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Identification_Information:
          Ci tati on:
                     Citation_Information:
                              Originator: Mike J. Bartholomew
 Mike J. Bartholomew
                              Publication_Date: Unpublished material
Publication_Time: Unknown
Title: Martin County Tape Down Wells (M1270)
 Biscayne Engineering
                              Edition: 1.0
                              Series_Information:
                              Publication_Information:
Larger_Work_Citation:
                                        Ci tati on_I nformati on:
                                                  Series_Information:
                                                  Publication_Information:
          Description:
                     Abstract: S.E. Bridge Road, Martin County, Florida
Purpose
                    Purpose:
                              To establish elevations on the well and on a disc set adjacent to
 the well
                              and provide the results in NAVD-88 format in accordance
                              with the CERP height modernization program
                    Supplemental_Information: None
          Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Survey Date
                              Range_of_Dates/Ti mes:
Begi nni ng_Date: 20050801
                                        Ending_Date: 20050901
                              Mul ti pl e_Dates/Ti mes:
                    Currentness_Reference: Date and Time Range of Field/Office Work
          Status:
                    Progress: Complete
                    Maintenance_and_Update_Frequency: Unknown
          Spati al _Domai n:
                    Boundi ng_Coordi nates:
                              West_Bounding_Coordinate: -080°13'46"
                              East_Bounding_Coordinate: -080°13'46"
                              North_Bounding_Coordinate: +27°02'40"
                              South_Boundi ng_Coordi nate: +27°02' 40"
          Keywords:
                     Theme:
                              Theme_Keyword_Thesaurus: None
                              Theme_Keyword: Well Site
                              Theme_Keyword: MARTIN
                              Theme_Keyword: M1270
                    PI ace:
                              Pl ace_Keyword_Thesaurus: None
                              Place_Keyword: Well Site
Place_Keyword: Martin County, Florida
Place_Keyword: S. E. Bridge Road
Place_Keyword: Sec. 27, Twp. 39S, Rge. 41 E
                    Stratum:
                    Temporal:
          Access_Constraints: None
           Use_Constraints: None
          Point_of_Contact:
                    Contact_Information:
Elvie Ebanks
                              Contact_Person_Pri mary:
                                        Contact_Person: Elvie Ebanks
SFWMD
                                        Contact_Organization: South Florida Water Management
 District
                              Contact_Organi zati on_Pri mary:
                              Contact_Position: Project Manager
                              Contact Address:
                                        Address_Type: mailing and physical address
Address: 3301 Gun Club Road
                                        City: West Palm Beach
                                        State_or_Province: FI
Postal_Code: 33406
                                        Country: USA
```

Page 1

M1270. gen

Contact_Voi ce_Tel ephone: (561) 753-2400 x4717 Contact_Facsimile_Telephone: (561) 791-4093

Securi ty_Information:

Cross_Reference:

Ci tati on_I nformati on:

Seri es_I nformati on: Publication_Information:

Data_Quality_Information:

Attribute_Accuracy:

Attri bute_Accuracy_Report: This Survey was prepared using GPS and Leveling

Equipment Used

instruments. The horizontal location of the well was established using GPS. The vertical data was collected using level Wild NA-2. Coordinates are based on the Florida State Plane Coordinate System, East Zone, NAD 83/90. Elevations based on NAVD88

Logi cal _Consi stency_Report:

Horizontal data was established using NGS control points AJ5611 (P 516) and AC5348 (BR 26 A). Vertical data was established using NGS benchmarks AC5345 (I 95 89 A 24 REF MK) and AC5343 (I 95 89 A 24). Coordinates are based on the Florida State Plane Coordinate System, East Zone, NAD 83/90. Elevations are based on NAVD88.

Completeness_Report:

Project Results

Horizontal location taken at approximate center of well. Lat. +27°02'39.783" Long. -080°13'45.829"

N 986072.428 E 906996.021

New leveled elevations.

New site benchmark "M1235" is a standard S.F.W.M.D.

brass disc set in a concrete headwall adjacent to the well. Disc Elevation is 15.17' (NAVD88)
Top of Pipe (well M1270) Elevation is 16.79' (NAVD88) based on NGS NAVD88 adjustment of vertical network.
Origin of NAVD88 elevation for BM "M1235" and well "M1270" is closed bench level circuit through NGS benchmarks AC5345 (I 95 89 A 24 REF MK) and AC5343 (I 95 89 A 24)

Well is situated North of S.E. Bridge Road (S.R. 708), and East of I-95, in Section 27, Township 39 South, Range 41 East,

Martin County, Florida

TO REACH the well from the intersection of Interstate 95 and S.E. Bridge Road (S.R. 708), travel East on S.E. Bridge Road for 0.3 miles (more or less) to an entrance (dirt road) on the left (North). Turn left and travel North to a fence marking the North Right-of-Way line of S.E. Bridge Road (S.R. 708), and the well on the left. Well is situated South of a chain link fence, 4.5 feet (more or less) West of a well "M1235", and 46 feet (more or less) West of a SFWMD disc stamped "M1235 2005" set in a concrete headwall for the disch (on the West side of the in a concrete headwall for the ditch (on the West side of the dirt road). Top of well is beneath the ground surface inside of a valve box which is flush with the ground.

Posi ti onal _Accuracy: Hori zontal _Posi ti onal _Accuracy:

Horizontal

Horizontal_Positional_Accuracy_Report:
The horizontal position of the well "M1270" was

established using differential GPS. NGS points AJ5611 (P 516) and AC5348 (BR 26 A) were used

as a source of horizontal control.

Quanti tati ve_Hori zontal _Posi ti onal _Accuracy_Assessment:

Horizontal_Positional_Accuracy_Value: 1 meter Horizontal_Positional_Accuracy_Explanation: The intended

horizontal positional accuracy for this survey is 1 meter

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report:

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M1270. gen
                                          A level line was run originating on NGS control point AC5345 (I 95 89 A 24 REF MK) with NAVD-88 elevation,
Level Line
                                          running through well "M1270" and disc "M1235" and
terminated on
                               point AC5343 (I 95 89 A 24) in accordance with Florida Minimum Technical Standards.

Quantitative_Vertical_Positional_Accuracy_Assessment:
    Vertical_Positional_Accuracy_Value: 0.02 feet
    Vertical_Positional_Accuracy_Explanation: A bench level
circuit was performed between AC5345 (I 95 89 A 24 REF MK) and AC5343 (I 95 89 A 24), running through well "M1270" in accordance with Florida Minimum Technical Standards
(Chapter 61g17-6, FAC). Length of benchmark run is 0.758 miles. Allowable error is 0.04
feet. Achieved Accuracy is 0.025 feet.
          Li neage:
                     Source_Information:
                                Source_Ci tati on:
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Time_Period_Information:
                                                     Single_Date/Time:
                                                     Range_of_Dates/Times:
                                                     Mul tiple_Dates/Times:
                     Process_Step:
                                Process_Description:
                                          The horizontal work was performed using Ashtech GPS
                                          recievers. The vertical work was performed using level
Wild
                                          N-A2
                                Process_Date: 20050823
                                Process_Time: 09000000
                                Process_Contact:
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                                                     Contact_Organi zati on_Pri mary:
                                                     Contact_Address:
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          Spatial_Reference_Information:
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                                                     Si nusoi dal:
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Page 3

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Transverse_Mercator: van_der_Gri nten:

Stereographic:

Space_Obl i que_Mercator_(Landsat):

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                                                                  Transverse_Mercator:
                                                      Uni versal _Pol ar_Stereographi c:
Pol ar_Stereographi c:
State_Pl ane_Coordi nate_System:
                                                                  Lambert_Conformal_Conic:
Transverse_Mercator:
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                                 Local:
                                 Geodetic_Model:
                      Vertical_Coordinate_System_Definition:
                                 Al ti tude_System_Defi ni ti on:
                                 Depth_System_Definition:
Entity_and_Attribute_Information:
           Detailed_Description:
                      Enti ty_Type:
                      Attri bute:
                                 Attribute_Domain_Values:
                                 Attri bute_Val ue_Accuracy_I nformati on:
           Overvi ew_Description:
Di stri buti on_I nformati on:
           Di stri butor:
                      Contact_Information:
                                 Contact_Person_Pri mary:
Contact_Organi zati on_Pri mary:
                                 Contact Address:
           Standard_Order_Process:
                      Di qi tal _Form:
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                                            Online_Option:
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                                           OffLi ne_Opti on:
                                                       Recording_Capacity:
           Available_Time_Period:
                      Time_Period_Information:
                                 Si ngl e_Date/Ti me:
                                 Range_of_Dates/Times:
Multiple_Dates/Times:
Metadata_Reference_Information:
           Metadata_Date: 20050823
           Metadata_Contact:
                      Contact_Information:
                                 Contact_Person_Pri mary:
                                            Contact_Person: Mike J. Bartholomew
Contact_Organization: Biscayne Engineering Company, Inc.
                                 Contact_Organization_Primary:
Contact_Position: Project Surveyor
                                 Contact_Address:
                                            Address_Type: mailing and physical address
Address: 529 W. Flagler Street
                                            City: Miami
                                            State_or_Province: FI
                                            Postal_Code: 33130
                                Country: USA
Contact_Voi ce_Tel ephone: (305) 324-7671
Contact_Facsi mile_Tel ephone: (305) 324-0809
Contact_El ectroni c_Mail_Address: mi keb@bi scayneengi neeri ng. com
                                                         Page 4
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M1270.gen
Hours_of_Service: 8:00 AM to 5:00 PM EST
Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: 1.0
Metadata_Time_Convention: Local time
Metadata_Security_Information:



Biscayne Engineering Company, Inc.
Date of Photo: 09-12-05
View: Looking West along Bridge Road (SR 706)
at I-95 (Well location near driveway at right)



Biscayne Engineering Company, Inc. Date of Photo: 09-12-05 View: Facing Northwest, looking at Well M-

1270 and benchmark "M1235 2005"



Biscayne Engineering Company, Inc. Date of Photo: 09-12-05 View: Facing North, Well M-1270 (at left) and Well M-1235 (at right)



Biscayne Engineering Company, Inc.

Date of Photo: 09-12-05

View: Well M-1270



Biscayne Engineering Company, Inc. Date of Photo: 09-12-05 View: Benchmark "M1235 2005" (facing West)



Biscayne Engineering Company, Inc. Date of Photo: 09-12-05

View: Benchmark "M1235 2005"

2548/00 #03-17478 A. REDERO T. LOPEZ: S.F.W.M.D N. CEFEDA "SITE-A" ESTABLISH ELEV. ON WELL M1039 EM ELEV TASC. MEAN HI MEAN 35 NG5 # AD 6243 15.03 FND DISC STAMPED 9.370 7.410 22.440 1 7.410 MAR 10 TLDMR. 5.450 78.2' FT W. OF US 1 S.S. LANE 450 FT N. OF COUNTY LINE NAVD 83 1.330 21:720 / SET COT NL 0.720 0.720 TP#1 0.110 8.770 6.690 28.410 4 SET CUT NL SHAKE 6.690 5.210 10.790 SET CUT NL 9.350 7.350 TP#2 7.710 3.810 2.260 21.370 4 SET CUT NL SHAKE 5.263 0.710 8.920 SET COT NL 7.400 7.100 TP#3 5.850

SAME #03-77478 CREW S.F.W.M.D "SITE-A"			2346 /0/
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/96	0	12000年	
7.7.4 4 0.47	5 1.215	SET BOD SPIKE	
5HAKE 6.540 6.540 23.93 5.810	3,000 or 100 or	SET 30 D SPIKE	-
5.50 4.06 7.62	9 7. 260	19.87 SET BO I) SPIKE	
S. 585 SHAKE 4.640 4.64 24.51 1 3.695	ACT - Reproper - Act - A	SET to 2 SPIKE	
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#103-77478 S.F. W.M.D. "SITE-A" (ELEV. CONT.)

SAME

CREW

3/3/05

STA 35 MEAN HI MEN 3.470 SHAKE 2.780 2.980 24.735 2.490

2 770 27.7.71 11/039 3.050 2.350 24.315 SHAKE 1.630 1:630

3.692 TP#7 3 555 2.555 1.165

3.646 2.650 27.476 SHAKE 2.050 1.660

0.910

5.480 TP # 8 7.510 1.130 1.23.

EM ELEV ELEV 12.5.

