MONITORING WELL SURVEY REPORT

IFIS WELL SITE LOCATIONS AND BENCH MARK ESTABLISHMENT

PROJECT TITLE: C111 Study Area- Well Site Locations and Benchmark Establishment

PURCHASE ORDER: 9500006397

WORK ORDER NUMBER: 4600002690-WO07 & 4600002690-WO07R1

CONSULTANT NAME: Wantman Group, Inc.

PROJECT MANAGERS: Howard Ehmke, District's Project Manager

Derek Zeman, Consultant's Project Manager

Services provided by:



2035 Vista Parkway West Palm Beach, Florida 33411 561-687-2220

Deliverable Items to South Florida Water Management District:

The following items were delivered to South Florida Water Management District with this **Surveyor's Report. Neither the** report nor the items listed below are complete without the other.

A CD Containing the following digital information:

- Survey Report in PDF Format
- Electronic Copy of Field Notes in PDF Format
- Site Photographs of wells and benchmarks

Legend:

NAVD 88 - North American Vertical Datum of 1988 NGS - National Geodetic Survey SFWMD - South Florida Water Management District ACOE - Army Corp of Engineers RTK- Real Time Kinematic (Type of GPS Operating Mode)

Survey Notes:

- 1. Survey map & report, or copies thereof, are not valid without the signature and the original raised seal of a Florida Licensed Surveyor and Mapper.
- 2. Additions or deletions to the survey maps or reports by other than the signing party or parties are prohibited without the written consent of the signing party or parties.
- 3. The purpose of this survey is to show results of the horizontal and vertical locations of 4 existing IFIS well sites and set NAVD88 bench mark (monument) at each site.
- 4. Horizontal Accuracy: 0.05' of a foot. Vertical Accuracy: 0.02' of a foot.

Surveyor's Certification:

I hereby certify that this Specific Purpose Survey meets applicable portions of the Minimum Technical Standards set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 5J-17, Florida Administrative Code. This report is prepared for the sole and specific use of the South Florida Water Management District and is not assignable.

Last Date of Field Data Acquisition: 7/31/2015

Wantman Group, Inc. L.B. Number 7055

Derek G. Zeman, PSM

State of Florida Certificate No. LS5655

Table of Contents

1)	Abstract and Survey Methodology	4 - 6					
2)	Main Report	7 - 8					
3)	GPS Network						
	A. GPS Network Maps						
	B. GPS Control and Checks						
4)	Well As-Built Data Sheets.	12 – 20					
5)	S) Bench Run Adjustments						
6)	Well Site Bench Mark Description Sheets						
7)	7) NGS Data Sheets						
8)	Field Notes.	48 - 74					
	Revision 2 – Five Additional Well Sit	es					
9)	Additional Well Sites Location Map	75 – 76					
10)	Additional Well Sites GPS Network	77					
	A. GPS Network Map	78					
	B. GPS Control	79					
11)	Additional Well Sites As-Built Data Sheets	80 – 90					
12)	Additional Well Sites Bench Run Adjustment Sheets	91 – 94					
13)	3) Additional Well Sites Bench Mark Description Sheets 95 – 100						
14)	Additional Well Sites Field Notes	101 – 116					

ABSTRACT AND SURVEY METHODOLOGY

ABSTRACT

This report documents the vertical and GPS surveys conducted in support of the LiDAR project data collection for C111 Study Area and (4) Well Site Locations and Bench Mark Establishment Project. The data was collected between April 2, and April 15, 2015. The ground control stations were established using a Topcon Omni GPS receiver (s/n 231-0305) and a Topcon GR5 GPS receiver (s/n 847-11322) along with a Topcon DL-505 Digital Level (s/n 510550). There were no problems encountered during the survey for the well sites.

Following control network establishment, surveys were conducted at 4 sites utilizing NGS base stations with both horizontal and vertical data. These surveys established horizontal data on existing wells. Bench run circuits were performed to each site to establish a bench mark at well sites and to establish vertical data on the top of 2" PVC well pipe.

SURVEY METHODOLOGY

Prior to beginning the survey collection, a reconnaissance was done of the existing horizontal and vertical control in the project area. Based on results of the findings, the control to be used was selected based on their locations, horizontal and vertical orders, and accessibility. The control points selected for base points, all have horizontal and vertical information. Checks were done between base points at each setup.

After the Real Time Kinematic (RTK) network was completed, bench runs were adjusted per SFWMD standards and can be seen on attached pages along with the survey field notes.

The horizontal and vertical datums used for this project are listed below:

Coordinate System: US State Plane

Zone: Florida East 0901 Horizontal datum: NAD83/11 Vertical Datum: NAVD88 Geoid Model: Geoid03

Units: US Survey Feet

Main Report

Main Report

REAL TIME KINEMATIC GPS SUMMARY

The RTK network was planned to ensure that each well site control point was tied to two existing NGS control points. The control monuments were selected based on their locations, horizontal and vertical orders, and accessibility see. All base setups were checked to existing NGS points.

PRELIMINARY ANALYSIS

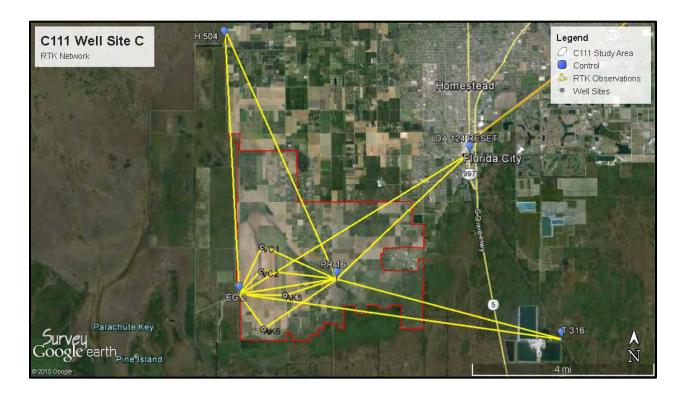
The RTK network was processed using SURVEY LINK with GEODETIC and DIGITAL LEVEL MODULES 7.5.5, then averaged using a WGI Double Occupy Average program (see page 12). Closed bench runs were ran to each site and averaged using SFWMD standards (see page 21). Redundant checks were made at each site to show vertical accuracy.

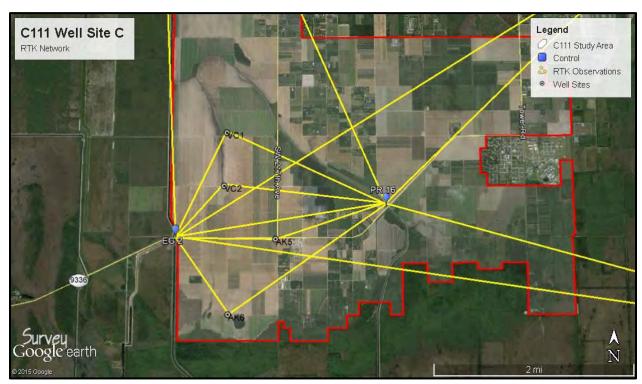


GPS NETWORK

GPS NETWORK MAP

GPS NETWORK MAP





C111 Well Sites Control and Checks

Point	Latitude	Longitude	Northing	Easting	Elev.	Desc.	NGS Northing	NGS Easting	NGS ELEV.	ERROR N.	ERROR E.	ERROR EL.
DA124 RESET	25 26 53.68886	80 28 37.51331	405498.766	828713.417	4.081	CHK DA124RESET	405498.79	828713.47	4.10	-0.024	-0.053	-0.019
PR16	25 24 29.67199	80 31 26.30119	390901.708	813294.128	4.927	CHK PR16	390901.76	813294.17	4.98	-0.052	-0.042	-0.053
EG2	25 24 13.19526	80 33 29.56530	389199.482	801997.510	9.185	CHK EG2	389199.45	801997.54	9.11	0.032	-0.030	0.075
T316	25 23 20.84452	80 26 41.25221	384054.182	839459.370	4.343	CHK T316	384054.21	839459.38	4.35	-0.028	-0.010	-0.007
H504	25 29 00.76435	80 33 49.66628	418224.681	800059.422	9.536	CHK H504			9.51			0.026
10026	25 24 12.57257	80 32 31.11904	389154.672	807356.878	3.923	IR AK5						
10027	25 23 33.78277	80 32 57.96443	385230.332	804908.529	5.277	IR AK6						
10028	25 24 39.86393	80 33 02.14162	391900.171	804503.026	2.820	IR VC2						
10029	25 25 05.50662	80 33 05.39418	394487.894	804196.109	4.080	IR VC1						
10810	25 24 12.58314	80 32 31.09538	389155.747	807359.043	4.800	MH CL RIM AK5						
10811	25 24 12.57701	80 32 31.10650	389155.124	807358.026	4.858	NG						
10812	25 23 33.76728	80 32 57.96429	385228.768	804908.547	5.775	MH CL RIM AK6						
10813	25 23 33.80001	80 32 57.96544	385232.072	804908.431	5.874	NG						
10814	25 24 39.83327	80 33 02.13747	391897.077	804503.417	3.659	MH CL RIM VC2						
10815	25 24 39.87990	80 33 02.14432	391901.782	804502.773	3.626	NG						
10816	25 25 05.53304	80 33 05.38958	394490.562	804196.521	4.633	MH CL RIM VC1						
10817	25 25 05.49840	80 33 05.37806	394487.069	804197.589	4.653	NG						

NGS POINT DA124 RESET HORZ & VERT PID#AC1157 VERTICAL ORDER FIRST CLASS II
NGS POINT PR16 HORZ & VERT PID#AB2358 VERTICAL ORDER FIRST CLASS II
NGS POINT EG2 HORZ & VERT PID#AB2362 VERTICAL ORDER FIRST CLASS II
NGS POINT T316 HORZ & VERT PID#AC1151 HORZ ORDER SECOND, VERTICAL ORDER SECOND CLASS 0
NGS POINT H504 VERT PID#AJ8393 VERTICAL ORDER FIRST CLASS II

WELL AS-BUILT SHEETS

Party Chief: Jose Mendoza	Field Book Number: 586	Page Number: 25
Benchmark Elevation (NAVD 88): 4.143		
Benchmark Agency: SFWMD	Benchmark Type: Precision Rod w/Sleeve	Benchmark Stamp: VC-1 2015
Reference Elevation Notch West Side 2" PVC = 4.45 Well Rim = 4.61 (Exp. Difference = 0.16 (S)	Natural Ground: 4.7	
Latitud 25 25 05.5 DTW from Notch: -4.25 12:18AN	Longitude: 80 33 05.39099	

Photographs:

<u>Pic#1:</u>



Pic#3 3Ft:



<u>Pic#2:</u>



Pic#3 10Ft:



Continued

Pic#4:



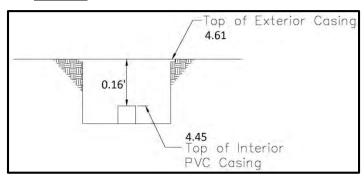
Pic#5 3FT:



Pic#5 10FT:



<u>Pic#7:</u>



- **1.** A Picture looking down (top view) at the open well.
- **2.** A picture looking down at the well head (with a ruler on it).
- An oblique picture of the well approximately 3 feet and one at 10 feet from the well head.
- 4. A picture looking down (Top view) of the benchmark disk.
- **5.** An oblique picture of the benchmark at approximately 3 feet and on at 10 feet from the benchmark
- **6.** Exhibit of the Distance from the Top of the Interior Casing to the Top of the Exterior Casing.

Party Chief: Jose Mendoza	Field Book Number: 586	Page Number:
Benchmark Elevation (NAVD 88): 2.865	Date of Field Work: April 15, 2015	Datum Offset to NGVD 29: 1.58
Benchmark Agency:	Benchmark Type:	Benchmark Stamp:
SFWMD	Precision Rod w/Sleeve	VC-2 2015
Reference Elevation	n (NAVD88):	Natural Ground:
Notch South Side 2" PVC = 3.20	6 (Top of Interior Casing)	3.70
Well Rim = 3.65 (Ex	terior Casing)	
Difference = 0.39 (S	Ç,	
Latitud	Longitude:	
25 24 39.8	80 33 02.13896	
DTW from Notch 2 07' 11:174M	1 1 1 1 1	

DTW from Notch: 3.07′ 11:17AM 4-15-15

Photographs:

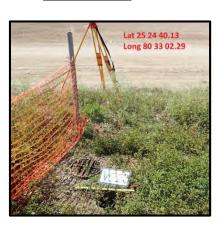
<u>Pic#1:</u>



<u>Pic#2</u>



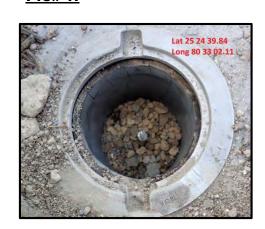
Pic#3 3FT:



Pic#3 10Ft:



<u>Pic#4:</u>



Continued

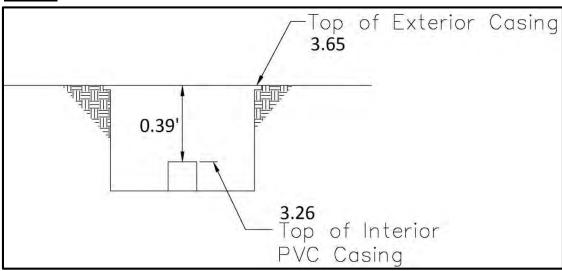
Pic#5 3FT:



Pic#5 10Ft:



Pic#6:



- A Picture looking down (top view) at the open well.
- 2. A picture looking down at the well head (with a ruler on it).
- An oblique picture of the well approximately 3 feet and one at 10 feet from the well head.
- 4. A picture looking down (Top view) of the benchmark disk.
- **5.** An oblique picture of the benchmark at approximately 3 feet and on at 10 feet from the benchmark
- **6.** Exhibit of the Distance from the Top of the Interior Casing to the Top of the Exterior Casing.

Party Chief: Jose Mendoza	Field Book Number: 586	Page Number: 23		
Benchmark Elevation (NAVD	Date of Field Work:	Datum Offset to NGVD 29:		
88): 6.347	April 15, 2015	1.57		
Benchmark Agency:	Benchmark Type:	Benchmark Stamp:		
SFWMD	Precision rod w/Sleeve	AK-5 2015		
Reference Elevation	on (NAVD88):	Natural Ground:		
Notch South Side 2" PVC = 4.4	12 (Top of Interior Casing)	4.9		
Well Rim = 4.80 (E	xterior Casing)			
Difference = 0.38 (S	See Picture #6)			
Latitud	Longitude:			
25 24 12.5	80 32 31.097			
DTW from Notch: -4.46 9:18AM	4-15-15			

Photographs:

<u>Pic#1:</u>





Pic#3 3Ft:



Pic#3 10Ft:



Continued

Pic#4:



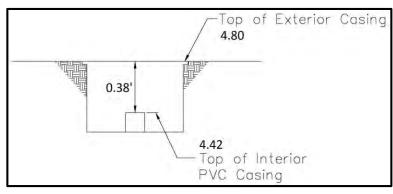
Pic#5 3Ft:



Pic#5 10Ft:



<u>Pic#6:</u>



- A Picture looking down (top view) at the open well.
- 2. A picture looking down at the well head (with a ruler on it).
- An oblique picture of the well approximately 3 feet and one at 10 feet from the well head.
- 4. A picture looking down (Top view) of the benchmark disk.
- An oblique picture of the benchmark at approximately 3 feet and on at 10 feet from the benchmark
- **6.** Exhibit of the Distance from the Top of the Interior Casing to the Top of the Exterior Casing.

Party Chief: Jose Mendoza	Field Book Number: 586	Page Number: 24		
Benchmark Elevation (NAVD 88): 5.266	Date of Field Work: April 15, 2015	Datum Offset to NGVD 29		
Benchmark Agency: SFWMD	Benchmark Type: Precision rod w/Sleeve	Benchmark Stamp: AK-6 2015		
Reference Elevation Notch South Side 2" PVC = 5.1 Well Rim = 5.60 (Export Difference = 0.43 (Section 1)	Natural Ground: 5.8			
Latitud 25 23 33.7	Longitude: 80 32 57.96601			
DTW from Notch: -5.28 10:18AN	Л 4-15-15			

Photographs:

<u>Pic#1:</u>



<u>Pic#2:</u>



Pic#3 3Ft:



Pic#3 10Ft:



Continued

Pic#4:



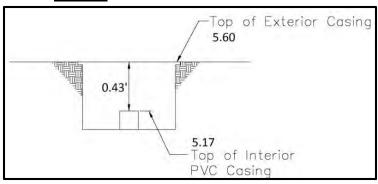
Pic#5 3Ft:



Pic#5 10Ft:



Pic#6:



- A Picture looking down (top view) at the open well.
- 2. A picture looking down at the well head (with a ruler on it).
- An oblique picture of the well approximately 3 feet and one at 10 feet from the well head.
- **4.** A picture looking down (Top view) of the benchmark disk.
- **5.** An oblique picture of the benchmark at approximately 3 feet and on at 10 feet from the benchmark
- **6.** Exhibit of the Distance from the Top of the Interior Casing to the Top of the Exterior Casing.

BENCH RUN ADJUSTMENTS

WELL SITE BENCH MARK SHEETS

Closure Report for file K:\Data Files\TDS2015\129707 Org 4-2-15.lev

SFWMD Bench Run for Well As-builts C-111 LiDAR Project

J. Friend TJ Clanton B. Jones Field Book: 586 Pg. 8-10

Job No.: 1297.07

Benchmark No.: EG2 NGS BM PID# AB2362

Starting BM Elev.: 9.110

Ending BM Elev.: 4.980 (PR16 NGS BM PID# AB2358)

Unadjusted Ending Elev.: 4.952

Closure Error: -0.028

Length of Level Run: 12,174.90 (2.306 Miles)

Allowable Error: 0.05

Units: Feet Datum: NAVD88

Closure is within allowable tolerances Adjustment proportional to total distance Pt.# Unadj. Elev. Adj. Elev. Description

EG2 9.110 Fd FDOT Brass Disk on Bridge

8-1 5.014 5.015

8-2 4.736 4.738

8-3 4.654 4.657

8-4 4.253 4.258

8-5 5.157 5.163

8-6 5.893 5.900

8-7 5.634 5.642

8-8 4.974 4.983

8-9 6.009 6.019

8-10 6.141 6.153

10002 6.334 6.347

8-11 6.084 6.098

8-12 6.911 6.926

8-13 6.993 7.009

8-14 6.410 6.427

8-15 5.843 5.861

8-16 5.525 5.544

8-17 5.792 5.812

8-18 6.682 6.704

8-19 6.502 6.525

8-20 5.960 5.984

8-21 6.442 6.467

8-22 6.270 6.296

8-23 6.264 6.291

EG1 7.022 7.050 Fd Brass disk on bridge EL+7.01

PR16 4.952 4.980 Fd SFWMD disk stamped PR-16 1979 BM

VC-1 and VC-2 Level run

Closure Report for file K:\Data Files\TDS2015\129707 Edit VC1 and VC2 4-16-15.lev SFWMD Bench Run for Well As-builts C-111 LiDAR Project Well VC-1 & VC-2

J. Mendoza A. Mathison M. Hart Field Book: 586 Pg. 24, 29-30

Job No.: 1297.07

Benchmark No.: 586-8-2 Ref. 129707 Org 4-2-15.lev

Starting BM Elev.: 4.738 Ending BM Elev.: 5.163

Unadjusted Ending Elev.: 5.143

Closure Error: -0.020

Length of Level Run: 11,303.20 (2.141 Miles)

Allowable Error: 0.04

Units: Feet

Vertical Datum: NAVD88

Closure is within allowable tolerances Adjustment proportional to total distance Pt.# Unadj. Elev. Adj. Elev. Description

8-2 4.738

29-1 3.935 3.936

29-2 4.027 4.029

29-3 4.396 4.399

29-4 4.271 4.275

29-5 4.179 4.183

29-6 4.144 4.149

29-7 4.193 4.199

29-8 4.300 4.307

29-9 4.142 4.150

29-10 3.309 3.318

29-11 3.114 3.124

VC1 4.133 4.143 Set Precision Rod w/Sleeve

29-13 2.786 2.797

30-14 2.473 2.485

30-15 2.163 2.176

30-16 2.722 2.736

30-17 2.233 2.248

VC2 2.850 2.865 Set Precision Rod w/Sleeve

30-19 2.644 2.660

30-20 2.845 2.862

30-21 3.218 3.236

30-22 3.152 3.171

30-23 3.907 3.927

8-5 5.143 5.163 Ref. 129707 Org 4-2-15.lev

AK-6 Level Run

Closure Report for file K:\Data Files\TDS2015\129707 Edit AK6 4-16-15.lev SFWMD Bench Run for Well As-builts C-111 LiDAR Project Well AK-6

J. Mendoza A. Mathison M. Hart Field Book: 586 Pg. 24, 27-28

Job No.: 1297.07

Benchmark No.: 586-8-5 Ref. 129707 Org 4-2-15.lev

Starting BM Elev.: 5.163 Ending BM Elev.: 5.900

Unadjusted Ending Elev.: 5.905

Closure Error 0.005

Length of Level Run: 8,481.30 (1.606 Miles)

Allowable Error: 0.04

Units: Feet

Vertical Datum: NAVD88

Closure is within allowable tolerances Adjustment proportional to total distance Pt.# Unadj. Elev. Adj. Elev. Description

