8 NL-60D		0901 83F29
G 02			2.780		1.166
G 01	GTP16		P F8 NL-60D		0901 83F29

	29 Adjustment 1834G.txt	
G 02	2.566	1.099
G 01 GTP17	P F8 NL-60D	0901 83F29
G 02	2.324	1.013
G 01 GTP18	P F8 NL-60D	0901 83F29
G 02	2.272	.903
G 01 GTP19	P F8 NL-60D	0901 83F29
G 02	2.693	.757
G 01 GTP20	P F8 NL-60D	0901 83F29
G 02	3.393	.549
G 01 GBM2	P F8 CMON-DCBM-R722	0901 83F29
G 02	6.850	.006

88 Adjustment BMPALM.txt

BMPALM. OBS

H 00 BMPALM		08: 55: 33 12/07/95		08: 55: 33 12/07/95		ENGLISH		2. 55	
C 00	08: 59: 24	12/07/95	90	30.0	000001	CC	TC	GF	
C 01	WILD	T2000		90788				100	
C 13	09: 14: 15	4.44	4.54	4.82	4.72				
S 00	S1			P	F8				
S 01	09: 16: 58	12/07/95	1.000						
C 00	09: 50: 39	12/07/95	90	30.0	000001	CC	TC	GF	
C 01	WILD	T2000		90788				100	
C 00	09: 50: 58	12/07/95	90	30.0	000001	CC	TC	GF	
C 01	WILD	T2000		90788				100	
S 00	S1			P	F8				
S 01	09: 51: 41	12/07/95	1.000						
C 00	09: 52: 53	12/07/95	90	30.0	000001	CC	TC	GF	
C 01	WILD	T2000		90788				100	
S 00	S1			P	F8				
S 01	09: 53: 30	12/07/95	1.000						
C 00	09: 53: 54	12/07/95	90	30.0	000001	CC	TC	GF	
C 01	WILD	NA2000		90788				100	
C 00	09: 54: 22	12/07/95	90	30.0	000001	CC	TC	GF	
C 01	WILD	NA2000		90788				100	
C 13	09: 54: 49	4.44	4.54	4.82	4.92				
S 00	S1			P	F8				
S 01	09: 55: 23	12/07/95	1.000						
O 00	BM1	V314		P	F8 STMD				
O 09	09: 57: 13								3. 757 3. 406 3. 055
O 00	TP1			P	F8				
O 09	09: 59: 39								4. 352 3. 379 2. 406
S 00	S2			P	F8				
S 01	09: 59: 43	12/07/95	1.000						
O 00	TP1			P	F8				
O 09	10: 13: 30								5. 355 4. 013 2. 671
O 00	TP2			P	F8				
O 09	10: 20: 35								6. 396 5. 084 3. 772
S 00	S3			P	F8				
S 01	10: 20: 42	12/07/95	1.000						
O 00	TP2			P	F8				
O 09	10: 23: 41								6. 037 4. 708 3. 379
O 00	TP3			P	F8				
O 09	10: 25: 11								6. 218 4. 903 3. 588
S 00	S4			P	F8				
S 01	10: 25: 19	12/07/95	1.000						
O 00	TP3			P	F8				
O 09	10: 27: 54								6. 586 5. 257 3. 928
O 00	TP4			P	F8				
O 09	10: 30: 05								6. 554 5. 237 3. 920
S 00	S5			P	F8				
S 01	10: 30: 10	12/07/95	1.000						
O 00	TP4			P	F8				
O 09	10: 36: 11								5. 885 4. 546 3. 207
O 00	TP5			P	F8				
O 09	10: 42: 05								6. 053 4. 724 3. 395
S 00	S6			P	F8				
S 01	10: 42: 11	12/07/95	1.000						
O 00	TP5			P	F8				
O 09	10: 45: 28								5. 484 4. 219 2. 954
O 00	BM2	8-ES		P	F8 STMD				
O 09	10: 48: 26								4. 860 4. 062 3. 264
C 00	07: 12: 42	12/08/95	92	30.0	000001	CC	TC	GF	
C 01	WILD	NA2000		90788				100	
C 13	07: 13: 51	4.76	4.86	5.08	4.99				
S 00	S7			P	G8				
S 01	07: 15: 53	12/08/95	1.000						
O 00	BM2	8-ES		P	F8 STMD				
O 09	07: 26: 42								4. 454 4. 176 3. 898
O 00	TP6			P	F8 NL-TP10				
O 09	07: 27: 51								5. 005 4. 534 4. 063
S 00	S8			P	G8				
S 01	07: 27: 55	12/08/95	1.000						
O 00	TP6			P	F8 NL-TP10				

88 Adjustment BMPALM.txt

0 09 07: 38: 15					5. 725	4. 358	2. 990
0 00 TP7				P F8 NL-TP11			
0 09 07: 40: 25					5. 596	4. 276	2. 956
S 00 S9				P G8			
S 01 07: 40: 32	12/08/95	1. 000					
0 00 TP7				P F8 NL-TP11			
0 09 07: 47: 17					5. 875	4. 679	3. 480
0 00 TP8				P F8 NL-TP12			
0 09 07: 50: 19					6. 207	5. 061	3. 915
S 00 S10				P G8			
S 01 07: 50: 26	12/08/95	1. 000					
0 00 TP8				P F8 NL-TP12			
0 09 07: 54: 40					8. 829	7. 606	6. 383
0 00 TP9				P F8 NL-TP13			
0 09 07: 56: 52					8. 199	7. 065	5. 931
S 00 S11				P G8			
S 01 07: 56: 58	12/08/95	1. 000					
0 00 TP9				P F8 NL-TP13			
0 09 08: 00: 15					6. 646	5. 487	4. 328
0 00 TP10				P F8 NL-TP14			
0 09 08: 02: 50					6. 779	5. 592	4. 405
S 00 S12				P G8			
S 01 08: 02: 54	12/08/95	1. 000					
0 00 TP10				P F8 NL-TP14			
0 09 08: 07: 46					5. 462	4. 320	3. 178
0 00 TP11				P F8 NL-TP15			
0 09 08: 09: 42					5. 369	4. 159	2. 949
S 00 S13				P G8			
S 01 08: 09: 46	12/08/95	1. 000					
0 00 TP11				P F8 NL-TP15			
0 09 08: 13: 38					6. 283	5. 058	3. 833
0 00 TP12				P F8 NL-TP16			
0 09 08: 15: 56					7. 124	5. 843	4. 562
S 00 S14				P G8			
S 01 08: 16: 00	12/08/95	1. 000					
0 00 TP12				P F8 NL-TP16			
0 09 08: 22: 08					6. 970	5. 753	4. 530
0 00 TP13				P F8 NL-TP17			
0 09 08: 24: 50					6. 890	5. 551	4. 212
S 00 S15				P G8			
S 01 08: 24: 55	12/08/95	1. 000					
0 00 TP13				P F8 NL-TP17			
0 09 08: 29: 10					6. 506	5. 212	3. 918
0 00 TP14				P F8 NL-TP18			
0 09 08: 33: 48					6. 000	4. 730	3. 460
S 00 S16				P G8			
S 01 08: 33: 52	12/08/95	1. 000					
0 00 TP14				P F8 NL-TP18			
0 09 08: 39: 21					5. 659	4. 352	3. 045
0 00 TP15				P F8 NL-TP19			
0 09 08: 43: 43					5. 735	4. 446	3. 157
S 00 S17				P G8			
S 01 08: 43: 48	12/08/95	1. 000					
0 00 TP15				P F8 NL-TP19			
0 09 08: 46: 58					6. 440	5. 155	3. 870
0 00 TP16				P F8 NL-TP20			
0 09 08: 51: 37					7. 141	5. 832	4. 523
S 00 S18				P G8			
S 01 08: 51: 41	12/08/95	1. 000					
0 00 TP16				P F8 NL-TP20			
0 09 08: 54: 25					6. 910	5. 609	4. 308
0 00 TP17				P F8 NL-TP21			
0 09 08: 57: 21					6. 022	4. 730	3. 438
S 00 S19				P G8			
S 01 08: 57: 26	12/08/95	1. 000					
0 00 TP17				P F8 NL-TP21			
0 09 08: 59: 38					5. 659	4. 370	3. 081
0 00 TP18				P F8 NL-TP22			
0 09 09: 01: 54					4. 910	3. 630	2. 350
S 00 S20				P G8			

88 Adjustment BMPALM.txt

S 01 09: 01: 59	12/08/95	1.000					
0 00 TP18			P F8 NL-TP22				
0 09 09: 06: 26				7.486	5.890	4.294	
0 00 C1			P F8 NL-C3				
0 09 09: 08: 22				6.968	6.455	5.942	
0 00 TP19			P F8 NL-TP23				
0 09 09: 12: 33				9.560	8.070	6.580	
S 00 S21			P G8				
S 01 09: 12: 59	12/08/95	1.000					
0 00 TP19			P F8 NL-TP23				
0 09 09: 17: 04				7.391	6.027	4.663	
0 00 TP20			P F8 NL-TP24				
0 09 09: 19: 40				7.249	5.938	4.627	
S 00 S22			P G8				
S 01 09: 19: 44	12/08/95	1.000					
0 00 TP20			P F8 NL-TP24				
0 09 09: 22: 10				7.474	6.131	4.788	
0 00 TP21			P F8 NL-TP25				
0 09 09: 25: 29				6.735	5.442	4.149	
S 00 S23			P G8				
S 01 09: 25: 35	12/08/95	1.000					
0 00 TP21			P F8 NL-TP25				
0 09 09: 28: 53				3.920	2.853	1.786	
0 00 TP22			P F8 NL-TP26				
0 09 09: 32: 41				6.527	5.273	4.019	
S 00 S24			P G8				
S 01 09: 32: 48	12/08/95	1.000					
0 00 TP22			P F8 NL-TP26				
0 09 09: 35: 23				6.387	5.102	3.817	
0 00 TP23			P F8 NL-TP27				
0 09 09: 40: 10				5.940	4.646	3.352	
S 00 S25			P G8				
S 01 09: 40: 16	12/08/95	1.000					
0 00 TP23			P F8 NL-TP27				
0 09 09: 42: 57				6.012	4.699	3.386	
0 00 TP24			P F8 NL-TP28				
0 09 09: 45: 57				6.183	4.862	3.541	
S 00 S26			P G8				
S 01 09: 46: 03	12/08/95	1.000					
0 00 TP24			P F8 NL-TP28				
0 09 09: 49: 15				5.989	4.683	3.377	
0 00 TP25			P F8 NL-TP29				
0 09 09: 52: 22				5.873	4.664	3.455	
S 00 S27			P G8				
S 01 09: 52: 26	12/08/95	1.000					
0 00 TP25			P F8 NL-TP29				
0 09 09: 55: 24				5.822	4.517	3.212	
0 00 TP26			P F8 NL-TP30				
0 09 09: 59: 24				5.848	4.557	3.266	
S 00 S28			P G8				
S 01 09: 59: 28	12/08/95	1.000					
0 00 TP26			P F8 NL-TP30				
0 09 10: 03: 54				6.150	4.854	3.558	
0 00 TP27			P F8 NL-TP31				
0 09 10: 08: 07				6.458	4.977	3.496	
S 00 S29			P G8				
S 01 10: 08: 13	12/08/95	1.000					
0 00 TP27			P F8 NL-TP31				
0 09 10: 12: 27				6.472	5.135	3.798	
0 00 TP28			P F8 NL-TP32				
0 09 10: 16: 23				6.048	4.748	3.448	
S 00 S30			P G8				
S 01 10: 16: 28	12/08/95	1.000					
0 00 TP28			P F8 NL-TP32				
0 09 10: 19: 25				6.316	4.939	3.562	
0 00 TP29			P F8 NL-TP33				
0 09 10: 27: 50				6.641	5.454	4.267	
S 00 S31			P G8				
S 01 10: 27: 54	12/08/95	1.000					
0 00 TP29			P F8 NL-TP33				

