

Identification\_Information:

Citation:

Citation\_Information:

Originator: Sherry Kopec(comp.)  
Originator: Pickett & Associates, Inc. (ed.)  
Publication\_Date: Unpublished material  
Publication\_Time: Unknown  
Title: S. F. W. M. D. Well CRS05  
Edition: 1  
Publication\_Information:  
Publication\_Place: Not published  
Publisher: None  
Online\_Linkage: skopec@pickett-inc.com

Description:

Abstract:

South Florida Water Management District  
Well CRS05

Purpose:

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

Supplemental\_Information:

Well 6' South of CRS05N has a key lock. The remaining wells on this site have combination locks.  
See point of contact for key or combinations.

Time\_Period\_of\_Content:

Time\_Period\_Information:

Single\_Date/Time:  
Calendar\_Date: 20030321  
Time\_of\_Day: 14340000

Currentness\_Reference: Date and time of field work.

Status:

Progress: Complete  
Maintenance\_and\_Update\_Frequency: Unknown

Spatial\_Domain:

Bounding\_Coordinates:

West\_Bounding\_Coordinate: -081° 15' 31.0"  
East\_Bounding\_Coordinate: -081° 15' 21.5"  
North\_Bounding\_Coordinate: +26° 38' 55.8"  
South\_Bounding\_Coordinate: +26° 38' 55.6"

Keywords:

Theme:

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

Place:

Place\_Keyword\_Thesaurus: None  
Place\_Keyword: S. F. W. M. D. Well CRS05  
Place\_Keyword: Sec. 17, Twp. 44 S., Rge. 31 E.  
Place\_Keyword: Hendry County, Florida  
Place\_Keyword\_Thesaurus: Geographic Names Information System  
Place\_Keyword: Florida  
Place\_Keyword: Hendry County  
Place\_Keyword: CRS05

Access\_Constraints: None

Use\_Constraints: None

Point\_of\_Contact:

Contact\_Information:

Contact\_Person\_Primary:

Contact\_Person: Elvie D. Ebanks  
Contact\_Organization: South Florida Water Management District

Contact\_Position: Professional Surveyor & Mapper

Contact\_Address:

Address\_Type: mailing and physical address  
Address: 8894 Belvedere Road  
City: West Palm Beach  
State\_or\_Province: Florida  
Postal\_Code: 33411  
Country: USA

Contact\_Voice\_Telephone: (561) 686-8800, Ext. 4717

Contact\_Facsimile\_Telephone: (561) 791-4093

Contact\_Electronic\_Mail\_Address: eebanks@sfwmd.gov

**Sherry Kopec**

**Pickett & Associates, Inc.**

**Purpose**

**Survey Date**

**Elvie Ebanks**

**SFWMD**

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

## Data\_Quality\_Information:

Attribute\_Accuracy:

Attribute\_Accuracy\_Report:

**Equipment Used**

This survey was prepared using GPS and conventional Leveling. The horizontal location of the wells and benchmark were determined using DGPS. The vertical control was performed using a Zeiss DINI 20 electronic digital level. Coordinates are based on the Florida State Plane Coordinate System, East Zone, NAD 83/99. Elevations are based on NAVD 88 and NGVD 29.

Logical\_Consistency\_Report:

Horizontal data was established using DGPS technology.

**Project Results**

Vertical data were established with differential leveling using control point R\_414(AD8261).

Completeness\_Report:

Horizontal location taken at approximate center of wells.

**CRS05N**Well **CRS05N**

Lat. +26° 38' 55.7"

Long. -081° 15' 30.7"

N 841598

E 571722

Existing reference mark is an arrow on the inside of the N side of a 2" PVC pipe with the elevation taken on top of the rim of the pipe with an NGVD 29 elevation of 35.23' for GW #1, 35.48' for GW #2, and 33.07' for HW Dated 10/20/99 with initials EE/AW.

New leveled elevations.

33.993' (NAVD 88)

35.283' (NGVD 29) based on superseded elevation on benchmark R\_414(AD8261)

35.215' (NGVD 29) based on site worksheets provided by SFWMD

Well (6' South of CRS05N)

Lat. +26° 38' 55.6"

Long. -081° 15' 30.7"

N 841591

E 571722

Existing reference mark is on the inside of the W side of a 2" PVC pipe.

New leveled elevations.

34.241' (NAVD 88)

35.531' (NGVD 29) based on superseded elevation on benchmark R\_414(AD8261)

35.463' (NGVD 29) based on site worksheets provided by SFWMD

**PSTAC D**

Well PSTAC\_D

Lat. +26° 38' 55.7"

Long. -081° 15' 31.0"

N 841599

E 571697

Existing reference mark is an "X" on the plywood with an NGVD 29 elevation of 33.07' Dated 10/20/99 with initials EE/AW. Pipe is 8" PVC.

New leveled elevations.

31.810' (NAVD 88)

33.100' (NGVD 29) based on superseded elevation on benchmark R\_414(AD8261)

33.032' (NGVD 29) based on site worksheets provided by SFWMD

Staff Gauge (next to PSTAC\_D)

Lat. +26° 38' 55.7"

Long. -081° 15' 31.0"

N 841598

E 571699

Existing reference mark is at water elevation. Staff gauge reads 23.82 Dated 3-6-03.

New leveled elevations.

22.521' (NAVD 88)

23.811' (NGVD 29) based on superseded elevation on benchmark R\_414(AD8261)

**CRS05F**

23.743' (NGVD 29) based on site worksheets provided by SFWMD

Well CRS05F

Lat. +26° 38' 55.8"

Long. -081° 15' 21.5"

N 841605

E 572562

Existing reference mark is an arrow on the inside of the E side of a 2" PVC pipe with the elevation taken on top of the rim of the pipe with an NGVD 29 elevation of 34.49' for GW #1 and 34.71' for GW #2.

33.243' (NAVD 88)

34.533' (NGVD 29) based on superseded elevation on benchmark R\_414(AD8261)

34.465' (NGVD 29) based on site worksheets provided by SFWMD

Well (6' West of CRS05F)

Lat. +26° 38' 55.8"

Long. -081° 15' 21.5"

N 841606

E 572556

Existing reference mark is an arrow on the inside of the N side of a 8" PVC pipe with the elevation taken on top of the rim of the pipe.

33.460' (NAVD 88)

34.750' (NGVD 29) based on superseded elevation on benchmark R\_414(AD8261)

34.682' (NGVD 29) based on site worksheets provided by SFWMD

Site Benchmark.

"SITE5" is an aluminum disc set in concrete slab stamped "FLA. WATER MANAGEMENT SURVEY MARKER BM SITE 5".

To reach from the intersection of U. S. 27 and S. R. 80, go West (11.65 Miles) to Lexington Parkway.

Go South on Lexington Parkway (2.25 Miles) to the end of pavement and a dirt road on right. Turn right on dirt road and go West for (0.30 Miles) to a gate. At gate turn left and go (6.2 Miles) to the Station on the right.

CRS05F is East 850' +/-

PSTAC Dis 40' +/- West

Benchmark "SITE5" is 3.5' +/- West of witness post

United States Department of the Interior Geological Survey

Quadrangle Map -- FELDA NE

Location of SITE5

Lat. +26° 38' 55.6"

Long. -081° 15' 30.8"

N 841590

E 571714

Elevations.

29.813' (NAVD 88)

31.103' (NGVD 29) based on superseded elevation on benchmark R\_414(AD8261)

31.035' (NGVD 29) based on site worksheets provided by SFWMD

Positional Accuracy:

Horizontal Positional Accuracy:

**Horizontal**

Horizontal Positional Accuracy Report:

The horizontal positions of the wells and benchmark SITE5 were established with DGPS technology in accordance with the Florida Minimum Technical Standards (Chapter 61G17-6).

Quantitative Horizontal Positional Accuracy Assessment:

Horizontal Positional Accuracy Value: 1 meter

Horizontal Positional Accuracy Explanation: The intended

positional accuracy for this survey is 1 meter.

Vertical Positional Accuracy:

**Level Line**

Vertical Positional Accuracy Report:

Levels were run between R\_414(AD8261) and B\_413(AD8260) the published elevations agreed within 0.018'. A level line was run from R\_414(AD8261) to the site benchmark and back. The closure exceeded the

WELL-CRS05.met

requirements for vertical control according to the Minimum Technical Standards for surveys (FAC CH 61G17-6).

The NGVD 29 elevation established for this survey was determined by using superseded elevation for benchmark R\_414.

Quantitative\_Vertical\_Positional\_Accuracy\_Assessment:

Vertical\_Positional\_Accuracy\_Value: 0.018 m

0.018m closure in 28,721m, max. allowed 0.064m (MTS)

Quantitative\_Vertical\_Positional\_Accuracy\_Assessment:

Vertical\_Positional\_Accuracy\_Value: 0.018 m

0.018m closure in 28,721m, max. allowed 0.064m (MTS)

Lineage:

Process\_Step:

Process\_Description:

The horizontal work was performed using a Trimble GPS 4700 unit with DGPS PRO Beacon for differential corrections. The level line was performed using a ZEISS DINI 20 electronic digital level.