586-8-5 5.163

27-1 4.839 4.839

27-2 4.461 4.460

27-3 4.369 4.368

27-4 3.624 3.623

27-5 3.498 3.497

27-6 3.859 3.857

27-7 4.260 4.258

27-8 5.246 5.244

27-9 5.320 5.318

AK6 5.269 5.266 Set Precision Rod w/Sleeve

28-11 5.250 5.247

28-12 4.271 4.268

28-13 3.866 3.863

28-14 3.504 3.500

28-15 3.631 3.627

28-16 4.380 4.376

28-17 4.475 4.471

28-18 4.853 4.848

8-6 5.905 5.900 Ref. 129707 Org 4-2-15.lev

WELL SITE BENCH MARKS



Rev. 8/07

				Rev. 0/07		
DESIGNATION VC-1 2015			PROJECT C111 LiDAR AND WELL SITES			
ESTABLISHED BY WANTMAN GROUP			SURVEYOR DEREK ZEMAN			
RECOVERED BY			ГЕ 04/14/2015			
GEOGRAPHIC POSITION						
SECTION 5	TOWNSHII	P 58S		RANGE 38E		
COUNTY MIAMI-DADE		NAME OF QUADRANGLE ROYAL PALM RANGER STATION				
HORIZONTAL DATUM: 1927	' 1983 Other_		(circle o	ne) ZONE E or W		
VERTICAL DATUM: MSL	1929 1988 O	ther _		_ (circle one)		
CONTROL ACCURACY: H	ORIZONTAL 1 2	2 3 _	(circle o	ne) VERTICAL 1 2 3		
STATE PLANE	X 804196.1088	Υ	394487.8935	NAVD 88 ELEV. <u>4.143</u>		
COORDINATES				NGVD 29 ELEV		
LATITUDE 25 25 05.50846		•	LONGITUDE 8	80 33 05.39558		
	RECOV	ERY [DESCRIPTION			
Stamping: VC-1 2015						
To Reach: FROM THE INTERSEC	CTION OF SOUTH DIXE	HWY.	AND EAST PALM D	R. GO WEST ON E. PALM DR FOR 1.66 MILES		
TO TOWER RD. TURN LEFT ON TOWER RD. AND GO SOUTH FOR 2.02 MILES TO INGRAHAM HWY. GO WEST ON INGRAHAM HWY. FOR 3.0 MILES TO THE INTERSECTION OF S.W. 217th AVE. TURN RIGHT AND GO NORTH ON SW 217 th AVE. 0.94 MILES, TURN LEFT AT A DIRT ROAD HEADING NW (SW 376 th ST.) CONTINUE ON DIRT ROAD TO TEE IN ROAD, TURN LEFT AND HEAD WEST ON DIRT ROAD FOR 0.6 MILES TO THE WEST SIDE OF A SLOUGH, MARK IS ON THE SOUTH SIDE OF ROAD. AND 1.2FT NORTH OF A CARSONITE POST AND 4FT SOUTH OF WELL VC-1. SET PRECISON ROD W/SLEEVE						
Notable Land marks: WELL	VC-1					
FIELD BOOK 586	PAGE 2		TCH			
				MEDICIS		



				Rev. 8/07			
DESIGNATION VC-2 2015			PROJECT C111 LiDAR AND WELL SITES				
ESTABLISHED BY WANTMAN GROUP			SURVEYOR DEREK ZEMAN				
RECOVERED BY			DATE 04/14/2015				
	GEOG	RAPH	IC POSITION				
SECTION 5	TOWNSHIE	- 58S		RANGE 38E			
COUNTY MIAMI-DADE		NAM STAT		NGLE ROYAL PALM RANGER			
HORIZONTAL DATUM: 1927	1983 Other_		(circle o	one) ZONE E or W			
VERTICAL DATUM: MSL	1929 1988 Ot	her _		(circle one)			
CONTROL ACCURACY: H	ORIZONTAL 1 2	2 3 _	(circle o	ne) VERTICAL 1 2 3			
STATE PLANE	X 391900.1708	Υ	804503.0261	NAVD 88 ELEV. <u>2.865</u>			
COORDINATES				NGVD 29 ELEV			
LATITUDE 25 24 39.86579			LONGITUDE 80 33 02.14311				
	RECOV	ERY [ESCRIPTION				
Stamping: VC-2 2015							
To Reach: FROM THE INTERSEC	TION OF SOUTH DIXE	HWY.	AND EAST PALM D	DR. GO WEST ON E. PALM DR FOR 1.66 MILES			
TO TOWER RD. TURN LEFT ON TO							
				N RIGHT AND GO NORTH ON SW 217 th AVE.			
			<u> </u>	0.55 MILES TO THE SOUTH END OF A RSONITE POST AND 3FT NORTH OF WELL			
VC-2	SIDE OF DIKT KOAD F	AND ZE	1 SOUTH OF A CA	RSONITE FOST AND SET NORTH OF WELL			
SET PRECISON ROD W/SLEEVE							
Notable Land marks: WELL	VC-2						
FIELD BOOK 500	DAGE 0	0.00					
FIELD BOOK 586	FIELD BOOK 586 PAGE 29-30						
SKETCH							



Rev. 8/07

			rev. 0/07				
DESIGNATION AK-5 2015		PROJECT C111 LiDAR AND WELL SITES					
ESTABLISHED BY WANTMA	N GROUP	SURVEYOR DEREK ZEMAN					
RECOVERED BY		DATE 04/14/2015					
	GEOG	RAPHIC POSITION					
SECTION 9	TOWNSHI	P 58S	RANGE 38E				
COUNTY MIAMI-DADE		NAME OF QUADRA STATION	NAME OF QUADRANGLE ROYAL PALM RANGER STATION				
HORIZONTAL DATUM: 1927	1983 Other	(circle o	ne) ZONE E or W				
VERTICAL DATUM: MSL	1929 1988 O	ther	(circle one)				
CONTROL ACCURACY: H	ORIZONTAL 1	2 3(circle o	ne) VERTICAL 1 2 3				
STATE PLANE	X 807468.6067	Y 389216.9772	NAVD 88 ELEV. <u>3.896</u>				
COORDINATES			NGVD 29 ELEV				
LATITUDE 25 24 13.18774		LONGITUDE	80 32 29.89988				
	RECOV	ERY DESCRIPTION					
Stamping: AK-5 2015							
To Reach: FROM THE INTERSEC	TION OF SOUTH DIXE	HWY. AND EAST PALM D	R. GO WEST ON E. PALM DR FOR 1.66 MILES				
TO TOWER RD. TURN LEFT ON TO	WER RD. AND GO SO	UTH FOR 2.02 MILES TO IN	NGRAHAM HWY. GO WEST ON				
INGRAHAM HWY. FOR 3.0 MILES TO	O THE INTERSECTION	N OF S.W. 217 th AVE. AND	THE MARK AT THE S.W. CORNER OF				
		THE SOUTH EP OF INGRA	AHAM HWY. AND 2.0FT NORTH OF A				
CARSONITE POST AND 2.5FT WES	T OF WELL AK-5.						
SET PRECISION ROD W/SLEEVE							
	A17 =						
Notable Land marks: WELL	4K 5						
FIELD BOOK 500	DAGE	20.0.00					
FIELD BOOK 586	PAGE 2						
FIELD BOOK 586 PAGE 23 & 26 SKETCH The state of the s							



Rev. 8/07

DESIGNATION AK-6 2015			PROJECT C111 LiDAR AND WELL SITES				
ESTABLISHED BY WANTMAN GROUP			SURVEYOR DEREK ZEMAN				
RECOVERED BY			DATE 04/14/2015				
		GEOGI	RAPH	IIC POSITION			
SECTION 8		TOWNSHIP	P 58S			RANGE 38E	
COUNTY MIAMI-DADE				NAME OF QUADRANGLE ROYAL PALM RANGER STATION			
HORIZONTAL DATUM: 1927	19	83 Other_		(circle o	ne)	ZONE E or W	
VERTICAL DATUM: MSL	1929	1988 Ot	her _		_	(circle one)	
CONTROL ACCURACY: H	ORIZO	NTAL 1 2	3	(circle o	ne)	VERTICAL 1 2 3	
STATE PLANE	X 804	4908.529	Y	385230.3317 N		NAVD 88 ELEV. <u>5.266</u>	
COORDINATES				N		NGVD 29 ELEV	
LATITUDE 25 23 33.78470			LONGITUDE 80 32 57.96615				
		RECOV	ERY	DESCRIPTION			
Stamping: AK-6 2015							
To Reach: FROM THE INTERSEC	TION C	F SOUTH DIXE	HWY.	AND EAST PALM D	R. G	O WEST ON E. PALM DR FOR 1.66 MILES	
TO TOWER RD. TURN LEFT ON TO	WER R	D. AND GO SOL	JTH FC	OR 2.02 MILES TO IN	IGR,	AHAM HWY. GO WEST ON	
						E WEST ON INGRAHAM HWY. FOR	
						LEFT ON 222 nd AVE. AND GO SOUTH FOR	
						N THE NORTH SIDE OF DIRT ROAD.	
BENCH MARK IS 1.7FT NORTH OF	WELL A	K 6 AND 2FT SO	DUTH	OF A CARSONITE P	OS	Г.	
SET PRECISION ROD W/SLEEVE.							
Notable Land marks: WELL AK 6							
NOTABLE LATIN HINTES. WELL	¬r\ U						
FIELD BOOK 586 PAGE 27-28							
SKETCH							
			Orti	_1011			







NGS DATA SHEETS

DATASHEETS Data Sheet Retrieval

The NGS Data Sheet

```
See file dsdata.txt for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.7
    National Geodetic Survey, Retrieval Date = JUNE 2, 2015
AC1157 DESIGNATION - DA 124 RESET
              - AC1157
AC1157 PID
AC1157 STATE/COUNTY- FL/MIAMI-DADE
AC1157 COUNTRY - US
AC1157 USGS QUAD - HOMESTEAD (1994)
AC1157
AC1157
                  *CURRENT SURVEY CONTROL
AC1157
AC1157* NAD 83(2011) POSITION- 25 26 53.68913(N) 080 28 37.51268(W) ADJUSTED
AC1157* NAD 83(2011) ELLIP HT- -23.647 (meters)
                                               (06/27/12) ADJUSTED
AC1157* NAD 83(2011) EPOCH - 2010.00
AC1157* NAVD 88 ORTHO HEIGHT - 1.249 (meters)
                                                 4.10 (feet) ADJUSTED
AC1157
AC1157 NAD 83(2011) X - 953,414.519 (meters)
                                                   COMP
AC1157 NAD 83(2011) Y --5,683,417.183 (meters)
                                                   COMP
AC1157 NAD 83(2011) Z - 2,723,984.572 (meters)
                                                   COMP
AC1157 LAPLACE CORR -
                            -3.36 (seconds)
                                                  DEFLEC12B
AC1157 GEOID HEIGHT -
                           -24.87 (meters)
                                                  GEOID12B
AC1157 DYNAMIC HEIGHT -
                              1.247 (meters)
                                             4.09 (feet) COMP
AC1157 MODELED GRAVITY - 978,976.8 (mgal)
                                                      NAVD 88
AC1157
AC1157 VERT ORDER - FIRST CLASS II
AC1157
AC1157 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AC1157 Standards:
           FGDC (95% conf, cm) Standard deviation (cm)
AC1157
                                                   CorrNE
AC1157
            Horiz Ellip
                          SD N SD E SD h (unitless)
AC1157 -----
AC1157 NETWORK 2.86 4.33
                              1.12 1.21 2.21 -0.16270623
AC1157 -----
AC1157 Click here for local accuracies and other accuracy information.
AC1157
AC1157
AC1157. The horizontal coordinates were established by GPS observations
AC1157.and adjusted by the National Geodetic Survey in June 2012.
AC1157
AC1157.NAD 83(2011) refers to NAD 83 coordinates where the reference
AC1157.frame has been affixed to the stable North American tectonic plate. See
AC1157.NA2011 for more information.
AC1157
AC1157. The horizontal coordinates are valid at the epoch date displayed above
AC1157.which is a decimal equivalence of Year/Month/Day.
AC1157
AC1157. The orthometric height was determined by differential leveling and
AC1157.adjusted by the NATIONAL GEODETIC SURVEY
AC1157.in May 1994.
```

AC1157 AC1157.WARNING-Repeat measurements at this control monument indicate possible AC1157.vertical movement. AC1157 AC1157. The X, Y, and Z were computed from the position and the ellipsoidal ht. AC1157 AC1157. The Laplace correction was computed from DEFLEC12B derived deflections. AC1157 AC1157. The ellipsoidal height was determined by GPS observations AC1157.and is referenced to NAD 83. AC1157 AC1157. The dynamic height is computed by dividing the NAVD 88 AC1157.geopotential number by the normal gravity value computed on the AC1157.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45 AC1157.degrees latitude (g = 980.6199 gals.). AC1157 AC1157. The modeled gravity was interpolated from observed gravity values. AC1157. The following values were computed from the NAD 83(2011) position. AC1157 AC1157; East Units Scale Factor Converg. North AC1157;SPC FL E - 123,596.279 252,592.372 MT 0.99997532 +0 13 28.9 AC1157;SPC FL E - 405,498.79 828,713.47 sFT 0.99997532 +0 13 28.9 AC1157;UTM 17 - 2,814,686.090 552,574.428 MT 0.99963413 +0 13 28.9 AC1157 - Elev Factor x Scale Factor = Combined Factor AC1157! AC1157!SPC FL E - 1.00000372 x 0.99997532 = 0.99997904 $AC1157!UTM 17 - 1.00000372 \times 0.99963413 = 0.99963784$ AC1157 AC1157 SUPERSEDED SURVEY CONTROL AC1157 AC1157 NAD 83(2007)- 25 26 53.68925(N) 080 28 37.51314(W) AD(2002.00) 0 AC1157 ELLIP H (02/10/07) -23.622 (m) GP(2002.00) AC1157 NAD 83(1999)- 25 26 53.68929(N) 080 28 37.51333(W) AD() 1 AC1157 ELLIP H (12/12/02) -23.593 (m) GP() 4 1 AC1157 NAVD 88 (12/12/02) 1.25 (m) 4.1 (f) LEVELING 3 AC1157 NAVD 88 (06/15/91) 1.257 (m) 4.12 (f) SUPERSEDED 12 AC1157 NGVD 29 (??/??/92) 1.722 (m) 5.65 (f) SUPERSEDED 12 AC1157 NGVD 29 (09/01/92) 1.718 (m) 5.64 (f) ADJUSTED 12 AC1157 AC1157.Superseded values are not recommended for survey control. AC1157.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums. AC1157.See file dsdata.txt to determine how the superseded data were derived. AC1157 AC1157 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ5257414686(NAD 83) AC1157 AC1157 MARKER: DE = TRAVERSE STATION DISK AC1157 SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT AC1157_SP_SET: CONCRETE POST AC1157_STAMPING: DA 124 RESET 1963 AC1157 MARK LOGO: CGS AC1157 MAGNETIC: N = NO MAGNETIC MATERIAL AC1157 STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

```
AC1157+STABILITY: SURFACE MOTION
AC1157 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AC1157+SATELLITE: SATELLITE OBSERVATIONS - February 16, 2011
AC1157
AC1157 HISTORY - Date
                       Condition
                                  Report By
AC1157 HISTORY - 1963
                       MONUMENTED
                                        CGS
AC1157 HISTORY - 1966 GOOD
                                  CGS
AC1157 HISTORY - 1970 GOOD
                                  NGS
AC1157 HISTORY - 1978
                       GOOD
                                  NGS
AC1157 HISTORY - 1988
                       GOOD
                                   USPSQD
AC1157 HISTORY - 19910124 GOOD
                                    FLDNR
AC1157 HISTORY - 19930517 GOOD
                                    NGS
AC1157 HISTORY - 19940912 GOOD
                                    FLDEP
AC1157 HISTORY - 20020523 GOOD
                                    MAPTEC
AC1157 HISTORY - 20071003 GOOD
                                    DEGROV
AC1157 HISTORY - 20110216 GOOD
                                    MAPTEC
AC1157
AC1157
                 STATION DESCRIPTION
AC1157
AC1157'DESCRIBED BY COAST AND GEODETIC SURVEY 1966
AC1157'AT FLORIDA CITY.
AC1157'AT FLORIDA CITY, 151 FEET NORTH OF THE CENTER OF THE INTERSECTION
AC1157'OF KROME AVENUE AND PALM DRIVE, IN THE LAWN OF THE KEYS WAY
AC1157'MOTEL, 45.5 FEET WEST OF THE NORTHWEST CORNER OF CABIN NO. 1,
AC1157'28 FEET EAST OF THE CENTER LINE OF KROME AVENUE, 34 FEET NORTH
AC1157'OF THE CENTER LINE OF THE DRIVE LEADING TO MOTEL, 7 1/2 FEET
AC1157'NORTH OF A POWER POLE, ABOUT 1/2 FOOT BELOW THE LEVEL OF THE
AC1157'AVENUE AND SET IN THE TOP OF A CONCRETE POST 0.1 FOOT UNDERGROUND.
AC1157
AC1157
                 STATION RECOVERY (1970)
AC1157
AC1157'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1970
AC1157'RECOVERED IN GOOD CONDITION.
AC1157
AC1157
                 STATION RECOVERY (1978)
AC1157
AC1157'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1978
AC1157'RECOVERED IN GOOD CONDITION.
AC1157
AC1157
                 STATION RECOVERY (1988)
AC1157
AC1157'RECOVERY NOTE BY US POWER SQUADRON 1988 (TD)
AC1157'RECOVERED IN GOOD CONDITION.
AC1157
AC1157
                 STATION RECOVERY (1991)
AC1157
AC1157'RECOVERY NOTE BY FL DEPT OF NAT RES 1991
AC1157'RECOVERED IN GOOD CONDITION.
AC1157
AC1157
                 STATION RECOVERY (1993)
AC1157
AC1157'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1993
AC1157'IN FLORIDA CITY, AT THE INTERSECTION OF PALM DRIVE AND KRONE AVENUE,
AC1157'46.1 M (151.2 FT) NORTH OF THE CENTER OF THE DRIVE, 10.2 M (33.5 FT)
```

AC1157'NORTH OF THE CENTER OF A PAVED DRIVEWAY, $8.8~\mathrm{M}$ ($28.9~\mathrm{FT}$) EAST OF AND

AC1157'LEVEL WITH THE CENTERLINE OF THE AVENUE, 2.2 M (7.2 FT)

AC1157'NORTH-NORTHEAST OF UTILITY POLE NUMBER 453 HN 339, 0.4 M (1.3 FT)

AC1157'SOUTH OF A WITNESS POST, AND THE MONUMENT IS RECESSED 0.1 M (0.3 FT) AC1157'BELOW THE GROUND SURFACE.

AC1157

AC1157 STATION RECOVERY (1994)

AC1157

AC1157'RECOVERY NOTE BY FL DEPT OF ENV PRO 1994 (LGB)

AC1157'RECOVERED AS DESCRIBED.

AC1157

AC1157 STATION RECOVERY (2002)

AC1157

AC1157'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CDP)

AC1157'RECOVERED AS DESCRIBED.

AC1157' AC1157

AC1157 STATION RECOVERY (2007)

AC1157

AC1157'RECOVERY NOTE BY DEGROVE SURVEYORS INCORPORATED 2007

AC1157'RECOVERED AS DESCRIBED

AC1157

AC1157 STATION RECOVERY (2011)

AC1157

AC1157'RECOVERY NOTE BY MAPTECH INCORPORATED 2011 (JML)

AC1157'MOTEL NO LONGER EXISTS, CURRENTLY IS AN OPEN LOT. POINT IS 10.5 FEET AC1157'EAST OF THE EDGE OF PAVEMENT. 7.2 FEET NORTH OF A POWER POLE, AND AC1157'151.2 FEET NORTH OF PALM DRIVE.

Elapsed Time = 00:00:03

^{***} retrieval complete.