19.880 1

TOP OF FIRE ZZ.685 / WELL = M1039

> -TOP OF FAIL NOVELLE . A TOTA

21.760 MAG NE IN TREE TATAK

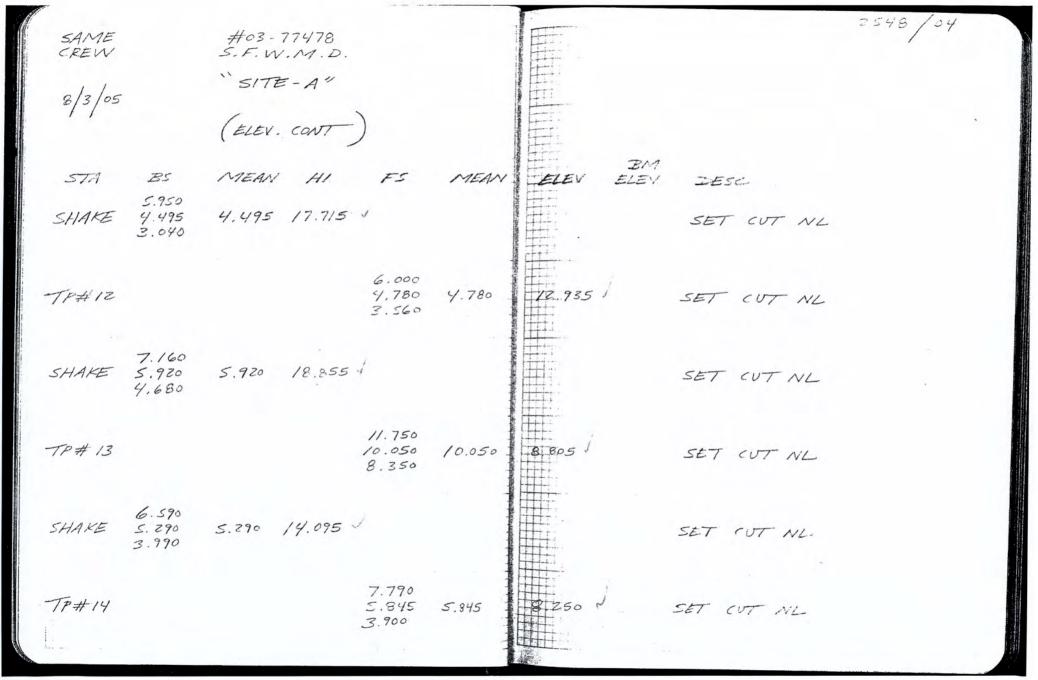
MAG AT A THE TRUE

SET 80 3 SPIKE

SAME 403-77478 CREW 5. F. W. M. D "SITE - A" 8/3/05 (ELEV. CONT) STA 25 MEAN /11 5.510 4.070 23.750 1 SHAKE 4.070 2.630 7.280 TP#9 6.550 6.550 5.820 2.340 SHAKE 1.650 1.650 19.050 V 0.960 6.010 TP# 10 5.120 5.120 4.750 7.130 5.710 19.640 V SHAKE S.710 4.290 € 080 TP # 11

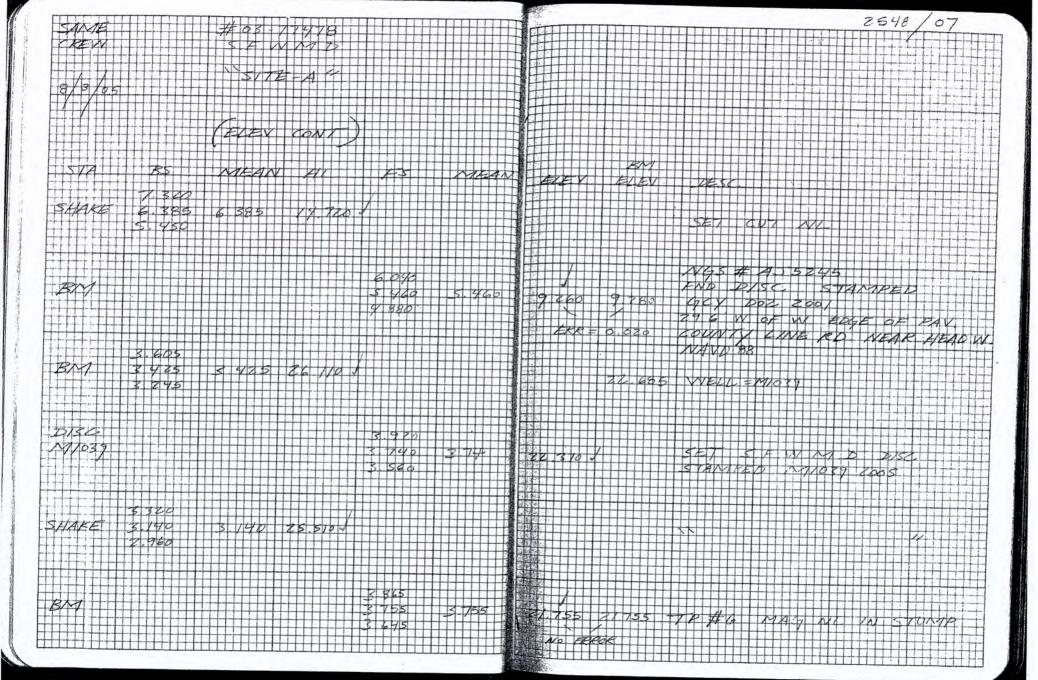
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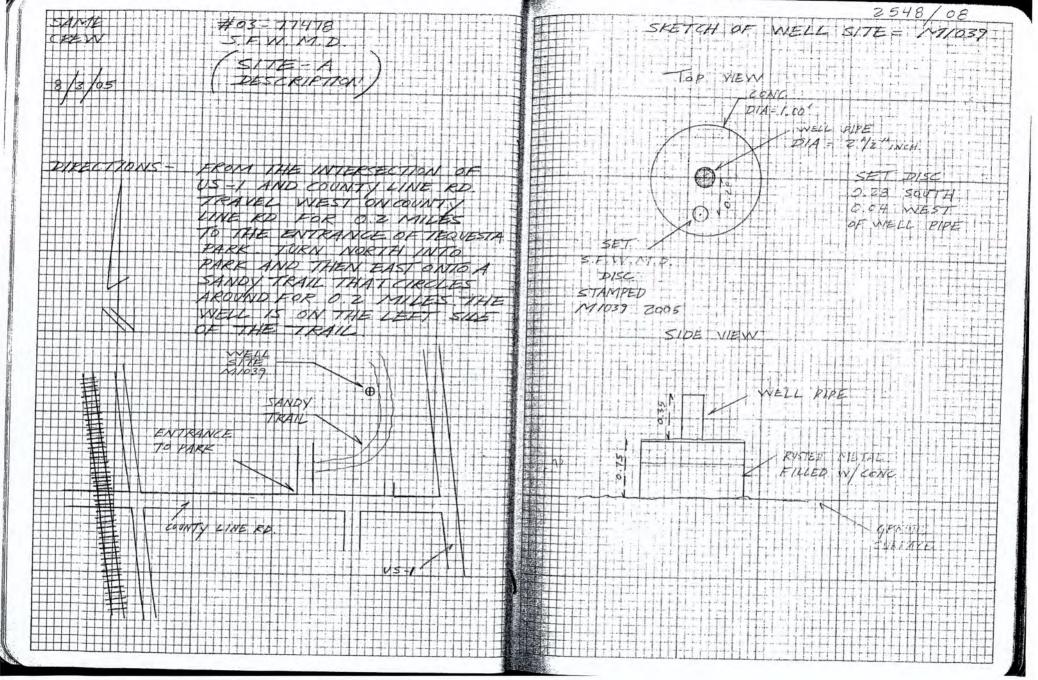
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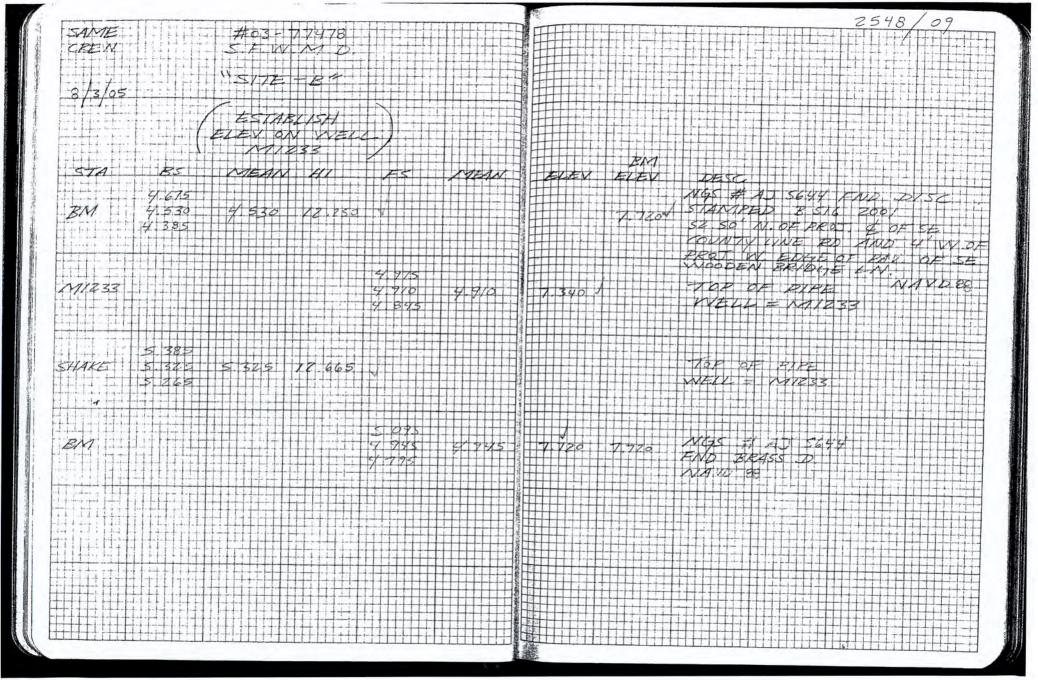


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	5.380		
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SHAKE	6.290 4.790 4.790 12.130 V 3.290		SET CUT W.
TP#17	5.150 3.305 1.460	3:305	8,825 / SET CUT NZ

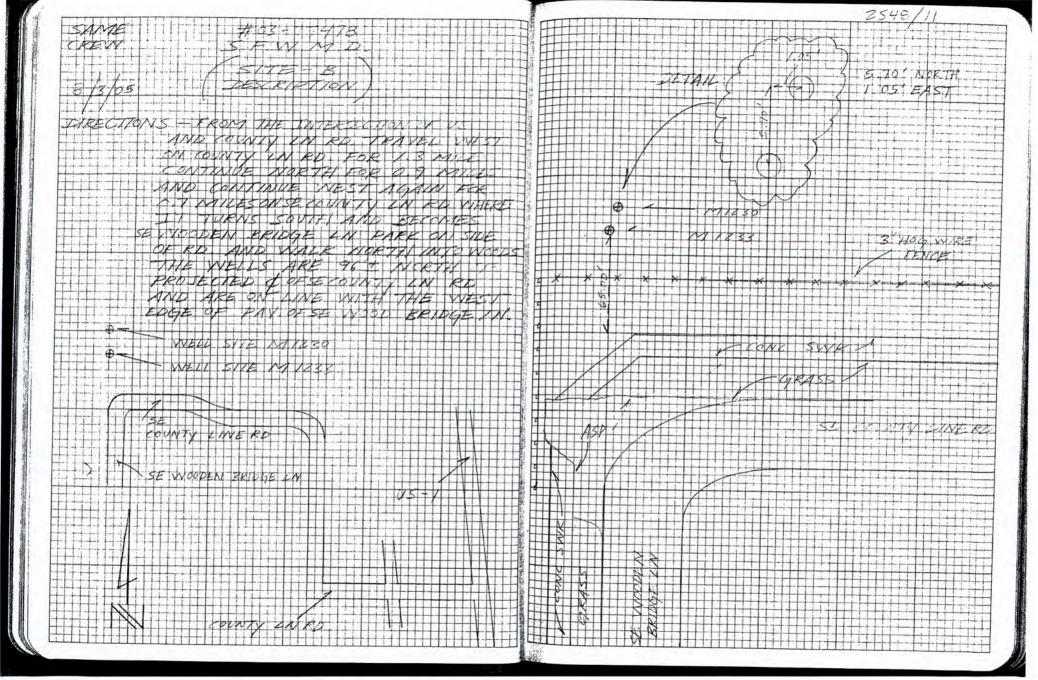
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N. CEPELA				
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				AT THE INTERSECTION OF PINE
				F WEST PALM LINE 13 FT
	6.5	20 11 11 11		NORTH OF WOOD PONER POLE
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	e leverage en	+			
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Per	of seaso to part of the control of t				
7.1500 SHAKE 5.195 3.240	5.195 9.790 1			SET CUT NL	
Control of the contro	Commission (Commission)				
TP#9	3.930 2.180 0.380	2.75	7 810	SET COT NL	

ec.D

	e commente de estado.		a and the	A 4 MARK A 7 (4 M)	The second section page			- 14.5 C 2000 (mm)	2548 / 15
CREW		#173-	77478 M.D						,
			* 1 1 2 2	4.					
3/4/05		5/7	E-C"				*	**	
1-1/		/-		`					
		ELE	V. COUT).					