Process\_Date: 20030318

Process\_Time: 18000000

Metadata\_Reference\_Information:

Metadata\_Date: 20030319

Metadata\_Contact:

Contact\_Information:

Contact\_Person\_Primary:

Contact\_Person: Greg A. Prather, PSM

Contact\_Organization: Pickett & Associates, Inc.

Contact\_Position: Director of Surveying

Contact\_Address:

Address\_Type: mailing and physical address

Address: 475 South First Avenue

City: Bartow

State\_or\_Province: Florida

Postal\_Code: 33830

Country: USA

Contact\_Voice\_Telephone: (863) 533-9095

Contact\_Facsimile\_Telephone: (863) 534-1464

Contact\_Electronic\_Mail\_Address: gprather@pickett-inc.com

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

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

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

Metadata\_Time\_Convention: Local time

# Well - CRS 05 N



Pickett & Associates, Inc.  
Date of Survey: February 20, 2003  
Looking: West

Well - CRS 05 N



Pickett & Associates, Inc.  
Date of Survey: February 20, 2003  
Looking: West

Well - (6' South of CRS 05 N)



Pickett & Associates, Inc.

Date of Survey: February 20, 2003

Looking: West

## Well - PSTAC D



Pickett & Associates, Inc.  
Date of Survey: February 20, 2003  
Looking: West



## Well - PSTAC D



Pickett & Associates, Inc.  
Date of Survey: February 20, 2003  
Looking: West

# Well - CRS 05 F



Pickett & Associates, Inc.  
Date of Survey: February 20, 2003  
Looking: North

# Well - CRS 05 F



Pickett & Associates, Inc.  
Date of Survey: February 20, 2003  
Looking: North

## Well - (6' West of CRS 05 F)



Pickett & Associates, Inc.

Date of Survey: February 20, 2003

Looking: North

# Well - BM Site 5



Pickett & Associates, Inc.  
Date of Survey: February 20, 2003

64

5/01-22 SFVAND 12188-1

K. ROYER  
F. SLOAN  
D. WILLIAMS  
3-4-03

## CK BMs For SITES 5, 6

TP	+	HI	-	EL	B.M.E.L.	DESC
1	9.12	22.860			13.74	R414
2	4.911	21.878	5.893	16.967		S.O.
3	5.741	24.349	3.271	18.608	"GPS156" TBM 212	SET PRNAIL + DISC @ W.E.O.P. @ INTER. OF WASHINGTON + SR80
4	5.033	22.496	6.886	17.462		S.O.
5	5.963	23.729	4.730	17.766		S.O.
6	5.225	23.422	5.532	18.197		S.O.
7	5.175	23.380	5.217	18.205		S.O.
8	4.691	22.845	5.226	18.153	"GPS157" TBM 213	SET 3/8 IR + CAP LB 364 REF ON S. SIDE OF S.R. 80 GOING EAST
9	7.123	25.149	4.819	18.026		S.O.
10	7.208	23.740	8.617	16.531		S.O.
11	4.668	25.029	3.379	20.361	"GPS158" TBM 214	SET 3/8 IR + CAP LB 364 REF ON S. SIDE OF SR80 GOING EAST
12			6.671	18.358	18.34	B413
13						

66

5/01-22

12188-1

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T. SUGAN  
D. WILLIAMS  
3-4-03

- LEVEL LOOP FOR SITES 5-6 "

T.P.	+	HT	-	EL
1	5.200	23.808		
2	4.934	23.717	5.025	18.783
3	4.915	23.701	4.932	18.785
4	4.962	23.630	5.032	18.668
5	5.155	23.856	4.929	18.701
6	5.072	23.685	5.243	18.613
7	5.167	23.919	4.933	18.752
8	5.082	23.909	5.093	18.826
9	5.251	24.383	4.777	19.132
10	5.263	24.863	4.782	19.600
11	5.117	25.083	4.897	19.966
12	4.894	25.184	4.793	20.290
13	4.688	25.112	4.760	20.423
14	4.826	25.253	4.684	20.427
15	4.685	25.299	4.639	20.614

BMFL

DESCRIPTION

18.608

TBM 212

PK NAIL & BRASS DISC "LB 364"  
E. EOP LEXINGTON PKWY

SD

SD

SD

SD

GPS 159

TBM 215

PK NAIL & DISC "LB 364"  
W. EOP LEXINGTON PKWY

SD

SD

SD

SD

GPS 160

TBM 216

PK NAIL & BRASS DISC "LB 364"  
W. EOP LEXINGTON PKWY

SD

SD

SD

SD

68

561-22

12138.1

SFWMO

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P. SLOAN  
D. WILLIAMS  
3-4-03

TR	T	HI	-	EL	BMEI	GPS 161 TBM 217	DESC PK NAR S DICK "LB 364" W. END LEANING PRWY.
16	4.584	25.148	4.736	20.563			
17	4.849	25.384	4.613	20.535			SD
18	5.109	25.844	4.649	20.735			SD
19	4.492	25.413	4.924	20.921			SD
20	4.765	25.911	4.266	21.147			SD
21	6.102	27.226	4.787	21.124		GPS 162 TBM 218	5/8" IRG REF "LB 364" N. SIDE DIET RD.
22	5.715	26.936	6.012	21.214			SD
23	4.085	26.252	4.762	22.167			SD
24	7.190	28.940	4.503	21.750			SD
25	5.299	29.344	4.894	24.045			SD
26	9.265	28.845	9.764	19.579			SFWMO DISC IN "BM SITE 6" CONC
27	5.209	29.334	4.719	24.125			SD
28	5.300	29.302	5.333	24.001			SD
29	5.143	28.948	5.497	23.805			SD
30	5.331	29.558	4.721	24.226			SD



70/  
561-22

SFWMD

12188-1

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D. WILLIAMS  
3-4-03

TP	+	HE	-	EL
31	5.752	29.330	5.980	23.578
32	4.718	29.321	4.727	24.603
33	4.602	29.180	4.743	24.577
34	5.780	30.256	4.704	24.476
35	7.57	31.512	6.314	23.943
36	5.154	32.369	4.297	27.216
37	4.425	31.904	4.891	27.479
38	4.751	32.27	4.385	27.519
39	4.337	31.853	4.753	27.517
40	4.072	32.318	3.607	28.246
41	5.068	32.669	4.717	27.601
42	4.778	32.525	4.922	27.747
43	5.421	32.529	5.417	27.108
44	4.715	32.404	4.84	27.689
45	6.176	34.016	4.564	27.84
46	4.178	33.737	4.458	29.559
47	4.557	34.27	4.024	29.713

B&amp;E

DBSC

GPS 163  
TBM 219

5/8" IRC REF LB 364"

S.D.

S.D.

S.D.

S.D.

GPS 164  
TBM 220

SET 5/8" IRC LB 364)

S.D.

S.D.

S.D.

S.D.

GPS 165  
TBM 221

SET 5/8" IRC LB 364

S.D.

S.D.

S.D.

S.D.

GPS 166  
TBM 222

SET 5/8" IRC LB 364

S.D.

72  
501-22

SFVMD 12188-1

K ROYER  
P SLOAN  
D WILLIAMS  
3-2-03

TP	+	M1	-	EC
48	4.782	34.496	4.556	29.714
49	5.161	34.32	5.337	29.159
50	5.243	34.494	5.069	29.252
51	4.92	33.757	5.657	28.837
52	4.77	34.184	4.343	29.414
53	5.171	35.449	3.906	30.278
54	3.68	32.9	6.229	29.22
55	4.829	32.417	5.311	27.589
56	4.61	31.877	5.15	27.267
57	4.905	32.537	4.245	27.632
58	4.46	32.478	4.52	28.017
59	4.645	33.025	4.148	28.33
60	4.894	33.109	4.809	28.216
61	5.282	33.695	4.696	28.413
62	4.274	33.194	4.776	28.919
63	5.079	33.804	4.468	28.725
64	4.277	32.629	5.453	28.352

BME/E.

DESC

S.D.

S.D.

S.D.

GPS 167

TBM 223 SET 5/8 IRC LB 364

S.D.

S.D.

S.D.

S.D.

GPS 168

TBM 224 SET 5/8 IRC REF LB 364

S.D.

S.D.

S.D.

S.D.

GPS 169

TBM 225 SET 5/8 IRC REF LB 364

S.D.

S.D.

S.D.