DATASHEETS Data Sheet Retrieval

The NGS Data Sheet

```
See file dsdata.txt for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.7
    National Geodetic Survey, Retrieval Date = JUNE 2, 2015
AB2362 DESIGNATION - EG 2
AB2362 PID
              - AB2362
AB2362 STATE/COUNTY- FL/MIAMI-DADE
AB2362 COUNTRY - US
AB2362 USGS QUAD - ROYAL PALM RANGER STATION (1979)
AB2362
AB2362
                  *CURRENT SURVEY CONTROL
AB2362
AB2362* NAD 83(2011) POSITION- 25 24 13.19499(N) 080 33 29.56502(W) ADJUSTED
AB2362* NAD 83(2011) ELLIP HT- -21.737 (meters)
                                               (06/27/12) ADJUSTED
AB2362* NAD 83(2011) EPOCH - 2010.00
AB2362* NAVD 88 ORTHO HEIGHT - 2.777 (meters)
                                                 9.11 (feet) ADJUSTED
AB2362
AB2362 NAD 83(2011) X - 945,714.486 (meters)
                                                   COMP
AB2362 NAD 83(2011) Y --5,686,854.818 (meters)
                                                   COMP
AB2362 NAD 83(2011) Z - 2,719,525.040 (meters)
                                                   COMP
AB2362 LAPLACE CORR -
                            -2.83 (seconds)
                                                  DEFLEC12B
AB2362 GEOID HEIGHT -
                           -24.53 (meters)
                                                  GEOID12B
AB2362 DYNAMIC HEIGHT -
                              2.773 (meters)
                                             9.10 (feet) COMP
AB2362 MODELED GRAVITY - 978,980.6 (mgal)
                                                      NAVD 88
AB2362
AB2362 VERT ORDER - FIRST
                               CLASS II
AB2362
AB2362 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AB2362 Standards:
           FGDC (95% conf, cm) Standard deviation (cm)
AB2362
                                                   CorrNE
AB2362
            Horiz Ellip
                          SD N SD E SD h (unitless)
AB2362 -----
AB2362 NETWORK 3.28 4.70 1.35 1.33 2.40 -0.02810539
AB2362 -----
AB2362 Click here for local accuracies and other accuracy information.
AB2362
AB2362
AB2362. The horizontal coordinates were established by GPS observations
AB2362.and adjusted by the National Geodetic Survey in June 2012.
AB2362
AB2362.NAD 83(2011) refers to NAD 83 coordinates where the reference
AB2362.frame has been affixed to the stable North American tectonic plate. See
AB2362.NA2011 for more information.
AB2362
AB2362. The horizontal coordinates are valid at the epoch date displayed above
AB2362.which is a decimal equivalence of Year/Month/Day.
AB2362
AB2362. The orthometric height was determined by differential leveling and
AB2362.adjusted by the NATIONAL GEODETIC SURVEY
AB2362.in April 1996.
```

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AB2362
AB2362. Photographs are available for this station.
AB2362. The X, Y, and Z were computed from the position and the ellipsoidal ht.
AB2362. The Laplace correction was computed from DEFLEC12B derived deflections.
AB2362
AB2362. The ellipsoidal height was determined by GPS observations
AB2362.and is referenced to NAD 83.
AB2362
AB2362. The dynamic height is computed by dividing the NAVD 88
AB2362.geopotential number by the normal gravity value computed on the
AB2362.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AB2362.degrees latitude (g = 980.6199 gals.).
AB2362
AB2362. The modeled gravity was interpolated from observed gravity values.
AB2362
AB2362. The following values were computed from the NAD 83(2011) position.
AB2362
AB2362;
                  North
                           East Units Scale Factor Converg.
AB2362;SPC FL E - 118,628.231 244,449.338 MT 0.99996557 +0 11 22.3
AB2362;SPC FL E - 389,199.45 801,997.54 sFT 0.99996557 +0 11 22.3
AB2362;UTM 17 - 2,809,719.737 544,434.172 MT 0.99962438 +0 11 22.3
AB2362
AB2362!
              - Elev Factor x Scale Factor = Combined Factor
AB2362!SPC FL E - 1.00000342 x 0.99996557 = 0.99996899
AB2362!UTM 17 - 1.00000342 x 0.99962438 = 0.99962779
AB2362
AB2362
                    SUPERSEDED SURVEY CONTROL
AB2362
AB2362 NAD 83(2007)- 25 24 13.19515(N)
                                        080 33 29.56550(W) AD(2002.00) 0
AB2362 ELLIP H (02/10/07) -21.723 (m)
                                                GP(2002.00)
AB2362 NAD 83(1999)- 25 24 13.19519(N)
                                        080 33 29.56555(W) AD(
                                                                 ) 1
AB2362 ELLIP H (12/12/02) -21.711 (m)
                                                GP(
                                                      ) 4 1
AB2362 NAVD 88 (12/12/02) 2.78 (m)
                                          9.1 (f) LEVELING 3
AB2362
AB2362.Superseded values are not recommended for survey control.
AB2362
AB2362.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AB2362.See file dsdata.txt to determine how the superseded data were derived.
AB2362
AB2362_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ4443409719(NAD 83)
AB2362
AB2362 MARKER: DD = SURVEY DISK
AB2362 SETTING: 36 = SET IN A MASSIVE STRUCTURE
AB2362 SP SET: BRIDGE CURB
AB2362 STAMPING: EG 2
AB2362 MARK LOGO: FLDT
AB2362 MAGNETIC: N = NO MAGNETIC MATERIAL
AB2362 STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AB2362_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AB2362+SATELLITE: SATELLITE OBSERVATIONS - June 14, 2012
AB2362
AB2362 HISTORY - Date
                           Condition
                                        Report By
```

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AB2362 HISTORY
                - UNK
                        MONUMENTED
                                         FLDT
AB2362 HISTORY
                - 19940916 GOOD
                                     FLDEP
AB2362 HISTORY
                - 20020523 GOOD
                                     MAPTEC
AB2362 HISTORY - 20030930 GOOD
                                     WEIDEN
AB2362 HISTORY - 20081002 GOOD
                                     GCT
AB2362 HISTORY - 20091209 GOOD
                                     DCPWD
AB2362 HISTORY - 20120614 GOOD
                                     INDIV
AB2362
AB2362
                  STATION DESCRIPTION
AB2362
AB2362'DESCRIBED BY FL DEPT OF ENV PRO 1994 (LGB)
AB2362'THE MARK IS ABOUT 5.7 MI (9.2 KM) SOUTHWEST OF FLORIDA CITY IN SECTION
AB2362'6, TOWNSHIP 58 SOUTH, RANGE 38 EAST. TO REACH THE MARK FROM THE
AB2362'INTERSECTION OF U.S. HIGHWAY 1 AND PALM DRIVE (SW. 3 STREET) IN
AB2362'FLORIDA CITY, GO WEST ON PALM DRIVE (STATE ROAD 27, SW. 3 STREET) FOR
AB2362'1.7 MI (2.7 KM) TO THE INTERSECTION OF TOWER ROAD (SW. 192 AVENUE),
AB2362'TURN LEFT ON TOWER ROAD (STATE ROAD 27, SW 192 AVENUE) AND GO SOUTH
AB2362'FOR 2.1 MI (3.4 KM) TO THE JUNCTION OF SW. 376 STREET (STATE ROAD 27)
AB2362'ON THE RIGHT, TURN RIGHT ON SW. 376 STREET (STATE ROAD 27) AND GO WEST
AB2362'FOR 4.05 MI (6.52 KM) TO A BRIDGE WITH A WATER CONTROL GATE AND THE
AB2362'MARK ON THE RIGHT, SET FLUSH IN THE NORTHEAST CORNER OF THE BRIDGE
AB2362'CURB AND 1.2 FT (0.4 M) ABOVE THE LEVEL OF SW. 376 STREET (STATE ROAD
AB2362'27) . LOCATED 103.2 FT (31.5 M) EAST OF THE WEST END OF THE CONCRETE
AB2362'BRIDGE GAURDRAIL, 23.2 FT (7.1 M) NORTH OF THE APPROXIMATE CENTERLINE
AB2362'OF SW. 376 STREET (STATE ROAD 27) AND 4.5 FT (1.4 M) WEST OF THE EAST
AB2362'END OF THE CONCRETE BRIDGE GAURDRAIL.
AB2362
AB2362
                  STATION RECOVERY (2002)
AB2362
AB2362'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CDP)
AB2362'RECOVERED AS DESCRIBED.
AB2362'
AB2362
AB2362
                  STATION RECOVERY (2003)
AB2362
AB2362'RECOVERY NOTE BY WEIDENER SURVEYING AND MAPPING 2003 (MM)
AB2362'RECOVERED AS DESCRIBED
AB2362
AB2362
                  STATION RECOVERY (2008)
AB2362
AB2362'RECOVERY NOTE BY GUSTIN, COTHERN, AND TUCKER, I 2008
AB2362'RECOVERED IN GOOD CONDITION.
AB2362
AB2362
                  STATION RECOVERY (2009)
AB2362
AB2362'RECOVERY NOTE BY DADE COUNTY PUBLIC WORKS DEPARTMENT 2009 (MJW)
AB2362'RECOVERED IN GOOD CONDITION.
AB2362
AB2362
                  STATION RECOVERY (2012)
AB2362
AB2362'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2012 (SU)
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*** retrieval complete.

AB2362'RECOVERED AS DESCRIBED

DATASHEETS Data Sheet Retrieval

The NGS Data Sheet

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See file dsdata.txt for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.7
    National Geodetic Survey, Retrieval Date = JUNE 2, 2015
AJ8393 DESIGNATION - H 504
              - AJ8393
AJ8393 PID
AJ8393 STATE/COUNTY- FL/MIAMI-DADE
AJ8393 COUNTRY - US
AJ8393 USGS QUAD - ROYAL PALM RANGER STATION (1979)
AJ8393
AJ8393
                   *CURRENT SURVEY CONTROL
AJ8393
AJ8393* NAD 83(1986) POSITION- 25 29 05.
                                        (N) 080 33 49.
                                                       (W) SCALED
AJ8393* NAVD 88 ORTHO HEIGHT - 2.898 (meters)
                                                   9.51 (feet) ADJUSTED
AJ8393
AJ8393 GEOID HEIGHT -
                            -24.61 (meters)
                                                   GEOID12B
AJ8393 DYNAMIC HEIGHT -
                               2.893 (meters)
                                               9.49 (feet) COMP
AJ8393 MODELED GRAVITY - 978,987.8 (mgal)
                                                        NAVD 88
AJ8393
AJ8393 VERT ORDER
                      - FIRST
                                CLASS II
AJ8393
AJ8393. The horizontal coordinates were scaled from a topographic map and have
AJ8393.an estimated accuracy of +/- 6 seconds.
AJ8393.
AJ8393. The orthometric height was determined by differential leveling and
AJ8393.adjusted by the NATIONAL GEODETIC SURVEY
AJ8393.in June 2002.
AJ8393
AJ8393. The dynamic height is computed by dividing the NAVD 88
AJ8393.geopotential number by the normal gravity value computed on the
AJ8393.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AJ8393.degrees latitude (g = 980.6199 gals.).
AJ8393
AJ8393. The modeled gravity was interpolated from observed gravity values.
AJ8393
AJ8393:
                 North
                          East Units Estimated Accuracy
AJ8393;SPC FL E - 127,610.
                             243,880.
                                       MT (+/- 180 meters Scaled)
AJ8393
AJ8393
                   SUPERSEDED SURVEY CONTROL
AJ8393
AJ8393.No superseded survey control is available for this station.
AJ8393
AJ8393 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ438186(NAD 83)
AJ8393
AJ8393 MARKER: DD = SURVEY DISK
AJ8393_SETTING: 36 = SET IN A MASSIVE STRUCTURE
AJ8393 SP SET: FLOOD GATE STRUCTURE
AJ8393 STAMPING: H 504 2000
AJ8393 MARK LOGO: FLDEP
```

AJ8393 MAGNETIC: N = NO MAGNETIC MATERIAL

AJ8393 STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

AJ8393_SATELLITE: THE SITE LOCATION WAS REPORTED AS NOT SUITABLE FOR

AJ8393+SATELLITE: SATELLITE OBSERVATIONS - 2000

AJ8393

AJ8393 HISTORY - Date Condition Report By AJ8393 HISTORY - 2000 MONUMENTED FLDEP

AJ8393

AJ8393 STATION DESCRIPTION

AJ8393

AJ8393'DESCRIBED BY FL DEPT OF ENV PRO 2000 (JLM)

AJ8393'THE MARK IS ABOUT 7.7 MI (12.4 KM) WEST OF HOMESTEAD, 6.7 MI (10.8 KM) AJ8393'WEST OF FLORIDA CITY, IN SECTION 7, TOWNSHIP 57 SOUTH, RANGE 38 EAST. AJ8393'TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY 1 (SOUTH AJ8393'DIXIE HIGHWAY) AND PALM DRIVE (STATE ROAD 9336, SOUTHWEST 344TH AJ8393'STREET) IN FLORIDA CITY, GO WEST ON PALM DRIVE (STATE ROAD 9336, AJ8393'SOUTHWEST 344TH STREET) FOR 1.7 MI (2.7 KM) TO THE JUNCTION OF AJ8393'SOUTHWEST 192TH AVENUE (TOWER ROAD, STATE ROAD 9336) TURN LEFT ON AJ8393'SOUTHWEST 192TH AVENUE (TOWER ROAD, STATE ROAD 9336) AND GO SOUTH FOR AJ8393'2.1 MI (3.4 KM) TO THE JUNCTION OF SOUTHWEST 376TH STREET (STATE ROAD AJ8393'9336, INGRAHAM HIGHWAY) ON THE RIGHT, TURN RIGHT ON SOUTHWEST 376TH AJ8393'STREET (STATE ROAD 9336, INGRAHAM HIGHWAY) AND GO WEST FOR 4.95 MI AJ8393'(7.97 KM) TO THE EAST END OF BRIDGE NUMBER 870081 1969 SPANNING CANAL AJ8393'31, TURN RIGHT ON THE LEVEE ROAD ON THE EAST SIDE OF CANAL 31 AND GO AJ8393'NORTH FOR 8.5 MI (13.7 KM) TO A PUMP HOUSE, TURN LEFT ON THE EAST SIDE AJ8393'OF THE PUMP HOUSE AND GO NORTH FOR 0.1 MI (0.2 KM) TO A SET OF DOUBLE AJ8393'LOCKED GATES, PASSING THROUGH THE GATES TO THE MARK ON THE LEFT, SET AJ8393'FLUSH IN THE TOP OF THE NORTHWEST CORNER OF FLOOD GATE STRUCTURE AJ8393'NUMBER S174 LEVEL WITH THE STRUCTURE AND LEVEL WITH THE LEVEE ROAD. AJ8393'LOCATED 10.3 FT (3.1 M) WEST OF THE APPROXIMATE CENTERLINE OF THE AJ8393'LEVEE ROAD, 3.1 FT (0.9 M) SOUTH OF THE SOUTH END OF A GUARDRAIL AND AJ8393'0.7 FT (21.3 CM) EAST OF THE NORTHWEST CORNER OF THE FLOOD GATE. NOTE AJ8393'FOR KEY CONTACT SOUTH FLORIDA WATER MANAGEMENT DISTRICT AT 2195 AJ8393'NORTHEAST 8TH STREET HOMESTEAD, FL 33033, PHONE 305-242-5955.

*** retrieval complete.

DATASHEETS Data Sheet Retrieval

The NGS Data Sheet

```
See file dsdata.txt for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.7
    National Geodetic Survey, Retrieval Date = JUNE 2, 2015
AB2358 DESIGNATION - PR 16
AB2358 PID
              - AB2358
AB2358 STATE/COUNTY- FL/MIAMI-DADE
AB2358 COUNTRY - US
AB2358 USGS QUAD - ROYAL PALM RANGER STATION (1979)
AB2358
AB2358
                  *CURRENT SURVEY CONTROL
AB2358
AB2358* NAD 83(2011) POSITION- 25 24 29.67248(N) 080 31 26.30075(W) ADJUSTED
AB2358* NAD 83(2011) ELLIP HT- -23.097 (meters)
                                               (06/27/12) ADJUSTED
AB2358* NAD 83(2011) EPOCH - 2010.00
AB2358* NAVD 88 ORTHO HEIGHT - 1.519 (meters)
                                                 4.98 (feet) ADJUSTED
AB2358
AB2358 NAD 83(2011) X - 949,076.777 (meters)
                                                   COMP
AB2358 NAD 83(2011) Y --5,686,072.863 (meters)
                                                   COMP
AB2358 NAD 83(2011) Z - 2,719,982.463 (meters)
                                                   COMP
AB2358 LAPLACE CORR -
                            -3.01 (seconds)
                                                  DEFLEC12B
                           -24.64 (meters)
AB2358 GEOID HEIGHT -
                                                  GEOID12B
AB2358 DYNAMIC HEIGHT -
                              1.517 (meters)
                                             4.98 (feet) COMP
AB2358 MODELED GRAVITY - 978,979.7 (mgal)
                                                      NAVD 88
AB2358
AB2358 VERT ORDER - FIRST CLASS II
AB2358
AB2358 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AB2358 Standards:
           FGDC (95% conf, cm) Standard deviation (cm)
AB2358
                                                   CorrNE
AB2358
            Horiz Ellip
                          SD N SD E SD h (unitless)
AB2358 -----
AB2358 NETWORK 4.06 5.29
                              1.57 1.73 2.70 -0.19093875
AB2358 -----
AB2358 Click here for local accuracies and other accuracy information.
AB2358
AB2358
AB2358. The horizontal coordinates were established by GPS observations
AB2358.and adjusted by the National Geodetic Survey in June 2012.
AB2358
AB2358.NAD 83(2011) refers to NAD 83 coordinates where the reference
AB2358.frame has been affixed to the stable North American tectonic plate. See
AB2358.NA2011 for more information.
AB2358
AB2358. The horizontal coordinates are valid at the epoch date displayed above
AB2358.which is a decimal equivalence of Year/Month/Day.
AB2358
AB2358. The orthometric height was determined by differential leveling and
AB2358.adjusted by the NATIONAL GEODETIC SURVEY
AB2358.in April 1996.
```

AB2358 AB2358. The X, Y, and Z were computed from the position and the ellipsoidal ht. AB2358. The Laplace correction was computed from DEFLEC12B derived deflections. AB2358. The ellipsoidal height was determined by GPS observations AB2358.and is referenced to NAD 83. AB2358 AB2358. The dynamic height is computed by dividing the NAVD 88 AB2358.geopotential number by the normal gravity value computed on the AB2358.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45 AB2358.degrees latitude (g = 980.6199 gals.). AB2358 AB2358. The modeled gravity was interpolated from observed gravity values. AB2358. The following values were computed from the NAD 83(2011) position. AB2358 AB2358; North East Units Scale Factor Converg. AB2358;SPC FL E - 119,147.094 247,892.558 MT 0.99996949 +0 12 15.3 AB2358;SPC FL E - 390,901.76 813,294.17 sFT 0.99996949 +0 12 15.3 AB2358;UTM 17 - 2,810,238.423 547,876.217 MT 0.99962830 +0 12 15.3 AB2358 AB2358! - Elev Factor x Scale Factor = Combined Factor AB2358!SPC FL E $- 1.00000363 \times 0.99996949 = 0.99997312$ AB2358!UTM 17 - 1.00000363 x 0.99962830 = 0.99963193 AB2358 SUPERSEDED SURVEY CONTROL AB2358 AB2358 AB2358 NAD 83(2007)- 25 24 29.67264(N) 080 31 26.30102(W) AD(2002.00) 0 AB2358 ELLIP H (02/10/07) -23.080 (m) GP(2002.00) AB2358 NAD 83(1999)- 25 24 29.67270(N) 080 31 26.30111(W) AD() 1 AB2358 ELLIP H (12/12/02) -23.064 (m) GP() 4 1 AB2358 NAVD 88 (12/12/02) 1.52 (m) 5.0 (f) LEVELING 3 AB2358 AB2358.Superseded values are not recommended for survey control. AB2358 AB2358.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums. AB2358.See file dsdata.txt to determine how the superseded data were derived. AB2358 AB2358_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ4787610238(NAD 83) AB2358 AB2358 MARKER: DD = SURVEY DISK AB2358 SETTING: 32 = SET IN A RETAINING WALL OR CONCRETE LEDGE AB2358 SP SET: WATER GATE HEADWALL AB2358_STAMPING: PR 16 1979 AB2358 MARK LOGO: FLDEP AB2358 MAGNETIC: N = NO MAGNETIC MATERIAL AB2358 STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO AB2358+STABILITY: SURFACE MOTION AB2358 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR AB2358+SATELLITE: SATELLITE OBSERVATIONS - April 01, 2015 AB2358 AB2358 HISTORY - Date Report By Condition AB2358 HISTORY - 1979 MONUMENTED **FLDEP**

AB2358 HISTORY - 19940913 GOOD FLDEP
AB2358 HISTORY - 20020523 GOOD MAPTEC
AB2358 HISTORY - 20071003 GOOD DEGROV
AB2358 HISTORY - 20081002 MARK NOT FOUND GCT
AB2358 HISTORY - 20150401 GOOD SFLWMD

AB2358

AB2358 STATION DESCRIPTION

AB2358

AB2358'DESCRIBED BY FL DEPT OF ENV PRO 1994 (LGB)

AB2358'MARK IS ABOUT 3.9 MI (6.3 KM) SOUTHWEST OF FLORIDA CITY IN SECTION 3, AB2358'TOWNSHIP 58 SOUTH, RANGE 38 EAST. TO REACH THE MARK FROM THE AB2358'INTERSECTION OF U.S. HIGHWAY 1 AND PALM DRIVE (SW. 3 STREET) IN AB2358'FLORIDA CITY, GO WEST ON PALM DRIVE (STATE ROAD 27, SW. 3 STREET) FOR AB2358'1.7 MI (2.7 KM) TO THE INTERSECTION OF TOWER ROAD (SW. 192 AVENUE), AB2358'TURN LEFT ON TOWER ROAD (STATE ROAD 27, SW 192 AVENUE) AND GO SOUTH AB2358'FOR 2.1 MI (3.4 KM) TO THE JUNCTION OF SW. 376 STREET (STATE ROAD 27) AND GO WEST AB2358'ON THE RIGHT, TURN RIGHT ON SW. 376 STREET (STATE ROAD 27) AND GO WEST AB2358'FOR 1.75 MI (2.82 KM) TO A BRIDGE WITH A WATER CONTROL GATE AND THE AB2358'MARK ON THE RIGHT, SET FLUSH IN THE NORTHEAST HEADWALL OF THE BRIDGE AB2358'AND ABOUT LEVEL WITH SW. 376 STREET (STATE ROAD 27) . LOCATED 123.3 AB2358'FT (37.6 M) NORTHWEST OF THE APPROXIMATE CENTERLINE OF SW. 376 STREET AB2358'(STATE ROAD 27) , 23.3 FT (7.1 M) NORTHEAST OF THE SOUTHWEST EDGE OF AB2358'THE GATE AND 0.75 FT (22.86 CM) SOUTHWEST OF THE NORTHWEST EDGE OF THE AB2358'GATE.

AB2358

AB2358 STATION RECOVERY (2002)

AB2358

AB2358'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CDP)

AB2358'RECOVERED AS DESCRIBED.

AB2358' AB2358

AB2358 STATION RECOVERY (2007)

AB2358

AB2358'RECOVERY NOTE BY DEGROVE SURVEYORS INCORPORATED 2007

AB2358'RECOVERED AS DESCRIBED

AB2358

AB2358 STATION RECOVERY (2008)

AB2358

AB2358'RECOVERY NOTE BY GUSTIN, COTHERN, AND TUCKER, I 2008

AB2358'MARK NOT FOUND.

AB2358

AB2358 STATION RECOVERY (2015)

AB2358

AB2358'RECOVERY NOTE BY S FL WATER MGMT DIST 2015

AB2358'RECOVERED IN GOOD CONDITION.