			The state of the s	1			BM		
STA		MEAN	#1	F5	MEAN	ELEY	ELEY		
-111	7.570	6.49	111 100	1/1					
SAME	5.410	0.77	17.105					SET CUT NL	
			The same of the sa		Commission in the supplication				
				2.490			3		
TP#10		1.1		5.780 3.870	5.180	8.920	, 1	SET CUT NL	
	11		1	3.870		And the second s			
is a contactor	1110	erina e majo majo pravi e i majo.	CHARLES AND ARREST AND A STATE OF THE STATE	a ita ita kamanan Turka			1	· · · · · · · · · · · · · · · · · · ·	
SHAKE	5.740	4.705	13.625	v .				SET COT NL	
	3.670							201 201 112	
							5-W		
TP # 11		: :		5.900	C Pro	8.625	1. :	*	
11 #11				4.100	3.200	8.625		SET MAGNIL &	W
44.5	1	t and the second							
	4.750							MI W - 0 MM - 0	
SHAKE	4.300 3.850	4.300	12.935	1				SET MAG NL & V	V
	3.00								
				5.790					1944-014
M 1232				4.740	4.740	8 185	V	TEP OF PIPE	
				4.270	H			WELL = M/232	
United States						HH			

SAME CREW	10	#03- 5, F. W.							2548/16	
8/4/05		SITE	I-C"							
		(ELEV.	contt))						
57A	B 5	MEAN	H1	F5	MEAN	ELEV	BM	JESC		
SHUE	£.380 4.930 4.930	4.930	13.715	*				TOP OF PIPE WELL 1232		
		The state of the s	* ** · · · · · · · · · · · · · · · · ·					144 - 32		
251372				5.270 7.35 9.93	y.£50	8.265 /		TOP OF PIPE WELL 1229		
	4.893									
SHAVE	4.070	4.450	12.715	Í				TOP OF PIPE		
	The state of the s			4.540						
TP#12				4,090	4.070	8 625		SET MAY NL & W		
1	5.970		American and a second	7.000 (4000) ((4000)						
FHAKE	5.070	5.090	13.715					SET MAGNE & W		
		. Lucius and param		5.850						
TF#13		1 1 1		4.800	1.800	8.915		SET CUT NL	t .	,
				3.750						

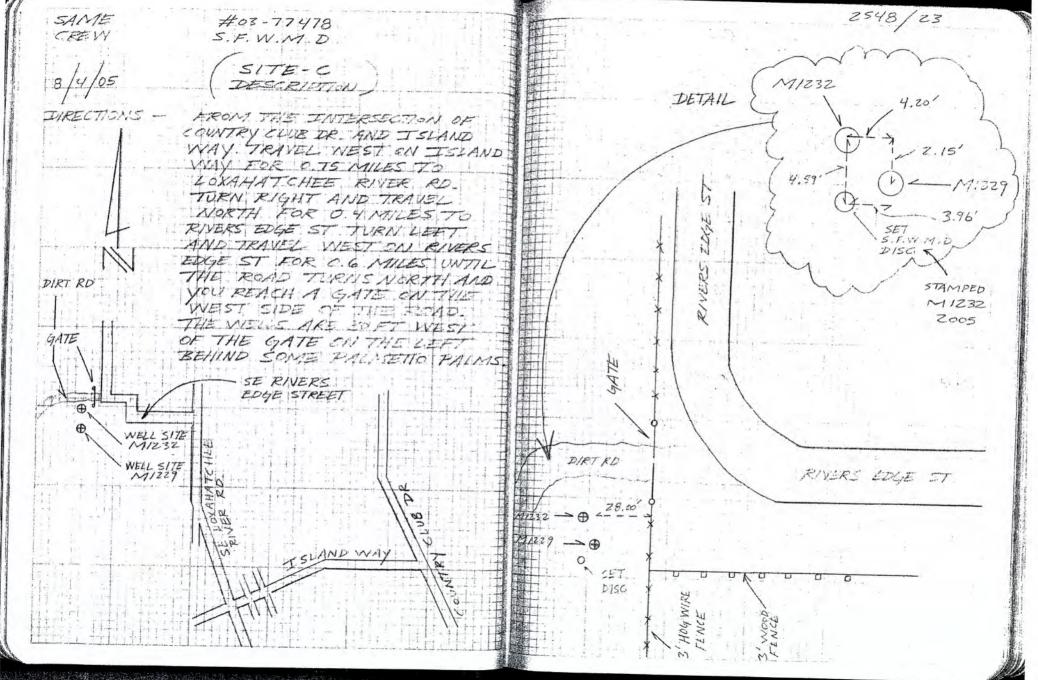
SAME		#03-77478 S.F.W.M.D.					25/12/17
8/4/05		V SITE - C	1	v veni			
		(ELEV. CONT.)			34		
. STA	25	MEAN HI	F5	MEAN	ELEV ELEV	2£5C	
SHAKE	6.640. 5.335 4.030	5.335 14.350				SET CUT NL	
-7P#14			7.736 6.675 5.560	E.:1/5	7.605	SET CUT NL	
SHAKE	4.150 2.475 0.8cm	2.475 10.085				SET OUT NL	
7/9/1/5			7.570 5.470 3.470	5.47.	\$1.570 J	SET CUT NL	
SHAKE	/1.450 9.175 6.940	9.195 /3.785				SET COT NL	
TP#16			7.00 4.83 7.68	4.820	8.965 /	SET CUT NL	

13/18 # 03 - 77478 CAME 5. F VI M 2 CREVE "SITE-0" 8/4/05 (ELEV. SONT) BM 571 B5 MEAN HI FS MEAN ELEV ELEV DESC 7.320 5.575 5.575 14.540 . SHAKE SET CUT NL 3.330 6.655 4.605 4.600 19.935 TP#17 SET CUT NL. 2.555 6.010 SHAKE 3.790 3.790 13.725 SET CUT NL 1.570 6 900 5.330 1 8.375 V TP#18 5.330 SET CUT NL 3.760 7.370 SHAKE 5.460 /3.855 : 5.440 SET CUT .NL 3.550 6.7:0 5.00 1 8.855 / TP#19 5.000 SET CUT NL 3.240

2548/19 #03-11-173 CREIN 5.5.11.1.1.2. "SITE-C" (ELEY. CONT) BM STA BS MEAN HI MEAN ELEV. DESC SHAKE 5.320 5.320 14.175 4 SET CUT NL 7. 280 8.215 1 11 / ZO 5.760 5.760 SET OUT NIL 4.645 7.780 SHAKE 6.340 6.340 14.555 SET CUT NL 4.900 9.230 7.635 TP#21 6.920 6.920 SET CUT NE 4.610 7.520 SHAKE 1.325 1.325 3.760 1 SET CUTT NE 0.130 7.290 13.425 TP#2 5.475 5.4195 SET CUT NL

#03-77478 CREW S.F.W.M.D "SITE-0" (ELEV. CONT) MEAN ELEV ELEV MEAN HI STA 7.283 14.355 7.330 SET CUT NL 5.7/0 7.380 6.190 6.190 3.165 1 TP#26 SET CUT NL 5,000 5.810 SHAKE 5.690 5.690 13.855 SET CUT NL 5.570 NGS # AJ 2646 7.61 FND FLANGE - ENCASED STAMLEST 7.33= 6.470 6.450 7.35 1721L 2011 7.160 STEMPING I SHE 7001 ERR = 0.02.04 INTERSECTION OF CONTRY SELE DRIVE AND ISLAND WAY. 13.7 FT N'M. OF THE HYDRAST. MAYD 88

SANIE #153-77478 CREVY S.F.W.M.D. V SITE C" 3/4/05 BM 574 25 MEAN 91 MEAN ELEV ELEY JEST 5.160 1.720 13, 185 BN1 4.930 8.265 WELL =M/227 4.650 4.930 #8. 523 A Z150 4.685 17,7232 1:440 SHAKE 4,720 4.465 12.745 11 11.210 4.7:5 4.342 1 32.625 EM 4.340 no Ereck o

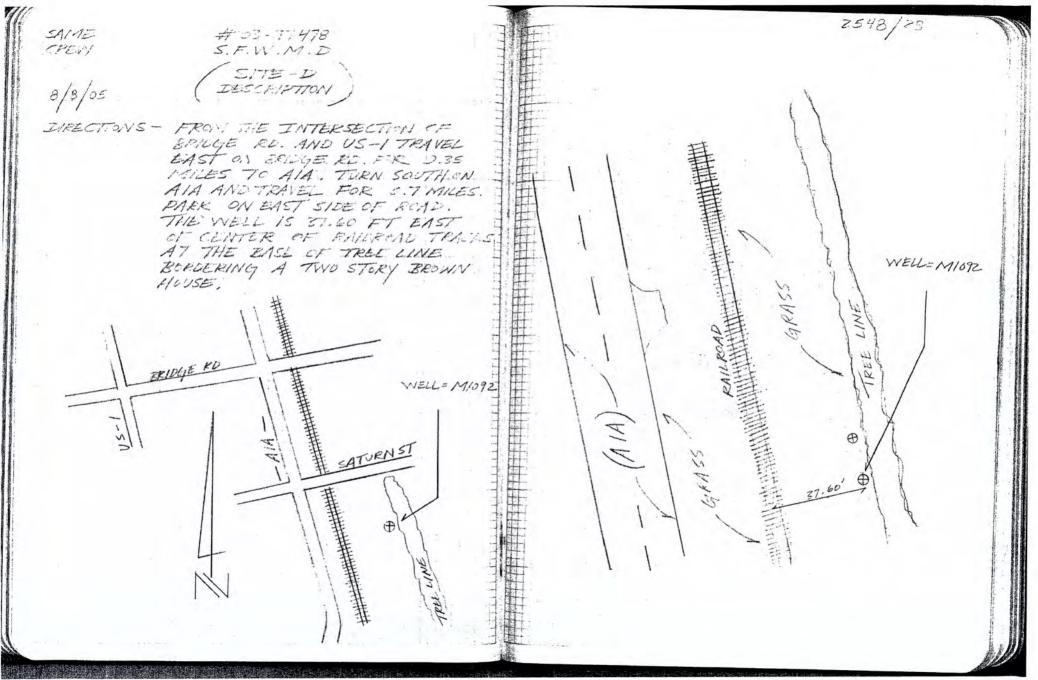


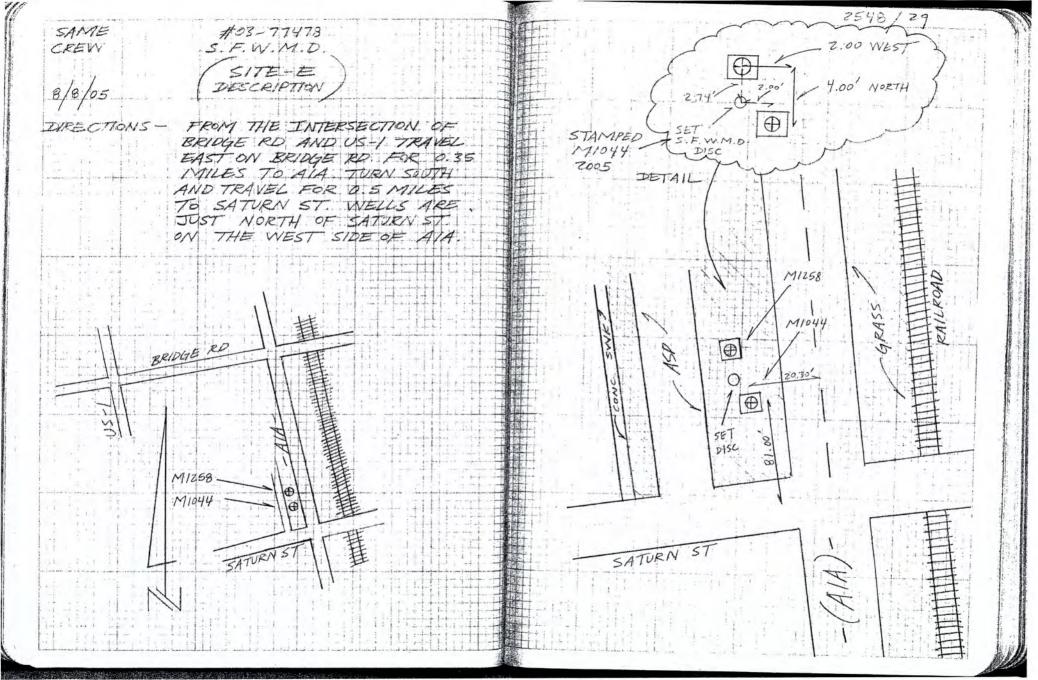
2548/20 #103-17478 S.F. W. W. E. A. PELSTO 7:107:12 W.CETELA " SITE-DIE" ESTAELISH! ELEV. ON WELLS 111092; 111044, M. 2581 311 35 MEAN AL ME ELEV 24.50 NGS# AF3553 6.570 7.920 | FNL IISC STAIMPEL DZZY 1965 5.310 5.310 13.230 1 BAT 0.7 MILES SOUTHEAST FROM 4.050 AIA AND SOUTHEAST EXIMERL. 20.3' NOTTRIANT IF HINER POLE. MAVE 33 5.430 M1092 7.305 1 15.925 1 7.305 -10' F 12" 1- 1211 - M1072 6.180 6.730 12.055 二份14年 4.780 TOP OF PIPE WELL = 14/1092 . 4.40 270 3.74 1 3.915 4 3.740 SET CIT NL 2.370 7.740 6.150 15.065 " SHAKE 6.150 SET CIT NL 4.560 6.290 4.95 7 70.160 1 TP#2 4.705 SET C.T NI. 3.520

SAME		#103-1 = = 1V	17 (T3 N.T. Z)					2548/25
3/8/05			CONT)				~ 90	
STA		NEAN			MEAN	BM ELEV ELEV	/ DESC	
5.49KE	5.540 4.680 3.370	4.680	14.340	1			SET CUT,	NL
N.F.(54)			× ,	6.480 5.740 2.000	5.740	9.100	TOP OF PIPE	WELL= MINYY