88 Adjustment BMPALM.txt

0 09 10: 32: 04					6. 234	4. 857	3. 480
0 00 TP30	P F8	NL-TP34					
0 09 10: 36: 46					5. 968	4. 617	3. 266
S 00 S32	P G8						
S 01 10: 36: 50	12/08/95	1. 000					
0 00 TP30	P F8	NL-TP34					
0 09 10: 41: 22					7. 402	6. 135	4. 868
0 00 TP31	P F8	NL-TP35					
0 09 10: 45: 38					7. 338	6. 079	4. 820
S 00 S33	P G8						
S 01 10: 45: 42	12/08/95	1. 000					
0 00 TP31	P F8	NL-TP35					
0 09 10: 49: 25					5. 805	4. 560	3. 315
0 00 TP32	P F8	NL-TP36					
0 09 10: 53: 47					6. 293	4. 994	3. 695
S 00 S34	P G8						
S 01 10: 53: 51	12/08/95	1. 000					
0 00 TP32	P F8	NL-TP36					
0 09 11: 01: 29					6. 415	5. 124	3. 833
0 00 TP33	P F8	NL-TP37					
0 09 11: 05: 14					6. 713	5. 413	4. 113
S 00 S35	P G8						
S 01 11: 05: 19	12/08/95	1. 000					
0 00 TP33	P F8	NL-TP37					
0 09 11: 09: 18					6. 386	5. 109	3. 832
0 00 TP34	P F8	NL-TP38					
0 09 11: 15: 23					6. 155	4. 675	3. 195
S 00 S36	P G8						
S 01 11: 15: 28	12/08/95	1. 000					
0 00 TP34	P F8	NL-TP38					
0 09 11: 19: 40					5. 713	4. 695	3. 677
0 00 TP35	P F8	NL-TP39					
0 09 11: 24: 12					5. 825	4. 675	3. 525
S 00 S37	P G8						
S 01 11: 24: 17	12/08/95	1. 000					
0 00 TP35	P F8	NL-TP39					
0 09 11: 30: 44					5. 797	4. 802	3. 807
0 00 TP36	P F8	NL-TP40					
0 09 11: 37: 31					5. 931	5. 187	4. 443
S 00 S38	P G8						
S 01 11: 37: 39	12/08/95	1. 000					
0 00 TP36	P F8	NL-TP40					
0 09 11: 39: 35					5. 552	5. 227	4. 902
0 00 6A1	P F8	MONW					
0 99 CONC.							
0 09 11: 58: 13					5. 336	5. 159	4. 982
0 00 6A2	P F8	MONW					
0 99 TOP OF PIPE							
0 09 11: 58: 58					2. 639	2. 455	2. 271
0 00 6A3	P F8	MONW					
0 99 TOP OF PVC							
0 09 11: 59: 30					3. 032	2. 848	2. 664
0 00 6B1	P F8	MONW					
0 99 CONC.							
0 09 12: 00: 23					5. 573	5. 336	5. 099
0 00 6B2	P F8	MONW					
0 99 TOP OF PIPE							
0 09 12: 00: 55					2. 869	2. 638	2. 407
0 00 6B3	P F8	MONW					
0 99 TOP OF PVC							
0 09 12: 01: 21					3. 222	2. 990	2. 758
0 00 TP37	P F8	NL-TP41					
0 09 12: 04: 03					4. 720	4. 570	4. 420
S 00 S39	P G8						
S 01 12: 04: 16	12/08/95	1. 000					
0 00 TP37	P F8	NL-TP41					
0 09 12: 05: 53					4. 670	4. 520	4. 370
0 00 TP38	P F8	NL-TP50					
0 09 12: 06: 57					5. 506	5. 182	4. 858
S 00 S40	P G8						

88 Adjustment BMPALM.txt

S 01	12: 07: 03	12/08/95	1. 000					
0 00	TP38			P F8	NL-TP50			
0 09	12: 32: 24					5. 855	5. 112	4. 369
0 00	TP39			P F8	NL-TP51			
0 09	12: 38: 02					5. 735	4. 737	3. 739
S 00	S41			P	G8			
S 01	12: 38: 07	12/08/95	1. 000					
0 00	TP39			P F8	NL-TP51			
0 09	12: 42: 11					5. 901	4. 749	3. 597
0 00	TP40			P F8	NL-TP52			
0 09	12: 45: 24					5. 786	4. 771	3. 756
S 00	S42			P	G8			
S 01	12: 45: 29	12/08/95	1. 000					
0 00	TP40			P F8	NL-TP52			
0 09	12: 51: 13					5. 937	4. 461	2. 985
0 00	TP41			P F8	NL-TP53			
0 09	12: 54: 56					6. 185	4. 904	3. 623
S 00	S43			P	G8			
S 01	12: 54: 59	12/08/95	1. 000					
0 00	TP41			P F8	NL-TP53			
0 09	13: 01: 40					6. 789	5. 487	4. 185
0 00	TP42			P F8	NL-TP54			
0 09	13: 06: 06					6. 460	5. 170	3. 880
S 00	S44			P	G8			
S 01	13: 06: 11	12/08/95	1. 000					
0 00	TP42			P F8	NL-TP54			
0 09	13: 10: 33					6. 237	4. 937	3. 637
0 00	TP43			P F8	NL-TP55			
0 09	13: 13: 56					5. 734	4. 488	3. 242
S 00	S45			P	G8			
S 01	13: 14: 02	12/08/95	1. 000					
0 00	TP43			P F8	NL-TP55			
0 09	13: 18: 18					7. 048	5. 776	4. 504
0 00	TP44			P F8	NL-TP56			
0 09	13: 21: 50					7. 108	5. 853	4. 598
S 00	S46			P	G8			
S 01	13: 21: 56	12/08/95	1. 000					
0 00	TP44			P F8	NL-TP56			
0 09	13: 26: 08					5. 958	4. 606	3. 254
0 00	TP45			P F8	NL-TP57			
0 09	13: 29: 36					6. 220	4. 845	3. 470
S 00	S47			P	G8			
S 01	13: 29: 42	12/08/95	1. 000					
0 00	TP45			P F8	NL-TP57			
0 09	13: 33: 33					6. 647	5. 462	4. 277
0 00	TP46			P F8	NL-TP58			
0 09	13: 37: 44					6. 328	4. 950	3. 572
S 00	S48			P	G8			
S 01	13: 37: 48	12/08/95	1. 000					
0 00	TP46			P F8	NL-TP58			
0 09	13: 42: 14					5. 976	4. 672	3. 368
0 00	TP47			P F8	NL-TP59			
0 09	13: 48: 16					6. 392	5. 061	3. 730
S 00	S49			P	G8			
S 01	13: 48: 21	12/08/95	1. 000					
0 00	TP47			P F8	NL-TP59			
0 09	13: 53: 29					6. 333	4. 850	3. 367
0 00	TP48			P F8	NL-TP60			
0 09	13: 57: 18					6. 035	4. 741	3. 447
S 00	S50			P	G8			
S 01	13: 57: 22	12/08/95	1. 000					
0 00	TP48			P F8	NL-TP60			
0 09	14: 01: 25					5. 755	4. 463	3. 171
0 00	TP49			P F8	NL-TP61			
0 09	14: 04: 53					5. 716	4. 412	3. 108
S 00	S51			P	G8			
S 01	14: 04: 56	12/08/95	1. 000					
0 00	TP49			P F8	NL-TP61			
0 09	14: 08: 36					5. 924	4. 711	3. 498
0 00	TP50			P F8	NL-TP62			

