

F.G.S. Level Book
Hardee, Osceola, Polk, Lake,
Orange, Sumter, and Seminole Co's.

Seminole County

P. 67-76

82-85 and 88-90

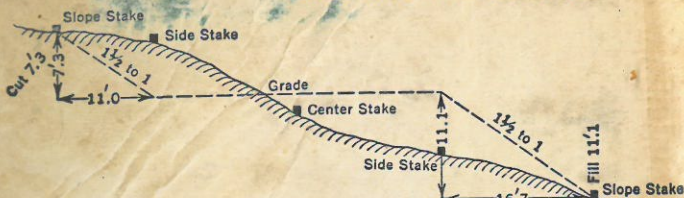
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1954

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DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING Roadway of any Width. Side Slopes $1\frac{1}{2}$ to 1.

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



Cut or Fill	Distance out from Side or Shoulder Stake										Cut or Fill
	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	40

1.75
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MIAMI • TALLAHASSEE • ORLANDO

Florida Geological
Survey
P.O. Drawer 631
Tallahassee, Florida

The paper in this book No. 373A
is made of 50% high grade rag stock
with a WATER RESISTING surface sizing.

3/15/54

LEON Co.

LAKE BRADFORD

HGS JR, JTB,

± R.O.V. OF FSGS

Test hole, 4" dia, bored with rig
of Fla. Geol. Surv. approx 12' N of
N. edge of LAKE BRADFORD Rd. at:
T1S, R1W, Sec. 10 N $\frac{1}{4}$, SW $\frac{1}{4}$, SE $\frac{1}{4}$.
Samples collected to depth of 45'
below LSD. After completing hole, about
four lengths of drill & the bit were lost
in the hole. The stratigraphic section
derived from samples is as follows:

0'-9.5' GRAY To BUFF FINE SILTY SANDS, ROUNDED,
Pleistocene in age. Non-calcareous.

9.5'-21 $\frac{1}{2}$ ' DENSE, TOUGH, SOAPY, WAXY, GREENISH-GRAY
CLAY, KAOLINITIC (TONGUE TEST POSITIVE); CONTAINS
APPROX 30% FINE WELL ROUNDED QUARTZ SAND
GRAINS. WHITE POWDERY LARGER GRAINS IN
LOWER PORTION. Non-calcareous.

21 $\frac{1}{2}$ '-29 $\frac{1}{2}$ ' BROWN STICKY ^{DENSE} SANDY CLAY, SCATTERED LARGE
WHITE POWDERY GRAINS, SAND APPROX 35%,
FINE GRAINED, WELL ROUNDED. Non-calcareous.

3/15/54 (2)

Leon Co.
HGS et al

29½'-34½' GRAY SANDY, STICKY CLAY. SAND WELL ROUNDED, FINE GRAINED, SCATTERED COARSE GRAINS. KAOLINITIC TONGUE TEST POSITIVE, HIGHLY CALCAREOUS. CLAY HEAVY & PLASTIC, MUCH WATER IN HOLE, SAMPLE AS MUD.

34½'-39½' LIGHT YELLOWISH SANDY CLAY, STICKY, HEAVY, PLASTIC, STRONGLY CALCAREOUS. SAMPLE AS MUD. VERY NOTICEABLE COLOR CHANGE FROM ABOVE WHEN DRILLING, & IN SAMPLE.

40'-44½' DRILL HIT BDEX. 4 LARGE PEBBLES COLLECTED. WHITE SANDY LWS. STRONGLY CALCAREOUS. NO MACRO-FOSSILS, FEW SCATTERED MICRO Molds NOTED BUT NOT IDENTIFIED — TAMPA LWS? SAND WELL ROUNDED, FINE, GTZ. ONE PEBBLE SLIGHTLY CALC, BLACK STAINED THROUGHOUT, W/ SOLUTION OPENINGS, BLACK PATCHES ON ONE OTHER PEBBLE NOTED AS WEATHERED SURFACE. HCl LIBERATES SLIGHTLY SULFUROUS ODOR (?)

Hole drilled AT FOOT OF SOUTH-FACING SCARP OF TALLAHASSEE HILLS SECTION. RED WEATHERED SANDY PHASE OF HAWTHORNE IMMEDIATELY NORTH OF HOLE. CLAYS ARE LOWER HAWTHORNE FM.



$$HI - FS = \text{elev}$$

$$\text{Elev} + BS = HI$$

Cutor
Fill

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J. S. Cullison - π

1.

W.A. Wisner - Rod

June 2, 1954

Level Check

Sta BS HI FS Elev

BM1 .89 10.89 10.00

TP1 7.57 10.19 8.27 2.62

BM1 .80 10.11 .11 err

BM1 3.10 13.10 10.00

TP1 8.43 19.28 2.25 10.85

TP2 5.42 19.44 5.26 14.02

TP3 1.45 12.34 7.55 11.89

BM1 2.30 10.04 .04 err

Hardee County
Well # 2732

Sta	BS	HI	FS	Elev
BM 132 RHP 1999	4.37	131.37	5.32	127.00
TP ₁	5.04	131.09	5.32	126.05
TP ₂	4.99	130.75	5.33	125.76
TP ₃	4.09	128.67	6.17	124.58
TP ₄	3.42	125.09	7.05	121.62
W-2732	8.42	124.25	9.21	115.83
TP ₅	6.90	128.89	2.56	121.99
TP ₆	5.40	130.69	3.65	125.24
TP ₇	4.70	130.42	4.92	125.72
TP ₈	4.86	131.28	4.00	126.42
BM			4.57	127.01

Elevation of W-2732
is 115.83 ± .01 on top
of concrete slab at
E. edge of pump.

Hardce County

Well # 2894

Sta	BS	HI	FS	Elev
BM-W46	5.95	83.33	2.90	77.38
TP ₁	7.50	87.93	2.90	80.43
TP ₂	7.25	92.64	2.54	85.39
TP ₃	4.65	93.70	3.59	89.05
TP ₄	4.44	92.68	5.46	88.24
TP ₅	4.67	93.84	3.51	89.17
W-2894	5.96	94.82	4.98	<u>88.86</u>
TP ₆	3.67	92.78	5.71	89.11
TP ₇	5.65	93.37	5.06	87.72
			3.95	89.42

Elevation of W-2894
is 88.86 ft. $\pm$.02
ground elevation

Osceola County

TBM Line #1

Sta	BS	HI	FS	Elev
BM D61	5.57	68.87		63.30
TP ₁	4.59	68.97	4.49	69.38
TP ₂	4.99	69.06	4.90	69.07
TP ₃	5.00	69.32	4.74	69.32
TP ₄	4.99	69.46	4.85	69.47
TP ₅	4.89	69.79	4.56	69.90
TP ₆	5.12	70.20	4.71	65.08
TP ₇	4.80	70.05	4.95	65.25
TP ₈	4.91	70.43	4.53	65.52
TP ₉	5.16	70.85	4.74	65.69
TP ₁₀	5.28	71.43	4.70	66.15
TP ₁₁	5.44	72.17	4.70	66.73
TP ₁₂	4.92	71.97	5.12	67.05
TP ₁₃	5.11	72.21	4.87	67.10
TP ₁₄	5.00	72.40	4.61	67.60
TP ₁₅	4.99	72.70	4.89	67.71

2. Mi N of D61 of D61 on S end of
E culvert under N bound ranch road

TBM #1	5.42	72.62	5.50	<u>67.20</u>
TP ₁₆	5.17	72.71	5.08	67.54
TP ₁₇	5.07	72.47	5.31	67.40
TP ₁₈	4.84	72.07	5.24	67.23
TP ₁₉	4.60	71.68	4.99	67.08
TP ₂₀	4.45	71.01	5.12	66.56
TP ₂₁	4.72	71.45	4.28	66.73
TP ₂₂	4.62	70.53	5.54	65.91
TP ₂₃	4.61	70.03	5.11	65.42
TP ₂₄	4.51	69.86	4.68	65.35
TP ₂₅	4.79	69.75	4.90	64.96
TP ₂₆	4.66	69.29	5.12	64.63
TP ₂₇	4.80	69.03	5.06	64.23
TP ₂₈	4.93	69.05	4.91	64.12
TP ₂₉	4.60	68.91	4.74	64.31
BM D61			5.59	63.32

Elev TBM #1 = 63.32 ± .02 ft

Osceola County
Well # 1411

Sta	BS	HI	FS	Elev
TBM #1	6.52	69.54		63.32
TP ₁	4.74	69.38	4.90	64.64
TP ₂	5.54	69.64	4.98	69.40
TP ₃	6.00	71.28	4.36	65.28
TP ₄	5.70	72.82	4.16	67.12
TP ₅	4.81	73.12	3.91	68.91
TP ₆	4.12	71.77	5.47	67.65
TP ₇	4.49	71.06	5.20	66.57
TP ₈	4.66	71.17	4.55	66.51
TP ₉	5.40	72.27	4.30	66.87
TP ₁₀	5.00	72.89	4.38	66.89 67.89 M
TP ₁₁	4.81	72.54	5.16	67.73
TP ₁₂	3.47	70.67	5.39	67.30
TP ₁₃	4.95	70.59	5.03	65.64
TP ₁₄	5.44	70.73	5.30	65.29
TP ₁₅	5.74	70.77	5.70	65.03

Sta BS HI FS Elev

TP₁₆ 4.69 70.33 5.13 65.64TP₁₇ 4.33 69.71 4.95 65.38TP₁₈ 5.89 70.32 5.28 64.43TP₁₉ 5.18 69.76 5.74 64.58TP₂₀ 4.56 69.73 4.59 65.17TP₂₁ 4.52 69.87 4.38 65.35TP₂₂ 5.05 71.04 3.88 ~~65.99~~ 65.21TP₂₃ 6.44 72.60 4.88 66.16TP₂₄ 4.04 72.26 4.38 68.22TP₂₅ 5.37 72.37 5.26 67.00TP₂₆ 5.07 73.15 4.29 68.08TP₂₇ 4.59 73.67 4.07 69.08W#1411 4.72 72.86 5.53 68.14TP₂₈ 5.27 73.82 4.31 68.55TP₂₉ 5.13 73.97 4.98 68.84TP₃₀ 4.41 73.31 5.07 68.90TP₃₁ 4.78 72.17 5.92 67.31TP₃₂ 4.34 70.19 6.32 65.85TP₃₃ 4.42 69.20 5.41 64.78TP₃₄ 4.85 69.08 4.97 64.23TP₃₅ 5.02 69.41 4.69 64.39TP₃₆ 5.74 70.64 4.51 64.90TP₃₇ 5.58 71.60 4.62 66.02TP₃₈ 4.78 71.95 4.43 67.17TP₃₉ 4.42 71.76 4.61 67.34TP₄₀ 5.19 72.64 4.31 67.45TP₄₁ 5.02 72.69 4.97 67.67TP₄₂ 4.69 72.67 4.71 67.98TP₄₃ 4.97 73.26 4.38 68.29TP₄₄ 5.01 73.55 4.72 68.54TP₄₅ 4.92 73.58 4.89 68.66TP₄₆ 4.37 72.96 4.99 68.59TP₄₇ 4.93 72.27 5.62 67.34TP₄₈ 4.04 71.00 5.31 66.96TP₄₉ 4.41 70.48 4.93 66.07TP₅₀ 4.27 69.23 5.52 64.96TBM#1 5.93 63.30

Over.

¹⁰ The elevation of TBM #1
was taken as 63.32 ft.

by mistake, in the
last line of elevation.

Using this incorrect
elev. W# 1411 was
found to be 68.14 ft.

$\pm .02$ this should be
corrected as follows.

$$\begin{array}{r} 67.20 \\ - 63.32 \\ \hline 3.88 \end{array}$$

$$\begin{array}{r} 68.14 \\ + 3.88 \\ \hline \end{array}$$

72.02 $\pm .02$ ft = elev.
of W# 1411

Polk County
Well # 2412

Sta	BS	HI	FS	Elev
BM V63	7.67	145.64		137.97
TP ₁	6.43	148.41	3.66	141.98
TP ₂	5.68	151.77	2.32	146.09
W-2412	4.74	152.27	4.24	<u>147.53</u>
TP ₃	2.69	148.13	6.83	145.44
TP ₄	3.99	145.70	6.92	141.71
BM V63			7.72	137.98

Elevation of W-2412 is
147.53 $\pm .01$ ft on
concrete floor of pump
house (Floor is approx.
4" above ground)

Polk County
Well #2128

Sta	BS	HI	FS	Elev
County Eng TBM	4.81	137.26		132.45
W-2128	3.74	137.26	3.74	<u>133.52</u>
TBM			4.81	132.45

Elevation of W-2128
is $133.52 \pm .00$ ft on
top of concrete pump
house floor slab.