SHAKE	5.480 4.730	2.480	14.5801				TOP OF PIFE	WELL - MINY
/NJ/IEE		¥		5114 5766 4. 9.39	7.7	8 .830 /	Top of the	WELL - 11/255
SHAKE	71.330 14.477 1.776	2,00	14.950	<i>y</i>			TOP OF FIRE	WELL - 141858
7P#3				7.160 5.400 3.640	5.4007	7.450	SET COT NL	

2548, EG SAME # 01 15078 S. F.W. M. D CREVV "SITE 2 955" 5/9/05 (ELEV. CONT) EM BS MEAN HI FS MEAN TELLY ELEV STA 24:50 6.750 THAKE 5.720 5.730 14.68 V SET CUT NL 2.710 5.57 10.130 TP#4 11.5:70 1.550 SET CUT NL 71,571 6.340 SHAKE 18 5 6.805 16.935 1 SET CUT NL 5.270 4.260 2.495 2.475 74.440 -77 #5 SET CT NL 0.730 SHAKE 7.470 21.910 1 SET CUT NE. NGS# AF7531 FNO FLANCE - ENCASES STAINELT 5.220 3.910 - 18.000 18.000 STEEL ROZ EN1 3.710 STAMPING C403 1991 2.600 NO ERROR 1 147.6' NE OF AIA & 1.3' SE OF POWER POLE

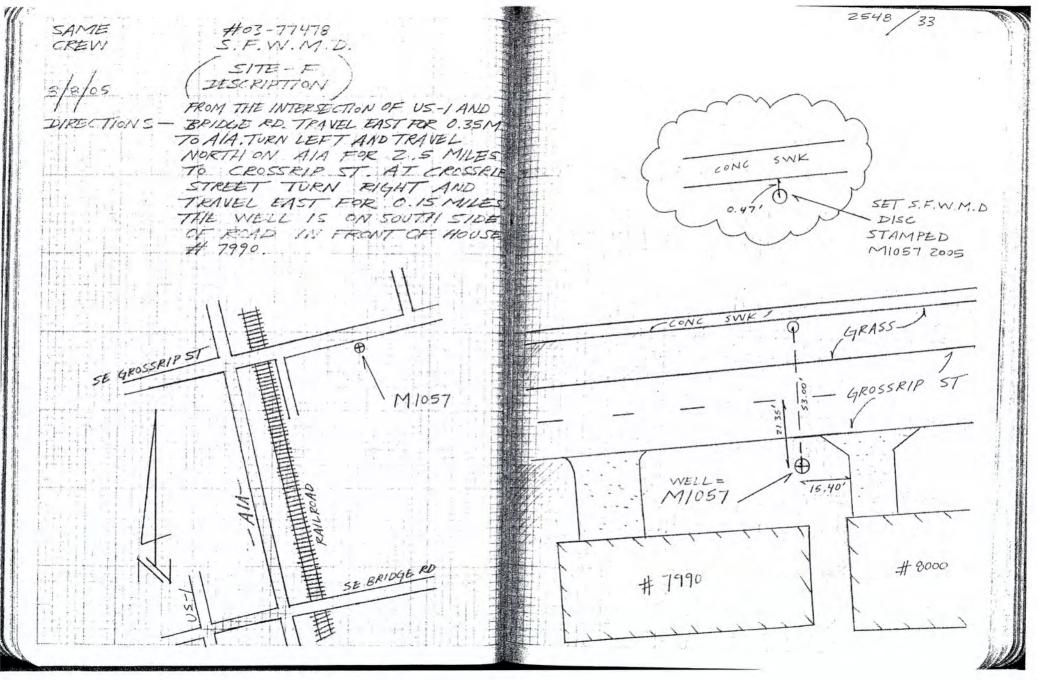
2542,27 #03-77478 SAME S.FW.M.D. CREW V SITE -E" 8/8/05 (ELEV. CONT.) EM MEAN ELEV F5 25 MEAN AL 574 ELEV. TESC 6.160 5.295 5.295 14.395 EM 9.100 WELL = MID44 11.4130 6.010 SET S.F.W.M.D. DISC DISC 19.260 5.135 5:135 STAMPED M1044 2005 11/044 4.260 6.300 5.430 14.690 SHAKE 5.430 4.560 5.260 70.760 10.160 TF# 2 CUT NL BM 4.530 4.530 3.800 NO ERROR !





#03-77478 SAME S.F.W.M.D. CREW "SITE-F" ESTABLISH ELEV. ON WELL M1057 BM MEAN HI FS MEANTHELEV STA BS. ELEV IESC NGS 17555 8.080 THE DISC STAMPED 2414 H 6.555 11.365 V £.555 4.810 ZM 23' W. OF & OF GOMEZ AVE 5,030 28 N. OF & OF PALM STREET BOX. NAVD 38 7.810 J. 350 1161015 5.350 TP#1 SET CUT NL 2.890 9.840 8.250 14.265 SHAKE 8.750 SET CUT NL ... 6.660 3.770 1.980 17.285 1.930 SET MAGNE & W -TP#2 0.190 6.490 18.395 -SHAKE 6.110 6.110 SET MAG NL &W 5.730 4.325 M1051 3.990 14.405 3.990 TOP OF PIPE WELL = 1/1057 3.655

2548/31 #03-77475 SAME 5. F. W.M.D. CREW SITE-F" 8/8/05 (ELEV. CONT) MEAN TELEV MEAN HI FS STA ES 211.W 2256 7 500 7.590 21.995 1 SHAKE 7 570 TOP OF PIPE WELL = 11/057 6.180 2.740 1.745 20.250 1.745 TP#3 SET CUT NL 0.550 6.790 6.420 26.670 1 SHAKE 6.470 SET CUT NL 6.050 NGS # 6781 FND DISC STAMPED PINE 1929 NO3 6.750 5.600 5.600 \$21.070 21.040 1980. 33.5 NW OF & OF SE BM GROSSRIP ST. 89.6 - 5W OF 4.950 AIA E. O.T SE OF WITNESS FOST. ERR = 0.030 14412 33



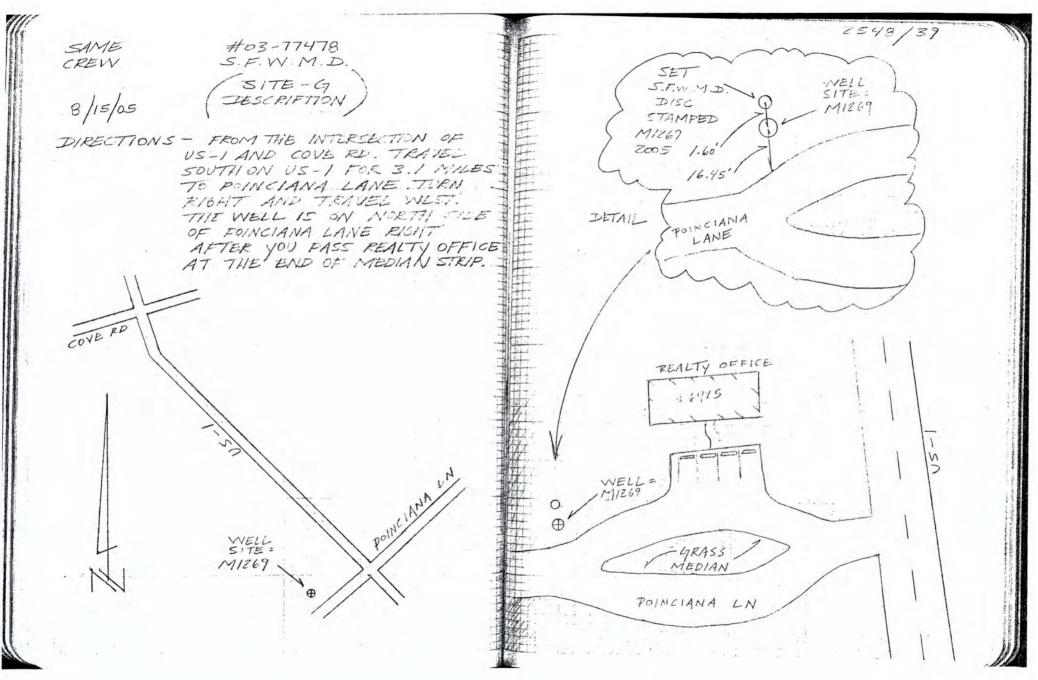
1. KELLER T. LOPEZ C. CHEN 8/15/05	Z 7730 Z	3: F. W	77478 1.M.Z. E-4"		A. S.	2519/34 H
STA	B= 4.160 3.320 2.480	MEAN	20.950 1	FS	MEAN	BM ELEV ELEV TESC NGS # AJSEL & SUN ZOSY 17.630 FNL DISC SWINTER & SUN ZOSY 250 S. OF TWIN RIVERS MOBILE
TP#1				5.920 4.635 3.350	4.635	HOME PARK ENTRANCE 3.8' NORTHWEST OF HOUSE FOLE. NAV. 83 SET CUT NL
SHAKE	7.320 5.845 4.370	5.845	22.160	Ĵ		SET CUT NL
TP#2				6.010 4.600 3.190	4.600	17.560 SET CUT NL
SHARE	7.470 5.730 3.990	5.730	23.290			SET CUT NL
TP#2				5.415 4.125 2.835	4.125	19.165 SET COT NL

2543/35 SAME #02-77478 S.F. W.M.D. CARLY VSITE - 67" 8/15/05 (ELEV. CONT) BM MEAN ELEV ELEV STA BS MEAN HI DESC 6.045 5.745 24.910 SHAKE 5.745 SET CUT NL 5.445 7.370 6.71= 177.995 M1269 TOP OF PIPE WELL = M1269 6.915 6.460 -7.630 11 6.440 24.435 SHAKE 6.440 5.250 6.420 4.80 179.635 77#44 4.800 LET CUT NL 3.130 6.660 4.890 24.525 SHAKE 4.870 SET CUT NL 3.120 6.900 5.610 78.915 TH#5 SET CUT NL 5.6/0 4.320

548/36 SAME #03-77478 S.F.W , Y. D. CREW "SITE- 4" 8/15/05 (ELEV. CONT) BM MEAN HI FS MEAN DEV STA B5 ELEV DESC 5.760 4.180 23.095 SHAKE 4.180 SET CUT NL 2.600 6.800 5.290 177.805 V TP#6 5.290 SET CUT NL 3.780 6.390 4.630 22.435 SHAKE 4.630 SET CUT NL 7.970 6.800 5.060 177.375 1 TP#7 5.060 SET CUT NL 3.320 SHAKE 4.975 4.975 72.350 SET CUT NL 6,370 4.995 4.995 7.355 1 TP#8 SET CUT IVL

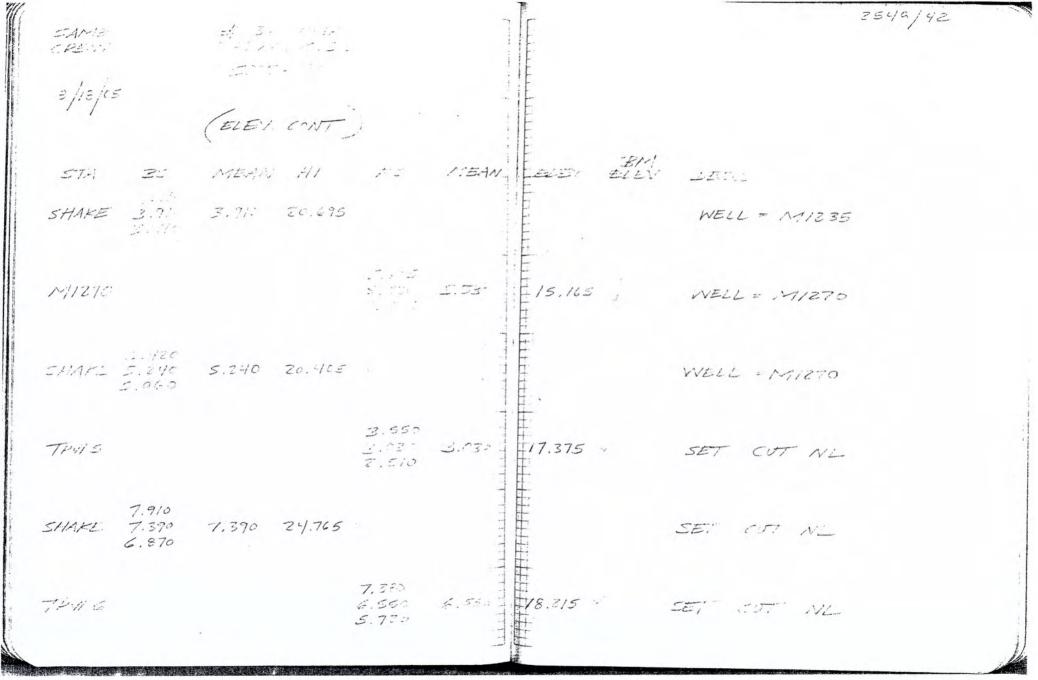
2548/37 #03-77478 SAME CREVV 5.F.W.M.D. " SITE - 9" 8/15/05 (ELEV. CONT) FS MEAN ELEV ELEV DESC STA MEAN HI 9.380
8.125 8.125 25.480 SET CUT NL 2.450 1.560 113.920 SET CUT NL TP#9 1.560 0.670 SHAKE 4.520 4.520 28.440 V SET CUT NL NGS# AJ 5619 6:170 FND DISC STAMPED L 517 200/ 5.925 5.925 122.515 ZZ.480 180' NORTHWEST FROM & OF BM 5.680 OSPREY ST. 11.2' NORTHEAST OF ERR = 0.035 / BARBED WIRE FENCE. NAVD 88

#03-77-178 51115 J. C. VV S.F.W M.D. "SITE-9" 0/15/05 (ELEV. CONT) FE MEAN ELEV ELLY JEST STA MEAN HI 735 EIG 6.315 24.605 V 3.3/0 17.995 / NELL = MIZE? 2. 30 6 2.70 5.700 コンバニ・ G. 290 11 18.315 1 SET S.F.W.Nd. 2 INSC 1-11269 STAMPEL MIZET 6.80 SHAKE 6.460 6.466 24.775 1 £.070 5.610 19.165 19.165 - 15 = 2 - 1 ZM 5. 610 5.150 No EFROR 1

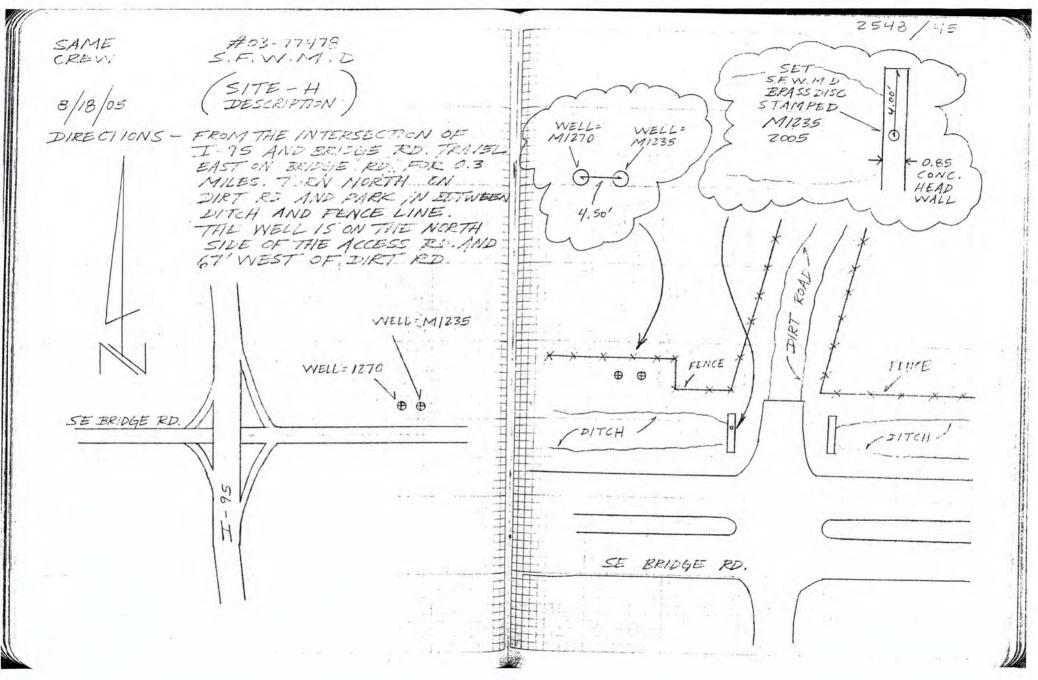