*** retrieval complete.

DATASHEETS Data Sheet Retrieval

The NGS Data Sheet

```
See file dsdata.txt for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.7
    National Geodetic Survey, Retrieval Date = JUNE 2, 2015
AC1151 DESIGNATION - T 316
AC1151 PID
               - AC1151
AC1151 STATE/COUNTY- FL/MIAMI-DADE
AC1151 COUNTRY - US
AC1151 USGS QUAD - HOMESTEAD (1994)
AC1151
AC1151
                   *CURRENT SURVEY CONTROL
AC1151
AC1151* NAD 83(1990) POSITION- 25 23 20.84478(N) 080 26 41.25208(W) ADJUSTED
AC1151* NAVD 88 ORTHO HEIGHT - 1.326 (meters)
                                                   4.35 (feet) ADJUSTED
AC1151
AC1151 LAPLACE CORR -
                              -3.29 (seconds)
                                                     DEFLEC12B
AC1151 GEOID HEIGHT -
                            -24.85 (meters)
                                                    GEOID12B
                                1.324 (meters)
AC1151 DYNAMIC HEIGHT -
                                                4.34 (feet) COMP
AC1151 MODELED GRAVITY - 978,976.3 (mgal)
                                                         NAVD 88
AC1151
AC1151 HORZ ORDER
                       - SECOND
AC1151 VERT ORDER
                       - SECOND CLASS 0
AC1151
AC1151. The horizontal coordinates were established by classical geodetic methods
AC1151.and adjusted by the National Geodetic Survey in May 1991.
AC1151. The orthometric height was determined by differential leveling and
AC1151.adjusted by the NATIONAL GEODETIC SURVEY
AC1151.in June 1991.
AC1151
AC1151. The Laplace correction was computed from DEFLEC12B derived deflections.
AC1151. The dynamic height is computed by dividing the NAVD 88
AC1151.geopotential number by the normal gravity value computed on the
AC1151.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AC1151.degrees latitude (g = 980.6199 gals.).
AC1151
AC1151. The modeled gravity was interpolated from observed gravity values.
AC1151
AC1151. The following values were computed from the NAD 83(1990) position.
AC1151
AC1151;
                 North
                          East
                                Units Scale Factor Converg.
AC1151;SPC FL E - 117,059.957 255,867.731 MT 0.99997970 +0 14 17.0
AC1151;SPC FL E - 384,054.21 839,459.38 sFT 0.99997970 +0 14 17.0
AC1151:UTM 17
                 - 2,808,151.998 555,848.669 MT 0.99963852 +0 14 17.0
AC1151
              - Elev Factor x Scale Factor = Combined Factor
AC1151!
AC1151!SPC FL E - 1.00000370 x 0.99997970 = 0.99998340
AC1151!UTM 17 - 1.00000370 \times 0.99963852 = 0.99964222
```