Polk County
Well #2854

Sta	BS	HI	FS	Elev
FSGS Tra #50	5.99	199.99		194.00
TP ₁	6.70	209.54	2.10	197.89
TP ₂	8.51	210.15	2.95	201.64
TP ₃	11.67	221.70	0.12	210.03
TP ₄	8.69	229.58	.81	220.89
W-2854	3.32	229.36	3.54	<u>226.09</u>
TP ₅	3.46	221.49	11.33	218.03
TP ₆	0.22	210.37	11.34	210.15
TP ₇	2.86	209.18	9.05	201.32
TP ₈	2.69	200.58	6.29	197.89
FSGS Tra #50			6.58	194.00

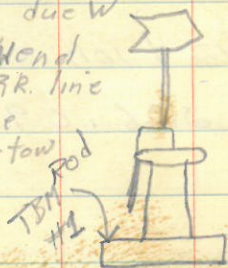
Elevation of W-2854
is $226.09 \pm .00$ ft.

Polk County

W-2425

Sta	BS	HI	FS	Elev
BM U-60	2.75	128.34	7.68	125.59
TP ₁	1.40	122.06	7.68	120.66
TP ₂	5.49	120.11	7.44	114.62
TP ₃	5.78	121.89	4.00	116.11
TP ₄	6.08	123.09	4.88	117.01
TBM #1	3.42	123.06	3.45	119.64
TP ₅	4.74	121.95	5.85	117.21
TP ₆	4.15	120.30 121.20	5.90 5.89	116.05 117.05
TP ₇	7.41	122.03 123.03	5.58	114.62 115.62
TP ₈	7.54	128.20 129.20	1.37	120.66 121.66
BM U-60			2.61	125.59 128.59

TBM #1 .8 mile due W
of W-2425. on N end
of Atlantic Coast RR line
switch on the N side
of Main St in Bartow



N ← → S

Polk County

W-2425

Sta	BS	HI	FS	Elev
TBM #1	4.35	123.99		119.64
TP ₁	3.00	119.35	7.64	116.35
TP ₂	5.78	120.85	4.28	115.07
TP ₃	5.70	121.05	5.50	115.35
TP ₄	2.80	119.22	4.63	116.42
TBM #2	2.25	114.88	6.59	112.63
TP ₅	3.09	112.54	5.43	109.45
TP ₆	3.18	105.52	10.20	102.34
W#2425	4.13	105.19	4.46	101.06
TP ₇	9.82	111.78	3.23	101.96
TP ₈	5.14	113.80	3.12	108.66
TP ₉	4.25	114.86	3.19	110.61
TP ₁₀	5.13	113.27	6.72	108.14
TP ₁₁	6.19	117.36	2.10	111.17
TP ₁₂	7.73	120.77	4.32	113.04
TBM #1			1.12	119.65

Elevation of W#2425 is 101.06 ± 0.1
ft. S. side of track

S. side of track
railroad
W
on
S.B.A.L.
Hwy
Bartow
Wales
Lake

Polk County
W # 2954

Sta	BS	HI	FS	Elev
BM T117				136.57
BM S117	5.93	140.56		134.63
N # 2954	3.78	140.49	3.85	<u>136.71</u>
BM S117			5.86	134.63

Well # 2954 has been destroyed but the elevation of the ground in the immediate area is 136.71 ft.

The ground is flat - part of the airfield.

Polk County
W # 946

Sta	BS	HI	FS	Elev
FSGS Tr #10	2.83	213.90		211.07
TP ₁	0.74	202.86	11.78	202.12
TP ₂	2.67	194.48	11.05	191.81
TP ₃	3.81	191.35	6.94	187.54
W # 946	3.26	191.14	3.47	<u>187.88</u>
TP ₄	7.05	194.27	3.92	187.32
TP ₅	11.85	205.09	1.03	193.29
TP ₆	10.92	215.98	.03	205.06
FSGS Tr #10			4.91	211.07

Elevation of W-946 is 187.88 ft on concrete floor of pump house

Polk County
Well # W-2856

elevation of W-2856 is 114.86'

Source of info. is the
head Engineer of VC Chemical
Corp.

Polk County
W# 3007

Elevation of W-3007 is
208.01 ft.

Source of info is the
head Engineer of Davison
Chemical Corp.

Polk County
Well # 2742

Elevation of W-2742 is 215.80 ft.

Source of info is the head
Engineer of Davison Chemical
Corp.

Lake County

Well No. 2320 + 2440

Sta BS HI FS Elev.

BM
C58-1934 4.10 71.30
6 67.198

TP 1 4.45 70.51 5.24 66.06

TP 2 8.93 76.21 3.23 67.28

TP 3 10.62 88.52 0.31 75.90

TP 4 8.72 94.52 0.72 85.80

TP 5 8.86 102.63 0.75 93.77

TP 6 9.51 111.96 0.18 102.45

TP 7 8.13 119.32 0.77 111.19

TP 8 4.27 120.01 3.58 115.74

Well #
2320 5.35 5.35 114.66* on South east side of center pipe of
steel water tower.

TP 9 6.02 120.68 114.66

TP 10 1.69 115.87 6.49 114.18

TP 11 3.35 107.52 11.70 104.17

TP 12 10.23 117.62 0.13 107.39

TP 13 7.21 124.76 0.07 117.55

Sta BS HI FS Elev.

TP 14 9.32 132.65 1.43 123.44³³

TP 15 6.17 137.60 1.22 131.43

TP 16 7.53 142.63 2.50 135.10

TP 17 6.79 147.73 1.69 140.94

TP 18 9.49 153.57 3.65 144.08

TP 19 0.50 146.48 7.59 145.98

TP 20 9.40 148.50 7.38 139.10

TP 21 10.65 158.65 0.50 148.00

TP 22 11.12 169.71 0.06 158.59

TP 23 8.87 178.25 0.33 169.38

TP 24 7.55 176.88 8.92 169.33

TP 25 0.10 173.18 3.80 173.08

TP 26 3.16 164.49 11.85 161.33

TP 27 6.68 170.83 0.34 164.15

TP 28 2.39 163.03 5.41 165.42

Well #

2440

* in the NW Side of the 12" well
pipe

TP 29 10.13 167.03 156.90

Error
+ .78

Sta.	BS	HI	FS	Elev.
TP30	4.27	164.65	6.65	160.38
TP31	12.00	166.96	9.69	154.96
TP32	7.14	173.83	0.27	166.69
TP33	5.26	171.72	7.37	166.46
TP34	0.31	160.20	11.83	159.89
TP35	1.45	149.92	11.73	148.47
TP36	3.72	141.96	11.68	138.24
TP37	6.95	148.52	0.39	141.57
TP38	4.23	143.39	9.36	139.16
TP39	0.85	136.24	8.00	135.39
TP40	1.25	129.90	7.59	128.65
TP41	0.78	120.35	10.33	119.57
TP42	3.66	116.43	7.58	112.77
TP43	3.08	117.45	2.08	114.37
TP44	5.54	115.57	7.42	110.03
Water Tower				
TP45			5.36	110.21

* Math error on other page +4.78

114.99

Elev. of City well 114.66

error accumulated over } 0.33
4 mile run

Sta.	BS	HI	FS	Elev.
TP45	2.86	117.52		114.66
TP46	0.36	106.61	11.27	106.25
TP47	0.44	97.01	10.04	96.57
TP48	0.19	85.61	11.59	85.42
TP49	2.10	76.26	11.45	74.16
TP50	3.78	70.40 70.00	9.64	66.62 66.22
B.M.				67.29 <u>66.89</u>
C58-1934			3.11	

~~67.20~~

~~66.89~~

67.29

31

67.20

.09

Elev. of Well # 2320 114.61 ± .05'

Elev. of well # 2440 161.47 ± .21'

Lake Co

Well # 1957

Sta	BS	HI	FS	Elev.
BM # M45 FGS.	3.19	99.73		96.54
TP ₁	2.23	97.80	4.16	95.57
TP ₂	2.01	95.94	3.87	93.93
TP ₃	2.67	91.26	7.35	88.59
TP ₄	2.12	87.06	6.32	84.94
TP ₅	4.56	86.70	4.92	82.14
Well # 1957			1.96	84.74

South edge of concret that cases
the two 2" pipes

TP₆

elev. taken
here.

TP₇

TP ₆	2.23	86.97		84.74
TP ₇	7.80	90.54	4.23	82.74
TP ₈	7.85	96.21	2.18	88.36
TP ₉	3.01	97.62	1.60	94.61
TP ₁₀	4.37	99.81	2.18	95.44
BM			3.28	96.53

96.54

96.53

error 0.01

Osceola Co.

Well # 1510

Sta	BS	HI	FS	Elev.
B M USGS 104 RC 1952	4.29	47.29		43.00
TP1	4.49	47.53	4.25	43.04
1510 Well #	4.53	47.47	4.59	42.94 well
B M USGS 104 RC 1952			4.48	42.99

X filed on the NW side of the pipe
about 10" below the elbow

Error: ⁰¹~~005~~

Lake Co.

Mt. Dora City Well # W-2927

Sta BS HI FS Elev

BM 47M

2.92 149.97 147.05

TP1 6.26 148.70 7.53 142.44

TP2 11.98 160.61 0.07 148.63

TP3 9.55 166.62 3.54 157.07

TP4 9.50 168.35 7.77 158.85

TP5 10.25 177.95 0.65 167.70

TP6 5.70 180.90 2.76 175.19

TP7 1.03 170.65 11.28 169.62

TP8 0.39 163.94 7.10 163.55

TP9 12.00 166.12 9.82 154.12

Well #

2927

1.67 164.45

SE Corner of concrete foundation for pump, below the shut off valve

Well #

W-2927

TP10 2.23 166.68 164.45

TP11 6.87 171.18 2.37 164.31

TP12 10.05 181.13 0.10 171.08

TP13 2.00 178.02 5.11 176.02

TP14 5.62 173.53 10.11 167.91

Sta BS HI FS Elev

TP14 1.32 165.16 9.71⁶⁹ 163.84

TP15 3.27 161.83 6.60 158.56

TP16 1.28 156.74 6.35 155.48

TP17 1.47 147.83 10.40 146.36

TP18 6.76 152.96 1.63 146.20

B.M.
47M

5.70 147.26

147.26

147.05

error

0.21' in 3 mi

Elev. ^{taken is} 10" above gr. level.

164.45

- .11

164.34' ± .11'

Lake Co., Heesburg

Well # 3012

Sta BS HI FS Elev.

BM-M10
Heesburg 9.56 76.14 66.58

TP1 6.46 82.32 0.28 75.86

Well #
3012 1.94 80.381.93 NE corner top of casing
base of elbow.Well #
3012 1.93 82.31 80.38

TP2 0.36 76.26 6.41 75.90

BM-M10 9.65 66.61

Elev. 80.36 $\pm$.02 66.58
.03

Void Well # 2948

Sta BS HI FS Elev.

BM 557
Whitney 2.78 84.48 81.70

5.95 87.96 2.47 82.01

11.38 99.01 0.33 87.63

6.82 105.80 0.03 98.98

Sta BS HI FS Elev.