88 Adjustment BMPALM.txt

0 09 14: 17: 34					6. 063	4. 759	3. 455
S 00 S52				P G8			
S 01 14: 17: 37	12/08/95	1. 000					
0 00 TP50				P F8 NL-TP62			
0 09 14: 21: 43					6. 183	4. 861	3. 539
0 00 TP51				P F8 NL-TP63			
0 09 14: 24: 52					5. 996	4. 684	3. 372
S 00 S53				P G8			
S 01 14: 24: 56	12/08/95	1. 000					
0 00 TP51				P F8 NL-TP63			
0 09 14: 29: 21					5. 851	4. 556	3. 261
0 00 TP52				P F8 NL-TP64			
0 09 14: 32: 55					6. 296	5. 011	3. 726
S 00 S54				P G8			
S 01 14: 33: 00	12/08/95	1. 000					
0 00 TP52				P F8 NL-TP64			
0 09 14: 36: 51					6. 521	5. 267	4. 013
OD00 TP53				P F8 NL-TP65			
OD09 14: 40: 22					3. 917	2. 851	1. 785
S 00 S55				P G8			
S 01 14: 40: 26	12/08/95	1. 000					
OD00 TP53				P F8 NL-TP65			
OD09 14: 44: 04					6. 746	5. 453	4. 160
S 00 S55				P G8			
S 01 15: 00: 33	12/08/95	1. 000					
0 00 TP52				P F8 NL-TP64			
0 09 15: 06: 03					6. 857	5. 604	4. 351
0 00 TP53				P F8 NL-TP65			
0 09 15: 09: 57					4. 257	3. 191	2. 125
S 00 S56				P G8			
S 01 15: 10: 03	12/08/95	1. 000					
0 00 TP53				P F8 NL-TP65			
0 09 15: 13: 21					6. 678	5. 382	4. 086
0 00 TP54				P F8 NL-TP66			
0 09 15: 16: 13					7. 419	6. 078	4. 737
S 00 S57				P G8			
S 01 15: 16: 16	12/08/95	1. 000					
0 00 TP54				P F8 NL-TP66			
0 09 15: 18: 36					7. 059	5. 748	4. 437
0 00 TP55				P F8 NL-TP67			
0 09 15: 21: 04					7. 228	5. 863	4. 498
S 00 S58				P G8			
S 01 15: 21: 07	12/08/95	1. 000					
0 00 TP55				P F8 NL-TP67			
0 09 15: 26: 22					8. 866	7. 373	5. 880
0 00 TP56				P F8 NL-TP68			
0 09 15: 35: 35					6. 739	5. 147	3. 555
S 00 S59				P G8			
S 01 15: 35: 40	12/08/95	1. 000					
0 00 TP56				P F8 NL-TP68			
0 09 15: 38: 14					4. 671	3. 378	2. 085
0 00 TP57				P F8 NL-TP69			
0 09 15: 40: 12					5. 385	4. 108	2. 831
S 00 S60				P G8			
S 01 15: 40: 19	12/08/95	1. 000					
0 00 TP57				P F8 NL-TP69			
0 09 15: 42: 11					5. 724	4. 430	3. 136
0 00 TP58				P F8 NL-TP70			
0 09 15: 44: 29					6. 602	5. 303	4. 004
S 00 S61				P G8			
S 01 15: 44: 36	12/08/95	1. 000					
0 00 TP58				P F8 NL-TP70			
0 09 15: 46: 36					7. 024	5. 719	4. 414
0 00 TP59				P F8 NL-TP71			
0 09 15: 47: 58					6. 346	5. 057	3. 768
S 00 S62				P G8			
S 01 15: 48: 04	12/08/95	1. 000					
0 00 TP59				P F8 NL-TP71			
0 09 15: 50: 47					5. 470	4. 180	2. 890
0 00 TP60				P F8 NL-TP72			

88 Adjustment BMPALM.txt

O 09 15: 52: 05					5. 402	4. 096	2. 790
S 00 S63				P G8			
S 01 15: 52: 09	12/08/95	1. 000					
O 00 TP60				P F8 NL-TP72			
O 09 15: 54: 06					5. 832	4. 564	3. 296
O 00 TP61				P F8 NL-TP73			
O 09 15: 55: 18					6. 337	5. 042	3. 747
S 00 S64				P G8			
S 01 15: 55: 22	12/08/95	1. 000					
O 00 TP61				P F8 NL-TP73			
O 09 15: 57: 41					6. 713	5. 375	4. 037
O 00 TP62				P F8 NL-TP74			
O 09 16: 04: 40					6. 804	5. 582	4. 360
S 00 S65				P G8			
S 01 16: 04: 44	12/08/95	1. 000					
O 00 TP62				P F8 NL-TP74			
O 09 16: 06: 27					6. 892	5. 610	4. 328
O 00 TP63				P F8 NL-TP75			
O 09 16: 08: 17					6. 038	4. 815	3. 592
S 00 S66				P G8			
S 01 16: 08: 21	12/08/95	1. 000					
O 00 TP63				P F8 NL-TP75			
O 09 16: 11: 22					5. 217	4. 007	2. 797
O 00 TP64				P F8 NL-TP76			
O 09 16: 12: 44					5. 306	4. 165	3. 024
S 00 S67				P G8			
S 01 16: 12: 48	12/08/95	1. 000					
O 00 TP64				P F8 NL-TP76			
O 09 16: 15: 29					6. 767	5. 583	4. 399
O 00 TP65				P F8 NL-TP77			
O 09 16: 16: 49					6. 645	5. 482	4. 319
S 00 S68				P G8			
S 01 16: 16: 53	12/08/95	1. 000					
O 00 TP65				P F8 NL-TP77			
O 09 16: 19: 06					8. 249	7. 118	5. 987
O 00 TP66				P F8 NL-TP78			
O 09 16: 21: 32					8. 880	7. 656	6. 432
S 00 S69				P G8			
S 01 16: 21: 37	12/08/95	1. 000					
O 00 TP66				P F8 NL-TP78			
O 09 16: 25: 58					6. 016	4. 868	3. 720
O 00 TP67				P F8 NL-TP79			
O 09 16: 28: 18					5. 673	4. 478	3. 283
S 00 S70				P G8			
S 01 16: 28: 22	12/08/95	1. 000					
O 00 TP67				P F8 NL-TP79			
O 09 16: 30: 57					5. 593	4. 269	2. 945
O 00 TP68				P F8 NL-TP80			
O 09 16: 33: 35					5. 717	4. 358	2. 999
S 00 S71				P G8			
S 01 16: 33: 41	12/08/95	1. 000					
O 00 TP68				P F8 NL-TP80			
O 09 16: 36: 32					4. 881	4. 410	3. 939
O 00 BM2	8-ES			P F8 STMD			
O 09 16: 37: 57					4. 321	4. 047	3. 773
R 00 00: 00: 00	12/31/99						
R 99 TAPE OBSERVATION DATA STARTS HERE							
C 00 00: 00: 00	12/31/99						
C 99 DUMMY TAPE CALIBRATION TO RE-INITIALIZE COLLIMATION TO ZERO							
C 01 TAPING	TAPING				10	99	100
C 03 00: 00: 00				D	0	0	0.0 90 0 0.0
C 03 00: 00: 00				D	0	0	0.0 90 0 0.0
C 03 00: 00: 00				R	180	0	0.0 270 0 0.0
C 03 00: 00: 00				R	180	0	0.0 270 0 0.0
R 00 00: 00: 00	12/31/99						
R 99 TAPE OBSERVATION DATA ENDS HERE							
R 00 00: 00: 00	12/31/99						
R 99 TAPE TRAVERSE DATA (I. E. CHAINS) START HERE							
R 00 00: 00: 00	12/31/99						
R 99 TAPE TRAVERSE DATA (I. E. CHAINS) ENDS HERE							

R 00 00:00:00 12/31/99
R 99 CHAIN DATA STARTS HERE
R 00 00:00:00 12/31/99
R 99 CHAIN DATA ENDS HERE
R 00 00:00:00 12/31/99
R 99 PREFIX DATA STARTS HERE
P 00
P 01 S71, BM2, TP68, C1, 6A3, 6B3
↑F2D 1¶"ñ↑↑^"D €α α x**→-+ "Ò"¼↑↑^"D¶-D |@Di+j@DDâ" x¼↑↑^"D
R 00 00:00:00 12/31/99
R 99 PREFIX DATA ENDS HERE

BMPALM. 1D
MISCLOSURE OF MULTIPLE ELEV. DIFFERENCE MEASUREMENTS
STATIONS MISCLOSURE
END OF MISCLOSURE REPORT

78 OF 148 STATIONS IDENTIFIED AS VERTICAL SIDESHOTS
BAND IS 2 STATIONS
LEVEL NETWORK ADJUSTMENT

NUMBER OF BENCHMARKS = 2
NUMBER OF STATIONS = 70
NUMBER OF MEASUREMENTS = 70
NUMBER OF REQUIRED TERMS FOR NORMAL EQUATIONS = 208

RESULTS OF ADJUSTMENT

BENCHMARK ELEVATION RESIDUALS

STATION	INPUT ELEV.	ADJUSTED ELEV.	ERROR EST.	RESIDUAL
BM1	6.170	6.170	.000	.000 (.0)
BM2	4.940	4.940	.000	.000 (.0)

BENCHMARK RMS ERROR = .000 SNOOP RMS = .0
MAX. BENCHMARK RESIDUAL AT STATION BM1 OF .000

RESIDUALS

FROM	TO	MEASURED	RESIDUAL	EST. ERROR
BM1	TP1	.027	.002 (.2)	.010
TP1	TP2	-1.071	.002 (.2)	.010
TP2	TP3	-.195	.002 (.2)	.010
TP3	TP4	.020	.002 (.2)	.010
TP4	TP5	-.178	.002 (.2)	.010
TP5	BM2	.157	.002 (.2)	.010
BM2	TP6	-.358	.000 (.0)	.010
TP6	TP7	.082	.000 (.0)	.010
TP7	TP8	-.383	.000 (.0)	.010
TP8	TP9	.541	.000 (.0)	.010
TP9	TP10	-.105	.000 (.0)	.010
TP10	TP11	.161	.000 (.0)	.010
TP11	TP12	-.785	.000 (.0)	.010
TP12	TP13	.200	.000 (.0)	.010
TP13	TP14	.482	.000 (.0)	.010
TP14	TP15	-.094	.000 (.0)	.010
TP15	TP16	-.677	.000 (.0)	.010
TP16	TP17	.879	.000 (.0)	.010
TP17	TP18	.740	.000 (.0)	.010
TP18	TP19	-2.180	.000 (.0)	.010
TP19	TP20	.089	.000 (.0)	.010
TP20	TP21	.689	.000 (.0)	.010
TP21	TP22	-2.420	.000 (.0)	.010
TP22	TP23	.456	.000 (.0)	.010
TP23	TP24	-.163	.000 (.0)	.010
TP24	TP25	.019	.000 (.0)	.010
TP25	TP26	-.040	.000 (.0)	.010