AC1151

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AC1151
                  SUPERSEDED SURVEY CONTROL
AC1151
AC1151 NAD 83(1986)- 25 23 20.84391(N) 080 26 41.24949(W) AD(
AC1151 NAD 27 - 25 23 19.43342(N) 080 26 42.04758(W) AD(
                                                        ) 2
AC1151 NGVD 29 (??/??/92) 1.791 (m)
                                     5.88 (f) ADJ UNCH 20
AC1151 NGVD 29 (07/19/86) 1.79 (m)
                                     5.9 (f) LEVELING 3
AC1151
AC1151.Superseded values are not recommended for survey control.
AC1151
AC1151.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AC1151.See file dsdata.txt to determine how the superseded data were derived.
AC1151
AC1151 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ5584808151(NAD 83)
AC1151
AC1151 MARKER: DB = BENCH MARK DISK
AC1151_SETTING: 46 = COPPER-CLAD STEEL ROD W/O SLEEVE (10 FT.+)
AC1151 SP SET: 12.8 FEET
AC1151 STAMPING: T 316 1970
AC1151 STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AC1151 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AC1151+SATELLITE: SATELLITE OBSERVATIONS - June 15, 2007
AC1151
AC1151 HISTORY
                 - Date
                        Condition
                                   Report By
AC1151 HISTORY - 1970
                        MONUMENTED
                                         NGS
AC1151 HISTORY - 1972
                        GOOD
                                   NGS
AC1151 HISTORY - 1972
                        GOOD
                                   NGS
AC1151 HISTORY
                - 1982
                        GOOD
                                   LOCSUR
                 - 1986
AC1151 HISTORY
                        GOOD
                                   USPSQD
AC1151 HISTORY - 1987
                        GOOD
                                   USPSQD
AC1151 HISTORY
                - 1987
                        POOR
                                   USPSQD
AC1151 HISTORY
                 - 1988
                        GOOD
                                   USPSQD
AC1151 HISTORY
                 - 1988
                        GOOD
                                   USPSQD
AC1151 HISTORY - 1989
                        GOOD
                                   USPSQD
AC1151 HISTORY
                 - 19901230 GOOD
                                     USPSQD
AC1151 HISTORY
                 - 19940813 GOOD
                                     USPSQD
AC1151 HISTORY - 20070615 GOOD
                                     DCPWD
AC1151
AC1151
                  STATION DESCRIPTION
AC1151
AC1151'DESCRIBED BY NATIONAL GEODETIC SURVEY 1970
AC1151'3.7 MI SE FROM FLORIDA CITY.
AC1151'ABOUT 3.7 MILES SOUTHEAST ALONG CARD SOUND ROAD FROM THE JUNCTION
AC1151'OF U.S. HIGHWAY 1 AT FLORIDA CITY, BETWEEN THE LANES OF A
AC1151'DRIVEWAY WHICH LEADS SOUTHWEST TO THE FLORIDA ROCK AND SAND CO.,
AC1151'(THE PLANT IS AT 15900 SW 408 TH STREET), 143 FEET SOUTHWEST OF
AC1151'THE CENTER LINE OF THE ROAD, 13 1/2 FEET SOUTHEAST OF THE CENTER
AC1151'LINE OF THE NORTHWEST DRIVE, 1 FOOT NORTHEAST OF A CONCRETE
AC1151'LIGHT POLE, 0.4 FOOT NORTHEAST OF A METAL WITNESS POST, ABOUT
AC1151'LEVEL WITH THE ROAD AND IS A DISK ON THE TOP OF A COPPER COATED
AC1151'STEEL ROD WHICH PROJECTS 2 INCHES ABOVE THE LEVEL OF THE GROUND
AC1151'AND PROTECTED BY A 4 INCH METAL PIPE WHICH PROJECTS 3 INCHES
AC1151'ABOVE THE GROUND. THE ROD WAS DRIVEN TO REFUSAL AT A DEPTH OF
AC1151'12.8 FEET.
AC1151
```

AC1151 STATION RECOVERY (1972) AC1151 AC1151'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1972 **AC1151'SEE STATION IDA** AC1151 AC1151 STATION RECOVERY (1972) AC1151 AC1151'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1972 AC1151'RECOVERED IN GOOD CONDITION. AC1151 AC1151 STATION RECOVERY (1982) AC1151 AC1151'RECOVERY NOTE BY LOCAL SURVEYOR (INDIVIDUAL OR FIRM) 1982 AC1151'ABOUT 3.7 MILES SOUTHEAST ON CARD SOUND ROAD FROM JUNCTION OF U.S. AC1151'HWY 1 AT FLORIDA CITY. AC1151 AC1151 STATION RECOVERY (1986) AC1151 AC1151'RECOVERY NOTE BY US POWER SQUADRON 1986 (LEM) AC1151'RECOVERED IN GOOD CONDITION. AC1151 AC1151 STATION RECOVERY (1987) AC1151 AC1151'RECOVERY NOTE BY US POWER SQUADRON 1987 (TD) AC1151'RECOVERED IN GOOD CONDITION. AC1151 AC1151 STATION RECOVERY (1987) AC1151 AC1151'RECOVERY NOTE BY US POWER SQUADRON 1987 (LEM) AC1151'MARK RECOVERED IN POOR CONDITION. AC1151 AC1151 STATION RECOVERY (1988) AC1151 AC1151'RECOVERY NOTE BY US POWER SQUADRON 1988 (LEM) AC1151'RECOVERED IN GOOD CONDITION. AC1151 AC1151 STATION RECOVERY (1988) AC1151 AC1151'RECOVERY NOTE BY US POWER SQUADRON 1988 (TD) AC1151'RECOVERED IN GOOD CONDITION. AC1151 AC1151 STATION RECOVERY (1989) AC1151 AC1151'RECOVERY NOTE BY US POWER SQUADRON 1989 (TD) AC1151'RECOVERED IN GOOD CONDITION. AC1151 AC1151 STATION RECOVERY (1990) AC1151 AC1151'RECOVERY NOTE BY US POWER SQUADRON 1990 (LEM) AC1151'RECOVERED IN GOOD CONDITION. AC1151 STATION RECOVERY (1994) AC1151 AC1151 AC1151'RECOVERY NOTE BY US POWER SQUADRON 1994

AC1151'RECOVERED IN GOOD CONDITION.

AC1151

AC1151 STATION RECOVERY (2007)

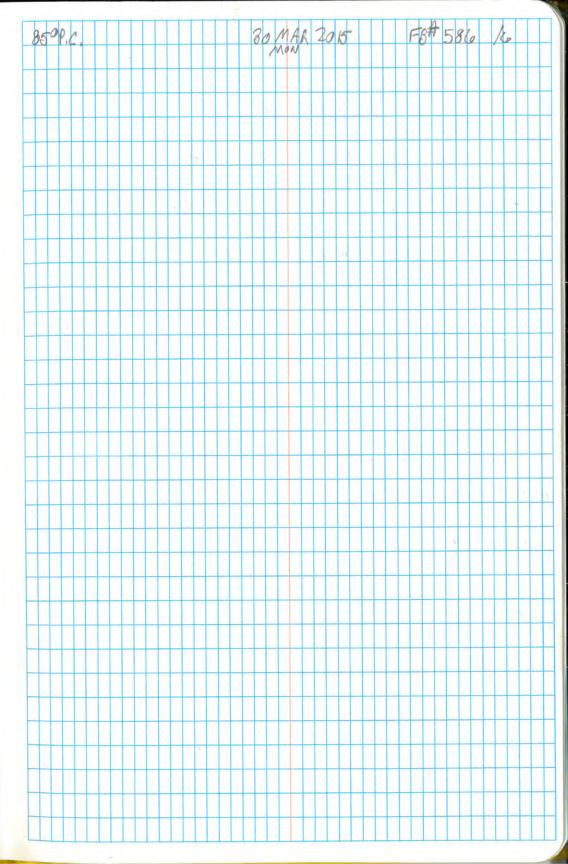
AC1151

AC1151'RECOVERY NOTE BY DADE COUNTY PUBLIC WORKS DEPARTMENT 2007 (MJW) AC1151'RECOVERED IN GOOD CONDITION.

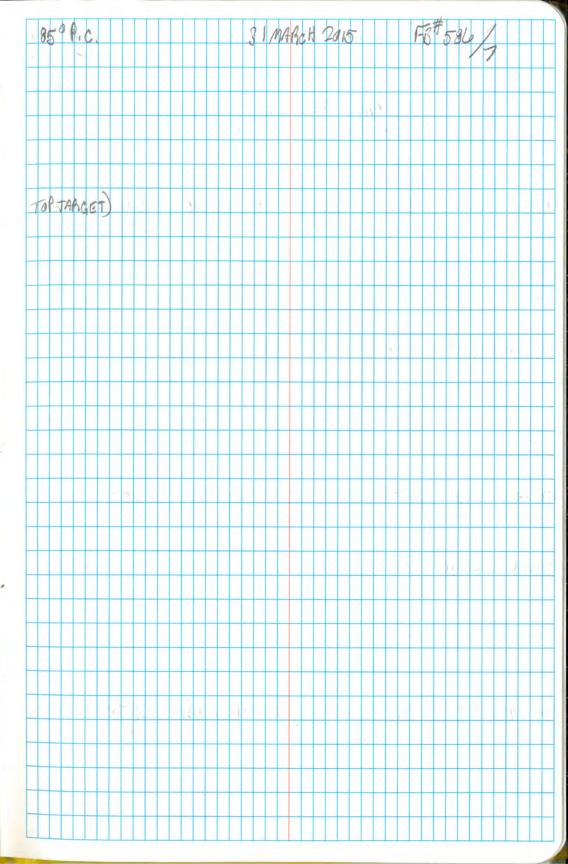
*** retrieval complete.

FIELD NOTES

31211297.07	JEWMD C-111 LIDAR	V. FRIEND
129107 mga1	SET ATS	CLANTON
7717		B. JONES
	BAJE@ EG 2 HI = 4,50	
GB#	DEJC	-1
10500	CHIS DA 124 BESET D= 0.058 F=0.0	19'
10000A T3	FOUND NAIL & DISK PLS CANT BEAD N	UnBER
10501-10503	ACI (ASPH)	
10509-10516	ACZ (ASPH)	
		-~
1000 IA T9	SET MAG NAIL + GRO TRAN DUK LB 790	00
10517A-10521A	AC3 (AJRH)	
10002A TIO	FOUND SMALL PK NAIL NOID	
10525A-10532A	ACH (ASPH)	
10533A-10540A	ACS (ASPH)	
10003A T8	IRC SET 5/8" GR/THAV LB7055 (+	0.06)
10541A - 10549A	Acle (Back)	
10550A - 1055 7A	/ ^	
	, and the second	
,		



0.0.1000		T 0 1 11 / 12/0	J. FRIEND
31211297		SET AU	T. CLANTON
129101	101	001 710	B. JONES
		BAJE DEG 2 HI: 4,38	
GB#		DESC	
10558		CHK PBIG D=0.091' F=0.043'	
10004A	17	IBC JET 5/8" G PS TBAY 48 7055 (0.13) FR	Sam MAP TO
105594-	10567A	ACO (ROCK RD)	
10905A	The	IRC JET 5/8" GR TRAV LB 7055 (+0,13')	
10548A	-10576A	AC9 (ROCK RD)	
1000 LA	TI	IRC JET 5/8" GPSTRAY LB 7055 (+0.13")-
10577A	-10585A	ACIO (ROCK RD)	
(0007A	12	SET MAG NAIL & GPS TRAV DUK LB 7055	>
10586A	- 10593A	Acn (ASPH)	
	- 10601A	AC12 (BOCK)	
10008A	74	IRC SET 5/8" GB TRAV LB7055 (+0.1	3')
10G02A	-106109	ACB (ROCK)	
1000 9A	T5	SETMAG NAIL & GROTHAY DUK LB705	75
IOGHA-	106184	ACIU (ASPH)	



31211297	07	SEWMD C	-111 LIDA	R	,	V.FBIEND
	E	ENCHRUN FROM	EG2 NOT	ATH TO PI	316 (NAVD83)	
Bm	35	DIETBK	F	DUT FR	ELEV	(MAYOSS)
EG2	2.661	245				9.11
586-8-1	5.169	250	6.757	24le'	5.014	5.015
586-8-2	4.967	254	5,447	253'	4,736	4,738
5816-8-3	4.077	255 `	5,049	254'	4.654	4.657
586-8-4 (5)	4.714	249'	4,473	254'	4.253	4.258
586-8-5	5,559	251	3,810	247!	5,157	5,163
586-8-6	4.185	250'	4.823	250'	5.893	5,900
586-8-7 (a)	3.784	253	4.444	246'	5.634 3523	5,642
584-8-8	3 4.573	250'	4.444	255'	4,974	4,983
586-8-9	4,949	247'	3,538	252'	6,009	6.019

97° P.C.	2APRIL 2015	F\$# 086
DEC		
TET NAIL & THE MER SWE	92° ST (ING BAHM	14 cm
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
h ti li	L)	
SET NAIL & T/T N. El SW 3924	PST COD = E OF C	L JU 224th AVE (GRANE)
SETWAILT THE SW 3	4150 57	
JET MAG NAIL + GRS/TRA 325 /= W. OF SW 2227 A	W DIJK LB 7055 VE (GRAVEL)	N. EP JW 39200 ST.
SET NAME THE N. E PSW392	Pst, 175'= E, of	sw 2225 AVE
SET NAIL ATT NEP SW ?	392 kg 5T	
SET MAG WALL & GPS /TRAV	DIVIA LB 7055 N. EY	0 SW 3922 ST
SET MAIL & THE M. EP SU	39249 57	

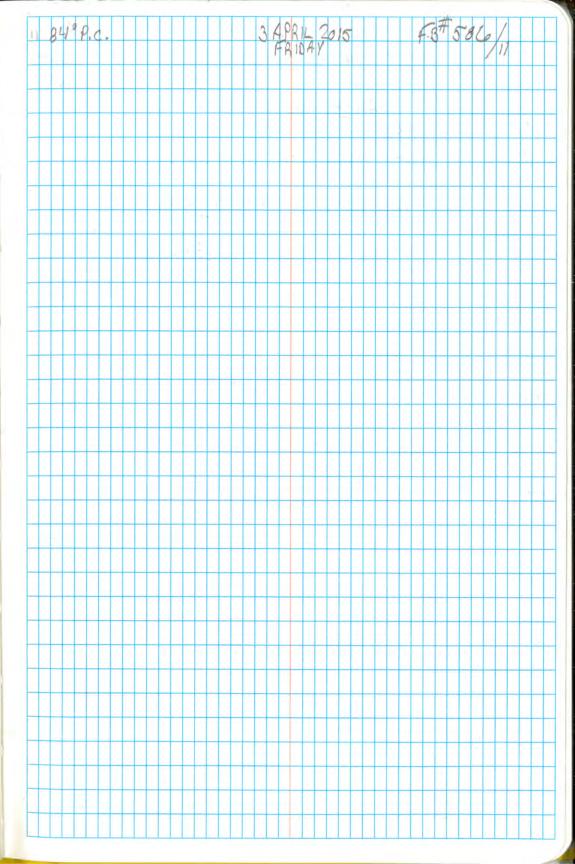
8END H BOD CONT Sm BS DUT BK FO DIST FR ELEV AND ELEV 586-8-10 4.378 252' 4.367 255' 6.144 (6.153 10002 4.668 213' 4.185 212' 6.334 (6.347 586-8-12 4.764 246' 4.720 246' 6.998 586-8-12 4.764 246' 4.720 246' 6.998 586-8-13 4.626 251' 4.682 249' 6.993 7.000 586-8-14 4.716 251' 5.209' 248' 6.410 586-8-15 4.972 233' 5.283 248' 5.843 5.86 586-8-16 4.972 233' 5.283 248' 5.843 5.86 586-8-16 4.511 249' 5.290 231' 5.525 5.55 586-8-17 5.679 253' 4.310 250' 5.792 5.38 586-8-17 5.679 253' 4.310 250' 5.792 5.38 586-8-17 5.679 253' 4.310 250' 5.792 5.38	312 11297	.07	SFO	ump C	-111 LIDA	78		JF
586-8-10 4.378 252 4.367 255 6.141 6.153 10002 4.663 213 4.185 212 6.334 6.347 586-8-12 4.764 246 4.720 246 6.91 6.91 586-8-13 4.626 251 4.682 249 6.993 7.000 586-8-14 4.716 251 5.209 243 6.410 586-8-15 4.972 233 5.283 243 5.343 5.86 586-8-16 4.517 249 5.290 231 5.525 5.56 586-8-16 4.517 249 5.290 231 5.525 5.56 586-8-16 4.517 249 5.290 231 5.525 5.56 586-8-16 4.517 249 5.290 231 5.525 5.56 586-8-16 4.517 249 5.290 251 5.525 5.56								
10002 4.668 213' 4.185 212' 6.334 6.345 5.473' 6.345 5.473' 6.345 5.473' 6.345 5.473' 6.345 5.473' 6.345 5.473' 6.345 5.473' 6.345 5.473' 6.345 6.098 5.470' 6.098 5.470' 6.098 5.470' 6.098 5.470' 6.098 5.470' 6.098 5.470' 6.098 5.470' 6.098 5.470' 6.098 5.470' 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.098 6.0					1.0			(NAVOSS) ADJ ELEV
586-8-15 4.972 233' 5.293 248' 5.393 5.365 5.505 5.505 5.505 5.396 253' 4.310 250' 5.790 5.3	586-8-10 (11)	4,378	252'		4,867	255'	5,015	6,153
586-8-12 4.764 246 4.720 246 6.905 6.905 586-8-14 4.716 251 5.290 231 5.525 5.56 5.86-8-17 5.679 253 4.310 250 5.792 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.386 5.3	100.02	4.663	2/3	1	4.185	212'	6,334,	6,347
586-8-15 4.626 251 4.682 249 6.993. 7.000 586-8-14 4.716 251 5.209 248 6.410 586-8-15 4.972 233 5.283 248 5.843 5.86 586-8-16 4.511 249 5.290 231 5.525 5.56 586-8-17 5.679 253 4.310 250 5.792 5.8 8,861	586-8-11 (13)	5.547	249'	1	4.918	218'	5,910	6.098
586-8-17 5.679 253' 5.209' 248' 6.410 6.410 5.209' 248' 6.410 5.209' 248' 5.843 5.86 5.209 231' 5.525 5.56 8.362 4.310 250' 5.792 5.3	586-8-12 (14)	4,764	246		4,720	246	6911	6,926
586-8-17 5.679 253' 5.283 248' 5.843 5.86 586-8-17 5.679 253' 4.310 250' 5.792 5.8 8,861	586-8-13	4.626	251		4.682	249	6,993,	7,009
586-8-17 5.679 253' 5.290 250' 5.792 5.8 (19) 7,898	586-3-14	4.716	251		5,209	2481	(0,410,7,399	6/427
586-8-17 5.679 253 4.310 250 5.792 5.8 (19)	586-3-15	4.972	233'		5,283	243'	5,843	5,861
(19) 8,861	586-9-1	6 4.517	249'		5,290	231	5,525 8,362	5.544
	586-8-1	1 5.679	253'		4.310	250'	5,792. 8,861	5,812
586-8-18 4.172 249 4.789 250° 6.632 6.7	586-8-1 (20)	8 4.172	249		4,780	250'	6.682	6,704

F8# 586 24PBYL 2015 DESC MEP 5W 39225T NAIL & TIT QI SW 3922 + + SW 217 th AVE MAGNAIL W. OF + GB /TAA1 -SET NAKH TIT NEP 5W 392nd 5T; 2751 ± 0 £ 215th 100 SW 214 4 AVE SET MAG WAYE & GRY/TRAY DISK LB 7055 SET WAIL OF THE W. EP 5w 3922 55 NEP 54 39270 5T SET NAIL & TIT SW 212th AVE SET MAG MAIL & GAS/TRAV MEP 3924057 SET WAR + T/T SW 20915 AVE +w. 30

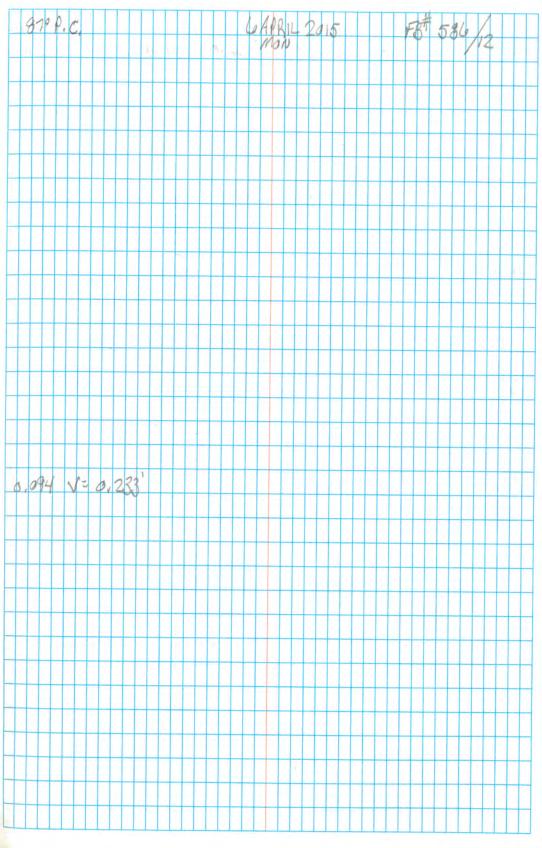
31211297	art	SEN	m) (-1	11 LIDAR			JF -
31211296	9/		BUN C				TC
		OCIVALIT	1,0.0				BU (NAVO 38)
Bm	35	DISTOK	Tara -	FS 7	DIST FR	ELEV	AD ELEV
586-8-19 (21)		252'		4,352	247'	9,360	6.525
586-8-20	5,446	253'	- J	4.373	251	5,960	5,984
586-8-21	3,981	253'	1	4,964	244	6,442	6,467
586-8-22 (24)	3,426	254		4.153	243	6.270	6,296
586-8-23	5,377	80'	,	3.432	242'	6.764	6,291
EGI	3,590	79		4.619	77'	7,027,	7,050
28.16				5,657	82'	4,952	4,980

	2 APRIL 2015	FB 586 / 10
DESC SETNAU + T/T NEP SW 39 SW 2096 AVE	121 ST; RIdo # E	of A
SET MAG WAIL & GRATRAVI	DUSK LB 7055 N.E	P SW 3922 ST.
SET MAIL ATT N.EP SW 3 ADDRESS "38801"	39222 ST; N. SIDE	N. AS PH DULY
SET NAIL H T/T N. EP JW	3924 57	
SET MAG NAILY BAR /TRAV	DUK 16 7055 NE	EP 5W 392h 5T,
FOUND FLORIBASADDISK EG!" 870058 EL= 7.01	TOP CONC CURB	NW COR BRIDGE
ELE 4,98		
0.0311 72.306	-0.028 ACTO	OWABLE ERROR

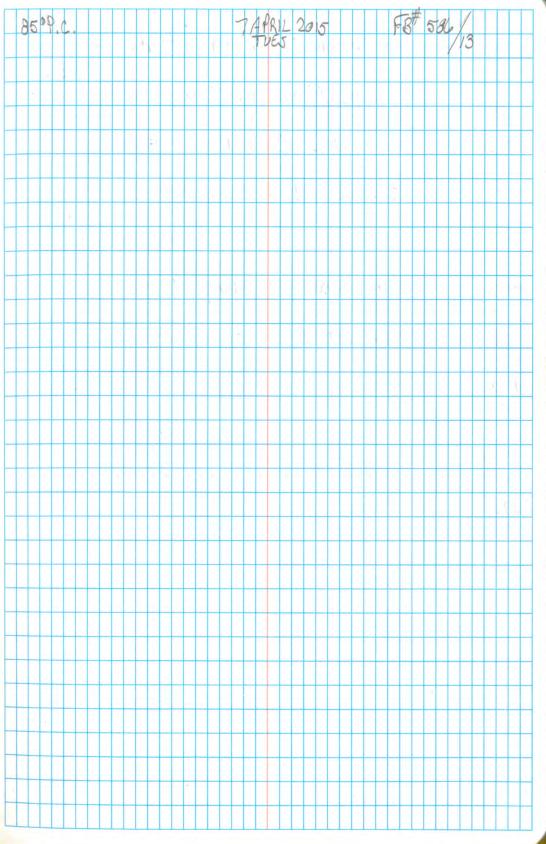
22085 ON ATS 8 ASS & PRIV HT: 7.46 CHX 10006A D: 0.044 C: 0.075' 10006B CHX 10005A D: 0.094' V: 0.003' 10006B CHX 10005A D: 0.091' V: 0.003' 10006B CHX 10005A D: 0.065 V: 0.002' 10006B CHX 10007A D: 0.065 V: 0.002' 10007B CHX 10007A D: 0.032 V: 0.018 10007B CHX 10007A D: 0.032 V: 0.018 10008B CHX 10008A D: 0.090' V: 0.000' 10008B CHX 10008A D: 0.052 V: 0.000' 10008B CHX 10008A D: 0.052 V: 0.000' 10559B - 10567B CHX 10001A CHX 10001A D: 0.052 V: 0.000'	31211297,07	SEWMD C-111 LIDAR	J. FRIEND
BASE & PRIV HI = 7.46 10019 CHK EG2 D=0.044 C=0.075 10006B CHK 10006A D=0.084 V=0.003 10578-10586 CHK 10005A D=0.091 V=0.003 10008 CHK 10007A D=0.065 V=0.002 10007B CHK 10007A D=0.032 V=0.018 10008 CHK 10007A D=0.032 V=0.018 10008 CHK 10008A D=0.075 V=0.000 10008B CHK 10008A D=0.075 V=0.000 10008B CHK 10008A D=0.075 V=0.000 10008B CHK 10008A D=0.075 V=0.000		2 nd abs on ATS	T.CLANTON BJONES
100068 CHK 10006A D=0.084 V=0.003' 105718-10586B CHKS 10005B CHK 10005A D=0.091' V=0.011' 105686-10576B CHKS 10002B CHK 10002A D=0.055 V=0.002' 10002B CHK 10007A D=0.032 V=0.018 10007B CHK 10007A D=0.032 V=0.018 10008B CHK 10008A D=0.075' V=0.000' 10008B CHK 10008A D=0.075' V=0.000' 10008B CHK 10008A D=0.075' V=0.000' 10008B CHK 10008A D=0.075' V=0.001'			