								2548/40
A. REDEKO		#103-77	1473		3			
T. LEPEZ A. SAITTAN	1 1	5. F.W.						
		V 55/7E	-140					
A/18/05						E		
		BUTAE	a sign					*
The same of the sa		1871 ON			+1			
-74					MEIN	ナノエソ	3M	The spirit spirit spirit
R.				7 3	- VENEZ.	-		111 6 16 1 2 5 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5
BM	4.860 4.320 3.780	4.320	45.75		Pro-	+	V 41.4/30	STANKED I 15 87 4 21 85 AV.
	2.780	/	7			-		IN LOVE OF THE P. SAME OF BANGE
					~!			THE NW END TOTAL BILLS
				16.543	1	‡	/	NAVD 33
TP#1				16. "FS	15.1 3	29.715	1	527 3: 2 SPX2
				15.530				
	mirror and a							
HAKE	3.010	7000	77 5/6	J.	H			
TIERE	2 390	6,5	36.265	Y		<u>t</u> .		SET F. W. S. S.
					#			
		-		14.630			7	
TP#Z				14.310	14.310	E/8,255	1	SET CIT NL
				13.99	事事			
			Office -		-#1			
	7.360		-11 -77 -	y.	士!			-
	T (1.17) XI SES	5.77	24,225		3			SET CUT NL
			4		用的			7.50
1			3.4	7 521	#			
TP#3				7.590 5.730	5.730	18.495	/	SET CUT ML
		b.		3.372	1			
Control of the second								į į

# 03-711475 S.F. W. W. D.	2548/41	
(ELEV TOUT)		
MEAN AN FE MEAN	EAZEV ELEV CISC	*
5.475 Z3.970 /	SET CUT NL	
7.368 5.750 5.750 4.140	E/8.220 CET CUT NL	The statement of the st
6.410 24.630	SET CUT NL	The second secon
8.940 8.490 6.490 8.040	SET S.F. W. M. D. BRASS D. STANNED MIZZE 2005	The state of the s
4.220 zo.36		A STATE OF THE STA
3.770 2.975 3.375 5.370	16.785 WELL = 11235	
	S.F. N. 7. D. "SITE -11" (ELEV 70.7) MEAN AL ES MELLN 3.475 23.970 7.360 5.750 5.750 4.740 6.410 24.630 8.940 8.490 8.40	# 63-71778 EFF. W 17.5 "EITE - 11" (BIEN 2017) MEAN AI FS MEAN EEEV ELEV DEC. 5.476 23.970 5.476 5.750 5.750 1/8.220 CET CUT NL 4.490 8.940 8



2548/44 #03-77478 SAMTE 5.F.W.M.D. CREW "SITE-H" 3/18/05 (ELEV. CONT.) BM ELEV MEAN STA 25 18.210 17.750 47.470 1 SHAKE 17.750 SET BO D SPIKE 17,290 NGS # ACS343 FOOT BRASS D. 5.705 V STAMPED I 95 89 A Z4 5.445 42.025 42.000 IN MEDIAN AT NORTH END OF 5.445 BM 5.185 ERIOGE. 4.6' N.OF THE N. ERR = 0.025 CONC. GUARDRAIL BETWEEN N. AND S. LANES. NAVE ER.



2543/46 がとうーサナリタでき A. REDERO S.F.W. M. L. T. LOPEZ A. _ 3=== 1 SITE - I " ESTABLISH ELEV ON NELL= N/1081 MENTALELEV ELEV DESC MEAN HI 574 ES NGS#AJ8248 FND DISC 8. 570 25.130 STAMPED NSZZ ZOOL CERP 7.140 32.270 % EM 7.140 48.6 N. OF & OF KANNER RD 5.760 37.0 S. OF POWER POLE W/GUY WIRE ON W. SIDE OF GATE NAVD 88 6.590 5.035 5.035 TZ7.235 1 TP#1 SET CUT NL 3.450 6.150 SHAKE 5.255 5.255 32.490 V SET COT NL 4.360 5.07. 4.665 7.665 1 27.825 V WELL # 1/1/08/ 11081 SHARL 4.250 32.075 V SET CUT INL 5.730 4.840 177.235 4.840 SET CITT NIL TP# 2 3.750

2548/47 #03-77478 SAME S.F.W.M.D CREVL リタノアニーエッグ 8/19/05 (BUEN CONT) BM MENN ALL FE MEAN LEVEY S.TA. 35 ELEY ZESC. 5.250 32.485 SHAKE SILES SET CUT NL 3.500 7.060 5.295 - 27.190 1 TP# 3 SET COT NIL 3.530 7.370 5.300 32.490 V SHAKE 5.300 SET CUT NL 3.230 7.760 5,560 26.930 70#4 . 5.540 SET COT NL 3.360 8,200 6.095 33.025 V SHAKE 6.095 SET COT NL 3.990 7.030 4 325 \$ 28,200 TP# 5 4.875 SET CUT NL 2.620

#03-77478 SAME S.F. W.M.D. CREVY "SITE-I" 8/19/05 (ELEV. CONT)

STA B5 6.670 4.800 31.715 SHAKE

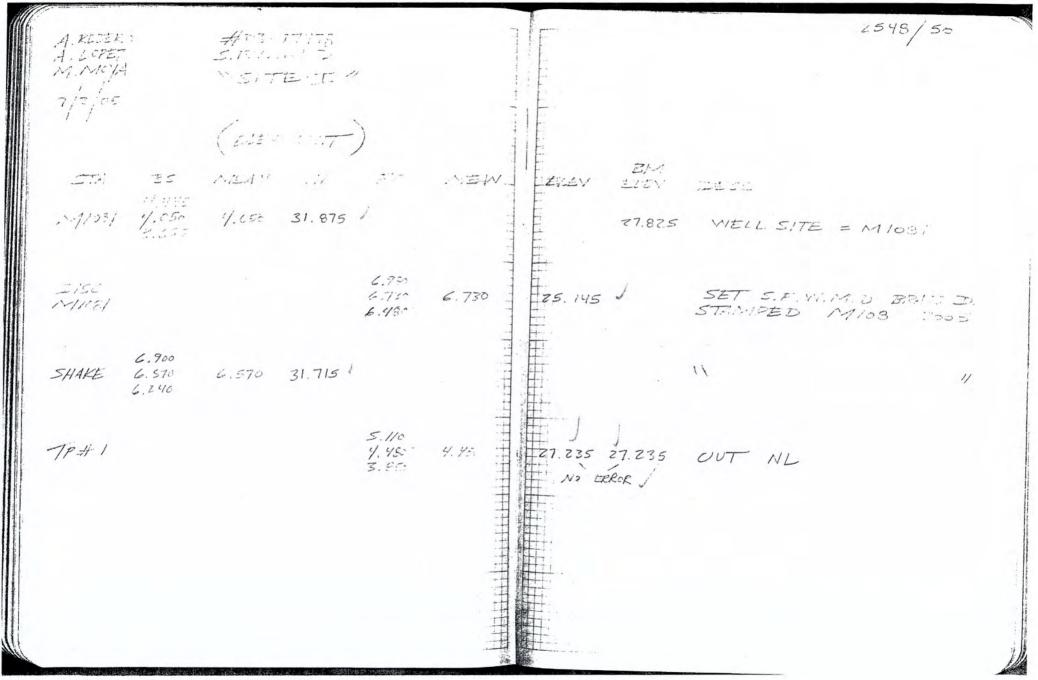
4.800

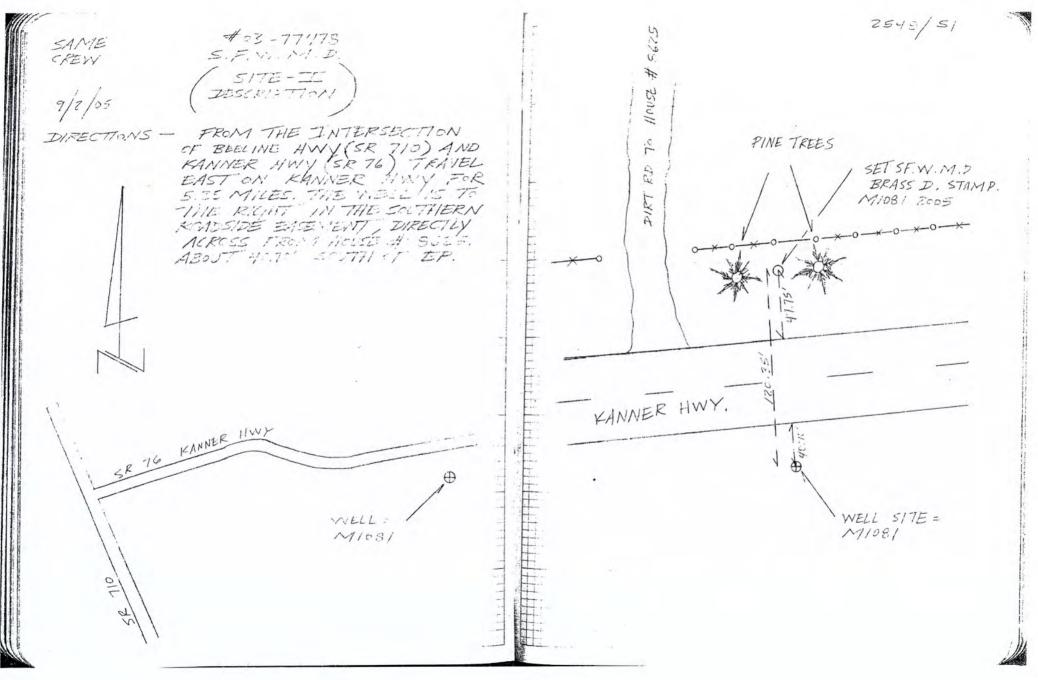
8.050 6.810 6.810 5,570

ELEV. ELEV.