88 Adjustment BMPALM.txt

TP26	TP27	-.123	.000	(.0)	.010
TP27	TP28	.387	.000	(.0)	.010
TP28	TP29	-.515	.000	(.0)	.010
TP29	TP30	.240	.000	(.0)	.010
TP30	TP31	.056	.000	(.0)	.010
TP31	TP32	-.434	.000	(.0)	.010
TP32	TP33	-.289	.000	(.0)	.010
TP33	TP34	.434	.000	(.0)	.010
TP34	TP35	.020	.000	(.0)	.010
TP35	TP36	-.385	.000	(.0)	.010
TP36	TP37	.657	.000	(.0)	.010
TP37	TP38	-.662	.000	(.0)	.010
TP38	TP39	.375	.000	(.0)	.010
TP39	TP40	-.022	.000	(.0)	.010
TP40	TP41	-.443	.000	(.0)	.010
TP41	TP42	.317	.000	(.0)	.010
TP42	TP43	.449	.000	(.0)	.010
TP43	TP44	-.077	.000	(.0)	.010
TP44	TP45	-.239	.000	(.0)	.010
TP45	TP46	.512	.000	(.0)	.010
TP46	TP47	-.389	.000	(.0)	.010
TP47	TP48	.109	.000	(.0)	.010
TP48	TP49	.051	.000	(.0)	.010
TP49	TP50	-.048	.000	(.0)	.010
TP50	TP51	.177	.000	(.0)	.010
TP51	TP52	-.455	.000	(.0)	.010
TP52	TP53	2.413	.000	(.0)	.010
TP53	TP54	-.696	.000	(.0)	.010
TP54	TP55	-.115	.000	(.0)	.010
TP55	TP56	2.226	.000	(.0)	.010
TP56	TP57	-.730	.000	(.0)	.010
TP57	TP58	-.873	.000	(.0)	.010
TP58	TP59	.662	.000	(.0)	.010
TP59	TP60	.084	.000	(.0)	.010
TP60	TP61	-.478	.000	(.0)	.010
TP61	TP62	-.207	.000	(.0)	.010
TP62	TP63	.795	.000	(.0)	.010
TP63	TP64	-.158	.000	(.0)	.010
TP64	TP65	.101	.000	(.0)	.010
TP65	TP66	-.538	.000	(.0)	.010
TP66	TP67	.390	.000	(.0)	.010
TP67	TP68	-.089	.000	(.0)	.010
TP68	BM2	.363	.000	(.0)	.010

ELEV. DIFF. RMS ERROR = .001 SNOOP RMS = .1
 MAX. ELEV. DIFF. RESIDUAL TP2 - TP3 OF .002

95% CONFIDENCE F STATISTIC STANDARD ERROR MULTIPLIER FOR 2 D.F. IS 6.16

STATION	ADJUSTED ELEV.	STANDARD ERROR
BM1	6.170	.000
TP1	6.199	.018
TP2	5.129	.022
TP3	4.936	.024
TP4	4.958	.022
TP5	4.781	.018
BM2	4.940	.000
TP6	4.582	.019
TP68	4.577	.019
TP7	4.664	.027
TP67	4.666	.027
TP8	4.281	.033
TP66	4.275	.033
TP9	4.823	.038
TP65	4.813	.038
TP10	4.718	.042
TP64	4.712	.042
TP11	4.879	.045

88 Adjustment BMPALM.txt

TP63	4. 870	. 045
TP12	4. 094	. 048
TP62	4. 074	. 048
TP13	4. 294	. 051
TP61	4. 281	. 051
TP14	4. 777	. 054
TP60	4. 759	. 054
TP15	4. 683	. 056
TP59	4. 675	. 056
TP16	4. 006	. 059
TP58	4. 013	. 059
TP17	4. 885	. 061
TP57	4. 885	. 061
TP18	5. 626	. 063
TP56	5. 615	. 063
TP19	3. 446	. 064
TP55	3. 389	. 064
TP20	3. 535	. 066
TP54	3. 504	. 066
TP21	4. 224	. 067
TP53	4. 199	. 067
TP22	1. 804	. 069
TP52	1. 786	. 069
TP23	2. 261	. 070
TP51	2. 241	. 070
TP24	2. 098	. 071
TP50	2. 064	. 071
TP25	2. 117	. 072
TP49	2. 112	. 072
TP26	2. 077	. 073
TP48	2. 060	. 073
TP27	1. 955	. 074
TP47	1. 951	. 074
TP28	2. 342	. 075
TP46	2. 340	. 075
TP29	1. 827	. 075
TP45	1. 828	. 075
TP30	2. 067	. 076
TP44	2. 066	. 076
TP31	2. 123	. 076
TP43	2. 143	. 076
TP32	1. 690	. 077
TP42	1. 694	. 077
TP33	1. 401	. 077
TP41	1. 377	. 077
TP34	1. 835	. 077
TP40	1. 820	. 077
TP35	1. 855	. 078
TP39	1. 841	. 078
TP36	1. 471	. 078
TP38	1. 466	. 078
TP37	2. 128	. 078

STANDARD ERROR OF UNIT WEIGHT IS . 315
 WITH 2 DEGREES OF FREEDOM

CHI SQUARED TEST ON ANALYSIS
 . 159 < . 315 < 1. 731
 (LOW) (HIGH)
 PASSES AT THE 5 % SIGNIFICANCE LEVEL

BMPALM. CHL
 PROJECT NAME IS BMPALM

ELEVATION CLOSURE REPORT
 SUM OF DISTANCES ALONG SURVEY IS 2805. 700
 CLOSURE IN ELEVATION (Z) = . 010
 CLOSURE PER STATION = . 002
 PRECISION = 1 / 280570.

STATION	ELEVATION (Z)
BM1	6.170
TP1	6.199
TP2	5.129
TP3	4.936
TP4	4.958
TP5	4.781
BM2	4.940

ELEVATION CLOSURE REPORT

SUM OF DISTANCES ALONG SURVEY IS 31003.500

CLOSURE IN ELEVATION (Z) = .014

CLOSURE PER STATION = .000

PRECISION = 1 / 2214536.

STATION	ELEVATION (Z)
BM2	4.940
TP6	4.582
TP7	4.664
TP8	4.281
TP9	4.823
TP10	4.718
TP11	4.879
TP12	4.094
TP13	4.294
TP14	4.777
TP15	4.683
TP16	4.006
TP17	4.885
TP18	5.626
TP19	3.446
TP20	3.535
TP21	4.224
TP22	1.804
TP23	2.261
TP24	2.098
TP25	2.117
TP26	2.077
TP27	1.955
TP28	2.342
TP29	1.827
TP30	2.067
TP31	2.123
TP32	1.690
TP33	1.401
TP34	1.835
TP35	1.855
TP36	1.471
TP37	2.128
TP38	1.466
TP39	1.841
TP40	1.820
TP41	1.377
TP42	1.694
TP43	2.143
TP44	2.066
TP45	1.828
TP46	2.340
TP47	1.951
TP48	2.060
TP49	2.112
TP50	2.064
TP51	2.241
TP52	1.786
TP53	4.199
TP54	3.504
TP55	3.389
TP56	5.615
TP57	4.885
TP58	4.013
TP59	4.675

88 Adjustment BMPALM.txt

TP60	4. 759
TP61	4. 281
TP62	4. 074
TP63	4. 870
TP64	4. 712
TP65	4. 813
TP66	4. 275
TP67	4. 666
TP68	4. 577
BM2	4. 940

TOTAL LENGTH OF EVALUATED SURVEY DISTANCE = 6. 403 MILES
 OVERALL PRECISION = 1 / 1408717.

BMPALM. CTL

G 00	BMPALM			
G 01	BM1	V314		F88
G 02			6. 1700	. 0001
G 01	BM2	8ES		F88
G 02			4. 9400	. 0001

BMPALM. XYZ

G 00	BMPALM. XYZ			
G 01	BM1	V314	P F8 STMD	F88
G 02			6. 170	. 000
G 01	TP1		P F8	F88
G 02			6. 199	. 018
G 01	TP2		P F8	F88
G 02			5. 129	. 022
G 01	TP3		P F8	F88
G 02			4. 936	. 024
G 01	TP4		P F8	F88
G 02			4. 958	. 022
G 01	TP5		P F8	F88
G 02			4. 781	. 018
G 01	BM2	8-ES	P F8 STMD	F88
G 02			4. 940	. 000
G 01	TP6		P F8 NL-TP10	F88
G 02			4. 582	. 019
G 01	TP7		P F8 NL-TP11	F88
G 02			4. 664	. 027
G 01	TP8		P F8 NL-TP12	F88
G 02			4. 281	. 033
G 01	TP9		P F8 NL-TP13	F88
G 02			4. 823	. 038
G 01	TP10		P F8 NL-TP14	F88
G 02			4. 718	. 042
G 01	TP11		P F8 NL-TP15	F88
G 02			4. 879	. 045
G 01	TP12		P F8 NL-TP16	F88
G 02			4. 094	. 048
G 01	TP13		P F8 NL-TP17	F88
G 02			4. 294	. 051
G 01	TP14		P F8 NL-TP18	F88
G 02			4. 777	. 054
G 01	TP15		P F8 NL-TP19	F88
G 02			4. 683	. 056
G 01	TP16		P F8 NL-TP20	F88
G 02			4. 006	. 059
G 01	TP17		P F8 NL-TP21	F88
G 02			4. 885	. 061
G 01	TP18		P F8 NL-TP22	F88
G 02			5. 626	. 063
G 01	C1		P F8 NL-C3	F88
G 02			5. 061	
G 01	TP19		P F8 NL-TP23	F88
G 02			3. 446	. 064

88 Adjustment BMPALM.txt

G 01	TP20	P F8	NL-TP24	F88
G 02			3. 535	. 066
G 01	TP21	P F8	NL-TP25	F88
G 02			4. 224	. 067
G 01	TP22	P F8	NL-TP26	F88
G 02			1. 804	. 069
G 01	TP23	P F8	NL-TP27	F88
G 02			2. 261	. 070
G 01	TP24	P F8	NL-TP28	F88
G 02			2. 098	. 071
G 01	TP25	P F8	NL-TP29	F88
G 02			2. 117	. 072
G 01	TP26	P F8	NL-TP30	F88
G 02			2. 077	. 073
G 01	TP27	P F8	NL-TP31	F88
G 02			1. 955	. 074
G 01	TP28	P F8	NL-TP32	F88
G 02			2. 342	. 075
G 01	TP29	P F8	NL-TP33	F88
G 02			1. 827	. 075
G 01	TP30	P F8	NL-TP34	F88
G 02			2. 067	. 076
G 01	TP31	P F8	NL-TP35	F88
G 02			2. 123	. 076
G 01	TP32	P F8	NL-TP36	F88
G 02			1. 690	. 077
G 01	TP33	P F8	NL-TP37	F88
G 02			1. 401	. 077
G 01	TP34	P F8	NL-TP38	F88
G 02			1. 835	. 077
G 01	TP35	P F8	NL-TP39	F88
G 02			1. 855	. 078
G 01	TP36	P F8	NL-TP40	F88
G 02			1. 471	. 078
G 01	6A1	P F8	MONW	F88
G 99	CONC.			
G 02			1. 539	
G 01	6A2	P F8	MONW	F88
G 99	TOP OF PIPE			
G 02			4. 243	
G 01	6A3	P F8	MONW	F88
G 99	TOP OF PVC			
G 02			3. 850 6B	
G 01	6B1	P F8	MONW	F88
G 99	CONC.			
G 02			1. 362	
G 01	6B2	P F8	MONW	F88
G 99	TOP OF PIPE			
G 02			4. 060	
G 01	6B3	P F8	MONW	F88
G 99	TOP OF PVC			
G 02			3. 708 6A	
G 01	TP37	P F8	NL-TP41	F88
G 02			2. 128	. 078
G 01	TP38	P F8	NL-TP50	F88
G 02			1. 466	. 078
G 01	TP39	P F8	NL-TP51	F88
G 02			1. 841	. 078
G 01	TP40	P F8	NL-TP52	F88
G 02			1. 820	. 077
G 01	TP41	P F8	NL-TP53	F88
G 02			1. 377	. 077
G 01	TP42	P F8	NL-TP54	F88
G 02			1. 694	. 077
G 01	TP43	P F8	NL-TP55	F88
G 02			2. 143	. 076
G 01	TP44	P F8	NL-TP56	F88
G 02			2. 066	. 076
G 01	TP45	P F8	NL-TP57	F88
G 02			1. 828	. 075