100068 CHK 10006A D=0.084' V=0.003' 10005B CHK 10005A D=0.091' V=0.011' 10006B CHK 10005A D=0.055 V=0.002' 10006B CHK 10007A D=0.055 V=0.003' 10007B CHK 10007A D=0.032 V=0.018 10008B CHK 10000A D=0.090' V=0.000' 10008B CHK 10000A D=0.075' V=0.000' 10008B CHK 10000A D=0.052 V=0.000' 10008B CHK 10000A D=0.052 V=0.000' 10008B CHK 10000A D=0.055 V=0.000'	GBF	DESC	
100058 CHK 10005A D=0.091 V=0.011 10005B CHK 10005A D=0.055 V=0.052 10002B CHK 10007A D=0.055 V=0.058 10007B CHK 10007A D=0.032 V=0.038 10007B CHK 10007A D=0.032 V=0.038 10008B CHK 10008A D=0.075' V=0.000' V=0.	10619	CHK EG2 D: 0.044 C=0.075	
100058 CHK 10005A D=0.091 V=0.011 10002B CHK 10002A D=0.055 V=0.032 1 10002B CHK 10007A D=0.013 V=0.038 10000B CHK 10000A D=0.090 V=0.000 V=0.000 V=0.000 V=0.000 CHK 10008A D=0.075 V=0.000 V=0.000 V=0.000 CHK 10008A D=0.075 V=0.000 V=0.000 V=0.000 CHK 10008A D=0.052 V=0.000 V=0.000 CHK 10004A D=0.052 V=0.000 CHK 10004A D=0.052 V=0.000 CHK 10001A D=0.052 V=0.050 CHK 10001A D=0.050 CHK 10	100068	CHK 10006A D=0.084 V=0.008	
100026 CHK 10002A D=0.055 V=0.002' 10003B CHK 10007A D=0.032 V=0.038' 10000B CHK 10000A D=0.032 V=0.018 10000B CHK 10000A D=0.090' V=0.000' 10000B CHK 10000A D=0.075' V=0.000' 10000B CHK 10000A D=0.052 V=0.013' 10000B CHK 10001A D=0.052 V=0.060' 10559B-10560B CHKS *10001B CHK 10001A D=0.088 V-0.256'	105776-105856	CHKS	
10002B CHK 10003A D=0.065 V=0.032 10007B CHK 10007A D=0.032 V=0.018 10000B CHK 10000A D=0.075' V=0.000' 10000B CHK 10000A D=0.075' V=0.000' 10000B CHK 10000A D=0.075' V=0.010' 10559B-10567B CHK 10001A D=0.088 V=0.052 V=0.066'	100058	CHK 10005A D=0.091' V=0.011'	
1000 3B CHK 10007A D=0.01,8 V=0.038 10007B CHK 10007A D=0.032 V=0.018 10008B CHK 10008A D=0.075' V=0.000' 10008B CHK 10008A D=0.075' V=0.000' V=0.000' V=0.000' CHK 10004A D=0.052 V=0.000' V=0.000' V=0.000' V=0.000' V=0.000' V=0.000' V=0.000'	105686-105768	CAKI	
10007B CHK 10007A D=0.032 V=0.018 10008B CHK 10008A D=0.075' V=0.003' 10004B CHK 10004A D=0.052 V=0.060' V=0.060' N=0.053' V=0.060' CHK 10001A D=0.088 V=0.052 V=0.060'	100026	CHK 10002A D=0.055 V:0.002'	
10000B CHK 10000A D=0.090' V=0.000' 10000B CHK 10008A D=0.075' V=0.073' 10004B CHK 10004A D=0.052 V=0.060' 10559B-10567B CHKS *100018 CHK 10001A D=0.038 V=0.256'	1000 38	CHK 10003A D=0.068 V=0,003	
100088 CHK 10008A D=0.075' V= 0.073' 100048 CHK 10004A D=0.052 V= 0.060' 10559B-105678 CHKS *100018 CHK 10001A D=0.088 V-0.256'	100078	CHK 10007A D=0.032 V=0,018	
10004B CHK 10004A D=0.052 V=0.060' 10559B-10567B CHKS *100018 CHK 10001A D=0.083 V-0.256'	10000B	CHK 10000A D=0.090' V=0.000'	
10559B-10567B CHKS *10001B CHK 10001A D= 0.088 V-0.256	100088	CHK 10008A D=0.075' V= 0.073'	
*100018 CHK 10001A D= 0.088 V- 0.256	100048	CHK 10004A D=0.052 Y= 0.06)	
*100015 CHY 100014 D 7.000	105598-105678	CHKS	
Ness 24 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	*1000/8	CHK 10001 A D= 0.033 V- 0.25	0
\$10009B CHK 10009H D-0,101	*100096	CHK 10009A D=0.101 V= 0,25	8



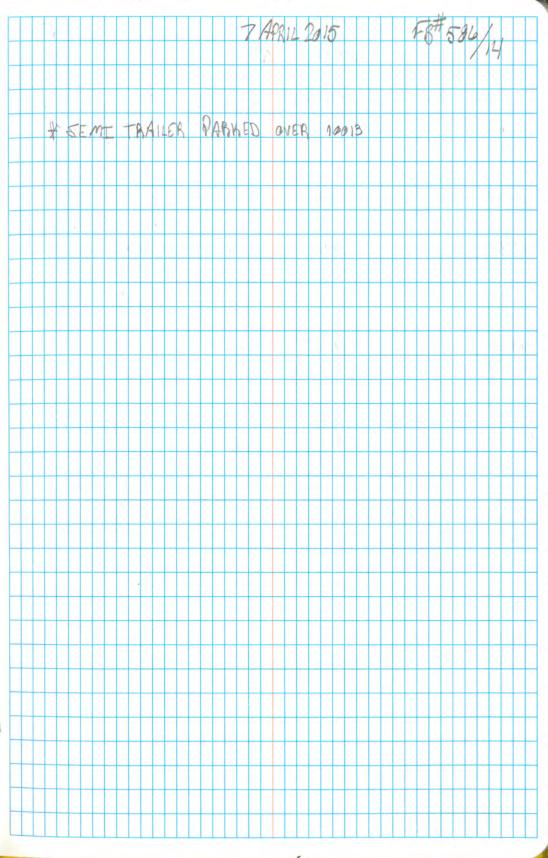
31211297,07	SFWMD C-111 LIDAR J.FRIEND
1297075Fal	JET CONTROL FOR GROUND TRUTHING TICHANTON BLONES
GB# 10009 A2	BASE@ EG2 HI: 4,46 DESC CHK 10009B D= 0.064' V= 0.031'
10620	CHIS T316 D= 0.030' V= 0.007'
10010A	JET MAG NAIL & SAS TRAV DISS L8 7050
10621	CHK H504 EL: 9.51 F-EL: 9.54
10012A 10013A	JET MAG NAIL & GRS TRAV DISK LA 7055
10622	CHN PRIG D=0.116 C=0.012
H10001 A2	CHK 10001A D= 0.059 V=0.023 CHK10001B D=
¥	
*	



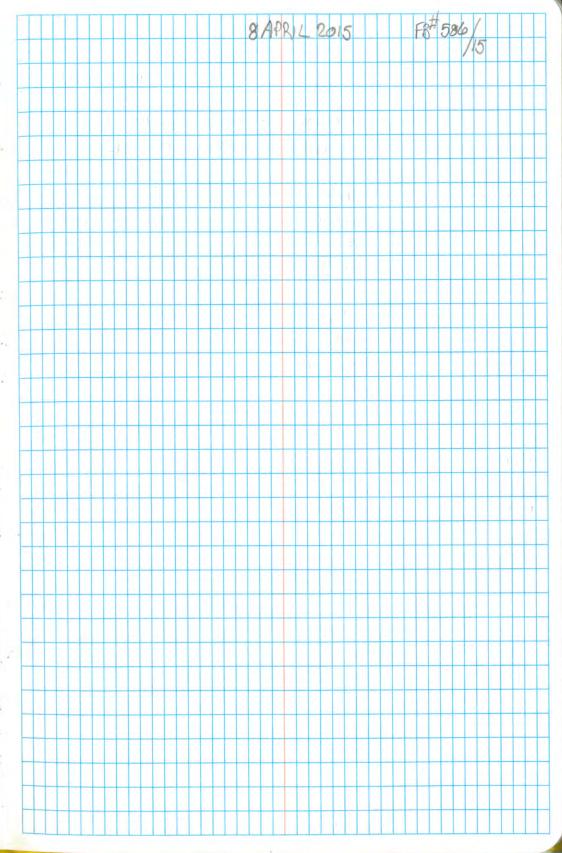
129737 567 SET CONTROL FOR GRIDDON MONTHOUSE BASE @ EG2 HT: 4,46 DESC 10623 CHX PR 16 D F 0.071 V: 0.031 10014A IBC SET 5/8" 2 B TRAV (67055 10154 IN 11	31211297,07	SET CONTROL FOR GROWN TRUTHING T. CLANTON
DESC 10623	129707 5F01	0.0003
100/4A IBC SET 5/8" 3 PS THAY (B 7055 100/4A 100/54 100/6A FOUND MAG NAIL + DEK NO ID 100/7A PIP FOUND 1" (EI SW 384+5 ST + SW 274+6 AVE 100/8A 100/9A 100/2A	4	
100 1/A	GB#	CHK PRIG D= 0.071 V=0.031
100 154	1002	
10012A 10012A 10012A 10012A 10022A 10022A 10024A		
10018A 10019A 11	100154	
10018A 10018A 10019A 11 10020A 10022A 10022A 10022A 10022A 10022A 10024A 10024A		FOUND MAG NAIL & DEK NO ID PID FALLOD I" (ST SW 384+DST & SW 214+DAVE
10020A 10022A 10023A 10023A 10024A	10017A	
10020A 10022A 10022A 10022A 10022A 10024A 10024A		
10021A 10022A N N N N N N N N N N N N N		11 11 11 11 11 11
10022A N N N N N N N N N N N N N N N N N N		W W W W W W
10024A N N N N N N N N N N N N N N N N N N N	101220	N N AL
100244	10023A	7 7 7 74 74
10624 CHK 10002 D= 0.096 V=0.03	100244	
10624 CHK 10002 D= 0.046 V= 0.03		
	10624	CHK 1000 2 D= 0.046 V=0.03
4	À	
	*	



210.020	JEWMD C-111 LIDAR JE
31211297.07 129707 5F01	SET CONTROL FOR GROUND TRUTH WG TC
127 101 0101	8
	BASE @ PRILO HI: 7.66
GR5#	DESC 1101 Dec 201 1/50 251
100128	CHK 10012A D= 0,098 V=0.056
10025B	IBC JET 5/8" GRSTRAV 157055
1000182	CHK 10001A D=0,072 V=0,044'
100108	CAK 10010A D= 0.092 V= 0.079
¥10011B	CHK 10011A D= 0.144 V=0.265
100 148	CHK 19014A D= 0,038 V= 0.002
10015B	CHK 10015A D=0,064' Y= 0.060'
10625B	X MED VEG
106268	X MED VEG
106278	X MED VEG
-	
7	
3	



31211297.07	SFWMD C-III LIDAR	FRIEND
1291075801	SET CONTROL CONT	CLANTON
12710 10101	B	JONES
	BASE@ PRIG HI: 7,66	
4100168	CHK 10016 A D=0.077' V= 0.111'	
100178	CHK 10017A D=0,038' V=0.092'	
100110		
100228	CHK 10020A D=0,093 V=0,033	
100218	CHK 10021A D=0,082 V=0,042	
10018B	and 10018A D-0,077 V=0.032'	
100196	CHX 10019A D=0.077' Y=0.023'	
150.10		
100228	CHK 10022A D=0.095' V=0.029'	
198238	CHIS 10023A D:0,094' V=0,032'	
100248	CHK 10024A D=0.087 V=0.038	
7-2.0		
	BAJECE EG 2 HI=4, 66	
10090B	CHK 1900 A D= 0,087' V= 0,097'	
10011A2	CHY 100/16 D=0.072 V=0.081'	
10016A2	CHK 10016B D-0.085' V= 0.037'	30
10025 A	CHK 100258 D= 0.016 V= 0.012	
	N.	
10625A	CHY 106258 D=0072' V=01055	
10626A	CHH 1012B D= 0.053 V= 0.062	-
10627A	CHIN 1010276 J= 0.020 V= 0.015	
	1./	
10628	CHK PRIG D=0.043 V= 0.063'	



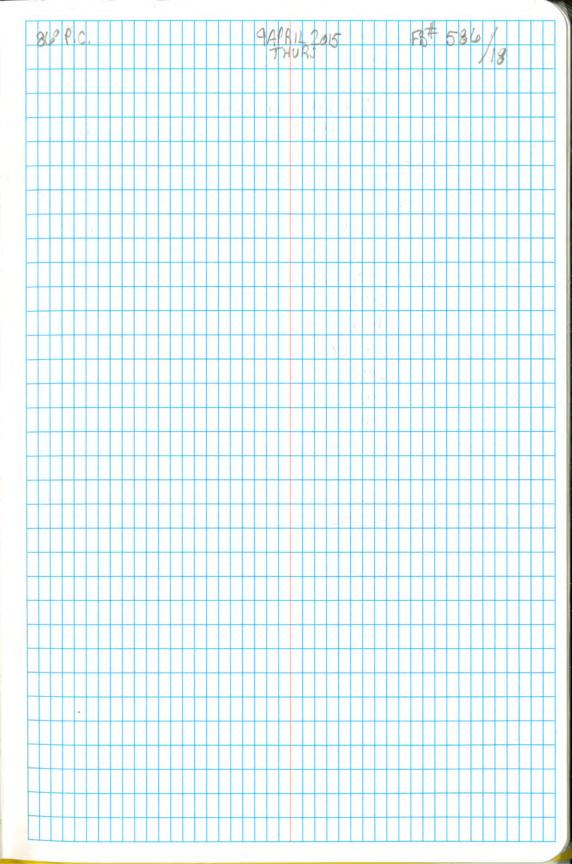
31211297,07	SFWMO C-111 LIDAR	SF
1297015601	GROUND TRUTHING SHOTS	TC
121 1012101	Gibain Hita Alica	BJ
-	10 10019AHT - 5,49	
	35 100/8 A HR = 5,20 HD = 0.	ML V- 1010
		00 1 0,010
5	DEJC	
10629	X UNOB	
10630	X VN OB	
10631	X LOW VEG	
10632	X LOW VEG	
10633	X UNDB	
10634	X HIGH VEG	
10635	X MED VEG	
10636	X HIGH VEG	
10637	XMED VEG	
10638	Y LOW YEG	
10639	X MED VEG	
10640	X HIGH VEG	
10641	X MED VEG	
10642	X HIGH VEG	•
10012	A 1	
		4

	3 APRIL 2015 F8# 536/
	10 10018 A HI=5,51
	10018 A HI= 5,51 B5 10019 A HA= 5,13 HD=0,001 V= 0.007
CAS# 18643	DETE
18643	X LOW VEG
10/044	X UNOD
10445	X UNDB
10646	K MED VEG
10649	X MED VEG
10648	X LOW YEG
10649	X MED VEG X LOW VEG
106,50	X LOW VEG
	T@ 10020A HI= 5.58
	35 10021A HR = 5.48 HD = 0.0412 N= 0.064
10651	V WALAS
10652	
10653	
10654	X LOW VEG
0655	X HIGH VEG
10656	
10057	X MED VEG X HIGH VEG
19658	X HIGH VEG
	

			1	1~	,
31211297,07	SFWMD C-111	LIDAR		JF	
129707 5F01	GROUND TRUTHING	JHOTS		TC	
				BJ	1
	TQ 10017A	HI=5,50			1
		HB-478	HD=0.021	V= 0.058	0-#
FS	DEJC				201.25
10059	X HIGH VEG				196235
10660	X HIGH VEG				13636
10/1/2	X LOW VEG				10637
10662	× UNOB				10/088
10663	X UNOB				
10664	X LOW VEG				
10665	X MED VEG				1
10/0/06	X MED VEG				
10667	X MED VEG				
10/0/03	X UNOB				
10669	X UNOB				
101070	X LOW VEG				
10671	X MED VEG				
10612	X UNOB				
10673	X LOW VEG				
10674	X HIGH VEG				
10675	X HIGH VEG				
10076	X LOW VEG				
10677	X UNOB				
10678	X HIGH VEG			(*)	
10679	X MED VEG				
10680	X LOW VEG				
10681	X UNOB				-
10632	& UNOB				-
10683	X LOW VEG				
10684	X HIGH VEG				-

	·			
	3 APR	12015	F8# 586/	
			/17	
P-#	DEEC			
144	0000			
19085	X HIGH VEG			
13636	X Law VEG	1 1		
10637	X HIGH VEG			
19635 18636 19637 19633	X HIGH VEG X LOW VEG X HIGH VEG X UNOB		4 /	
		1.1		
		100		
		3/1/1/1		
			111111111111111111111111111111111111111	
+++++++++++++++++++++++++++++++++++++++				

3121129707	JFWMO C-111 LIDAR	J.FRIEND
129707 SFOI	SROUM TRUTHING SHOTS	TICHMON
67 101 110	City of the Control o	B.JONES
	1 @ 100104 HI=5,48	
	85 100 11 AZHA: 5,48 HD= 0.011' V:	0.082
E	DETC	
10639	X UN OB	
10690	X MED VEG	
10691	X MED VEG	
10692	X MED VEG	
10693	X HIGH VEG	
10694	X HIGH VEG	
10695	X UN aB	
10696	X LOW VEG	
10697	X LOW YEG	
10698	X UNOB	
10699	X VNOB	
10700	X MED VEG	
1070)	Y LOW VEG	
10702	X HIGH VEG	
10-103	X LOW VEG	
10704	X MED VEG	
10705	X MED VEG	
10 100	V 1.100 V	



		IF
31211297,07	SFNMO C-11 LIDAR	
1297075Fa)	GROUND TRUTH ING SHOTS	TC
		8)
	Ta 100124 HI = 5,47	
	85 10025 A HB= 5,40 HD= 0,048 V	= 0,048
R	DE2C	
10706	× UNOB	
10707	X LOW VEG	
10708	X VN OB	
10-109	X HIGH VEG	
10710	X LOW YEG	
10711	X UNOB	
10712	X HIGH VEG	
10713	X MED VEG	
10714	X LOW VEG	
10715	X UNOB	
10716	Y LOW VEG	
10717	X HIGH VEG	
19711	K IIIGI	
	of PT#5 10625-10627 MED VEG LOCATED	WIGS
-	IN THIS ABEA	
	IN THE THE	

	9 APBIL 2015 FB# 586/
	119
	TO 10025A HT= 5.57 B5 10012A HA=515 HD= 0.045 V=0.066
1,6	B5 100 12A HA=515 HD= 0.045 V=0.066
FS	DESC
10713	CHK 10013A 8-0348 4-0.026 F-0.069
10719	X UNOB X MED VEG
10729	X MED VEG
19721	x UNOB
10722	X LOW VEG
10723	X UNOB VINOB
10724	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
10725	
10726	X COW VEG X HIGH VEG X COW VEG
13727	
10728	X HIGH VEG
10729	X HIGH VEG X LOW VEG X HIGH VEG
19730	X HIGH VEG
10731	* HIGH VEG X LOW VEG
10732	X HIGH VEG
10783	X HIGH VEC
	
	

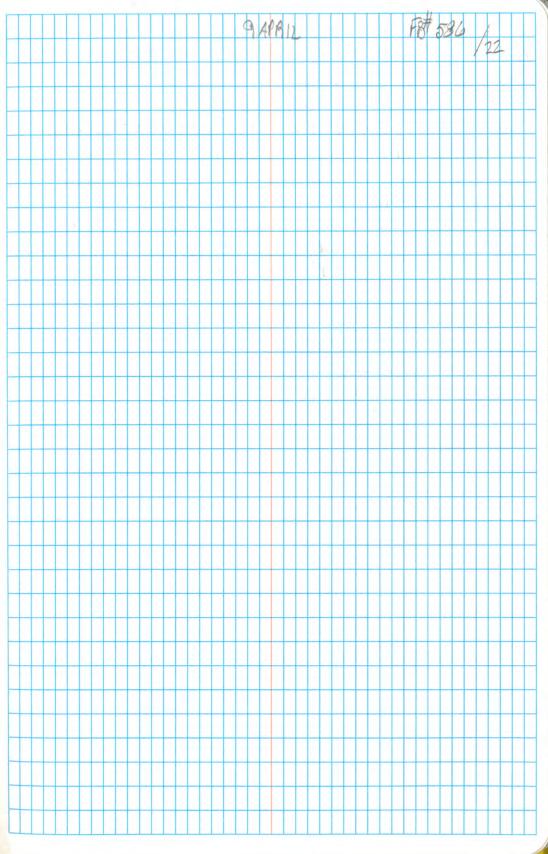
		-
31211297.07	SFMMD C-111 LIDAR JF	—
129707 5F01	A RAUMAN TRUTH NO SHOTS	_
12110101		_
	1@ 10022A HI: 5,52	_
	BS 10023A HR= 5.43' HD= 0.047' V= 0.120	
FS	DESC	F5
10734	X MED VEG	10756
10735	X LOW VEG	10757
10734	X HIGH VEG	10758
10737	X UNOB	10759
10738	X HIGH VEG	10760
10739	X HIGH VEG	10761
10740	X MED VEG	10762
10741	X LOW VEG	10-63
10742	X UNOB	
10743	X UNDB	\]
10744	X LOW VEG	1
10745	X MED VEG	
10746	X DNab	_
10747	x Low VEG	_
10743	X UNOB	
12749	X HIGH VEG	_
10750	X HIGH VEG	—
1975)	X HIGH VEG	 -
19752	X UNOS	
10753	X MED VEG	
10754	X DNOB	
-10755	X Unab	
1		

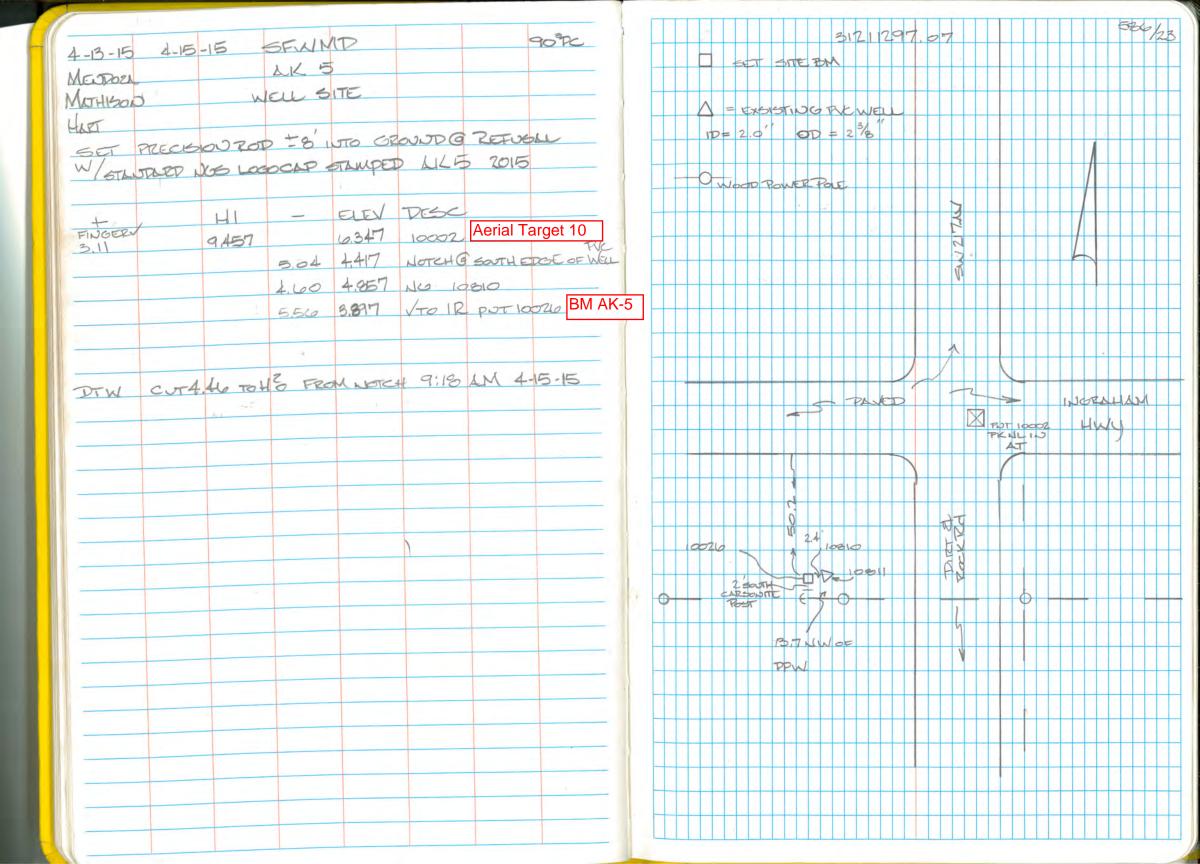
	9.46	MIZ	2	015				F	6#	52	36	/-	23	
	7(@ B3	1002	02	48:	13.	5.43	55	HD:	0.1	39'	V=	00	129	
10756 X WOB 10757 X MED 10758 X HIGH	VEG													
10759 K 40W	VEG VEG)												
10782 X LOW VEC	EG 1EG					7								
10-63 X UNOB				V .										
	-													
]

2121129707		JF H
31211297.07 1297075F01	2 RANGED TRUTHING SHOTS	
12770101	910000	B H
	100 100 HILL ST 59	
	35 190 15A HB = 5.18 HD = 0.015 V=	0.089
FS	DESC	
10764	X UN BB	10785
10765	X LOW VEG	107/8/9
	x vvas	10787
1976 Ce	x Law VEG	197/88
1076 7	X HIGH VEG	10789
10768	X MED VEG	10790
10769	X LOW VEG	0790
1077 0	X LOW VEG	10792
10771	X MED VEG HOLE	107/93
1077 2	X IOW VEG TOP BED	10794
10773	X LOW VEG TOP BED X LOW VEG TOP BED	
	X MED VEG HOLE	
10775	V- 1.100	
10716	X HIGH VEG	
10777	X HIGH VEG	
1077 8		
10779		
1078 0	X LOW VEG	
1078 1	X UNOB	
1078 2	X UNOB	
10-18-3	X MED BED X LOW FURROW	
1078.4	X LOW FURROW	
-		
5HOFURTA	w Cu	
2 Li knuis		
	SHOT ON BED	

	9 APRIL 2015 FB# 536 1
	721
	T@ 190158 HI=5.51
	TO 19015B HI= 5.51 BS 10014B HB= 5.27 HD=0.020V= 0.086
	BS 10014 B HR-5,27 HD=0,020V=0.086
15	DE52
10785	X UNOB
10-186	x UN08
10787	
10788	X HIGH VEG MOUND
10-10	X LOW VEG X HIGH VEG MOUND X LOW VEG FURROW X HIGH BED
10/8	11,61,62
10 170	X HIGH BED
07/11	1 01090
0792	X MED VEG BED
10793	X LOW VEG FURROW X MED VEG HOLE
10794	X MED VEG HOLE
	

		-
31211297,07	SEWMO C-111 LIDAR DE	-
1297075F01	(3150V/V) 1507 H/V (3 3 H31V) 1C	- 1
	8)	-
	10 100 11A2HI-5,44	_
	85 100 10A HR= 4.76 HD= 0.023 V= 0.071	- 1
Fo	DESC	-
10795	X HIGH VEG	- 1
10796	X HIGH VEG	_
10797	X UNOB	- 1
10798	& VNOE	- 1
10799	X UNOB	_
10800	X UNOB	- 1
10301	X LOW VEG	_
10302	X UNB	_
10803	X MED VEG	_
1080-	X HIGH BEP	_
10805	X LOW FURROW	_ /-
10306	X UN aB	_ // -
10307	X MED VEG	_ 1
10808	X LOW VEG	
_1000		_
-		_ 1
-		



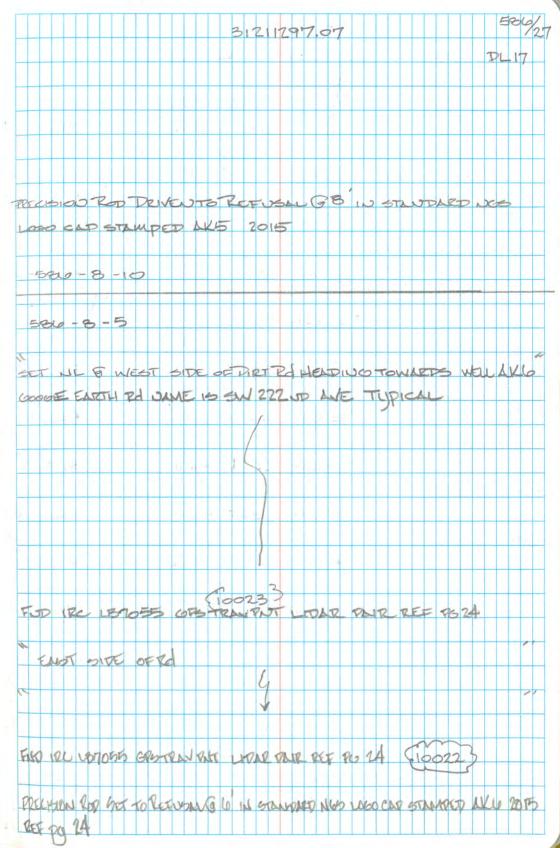


4-13-15 4-1	5-15 55	WMD	90°PC		317.17.07	
MENDOZA		16				
MATHEOD		STE				
	74					WORLLAN HIN
HART	20.0-0	EFUSAL G 6'	WINDLED			TAX CHAIT CHAI
SET PRECIS	300 KOD 10 E	ELV 1 1 75	(300)		V /	
NOS 1000	CAP STAMP	DAK 6, 2015				
	Н -	CLEYDES				
4.00			RT AKLO SITERM		0 \$ET	
4.00	10.140	5,200 150	G CARDUTE POST PK			TWO THE WEL
	4.4 F,	SIALO NO	19 CARSONNE DE PUL		2	OD 23/8
-			G SOUTH ELOCE OF WELL		15	
FV	BROKE S	,		1		
5.02	10.1200		- 1. V			
	4.5	715 5,271 /106	S AKG SITE BM	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
					9 7	
DTW C	T 5.28 TO	HO FROM NOTCH	G10:18LM 4:15.15	1	3	
					9	
					586-27-6	
					2 10023	
					7	
				1 x		
					X-a	
					10022 0 500-279	
				*	1443	10813 (SCT CAR
					+IHE TOPEN	ROST 2'N
					93.2	-1.77
						10817
-						

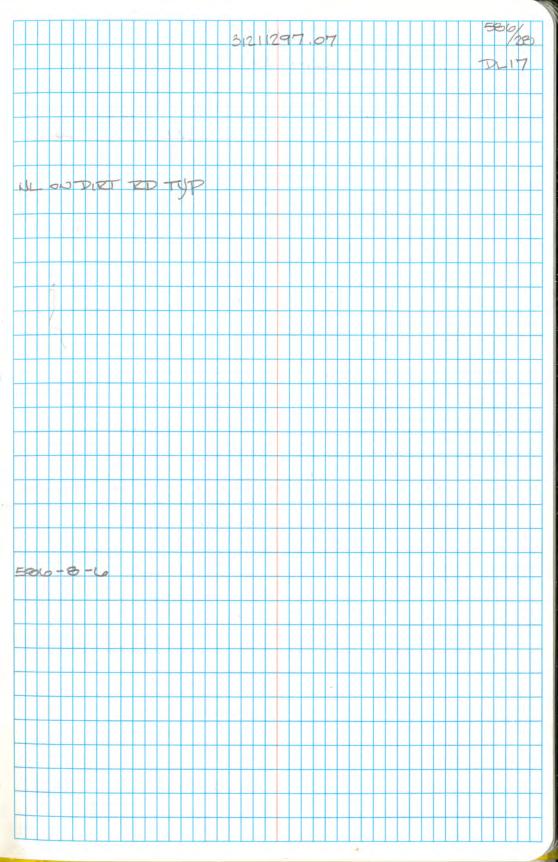
										541
4-13-15	4-15-15	5	SFW	ND				317.1	1297.07	560/25
MENTOZA			VC 1							DL17
MATHISON			4-14-15							
HLET		7	Eso TE	ST						
	4.587	99.7	人	100.1	5.869					
	4990	9.90	ERRO	190.0	10.276					
						/	C			
SET -	PECISI	OU ROD-	TO PETO	64.9	5.5	50000				
U66	1000 C	PSTAW	DED VC	,2015				\\	1	14
				55.	DEBC			51,000		W
<u>+</u>		HI	_			VC1 SITE	BM_			TA.
4.78		8,923		7,170	(002)					P. C