2.32 105.07 3.05 102.75 on gr.

err 2.41 102.15 5.38 99.74

8.05 108.40 1.80 100.35 turn

4.29 110.86 1.83 106.57

2.95 107.62 6.19 104.67 post

5.43 112.38 0.67 106.95

Well #
2948 1.41 109.35 4.44 107.94

1.51 99.27 1.59 97.76

0.43 88.23 1.47 87.80 error

Void 6.30 87.17 7.35 80.87 Void

7.40 90.07 4.50 82.67

3.40 87.02 6.45 83.62

6.13 80.89

4.57 112.51 107.94

5.07 109.77 7.81 104.70 post

2.67 103.22 9.22 100.55 turn

6.50 106.67 3.05 100.17

Sta	BS	HI	FS	Elev.
	0.62	103.20	4.09	102.58
	0.15	91.94	11.41	91.79
	2.33	85.57	8.70	83.24
			2.62	82.95
				-81.70

Void - Reshot one way, the correct data for this well can be found 3 pages over in this book on page 41

Sta	BS	HI	FS	Elev.
BM-M10				
Keesburg	6.77	73.35		66.58
TP1	3.95	67.21	10.09	63.26
TP2				7.24 59.97
Well #	(Base of the turning valve)			
2662			8.10	59.11
Well #				
2662	7.37	66.48	7.37	59.11
TP3	6.48	71.92	1.04	65.44
TP4	8.59	80.08	0.43	71.49
TP5	6.51	86.07	0.52	79.56
TP6	2.25	78.37	0.95	76.12
TP7	9.22	87.57	0.02	78.35
TP8	5.46	92.01	1.02	86.55
Well #				
2723	0		5.89	86.12

Big Pine

#93

5.95 to 121

#124

Gr. elev.

cement floor 3.43 below Gr. E.
casing has been cut off below the ground

TP9	11.52	102.91	0.62	91.39
TP10	10.46	113.04	0.33	102.58
TP11	8.60	118.48	3.16	109.88

Sta BS HI FS Elev.

Well #

2156

5.97 112.51
 Taken at Gr. level on E side of pump
 the bottom of the pump is .30' above this elev.

~~2.17 66.4~~

~~66.4 119.15~~

~~0.40 117.38 117 116.98~~

~~0.31 106.12 11.57 105.81~~

~~0.91 96.43 10.60 95.52~~

~~4.92 11.77~~

~~5.51 0.21~~

~~1.30 11.32~~

~~3.80 7.93~~

~~4.59 4.80~~

BM

4.82

Redone on next
 Page

Sta BS HI FS Elev

Well #

2156

2.17 114.68 112.51

TP12 0.40 ^{108.44}~~108.87~~ 6.64 108.04

TP13 0.31 97.18 11.57 96.87

TP14 0.91 87.49 10.60 86.58

TP15 4.92 80.64 11.77 75.72

TP16 5.51 85.94 0.21 80.43

TP17 1.30 75.92 11.32 74.62

TP18 3.80 71.79 7.93 67.99

TP19 4.59 71.58 4.80 66.99

BM 4.82 66.76

66.58
 .18

Elev. W-2662 = 59.02' ± .09'

W-2723 = 86.03' ± .09'

W-2156 = 112.42' ± .09'

Sta	BS	HT	FS	Elev
TBM				
	10.43	90.56		80.13 ±1
	11.84	101.52	0.68	89.88
	10.57	111.88	0.41	101.31
	8.43	120.07	0.24	111.64
	0.53	112.55		101.52
	5.75	117.53	0.27	111.78
	1.27	107.18	1.72	105.81
	0.82	96.56	1.34	95.74
	1.95	86.92	1.05	84.97
	0.71	76.42	1.21	75.71
	11.20	79.42	8.80	68.22
	3.68	82.33	0.77	78.65
	1.60	72.40	11.53	70.80
	4.82	68.20	9.02	63.38
	4.13	68.43	3.30	64.30
	5.51	68.76	5.18	63.25
	4.16	67.45	5.47	63.29

Sta BS HI FS Elev.

6.72 68.41 5.76 61.49

11.76 79.17 1.00 67.41

1.39 75.99 4.57 74.60

1.45 68.46 8.98 67.01

7.24 69.65 6.05 62.41

8.35 78.08 0.00 69.65

3.90 74.18 7.80 70.20

4.99 73.27 5.82 68.28

5.45 76.62 2.10 71.17

1.86 67.18 11.30 65.32

10.94 78.12 0.00 67.18

3.79 79.58 2.35 75.77

11.90 67.66

Located a BM closer to
the well.

1.00 St.
K. 1On concrete
floor54.20
Dept Mkt.

Lake Co., Leesburg
Well # 3087

Sta	BS	HI	FS	Elev
BM # 12 SRD Ricciola Rd.	6.09	69.24		63.15
TP ₁	11.76	79.74	1.26	67.98
TP ₂	1.39	76.56	4.57	75.17
TP ₃	1.45	69.03	8.98	67.58
TP ₄	7.24	70.22	6.05	62.98
TP ₅	8.35	78.57	0.00	70.22
TP ₆	3.90	74.67	7.80	70.77
Well # 3087	4.95	73.80	5.82	68.85
TP ₇	7.04	78.17	2.67	71.13
TP ₈	0.12	68.03	10.26	67.91
TP ₉	5.00	67.98	5.05	62.98
TP ₁₀	10.05	76.32	1.71	66.27
TP ₁₁	3.60	79.16	0.76	75.56
TP ₁₂	1.12	69.18	11.10	68.06
BM # 12			5.97	63.21
				-63.15

Elev. of well 68.82 ± .03 on concrete
Floor next to the casing.

Lake Co., Leesburg
Well # 2948

Sta	BS	HI	FS	Elev
BM-557 Whitney	2.15	83.85	81	81.70
TP ₁	8.11	91.60	0.36	83.49
TP ₂	10.54	102.07	0.07	91.53
TP ₃	4.87	106.28	0.66	101.41
TP ₄	2.76	101.90	7.14	99.14
TP ₅	10.26	107.82	4.34	97.56
TP ₆	4.34	109.80	2.36	105.46
TP ₇	2.95	106.57	6.18	103.62
TP ₈	5.73	111.33	0.67	105.90
Well # 2948	4.57	111.44	4.44	106.89
TP ₉	5.07	108.72	7.81	103.65
TP ₁₀	2.67	102.17	9.22	99.50
TP ₁₁	6.50	105.62	3.05	99.12
TP ₁₂	0.62	102.15	4.09	101.53
TP ₁₃	0.15	90.89	11.41	90.74
TP ₁₄	2.33	84.52	8.70	82.19
BM			2.62	81.90
Elev. 106.79 ± .10'				81.70
				.20

Lake Co. Clermont

City Wells 2636 + 1893

Sta	BS	HT	FS	Elev	
SRD-BM	3.39	199.36	5.60	195.97	error
Well #					
2636	6.38	200.14	5.60	193.76	interch
TP ₁	0.47	189.72	10.89	189.25	3
TP ₂	9.62	199.23	0.11	189.61	
Well					Well casing
1893	5.54	197.70	7.07	192.16	2.71' above G
TP ₃	2.19	197.29	2.60	195.10	
TP ₄	0.39	186.29	11.39	185.90	
BM			11.13	175.16	
	10.89				
	- .47				error + 20.84
	10.42				
	<u>x 2</u>				196.00
	20.84				195.97
					<u>.03</u>

Elev. of W-#2636 193.75 ± .02 top
of cement floor at S side of door
in E wall of pump house.

Elev. of W#1893 Ground Elev. 189.44 ± .02

Elev. atop casing 192.15 ± .02

Lake Co. Groveland

Well # 2983

Sta.	BS	HI	FS	Elev.
BM opp Milepost 52.	6.42	111.72		
	6.37	111.67		105.3
TP ₁	6.19	114.57	1.40	110.32 ← Reran erro
TP ₂	1.70	111.28	6.99	109.58
W-2983	5.42	111.32	5.38	105.90
TP ₃	6.58	114.15	1.75	109.57
TP ₄	1.77	112.15	5.77	110.38
BM		6.77	105.38	$-.06 = 105.32$
			105.30	

elev. of floor of 105.83 ± .01

pump house at

the S. corner
on the outside.

app. 3' above ground.

Reran back shot to BM +
Fore shot to TP₁.

Lake Co., Tavares

Well # 1969

Sta	BS	HI	FS	Elev
BM Milepost 52.5				
Seaba. RR	9.61	84.21		74.60
TP ₁	9.31	92.48	1.04	83.14 ⁷
TP ₂	7.65	99.60	.53	91.95
TP ₃	.09	92.22	7.47	92.13
TP ₄	1.61	82.16	11.67	80.55
TP ₅	7.03	81.93	7.26	74.90
TP ₆	8.84	82.23	8.54	73.39
Well # 1969	4.91	82.27	4.87	77.36
TP ₇	8.39	81.77	8.89	73.38
TP ₈	7.29	8 ² 2.22	6.84	7 ⁴ 3.93
TP ₉	11.94	9 ² 5.51	1.65	8 ⁰ 2.57
TP ₁₀	8.02	1 ⁰⁰ 9.19	.34	92.17
TP ₁₁	.56	9 ² 5.54	8.21	91.98
TP ₁₂	1.05	8 ⁴ 2.25	9.34	83.20
BM			9.59	74.66

Elev. taken on concrete floor

in center of doorway in S. side
of pump house. ~~77.36 ± .04~~
77.33 ± .03

Lake Co., Clermont

Well# 2214

Sta	BS	HI	FS	Elev.
BM-Mile				
Post 40 ACLR	9.34	143.34		134.0
TP ₁	10.37	146.56	7.15	136.19
TP ₂	10.81	157.33	0.04	146.52
TP ₃	11.04	168.37	0.00	157.33
TP ₄	11.76	179.99	0.14	168.23
TP ₅	11.03	190.53	0.49	179.50
TP ₆	10.92	201.04	0.41	190.12
TP ₇	9.91	210.73	0.22	200.82
TP ₈	11.33	221.27	0.79	209.94
TP ₉	10.84	231.42	0.69	220.58
TP ₁₀	0.74	221.16	11.00	220.42
TP ₁₁	7.00	219.77	8.39	212.77
Well #				
2214	3.77	220.14	3.40	216.37
TP ₁₂	8.41	221.18	7.37	212.77
TP ₁₃	11.17	231.60	0.75	220.43
TP ₁₄	0.62	221.24	10.98	220.62
TP ₁₅	0.76	210.77	11.23	210.01

Sta	BS	HI	FS	Elev.
TP ₁₆	0.22	201.11	9.88	200.89
TP ₁₇	0.37	190.56	10.92	190.19
TP ₁₈	0.42	180.01	10.97	179.59
TP ₁₉	0.11	168.45	11.67	168.34
TP ₂₀	0.15	157.60	10.99	157.46
TP ₂₁	0.05	146.71	10.95	146.66
TP ₂₂	7.96	144.29	10.38	136.33
BM			10.15	134.14

134.00

error .14

Elev. of ^{NE} corner of concrete
mount for pump. 216.30 ± .07'

48

Orange Co. Tangerine

Well # 762

St.	BS	HI	FS	Elev.
	1.56	151.44		149.88
	8.21	159.16	.49	150.95
	11.42	163.84	6.74	152.42
	.08	155.82	8.10	155.74
	.24	144.33	11.73	144.09
	.23	133.42	11.14	133.19
	.41	122.87	10.96	122.46
	.39	111.67	11.59	111.28
	5.63	107.05	10.25	101.42
	11.30	118.15	.20	106.85
	11.62	129.60	.17	117.98
	10.3 ³ 39	139.89	.10	129.50
	.55	130.99	9.45	130.44
	.16	120.86	10.29	120.70
	1.68	111.03	11.51	109.35
	3.05	105.82	8.26	102.77
	5.00	105.76	5.06	100.76

49

Richard Herron Surveyor
Roy Staton Rod Man
on this well

St.	BS	HI	FS	Elev.
	7.44	106.17	7.03	<u>98.73</u>
	6.14	107.72	4.59	101.58
	10.41	117.95	.18	107.54
	7.52	125.24	.23	117.72
	8.39	129.26	4.37	120.87
	7.47	134.31	2.42	126.84
	7.35	141.01	.65	133.66
	6.96	136.70	11.27	129.74
	.10	134.30	2.50	134.20
	6.97	140.43	.84	133.46
	10.68	150.25	.86	139.57
	11.56	161.68	.13	150.12
	.23	158.41	3.50	158.18
	6.90	159.52	5.79	152.62
	.15	151.08	8.59	150.93
			1.56	149.52
	149.88 149.52 36	Elev.	98.55 ± .18'	

Orange Co. Windimere Well # 3032

Well #

3032

Sta. BS HI FS Elev.