		88 Adjustment BMPALM.txt		
G 01	TP46	P F8	NL-TP58	F88
G 02			2. 340	. 075
G 01	TP47	P F8	NL-TP59	F88
G 02			1. 951	. 074
G 01	TP48	P F8	NL-TP60	F88
G 02			2. 060	. 073
G 01	TP49	P F8	NL-TP61	F88
G 02			2. 112	. 072
G 01	TP50	P F8	NL-TP62	F88
G 02			2. 064	. 071
G 01	TP51	P F8	NL-TP63	F88
G 02			2. 241	. 070
G 01	TP52	P F8	NL-TP64	F88
G 02			1. 786	. 069
G 01	TP53	P F8	NL-TP65	F88
G 02			4. 199	. 067
G 01	TP54	P F8	NL-TP66	F88
G 02			3. 504	. 066
G 01	TP55	P F8	NL-TP67	F88
G 02			3. 389	. 064
G 01	TP56	P F8	NL-TP68	F88
G 02			5. 615	. 063
G 01	TP57	P F8	NL-TP69	F88
G 02			4. 885	. 061
G 01	TP58	P F8	NL-TP70	F88
G 02			4. 013	. 059
G 01	TP59	P F8	NL-TP71	F88
G 02			4. 675	. 056
G 01	TP60	P F8	NL-TP72	F88
G 02			4. 759	. 054
G 01	TP61	P F8	NL-TP73	F88
G 02			4. 281	. 051
G 01	TP62	P F8	NL-TP74	F88
G 02			4. 074	. 048
G 01	TP63	P F8	NL-TP75	F88
G 02			4. 870	. 045
G 01	TP64	P F8	NL-TP76	F88
G 02			4. 712	. 042
G 01	TP65	P F8	NL-TP77	F88
G 02			4. 813	. 038
G 01	TP66	P F8	NL-TP78	F88
G 02			4. 275	. 033
G 01	TP67	P F8	NL-TP79	F88
G 02			4. 666	. 027
G 01	TP68	P F8	NL-TP80	F88
G 02			4. 577	. 019

29 Adjustment BMPALM.txt

BMPALM. OBS

Station	Date	Time	Value	Code	Unit	Value	Code	Unit	Value	Code	Unit
H 00	BMPALM										
C 00	08: 59: 24	12/07/95	90	30.0	000001	CC	TC	GF			
C 01	WILD	T2000		90788				100			
C 13	09: 14: 15	4.44	4.54	4.82	4.72						
S 00	S1			P	F8						
S 01	09: 16: 58	12/07/95	1.000								
C 00	09: 50: 39	12/07/95	90	30.0	000001	CC	TC	GF			
C 01	WILD	T2000		90788				100			
C 00	09: 50: 58	12/07/95	90	30.0	000001	CC	TC	GF			
C 01	WILD	T2000		90788				100			
S 00	S1			P	F8						
S 01	09: 51: 41	12/07/95	1.000								
C 00	09: 52: 53	12/07/95	90	30.0	000001	CC	TC	GF			
C 01	WILD	T2000		90788				100			
S 00	S1			P	F8						
S 01	09: 53: 30	12/07/95	1.000								
C 00	09: 53: 54	12/07/95	90	30.0	000001	CC	TC	GF			
C 01	WILD	NA2000		90788				100			
C 00	09: 54: 22	12/07/95	90	30.0	000001	CC	TC	GF			
C 01	WILD	NA2000		90788				100			
C 13	09: 54: 49	4.44	4.54	4.82	4.92						
S 00	S1			P	F8						
S 01	09: 55: 23	12/07/95	1.000								
O 00	BM1	V314		P	F8	STMD					
O 09	09: 57: 13								3.757	3.406	3.055
O 00	TP1			P	F8						
O 09	09: 59: 39								4.352	3.379	2.406
S 00	S2			P	F8						
S 01	09: 59: 43	12/07/95	1.000								
O 00	TP1			P	F8						
O 09	10: 13: 30								5.355	4.013	2.671
O 00	TP2			P	F8						
O 09	10: 20: 35								6.396	5.084	3.772
S 00	S3			P	F8						
S 01	10: 20: 42	12/07/95	1.000								
O 00	TP2			P	F8						
O 09	10: 23: 41								6.037	4.708	3.379
O 00	TP3			P	F8						
O 09	10: 25: 11								6.218	4.903	3.588
S 00	S4			P	F8						
S 01	10: 25: 19	12/07/95	1.000								
O 00	TP3			P	F8						
O 09	10: 27: 54								6.586	5.257	3.928
O 00	TP4			P	F8						
O 09	10: 30: 05								6.554	5.237	3.920
S 00	S5			P	F8						
S 01	10: 30: 10	12/07/95	1.000								
O 00	TP4			P	F8						
O 09	10: 36: 11								5.885	4.546	3.207
O 00	TP5			P	F8						
O 09	10: 42: 05								6.053	4.724	3.395
S 00	S6			P	F8						
S 01	10: 42: 11	12/07/95	1.000								
O 00	TP5			P	F8						
O 09	10: 45: 28								5.484	4.219	2.954
O 00	BM2	8-ES		P	F8	STMD					
O 09	10: 48: 26								4.860	4.062	3.264
C 00	07: 12: 42	12/08/95	92	30.0	000001	CC	TC	GF			
C 01	WILD	NA2000		90788				100			
C 13	07: 13: 51	4.76	4.86	5.08	4.99						
S 00	S7			P	G8						
S 01	07: 15: 53	12/08/95	1.000								
O 00	BM2	8-ES		P	F8	STMD					
O 09	07: 26: 42								4.454	4.176	3.898
O 00	TP6			P	F8	NL-TP10					
O 09	07: 27: 51								5.005	4.534	4.063
S 00	S8			P	G8						
S 01	07: 27: 55	12/08/95	1.000								
O 00	TP6			P	F8	NL-TP10					

29 Adjustment BMPALM.txt

0 09 07: 38: 15					5. 725	4. 358	2. 990
0 00 TP7				P F8 NL-TP11			
0 09 07: 40: 25					5. 596	4. 276	2. 956
S 00 S9				P G8			
S 01 07: 40: 32	12/08/95	1. 000					
0 00 TP7				P F8 NL-TP11			
0 09 07: 47: 17					5. 875	4. 679	3. 480
0 00 TP8				P F8 NL-TP12			
0 09 07: 50: 19					6. 207	5. 061	3. 915
S 00 S10				P G8			
S 01 07: 50: 26	12/08/95	1. 000					
0 00 TP8				P F8 NL-TP12			
0 09 07: 54: 40					8. 829	7. 606	6. 383
0 00 TP9				P F8 NL-TP13			
0 09 07: 56: 52					8. 199	7. 065	5. 931
S 00 S11				P G8			
S 01 07: 56: 58	12/08/95	1. 000					
0 00 TP9				P F8 NL-TP13			
0 09 08: 00: 15					6. 646	5. 487	4. 328
0 00 TP10				P F8 NL-TP14			
0 09 08: 02: 50					6. 779	5. 592	4. 405
S 00 S12				P G8			
S 01 08: 02: 54	12/08/95	1. 000					
0 00 TP10				P F8 NL-TP14			
0 09 08: 07: 46					5. 462	4. 320	3. 178
0 00 TP11				P F8 NL-TP15			
0 09 08: 09: 42					5. 369	4. 159	2. 949
S 00 S13				P G8			
S 01 08: 09: 46	12/08/95	1. 000					
0 00 TP11				P F8 NL-TP15			
0 09 08: 13: 38					6. 283	5. 058	3. 833
0 00 TP12				P F8 NL-TP16			
0 09 08: 15: 56					7. 124	5. 843	4. 562
S 00 S14				P G8			
S 01 08: 16: 00	12/08/95	1. 000					
0 00 TP12				P F8 NL-TP16			
0 09 08: 22: 08					6. 970	5. 753	4. 530
0 00 TP13				P F8 NL-TP17			
0 09 08: 24: 50					6. 890	5. 551	4. 212
S 00 S15				P G8			
S 01 08: 24: 55	12/08/95	1. 000					
0 00 TP13				P F8 NL-TP17			
0 09 08: 29: 10					6. 506	5. 212	3. 918
0 00 TP14				P F8 NL-TP18			
0 09 08: 33: 48					6. 000	4. 730	3. 460
S 00 S16				P G8			
S 01 08: 33: 52	12/08/95	1. 000					
0 00 TP14				P F8 NL-TP18			
0 09 08: 39: 21					5. 659	4. 352	3. 045
0 00 TP15				P F8 NL-TP19			
0 09 08: 43: 43					5. 735	4. 446	3. 157
S 00 S17				P G8			
S 01 08: 43: 48	12/08/95	1. 000					
0 00 TP15				P F8 NL-TP19			
0 09 08: 46: 58					6. 440	5. 155	3. 870
0 00 TP16				P F8 NL-TP20			
0 09 08: 51: 37					7. 141	5. 832	4. 523
S 00 S18				P G8			
S 01 08: 51: 41	12/08/95	1. 000					
0 00 TP16				P F8 NL-TP20			
0 09 08: 54: 25					6. 910	5. 609	4. 308
0 00 TP17				P F8 NL-TP21			
0 09 08: 57: 21					6. 022	4. 730	3. 438
S 00 S19				P G8			
S 01 08: 57: 26	12/08/95	1. 000					
0 00 TP17				P F8 NL-TP21			
0 09 08: 59: 38					5. 659	4. 370	3. 081
0 00 TP18				P F8 NL-TP22			
0 09 09: 01: 54					4. 910	3. 630	2. 350
S 00 S20				P G8			