74

561-22 SFWMO 12188-1

K. ROBER  
P. SLOAN  
D. WILLIAMS  
3-3-03

TP	+	H.I	-	ELEV	Bm ELEV	DGSC
65	4.382	33.138	3.872	28.757		S.D.
66	5.650	34.017	4.772	28.367	GPS 170 TBM 226	5E 5/8" LB 364 RC REF
67	3.897	32.903	5.010	29.006		
68	4.722	33.216	4.409	28.494		
69	5.068	33.277	5.007	28.209		
70	5.154	33.973	4.458	28.819		
* 71	5.544	33.835	5.682	28.291	GPS 177 TBM 227	Set 5/8" LB RC REF 364
72	5.075	33.714	5.196	28.638		
73	4.695	33.454	4.955	28.759		
74	4.771	33.051	5.175	28.28		
75	5.156	33.264	4.943	28.108		
* 76	5.613	34.671	4.206	29.058	GPS 195 TBM 228	Set 5/8" LB 1R2 364
77	5.259	34.627	5.303	29.680		
78	5.162	34.566	5.223	29.404		
79	4.713	34.674	4.605	29.961		
80	4.784	34.561	4.897	29.777		

76/

561-22 SFWMD 12188-1

TP	+	HI	-	ELEV.
81	3.596	33.062	5.095	29.066
82	5.204	34.990	3.277	29.785
83	4.664	34.802	4.771	30.219
84	6.296	34.560	6.619	28.263
85	4.815	34.524	4.850	29.709
86	5.264	35.035	4.754	29.770
87	4.905	34.789	5.151	29.884
88	4.866	34.685	4.970	29.819
89	5.181	34.857	5.009	29.676
90	5.145	34.183	5.819	29.038
91	4.993	33.213	5.963	28.221
92	5.322	33.487	5.049	28.165
93	5.054	33.787	4.754	28.733
94	5.195	33.903	5.078	28.709
95	5.498	34.149	5.252	28.651
96	4.467	33.035	5.581	28.569

BM ELEV

DESCRIPTION

BM SITE 5  
GPS196 set 5/8 12c  
TBM 229 LB 364

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D. WILLIAMS  
3-5-83

78/  
56-122

SFWMD 12188-1

K ROYER  
P SLOAN  
D WILLIAMS  
3-3-03

TP	+	HI	-	ELEV.
97	4.560	32.957	4.638	28.397
98	4.991	33.169	4.780	28.178
99	5.245	34.336	4.177	28.991
100	3.758	33.339	4.755	29.581
101	4.996	33.288	5.046	28.293
102	5.323	33.264	5.348	27.940
103	4.301	32.999	4.566	28.698
104	5.153	33.151	5.001	27.998
105	4.706	32.816	5.041	28.110
106	4.761	33.126	4.450	28.366
107	4.682	32.801	5.007	28.119
108	4.287	32.333	4.706	28.096
109	4.466	32.052	4.736	27.646
110	4.819	32.278	4.593	27.459
111	4.965	32.191	5.052	27.226
112				

BM  
ELEV.

DESC.

S.O.

"

"

S.D.

80

K. ROYER  
P. SLEDAN  
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3-5-03

5601-22	12188.1	SFWMD		
TP	+	HE	-	EL
113	5.756	32.854	5.094	27.097
114	5.392	34.421	3.824	29.029
115	4.863	35.094	4.190	30.231
116	5.149	34.593	5.649	29.445
117	5.116	34.387	5.323	29.270
118	5.242	34.615	5.013	29.373
119	5.411	34.520	5.566	29.109
120	4.963	34.008	5.476	29.044
121	5.154	34.217	4.945	29.062
122	4.658	34.168	4.707	29.510
123	5.393	32.549	7.013	27.155
124	5.095	32.349	5.294	27.254
125	5.547	32.665	5.231	27.118
126	5.240	32.267	5.638	27.027
127	4.826	32.383	4.711	27.556
128	5.040	32.024	5.399	26.983

BmEL

DESC.

SD

"

"

82/

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12188-1

SFUND

K. ROYER  
P. SLOAN  
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3-5-03

TD	+	HI	-	EL
129	4.272	32.002	4.293	27.731
130	4.877	32.155	4.724	27.278
131	5.047	32.225	4.977	27.179
132	4.729	31.907	5.047	27.179
133	1.916	28.849	4.974	26.933
134	4.524	28.726	4.647	24.202
135	5.122	28.877	4.971	23.755
136	4.238	28.838	4.277	24.600
137	5.393	28.938	5.293	23.544
138	4.395	28.991	4.342	24.596
139	4.937	29.329	4.599	24.392
140	5.573	29.395	5.507	23.822
141	4.851	28.909	5.337	24.058
142	4.090	28.563	4.437	24.473
143	3.753	27.444	4.872	23.691
144	5.971	27.366	6.049	21.395

BUEL

DESC

SD

"

"

81

501-22

12188-1

SFMMO

K. ROYER  
P. SLOAN  
D. WILLIAMS  
3-5-03

TP	+	HT	-	EL	BMEL	DESC
145	4.989	26.613	5.742	21.624		S.D.
146	5.187	26.91	4.890	21.723		" "
147	5.163	26.253	5.821	21.089		" "
148	4.75	25.834	5.168	21.084		S.D.
149	4.312	25.169	4.977	20.957		S.A.
150	4.479	24.989	4.659	20.51		S.D.
151	4.609	25.198	4.399	20.59		S.D.
152	4.788	25.368	4.618	20.58		S.D.
153	4.633	25.028	4.972	20.396		S.O.
154	4.755	25.059	4.724	20.304		S.D.
155	4.582	24.966	4.675	20.384		S.O.
156	4.606	24.758	4.814	20.152		S.O.
157	4.493	24.399	4.851	19.906		S.D.
158	4.271	23.831	4.839	19.56		S.D.
159	4.580	23.725	4.686	19.145		S.D.
160	4.594	23.408	4.911	18.814		S.D.
161	4.439	23.194	4.653	18.755		S.D.



860/

561-22

SFWM

12/88-1

K ROYER  
P SLOAN  
D WILLIAMS  
3-5-03

TP	+	HF	-	EL
162	4.999	23.527	4.666	18.528
163	4.588	23.301	4.814	18.713
164	4.771	23.420	4.652	18.65
165	4.742	23.494	4.668	18.753
166	4.822	23.547	4.709	18.725
167			4.999	18.548

BNE

DESC.

S.D.

S.D.

S.D.

S.D.

S.D.

18.608 7.06

TBM 212

SEE PG 64/  
561-22

92/

561-22 SFWMD 12188-1

K ROYER  
P SLOAN  
D WILLIAMS  
3-6-03

## LEVELS @ SITE 5

TP	+	HI	-	EL	BUEL	DESC
1	5.305	35.09			29.785	DISC IN CONE SLAB "BM SITE 5"
			3.307	31.782		REF PT ON "POSTACID" "X" ON PLYWOOD
			12.600	22.493		WATER LEVEL @ STAFF GAUGE, GAUGE READS 23.82 ON 3-6-03
			4.869	30.221		GRND @ WELL 6' SOUTH CRS 85N
			0.876	34.213		REF PT @ WELL 6' SOUTH CRS 85N W. FACE TOP 2" P.V.C.
			5.036	30.054		GRO @ CRS 85N
2	1.002	34.967	1.125	33.965		REF PT ON CRS 85N W. FACE TOP 2" P.V.C.
3			5.187	29.780	29.785	Bm SITE 5

94

501-22

SRUMD

12188-1

K. DYER  
D. WILLIAMS  
P. SLATTIN  
3-6-03

## LEVELS @ SITE 5

TP + HI - EL

1 5.046 35.259

5.423 29.836

1.828 33.432

5.291 29.968

2 1.993 35.208 2.044 33.215

3 4.989 30.219

BUEL

30.219

30.219

DESC

TBM 229  
5/8" IRC "REF LB 304"GRD @ WELL 6' WEST OF  
CRS 05FREF PT @ WELL 6' WEST OF  
CRS 05F. N. FACE TOP  
OF 2" P.V.C.

GRD @ CRS 05F

REF PT ON CRS 05F.  
EAST FACE TOP 2" P.V.C.

TBM 229

# NAVD88 Adjusted

CRS056-88. LEV

414	13. 740
2A	16. 967
2B	18. 782
212	18. 608
166	18. 607
2	18. 783
165	18. 784
3	18. 785
164	18. 811
4	18. 669
163	18. 707
5	18. 702
162	18. 771
215	18. 614
161	18. 586
7	18. 754
160	18. 812
8	18. 828
159	18. 871
9	19. 133
158	19. 202
10	19. 603
157	19. 616
216	19. 969
156	19. 962
12	20. 294
155	20. 206
13	20. 428
154	20. 438
14	20. 432
153	20. 358
15	20. 620
152	20. 448
217	20. 569
151	20. 632
17	20. 540
150	20. 641
18	20. 741
149	20. 560
19	20. 926
148	20. 907
20	21. 152
147	21. 134
218	21. 131
146	21. 138
22	21. 221
145	21. 772
23	22. 174
144	21. 673
24	21. 757
143	21. 443
25	24. 053
142	23. 739
SITE6	19. 588
141	24. 521
27	24. 135
140	24. 106
28	24. 011
139	23. 870
29	23. 814
138	24. 440
30	24. 237
137	24. 643
219	23. 588
136	23. 592
32	24. 614
135	24. 646
33	24. 589
134	23. 801
34	24. 487
133	24. 248
35	23. 954