BM # 0.45 152.22 151.77

TP1 2.40 144.22 10.40 141.82

TP2 0.20 136.84 7.58 136.64

TP3 0.64 126.17 11.31 125.53

TP4 0.85 116.11 10.91 115.26

TP5 11.21 119.61 7.77 108.34

TP6 8.50 128.01 0.10 119.51

TP7 0.60 111.13 116.88

TP8 10.37 1.51

TP9 4.93 0.00

TP10 0.03 10.50

TP11 4.08 9.92

TP12 4.17 108.08 11.51 103.91

TP13 6.40 110.51 3.97 104.11

TP14 4.07 108.11 6.47 104.04

TP15 4.27 108.40 3.98 104.13

TP16 8.38 112.80 3.98 104.42

TP17 5.43 111.77 6.48 106.32

BS HI FS Elev

TP18 2.05 110.14 3.68 108.09

TP19 7.02 111.98 5.18 104.96

TP20 4.85 109.43 7.40 104.58

TP21 9.08 113.44 5.07 104.36

TP22 7.64 120.93 0.15 113.29

TP23 3.40 115.49 8.84 112.09

TP24 3.33 115.64 4.18 111.31

TP25 5.36 118.38 2.62 113.02

TP26 3.89 119.09 3.18 115.20

TP27 2.34 118.15 3.28 115.81

TP28 3.59 113.12 8.62 109.53

Well # 3032 4.32 113.08 4.36 108.76

TP29 8.65 118.18 3.55 109.53

TP30 3.08 118.89 2.37 115.81

TP31 3.18 118.45 3.62 115.27

TP32 3.00 116.11 5.34 113.11

TP33 4.14 115.52 4.73 111.38

TP34 8.17 120.29 3.40 112.12

TP35 0.06 5.10 112.80 7.55 112.74

TP36 5.10 108.85 9.05 103.75

Void reshot

3' high
yellow
redwhite
sandcurve
sand
& rd.TBM
SAVATER
10872

HAVE

curve

curve

curve

B. Cam
on C. floor

Dr. Gate

calibert

stake
curve
M. Rdcurve
stake

S. curve

Hill

B. Cam

Pole

Pole

Palm

Drill

Hill

Pump

Gas

on C. floor
of pump

Pump

Hill

Sta	BS	HI	FS	Elev.
TP 37	7.28	111.36	4.77	104.08
TP 38	5.16	109.62	6.90	104.46
TP 39	3.80	111.39	2.03	107.59
TP 40	6.44	112.26	5.57	105.82
TP 41	4.03	107.94	8.35	103.91
TP 42	4.46	108.05	4.35	103.59
TP 43	6.44	109.80	4.69	103.36
TP 44	4.02	107.42	6.40	103.40
TP 45	10.97	114.17	4.22	103.20
TP 46	9.57	119.71	4.03	110.14
TP 47	10.15	129.80	0.06	119.65
TP 48	0.90	125.77	4.93	124.87
TP 49	1.52	116.34	10.95	114.82
TP 50	10.92	126.64	0.62	115.72
TP 51	0.21	118.54	8.31	^{118.33} 124.95
TP 52	8.44	115.61	11.37	107.17
TP 53	6.56	121.33	0.84	114.77
TP 54	9.68	130.96	0.05	121.28
TP 55	8.25	138.41	0.80	130.16

Sta	BS	HI	FS	Elev
TP 56	7.87	144.07	2.21	136.20
TP 57	10.21	151.64	2.64	141.43
BM # TP 58 UE 66			0.22	151.42
	108.76			<u>151.77</u>
	^{.18} 108.94' ± .18'			.35

Elev. taken in the center of the doorway on the concrete floor of the pump house.

Reshot of TP 7 thru TP 12

2.19	119.07		116.88
5.74	116.21	8.60	110.47
10.88	126.64	4.5	115.76
5.33	130.98	.99	125.65
1.70	127.85	4.83	126.15
2.08	122.44	7.49	120.36
2.12	116.06	8.50	113.94
4.87	115.06	5.87	110.19
		11.15	103.91

Sta	BS	HI	FS	Elev
B.M. Killarney				
TP ₁	2.49	108.09		105.6
TP ₂	0.96	98.20	10.85	97.24
TP ₃	0.94	87.15	11.99	86.21
TP ₄	9.18	88.86	7.47	79.68
TP ₅	.01	82.63	6.24	82.62
TP ₆	8.83	85.37	6.09	76.54
TP ₇	7.00	91.96	0.41	84.96
TP ₈	5.14	94.60	2.50	89.46
TP ₉	5.48	97.56	2.52	92.08
TP ₁₀	9.27	106.45	0.38	97.18
TP ₁₁	6.00	112.17	0.28	106.17
TP ₁₂	0.88	107.05	6.00	106.17
TP ₁₃	0.04	98.99	8.10	98.95
TP ₁₄	1.39	90.94	9.44	89.55
TP ₁₅	0.48	81.16	10.26	80.68
TP ₁₆	6.49	83.72	3.93	77.23
TP ₁₇	5.18	83.71	5.19	78.53
TP ₁₈	1.62	80.46	4.87	78.84

Sta	BS	HI	FS	Elev
TP ₁₈	2.79	79.52	3.73	76.73
TP ₁₉	11.35	89.09	1.78	77.74
TP ₂₀	10.59	99.25	0.43	88.66
TP ₂₁	10.78	109.71	0.32	98.93
TP ₂₂	9.30	718.41	0.60	109.11
TP ₂₃	0.77	108.18	11.00	107.41
TP ₂₄	0.89	97.14	11.93	96.25
TP ₂₅	0.58	86.12	11.60	85.54
TP ₂₆	4.77	80.41	10.48	75.64
TP ₂₇	3.97	79.25	5.13	75.28
TP ₂₈	7.03	80.80	5.48	73.77
TP ₂₉	6.24	89.77	5.27	83.53
TP ₃₀	3.09	85.07	7.79	81.98
TP ₃₁	4.37	85.76	3.68	81.39
TP ₃₂	5.05	85.56	5.25	80.51
TP ₃₃	5.29	86.64	4.21	81.35
TP ₃₄	4.17	86.81	4.00	82.64
TP ₃₅	6.00	86.40	6.41	80.40
TP ₃₆	9.23	88.37	7.26	79.14

Sta	BS	HI	FS	Elev
TP37	6.82	93.80	1.39	86.98
TP38	2.35	86.97	9.18	84.62
TP39	3.65	87.03	3.59	83.38
Well # 2097			5.09	81.94
To make up for error in calculations				8.00
Well TP	5.47	79.41		73.94
TP40	4.45	79.83	4.03	75.38
TP41	9.20	85.83	3.20	76.63
TP42	1.40	80.40	6.83	79.00
TP43	7.15	78.36	9.19	71.21
TP44	6.41	78.85	5.92	72.44
TP45	3.98	78.67	4.16	74.69
TP46	4.20	77.61	5.26	73.41
TP47	5.64	78.19	5.06	72.55
TP48	3.47	76.89	4.77	73.42
TP49	7.37	81.56	2.70	74.19
TP50	5.29	80.80	6.05	75.51
TP51	5.90	79.66	7.04	73.76
TP52	5.17	80.42	4.41	75.25

Sta	BS	HI	FS	Elev
TP53	10.07	85.70	4.79	75.63
TP54	10.82	96.37	0.15	85.55
TP55	10.80	107.06	0.11	96.26
TP56	5.24	110.95	1.35	105.71
TP57	10.72	118.16	3.51	107.44
TP58	1.55	110.71	9.00	109.16
TP59	0.16	99.16	11.71	99.00
TP60	0.14	88.89	10.41	88.75
TP61	1.77	79.57	11.09	77.80
TP62	8.53	80.32	2.78	76.79
TP63	4.10	83.50	0.92	79.40
TP64	4.81	83.56	4.75	78.75
TP65	2.90	80.37	6.09	77.47
TP66	5.90	85.44	0.83	79.54
TP67	8.98	89.86	4.56	80.88
TP68	9.45	99.31	0.00	89.86
TP69	8.00	107.25	0.06	99.25
TP70	6.52	113.00	0.77	106.48
TP71	1.65	110.03	4.62	108.38

Sta BS HI FS Elev.

TP72 1.60 103.93 7.70 102.33

TP73 0.45 98.05 6.33 97.60

TP74 2.58 95.08 5.55 92.50

TP75 2.23 92.09 5.22 89.86

TP76 0.30 85.57 6.82 85.27

TP77 6.09 82.93 8.73 76.84

TP78 6.16 89.09 0.00 82.93

TP79 6.68 86.67 9.10 79.99

TP80 11.98 98.45 0.20 86.47

TP81 11.21 108.76 0.90 97.55

BM 2.85 105.91

105.60
3'

73.94

+1.16
74.10' Elev. of

A large hexagonal nut that connects the 6" pipe to the 8" pipe. Gr. lev. 73.50 ± 0.16

Lake Co. S. of Clermont

Sta BS HI FS Elev

BM # 1953
32 EEB 4.12 119.85 115.73

TP1 3.95 119.07 4.73 115.12

TP2 5.52 120.68 3.91 115.16

TP3 4.77 120.38 5.07 115.61

TP4 4.50 120.08 4.80 115.58

TP5 4.32 121.60 2.80 117.28

TP6 4.97 123.14 3.43 118.17

TP7 7.04 128.11 2.07 121.07

TP8 11.30 137.44 1.97 126.14

TP9 9.07 146.51 0.00 137.44

TP10 10.57 156.66 0.42 146.09

TP11 0.10 149.74 7.02 149.64

TP12 1.26 140.22 10.78 138.94

TP13 3.50 137.12 6.90 133.32

TP14 5.07 138.54 3.65 133.47

TP15 5.74 141.71 2.57 135.97

TP16 6.21 145.82 2.10 139.61

TP17 3.44 146.26 3.00 142.82

Sta	BS	HI	FS	Elev.
Well # 3107	7.77	146.07	7.96	<u>138.30</u>
TP18	2.45	145.29	3.23	142.84
TP19	2.43	141.93	5.79	139.50
TP20	2.73	138.66	6.00	135.93
TP21	3.57	136.99	5.24	133.42
TP22	8.50	141.74	3.75	133.24
TP23	10.29	149.01	3.02	138.72
TP24	7.77	156.74	0.04	148.97
TP25	0.93	146.89	10.78	145.96
TP26	0.20	137.60	9.49	137.40
TP27	2.80	128.90	11.50	126.10
TP28	2.61	123.68	7.83	121.07
TP29	4.39	122.79	5.28	118.40
TP30	2.75	120.36	5.18	117.61
TP31	4.77	120.68	4.45	115.91
TP32	4.99	120.95	4.72	115.96
TP33	4.00	119.52	5.43	115.52
TP34	4.77	120.18	4.11	115.41
BM			4.15	116.03
Elev. 138.45' $\pm$.15'				<u>115.75</u> .30

Elev. taken in center of door of pump house on the concrete floor.

Lake Co. So. of Clermont

Hi-Acre. Well # 3072

Sta	BS	HI	FS	Elev.
SRD-BM # 42	0.51	115.09		114.58
TP1	4.08	108.35	10.82	104.27
TP2	5.65	111.97	2.03	106.32
Well	3.44	111.98	3.43	<u>108.54</u>
TP3	2.00	108.32	5.66	106.32
TP4	10.72	114.97	4.07	104.25
BM			0.41	114.56
				<u>114.58</u> .02

108.53' $\pm$.01'

Elev. taken at the top of the concrete floor of the pump house on the West side.