29 Adjustment BMPALM.txt

S 01	09: 01: 59	12/08/95	1.000					
O 00	TP18			P F8	NL-TP22			
O 09	09: 06: 26					7.486	5.890	4.294
O 00	C1			P F8	NL-C3			
O 09	09: 08: 22					6.968	6.455	5.942
O 00	TP19			P F8	NL-TP23			
O 09	09: 12: 33					9.560	8.070	6.580
S 00	S21			P G8				
S 01	09: 12: 59	12/08/95	1.000					
O 00	TP19			P F8	NL-TP23			
O 09	09: 17: 04					7.391	6.027	4.663
O 00	TP20			P F8	NL-TP24			
O 09	09: 19: 40					7.249	5.938	4.627
S 00	S22			P G8				
S 01	09: 19: 44	12/08/95	1.000					
O 00	TP20			P F8	NL-TP24			
O 09	09: 22: 10					7.474	6.131	4.788
O 00	TP21			P F8	NL-TP25			
O 09	09: 25: 29					6.735	5.442	4.149
S 00	S23			P G8				
S 01	09: 25: 35	12/08/95	1.000					
O 00	TP21			P F8	NL-TP25			
O 09	09: 28: 53					3.920	2.853	1.786
O 00	TP22			P F8	NL-TP26			
O 09	09: 32: 41					6.527	5.273	4.019
S 00	S24			P G8				
S 01	09: 32: 48	12/08/95	1.000					
O 00	TP22			P F8	NL-TP26			
O 09	09: 35: 23					6.387	5.102	3.817
O 00	TP23			P F8	NL-TP27			
O 09	09: 40: 10					5.940	4.646	3.352
S 00	S25			P G8				
S 01	09: 40: 16	12/08/95	1.000					
O 00	TP23			P F8	NL-TP27			
O 09	09: 42: 57					6.012	4.699	3.386
O 00	TP24			P F8	NL-TP28			
O 09	09: 45: 57					6.183	4.862	3.541
S 00	S26			P G8				
S 01	09: 46: 03	12/08/95	1.000					
O 00	TP24			P F8	NL-TP28			
O 09	09: 49: 15					5.989	4.683	3.377
O 00	TP25			P F8	NL-TP29			
O 09	09: 52: 22					5.873	4.664	3.455
S 00	S27			P G8				
S 01	09: 52: 26	12/08/95	1.000					
O 00	TP25			P F8	NL-TP29			
O 09	09: 55: 24					5.822	4.517	3.212
O 00	TP26			P F8	NL-TP30			
O 09	09: 59: 24					5.848	4.557	3.266
S 00	S28			P G8				
S 01	09: 59: 28	12/08/95	1.000					
O 00	TP26			P F8	NL-TP30			
O 09	10: 03: 54					6.150	4.854	3.558
O 00	TP27			P F8	NL-TP31			
O 09	10: 08: 07					6.458	4.977	3.496
S 00	S29			P G8				
S 01	10: 08: 13	12/08/95	1.000					
O 00	TP27			P F8	NL-TP31			
O 09	10: 12: 27					6.472	5.135	3.798
O 00	TP28			P F8	NL-TP32			
O 09	10: 16: 23					6.048	4.748	3.448
S 00	S30			P G8				
S 01	10: 16: 28	12/08/95	1.000					
O 00	TP28			P F8	NL-TP32			
O 09	10: 19: 25					6.316	4.939	3.562
O 00	TP29			P F8	NL-TP33			
O 09	10: 27: 50					6.641	5.454	4.267
S 00	S31			P G8				
S 01	10: 27: 54	12/08/95	1.000					
O 00	TP29			P F8	NL-TP33			

29 Adjustment BMPALM.txt

0 09 10: 32: 04					6. 234	4. 857	3. 480
0 00 TP30				P F8 NL-TP34			
0 09 10: 36: 46					5. 968	4. 617	3. 266
S 00 S32				P G8			
S 01 10: 36: 50	12/08/95	1. 000					
0 00 TP30				P F8 NL-TP34			
0 09 10: 41: 22					7. 402	6. 135	4. 868
0 00 TP31				P F8 NL-TP35			
0 09 10: 45: 38					7. 338	6. 079	4. 820
S 00 S33				P G8			
S 01 10: 45: 42	12/08/95	1. 000					
0 00 TP31				P F8 NL-TP35			
0 09 10: 49: 25					5. 805	4. 560	3. 315
0 00 TP32				P F8 NL-TP36			
0 09 10: 53: 47					6. 293	4. 994	3. 695
S 00 S34				P G8			
S 01 10: 53: 51	12/08/95	1. 000					
0 00 TP32				P F8 NL-TP36			
0 09 11: 01: 29					6. 415	5. 124	3. 833
0 00 TP33				P F8 NL-TP37			
0 09 11: 05: 14					6. 713	5. 413	4. 113
S 00 S35				P G8			
S 01 11: 05: 19	12/08/95	1. 000					
0 00 TP33				P F8 NL-TP37			
0 09 11: 09: 18					6. 386	5. 109	3. 832
0 00 TP34				P F8 NL-TP38			
0 09 11: 15: 23					6. 155	4. 675	3. 195
S 00 S36				P G8			
S 01 11: 15: 28	12/08/95	1. 000					
0 00 TP34				P F8 NL-TP38			
0 09 11: 19: 40					5. 713	4. 695	3. 677
0 00 TP35				P F8 NL-TP39			
0 09 11: 24: 12					5. 825	4. 675	3. 525
S 00 S37				P G8			
S 01 11: 24: 17	12/08/95	1. 000					
0 00 TP35				P F8 NL-TP39			
0 09 11: 30: 44					5. 797	4. 802	3. 807
0 00 TP36				P F8 NL-TP40			
0 09 11: 37: 31					5. 931	5. 187	4. 443
S 00 S38				P G8			
S 01 11: 37: 39	12/08/95	1. 000					
0 00 TP36				P F8 NL-TP40			
0 09 11: 39: 35					5. 552	5. 227	4. 902
0 00 6A1				P F8 MONW			
0 99 CONC.							
0 09 11: 58: 13					5. 336	5. 159	4. 982
0 00 6A2				P F8 MONW			
0 99 TOP OF PIPE							
0 09 11: 58: 58					2. 639	2. 455	2. 271
0 00 6A3				P F8 MONW			
0 99 TOP OF PVC							
0 09 11: 59: 30					3. 032	2. 848	2. 664
0 00 6B1				P F8 MONW			
0 99 CONC.							
0 09 12: 00: 23					5. 573	5. 336	5. 099
0 00 6B2				P F8 MONW			
0 99 TOP OF PIPE							
0 09 12: 00: 55					2. 869	2. 638	2. 407
0 00 6B3				P F8 MONW			
0 99 TOP OF PVC							
0 09 12: 01: 21					3. 222	2. 990	2. 758
0 00 TP37				P F8 NL-TP41			
0 09 12: 04: 03					4. 720	4. 570	4. 420
S 00 S39				P G8			
S 01 12: 04: 16	12/08/95	1. 000					
0 00 TP37				P F8 NL-TP41			
0 09 12: 05: 53					4. 670	4. 520	4. 370
0 00 TP38				P F8 NL-TP50			
0 09 12: 06: 57					5. 506	5. 182	4. 858
S 00 S40				P G8			

29 Adjustment BMPALM.txt

S 01	12: 07: 03	12/08/95	1. 000				
0 00	TP38			P F8	NL-TP50		
0 09	12: 32: 24					5. 855	5. 112 4. 369
0 00	TP39			P F8	NL-TP51		
0 09	12: 38: 02					5. 735	4. 737 3. 739
S 00	S41			P	G8		
S 01	12: 38: 07	12/08/95	1. 000				
0 00	TP39			P F8	NL-TP51		
0 09	12: 42: 11					5. 901	4. 749 3. 597
0 00	TP40			P F8	NL-TP52		
0 09	12: 45: 24					5. 786	4. 771 3. 756
S 00	S42			P	G8		
S 01	12: 45: 29	12/08/95	1. 000				
0 00	TP40			P F8	NL-TP52		
0 09	12: 51: 13					5. 937	4. 461 2. 985
0 00	TP41			P F8	NL-TP53		
0 09	12: 54: 56					6. 185	4. 904 3. 623
S 00	S43			P	G8		
S 01	12: 54: 59	12/08/95	1. 000				
0 00	TP41			P F8	NL-TP53		
0 09	13: 01: 40					6. 789	5. 487 4. 185
0 00	TP42			P F8	NL-TP54		
0 09	13: 06: 06					6. 460	5. 170 3. 880
S 00	S44			P	G8		
S 01	13: 06: 11	12/08/95	1. 000				
0 00	TP42			P F8	NL-TP54		
0 09	13: 10: 33					6. 237	4. 937 3. 637
0 00	TP43			P F8	NL-TP55		
0 09	13: 13: 56					5. 734	4. 488 3. 242
S 00	S45			P	G8		
S 01	13: 14: 02	12/08/95	1. 000				
0 00	TP43			P F8	NL-TP55		
0 09	13: 18: 18					7. 048	5. 776 4. 504
0 00	TP44			P F8	NL-TP56		
0 09	13: 21: 50					7. 108	5. 853 4. 598
S 00	S46			P	G8		
S 01	13: 21: 56	12/08/95	1. 000				
0 00	TP44			P F8	NL-TP56		
0 09	13: 26: 08					5. 958	4. 606 3. 254
0 00	TP45			P F8	NL-TP57		
0 09	13: 29: 36					6. 220	4. 845 3. 470
S 00	S47			P	G8		
S 01	13: 29: 42	12/08/95	1. 000				
0 00	TP45			P F8	NL-TP57		
0 09	13: 33: 33					6. 647	5. 462 4. 277
0 00	TP46			P F8	NL-TP58		
0 09	13: 37: 44					6. 328	4. 950 3. 572
S 00	S48			P	G8		
S 01	13: 37: 48	12/08/95	1. 000				
0 00	TP46			P F8	NL-TP58		
0 09	13: 42: 14					5. 976	4. 672 3. 368
0 00	TP47			P F8	NL-TP59		
0 09	13: 48: 16					6. 392	5. 061 3. 730
S 00	S49			P	G8		
S 01	13: 48: 21	12/08/95	1. 000				
0 00	TP47			P F8	NL-TP59		
0 09	13: 53: 29					6. 333	4. 850 3. 367
0 00	TP48			P F8	NL-TP60		
0 09	13: 57: 18					6. 035	4. 741 3. 447
S 00	S50			P	G8		
S 01	13: 57: 22	12/08/95	1. 000				
0 00	TP48			P F8	NL-TP60		
0 09	14: 01: 25					5. 755	4. 463 3. 171
0 00	TP49			P F8	NL-TP61		
0 09	14: 04: 53					5. 716	4. 412 3. 108
S 00	S51			P	G8		
S 01	14: 04: 56	12/08/95	1. 000				
0 00	TP49			P F8	NL-TP61		
0 09	14: 08: 36					5. 924	4. 711 3. 498
0 00	TP50			P F8	NL-TP62		