132	26. 978
220	27. 227
131	27. 223
37	27. 490
130	27. 223
38	27. 531
129	27. 322
39	27. 529
128	27. 774
40	28. 259
127	27. 027
221	27. 615
126	27. 599
42	27. 761
125	27. 070
43	27. 122
124	27. 161
44	27. 704
123	27. 296
45	27. 855
122	27. 197
222	29. 574
121	29. 552
47	29. 729
120	29. 104
48	29. 730
119	29. 086
49	29. 175
118	29. 151
50	29. 268
117	29. 414
223	28. 854
116	29. 311
52	29. 432
115	29. 484
53	30. 296
114	30. 270
54	29. 238
113	29. 068
55	27. 608
112	27. 135
224	27. 287
111	27. 264
57	27. 652
110	27. 497
58	28. 038
109	27. 683
59	28. 350
108	28. 132
60	28. 236
107	28. 156
225	28. 435
106	28. 401
62	28. 941
105	28. 145
63	28. 747
104	28. 033
64	28. 374
103	28. 732
65	28. 779
102	27. 975
226	28. 389
101	28. 327
67	29. 030
100	29. 614
68	28. 518
99	29. 024
69	28. 233
98	28. 210
70	28. 844
97	28. 429
227	28. 316

96	28. 600
72	28. 664
95	28. 683
73	28. 785
94	28. 739
74	28. 305
93	28. 763
75	28. 134
92	28. 194
228	29. 084
91	28. 250
77	29. 394
90	29. 068
78	29. 431
89	29. 705
79	29. 988
88	29. 848
80	29. 804
87	29. 913
81	29. 494
86	29. 799
SITE5	29. 813
85	29. 738
229	30. 246
84	28. 292

Start-Line				
	414			13.74
	414 Rb	9.12 HD	75.66	
2A	Rf	5.893 HD	214.99	
2A				16.967
2A	Rb	4.911 HD	251.67	
	212 Rf	3.271 HD	254.79	
	212			18.607
	212 Rb	5.2 HD	282.22	
	2 Rf	5.025 HD	290.55	
	2			18.782
	2 Rb	4.934 HD	294.72	
	3 Rf	4.932 HD	305.51	
	3			18.784
	3 Rb	4.915 HD	322.8	
	4 Rf	5.032 HD	298.59	
	4			18.667
	4 Rb	4.962 HD	295.93	
	5 Rf	4.929 HD	310.47	
	5			18.700
	5 Rb	5.155 HD	304.69	
	215 Rf	5.243 HD	289.96	
	215			18.612
	215 Rb	5.072 HD	317.75	
	7 Rf	4.933 HD	317.39	
	7			18.751
	7 Rb	5.167 HD	252.62	
	8 Rf	5.093 HD	248.49	
	8			18.825
	8 Rb	5.082 HD	278.71	
	9 Rf	4.777 HD	295.6	
	9			19.130
	9 Rb	5.251 HD	257.97	
	10 Rf	4.782 HD	303.87	
	10			19.599
	10 Rb	5.263 HD	293.57	
	216 Rf	4.897 HD	300.52	
	216			19.965
	216 Rb	5.117 HD	295.57	
	12 Rf	4.793 HD	284.19	
	12			20.289
	12 Rb	4.894 HD	282.05	
	13 Rf	4.76 HD	285.43	
	13			20.423
	13 Rb	4.688 HD	300.39	
	14 Rf	4.684 HD	286.81	
	14			20.427
	14 Rb	4.826 HD	269.36	
	15 Rf	4.639 HD	289.4	
	15			20.614
	15 Rb	4.685 HD	269.62	
	217 Rf	4.736 HD	301.51	

217			20.563
217 Rb	4.584	HD	295.18
17 Rf	4.613	HD	298.92
17			20.534
17 Rb	4.849	HD	271.65
18 Rf	4.649	HD	308.07
18			20.734
18 Rb	5.109	HD	290.65
19 Rf	4.924	HD	298.88
19			20.919
19 Rb	4.492	HD	291.08
20 Rf	4.266	HD	290.88
20			21.145
20 Rb	4.765	HD	288.02
218 Rf	4.787	HD	278.44
218			21.123
218 Rb	6.102	HD	248.16
22 Rf	6.012	HD	271.32
22			21.213
22 Rb	5.715	HD	243.18
23 Rf	4.762	HD	247.18
23			22.166
23 Rb	4.085	HD	301.67
24 Rf	4.503	HD	225.29
24			21.748
24 Rb	7.19	HD	242.29
25 Rf	4.894	HD	278.87
25			24.044
25 Rb	5.299	HD	196.36
SITE6 Rf	9.764	HD	152.99
SITE6			19.579
SITE6 Rb	9.265	HD	241.76
27 Rf	4.719	HD	226.71
27			24.125
27 Rb	5.209	HD	303.67
28 Rf	5.333	HD	265.75
28			24.001
28 Rb	5.3	HD	271.32
29 Rf	5.497	HD	290.55
29			23.804
29 Rb	5.143	HD	277.66
30 Rf	4.721	HD	288.78
30			24.226
30 Rb	5.331	HD	291.04
219 Rf	5.98	HD	298.88
219			23.577
219 Rb	5.752	HD	256.36
32 Rf	4.727	HD	294.42
32			24.602
32 Rb	4.718	HD	302.2
33 Rf	4.743	HD	279.4
33			24.577



33 Rb	4.602 HD	312.11	
34 Rf	4.704 HD	285.17	
34			24.475
34 Rb	5.78 HD	310.04	
35 Rf	6.314 HD	238.25	
35			23.941
35 Rb	7.57 HD	232.09	
220 Rf	4.297 HD	304.59	
220			27.214
220 Rb	5.154 HD	249.54	
37 Rf	4.891 HD	273.75	
37			27.477
37 Rb	4.425 HD	294.95	
38 Rf	4.385 HD	270.44	
38			27.517
38 Rb	4.751 HD	300.36	
39 Rf	4.753 HD	263.75	
39			27.515
39 Rb	4.337 HD	297.41	
40 Rf	3.607 HD	302.62	
40			28.245
40 Rb	4.072 HD	300.39	
221 Rf	4.717 HD	298.98	
221			27.600
221 Rb	5.068 HD	309.25	
42 Rf	4.922 HD	277.62	
42			27.746
42 Rb	4.778 HD	295.11	
43 Rf	5.417 HD	257.12	
43			27.107
43 Rb	5.421 HD	254.89	
44 Rf	4.84 HD	263.94	
44			27.688
44 Rb	4.715 HD	270.31	
45 Rf	4.564 HD	268.9	
45			27.839
45 Rb	6.177 HD	291.17	
222 Rf	4.458 HD	302.33	
222			29.558
222 Rb	4.178 HD	274.74	
47 Rf	4.024 HD	247.77	
47			29.712
47 Rb	4.557 HD	301.48	
48 Rf	4.556 HD	308.3	
48			29.713
48 Rb	4.782 HD	262.57	
49 Rf	5.337 HD	305.81	
49			29.158
49 Rb	5.161 HD	298.42	
50 Rf	5.069 HD	294.42	
50			29.250
50 Rb	5.243 HD	294.09	

223 Rf	5.657 HD	293.57	
223			28.836
223 Rb	4.92 HD	317.49	
52 Rf	4.343 HD	246.13	
52			29.413
52 Rb	4.77 HD	269.23	
53 Rf	3.906 HD	297.44	
53			30.277
53 Rb	5.171 HD	310.2	
54 Rf	6.229 HD	313.06	
54			29.219
54 Rb	3.68 HD	319.62	
55 Rf	5.311 HD	289.17	
55			27.588
55 Rb	4.829 HD	271.36	
224 Rf	5.15 HD	296.1	
224			27.267
224 Rb	4.61 HD	280.45	
57 Rf	4.245 HD	263.48	
57			27.632
57 Rb	4.905 HD	289.04	
58 Rf	4.52 HD	283.89	
58			28.017
58 Rb	4.46 HD	254.36	
59 Rf	4.148 HD	273.85	
59			28.329
59 Rb	4.695 HD	267.13	
60 Rf	4.809 HD	258.96	
60			28.215
60 Rb	4.894 HD	325.52	
225 Rf	4.696 HD	294.23	
225			28.413
225 Rb	5.282 HD	266.27	
62 Rf	4.776 HD	318.7	
62			28.919
62 Rb	4.274 HD	320.8	
63 Rf	4.468 HD	283.63	
63			28.725
63 Rb	5.079 HD	274.61	
64 Rf	5.453 HD	313.45	
64			28.351
64 Rb	4.277 HD	297.21	
65 Rf	3.872 HD	303.44	
65			28.756
65 Rb	4.382 HD	299.97	
226 Rf	4.772 HD	302.66	
226			28.366
226 Rb	5.65 HD	254.07	
67 Rf	5.01 HD	282.05	
67			29.006
67 Rb	3.897 HD	305.02	
68 Rf	4.409 HD	264.4	