			1.72	4,83	20-6	CAR500	TE POST			2
-			4.47,	4.453	NOTCH	@ WEST	TOTOF PYC			Ń
		2	POKE ?			9				
4.00	2					V		COCCUE NAMESO	O, GOULLES	
1200	(4.25 (ST)	TO LE	FROM	LOEH G	12:18 A	M 4.15	15	(Diet ROADS		
DIN							_	A HOSILO		
			4.97	4.143	10029	VINGSI	EBM	10029		
								7 10317		
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								0		7
									064	9
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-								A land		
								1. Kuchha Hahl		

												#4/1
1 12 11-	4-15-15		SEW	NP.		857C	l .		312112	97.07		504
	4-10-10		VC									DL 17
MENTORA			V									
MATHEOD										27		
HART			1		w/				510	WESH!		/
SET PL	ECISION	POP	II TO	KEFUSS	1 / STA	WOLFD NOS						
1000	CAP =	TAMPE	D VC	2 2015								
+	4	1(_		DESC							
5.11	-	1,975		2,865	100290 W	CZSME BM						-
											10/10815	
			4.20	3.695	NO 8 C	APSOUTE POST				1	NO 10815	2 NORTH
-						SOUTH EDGE OF THE	<u>k</u>				-2'	
			Secto							4-2	10000	
1 20		3,155	1							7	1004	
1.4.89	ç	0.00								V	.55 MIL	E-5
1			- 10	70.5	1,000 100	292					5W 384	1
11-			5.6	2,865	11000	, = 0						
-						2						10
								Y		T SITE BM		120
										300		\vec{Q}
							1) 2					
								1		50 2 3/8	MELL	
DTW	CUT 3,0	07 TO	HO F	POUL NOT	EH @ 11:11	7 LM 4-15-15	-	3 1 3	1002	OD 4/8		
							- 1	3 (3				
							- 1	1000 P				
							-	- 926				
							-	12/17				
							1	7274 KM				
								3 8				
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									. 20 miles		10000	1. 11.
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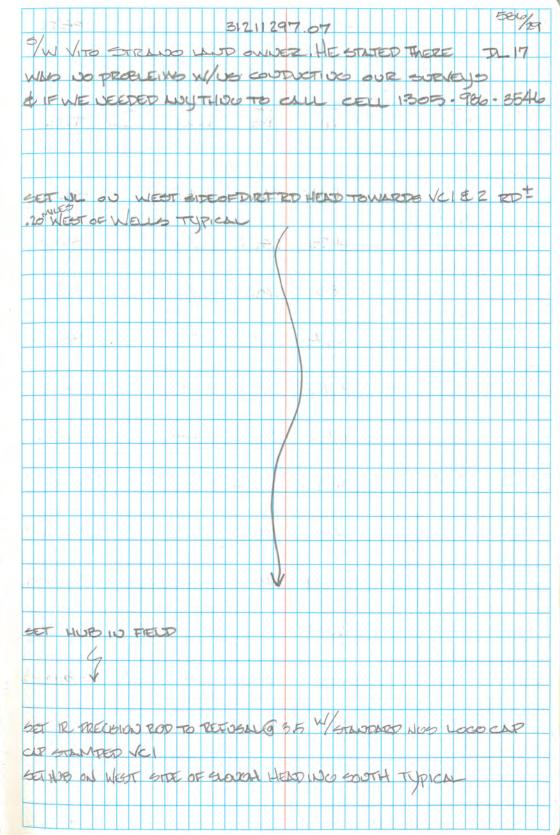
1 -			SFINAN	10			35°PC
14-15					2		
EUTOPL			EVELIND		,		
THEOD		7	TE BA	15	23)	
LET	BS (1)	Jore -	PEG TEE	FS DIST	Say	AD5	DESC
EU -	DIST		PH				
		GA	FILE	AK5	5	6.347	PUT10002
977	67.5						1
			5,427	6.0.9	3.897		IR
				=1 1			4
5,507	181,6						
			3.327	184.5	6.157	6.153	MLETAB
-		1-5					
	_	DFILE	AK6			5.163	
- 112	240.4					ý.	
5.265	140,4	1	5.587	241.9	4.839		586-27-1
	21.00	7					
5,154	260.7		5537	261.6	4.461		58627-2
	1		-				
5.54L	253.4		E124	252.8	4,369		506-73-3
			ONDT				
4.870	257.5	4		262.0	2104		586-27-4
			5.615	202,0	5,00		
5,196	242.1			239.1	3,498		586.27.5
			5.322	237.1	5.410		
5,635	183.7						586-27-6
			5,274	169.5	3.859		700-61-0
5.365	2423		, ,	. 41 .	101-		500-27-1
			4964	241.1	4.260		NYO 0- 1-1
5,222	249.9			1	1		CO. 07.
			4.236	247.5	5,246		580-27.8
535	165.90						- AM A
			5,301	75.7	5,320		500x-27-9
4.051	469						566-21-11
			4,902	40.1	D.1409		TR



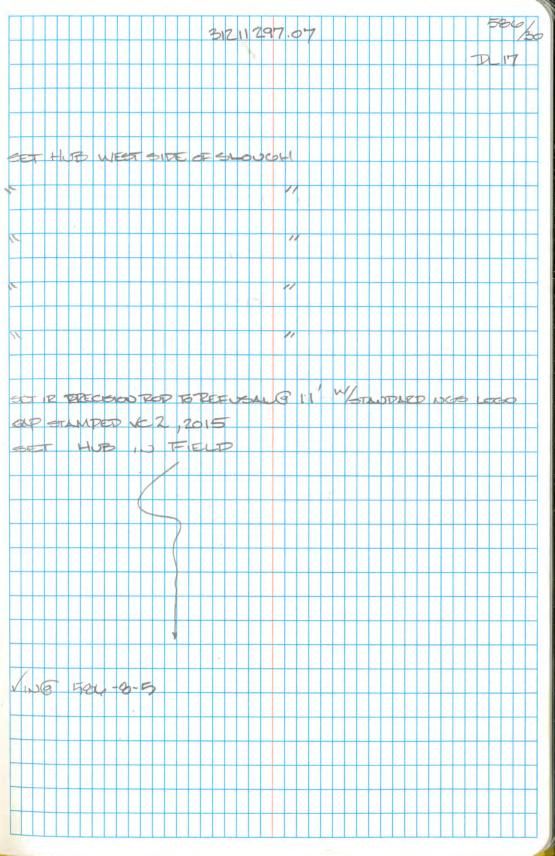
		41-	2			
4.14-15 Mastoca		SFWMI				-
MATHISOL		LEVELL	x G AKLO	TUDE		
LART						1
35 EH	30	FO	FOT	ELEV	ELEV	DESC
PH	DIST	En.		5.219		586-27-10
				0,00		2002
5,496	195.7					
		5.515	166.2	5.250	1-	586-26-11
4.29	257.3					
4,611	201.	5,198	2100	4771		586-28-12
1 -		5,170	140.0	1,6		
4,935	226,6					*
		5,340	256,6	3,866		586-78-B
5.423	179.4					
2.70		5.785	174.1	3,504		586-28-14
		5,165				
5 135	235.8		-1-0			Ea. 22.15
		5,000	245.3	3,631	-	586-20-15
5,334	2642					
		4.585	255.3	4.380		586-28-16
	253.4					
5,680	295,4	0	2521.	4.475		586.78-17
_		5,585	252,0	4.410		
5,185	2102.1					
		4.807	259.7	4.853		586-28-19
5,42	1235					
D,TI~	260,0	4.3100	252.0	5905	5900	VING
		4.300	202.0			
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-						



4.14.15		5	- WIV	D			85° PC
MENTOZA			VELLIXO				
MATHERN		VC	& VC	2			
HART				74	- 5	ADS	
89	215T		PH PH	DISI	ELEV	ELEV	Desc
PH	VISI					4.738	586-8-2
2 -11	238.3						
3.941	250.5		4.744	235,1	3935		586-29-1
- 1-	01 1 17		7,750	1			,
5.025	261.7		4.933	256.7	4.027		586-29-2
-15.83	052.7		4,700	6. 70. 1	1,00		
5,211	257.7		1000	260.3	4.396		586-29-3
	21,000		4,842	200,5	1.010		
4,554	260,1		1. 1	21.51	4.271		586-29-4
			4.679	260.1	7, 41		5.00
4.813	252.7			250.0	4,179		586-29-5
			4.905	250.2	4,119		200 2 3
4,881	262,3				1.11		586-29-6
			4.916	7579	4.144		586.77.6
4.802	241.1				1		
			4,753	240,4	4.R3		5900:29-7
4.864	240.7						
			4.757	240.7	4,300		580-18-8
5.041	237.8						-
			5.199	240,8	4.142		58629-9
4,425	267.6						
			5.258	263	3,309		500-29-10
4.1034	263.0						
			4.831	259,4	3,114		586-29-1
4.210	126.6						
4, 40	140.4		3,19	123.0	4,133		586-29-12
3,780	247.3						
7.100	5-115		5,135	240.2	2.786		TRU-29-13
			(1)				
-							



4.14.15		-	SFW	MD			85°PC
MEDDOZA		VC	1, 102	LEVEL	100		
MAJHIM)		COL	T			
HAET				=/-		ADS	-
部	35 DI51		FORH	FS DIST	ELEN	ELEV	DESC
					2706		58629.13
3,970	237.3						
0,110			4.291	240,2	2,473		586-30-14
4481	242.5						
4401	212,0		4.791	241.6	2.163		586-3015
4.810	249.7						
4.010	GTIII		4:251	246.3	2.722		506-30-16
12-1	250.4		11001				
4.351	2017		4.840	251.[2.233		586-30-17
	10.1.0		4.010	200			
5,335	101,0		4.7190	177.1	2,850		586-30-18
	177 6		4.1160	17/11	2,000		
4.469	233.8		4.675	1228	2,644		58630-19
			4.010	230.0	2,044		50000
4.752	239.3		1551	2 7	0015		58/-30-20
			4,551	251.1	2.845		405 30 200
5.234	251.6		1 001	0170	2 112		586-30-21
			4.86	2417	3.218		200 30 2
4.253	248.3				0 100		ED: 20 01
			4.319	249.7	3.152		586-30-22
5.116	252,3		1 - 1 :	0000	0 007		
			4.361	250.9	3,907		586-30-23
4.227	115.4						
			2.991	132,1	5,143	5.163	500-0-5
					,		•
						- 1	-
							_



A. 15.15 MISTER MISTER MISTER MISTER MISTER MISTER THAT S. G. FEOZ. HI 5.24 THAT S. G. F			Fela /
MINIMED MIN	THE PERSON NAMED IN THE PE	31711797.07	586/31
Misser History Free 3 GEO2 HI 5.24 ENEX # 20 GEXI HE LITE ENOUGH 1000 FET TEXT INCOME 23 SET IF M/S INCOME 23 SET IF M/S INCOME 24 SET IF M/S INCOME 25 SET IF M/S INCOME 25 SET IF M/S INCOME 26 AK 5 WELL MANAGEMENT IN INCOME INCOME 24 SET IF M/S INCOME 25 SET IF M/S INCOME 26 SET IF M/S INCOME 27 NO INCOME 26 SET IF M/S INCOME 27 NO	- 1		GP530
HINTERD HART FORE # 50 GRI HR WINK ENCLOSED FOR INF WINK LOCAL LOCAL LOCAL LOCA	TA CONTRACT		34653
PONCE # 50 GRX I WR WITH ETIX FRET PRET PRET PRET PRET PRES DOCAL 10009 LAVES LOCAL 10009 LAVES LOCAL 23 SET IR AVE LOCAL 25 SET IR AVE LOCAL 26 SET IR AVE LOCAL 27 LOCAL 26 SET IR AVE LOCAL 27 LOCAL 28 SET IR AVE LOCAL 29 LOCAL 29 LOCAL 20 LOCA	0 0 11 524		
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LAKED LOSID OF RIM COVER G AK 5 WELL SHOWELD LOSIT 24 SET IR AKU LOSIT V SET IR AKU	STK STO REF DESC		
COLID / E RIM COVER & AK 5 WELL SWITCH SWITCH TOPPEN LOCAL I V NO LOCA			
ICELL / E RIM COVER & ALS WELL FROM TYPICAL LOCATE 24 SET IR AK LO LOCATE 25 SET IR VCI LOCATE			
ICELL / E RIM COVER & ALS WELL TYPESAL ICELL / SEMILORE & ALLO WELL ICELL / SEMILORE & ALLO WELL ICELL / SEMILORE & ALLO WELL ICELL / SEMILORE & LA WELL ICELL / SEMILORE & COMMON CONTROL ICELL / SEMILORE & COMMON CONTROL	100268 23 SET IR AK 5 12/2"D		
10811	10810 (E RIM COVER & M. SWELL SEWIPTHEM		
CAIX 6 COTA CONTA CONT			
10017			
10017	C A146, 3		
10817 (EPIM OFT GAX 6 WELL 10813 V NIO 10014 (FEINT OFT G X 2 WELL 10815 V NC 10815 V NC 10816 (FEINT OFT G X 2 WELL 10816 V NC 10816 (FEINT OFT G X 2 WELL 10816 (FEINT OFT G X 2 WELL 10817 V NC 10021A 10618 S0.074 WO.0166 FO.007	MOTE 34 SET IR AKID		
10813 NIO 10813 VC2 NEU 10814 C EINCOVER & K2 WELL 10815 V NIO N			
VC2			
VC 2 SET IP & K 2 SET IP & K 2 WELL 10014 SET IP & K 2 WELL 10015 V NO SET IP VC			
10014 (F. P.I.M. ONER G. K. 2. WELL 10014 (F. P.I.M. ONER G. K. 2. WELL 10015 V NC 10015 V NC 10015 V NC 10016 (P. R.I.M. COVER G. VC. 1. WELL 10017 V NC 10017 V NC 10018 So. 074 WO. 066 FO. 007	A .		
10014 C FEINCOVER & VC2 WELL 10015 V NO VC1 1007 D SET 12 VC1 10014 C PEINCOVER & VC1 WALL 10017 NO 10021A 10610 S0.074 WO.01010 FO.007			
10815 V NC VC 1 1007 \$ 25 SET 12 VC 1 10014			
WC 3 SET 12 VC			
10014 SET IR VCI 10015 SET IR VCI 10017 NO 10017 NO 10018 S0.074 W0.066 F0.007	10015 Y NG		
10014 SET IR VCI 10015 SET IR VCI 10017 NO 10017 NO 10018 S0.074 W0.066 F0.007			
10021A 1081B S0.074 W0.066 F0.007			
10817 V NCO 10818 S0.074 W0.066 F0.007			
10021A 10818 50.074 W0.0610 F0.007	10016 S & RIMCOVERG VCI WELL		
	10817 4 NO		
	10021A 10618 50.074 WO.0660 FO.007		
			

REVISION 2 ADDITIONAL WELL SITES LOCATION MAP

Additional Well Sites Location Map



REVISION 2 ADDITIONAL GPS NETWORK

ADDITIONAL SITES GPS NETWORK MAPS



ADDITIONAL C111 WELL SITES CONTROL

Point #	Lat.	Long.	Northing	Easting	Elev.	Desc.
10820	25°24'38.85508"	-80°32'01.11691"	391817.51	810098.62	7.563	IR P14
10821	25°24'53.09423"	-80°31'27.11205"	393266.01	813211.35	4.13	IR P12
10822	25°24'13.11164"	-80°30'40.58545"	389245.02	817491.94	1.75	IR P15
10823	25°24'19.64895"	-80°29'57.89925"	389919.48	821403.54	2.32	IR P16
10827	25°23'54.81705"	-80°32'00.34710"	387371.95	810184.74	4.222	IR P17
10829	25°23'33.75311"	-80°32'48.84928"	385230.16	805744.42	4.9	IRC GPS TRAV
10830	25°26'18.05173"	-80°33'23.62096"	401806.02	802500.69	3.72	IRC GPS TRAV
10832	25°26'40.32832"	-80°33'07.87825"	404059.76	803936.23	3.48	IRC GPS TRAV
10833	25°26'50.77945"	-80°33'07.99820"	405114.8	803921.7	3.98	IRC GPS TRV
10836	25°24'35.55311"	-80°32'15.47280"	391479.59	808783.51	6.54	NL D WGI
10837	25°24'32.83819"	-80°31'21.23681"	391223.01	813757.34	5.37	IRC GPS TRAV
10838	25°24'37.04998"	-80°31'16.63963"	391649.71	814177.33	4.94	IRC GPS TRAV
10839	25°26'50.52843"	-80°33'12.56616"	405088.06	803503.08	3.85	IRC GPS TRAV
10840	25°26'40.34867"	-80°33'12.50014"	404060.39	803512.57	3.62	IRC
EG2	25°24'13.19494"	-80°33'29.56498"	389199.45	801997.54	9.11	EG2

REVISION 2

WELL AS-BUILT DATA SHEETS

Well Site: C111W12 GW

Party Chief:	Field Book	Number:	Page Number:
Jose Mendoza	580	5	44A
Benchmark Elevation (NAVD	Date of Fie	ld Work:	Datum Offset to NGVD 29:
88): 4.13	July 31, 2015		N/A
Benchmark Agency:	Benchmark Type:		Benchmark Stamp:
SFWMD	Precision Rod w/Sleeve		P12 2015
Reference Elevation (NA	AVD88):		Natural Ground:
Removable Cap "A" = 4.505 (sta	amped on tag)	Adjacent Elevations Near Well Range from	
Rim of Cap "B" = 4.57 (see pic #4)		4.5 to 4.6	
Latitude:			Longitude:
25.4147484			-080.5241978

Photographs:

<u>Pic#1:</u>



<u>Pic#2:</u>



Pic#3 3Ft:



Pic#3 10Ft:



Well Site: C111W12 GW

Continued

Pic#4:



Pic#5:



Pic#6 3Ft:



Pic#6 10Ft:



Pic#7:



- A Picture looking down (top view) at the open well.
- A picture looking down at the well head (with a ruler on it).
- An oblique picture of the well approximately 3 feet and one at 10 feet from the well head.
- **4.** A picture of the well and reference points A & B.
- **5.** A picture looking down (Top view) of the benchmark disk.
- **6.** An oblique picture of the benchmark at approximately 3 feet and on at 10 feet from the benchmark
- 7. A picture of the Brass Tag.

Party Chief: Jose Mendoza	Field Book Number: 586		Page Number:
Benchmark Elevation (NAVD 88): 7.563	Date of Fie July 31,		Datum Offset to NGVD 29:
Benchmark Agency:	Benchmai	rk Type:	Benchmark Stamp:
SFWMD	Precision Rod w/Sleeve		P14 2015
Reference Elevation (NA	AVD88):		Natural Ground:
Removable Cap "A" = 8.472 (sta	amped on tag)	Adjacent Elevations Near Well Range from	
Rim of Cap "B" = 8.53 (see pic #4)		8.6 to 8.7	
Latitude:			Longitude:
25.4107931			-080.5336436

Photographs:

Pic#1:



Pic#2:



Pic#3 3Ft:



Pic#3 10Ft:



Continued

Pic#4:



<u>Pic#5</u>



Pic#6 3Ft:



Pic#6 10Ft:



Pic#7:



- A Picture looking down (top view) at the open well.
- **2.** A picture looking down at the well head (with a ruler on it).
- An oblique picture of the well approximately 3 feet and one at 10 feet from the well head.
- 4. A picture of the well and reference points A & B.
- **5.** A picture looking down (Top view) of the benchmark disk.
- An oblique picture of the benchmark at approximately 3 feet and on at 10 feet from the benchmark
- A picture of the Brass Tag.

Party Chief: Jose Mendoza	Field Book Number: 586		Page Number:
Benchmark Elevation (NAVD 88): 1.75 Date of Fie			Datum Offset to NGVD 29: N/A
Benchmark Agency: SFWMD	Benchma Precision Roo	<i>-</i> -	Benchmark Stamp: P15 2015
Reference Elevation (NAVD88): Removable Cap "A" = 3.66 (stamped on tag) Rim of Cap "B" = 3.72 (see pic #4)		Adjacent El	Natural Ground: evations Near Well Range from 2.2 to 2.3
Latitude: 25.4036427			Longitude: -080.5112661

Photographs:

Pic#1:



Pic#3 3Ft:



Pic#2:



Pic#3 10Ft:



Continued

Pic#4: Pic#5





Pic#6 3Ft:

PIS

Pic#6 10Ft:



Pic#7:



- **1.** A Picture looking down (top view) at the open well.
- 2. A picture looking down at the well head (with a ruler on it).
- An oblique picture of the well approximately 3 feet and one at 10 feet from the well head.
- A picture of the well with the reference points.
- A picture looking down (Top view) of the benchmark disk.
- An oblique picture of the benchmark at approximately 3 feet and on at 10 feet from the benchmark
- 7. A picture of the brass tag.

Party Chief: Jose Mendoza	Field Book Number: 586		Page Number:
Benchmark Elevation (NAVD 88): 2.32	Date of Field Work: July 31, 2015		Datum Offset to NGVD 29:
Benchmark Agency: SFWMD	Benchmark Type: Precision Rod w/Sleeve		Benchmark Stamp: P16 2015