SET CUT NL

NGS # AJ8247 FND FLANGE V. ENCASED ROD STAMPING 24.905 24.870 M 522 ZOOI CERP O.Z MILES WEST OF ENTRANCE ERR = 0.035/ TO PAYSON PARK, 120' S. SF E OF ROAD. Y.O' NORTH OF WOODEN FENCE. NAVE BB





2548 / 52 SAME CREN 5. F. W. M. = * ニノブロ・エル £57A34.54 ELTY. ON VIEWL 111045 115411 MEAN HI 511 Z5 255 NOS # AJBBSY FND DUSK F 547 DE ENCY EST WILLE THE ER THE AND DE TO 1.755 5.010 10.740 1 TAN! 5.010 3.270 17.5 5 5 6 ST (1) 5.540 4.090 1.26.650 V TP#1 11.270 27 CHT NL 2.540 4.340 30,971 V SHACE 4.340 SET CUT NE 2.760 5, 200 4, 340 3, 140 4.5: 26.630 V -117:2 SET CIT NL SHAPE 4.135 4.135 30.765 SET CUT NL 3.760 24.450 4 6:715 5. 175 TOP OF DIFE WELL MICHS M1045

	54115		A 22 .	-7:-2				2545 / 53
The ship was the same of the s	7.2755		11 51.12					
							BM.	
	TA	ES	MERIL	21	15	MEGN	LZZZV ZZZV	2255
e de la composiçõe de l	SHAKE	6.87:	6.470	30.920	4			TOP OF PIPE WELL = 1/1045
	TP#13				1.365 1.285 2.705	4. 23.5	Z6.635 V	SET CUT NO
en de la companya de	SHAKE	6.000 11.535 3.050	4.535	3/.170	* ,			SET JUT NL
ing and man of the control of the co	TP#4				I. 760 4. 530 I. 100	1.530	26.645	SET CUT NL
	SHAKE	5,792 4,42 2,850	4.420	3/.060	à.			TET CLT IVE
AN Exchange ways of the statement of the	7.P #5				5,720 4,785 2,85	% 285 H	26,775	SET CUT ML
					-			

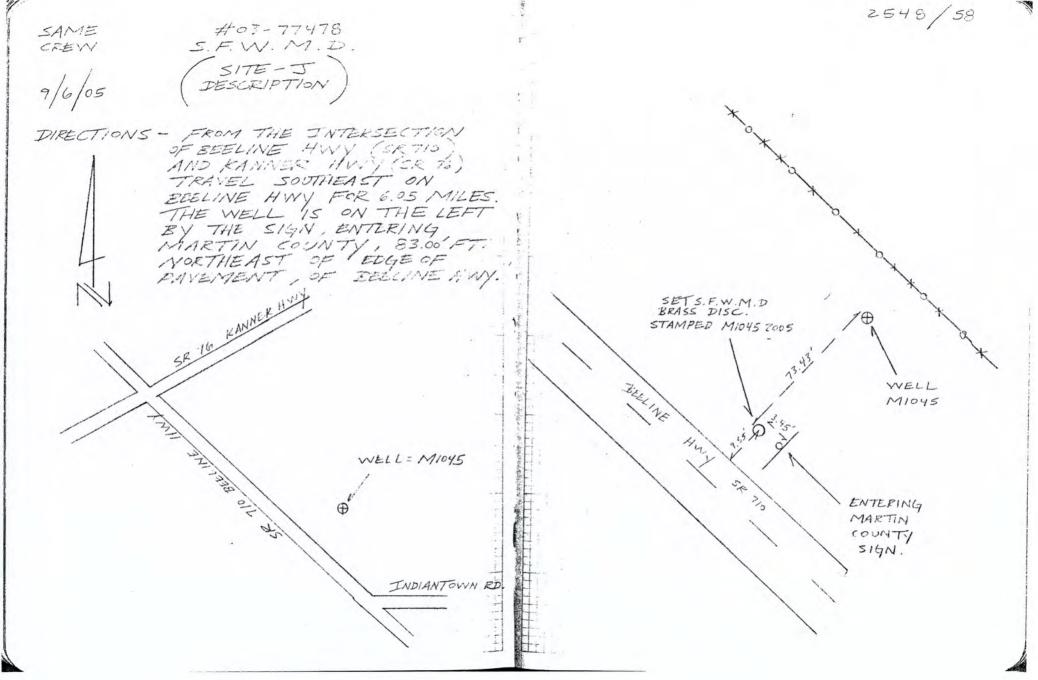
MILL

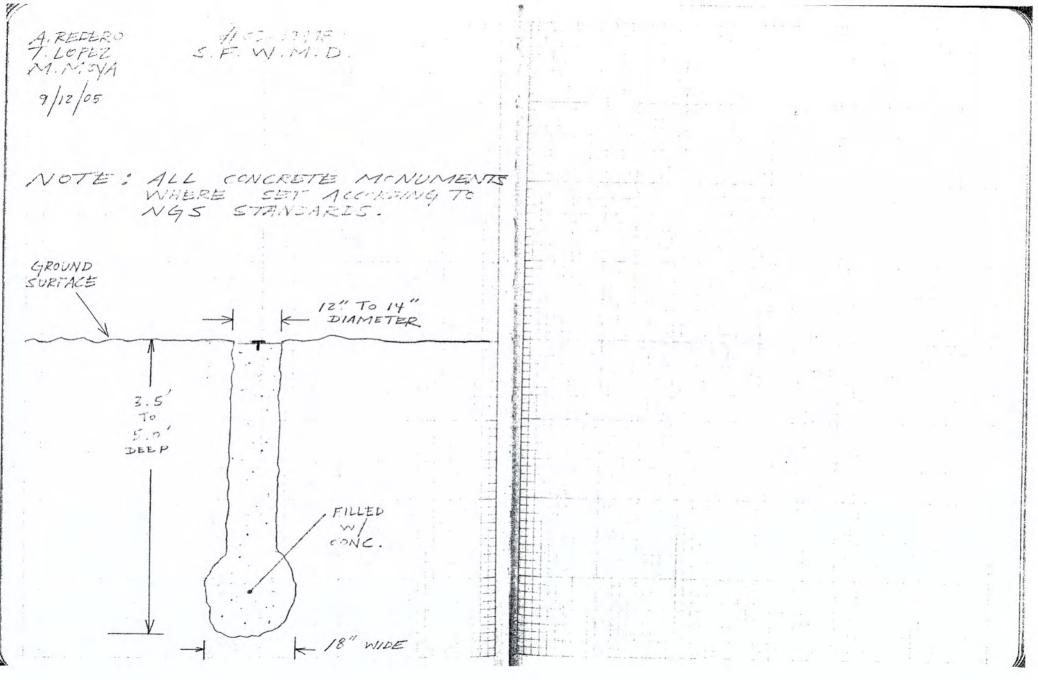
SAME	403-77			2548/54
erevi	5. FW.17.5.			
7-7-	(ELEV. CONT)			
STA BS	MEAN HI FS	MEAN	ELEV ELEV DESC	
SHAKE 4.440 2.930	4.440 31.215		SET CUT NL	
	5. 860			
TP# 6	4.34 2.30	0 4.340	26.875 V SET COT NL	
6.130				-
SHAKE 4,400 2.670	4.400 31.275 J		SET CUT NA	
TP#7	6.070 4.505 2.940	1.505	26.770 SET CUT NZ	
SHAKE 4.370 2.470	4.370 31.140		SET OUT NL	A Common American
TP#8	£.320 4.465 2.610	1.465	26 675 V SET CUT NL	

#03-77-473 5.1:5 5. F W. N. S CFZ"." "ニッモー丁リ 9/2/05 (CLEV. COTT) MEAN ALL FE MEAN ELEV ELEV STA 4.450 31.125 4.45 SHAKE SET CUT NL 6.200 4.470 1 26.655 V SET CUT NL TP#9 2.740 SHAKE 4.340 4.340 30.995 1 SET CUT NI 6.150 2.970 1.560 26.435 TP# 10 SET CUT NL SHAKE 4.375 4.395. 30.830 SET CUT NL 5.660 4.215 2.770 4.215 2.770 TP#11 SET CUT NL

7548, 1. SA1.72 #05-77478 5. F. W.M. CFE 17 "SITE - J (ELEV. COST) MEAN HI FS MEAN ELEV BLEV DESC STA 25 6.570 SHAKE 4.415 4.415 31.030 SET CUT NL 5,720 TF#12 76.530V 4.500 4.500 SET CUT NIL 3.270 5.736 SHAKE 1.210 4.210 30.740 \$ SET CUT MIL. 7.690 NGS# AJ 8386 FND FLANGE ENCASED FOR STAMP, E SYT THE OLDER TO SE THE FROM SE THE STATE OF FROM SE THE SETH SE THE SE THE SE THE SE THE SE THE SE THE SETH SE THE SE THE SE THE SE THE SETH SE THE SETH SE THE SETH SE THE SE THE SETH 5.880 4.770 NAIL BB.

2543 /57 #03-77478 A. TEDER T. LOPEZ S.F.W.M.D M. MOVA "SITE - J" (ELEV. CONT.) MEAN ELEV ELEV DESC STA 35 MEAN HI F5 6.550 6.140 30.590 V 6.140 24.450 TOP OF PIPE = MI1345 5.730 5.000 5.000 DISC 25,305 / 5. 285 SET S.F.W.M.D BRASS 2. M1045 5 165 STAMPED MIGYE POOF 5.910 5.785 31.676 V SHAKE 5. 735 11 5,600 4. 670 1 26.630 26.630 -TE-H SET CUT NL EM 4.460 4.250 No ECTUR







SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 10/10/05

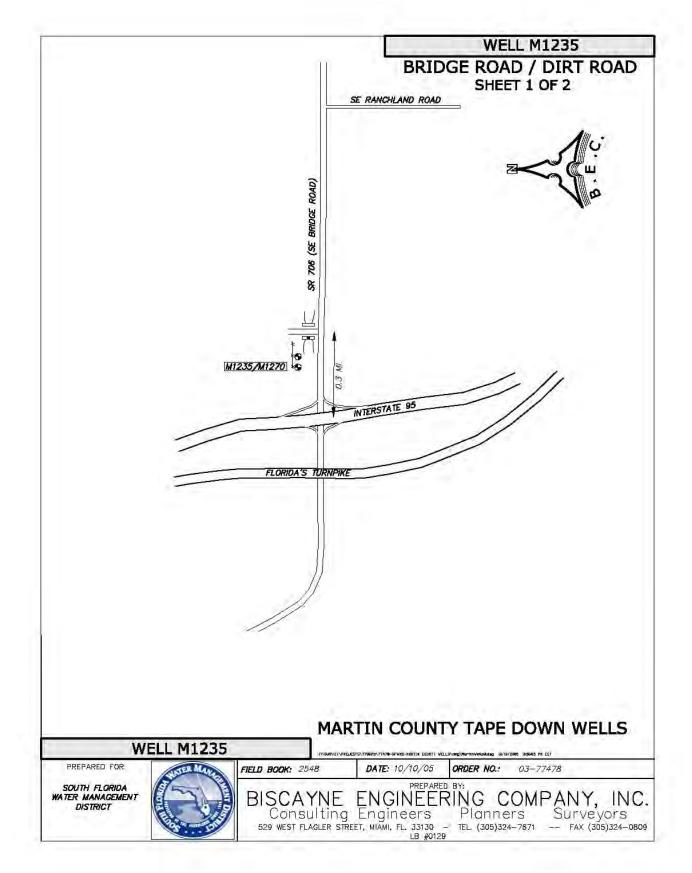
COUNTY MARTIN	PROJECT BR	IDGE ROAD	DESIGNA	TION	M1235 2005				
SECTION <u>27</u>	TOWNSHIP	<u>39S</u>	RANGE	<u>41E</u>					
GEOGRAPHIC INDEX OF QUAD Florida									
Established by Biscayne Engineeri Inc.	ng Company,	NAME OF QUADRANGLE <u>GOMEZ</u>							
SURVEYOR Mike J. Bartholomew DATE 09 / 26 / 2005		FIELD BOOK 25	548 PA	GE <u>40</u>					
HORIZONTAL DATUM: 1927	983 Other_	(circle	e one) Z	ONE <u>0</u>	901 (EAST)				
VERTICAL DATUM: MSL 1929	1988 Other	(circle	e one)						
CONTROL ACCURACY: HORIZONTAL 1 2 3 SUB-METER (circle one) VERTICAL 1 2 3									
STATE PLANE COORDINATES M1235 (U.S. Survey feet)	X= 907041.51	Y= 986034.9		DISC EL.= 16.14' (NAVD-88)					
LATITUDE M1235 27°02'39.409"	N	LONGITUI	DE 080º13	3'45.328	"W				
	DESC	CRIPTION							
Benchmark is situated North of S.E. Bridge Road (S.R. 708), and East of I-95, in Section 27, Township 39 South, Range 41 East, Martin County, Florida TO REACH the benchmark from the intersection of Interstate 95 and S.E. Bridge Road (S.R. 708), travel East on S.E. Bridge Road for 0.3 miles (more or less) to an entrance (drive) on the left (North). Turn left and travel North to a standard SFWMD disc stamped "M1235 2005" set in the concrete headwall for a ditch on the left (West) side of the drive.									