68			28.494
68 Rb	4.722	HD	260.99
69 Rf	5.007	HD	307.09
69			28.209
69 Rb	5.068	HD	297.9
70 Rf	4.458	HD	262.27
70			28.819
70 Rb	5.154	HD	247.64
227 Rf	5.682	HD	308.14
227			28.291
227 Rb	5.544	HD	302.92
72 Rf	5.196	HD	248.46
72			28.639
72 Rb	5.075	HD	231.2
73 Rf	4.955	HD	286.15
73			28.759
73 Rb	4.695	HD	325.23
74 Rf	5.175	HD	324.97
74			28.279
74 Rb	4.771	HD	305.77
75 Rf	4.943	HD	300.29
75			28.107
75 Rb	5.156	HD	280.77
228 Rf	4.206	HD	299.67
228			29.057
228 Rb	5.613	HD	244.29
77 Rf	5.303	HD	284.84
77			29.367
77 Rb	5.259	HD	299.54
78 Rf	5.223	HD	312.27
78			29.403
78 Rb	5.162	HD	284.15
79 Rf	4.605	HD	284.71
79			29.960
79 Rb	4.713	HD	255.35
80 Rf	4.897	HD	300.16
80			29.776
80 Rb	4.784	HD	237.4
81 Rf	5.095	HD	293.67
81			29.465
81 Rb	3.596	HD	297.08
SITE5 Rf	3.277	HD	121.98
SITE5			29.784
SITE5 Rb	5.204	HD	268.44
229 Rf	4.771	HD	319.82
229			30.217
229 Rb	4.664	HD	320.83
84 Rf	6.619	HD	216.86
84			28.262
84 Rb	6.296	HD	205.48
85 Rf	4.85	HD	256.89
85			29.708

85 Rb	4.815	HD	292.22
86 Rf	4.754	HD	307.25
86			29.769
86 Rb	5.264	HD	305.61
87 Rf	5.151	HD	326.67
87			29.882
87 Rb	4.905	HD	290.94
88 Rf	4.97	HD	318.57
88			29.817
88 Rb	4.866	HD	288.12
89 Rf	5.009	HD	194.72
89			29.674
89 Rb	5.181	HD	148.23
90 Rf	5.819	HD	195.44
90			29.036
90 Rb	5.145	HD	294.88
91 Rf	5.963	HD	299.47
91			28.218
91 Rb	4.993	HD	315.42
92 Rf	5.049	HD	250.69
92			28.162
92 Rb	5.322	HD	256.89
93 Rf	4.754	HD	277.99
93			28.730
93 Rb	5.054	HD	279.79
94 Rf	5.078	HD	296.39
94			28.706
94 Rb	5.195	HD	237.53
95 Rf	5.252	HD	306
95			28.649
95 Rb	5.498	HD	317.91
96 Rf	5.581	HD	298.75
96			28.566
96 Rb	4.467	HD	271.06
97 Rf	4.638	HD	289.73
97			28.395
97 Rb	4.56	HD	239.01
98 Rf	4.78	HD	308.27
98			28.175
98 Rb	4.991	HD	277.66
99 Rf	4.177	HD	193.18
99			28.989
99 Rb	5.345	HD	317.09
100 Rf	4.755	HD	209.42
100			29.579
100 Rb	3.758	HD	212.83
101 Rf	5.046	HD	271.69
101			28.291
101 Rb	4.996	HD	246.59
102 Rf	5.348	HD	284.68
102			27.939
102 Rb	5.323	HD	309.65

103 Rf	4.566	HD	274.05
103			28.696
103 Rb	4.301	HD	309.71
104 Rf	5.001	HD	305.38
104			27.996
104 Rb	5.153	HD	320.28
105 Rf	5.041	HD	291.96
105			28.108
105 Rb	4.706	HD	172.7
106 Rf	4.45	HD	149.57
106			28.364
106 Rb	4.761	HD	302.95
107 Rf	5.007	HD	304.99
107			28.118
107 Rb	4.682	HD	303.38
108 Rf	4.706	HD	320.8
108			28.094
108 Rb	4.287	HD	313.25
109 Rf	4.736	HD	322.41
109			27.645
109 Rb	4.406	HD	303.05
110 Rf	4.593	HD	278.74
110			27.458
110 Rb	4.819	HD	216.76
111 Rf	5.052	HD	126.97
111			27.225
111 Rb	4.965	HD	248.1
112 Rf	5.094	HD	249.61
112			27.096
112 Rb	5.756	HD	267.88
113 Rf	3.824	HD	254.63
113			29.028
113 Rb	5.392	HD	279.03
114 Rf	4.19	HD	302.07
114			30.230
114 Rb	4.863	HD	253.44
115 Rf	5.649	HD	294.75
115			29.444
115 Rb	5.149	HD	309.58
116 Rf	5.323	HD	316.86
116			29.270
116 Rb	5.116	HD	267.68
117 Rf	5.013	HD	317.52
117			29.373
117 Rb	5.242	HD	313.09
118 Rf	5.506	HD	281.1
118			29.109
118 Rb	5.411	HD	336.78
119 Rf	5.476	HD	292.32
119			29.044
119 Rb	4.963	HD	292.55
120 Rf	4.945	HD	281.73

120		29.062
120 Rb	5.154 HD	321
121 Rf	4.707 HD	338.98
121		29.509
121 Rb	4.658 HD	320.9
122 Rf	7.013 HD	307.97
122		27.154
122 Rb	5.393 HD	303.9
123 Rf	5.294 HD	300.72
123		27.253
123 Rb	5.095 HD	312.04
124 Rf	5.231 HD	310.1
124		27.117
124 Rb	5.547 HD	312.79
125 Rf	5.638 HD	278.35
125		27.026
125 Rb	5.24 HD	215.03
126 Rf	4.711 HD	133.4
126		27.555
126 Rb	4.826 HD	213.65
127 Rf	5.399 HD	298.69
127		26.982
127 Rb	5.04 HD	284.84
128 Rf	4.293 HD	297.01
128		27.729
128 Rb	4.272 HD	307.18
129 Rf	4.724 HD	325.46
129		27.277
129 Rb	4.877 HD	295.77
130 Rf	4.977 HD	293.21
130		27.177
130 Rb	5.047 HD	322.77
131 Rf	5.047 HD	214.99
131		27.177
131 Rb	4.729 HD	277.85
132 Rf	4.974 HD	248.49
132		26.932
132 Rb	1.916 HD	313.39
133 Rf	4.647 HD	280.15
133		24.201
133 Rb	4.524 HD	307.02
134 Rf	4.971 HD	333.17
134		23.754
134 Rb	5.122 HD	276.41
135 Rf	4.277 HD	325.49
135		24.599
135 Rb	4.238 HD	240.94
136 Rf	5.293 HD	208.1
136		23.544
136 Rb	5.393 HD	258.2
137 Rf	4.342 HD	265.39
137		24.595

137 Rb	4.395 HD	247.74	
138 Rf	4.599 HD	267.42	
138			24.391
138 Rb	4.937 HD	288.48	
139 Rf	5.507 HD	327.85	
139			23.821
139 Rb	5.573 HD	318.11	
140 Rf	5.337 HD	302.53	
140			24.057
140 Rb	4.851 HD	282.12	
141 Rf	4.437 HD	280.15	
141			24.471
141 Rb	4.09 HD	321.49	
142 Rf	4.872 HD	290.45	
142			23.689
142 Rb	3.753 HD	295.64	
143 Rf	6.049 HD	195.7	
143			21.393
143 Rb	5.971 HD	194.46	
144 Rf	5.742 HD	273.23	
144			21.622
144 Rb	4.989 HD	285.66	
145 Rf	4.89 HD	227.2	
145			21.721
145 Rb	5.187 HD	128.05	
146 Rf	5.821 HD	125.23	
146			21.087
146 Rb	5.163 HD	259.68	
147 Rf	5.168 HD	242.06	
147			21.082
147 Rb	4.75 HD	282.22	
148 Rf	4.977 HD	277.23	
148			20.855
148 Rb	4.312 HD	284.12	
149 Rf	4.659 HD	278.71	
149			20.508
149 Rb	4.479 HD	277.1	
150 Rf	4.399 HD	313.35	
150			20.588
150 Rb	4.609 HD	324.8	
151 Rf	4.618 HD	314.57	
151			20.579
151 Rb	4.788 HD	328.84	
152 Rf	4.972 HD	315.65	
152			20.395
152 Rb	4.633 HD	285.99	
153 Rf	4.724 HD	339.14	
153			20.304
153 Rb	4.755 HD	317.55	
154 Rf	4.675 HD	311.29	
154			20.384
154 Rb	4.582 HD	283.23	

155 Rf	4.814	HD	297.93	
155				20.152
155 Rb	4.606	HD	232.64	
156 Rf	4.851	HD	232.97	
156				19.907
156 Rb	4.493	HD	286.65	
157 Rf	4.839	HD	332.09	
157				19.561
157 Rb	4.271	HD	278.58	
158 Rf	4.686	HD	320.54	
158				19.146
158 Rb	4.58	HD	260.86	
159 Rf	4.911	HD	289.96	
159				18.815
159 Rb	4.594	HD	288.02	
160 Rf	4.653	HD	276.77	
160				18.756
160 Rb	4.439	HD	285.1	
161 Rf	4.666	HD	249.87	
161				18.529
161 Rb	4.999	HD	279.36	
162 Rf	4.814	HD	299.57	
162				18.714
162 Rb	4.588	HD	286.02	
163 Rf	4.652	HD	302.16	
163				18.650
163 Rb	4.771	HD	290.29	
164 Rf	4.668	HD	301.64	
164				18.753
164 Rb	4.742	HD	306.07	
165 Rf	4.769	HD	316.17	
165				18.726
165 Rb	4.822	HD	305.38	
166 Rf	4.999	HD	314.47	
166				18.549
166 Rb	3.547	HD	294.09	
2B Rf	3.373	HD	266.31	
2B				18.723
2B Rb	1.895	HD	187.2	
414 Rf	6.937	HD	75.79	
414				13.681
End-Line				13.74
				-0.059 ACTUAL ERROR
		94230.310		TOTAL DISTANCE
	1/	-1597123.898		PRECISION
		0.211		MTS ALLOWABLE ERROR