Lake Co., Okahumpka

Well # 2646

Sta	BS	HI	FS	Elev.	
BM-SRD # 78	0.89	94.01		93.12	
TP1	2.58 8.56	95.76	6.81	87.20	TBM
TP2	3.26	91.82	7.20	88.56	
Well	2.08	91.95	1.95	89.87	
TP3	6.88	95.48	3.35	88.60	
TP4	7.35	94.56	8.27	87.21	
BM			1.43	93.13	

93.12

.01

89.87' ± .01'

Gr. level = 89.00' ± .2'

↓ Elev. taken at top of
casing

Sumpter Co., W. of Okahumpka

Well # 2539

Sta	BS	HI	FS	Elev.	
SRD-BM # 78	0.89	94.01		93.12	
TP1	2.58	89.78	6.81	87.20	TBM
TP2	4.70	93.85	0.63	89.15	
TP3	0.27	89.53	4.59	89.26	
TP4	3.35	81.73	11.15	78.38	
TP5	7.65	89.06	0.32	81.41	
TP6	5.00	90.85	3.21	85.85	
TP7	10.76	94.89	6.72	84.13	
TP8	6.74	100.92	0.71	94.18	
TP9	6.98	98.55	11.35	89.57	
TP10	4.40	93.73	7.22	89.33	
TP11	2.50	93.74	2.49	91.24	
TP12	1.24	91.23	3.75	89.99	
TP13	7.40	93.97	4.66	86.57	
TP14	3.67	92.36	5.28	88.69	
TP15	8.83	95.60	5.59	86.77	
TP16	10.37	105.40	0.57	95.03	

Sta	BS	HI	FS	Elev.
TP17	2.12	100.08	7.44	97.96
TP18	5.48	94.83	10.73	89.35
TP19	5.67	98.97	1.53	93.30
TP20	7.77	94.74	12.00	86.97
TP21	6.50	93.76	7.48	87.26
TP22	4.84	94.32	4.28	89.48
TP23	4.91	93.61	5.62	88.70
TP24	5.54	92.93	6.22	87.39
TP25	5.05	94.21	3.77	89.16
Well # 25.39	2.94	93.55	3.60	90.61
TP26	4.19	93.56	4.18	89.37
TP27	6.18	93.53	6.21	87.35
TP28	5.64	94.32	4.85	88.68
TP29	4.10	93.54	4.88	89.44
TP30	6.33	93.74	6.13	87.41
TP31	5.35	92.33	6.76	86.98
TP32	6.90	99.22	0.01	92.32
TP33	5.35	94.57	10.00	89.22
TP34	9.20	100.35	3.42	91.15

Sta	BS	HI	FS	Elev.
TP35	7.50	105.70	2.15	98.20
TP36	0.89	97.98	8.61	97.09
TP37	6.88	95.79	9.07	88.91
TP38	5.89	92.25	9.43	86.36
TP39	4.44	93.25	3.44	88.81
TP40	2.46	91.43	4.28	88.97
TP41	7.92	96.28	3.07	88.36
TP42	4.17	93.29	7.16	89.12
TP43	2.39	93.76	1.92	91.37
TP44	7.50	97.23	4.03	89.73
TP45	11.25	101.28	7.20	90.03
TP46	1.13	95.78	6.63	94.65
TP47	6.73	91.33	11.18	84.60
TP48	3.68	90.01	5.00	86.33
TP49	0.30	82.22	8.09	81.92
TP50	11.14	90.06	3.30	78.92
TP51	4.54	94.38	0.22	89.84
TP52	0.62	90.37	4.63	89.75
TP53	7.35	95.15	2.57	87.80
SRD-BM #78			1.43	93.72
				93.12
				1.60



is 90.31' ± .30'
- 57'
90.74' ± .30'

Elev. of well #
90.61
90.31

Gr level 25

Gr.

Sumter, Wildwood

Wells # 2688 + 2645

Sta	BS	HI	FS	Eleu.
BM D-57	2.10	65.79		63.689
TP1	5.52	67.93	3.38	62.41
Well # 2688	2.27	67.89	2.31	65.62
Well # 2645	5.27	67.81	5.35	62.54
TP2	3.27	65.66	5.42	62.39
BM, D-57			1.98	63.68
				63.69

$$W-2688 = 65.62' \pm .01'$$

$$W-2645 = 62.54' \pm .01'$$

Eleu. used 63.689

BM should be 63.389
+3

Seminole Co., Fla

Sta	BS	HI	FS	Eleu.
BM # AV 12 Altamonte	2.85	93.88		91.031
TP1	3.32	93.09	4.11	89.77
TP2	4.43	93.11	4.41	88.68
TP3	5.99	94.81	4.29	88.82
TP4	5.79	99.47	1.13	93.68
TP5	0.06	92.27	7.25	92.21
TP6	3.79	85.39	10.67	81.60
TP7	7.21	88.84	3.76	81.63
TP8	6.51	91.86	3.49	85.35
TP9	1.43	86.11	7.18	84.68
TP10	8.09	89.02	5.18	80.93
TP11	7.50	96.43	0.09	88.93
TP12	0.21	86.08	10.56	85.87
TP13	0.57	77.55	9.10	76.98
TP14	9.39	82.89	4.05	73.50
TP15	7.19	90.06	0.02	82.87
TP16	3.26	84.86	8.46	81.60

84.56

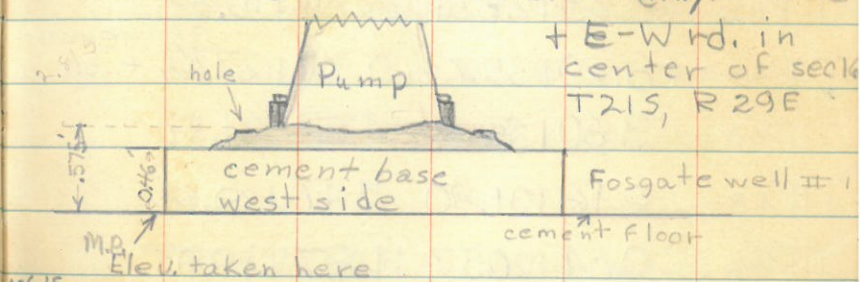
Sta	BS	HI	FS	Elev.
TP17	2.57	83.15	4.28	80.58
TP18	2.19	78.48	6.86	76.29
TP19	0.38	68.80	10.06	68.42
TP20	8.87	70.95	6.72	62.03
TP21	10.85	81.33	0.47	70.48
TP22	11.24	92.43	0.14	81.19
TP23	7.45	99.88	0.00	92.43
TP24	3.98	99.53	4.33	95.55
TP25	5.37	100.02	4.88	94.65
Well #1377	3.03	99.66	3.39	96.63
USGS 397	6.21	100.86	5.01	94.65
TP26	4.70	99.88	5.68	95.18
TP27	6.84	100.44	6.28	93.60
TP28	7.83	104.06	4.21	96.23
TP29	4.99	103.38		
TP30	6.57	105.95	4.68	99.38
TP31	9.37	106.18	6.57	96.81
Well #1377	5.65	111.76	0.07	106.11
TP32	4.80	112.05	4.51	107.25

TBM #1 RR spike in a power pole between Forest City + Altamonte Springs at intersection of Hwy. 436 + rd. that runs E-W through center of sec. 16, T21 South, R29 E.

TBM #2A .12 miles W. of TBM #1 a "X" chipped on top of the west end of the N. wall of a conc. bridge along the above E-W rd.

TBM #3A RR spike in S. side of power pole in front of Fosgate well #2 (South)

TBM #4A center of inter. of (Hwy) N-S rd. + E-W rd. in center of sec. 16, T21 S, R29 E



TBM #5A RR spike in C of Hwy 431, .24 miles south of Fosgate water tower. Also in line with a sand rd

Sta BS HI FS Elev.

TP32 3.22 111.92 3.35 108.70

TP33 4.04 111.92 4.06 107.86

TP34 8.45 114.89 5.48 106.44

TP35 7.81 121.24 1.46 113.43

TP36 5.40 116.28 10.36 110.88

TP37 4.89 117.10 4.07 112.21

TP38 4.13 116.53 4.70 112.40

TP39 4.73 121.10 0.16 116.37

TP40 3.78 123.33 1.55 119.55

TP41 1.43 121.31 3.45 119.88

2795 USGS 48
Well # 5.46 120.68 6.09 115.22

TP42 8.63 128.51 0.80 119.88

TP43 8.29 135.73 0.57 127.44

TP44 3.60 135.11 4.22 131.51

TP45 2.16 131.80 5.47 129.64

TP46 0.64 120.57 11.87 119.93

TP47 0.65 111.13 10.09 110.48

TP48 10.95 116.33 5.75 105.38

#7A

TBM

USGS 301
Drainage
Wellerror
-.02

#8A

TBM

Rd.
for R

2795

Well #

error

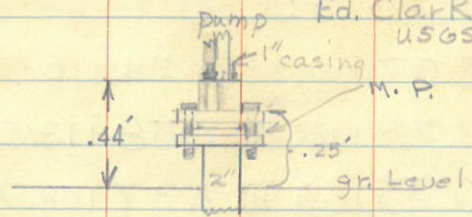
+.50

#9A

TBM

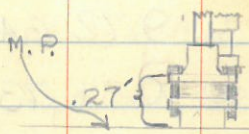
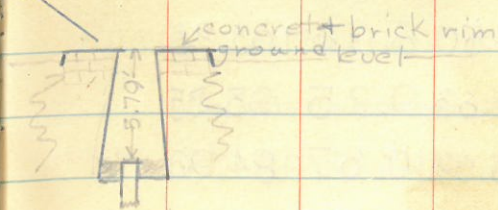
Ed. Clark

USGS well # 739



108.74

107.90



FGS well # 2795

cement floor

cont.

TBM5A - leading West.

TBM6A - .26 miles West along
sand rd from TBM5A. The
E. rail of the ACL RR at the
center of a sd. rd. crossing

TBM7A R.R. spike in W. side of
Power pole on the N.E. corner of the
inters. of a E-W sd. rd. that runs

Sta	BS	HI	FS	Elev.
TP ₄₉	5.07	121.16	0.24	116.09
TP ₅₀	2.75	116.33	7.58	113.58
TP ₅₁	0.95	109.91	7.37	108.96
TP ₅₂	1.25	104.50	6.66	103.25
TP ₅₃	0.38	95.63	9.25	95.25
TP ₅₄	0.66	85.62	10.67	84.96
TP ₅₅	0.43	74.35	11.70	73.92
TP ₅₆	9.68	74.31	9.72	64.63
TP ₅₇	1.42	75.22	0.51	73.80
TP ₅₈	0.05	64.64	7.63	64.59
TP ₅₉	4.67	63.46	5.85	58.79
TP ₆₀	4.57	63.25	4.78	58.68
TP ₆₁	8.74	69.80	2.19	61.06
Well #				
2794	1.10	68.18	2.72	67.08
TP ₆₂	5.09	63.88	9.39	58.79
TP ₆₃	6.85	64.07	6.66	57.22
TP ₆₄	9.46	73.14	0.39	63.68
TP ₆₅	10.50	83.37	0.27	72.87
TP ₆₆	4.96	88.33	0.00	83.37

+3.00
error
67.59
10 A 73.45

TBM #

USGS 481

2794
Well #

11A

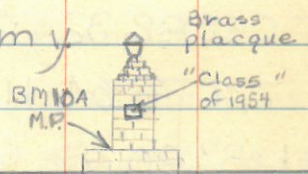
TBM

cont.
TBM 7A - along the N. side of sec. 20,
and a sd. rd. running N-S thru.
the center of Sec 20, T21S, R29E

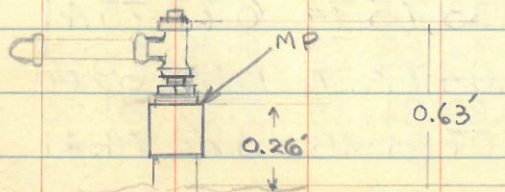
TBM 8A Center of "T" inters. at
N.W. Corner of Sec 20, T21S, R21W
R.R. spike in C of rd.

TBM 9A. RR spike in C of ^{Hwy} 436 at
inters. of Balmy Beach Drive.

TBM 10A S.W. corner of Wentrence,
lamp post to Forest Lake
Academy



67.08
398
256
+v7
70.30
20.63



Cecil B. Waller
present owner

Sta	BS	HI	FS	Eleu	
TP ₆₇	6.92	93.69	1.56	86.77	12A TBM
TP ₆₈	1.85	93.65	1.89	91.80	
TP ₆₉	0.35	82.23	11.77	81.88	
TP ₇₀	0.72	72.08	10.87	71.36	13A TBM
TP ₇₁	2.23	66.74	7.57	64.51	
TP ₇₂	9.08	68.54	7.28	59.46	
TP ₇₃	9.35	77.71	0.18	68.36	
TP ₇₄	8.20	81.08	4.83	72.88	TBM #1
TP ₇₅	5.55	82.24	4.39	76.69	
TP ₇₆	5.85	82.81	5.28	76.96	
TP ₇₇	0.26	82.32	0.75	82.06	
TP ₇₈	7.40	78.64	11.08	71.24	
TP ₇₉	11.83	90.28	0.19	78.45	
TP ₈₀	1.86	90.28	1.86	88.42	
TP ₈₁	1.33	82.18	9.43	80.85	
TP ₈₂	7.90	83.31			
TP ₈₂	0.33	75.74	6.77	75.41	
TP ₈₃	5.72	88.73	0.30	83.01	
TP ₈₃	8.04	77.70	6.08	69.66	
TP ₈₄	3.29	84.35	7.67	81.06	
TP ₈₄	7.07	81.48	3.29	74.41	
TP ₈₅	4.27	81.55	7.07	77.28	

TBM 11A an "X" chipped in the ~~east~~ west wall of a concrete spillway at the east end of Pearl Lake

TBM 12A R.R. spike in center of intersection of Hwy. 436 + Hwy 431
Approx. .25 miles N. of steel water tower at Forest City.