Origin of NAVD88 elevation for BM "M1235" is a closed bench level circuit through NGS benchmarks AC5345 (I									
95 89 A 24 REF MK) and AC5343 (I 95 89 A 24)									

SKETCH: SEE PAGE 2 and 3



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

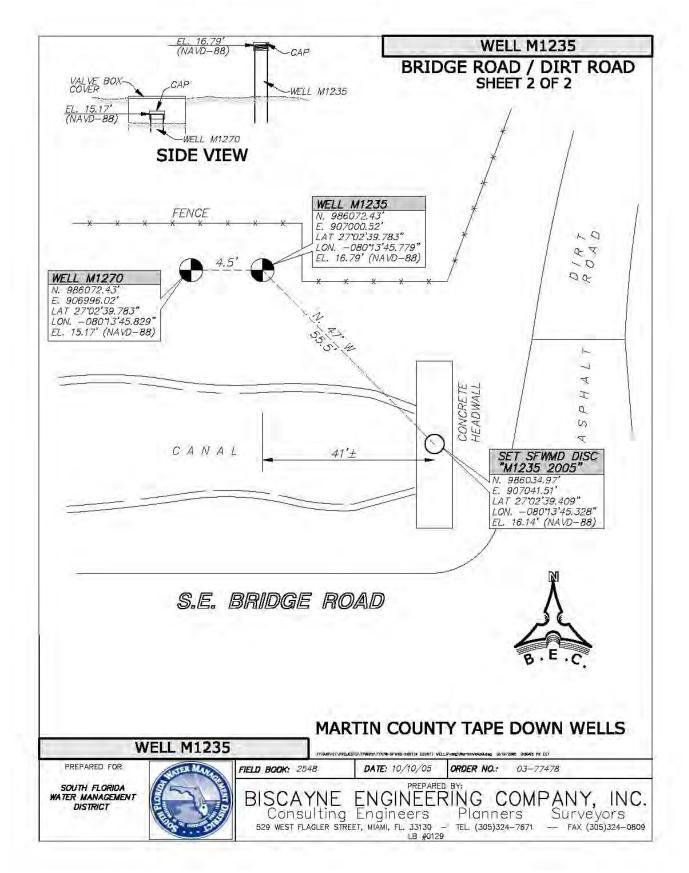
Rev. 10/10/05





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 10/10/05



```
See file dsdata.txt for more information about the datasheet.
DATABASE = Sybase , PROGRAM = datasheet, VERSION = 7.27
        National Geodetic Survey, Retrieval Date = SEPTEMBER 20, 2005
AC5345 DESIGNATION - 195 89 A24 RM 2
                    - AC5345
AC5345 PID
AC5345 STATE/COUNTY- FL/MARTIN
AC5345 USGS QUAD
                  - GOMEZ (1983)
AC5345
AC5345
                               *CURRENT SURVEY CONTROL
AC5345
AC5345* NAD 83(1986)-
                       27 02 39.
                                           080 14 04.
                                    (N)
                                                          (W)
                                                                 SCALED
AC5345* NAVD 88 -
                            12.627 (meters) 41.43
                                                        (feet)
                                                                 ADJUSTED
AC5345
AC5345 GEOID HEIGHT-
                              -27.21 (meters)
                                                                 GEOID03
AC5345 DYNAMIC HT
                               12.608 (meters)
                                                   41.36
                                                         (feet)
                                                                 COMP
AC5345 MODELED GRAV-
                          979,101.7
                                     (mgal)
                                                                 NAVD 88
AC5345
AC5345 VERT ORDER - SECOND
                                CLASS II
AC5345
AC5345. The horizontal coordinates were scaled from a topographic map and have
AC5345.an estimated accuracy of +/- 6 seconds.
AC5345. The orthometric height was determined by differential leveling
AC5345.and adjusted by the National Geodetic Survey in February 1997.
AC5345. The geoid height was determined by GEOID03.
AC5345. The dynamic height is computed by dividing the NAVD 88
AC5345.geopotential number by the normal gravity value computed on the
AC5345.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AC5345.degrees latitude (q = 980.6199 \text{ gals.}).
AC5345
AC5345. The modeled gravity was interpolated from observed gravity values.
AC5345
AC5345;
                                                Units Estimated Accuracy
                           North
                                        East
                        300,530.
                                                   MT (+/- 180 meters Scaled)
AC5345; SPC FL E
                                     275,950.
AC5345
AC5345
                               SUPERSEDED SURVEY CONTROL
AC5345
AC5345.No superseded survey control is available for this station.
AC5345
AC5345_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK759915(NAD 83)
AC5345_MARKER: DD = SURVEY DISK
AC5345_SETTING: 30 = SET IN A LIGHT STRUCTURE
AC5345 SP SET: GUTTER
AC5345 STAMPING: I 95 89 A 24 REF MK 2
AC5345 MARK LOGO: FLDT
AC5345 MAGNETIC: O = OTHER; SEE DESCRIPTION
AC5345_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
AC5345
AC5345 HISTORY
                    - Date
                               Condition
                                               Report By
AC5345 HISTORY
                    - 1989
                              MONUMENTED
                                               FLDT
AC5345
```

AC5345

AC5345

AC5345

AC5345

AC5345'DESCRIBED BY FLORIDA DEPARTMENT OF TRANSPORTATION 1989 (CBM)

AC5345'THE MARK IS LOCATED AT THE INTERSTATE ROUTE 95 AND STATE ROAD 708

AC5345'INTERCHANGE, ABOUT 6 MILES (9.7 KM) WEST OF JUPITER ISLAND, IN THE

AC5345'MEDIAN AT THE NORTH END OF THE BRIDGES, IN THE CONCRETE GUTTER, 9.5

AC5345'FEET (2.9 M) NORTH OF THE NORTHWEST END OF THE SOUTHBOUND BRIDGE, 9.5

AC5345'FEET (2.9 M) WEST OF THE WESTERNMOST WHITE ROAD STRIPE OF THE

AC5345'SOUTHBOUND LANES AND 1.7 FEET (0.5 M) EAST OF THE METAL GUARDRAIL.

*** retrieval complete. Elapsed Time = 00:00:01

```
See file dsdata.txt for more information about the datasheet.
DATABASE = Sybase , PROGRAM = datasheet, VERSION = 7.27
        National Geodetic Survey, Retrieval Date = SEPTEMBER 20, 2005
AC5343 DESIGNATION - 195 89 A24
                    - AC5343
AC5343 PID
AC5343 STATE/COUNTY- FL/MARTIN
AC5343 USGS QUAD
                   - GOMEZ (1983)
AC5343
AC5343
                               *CURRENT SURVEY CONTROL
AC5343
AC5343* NAD 83(1986)-
                       27 02 39.
                                            080 14 04.
                                     (N)
                                                          (W)
                                                                  SCALED
AC5343* NAVD 88
                             12.801
                                                  42.00
                                                          (feet)
                                                                  ADJUSTED
                                    (meters)
AC5343
AC5343 GEOID HEIGHT-
                              -27.21 (meters)
                                                                  GEOID03
AC5343 DYNAMIC HT
                               12.781 (meters)
                                                   41.93 (feet)
                                                                  COMP
AC5343 MODELED GRAV-
                          979,101.7
                                      (mgal)
                                                                  NAVD 88
AC5343
AC5343 VERT ORDER - SECOND
                                 CLASS II
AC5343
AC5343. The horizontal coordinates were scaled from a topographic map and have
AC5343.an estimated accuracy of +/- 6 seconds.
AC5343. The orthometric height was determined by differential leveling
AC5343.and adjusted by the National Geodetic Survey in February 1997.
AC5343. The geoid height was determined by GEOID03.
AC5343. The dynamic height is computed by dividing the NAVD 88
AC5343.geopotential number by the normal gravity value computed on the
AC5343. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AC5343.degrees latitude (q = 980.6199 \text{ gals.}).
AC5343
AC5343. The modeled gravity was interpolated from observed gravity values.
AC5343
AC5343;
                                                Units Estimated Accuracy
                           North
                                         East
                        300,530.
                                                   MT (+/- 180 meters Scaled)
AC5343; SPC FL E
                                      275,950.
AC5343
AC5343
                                SUPERSEDED SURVEY CONTROL
AC5343
AC5343.No superseded survey control is available for this station.
AC5343
AC5343_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK759915(NAD 83)
AC5343_MARKER: DD = SURVEY DISK
AC5343_SETTING: 31 = SET IN A PAVEMENT SUCH AS STREET, SIDEWALK, CURB, ETC.
AC5343 SP SET: DROP INLET
AC5343 STAMPING: I 95 89 A 24
AC5343 MARK LOGO: FLDT
AC5343 MAGNETIC: O = OTHER; SEE DESCRIPTION
AC5343_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
AC5343
AC5343 HISTORY
                    - Date
                               Condition
                                               Report By
AC5343 HISTORY
                    - 1989
                               MONUMENTED
                                               FLDT
AC5343
```

AC5343

AC5343

AC5343

AC5343'DESCRIBED BY FLORIDA DEPARTMENT OF TRANSPORTATION 1989 (CBM)

AC5343'THE MARK IS LOCATED AT THE INTERSTATE ROUTE 95 AND STATE ROAD 708

AC5343'INTERCHANGE, ABOUT 6 MILES (9.7 KM) WEST OF JUPITER ISLAND, IN THE

AC5343'MEDIAN AT THE NORTH END OF THE BRIDGES. IT IS SET IN THE TOP OF A

AC5343'ROUND CONCRETE POST 7.0 FEET (2.1 M) NORTHEAST OF THE NORTHEAST END OF

AC5343'THE SOUTHBOUND BRIDGE, 4.7 FEET (1.4 M) EAST OF A METAL WITNESS SIGN

AC5343'ATTACHED TO A GUARDRAIL POST AND 4.6 FEET (1.4 M) NORTH OF THE NORTH

AC5343'CONCRETE GUARDWALL BETWEEN THE NORTH AND SOUTHBOUND BRIDGES.

*** retrieval complete. Elapsed Time = 00:00:01

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

Line/Part: L26232 SSN+: mark floated, SSN*: mark constrained, SSN#: mark floated & constrained

Mark ID SSN PID Designation Geopotential Elevation Codes 1649 9028 AJ5611 P 516 5.1680 5.2735 1653 9032 AC5348 BR 26 A 6.5532 6.6869

```
See file dsdata.txt for more information about the datasheet.
DATABASE = Sybase , PROGRAM = datasheet, VERSION = 7.27
        National Geodetic Survey, Retrieval Date = SEPTEMBER 20, 2005
AC5348 DESIGNATION - BR 26 A
                  - AC5348
AC5348 PID
AC5348 STATE/COUNTY- FL/MARTIN
AC5348 USGS QUAD
                  - INDIAN TOWN SE (1983)
AC5348
AC5348
                               *CURRENT SURVEY CONTROL
AC5348
                       27 02 51.50041(N)
AC5348* NAD 83(1999)-
                                           080 15 10.01890(W)
                                                                 ADJUSTED
AC5348* NAVD 88
                            6.230 (meters)
                                                  20.44
                                                        (feet)
                                                                 ADJUSTED
AC5348
AC5348 X
                          962,389.928 (meters)
                                                                 COMP
AC5348 Y
                      -5,602,409.896 (meters)
                                                                 COMP
AC5348 Z
                        2,882,908.318 (meters)
                                                                 COMP
AC5348 LAPLACE CORR-
                              -2.80 (seconds)
                                                                 DEFLEC99
AC5348 ELLIP HEIGHT-
                             -20.93 (meters)
                                                       (12/12/02) GPS OBS
AC5348 GEOID HEIGHT-
                             -27.17 (meters)
                                                                 GEOID03
AC5348 DYNAMIC HT -
                                                   20.41 (feet)
                               6.221 (meters)
                                                                 COMP
AC5348 MODELED GRAV-
                          979,102.0
                                     (mgal)
                                                                 NAVD 88
AC5348
AC5348 HORZ ORDER -
                       FIRST
AC5348 VERT ORDER
                       FIRST
                                CLASS II
AC5348 ELLP ORDER
                       FOURTH
                                CLASS I
AC5348
AC5348. The horizontal coordinates were established by GPS observations
AC5348.and adjusted by the National Geodetic Survey in December 2002.
AC5348
AC5348. The orthometric height was determined by differential leveling
AC5348.and adjusted by the National Geodetic Survey in February 1997.
AC5348
AC5348. The X, Y, and Z were computed from the position and the ellipsoidal ht.
AC5348. The Laplace correction was computed from DEFLEC99 derived deflections.
AC5348
AC5348. The ellipsoidal height was determined by GPS observations
AC5348.and is referenced to NAD 83.
AC5348
AC5348. The geoid height was determined by GEOID03.
AC5348
AC5348. The dynamic height is computed by dividing the NAVD 88
AC5348.geopotential number by the normal gravity value computed on the
AC5348.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AC5348.degrees latitude (g = 980.6199 gals.).
AC5348
AC5348. The modeled gravity was interpolated from observed gravity values.
AC5348
AC5348;
                           North
                                        East
                                                 Units Scale Factor Converg.
AC5348; SPC FL E
                        300,902.146
                                     274,130.541
                                                   MT 1.00000899
                                                                   +0 20 23.3
AC5348;UTM 17
                    - 2,991,931.461
                                     574,105.248
                                                   MT 0.99966779
                                                                   +0 20 23.3
AC5348
AC5348!