# NGVD29 Adjusted

CRS056-29. LEV

414	15.030
2A	18.257
2B	20.072
212	19.898
166	19.897
2	20.073
165	20.074
3	20.075
164	20.101
4	19.959
163	19.997
5	19.992
162	20.061
215	19.904
161	19.876
7	20.044
160	20.102
8	20.118
159	20.161
9	20.423
158	20.492
10	20.893
157	20.906
216	21.259
156	21.252
12	21.584
155	21.496
13	21.718
154	21.728
14	21.722
153	21.648
15	21.910
152	21.738
217	21.859
151	21.922
17	21.830
150	21.931
18	22.031
149	21.850
19	22.216
148	22.197
20	22.442
147	22.424
218	22.421
146	22.428
22	22.511
145	23.062
23	23.464
144	22.963
24	23.047
143	22.733
25	25.343
142	25.029
SITE6	20.878
141	25.811
27	25.425
140	25.396
28	25.301
139	25.160
29	25.104
138	25.730
30	25.527
137	25.933
219	24.878
136	24.882
32	25.904
135	25.936
33	25.879
134	25.091
34	25.777
133	25.538
35	25.244

132	28. 268
220	28. 517
131	28. 513
37	28. 780
130	28. 513
38	28. 821
129	28. 612
39	28. 819
128	29. 064
40	29. 549
127	28. 317
221	28. 905
126	28. 889
42	29. 051
125	28. 360
43	28. 412
124	28. 451
44	28. 994
123	28. 586
45	29. 145
122	28. 487
222	30. 864
121	30. 842
47	31. 019
120	30. 394
48	31. 020
119	30. 376
49	30. 465
118	30. 441
50	30. 558
117	30. 704
223	30. 144
116	30. 601
52	30. 722
115	30. 774
53	31. 586
114	31. 560
54	30. 528
113	30. 358
55	28. 898
112	28. 425
224	28. 577
111	28. 554
57	28. 942
110	28. 787
58	29. 328
109	28. 973
59	29. 640
108	29. 422
60	29. 526
107	29. 446
225	29. 725
106	29. 691
62	30. 231
105	29. 435
63	30. 037
104	29. 323
64	29. 664
103	30. 022
65	30. 069
102	29. 265
226	29. 679
101	29. 617
67	30. 320
100	30. 904
68	29. 808
99	30. 314
69	29. 523
98	29. 500
70	30. 134
97	29. 719
227	29. 606

96	29. 890
72	29. 954
95	29. 973
73	30. 075
94	30. 029
74	29. 595
93	30. 053
75	29. 424
92	29. 484
228	30. 374
91	29. 540
77	30. 684
90	30. 358
78	30. 721
89	30. 995
79	31. 278
88	31. 138
80	31. 094
87	31. 203
81	30. 784
86	31. 089
SITE5	31. 103
85	31. 028
229	31. 536
84	29. 582

Start-Line				
	414			15.03
	414 Rb	9.12 HD	75.66	
2A	Rf	5.893 HD	214.99	
2A				18.257
2A	Rb	4.911 HD	251.67	
	212 Rf	3.271 HD	254.79	
	212			19.897
	212 Rb	5.2 HD	282.22	
	2 Rf	5.025 HD	290.55	
	2			20.072
	2 Rb	4.934 HD	294.72	
	3 Rf	4.932 HD	305.51	
	3			20.074
	3 Rb	4.915 HD	322.8	
	4 Rf	5.032 HD	298.59	
	4			19.957
	4 Rb	4.962 HD	295.93	
	5 Rf	4.929 HD	310.47	
	5			19.990
	5 Rb	5.155 HD	304.69	
	215 Rf	5.243 HD	289.96	
	215			19.902
	215 Rb	5.072 HD	317.75	
	7 Rf	4.933 HD	317.39	
	7			20.041
	7 Rb	5.167 HD	252.62	
	8 Rf	5.093 HD	248.49	
	8			20.115
	8 Rb	5.082 HD	278.71	
	9 Rf	4.777 HD	295.6	
	9			20.420
	9 Rb	5.251 HD	257.97	
	10 Rf	4.782 HD	303.87	
	10			20.889
	10 Rb	5.263 HD	293.57	
	216 Rf	4.897 HD	300.52	
	216			21.255
	216 Rb	5.117 HD	295.57	
	12 Rf	4.793 HD	284.19	
	12			21.579
	12 Rb	4.894 HD	282.05	
	13 Rf	4.76 HD	285.43	
	13			21.713
	13 Rb	4.688 HD	300.39	
	14 Rf	4.684 HD	286.81	
	14			21.717
	14 Rb	4.826 HD	269.36	
	15 Rf	4.639 HD	289.4	
	15			21.904
	15 Rb	4.685 HD	269.62	
	217 Rf	4.736 HD	301.51	

217			21.853
217 Rb	4.584	HD	295.18
17 Rf	4.613	HD	298.92
17			21.824
17 Rb	4.849	HD	271.65
18 Rf	4.649	HD	308.07
18			22.024
18 Rb	5.109	HD	290.65
19 Rf	4.924	HD	298.88
19			22.209
19 Rb	4.492	HD	291.08
20 Rf	4.266	HD	290.88
20			22.435
20 Rb	4.765	HD	288.02
218 Rf	4.787	HD	278.44
218			22.413
218 Rb	6.102	HD	248.16
22 Rf	6.012	HD	271.32
22			22.503
22 Rb	5.715	HD	243.18
23 Rf	4.762	HD	247.18
23			23.456
23 Rb	4.085	HD	301.67
24 Rf	4.503	HD	225.29
24			23.038
24 Rb	7.19	HD	242.29
25 Rf	4.894	HD	278.87
25			25.334
25 Rb	5.299	HD	196.36
SITE6 Rf	9.764	HD	152.99
SITE6			20.869
SITE6 Rb	9.265	HD	241.76
27 Rf	4.719	HD	226.71
27			25.415
27 Rb	5.209	HD	303.67
28 Rf	5.333	HD	265.75
28			25.291
28 Rb	5.3	HD	271.32
29 Rf	5.497	HD	290.55
29			25.094
29 Rb	5.143	HD	277.66
30 Rf	4.721	HD	288.78
30			25.516
30 Rb	5.331	HD	291.04
219 Rf	5.98	HD	298.88
219			24.867
219 Rb	5.752	HD	256.36
32 Rf	4.727	HD	294.42
32			25.892
32 Rb	4.718	HD	302.2
33 Rf	4.743	HD	279.4
33			25.867

33 Rb	4.602 HD	312.11	
34 Rf	4.704 HD	285.17	
34			25.765
34 Rb	5.78 HD	310.04	
35 Rf	6.314 HD	238.25	
35			25.231
35 Rb	7.57 HD	232.09	
220 Rf	4.297 HD	304.59	
220			28.504
220 Rb	5.154 HD	249.54	
37 Rf	4.891 HD	273.75	
37			28.767
37 Rb	4.425 HD	294.95	
38 Rf	4.385 HD	270.44	
38			28.807
38 Rb	4.751 HD	300.36	
39 Rf	4.753 HD	263.75	
39			28.805
39 Rb	4.337 HD	297.41	
40 Rf	3.607 HD	302.62	
40			29.535
40 Rb	4.072 HD	300.39	
221 Rf	4.717 HD	298.98	
221			28.890
221 Rb	5.068 HD	309.25	
42 Rf	4.922 HD	277.62	
42			29.036
42 Rb	4.778 HD	295.11	
43 Rf	5.417 HD	257.12	
43			28.397
43 Rb	5.421 HD	254.89	
44 Rf	4.84 HD	263.94	
44			28.978
44 Rb	4.715 HD	270.31	
45 Rf	4.564 HD	268.9	
45			29.129
45 Rb	6.177 HD	291.17	
222 Rf	4.458 HD	302.33	
222			30.848
222 Rb	4.178 HD	274.74	
47 Rf	4.024 HD	247.77	
47			31.002
47 Rb	4.557 HD	301.48	
48 Rf	4.556 HD	308.3	
48			31.003
48 Rb	4.782 HD	262.57	
49 Rf	5.337 HD	305.81	
49			30.448
49 Rb	5.161 HD	298.42	
50 Rf	5.069 HD	294.42	
50			30.540
50 Rb	5.243 HD	294.09	