TBM 13A Inter. of ACL-RR with Hwy 436 at Forest City. The ~~east~~ west rail where two sections of track join. About 6' south of ϕ of 436.

Sta	BS	HI	FS	Elev.
TP86	11.87	93.04	0.38	81.17
TP87	3.43	94.52	1.95	91.09
TP88	2.39	89.61	7.30	87.22
TP89	4.05	89.33	4.33	85.28
TP90	4.37	89.70	4.00	85.33
TP91	2.59	88.70	3.59	86.11
B M #AW-12				
Altamonte			1.26	87.44

89.44

3.48

91.03

90.92

90.92

.11

Lake Co. S. of Hawey

Well #1

Sta BS HI FS Elev.

SRD-BM

#117

5.85 93.46 — 87.61

TP₁ 10.37 103.63 0.20 93.26TP₂ 0.54 101.45 2.72 100.91TP₃ 4.95 99.95 6.45 95.00TP₄ 11.60 111.43 0.12 99.83TP₅ 11.21 122.72 0.08 111.35 ^{111.35} _{-0.16 error}TP₆ 9.96 132.49 0.19 122.53TP₇ 11.63 143.98 0.14 132.35TP₈ 10.15 153.88 0.25 143.73TP₉ 11.94 165.50 0.32 153.56TP₁₀ 11.67 177.16 0.01 165.49TP₁₁ 10.39 186.84 0.71 176.45TP₁₂ 7.46 193.45 0.85 185.99TP₁₃ 0.66 188.06 6.05 187.40TP₁₄ 0.04 178.83 9.27 178.79TP₁₅ 0.19 170.82 8.20 170.63TP₁₆ 0.49 159.87 11.44 159.38TBM₁

0.50 + 35 error

x.66 Lower than RR spike in pole 31B

TBM₂

Sta BS HI FS Elev.

TP₁₇ 0.32 150.72 9.47 150.40TP₁₈ 1.73 142.88 9.57 141.15TP₁₉ 10.78 152.63 1.03 141.85TP₂₀ 11.47 163.81 0.29 152.34TP₂₁ 9.12 161.21 11.72 152.09Well # 4.69 161.74 4.16 157.05 ^{157.20 t. of}TP₂₂ 9.66 161.75 9.65 152.09TP₂₃ 4.71 154.61 11.85 149.90TP₂₄ 10.71 163.96 1.36 153.25TP₂₅ 8.14 171.85 0.25 163.71TP₂₆ 8.93 179.55 1.23 170.62TP₂₇ 9.75 188.09 1.21 178.34TP₂₈ 5.34 193.24 0.19 187.90TP₂₉ 1.22 187.18 7.28 185.96TP₃₀ 0.37 176.44 11.11 176.07TP₃₁ 0.15 165.27 11.32 165.12TP₃₂ 0.25 153.60 11.92 153.35TP₃₃ 0.05 143.41 10.24 143.36TP₃₄ 0.30 132.27 11.44 131.97

x.62 Lower than RR Sp. in P. pole 31B

Sta BS HI FS Elev.

TP₃₅ 0.61 122.77 10.11 122.16TP₃₆ 0.22 111.36 11.63 111.14TP₃₇ 0.87 100.53 11.70 99.66TP₃₈ 4.67 99.51 5.69 94.84TP₃₉ 5.35 104.31 0.55 98.96TP₄₀ 1.71 99.26 6.76 97.55TP₄₁ 3.31 93.39 9.18 90.08

1 5.90 87.49

~~87.61~~~~87.49~~

- .16

157.05

+ .19

157.24

- .04

157.20' ± .04'

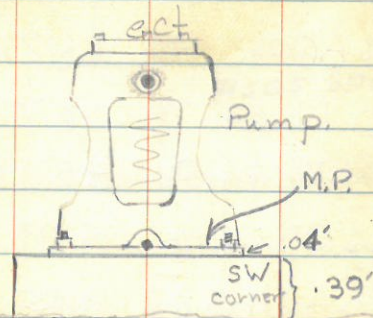
- .16

+ .35

87.68

87.61

.07



Seminole Co., Sanford

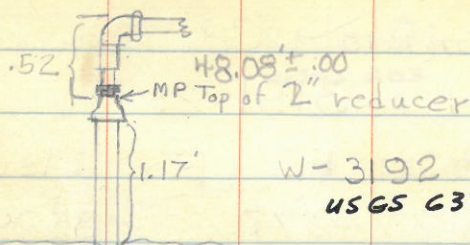
Wells #3192, 2789, and 3197

Sta	BS	HI	FS	Elev.
TBM. Bolt in apron. Jct. Hwy 17+92 + Lake Mary Rd.	6.24	52.59		46.35
Well # 31.92	4.84	52.92	4.51	48.08
TBM	1.71	48.06	6.57	46.35
TP ₁	4.86	48.75	4.17	43.89
Well # 2789	3.33	47.36	4.72	44.03
TP ₂	4.73	45.56	6.53	40.83
TP ₃	4.60	45.34	4.82	40.74
TP ₄	5.11	44.78	5.67	39.67
Well # 3197	3.76	44.91	3.63	41.15
TP ₅	4.95	44.61	5.25	39.66
TP ₆	4.69	45.42	3.88	40.73
TP ₇	6.40	47.97	3.85	41.57
TBM			1.57	46.40
				46.35
				.05

$$W-3192 = 48.08' \pm .00'$$

$$W-2789 = 44.00' \pm .03'$$

$$W-3197 = 41.12' \pm .03'$$

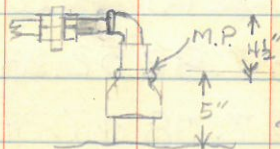
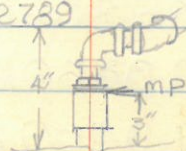


W-3192

USGS 637

USGS 489

W-2789



W-3197

USGS 590

-03

41.12

TBM (Bolt in apron of ^{US} Hwy 17+92 at Jct. of Lake Mary Rd.)
 Established by Lossing + Sparkman
 for Robert M. Angus Consult.
 Eng. for Sanford.

Seminole Co. Sanford

Sta Well # 3191

Sta	BS	HI	FS	Elev.
TBM Top of casing at Hidden Lake	6.77	42.77		36.00 USGS Well 234

TP₁ 5.08 42.84 5.01 37.76TP₂ 7.83 50.33 0.34 42.50TP₃ 10.35 60.41 0.27 50.06TP₄ 1.94 60.20 2.15 58.26TP₅ 2.08 54.46 7.82 52.38TP₆ 4.97 52.35 7.08 47.38TP₇ 4.84 54.28 2.91 49.44

Well # 3191	5.82	54.17	5.93	48.35	USGS 603	-04 48.31
-------------	------	-------	------	-------	----------	-----------

TP₈ 2.62 52.04 4.75 49.42TP₉ 6.75 54.13 4.66 47.38TP₁₀ 8.10 60.48 1.75 52.38TP₁₁ 2.12 60.40 2.20 58.28TP₁₂ 0.26 50.37 10.29 50.11TP₁₃ 0.47 43.04 7.80 42.57TP₁₄ 4.99 42.83 5.20 37.84

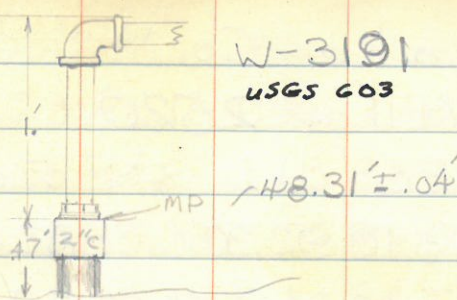
TBM

6.75 36.08

36.00
-08

W-3191

USGS 603



TBM-(Top of coupling of artision well at Hidden Lake.) Established by Lossing + Sparkman for Robert M. Angus Consult. Engineer for. Sanford

Lake Co. W. of Okahumpk

Well # 2520

Sta BS HI FS Elev.

TBM in
center of Inter.

5.10 92.30 87.20

TP₁ 5.10 94.78 2.62 89.68TP₂ 0.09 84.82 0.05 84.73TP₃ 7.07 84.00 7.89 76.93TP₄ 2.43 86.08 0.35 83.65TP₅ 2.00 80.13 7.95 78.13TP₆ 3.39 77.96 5.56 74.57TP₇ 6.69 ^{78.36} 96 6.29 ^{71.67} 71.27TP₈ 9.46 84.68 3.14 75.22TP₉ 4.75 87.03 2.40 82.28TP₁₀ 0.72 83.00 4.75 82.28Well #
2520

5.87 83.15 5.72 77.28

TP₁₁ ^{4.70} ^{86.99} 87.99 0.86 82.29TP₁₂ 2.31 84.60 4.70 82.29TP₁₃ 3.11 78.34 9.37 75.23TP₁₄ 6.30 77.98 6.66 71.68TP₁₅ 5.23 79.82 3.39 74.59

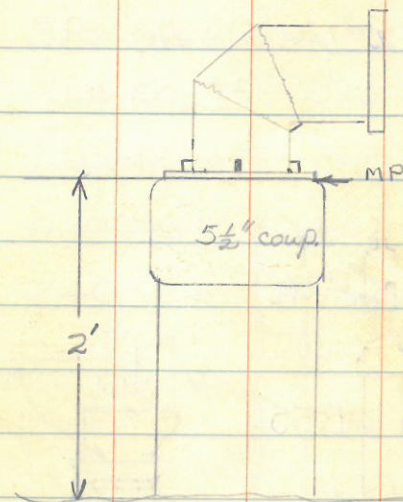
Sta BS HI FS Elev.

TP₁₆ 8.23 86.15 1.90 77.92TP₁₇ 0.56 84.28 2.43 83.72TP₁₈ 8.39 85.39 7.28 77.00TP₁₉ 9.70 94.48 0.61 84.78TP₂₀ 2.43 92.14 4.77 89.71

TBM 4.90 87.24

87.20

Elev. of MP 77.26' ± .02'



Gr. Elev. 75.26' ± .02'

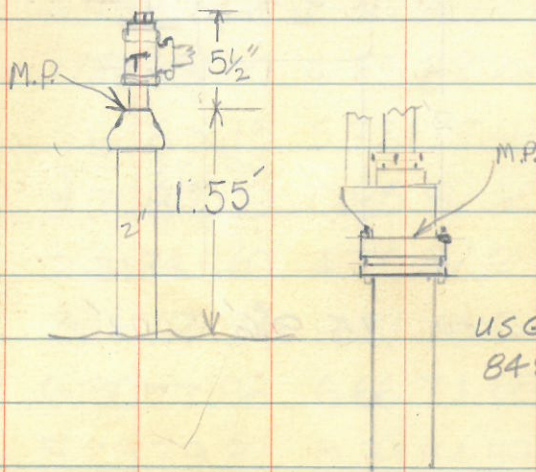
Seminole Co. Sanford

Well # 3196 ^{USGS} 588

Sta	BS	HI	FS	Elev.
AW4 B (BM)				
Sanford	10.10	49.67		39.57
TP	4.39	50.10	3.96	45.71
Well # 3196	3.58	49.94	3.74	<u>46.36</u>
TP2	3.00	48.72	4.22	45.72
BMA			9.16	39.56

.01 error

Elev. atop 2" reducer

USGS
588

Seminole Co. Sanford

Sta BS HI FS Elev
Well #

BM-DA243				
Lake Mary	2.63	60.24		57.61
TP1	10.54	63.90	6.88	53.36
TP2	0.67	62.34	2.23	61.67 59.31
TP3	4.24	63.06	3.52	58.82
TP4	1.80	53.39	11.47	51.59
TP5	5.39	52.69	6.09	47.30
TP6	5.06	49.69	8.06	44.63
TP7	5.85	50.69	4.85	44.84
TP8	6.14	50.35	6.48	44.21

9	^{2.92} 6.93	45.97	7.30	43.05
	0.19	36.53	^{9.63} 4.51	36.34
	7.40		10.77	25.76
	11.02		10.83	
	10.65		7.58	
	9.76		0.07	
	6.93		3.04	
			4.51	

Crystal Lake

Void
Well #

Void

OVER

Sta	BS	HI	FS	Elev	
TP9	11.02	54.07	7.30	43.05	TBM
TP10	10.65	57.14	7.58	46.49	
TP11	9.76	66.83	0.07	57.07	
Well#	2.92	66.71	3.04	63.79	USGS 813 ?
TP12	0.19	57.27	9.63	57.08	
TP13	7.40	53.90	10.77	46.50	
TP14	6.93	50.00	10.83	43.07	
TP15	4.90	50.39	4.51	45.49	
TP16	4.83	49.69	5.53	44.86	
TP17	7.23	51.88	5.04	44.65	
TP18	5.94	53.27	4.55	47.33	
TP19	11.58	63.25	1.60	51.67	
TP20	3.56	62.43	4.38	58.87	
TP21	2.95	64.58	8.80 3.56	61.63	
TP22	7.02	60.40	11.20	53.38	
BM			2.77	57.63	
				57.61	
				.02	

Crystal Lake

USGS
813 ?