29 Adjustment BMPALM.txt

0 09 14: 17: 34					6. 063	4. 759	3. 455
S 00 S52				P G8			
S 01 14: 17: 37	12/08/95	1. 000					
0 00 TP50				P F8 NL-TP62			
0 09 14: 21: 43					6. 183	4. 861	3. 539
0 00 TP51				P F8 NL-TP63			
0 09 14: 24: 52					5. 996	4. 684	3. 372
S 00 S53				P G8			
S 01 14: 24: 56	12/08/95	1. 000					
0 00 TP51				P F8 NL-TP63			
0 09 14: 29: 21					5. 851	4. 556	3. 261
0 00 TP52				P F8 NL-TP64			
0 09 14: 32: 55					6. 296	5. 011	3. 726
S 00 S54				P G8			
S 01 14: 33: 00	12/08/95	1. 000					
0 00 TP52				P F8 NL-TP64			
0 09 14: 36: 51					6. 521	5. 267	4. 013
OD00 TP53				P F8 NL-TP65			
OD09 14: 40: 22					3. 917	2. 851	1. 785
S 00 S55				P G8			
S 01 14: 40: 26	12/08/95	1. 000					
OD00 TP53				P F8 NL-TP65			
OD09 14: 44: 04					6. 746	5. 453	4. 160
S 00 S55				P G8			
S 01 15: 00: 33	12/08/95	1. 000					
0 00 TP52				P F8 NL-TP64			
0 09 15: 06: 03					6. 857	5. 604	4. 351
0 00 TP53				P F8 NL-TP65			
0 09 15: 09: 57					4. 257	3. 191	2. 125
S 00 S56				P G8			
S 01 15: 10: 03	12/08/95	1. 000					
0 00 TP53				P F8 NL-TP65			
0 09 15: 13: 21					6. 678	5. 382	4. 086
0 00 TP54				P F8 NL-TP66			
0 09 15: 16: 13					7. 419	6. 078	4. 737
S 00 S57				P G8			
S 01 15: 16: 16	12/08/95	1. 000					
0 00 TP54				P F8 NL-TP66			
0 09 15: 18: 36					7. 059	5. 748	4. 437
0 00 TP55				P F8 NL-TP67			
0 09 15: 21: 04					7. 228	5. 863	4. 498
S 00 S58				P G8			
S 01 15: 21: 07	12/08/95	1. 000					
0 00 TP55				P F8 NL-TP67			
0 09 15: 26: 22					8. 866	7. 373	5. 880
0 00 TP56				P F8 NL-TP68			
0 09 15: 35: 35					6. 739	5. 147	3. 555
S 00 S59				P G8			
S 01 15: 35: 40	12/08/95	1. 000					
0 00 TP56				P F8 NL-TP68			
0 09 15: 38: 14					4. 671	3. 378	2. 085
0 00 TP57				P F8 NL-TP69			
0 09 15: 40: 12					5. 385	4. 108	2. 831
S 00 S60				P G8			
S 01 15: 40: 19	12/08/95	1. 000					
0 00 TP57				P F8 NL-TP69			
0 09 15: 42: 11					5. 724	4. 430	3. 136
0 00 TP58				P F8 NL-TP70			
0 09 15: 44: 29					6. 602	5. 303	4. 004
S 00 S61				P G8			
S 01 15: 44: 36	12/08/95	1. 000					
0 00 TP58				P F8 NL-TP70			
0 09 15: 46: 36					7. 024	5. 719	4. 414
0 00 TP59				P F8 NL-TP71			
0 09 15: 47: 58					6. 346	5. 057	3. 768
S 00 S62				P G8			
S 01 15: 48: 04	12/08/95	1. 000					
0 00 TP59				P F8 NL-TP71			
0 09 15: 50: 47					5. 470	4. 180	2. 890
0 00 TP60				P F8 NL-TP72			

29 Adjustment BMPALM.txt

O 09 15: 52: 05					5. 402	4. 096	2. 790
S 00 S63				P G8			
S 01 15: 52: 09	12/08/95	1. 000					
O 00 TP60				P F8 NL-TP72			
O 09 15: 54: 06					5. 832	4. 564	3. 296
O 00 TP61				P F8 NL-TP73			
O 09 15: 55: 18					6. 337	5. 042	3. 747
S 00 S64				P G8			
S 01 15: 55: 22	12/08/95	1. 000					
O 00 TP61				P F8 NL-TP73			
O 09 15: 57: 41					6. 713	5. 375	4. 037
O 00 TP62				P F8 NL-TP74			
O 09 16: 04: 40					6. 804	5. 582	4. 360
S 00 S65				P G8			
S 01 16: 04: 44	12/08/95	1. 000					
O 00 TP62				P F8 NL-TP74			
O 09 16: 06: 27					6. 892	5. 610	4. 328
O 00 TP63				P F8 NL-TP75			
O 09 16: 08: 17					6. 038	4. 815	3. 592
S 00 S66				P G8			
S 01 16: 08: 21	12/08/95	1. 000					
O 00 TP63				P F8 NL-TP75			
O 09 16: 11: 22					5. 217	4. 007	2. 797
O 00 TP64				P F8 NL-TP76			
O 09 16: 12: 44					5. 306	4. 165	3. 024
S 00 S67				P G8			
S 01 16: 12: 48	12/08/95	1. 000					
O 00 TP64				P F8 NL-TP76			
O 09 16: 15: 29					6. 767	5. 583	4. 399
O 00 TP65				P F8 NL-TP77			
O 09 16: 16: 49					6. 645	5. 482	4. 319
S 00 S68				P G8			
S 01 16: 16: 53	12/08/95	1. 000					
O 00 TP65				P F8 NL-TP77			
O 09 16: 19: 06					8. 249	7. 118	5. 987
O 00 TP66				P F8 NL-TP78			
O 09 16: 21: 32					8. 880	7. 656	6. 432
S 00 S69				P G8			
S 01 16: 21: 37	12/08/95	1. 000					
O 00 TP66				P F8 NL-TP78			
O 09 16: 25: 58					6. 016	4. 868	3. 720
O 00 TP67				P F8 NL-TP79			
O 09 16: 28: 18					5. 673	4. 478	3. 283
S 00 S70				P G8			
S 01 16: 28: 22	12/08/95	1. 000					
O 00 TP67				P F8 NL-TP79			
O 09 16: 30: 57					5. 593	4. 269	2. 945
O 00 TP68				P F8 NL-TP80			
O 09 16: 33: 35					5. 717	4. 358	2. 999
S 00 S71				P G8			
S 01 16: 33: 41	12/08/95	1. 000					
O 00 TP68				P F8 NL-TP80			
O 09 16: 36: 32					4. 881	4. 410	3. 939
O 00 BM2	8-ES			P F8 STMD			
O 09 16: 37: 57					4. 321	4. 047	3. 773
R 00 00: 00: 00	12/31/99						
R 99	TAPE OBSERVATION DATA STARTS HERE						
C 00 00: 00: 00	12/31/99						
C 99	DUMMY TAPE CALIBRATION TO RE-INITIALIZE COLLIMATION TO ZERO						
C 01	TAPING	TAPING			10	99	100
C 03 00: 00: 00				D	0	0	0.0 90 0 0.0
C 03 00: 00: 00				D	0	0	0.0 90 0 0.0
C 03 00: 00: 00				R	180	0	0.0 270 0 0.0
C 03 00: 00: 00				R	180	0	0.0 270 0 0.0
R 00 00: 00: 00	12/31/99						
R 99	TAPE OBSERVATION DATA ENDS HERE						
R 00 00: 00: 00	12/31/99						
R 99	TAPE TRAVERSE DATA (I. E. CHAINS) START HERE						
R 00 00: 00: 00	12/31/99						
R 99	TAPE TRAVERSE DATA (I. E. CHAINS) ENDS HERE						

R 00 00:00:00 12/31/99
R 99 CHAIN DATA STARTS HERE
R 00 00:00:00 12/31/99
R 99 CHAIN DATA ENDS HERE
R 00 00:00:00 12/31/99
R 99 PREFIX DATA STARTS HERE
P 00
P 01 S71, BM2, TP68, C1, 6A3, 6B3
F2D 1"nT"i^"D €α α x**→-+
R 00 00:00:00 12/31/99
R 99 PREFIX DATA ENDS HERE

"0"¼L"i^"D-D |DijDDa"xL"i^"D

BMPALM. CHL
PROJECT NAME IS BMPALM

ELEVATION CLOSURE REPORT
SUM OF DISTANCES ALONG SURVEY IS 2805.700
CLOSURE IN ELEVATION (Z) = .010
CLOSURE PER STATION = .002
PRECISION = 1 / 280570.

STATION	ELEVATION (Z)
BM1	6.170
TP1	6.199
TP2	5.129
TP3	4.936
TP4	4.958
TP5	4.781
BM2	4.940

ELEVATION CLOSURE REPORT
SUM OF DISTANCES ALONG SURVEY IS 31003.500
CLOSURE IN ELEVATION (Z) = .014
CLOSURE PER STATION = .000
PRECISION = 1 / 2214536.