223 Rf	5.657 HD	293.57	
223			30.126
223 Rb	4.92 HD	317.49	
52 Rf	4.343 HD	246.13	
52			30.703
52 Rb	4.77 HD	269.23	
53 Rf	3.906 HD	297.44	
53			31.567
53 Rb	5.171 HD	310.2	
54 Rf	6.229 HD	313.06	
54			30.509
54 Rb	3.68 HD	319.62	
55 Rf	5.311 HD	289.17	
55			28.878
55 Rb	4.829 HD	271.36	
224 Rf	5.15 HD	296.1	
224			28.557
224 Rb	4.61 HD	280.45	
57 Rf	4.245 HD	263.48	
57			28.922
57 Rb	4.905 HD	289.04	
58 Rf	4.52 HD	283.89	
58			29.307
58 Rb	4.46 HD	254.36	
59 Rf	4.148 HD	273.85	
59			29.619
59 Rb	4.695 HD	267.13	
60 Rf	4.809 HD	258.96	
60			29.505
60 Rb	4.894 HD	325.52	
225 Rf	4.696 HD	294.23	
225			29.703
225 Rb	5.282 HD	266.27	
62 Rf	4.776 HD	318.7	
62			30.209
62 Rb	4.274 HD	320.8	
63 Rf	4.468 HD	283.63	
63			30.015
63 Rb	5.079 HD	274.61	
64 Rf	5.453 HD	313.45	
64			29.641
64 Rb	4.277 HD	297.21	
65 Rf	3.872 HD	303.44	
65			30.046
65 Rb	4.382 HD	299.97	
226 Rf	4.772 HD	302.66	
226			29.656
226 Rb	5.65 HD	254.07	
67 Rf	5.01 HD	282.05	
67			30.296
67 Rb	3.897 HD	305.02	
68 Rf	4.409 HD	264.4	

68			29.784
68 Rb	4.722	HD	260.99
69 Rf	5.007	HD	307.09
69			29.499
69 Rb	5.068	HD	297.9
70 Rf	4.458	HD	262.27
70			30.109
70 Rb	5.154	HD	247.64
227 Rf	5.682	HD	308.14
227			29.581
227 Rb	5.544	HD	302.92
72 Rf	5.196	HD	248.46
72			29.929
72 Rb	5.075	HD	231.2
73 Rf	4.955	HD	286.15
73			30.049
73 Rb	4.695	HD	325.23
74 Rf	5.175	HD	324.97
74			29.569
74 Rb	4.771	HD	305.77
75 Rf	4.943	HD	300.29
75			29.397
75 Rb	5.156	HD	280.77
228 Rf	4.206	HD	299.67
228			30.347
228 Rb	5.613	HD	244.29
77 Rf	5.303	HD	284.84
77			30.657
77 Rb	5.259	HD	299.54
78 Rf	5.223	HD	312.27
78			30.693
78 Rb	5.162	HD	284.15
79 Rf	4.605	HD	284.71
79			31.250
79 Rb	4.713	HD	255.35
80 Rf	4.897	HD	300.16
80			31.066
80 Rb	4.784	HD	237.4
81 Rf	5.095	HD	293.67
81			30.755
81 Rb	3.596	HD	297.08
SITE5 Rf	3.277	HD	121.98
SITE5			31.074
SITE5 Rb	5.204	HD	268.44
229 Rf	4.771	HD	319.82
229			31.507
229 Rb	4.664	HD	320.83
84 Rf	6.619	HD	216.86
84			29.552
84 Rb	6.296	HD	205.48
85 Rf	4.85	HD	256.89
85			30.998



85 Rb	4.815	HD	292.22	
86 Rf	4.754	HD	307.25	
86				31.059
86 Rb	5.264	HD	305.61	
87 Rf	5.151	HD	326.67	
87				31.172
87 Rb	4.905	HD	290.94	
88 Rf	4.97	HD	318.57	
88				31.107
88 Rb	4.866	HD	288.12	
89 Rf	5.009	HD	194.72	
89				30.964
89 Rb	5.181	HD	148.23	
90 Rf	5.819	HD	195.44	
90				30.326
90 Rb	5.145	HD	294.88	
91 Rf	5.963	HD	299.47	
91				29.508
91 Rb	4.993	HD	315.42	
92 Rf	5.049	HD	250.69	
92				29.452
92 Rb	5.322	HD	256.89	
93 Rf	4.754	HD	277.99	
93				30.020
93 Rb	5.054	HD	279.79	
94 Rf	5.078	HD	296.39	
94				29.996
94 Rb	5.195	HD	237.53	
95 Rf	5.252	HD	306	
95				29.939
95 Rb	5.498	HD	317.91	
96 Rf	5.581	HD	298.75	
96				29.856
96 Rb	4.467	HD	271.06	
97 Rf	4.638	HD	289.73	
97				29.685
97 Rb	4.56	HD	239.01	
98 Rf	4.78	HD	308.27	
98				29.465
98 Rb	4.991	HD	277.66	
99 Rf	4.177	HD	193.18	
99				30.279
99 Rb	5.345	HD	317.09	
100 Rf	4.755	HD	209.42	
100				30.869
100 Rb	3.758	HD	212.83	
101 Rf	5.046	HD	271.69	
101				29.581
101 Rb	4.996	HD	246.59	
102 Rf	5.348	HD	284.68	
102				29.229
102 Rb	5.323	HD	309.65	

103 Rf	4.566	HD	274.05	
103				29.986
103 Rb	4.301	HD	309.71	
104 Rf	5.001	HD	305.38	
104				29.286
104 Rb	5.153	HD	320.28	
105 Rf	5.041	HD	291.96	
105				29.398
105 Rb	4.706	HD	172.7	
106 Rf	4.45	HD	149.57	
106				29.654
106 Rb	4.761	HD	302.95	
107 Rf	5.007	HD	304.99	
107				29.408
107 Rb	4.682	HD	303.38	
108 Rf	4.706	HD	320.8	
108				29.384
108 Rb	4.287	HD	313.25	
109 Rf	4.736	HD	322.41	
109				28.935
109 Rb	4.406	HD	303.05	
110 Rf	4.593	HD	278.74	
110				28.748
110 Rb	4.819	HD	216.76	
111 Rf	5.052	HD	126.97	
111				28.515
111 Rb	4.965	HD	248.1	
112 Rf	5.094	HD	249.61	
112				28.386
112 Rb	5.756	HD	267.88	
113 Rf	3.824	HD	254.63	
113				30.318
113 Rb	5.392	HD	279.03	
114 Rf	4.19	HD	302.07	
114				31.520
114 Rb	4.863	HD	253.44	
115 Rf	5.649	HD	294.75	
115				30.734
115 Rb	5.149	HD	309.58	
116 Rf	5.323	HD	316.86	
116				30.560
116 Rb	5.116	HD	267.68	
117 Rf	5.013	HD	317.52	
117				30.663
117 Rb	5.242	HD	313.09	
118 Rf	5.506	HD	281.1	
118				30.399
118 Rb	5.411	HD	336.78	
119 Rf	5.476	HD	292.32	
119				30.334
119 Rb	4.963	HD	292.55	
120 Rf	4.945	HD	281.73	

120		30.352
120 Rb	5.154 HD	321
121 Rf	4.707 HD	338.98
121		30.799
121 Rb	4.658 HD	320.9
122 Rf	7.013 HD	307.97
122		28.444
122 Rb	5.393 HD	303.9
123 Rf	5.294 HD	300.72
123		28.543
123 Rb	5.095 HD	312.04
124 Rf	5.231 HD	310.1
124		28.407
124 Rb	5.547 HD	312.79
125 Rf	5.638 HD	278.35
125		28.316
125 Rb	5.24 HD	215.03
126 Rf	4.711 HD	133.4
126		28.845
126 Rb	4.826 HD	213.65
127 Rf	5.399 HD	298.69
127		28.272
127 Rb	5.04 HD	284.84
128 Rf	4.293 HD	297.01
128		29.019
128 Rb	4.272 HD	307.18
129 Rf	4.724 HD	325.46
129		28.567
129 Rb	4.877 HD	295.77
130 Rf	4.977 HD	293.21
130		28.467
130 Rb	5.047 HD	322.77
131 Rf	5.047 HD	214.99
131		28.467
131 Rb	4.729 HD	277.85
132 Rf	4.974 HD	248.49
132		28.222
132 Rb	1.916 HD	313.39
133 Rf	4.647 HD	280.15
133		25.491
133 Rb	4.524 HD	307.02
134 Rf	4.971 HD	333.17
134		25.044
134 Rb	5.122 HD	276.41
135 Rf	4.277 HD	325.49
135		25.889
135 Rb	4.238 HD	240.94
136 Rf	5.293 HD	208.1
136		24.834
136 Rb	5.393 HD	258.2
137 Rf	4.342 HD	265.39
137		25.885