Reference Elevation (NAVD88): Removable Cap "A" = 2.72 (stamped on tag) Rim of Cap "B" = 2.79		Adjacent E	Natural Ground: Elevations Near Well Range from 2.7 to 2.9
Latitude: 25.4054591			Longitude: -080.4994094

Photographs:

Pic#1:



Pic#2:



Pic#3 3Ft:



Pic#3 10Ft:



Continued

Pic#4:



Pic#5



Pic#6 3Ft:



Pic#6 10Ft:



Pic#7:



- A Picture looking down (top view) at the open well.
- A picture looking down at the well head (with a ruler on it).
- An oblique picture of the well approximately 3 feet and one at 10 feet from the well head.
- A picture of the well with the Brass Tag and reference points.
- **5** A picture looking down (Top view) of the benchmark disk.
- An oblique picture of the benchmark at approximately 3 feet and on at 10 feet from the benchmark
- **7.** A picture of the Brass Tag.

Party Chief:	Field Book	Number:	Page Number:
Jose Mendoza	586	5	45A
Benchmark Elevation (NAVD	Date of Fie	ld Work:	Datum Offset to NGVD 29:
88): 4.222	July , 2	2015	N/A
Benchmark Agency:	Benchmai	rk Type:	Benchmark Stamp:
SFWMD	Precision Roo	d w/Sleeve	P17 2015
Reference Elevation (NA	AVD88):		Natural Ground:
Removable Cap "A" = 4.508 (st	amped on tag)	Adjacent Elevations Near Well Range from	
Rim of Cap "B" = 4.569 (see pic#4)		4.8 to 4.9	
Latitude:			Longitude:
25.3985595			-080.5334007

Photographs:

Pic#1:



Pic#3 3Ft:



<u>Pic#2:</u>



Pic#3 10Ft:



Continued

Pic#4:



<u>Pic#5</u>



Pic#6 3Ft:



Pic#6 10Ft:



Pic#7:



- A Picture looking down (top view) at the open well.
- A picture looking down at the well head (with a ruler on it).
- An oblique picture of the well approximately 3 feet and one at 10 feet from the well head.
- A picture of the well with the Brass Tag and reference points.
- **5** A picture looking down (Top view) of the benchmark disk.
- **6.** An oblique picture of the benchmark at approximately 3 feet and on at 10 feet from the benchmark
- **7.** A picture of the Brass Tag.

REVISION 2 BENCH RUN ADJUSTMENT SHEETS

Closure Report for file C:\Users\Brennan.Mosciski\Desktop\150727_jose.lev

: 1297.07 Job No. Benchmark No. : C432

: 4.980 (PR16)

Starting BM Elev. : 7.080 Ending BM Elev. : 4.980 Unadjusted Ending Elev. : 5.004 Closure Error : 0.024 Length of Level Run : 21,149.400 Allowable Error : 0.060 Units : Feet Datum : NAVD88 Closure is within allowable tolerances

Adjustment proportional to total distance

Pt.#	Unadj. Elev.	Adj. Elev.	Description
		=======================================	=======================================
C432	7.080		
36-1	4.943	4.942	
36-2	4.930	4.929	
36-3	3.756	3.754	
36-4	3.003	3.001	
36-5	2.967	2.964	
36-6	3.387	3.384	
36-7	3.156	3.152	
36-8	2.927	2.922	
36-9	3.183	3.178	
36-10	3.175	3.170	
37-11	2.877	2.871	
37-12	2.323	2.317	
37-13	2.854	2.848	
37-14	3.177	3.170	
37-15	3.066	3.059	
37-16	3.342	3.334	
37-17	3.572	3.564	
37-18	3.127	3.118	
37-19	3.266	3.257	
37-20	3.067	3.057	
37-21	2.618	2.607	
37-22	2.802	2.791	
37-23	1.755	1.744	
38-24	2.785	2.773	
38-25	2.392	2.380	
38-26	2.635	2.622	

38-27	2.472	2.459	
38-28	3.049	3.035	
38-29	2.624	2.610	
38-30	2.950	2.935	
38-31	2.638	2.622	
38-32	3.623	3.607	
38-33	7.417	7.400	
38-34	7.564	7.547	
38-35	6.380	6.362	
42-36	4.519	4.501	
42-37	4.855	4.836	
42-38	4.934	4.914	
42-39	4.681	4.661	
42-40	4.151	4.130	
42-41	4.978	4.957	
42-42	3.907	3.885	
42-43	5.167	5.145	
42-44	3.532	3.509	
42-45	3.674	3.651	
42-46	4.696	4.672	
42-47	5.004	4.980	PR16

Closure Report for file C:\Users\Brennan.Mosciski\Desktop\7-28-15 Jose.lev SFWMD Bench runs for well BM's at P14 and P17

J. Mendoza E. Pryor R. Miller

Field Book & Page : 586/43-44 Job No. : 1297.07 Benchmark No. : 586-8-15 ADJ

Starting BM Elev. : 5.861

Starting BM Elev. : 5.861 Ending BM Elev. : 5.544 (586-8-16 ADJ)

Unadjusted Ending Elev. : 5.524 Closure Error : -0.020 Length of Level Run : 9,201.200 Allowable Error : 0.040 Units : Feet Datum : NAVD88 Closure is within allowable tolerances

Adjustment proportional to total distance

Pt.#	Unadj. Elev.	Adj. Elev.	Description
=======	=========	=========	- ==========
8-15	5.861		
43-1	4.855	4.856	
43-2	4.658	4.660	
43-3	4.727	4.730	
43-4	5.111	5.115	
43-5	4.217	4.222	
43-6	5.111	5.116	
43-7	4.727	4.733	
43-8	4.654	4.661	
43-9	4.850	4.858	
43-10	5.311	5.320	
43-11	5.882	5.892	
43-12	6.197	6.208	
44-13	7.155	7.167	
44-14	8.139	8.152	
44-15	7.549	7.563	
44-16	8.135	8.150	
44-17	7.149	7.165	
44-18	6.189	6.206	
44-19	5.872	5.890	
44-20	5.300	5.319	
8-16	5.524	5.544	

Reference file 129707 Org ADJ 4-2-15.pdf for the adjusted run from which this run is adjusted to.

REVISION 2

WELL SITE BENCH MARKS



Rev. 8/07

DESIGNATION C111W12 201	15	PRO	PROJECT C111 LiDAR AND WELL SITES		
ESTABLISHED BY WANTMA	N GROUP		SURVEYOR Derek Zeman		
RECOVERED BY		DA	FE JULY 27, 201	5	
	GEOG	RAPH	IC POSITION		
SECTION 3	TOWNSHI	P 58S		RANGE 38E	
COUNTY Miami-Dade		NAM	E OF QUADRAI	NGLE Royal Palm Ranger Station	
HORIZONTAL DATUM: 1927	1983 Other		(circle o	ne) ZONE (E) or W	
VERTICAL DATUM: MSL	1929 1988 O	ther _	ner (circle one)		
CONTROL ACCURACY: H	ORIZONTAL 1	2 3	(circle o	ne) VERTICAL 1 2 3	
STATE PLANE COORDINATES	X 813211.3537	Y	393266.0099	NAVD 88 ELEV. <u>4.13</u>	
COOKDINATES			_	NGVD 29 ELEV	
LATITUDE 25.4147484			LONGITUDE -080.5241978		
	RECOV	ERY I	DESCRIPTION		
Stamping: P12 2015					
To Reach: From the intersection of Tower Rd and Ingraham Hwy head west along Ingraham Hwy for 1.1 miles. Turn left onto SW 380 th St and head West for .5 miles. Mark is on the left, 1' north of a carsonite witness post. Set precision rod with PVC sleeve and lid.					
Notable Land marks: Well P1	12				
FIELD BOOK 586	PAGE 4	12			







Rev. 8/07

DESIGNATION C111W14 2015	5	PROJECT C111 Li	OAR AND WELL SITES							
ESTABLISHED BY WANTMAN	I GROUP	SURVEYOR Derek	SURVEYOR Derek Zeman							
RECOVERED BY		DATE JULY 27, 201	5							
	GEOGR	RAPHIC POSITION								
SECTION 4	TOWNSHIP	58S	RANGE 38E							
COUNTY Miami-Dade		NAME OF QUADRA	NGLE Royal Palm Ranger Station							
HORIZONTAL DATUM: 1927	1983 Other_	(circle o	ne) ZONE E or W							
VERTICAL DATUM: MSL	1929 1988 Otl	her (circle	one)							
CONTROL ACCURACY: HO	RIZONTAL 1 2	(circle one) VERTICAL 1 2 3								
	X 810098.6232	Y 391817.5119	NAVD 88 ELEV. <u>7.563</u>							
COORDINATES			NGVD 29 ELEV							
LATITUDE 25.4107931		LONGITUDE -080.5336436								
	RECOVE	ERY DESCRIPTION								
Stamping: P14 2015										
	nd head North for .5		west along Ingraham Hwy for 2.4 miles. ur right, 1' North of a carsonite witness							
Notable Land marks: Well P14	ļ									
FIELD BOOK 586	PAGE 44	1								







Rev. 8/07

DESIGNATION C111W15 201	5	PRO	PROJECT C111 LiDAR AND WELL SITES								
ESTABLISHED BY WANTMA	N GROUP	SUF	SURVEYOR Derek Zeman								
RECOVERED BY		DA	FE JULY 22, 201	5							
	GEOGI	RAPH	RAPHIC POSITION								
SECTION 10	TOWNSHIP	5 8S		RANGE 38E							
COUNTY Miami-Dade		NAM	E OF QUADRA	NGLE Royal Palm Ranger Station							
HORIZONTAL DATUM: 1927	1983 Other_		(circle o	ne) ZONE E or W							
VERTICAL DATUM: MSL	1929 1988 Ot	her _	(circle d	one)							
CONTROL ACCURACY: HO	ORIZONTAL 1 2	2(3)	(circle o	ne) VERTICAL 1 2 3							
STATE PLANE	X 817491.9441	Υ	389245.0167	NAVD 88 ELEV. <u>1.75</u>							
COORDINATES				NGVD 29 ELEV							
LATITUDE 25.4036421			LONGITUDE	-080.5112737							
	RECOV	ERY I	DESCRIPTION								
Stamping: P15 2015											
and turn left onto SW202nd Av miles. Mark is on your right, 6.5	re. Head South for . 5' North of a carson	7 mile	s and turn left or	vest along Ingraham Hwy for 1.1 miles to SW 392ns St. Head East for .4 recision rod with PVC sleeve and lid.							
Notable Land marks: Well P1	5										
FIELD BOOK 586	PAGE 3	8									







Rev. 8/07

DESIGNATION C111W16 2015		PROJECT C111 LiD	AR AND WELL SITES							
ESTABLISHED BY WANTMAN	GROUP	SURVEYOR Derek Zeman								
RECOVERED BY		DATE JULY 22, 201	5							
	GEOGR	APHIC POSITION								
SECTION 2	TOWNSHIP	58S	RANGE 38E							
COUNTY Miami-Dade		NAME OF QUADRAI	NGLE Homestead							
HORIZONTAL DATUM: 1927	1983 Other_	(circle o	ne) ZONE E or W							
VERTICAL DATUM: MSL 19	929 1988 Oth	ner (circle o	ne)							
CONTROL ACCURACY: HOP	RIZONTAL 1 2	(circle one) VERTICAL 1 2								
	821403.5415	Y 389919.4813	NAVD 88 ELEV. <u>2.32</u>							
COORDINATES			NGVD 29 ELEV							
LATITUDE 25.4054591		LONGITUDE	-080.4994094							
	RECOVE	RY DESCRIPTION								
Stamping: P16 2015										
	East for .1 miles. N		South along Tower Rd for .9 miles and 4.9' North of a carsonite witness post.							
Notable Land marks: Well P16										
FIELD BOOK 586	PAGE 37	7								



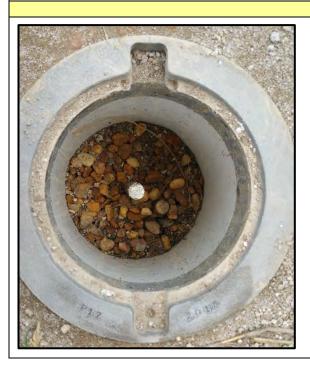




Rev. 8/07

DESIGNATION C111W17 201	5	PRO	OJECT C111 Lie	OAR AND WELL SITES						
ESTABLISHED BY WANTMA	N GROUP	SUF	SURVEYOR Derek Zeman							
RECOVERED BY		DAT	DATE July 27, 2015							
	GEOG	RAPH	IC POSITION							
SECTION 9	TOWNSHIP	5 8S		RANGE 38E						
COUNTY Miami-Dade		NAM	E OF QUADRA	NGLE Royal Palm Ranger Station						
HORIZONTAL DATUM: 1927	1983 Other		(circle o	ne) ZONE E or W						
VERTICAL DATUM: MSL	1929 1988 Of	ther _	(circle o	ne)						
CONTROL ACCURACY: H	ORIZONTAL 1 2	23 .	(circle o	ne) VERTICAL 1 2 3						
STATE PLANE COORDINATES	X 810184.7379	Y	387371.9528	NAVD 88 ELEV. <u>4.222</u> NGVD 29 ELEV						
LATITUDE 25.3985603		•	LONGITUDE	-080.5334298						
	RECOV	ERY [DESCRIPTION							
Stamping: P17 2015										
	nd head South for .3 'C sleeve and lid.			West along Ingraham Hwy for 2.4 miles. r left, 1.2' West of a carsonite witness						
Notable Land marks: Well Pi	1									

FIELD BOOK 586 PAGE 43



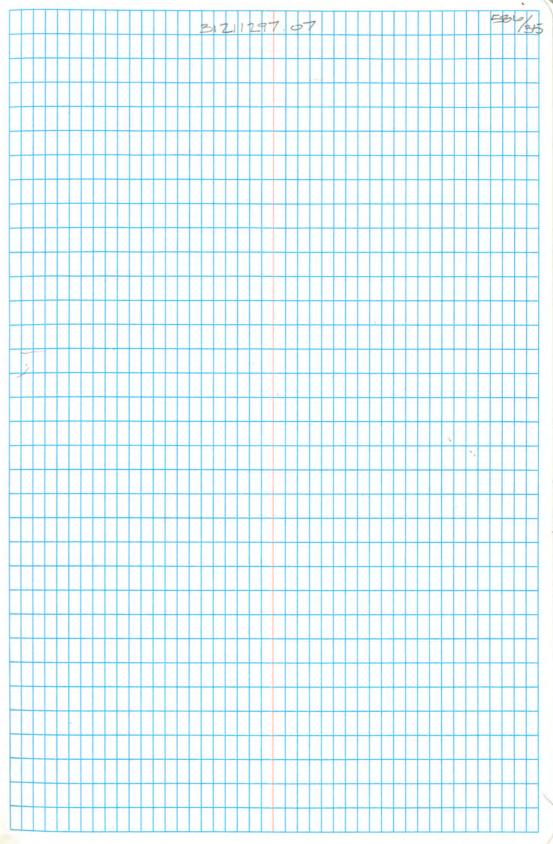


REVISION 2

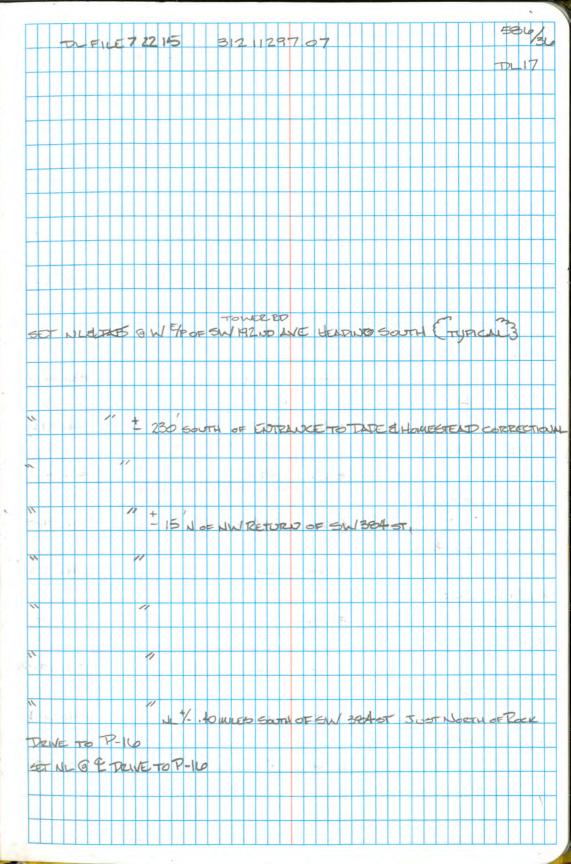
FIELD NOTES

8-19-15		SEWMO				shboard W Navigator Kona C Search M Collogs C Search	
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2 miller				A TOTAL LA		LEVEA 21	
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	7,016	10.936		3,896	Ak-5 2015		
			6.14	4.796	NORTH/SOUTH &		
				7,796	EAST/WEST F		
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	4.57						
			4.24	5,5%	NORTH / SOUT		
			1. 011			Ak-G	
			4,24	5.596	EAST / WEST		
		VC-1					
				4.143	VC-1 2015		
	4.56	8.703					
			4.09	4.613	NOETH/SOUTH		
			L			H-H-H-Wd-1	
			4.09	4.613	EAST /WEST		
		VC-2			110.7		
				2.865	AC.S		
	5.04	7,905	1100	3 1.55	NOCTH/SOUTH		
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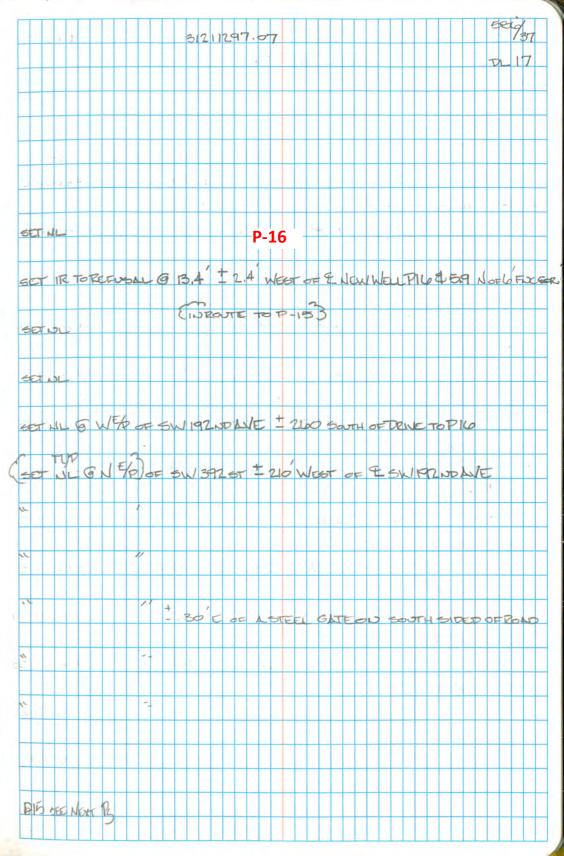
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4.164	254.4						500-30-4
			4.917	252,7		3,003	500 30 7
4.54	244.6						
			4,577	243.5		2967	500-36-5
5,467	250.8						
			5.047	251.1		3.387	526-36-6
4.793	1100						
			5.024	210.8		3,156	526-367
5.012	259.1						
			5.14	20,5		2.927	526.36-8
5,279	253.5						
			5.023	253.1		3.183	5906-36-9
4,708	143,6						
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	1410			2400.5			



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209.9				ELEV		Tree
209.9	4				March State	TESC
	4			3,175		586-36-10
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	-	4.865	44,5	2,654		586-37-13
208.3						- 4
	4	-,637	215,5	3,177		586-37-14
240.0						
	-	19180	249.3	3.000		586-37-15
239.3						
	-	4.678	241.1	3.347		586-3746
255.5						
	4	,800	254.3	3,572		586-37-17
252.9						
	Į.	5,280	251.5	3.127		526-37-18
251.1						
		4,000	253.80	3.2100		586-37-19
251.4						
	_	1950	251.0	3.067		500-31-20
25009						
	-	5.102	260,6	2,6190		F306-37-21
2620						
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100		7,0-70				7,55
46.6		5 DEA	4710	1755		586-3773
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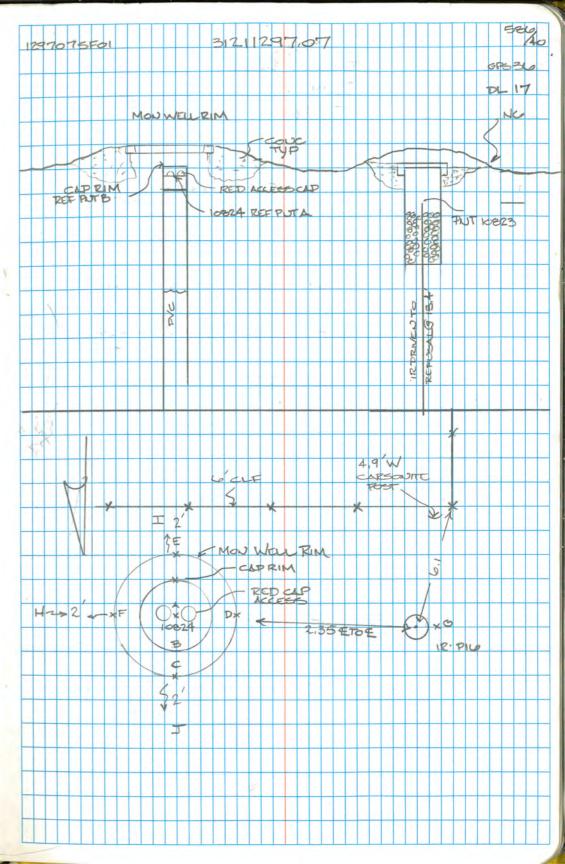
7-22-15			SFWMI				90°00
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			4,645	10380	1,180		500 50-27
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	- U.	1-1	5.214	256.8	2,392	-	500-36-25
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			4.936	249.6	2,635		586-38-26
4923	253.4						
	Э		5.086	249.3	2.472		586-38-27
5,039	255.1						
		1	4,462	250.4	3,049		58436-26
4.700	244.9						
			5,125	249.9	2.624		530-3629
5.244	252.0						
,			4918	251.3	2,950		566-38-30
5,007	256.4		.,.,0				
2,00/	25017		5,379	254.2	2,638		586-28-31
5.494	2511		-21261				
5,44	45119		4,509	252,7	3,623		586-38-37
V-2-2-1			7,304	60 61 1			
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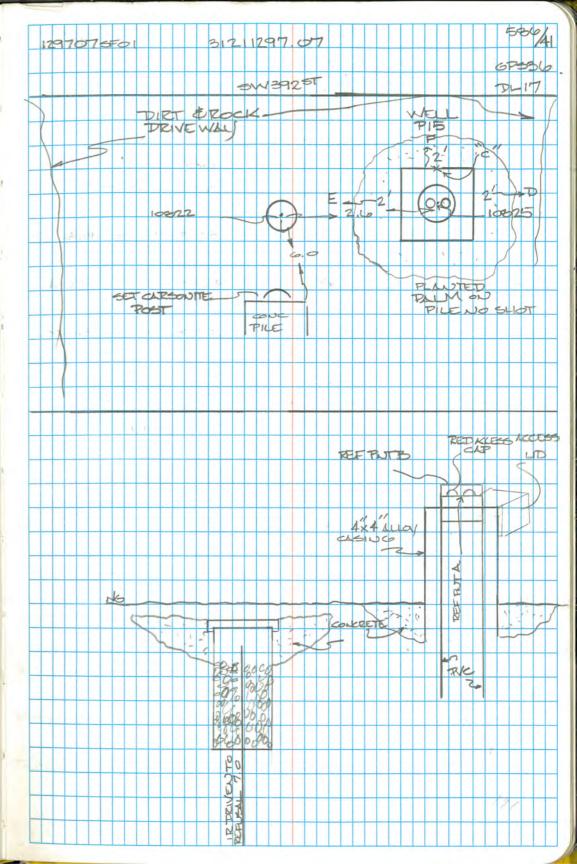
7-24-15)		SFWMI	7			90°C10
MENDOZA		-	SIELLOC	COUT			
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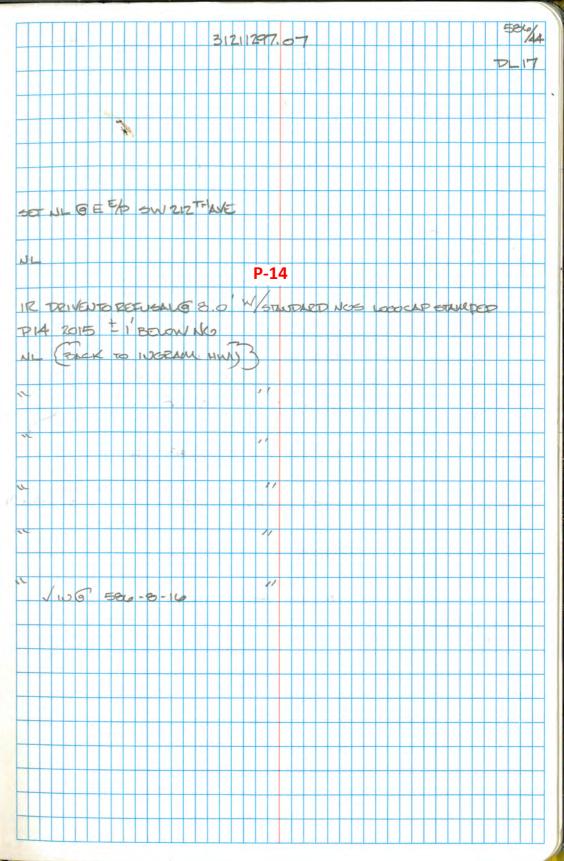
7-27-15		SEV	VIMP			90°C10	7-22-15
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		5,402	259,4	4.055		586-42-37	
5,606	247.9						
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5544	255.9						
		5,797	252,3	4.601		586-42.39	77-1
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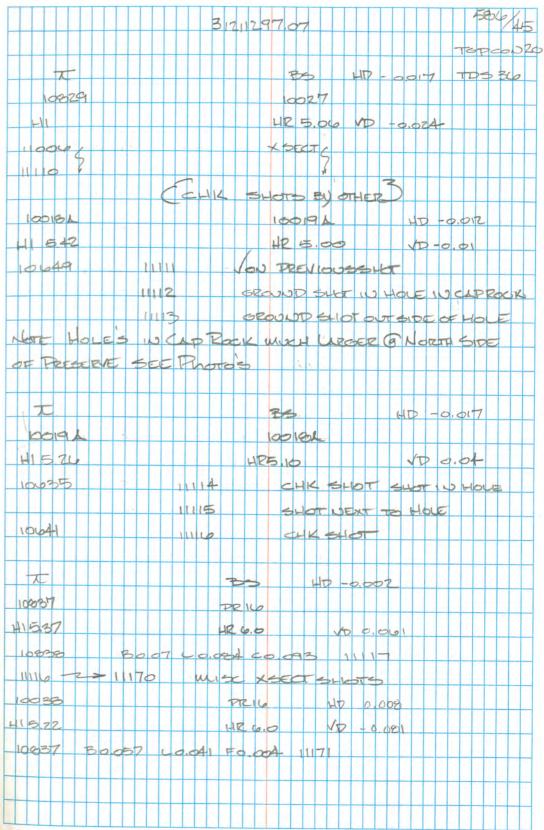
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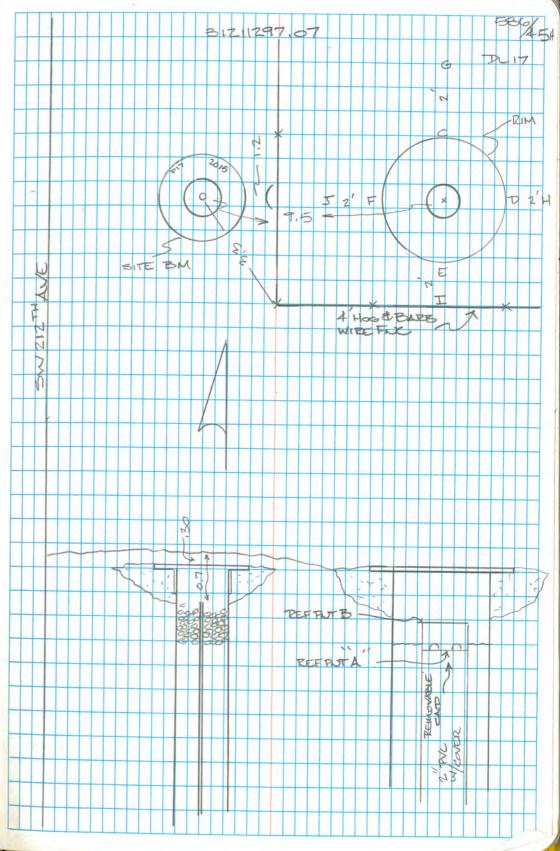


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