See USGS

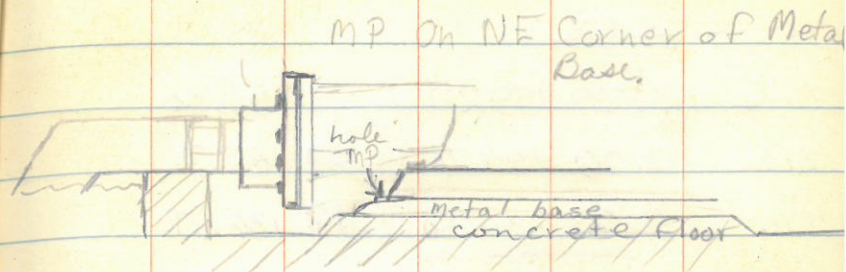
Field Book

Seminole Co. #1

r

Lake Co. - S. Howey

STA.	BS	HI	FS	Elev.
SRD-BM 117				
TP	8.58	96.19	-	87.61
TP 1	5.68	⁹⁸ 88.29	3.58	⁹² 82.61
TP 2	4.51	97.76	5.04	93.25
TP 3	4.92	97.36	5.32	92.44
TP 4	4.64	96.63	5.37	91.99
TP 5	2.89	93.42	6.10	90.53
TP 6	7.07	94.60	5.89	87.53
TP 7	9.40	102.57	1.43	93.17
TP 8	6.90	108.52	0.95	101.62
TP 9	3.55	108.04	4.03	104.49
TP 10	11.39	113.54	5.89	102.15 TBM
TP 11	11.58	125.06	0.06	113.48
TP 12	11.40	136.39	0.07	124.99
TP 13	10.87	146.35	0.91	135.48
TP 14	11.85	157.69	0.51	145.84
TP 15	1.23	157.40	1.52	156.17
W-2173	5.06	157.19	5.27	152.13



Sta BS HI FS Elev

~~1.33~~TP₁₆ 3.34 159.20 1.33 155.86TP₁₇ 0.00 147.71 11.49 147.71TP₁₈ 0.32 136.54 11.49 136.22Reshot ~~0.10 125.04 11.60 124.94~~Reshot ~~0.16 113.41 11.65 113.35~~~~11.40 102.01~~TP₁₉ 0.10 125.04 11.60 124.94TP₂₀ 0.16 113.51 11.69 113.35TP₂₁ 5.92 108.03 11.40 102.11 TBM₁TP₂₂ 3.66 108.11 3.58 104.45TP₂₃ 0.91 102.50 6.52 101.59TP₂₄ 0.78 93.92 9.36 93.14TP₂₅ 6.00 93.52 6.40 87.52TP₂₆ 6.10 96.64 2.98 90.54TP₂₇ 5.02 97.18 4.48 92.16TP₂₈ 4.89 97.35 4.72 92.46TP₂₉ 5.09 98.28 4.16 93.19TP₃₀ 3.80 96.43 5.65 92.63

TBM 8.77 87.66

~~1.33~~

87.66

SRD-TBM-87.61

error of closure .05

Lake Co. W. of Tavares

Sta	BS	HI	FS	Elev
Tavares				
RUZ (S&RR)	1.15	76.25		75.10 75.095

TP ₁	3.08	73.57	3.76	70.49
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TP ₂	4.25	72.41	5.41	68.16
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TP ₃	4.52	71.53	5.40	69.01
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TP ₄	5.07	71.62	4.98	66.55
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TP ₅	5.15	72.33	4.44	67.18
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TP ₆	5.52	73.20	4.65	67.68
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TBM	3.65	73.23	3.62	69.58
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TP ₇	4.72	72.40	5.55	67.68
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TP ₈	4.64	71.83	5.21	67.19
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TP ₉	4.85	71.41	5.27	66.56
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TP ₁₀	5.25	72.25	4.41	67.00
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TP ₁₁	5.73	73.89	4.09	68.16
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TP ₁₂	5.85	76.32	3.42	70.47
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BM			1.24	75.08
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		error	.02	
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TBM-T ₁	=	69.59 ± .01		
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Sta	BS	HI	FS	Elev
TBM-T ₁				
	2.57	72.16		69.59

TP ₁	3.68	73.39	2.45	69.71
-----------------	------	-------	------	-------

TP ₂	6.15	75.57	3.97	69.42
-----------------	------	-------	------	-------

TP ₃	2.68	72.68	5.57	70.00
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TP ₄	4.01	73.43		
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TP ₅	5.57	72.85	6.15	67.28
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TP ₆	5.34	73.51	2.68	70.17
-----------------	------	-------	------	-------

TP ₇	3.35	73.94	4.92	70.59
-----------------	------	-------	------	-------

TP ₈	1.08	72.53	2.49	71.45
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TP ₉	2.97	73.31	2.19	70.34
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TP ₁₀	4.49	74.44	3.36	69.95
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TP ₁₁	4.15	74.49	4.10	70.34
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TP ₁₂	7.92	78.23	4.18	70.31
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TP ₁₃	8.27	86.30	0.20	78.03
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TP ₁₄	6.06	82.17	10.19	76.11
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TP ₁₅	2.49	76.26	8.40	73.77
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TP ₁₆	7.34	79.27	4.33	71.93
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TP ₁₇	5.70	84.78	0.19	79.08
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TBM-T₂

Sta	BS	HI ^{84.78}	FS	Elev.
TP18	5.03	82.42	7.39	77.39
TP19	7.32	86.01	3.73	78.69
TP20	4.11	86.22	3.90	82.11 TBM-T ₃
TP21	1.48	86.74	0.96	85.26
TP22	5.91	85.79	6.86	79.88
TP23	0.68	80.40	6.14	79.72 ⁶⁵ error $-.07$
TP24	2.60	78.63	4.37	76.03 TBM-T ₄
TP25	3.37	76.87	5.13	73.50
TP26	6.05	79.77	3.15	73.72
TP27	1.22	74.47	6.52	73.25
TP28	3.49	72.46	5.50	68.97
TP29	4.81	72.42	4.85	67.61
W. 3332	3.82	72.24	4.00	68.42
TP30	4.91	72.52	4.63	67.61
TP31	5.43	74.43	3.52	69.00
TP32	6.62	79.88	1.17	73.26
TP33	3.21	76.94	6.15	73.73
TP34	5.15	78.65	3.44	73.50

78.65

Sta	BS	HI	FS	Elev.
TP35	4.51	80.56	2.60	76.05 TBM-T ₄
TP36	5.31	85.04	0.83	79.73
TP37	6.87	86.78	5.13	79.91
TP38	1.03	86.39	1.41	85.38 ⁶
TP39	5.48	87.68	4.19	82.20 TBM-T ₃
TP40	3.71	82.34	9.05	78.63
TP41	7.39	84.85	4.88	77.46
TP42	0.55	79.71	5.69	79.16 TBM-T ₂
TP43	4.62	76.55	7.78	71.93
TP44	8.40	82.23	2.72	73.83
TP45	9.37	85.54	6.06	76.17
TP46	0.29	78.40	7.43	78.11
TP47	4.51	75.23	7.68	70.72
TP48	3.90	74.37	4.76	70.47
TP49	3.45	73.54	4.28	70.09
TP50	2.34	72.83	3.05	70.49
TP51	2.45	73.97	1.31	71.52
TP52	5.09	75.81	3.25	70.72

75.81

Sta	BS	HI	FS	Elev.	
TP53	1.01	71.59	5.23	70.58	
TP54	6.14	73.55	4.18	67.41	TBM
TP55	4.00	73.42	4.13	69.42	
TP56	2.10	72.30	3.22	70.20	
TBM			2.59	69.71	

B.M. Closure 69.71

Math. error - .07

actual B.M. Closure 69.64

B.M. 69.59

.05



Orange Co. Tangerine

Sta	BS	HI	FS	Elev.
Bm-M49				
mt. Dora	1.95	151.83	—	149.88
TP ₁	7.35	153.74	5.44	146.39
TP ₂	6.07	159.67	0.14	153.60
TP ₃	0.21	148.42	11.46	148.21
TP ₄	9.82	151.84	6.40	142.02
TP ₅	11.11	162.86	0.09	151.75
TP ₆	0.57	159.49	3.94	158.92
TP ₇	0.22	148.22	11.49	153.00
TP ₈	0.37	138.13	10.46	137.76
TP ₉	0.26	128.11	10.28	127.85
TP ₁₀	0.37	119.62	8.86	119.25
TP ₁₁	2.80	118.10	4.32	115.30
TP ₁₂	0.43	107.46	11.07	107.03
TP ₁₃	0.28	97.62	10.12	97.34
TP ₁₄	0.33	90.24	7.71	89.91
TP ₁₅	4.64	87.18	7.70	82.54
TP ₁₆	9.11	95.69	0.60	86.58
TP ₁₇	8.86	104.16	0.39	95.30

con't.

Tangerine

104. 16

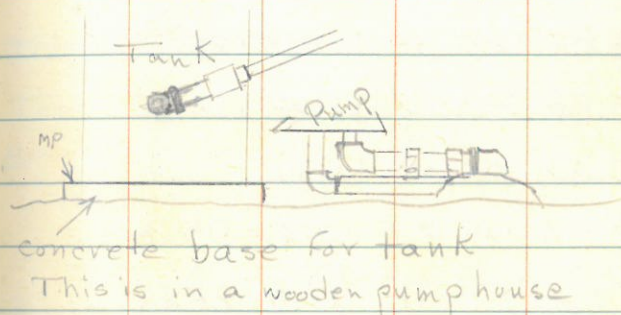
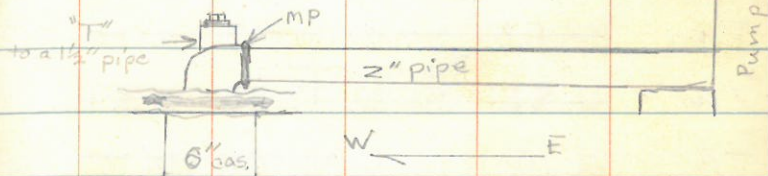
Sta	BS	HI	FS	Elev
TP18	11.40	115.23	0.33	103.83
TP19	11.89	126.40	0.72	114.51
TP20	11.46	137.11	0.75	125.65
TP21	11.59	147.87	0.83	136.28
TP22	7.40	155.22	0.05	147.82
TP23	7.42	156.12	6.52	148.70
TP24	4.17	154.92	4.49 ^{5.37}	150.75
TP25	5.14	155.48	4.58	150.34
TP26	0.45	154.00	1.93	153.55
TP27	3.72	153.18	4.54	149.46
TP28	6.37	152.52	7.03	146.15
W 1704	3.53	152.50	3.55	148.97
TP29	0.18	146.33	6.35	146.15
TP30	0.13	134.92	11.54	134.79
TP31	0.47	126.45	8.94	125.98
W 999	3.60	126.42	3.63	122.82
TP32	8.91	134.89	0.44	125.98
TP33	11.48	146.30	0.07	134.82

TBM-T - Top of W. end of a ~~thru~~ wall to a culvert. S. end of culvert. E. side of Hwy 441. About 1.1 mi. along 441 from Or-Lake Co. Line.