                                                       Combined Factor
                    - Elev Factor x Scale Factor =
```

```
AC5348!SPC FL E - 1.00000329 x 1.00000899 = 1.00001228
AC5348!UTM 17 - 1.00000329 x 0.99966779 = 0.99967108
AC5348
                                  SUPERSEDED SURVEY CONTROL
AC5348
AC5348
AC5348 NAVD 88 (12/12/02) 6.23 (m)
                                                      20.4 (f) LEVELING
                                                                                3
AC5348
AC5348. Superseded values are not recommended for survey control.
AC5348.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AC5348. See file dsdata.txt to determine how the superseded data were derived.
AC5348
AC5348 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK7410591931(NAD 83)
AC5348_MARKER: DD = SURVEY DISK
AC5348 SETTING: 37 = SET IN A MASSIVE RETAINING WALL
AC5348 SP SET: BRIDGE WINGWALL
AC5348 STAMPING: BM BR 26 A 1984
AC5348 MARK LOGO: FL-085
AC5348 MAGNETIC: N = NO MAGNETIC MATERIAL
AC5348_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AC5348_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AC5348+SATELLITE: SATELLITE OBSERVATIONS - May 13, 2002
AC5348
AC5348 HISTORY - Date Condition
AC5348 HISTORY - 1984 MONUMENTED
AC5348 HISTORY - 19891231 GOOD
AC5348 HISTORY - 20010718 GOOD
AC5348 HISTORY - 20020513 GOOD
                                                    Report By
                                                   FL-085
                                                    FLDT
                                                    GCYI
                                                    MAPTEC
AC5348
                                  STATION DESCRIPTION
AC5348
AC5348
AC5348'DESCRIBED BY FLORIDA DEPARTMENT OF TRANSPORTATION 1989 (CBM)
AC5348'TO REACH THE MARK FROM THE INTERCHANGE OF INTERSTATE ROUTE 95 AND SR
AC5348'708, ABOUT 6 MILES (9.7 KM) WEST OF JUPITER ISLAND, GO WESTERLY ON
AC5348'STATE ROAD 708 FOR 1.15 MILES (1.85 KM) TO BRIDGE NO H-15 OVER A CANAL
AC5348'AND THE MARK. THE MARK IS A MARTIN COUNTY BRASS DISK, SET IN A DRILL
AC5348'HOLE IN THE TOP OF THE NORTHEAST CONCRETE WINGWALL, 17.0 FEET (5.2 M)
AC5348'EAST OF THE CENTER OF THE ROAD AND 2.5 FEET (0.8 M) NORTH OF THE NORTH
AC5348'END OF THE METAL GUARDRAIL.
AC5348
AC5348
                                  STATION RECOVERY (2001)
AC5348
AC5348'RECOVERY NOTE BY G.C.Y., INCORPORATED 2001 (PA)
AC5348'RECOVERED AS DESCRIBED.
AC5348'
AC5348
                                  STATION RECOVERY (2002)
AC5348
AC5348
AC5348'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CDP)
AC5348'STATION RECOVERY (2002)
AC5348'RECOVERY NOTE BY MAPTECH, INCORPORATED 2002 (CDP)
AC5348'RECOVERED AS DESCRIBED.
AC5348'
AC5348'
*** retrieval complete.
Elapsed Time = 00:00:00
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From the "ngvd29.txt" file provided by NGS for the CERP Geodetic Vertical Control Project.

Line/Part: L26232 SSN+: mark floated, SSN*: mark constrained, SSN#: mark floated & constrained

 Mark ID
 SSN
 PID
 Designation
 Geopotential
 Elevation
 Codes

 1649
 9028
 AJ5611
 P 516
 5.1680
 5.2735

 1653
 9032
 AC5348
 BR 26 A
 6.5532
 6.6869

```
See file dsdata.txt for more information about the datasheet.
DATABASE = Sybase , PROGRAM = datasheet, VERSION = 7.27
        National Geodetic Survey, Retrieval Date = SEPTEMBER 20, 2005
AJ5611 DESIGNATION - P 516
AJ5611 PID
                 - AJ5611
AJ5611 STATE/COUNTY- FL/MARTIN
AJ5611 USGS QUAD - GOMEZ (1983)
AJ5611
AJ5611
                              *CURRENT SURVEY CONTROL
AJ5611
                       27 02 38.54265(N)
AJ5611* NAD 83(1999)-
                                           080 12 22.95954(W)
                                                                 ADJUSTED
AJ5611* NAVD 88
                             4.817 (meters)
                                               15.80 (feet)
                                                                 ADJUSTED
AJ5611
AJ5611 X
                          966,957.766 (meters)
                                                                 COMP
AJ5611 Y
                      -5,601,805.945 (meters)
                                                                 COMP
AJ5611 Z
                        2,882,552.407 (meters)
                                                                 COMP
AJ5611 LAPLACE CORR-
                              -3.30 (seconds)
                                                                 DEFLEC99
AJ5611 ELLIP HEIGHT-
                             -22.47 (meters)
                                                      (12/12/02) GPS OBS
AJ5611 GEOID HEIGHT-
                             -27.30 (meters)
                                                                 GEOID03
AJ5611 DYNAMIC HT -
                               4.809 (meters)
                                                   15.78 (feet)
                                                                 COMP
AJ5611 MODELED GRAV-
                        979,101.1
                                     (mgal)
                                                                 NAVD 88
AJ5611
AJ5611 HORZ ORDER -
                       FIRST
AJ5611 VERT ORDER
                       FIRST
                                CLASS II
AJ5611 ELLP ORDER
                       FOURTH
                                CLASS I
AJ5611. The horizontal coordinates were established by GPS observations
AJ5611.and adjusted by the National Geodetic Survey in December 2002.
AJ5611
AJ5611. The orthometric height was determined by differential leveling
AJ5611.and adjusted by the National Geodetic Survey in November 2001.
AJ5611
AJ5611. The X, Y, and Z were computed from the position and the ellipsoidal ht.
AJ5611. The Laplace correction was computed from DEFLEC99 derived deflections.
AJ5611
AJ5611. The ellipsoidal height was determined by GPS observations
AJ5611.and is referenced to NAD 83.
AJ5611. The geoid height was determined by GEOID03.
AJ5611
AJ5611. The dynamic height is computed by dividing the NAVD 88
AJ5611.geopotential number by the normal gravity value computed on the
AJ5611. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AJ5611.degrees latitude (g = 980.6199 \text{ gals.}).
AJ5611
AJ5611. The modeled gravity was interpolated from observed gravity values.
AJ5611
AJ5611;
                          North
                                        East
                                                 Units Scale Factor Converg.
AJ5611; SPC FL E
                        300,531.473
                                     278,737.046
                                                  MT 1.00001768
                                                                   +0 21 39.1
AJ5611;UTM 17
                    - 2,991,560.914
                                     578,710.181
                                                  MT 0.99967648
                                                                   +0 21 39.1
AJ5611
AJ5611!
                                                       Combined Factor
                    - Elev Factor x Scale Factor =
```

```
AJ5611!SPC FL E - 1.00000353 \times 1.00001768 = 1.00002121 AJ5611!UTM 17 - 1.00000353 \times 0.99967648 = 0.99968001
AJ5611
AJ5611
                                 SUPERSEDED SURVEY CONTROL
AJ5611
AJ5611 NAVD 88 (12/12/02) 4.82 (m)
                                                     15.8 (f) LEVELING
                                                                              3
AJ5611
AJ5611. Superseded values are not recommended for survey control.
AJ5611.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AJ5611.See file dsdata.txt to determine how the superseded data were derived.
AJ5611
AJ5611_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK7871091561(NAD 83)
AJ5611_MARKER: F = FLANGE-ENCASED ROD
AJ5611 SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
AJ5611 STAMPING: P 516 2001
AJ5611 MARK LOGO: FL-085
AJ5611 PROJECTION: FLUSH
AJ5611 MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
AJ5611_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AJ5611_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AJ5611+SATELLITE: SATELLITE OBSERVATIONS - May 13, 2002
AJ5611_ROD/PIPE-DEPTH: 21.0 meters
AJ5611
AJ5611 HISTORY - Date Condition
AJ5611 HISTORY - 20010513 MONUMENTED
AJ5611 HISTORY - 20020513 GOOD
                                                  Report By
                                                  GCYI
                                                  MAPTEC
AJ5611
                                 STATION DESCRIPTION
AJ5611
AJ5611
AJ5611'DESCRIBED BY G.C.Y., INCORPORATED 2001 (KFK)
AJ5611'THE MARK IS LOCATED 7.4 KM (4.6 MI) SOUTHWEST OF HOBE SOUND, 16.7 KM
AJ5611'(J10.4 MI)
AJ5611'NORTHWEST OF JUPITER AND 17.5 KM (10.9 MI) SOUTHEAST OF STUART IN
AJ5611'SECTION
AJ5611'26, TOWNSHIP 39 SOUTH, RANGE 41 EAST NEAR THE NORTH RIGHT-OF-WAY OF
AJ5611'C.R.
AJ5611'708 (BRIDGE ROAD).
AJ5611'
AJ5611'MARTIN COUNTY RIGHT-OF-WAY.
AJ5611'
AJ5611'TO REACH THE MARK FROM THE INTERSECTION OF I-95 AND C.R. 708 (BRIDGE
AJ5611'ROAD)
AJ5611'GO EAST ON C.R. 708 2.7 KM (1.7 MI) TO THE MARK ON THE LEFT.
AJ5611'THE MARK IS 17 M (56 FT) NORTH OF THE CENTERLINE OF C.R. 708, 1.3 M (4
AJ5611'FT) EAST
AJ5611'OF A POWER LINE, 21 M (69 FT) SOUTH OF A METAL GATE AND O.8 M (2.7 FT)
AJ5611'WEST OF
AJ5611'THE WEST EDGE OF A CONCRETE DRIVE.
AJ5611' ACCESS IS THROUGH AN ALUMINUM ACCESS CAP.
AJ5611'NOTE - MAGNET PLACED IN PVC SLEEVE INSIDE ACCESS COVER.
AJ5611'
AJ5611'
AJ5611
AJ5611
                                 STATION RECOVERY (2002)
AJ5611
AJ5611'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CDP)
AJ5611'STATION RECOVERY (2002)
AJ5611'RECOVERY NOTE BY MAPTECH, INCORPORATED 2002 (CDP)
```

```
AJ5611'RECOVERED AS DESCRIBED.
AJ5611'
AJ5611'

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

MARTIN COUNTY- WELL M1270 <u>LEVEL RUN</u>

DATE	STA	BS	MEAN	HI	FS	MEAN	ELEV	BM ELEV.	NOTES
								NAVD-88	
08/18/05	NGS BM	4.86							
(FB 2548,	AC5345	4.32	4.32	45.75				41.43	
PG 40)	195 89 A24 RM 2	3.78							
					16.54				
	TP#1				16.04	16.04	29.72		
					15.53				
		3.01							
	SHAKE	2.85	2.85	32.57					
		2.69							
					14.63				
	TP#2				14.31	14.31	18.26		
					13.99				
		7.36							
	SHAKE	5.97	5.97	24.23					
		4.58							
					7.59				
	TP#3				5.73	5.73	18.50		
					3.87				
		7.07							
	SHAKE	5.48	<i>5.4</i> 8	23.97					
		3.88							
					7.36				
	TP#4				5.75	5.75	18.22		
					4.14				
		7.30							
	SHAKE	6.41	6.41	24.63					
		5.52							
	BM				8.94	0.10	40.11		SET SFWMD
	DISC				8.49	8.49	16.14		DISC STAMPED
	M 1235				8.04				M 1235 2005
		4.68							
	SHAKE	4.22	4.22	20.36					
		3.76							
					5.71				
	WELL				5.53	5.53	15.17		WELL
	M 1270				5.36				M 1270

MARTIN COUNTY- WELL M1270 <u>LEVEL RUN</u>

DATE	STA	BS	MEAN	HI	FS	MEAN	ELEV	BM ELEV.	NOTES
								NAVD-88	
		5.42							
	SHAKE	5.24	5.24	20.41					
		5.06							
					3.55				
	TP#5				3.03	3.03	17.38		
					2.51				
		7.91							
	SHAKE	7.39	7.39	24.77					
		6.87							
					7.38				
	TP#6				6.55	6.55	18.22		
					5.72				
		7.26							
	SHAKE	5.79	5.79	24.01					
		4.32							
					7.25				
	TP#7				5.51	5.51	18.50		
					3.77				
		6.92							
	SHAKE	5.48	5.48	23.98					
		4.04							
					7.51				
	TP#8				5.71	5.71	18.27		
					3.91				
	0114.42	13.03	10.75	04.04					
	SHAKE	12.75	12.75	31.01				ļ	
		12.46			4 4 4				
	TD "A				1.44	4.00	00.70		
	TP#9				1.29	1.29	29.72		
		40.04			1.14			ļļ	
	CHAKE	18.21	47.75	47.47					
	SHAKE	17.75	17.75	47.47					
(ED 0540	NOC DIA	17.29			F 74				EDD05
(FB 2548,					5.71	F 45	40.00	40.00	ERROR
PG 44)	AC5343				5.45	5.45	42.03	42.00	-0.025
08/15/05	195 89 A24				5.19				