137 Rb	4.395 HD	247.74	
138 Rf	4.599 HD	267.42	
138			25.681
138 Rb	4.937 HD	288.48	
139 Rf	5.507 HD	327.85	
139			25.111
139 Rb	5.573 HD	318.11	
140 Rf	5.337 HD	302.53	
140			25.347
140 Rb	4.851 HD	282.12	
141 Rf	4.437 HD	280.15	
141			25.761
141 Rb	4.09 HD	321.49	
142 Rf	4.872 HD	290.45	
142			24.979
142 Rb	3.753 HD	295.64	
143 Rf	6.049 HD	195.7	
143			22.683
143 Rb	5.971 HD	194.46	
144 Rf	5.742 HD	273.23	
144			22.912
144 Rb	4.989 HD	285.66	
145 Rf	4.89 HD	227.2	
145			23.011
145 Rb	5.187 HD	128.05	
146 Rf	5.821 HD	125.23	
146			22.377
146 Rb	5.163 HD	259.68	
147 Rf	5.168 HD	242.06	
147			22.372
147 Rb	4.75 HD	282.22	
148 Rf	4.977 HD	277.23	
148			22.145
148 Rb	4.312 HD	284.12	
149 Rf	4.659 HD	278.71	
149			21.798
149 Rb	4.479 HD	277.1	
150 Rf	4.399 HD	313.35	
150			21.878
150 Rb	4.609 HD	324.8	
151 Rf	4.618 HD	314.57	
151			21.869
151 Rb	4.788 HD	328.84	
152 Rf	4.972 HD	315.65	
152			21.685
152 Rb	4.633 HD	285.99	
153 Rf	4.724 HD	339.14	
153			21.594
153 Rb	4.755 HD	317.55	
154 Rf	4.675 HD	311.29	
154			21.674
154 Rb	4.582 HD	283.23	

155 Rf	4.814	HD	297.93	
155				21.442
155 Rb	4.606	HD	232.64	
156 Rf	4.851	HD	232.97	
156				21.197
156 Rb	4.493	HD	286.65	
157 Rf	4.839	HD	332.09	
157				20.851
157 Rb	4.271	HD	278.58	
158 Rf	4.686	HD	320.54	
158				20.436
158 Rb	4.58	HD	260.86	
159 Rf	4.911	HD	289.96	
159				20.105
159 Rb	4.594	HD	288.02	
160 Rf	4.653	HD	276.77	
160				20.046
160 Rb	4.439	HD	285.1	
161 Rf	4.666	HD	249.87	
161				19.819
161 Rb	4.999	HD	279.36	
162 Rf	4.814	HD	299.57	
162				20.004
162 Rb	4.588	HD	286.02	
163 Rf	4.652	HD	302.16	
163				19.940
163 Rb	4.771	HD	290.29	
164 Rf	4.668	HD	301.64	
164				20.043
164 Rb	4.742	HD	306.07	
165 Rf	4.769	HD	316.17	
165				20.016
165 Rb	4.822	HD	305.38	
166 Rf	4.999	HD	314.47	
166				19.839
166 Rb	3.547	HD	294.09	
2B Rf	3.373	HD	266.31	
2B				20.013
2B Rb	1.895	HD	187.2	
414 Rf	6.937	HD	75.79	
414				14.971
End-Line				15.03
				-0.059 ACTUAL ERROR
		94230.310		TOTAL DISTANCE
	1/	-1597123.898		PRECISION
		0.211		MTS ALLOWABLE ERROR

# The NGS Data Sheet

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

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PROGRAM = datasheet95, VERSION = 8.12.1
1      National Geodetic Survey,  Retrieval Date = APRIL 12, 2017
AD8261 *****
AD8261 DESIGNATION - R 414
AD8261 PID - AD8261
AD8261 STATE/COUNTY- FL/HENDRY
AD8261 COUNTRY - US
AD8261 USGS QUAD - GOODNO (1973)
AD8261
AD8261 *CURRENT SURVEY CONTROL
AD8261
AD8261 * NAD 83(1986) POSITION- 26 46 06. (N) 081 15 52. (W) SCALED
AD8261 * NAVD 88 ORTHO HEIGHT - 4.187 (meters) 13.74 (feet) ADJUSTED
AD8261
AD8261 GEOID HEIGHT - -24.464 (meters) GEOID12B
AD8261 DYNAMIC HEIGHT - 4.181 (meters) 13.72 (feet) COMP
AD8261 MODELED GRAVITY - 979,106.5 (mgal) NAVD 88
AD8261
AD8261 VERT ORDER - FIRST CLASS II
AD8261
AD8261.The horizontal coordinates were scaled from a topographic map and have
AD8261.an estimated accuracy of +/- 6 seconds.
AD8261.
AD8261.The orthometric height was determined by differential leveling and
AD8261.adjusted by the NATIONAL GEODETIC SURVEY
AD8261.in September 1992.
AD8261
AD8261.Significant digits in the geoid height do not necessarily reflect accuracy.
AD8261.GEOID12B height accuracy estimate available here.
AD8261
AD8261.The dynamic height is computed by dividing the NAVD 88
AD8261.geopotential number by the normal gravity value computed on the
AD8261.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AD8261.degrees latitude (g = 980.6199 gals.).
AD8261
AD8261.The modeled gravity was interpolated from observed gravity values.
AD8261
AD8261; North East Units Estimated Accuracy
AD8261;SPC FL E - 269,760. 173,700. MT (+/- 180 meters Scaled)
AD8261
AD8261_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMK737608(NAD 83)
AD8261
AD8261 SUPERSEDED SURVEY CONTROL
AD8261
AD8261 NGVD 29 (09/01/92) 4.582 (m) 15.03 (f) ADJUSTED 1 2
AD8261
AD8261.Superseded values are not recommended for survey control.
AD8261
AD8261.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AD8261.See file dsdata.pdf to determine how the superseded data were derived.
AD8261

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AD8261\_MARKER: I = METAL ROD  
AD8261\_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)   
AD8261\_STAMPING: R 414 1992  
AD8261\_MARK LOGO: NGS  
AD8261\_PROJECTION: FLUSH  
AD8261\_MAGNETIC: I = MARKER IS A STEEL ROD  
AD8261\_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL  
AD8261\_SATELLITE: THE SITE LOCATION WAS REPORTED AS NOT SUITABLE FOR  
AD8261+SATELLITE: SATELLITE OBSERVATIONS - 1992  
AD8261\_ROD/PIPE-DEPTH: 4.9 meters

AD8261  
AD8261 HISTORY - Date Condition Report By  
AD8261 HISTORY - 1992 MONUMENTED NGS

AD8261

AD8261 STATION DESCRIPTION

AD8261

AD8261'DESCRIBED BY NATIONAL GEODETIC SURVEY 1992  
AD8261'17.3 KM (10.75 MI) EASTERLY ALONG STATE HIGHWAY 80 FROM THE COUNTY  
AD8261'COURTHOUSE IN LA BELLE, 14.1 M (46.3 FT) NORTH OF THE CENTERLINE OF  
AD8261'THE HIGHWAY, 5.7 M (18.7 FT) EAST OF AN UNDERGROUND CABLE WARNING  
AD8261'SIGN, 4.0 M (13.1 FT) SOUTHWEST OF A UTILITY POLE, 3.2 M (10.5 FT)  
AD8261'SOUTH OF A WITNESS POST AND FENCE, AND 1.5 M (4.9 FT) BELOW THE LEVEL  
AD8261'OF THE HIGHWAY. NOTE--ACCESS TO THE DATUM POINT IS THROUGH A 5-INCH  
AD8261'LOGO CAP.

\*\*\* retrieval complete.  
Elapsed Time = 00:00:03



<b>COUNTY:</b> Hendry		<b>PROJECT:</b> Well Sites		<b>DESIGNATION:</b> SITE5	
<b>SECTION</b> 17		<b>TOWNSHIP</b> 44 SOUTH		<b>RANGE</b> 31 EAST	
<b>GEOGRAPHIC INDEX OF QUAD:</b> Florida					
<b>Established by</b> ___ <b>Recovered by</b> <u>X</u> Pickett & Associates, Inc.			<b>NAME OF QUADRANGLE:</b> Felda NE		
<b>SURVEYOR:</b> Kyle Royer <b>DATE:</b> 2/20/2003			<b>FIELD BOOK:</b> 561-22 <b>PAGE:</b> 28-30, 66-86, 92-94		
<b>HORIZONTAL DATUM:</b> NAD 83/99 <b>ZONE:</b> EAST					
<b>VERTICAL DATUM:</b> NAVD 1988, NGVD 1929 (NGS superseded control), & NGVD 1929 (SFWMD previously published elevation)					
<b>CONTROL ACCURACY:</b> HORIZONTAL N/A <b>VERTICAL</b> 1 2 (3)					
<b>STATE PLANE COORDINATES</b> Feet		<b>X</b> 571714	<b>Y</b> 841590	<b>EL.</b> = 29.813' (NAVD 88) <b>EL.</b> = 31.103' (NGS NGVD 29) <b>EL.</b> = 31.035' (SFWMD NGVD 29)	
<b>LATITUDE:</b> 26°38'55.6" N		<b>LONGITUDE:</b> 81°15'30.8" W			
<b>DESCRIPTION</b>					
To Reach: From the intersection of U.S. 27 and S.R. 80, go West (11.65 Miles) to Lexington Parkway.					
Go South on Lexington Parkway (2.25 Miles) to the end of pavement and a dirt road on right. Turn right on dirt road and go West for (0.30 Miles) to a gate. At gate turn left and go (6.2 Miles) to the Station on the right.					
Station References: CRS05F is East 850' +/-					
PSTAC D is 40' +/- West					
"BM SITE 5" is 3.5' +/- West of witness post					

SKETCH