STATION	ELEVATION (Z)
BM2	4.940
TP6	4.582
TP7	4.664
TP8	4.281
TP9	4.823
TP10	4.718
TP11	4.879
TP12	4.094
TP13	4.294
TP14	4.777
TP15	4.683
TP16	4.006
TP17	4.885
TP18	5.626
TP19	3.446
TP20	3.535
TP21	4.224
TP22	1.804
TP23	2.261
TP24	2.098
TP25	2.117
TP26	2.077
TP27	1.955
TP28	2.342
TP29	1.827
TP30	2.067
TP31	2.123
TP32	1.690
TP33	1.401
TP34	1.835
TP35	1.855
TP36	1.471
TP37	2.128
TP38	1.466
TP39	1.841

29 Adjustment BMPALM.txt

TP40	1.820
TP41	1.377
TP42	1.694
TP43	2.143
TP44	2.066
TP45	1.828
TP46	2.340
TP47	1.951
TP48	2.060
TP49	2.112
TP50	2.064
TP51	2.241
TP52	1.786
TP53	4.199
TP54	3.504
TP55	3.389
TP56	5.615
TP57	4.885
TP58	4.013
TP59	4.675
TP60	4.759
TP61	4.281
TP62	4.074
TP63	4.870
TP64	4.712
TP65	4.813
TP66	4.275
TP67	4.666
TP68	4.577
BM2	4.940

TOTAL LENGTH OF EVALUATED SURVEY DISTANCE = 6.403 MILES
 OVERALL PRECISION = 1 / 1408717.

BMPALM. CTL

G 00	BMPALM		
G 01	BM1	V314	F88
G 02			7.7000 .0001
G 01	BM2	8ES	F88
G 02			6.4700 .0001

BMPALM. XYZ

G 00	BMPALM. XYZ		
G 01	BM1	V314	P F8 STMD F88
G 02			7.700 .000
G 01	TP1		P F8 F88
G 02			7.729 .018
G 01	TP2		P F8 F88
G 02			6.659 .022
G 01	TP3		P F8 F88
G 02			6.466 .024
G 01	TP4		P F8 F88
G 02			6.488 .022
G 01	TP5		P F8 F88
G 02			6.311 .018
G 01	BM2	8-ES	P F8 STMD F88
G 02			6.470 .000
G 01	TP6		P F8 NL-TP10 F88
G 02			6.112 .019
G 01	TP7		P F8 NL-TP11 F88
G 02			6.194 .027
G 01	TP8		P F8 NL-TP12 F88
G 02			5.811 .033
G 01	TP9		P F8 NL-TP13 F88
G 02			6.353 .038
G 01	TP10		P F8 NL-TP14 F88
G 02			6.248 .042

29 Adjustment BMPALM.txt

G 01 TP11	P F8 NL-TP15	F88
G 02	6. 409	. 045
G 01 TP12	P F8 NL-TP16	F88
G 02	5. 624	. 048
G 01 TP13	P F8 NL-TP17	F88
G 02	5. 824	. 051
G 01 TP14	P F8 NL-TP18	F88
G 02	6. 307	. 054
G 01 TP15	P F8 NL-TP19	F88
G 02	6. 213	. 056
G 01 TP16	P F8 NL-TP20	F88
G 02	5. 536	. 059
G 01 TP17	P F8 NL-TP21	F88
G 02	6. 415	. 061
G 01 TP18	P F8 NL-TP22	F88
G 02	7. 156	. 063
G 01 C1	P F8 NL-C3	F88
G 02	6. 591	
G 01 TP19	P F8 NL-TP23	F88
G 02	4. 976	. 064
G 01 TP20	P F8 NL-TP24	F88
G 02	5. 065	. 066
G 01 TP21	P F8 NL-TP25	F88
G 02	5. 754	. 067
G 01 TP22	P F8 NL-TP26	F88
G 02	3. 334	. 069
G 01 TP23	P F8 NL-TP27	F88
G 02	3. 791	. 070
G 01 TP24	P F8 NL-TP28	F88
G 02	3. 628	. 071
G 01 TP25	P F8 NL-TP29	F88
G 02	3. 647	. 072
G 01 TP26	P F8 NL-TP30	F88
G 02	3. 607	. 073
G 01 TP27	P F8 NL-TP31	F88
G 02	3. 485	. 074
G 01 TP28	P F8 NL-TP32	F88
G 02	3. 872	. 075
G 01 TP29	P F8 NL-TP33	F88
G 02	3. 357	. 075
G 01 TP30	P F8 NL-TP34	F88
G 02	3. 597	. 076
G 01 TP31	P F8 NL-TP35	F88
G 02	3. 653	. 076
G 01 TP32	P F8 NL-TP36	F88
G 02	3. 220	. 077
G 01 TP33	P F8 NL-TP37	F88
G 02	2. 931	. 077
G 01 TP34	P F8 NL-TP38	F88
G 02	3. 365	. 077
G 01 TP35	P F8 NL-TP39	F88
G 02	3. 385	. 078
G 01 TP36	P F8 NL-TP40	F88
G 02	3. 001	. 078
G 01 6A1	P F8 MONW	F88
G 99 CONC.		
G 02	3. 069	
G 01 6A2	P F8 MONW	F88
G 99 TOP OF PIPE		
G 02	5. 773	
G 01 6A3	P F8 MONW	F88
G 99 TOP OF PVC		
G 02	5. 380 6B	
G 01 6B1	P F8 MONW	F88
G 99 CONC.		
G 02	2. 892	
G 01 6B2	P F8 MONW	F88
G 99 TOP OF PIPE		
G 02	5. 590	
G 01 6B3	P F8 MONW	F88

29 Adjustment BMPALM.txt

G 99	TOP OF PVC			
G 02			5. 238	6A
G 01	TP37	P F8	NL-TP41	F88
G 02			3. 658	. 078
G 01	TP38	P F8	NL-TP50	F88
G 02			2. 996	. 078
G 01	TP39	P F8	NL-TP51	F88
G 02			3. 371	. 078
G 01	TP40	P F8	NL-TP52	F88
G 02			3. 350	. 077
G 01	TP41	P F8	NL-TP53	F88
G 02			2. 907	. 077
G 01	TP42	P F8	NL-TP54	F88
G 02			3. 224	. 077
G 01	TP43	P F8	NL-TP55	F88
G 02			3. 673	. 076
G 01	TP44	P F8	NL-TP56	F88
G 02			3. 596	. 076
G 01	TP45	P F8	NL-TP57	F88
G 02			3. 358	. 075
G 01	TP46	P F8	NL-TP58	F88
G 02			3. 870	. 075
G 01	TP47	P F8	NL-TP59	F88
G 02			3. 481	. 074
G 01	TP48	P F8	NL-TP60	F88
G 02			3. 590	. 073
G 01	TP49	P F8	NL-TP61	F88
G 02			3. 642	. 072
G 01	TP50	P F8	NL-TP62	F88
G 02			3. 594	. 071
G 01	TP51	P F8	NL-TP63	F88
G 02			3. 771	. 070
G 01	TP52	P F8	NL-TP64	F88
G 02			3. 316	. 069
G 01	TP53	P F8	NL-TP65	F88
G 02			5. 729	. 067
G 01	TP54	P F8	NL-TP66	F88
G 02			5. 034	. 066
G 01	TP55	P F8	NL-TP67	F88
G 02			4. 919	. 064
G 01	TP56	P F8	NL-TP68	F88
G 02			7. 145	. 063
G 01	TP57	P F8	NL-TP69	F88
G 02			6. 415	. 061
G 01	TP58	P F8	NL-TP70	F88
G 02			5. 543	. 059
G 01	TP59	P F8	NL-TP71	F88
G 02			6. 205	. 056
G 01	TP60	P F8	NL-TP72	F88
G 02			6. 289	. 054
G 01	TP61	P F8	NL-TP73	F88
G 02			5. 811	. 051
G 01	TP62	P F8	NL-TP74	F88
G 02			5. 604	. 048
G 01	TP63	P F8	NL-TP75	F88
G 02			6. 400	. 045
G 01	TP64	P F8	NL-TP76	F88
G 02			6. 242	. 042
G 01	TP65	P F8	NL-TP77	F88
G 02			6. 343	. 038
G 01	TP66	P F8	NL-TP78	F88
G 02			5. 805	. 033
G 01	TP67	P F8	NL-TP79	F88
G 02			6. 196	. 027
G 01	TP68	P F8	NL-TP80	F88
G 02			6. 107	. 019

Fixed width point lat/long/height listing

Project : 1834

User name	mmckay	Date & Time	2:15:32 PM 7/22/2005
Coordinate System	US State Plane 1983	Zone	Florida East 0901
Project Datum	NAD 1983 (Conus)		
Vertical Datum	NAVD-88	Geoid Model	GEOID03-Florida
Coordinate Units	US survey feet		
Distance Units	US survey feet		
Height Units	US survey feet		

Point listing

Name	Latitude	Longitude	Height	Feature Code
H098	25°28'56.73273"N	80°22'17.84087"W	-69.757	BASE
1000	25°29'22.36525"N	80°20'48.99131"W	-66.204	r724
w2	25°30'07.00000"N	80°21'51.00000"W	0.000	WELL
w10	25°28'20.00000"N	80°19'54.00000"W	0.000	WELL
6117	25°28'19.75687"N	80°19'55.57794"W	-65.253	WELL
6118	25°28'19.67518"N	80°19'55.60331"W	-75.893	WELL
6119	25°28'19.69025"N	80°19'55.61148"W	-65.076	WELL
w9	25°28'21.14728"N	80°20'48.74987"W	-68.589	WELL
w9a	25°28'21.22967"N	80°20'48.74849"W	-68.554	WELL
w3a	25°29'06.90638"N	80°22'46.49994"W	-68.219	WELL
w3b	25°29'06.90599"N	80°22'46.54356"W	-68.165	WELL
w22	25°30'15.01587"N	80°20'51.36032"W	-67.993	WELL
w4	25°27'20.46866"N	80°22'02.66956"W	-70.447	
w5	25°26'26.67790"N	80°22'46.66145"W	-68.651	WELL
TEST	25°48'09.81220"N	80°21'55.06944"W	-78.161	
6352	25°48'09.82674"N	80°21'55.17527"W	-77.249	WELL
6353	25°48'09.75764"N	80°21'55.23181"W	-77.364	WELL
TRAV4	25°37'22.39803"N	80°18'39.43883"W	-79.056	BASE
6354	25°37'25.56377"N	80°18'39.31953"W	-72.830	NL
6355	25°36'05.41229"N	80°18'34.23553"W	-78.508	WELL
6356	25°36'05.47579"N	80°18'34.17560"W	-78.517	WELL
6	25°25'18.00000"N	80°26'01.00000"W	10.000	WELL
AUTO0001	25°40'35.06356"N	80°19'23.67748"W	-82.523	W1

[Back to top](#)