FS on

5.91

49.31



Sta	BS	HI 146.30	FS	Elev.
TP34	7.02	153.21	0.11	146.19
TP35	4.58	154.08	3.70	149.50
TP36	2.02	155.60	0.50	153.58
TP37	4.55	154.92	5.23	150.37
TP38	4.43	155.21	4.14	150.78
TP39	6.00	148.74	6.47	148.74 TBMT
TP40	0.53	137.47	11.80	136.94
TP41	0.52	126.30	11.63	125.84
TP42	0.14	148.88	11.66	114.70
TP43	0.29	137.24	11.93	136.95
TP44	0.67	126.38	11.53	125.71
TP45	0.52	115.02	11.88	114.50
TP46	0.55	104.45	11.12	103.90
TP47	0.34	95.73	9.06	95.39
TP48	0.65	87.31	9.07	82.66
TP49	8.15	90.80	4.66	82.65
TP50	8.43	98.44	0.79	90.01
TP51	10.06	107.52	0.98	97.46

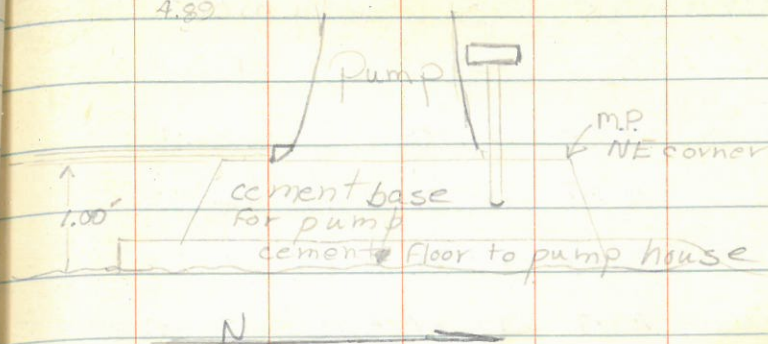
Reshot

Sta	BS	HI	FS	Elev.
TP52	11.02	118.19	0.35	107.17
TP53	7.14	122.57	2.76	115.43
TP54	10.48	129.83	3.22	119.35
TP55	10.31	138.27	1.87	127.96
TP56	10.51	148.41	0.37	137.90
TP57	10.55	158.70	0.26	148.15
TP58	4.45	163.15	0.00	158.70
TP59	0.83	152.71	11.27	151.88
TP60	4.55	146.71	10.55	142.16
TP61	11.29	157.65	0.35	146.36
TP62	0.83	156.53	1.95	155.70
TP63	5.58	151.38	10.73	145.80
TP64	6.33	154.66	3.05	148.33
BM			4.66	150.00
closure		150.00		
BM		149.88		
			.12 error of closure	

Orange Co., Zellwood

Sta	BS	HT	FS	Elev
Zellwood				
BM-J-79	7.19	97.10	—	89.91
TP ₁	5.38	99.90	2.58	94.52
W-1964	3.82	99.83	3.89	96.01
TP ₂	2.53	97.04	5.32	94.51
BM			7.13	89.90

4.89



Orange Co. Plymorth

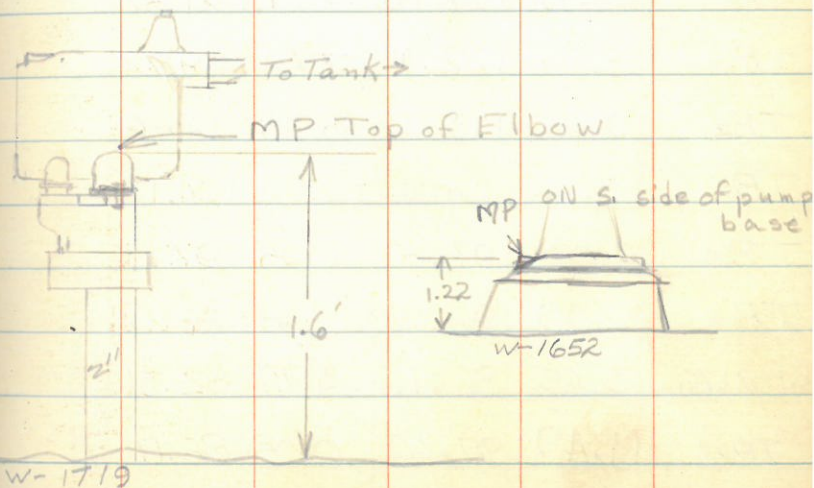
Sta	BS	HI	FS	Eleu
Top of Rail opp SAL-RR Station at Ply.	4.02	125.92		121.9
TP ₁	4.47	126.32	4.07	121.85
TP ₂	4.39	125.91	4.80	121.52
W 1443	4.97	125.87	5.01	120.90 w ←
TP ₃	4.24	125.76	4.35	121.52
W 1501	5.47	126.20	5.03	120.73 ←
TP ₄	4.57	124.99	5.78	120.42
W 1769	4.65	124.96	4.68	120.31 ←
TP ₅	4.60	125.02	4.54	120.42
TP ₆	5.58	127.04	3.56	121.46 TBM ←
TP ₇	1.76	124.64	4.16	122.88
TP ₈	5.55	126.86	3.33	121.31
W 1719	3.18	126.12	3.92	122.94 w
TP ₉	6.75	128.48	4.39 to	121.73
TP ₁₀	5.76	131.50	2.74	125.74
TP ₁₁	2.65	128.64	5.51	125.99
W 1652	4.79	128.61	4.82	123.82 w
TP ₁₂	2.99	128.98	2.62	125.99
TP ₁₃	6.02	128.75	6.25	122.73
B.M.			6.88	121.87

M.P. on E. concret filled block, used
as a base for pump shed

MP " " " " "

MP on N. corner of concret step on NW
side of pump house.

Top of Bolt & Nut on outside of S. leg
of Minute Maid Water tank,



Orange Co. W. of Plymouth

Sta	BS	HI	FS	Elev.
TP ₁	3.84	125.74	—	121.9
TP ₂	5.02	125.09	5.67	120.07
TP ₃	4.71	126.42	3.38	121.71
TP ₄	1.25	123.88	3.79	122.63
TP ₅	4.16	120.86	7.18	116.70
TP ₆	3.95	121.93	2.88	117.98
TP ₇	2.01	113.59	10.35	111.58
TP ₈	^{void} 7.13	120.40	0.32	113.27
TP ₉	6.92	120.19	^{void} 0.20	120.20
TP ₁₀	6.63	126.58	0.24	119.95
TP ₁₁	5.29	127.16	4.71	121.87
TP ₁₂	3.19	122.91	7.44	119.72
TP ₁₃	0.16	115.02	8.05	114.86
TP ₁₄	0.06	104.16	10.92	104.10
TP ₁₅	0.39	97.60	6.05	97.21
TP ₁₆	0.09	86.21	11.48	86.12
W-2176	3.65	86.16	3.70	82.51
TP ₁₇	11.49	97.60	0.05	86.11

M.P. on concrete floor of pump house in
E of doorway, next to 2'x6" door
sill.

Sta	BS	HI	FS	Elev.
TP ₁₈	10.63	98.12	10.11	87.49
TP ₁₉	8.49	106.22	0.39	97.73
TP ₂₀	8.70	114.88	0.04	106.18
W-1899	3.45	114.51	3.82	111.06
TP ₂₁	8.80	120.26	3.05	111.46
TP ₂₂	7.68	125.78	2.16	118.10
TP ₂₃	6.28	129.78	2.28	123.50
TP ₂₄	5.10	131.34	3.54	126.24
TP ₂₅	4.43	132.51	3.26	128.08
TP ₂₆	2.05	130.05	4.51	128.00
TP ₂₇	0.97	122.12	8.90	121.15
TP ₂₈	5.08	121.24	5.96	116.16
TP ₂₉	7.24	123.93	4.55	116.69
TP ₃₀	3.54	126.16	1.31	122.62
TP ₃₁	3.67	125.37	4.46	121.70
TP ₃₂	5.73	125.99	5.31	120.06
BM			3.88	121.91



MP. Top of bolt that fastens ^{SE corner of} metal
pumphouse to concrete base
4" above Gr. Level.

Orange Co. Rock Spr.

Sta.	BS	HI	FS	Elev.
UE				
TP ₁	4.03	91.03	—	86.1
TP ₁	3.05	86.32	7.76	83.27
W 29.85	5.87	86.26	5.93	80.39
TP ₂	7.72	90.99	2.09	83.27
UE			4.85	86.14

.04 error of closure

UE in C of Rd at intersection of
424 + Rock Spr. - Appka Rd.

FS on Gr 7.42

FS on MP 5.93

diff. in elev. 1.49

Test run

F

4.75

BS HI FS Elev

4.80 25.80 21.00

4.68 25.73 4.75 21.05

4.57 25.53 4.77 20.96

4.10 24.97 4.67 20.86

4.71 23.97 5.71 19.26

Well

6.95 17.02 Well

Well

7.92 24.94 17.02

5.28 24.58 5.72 19.22

4.89 25.45 3.95 20.56

4.76 25.63 4.58 20.87

4.82 25.83 4.62 21.01

4.78 21.05

21.05

21.00

.05 error

1. The Owner
2. County Clerk
3. " Tax assessor
4. Dept Agri.
5. " Soil Conservation
6. U.S.G.S.

Granville G. Wyrick
530 S. Ridgewood Ave.
Ph. 2-3698 Daytona Beach

Stewart, Herbert G.
731 Sagamore Rd. S. Lake

7. Drillers
8. F.G.S.

Layne Atlantic Co.
1107 S. Orange Blossom Trail

O. County Soil Conserv.
1127 W Centl. Ave

Orlando Irrigation Co.
1540 W Smith Ave.

Tracy's Plumbing & Pumps
232 W. Truin

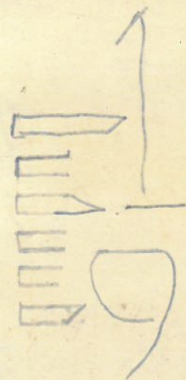
Meridith Bros Well & Pump Co
2911 W Washington.

Cent. Fla. W. Drillers
2000 W Colonial Drive

Freeman Well & Pump Co
712 W. Church

Belmar W. Drill. & Pump.
RR B Winter Garden

35.995 to top of coupling
At Hidden Lake
46.350 bolt in Apron
W. side US 17+92 At
inter. with Lake Mary Rd.
Lossing + Sparkman for
Robert M. Angas
Consult. Eng. for Sanford



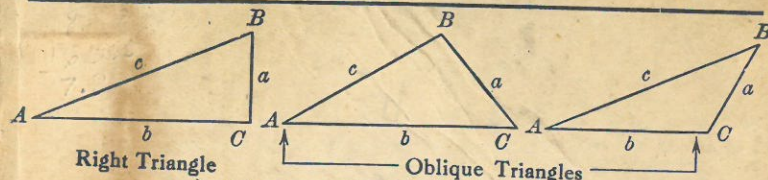
Meridith Bros Well + Pump
2911 W Washington

Cent. Fla. W. Drillers
2000 W Colonial Drive

Freeman Well + Pump Co
712 W. Church

Belmar W. Drill. + Pump
RR 3 Winter Garden

TRIGONOMETRIC FORMULÆ



Solution of Right Triangles

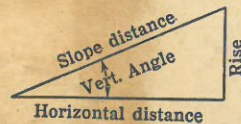
For Angle A. $\sin = \frac{a}{c}$, $\cos = \frac{b}{c}$, $\tan = \frac{a}{b}$, $\cot = \frac{b}{a}$, $\sec = \frac{c}{b}$, $\csc = \frac{c}{a}$

Given	Required	
a, b	A, B, c	$\tan A = \frac{a}{b} = \cot B, c = \sqrt{a^2 + b^2} = a \sqrt{1 + \frac{b^2}{a^2}}$
a, c	A, B, b	$\sin A = \frac{a}{c} = \cos B, b = \sqrt{(c+a)(c-a)} = c \sqrt{1 - \frac{a^2}{c^2}}$
A, a	B, b, c	$B = 90^\circ - A, b = a \cot A, c = \frac{a}{\sin A}$
A, b	B, a, c	$B = 90^\circ - A, a = b \tan A, c = \frac{b}{\cos A}$
A, c	B, a, b	$B = 90^\circ - A, a = c \sin A, b = c \cos A$

Solution of Oblique Triangles

Given	Required	
A, B, a	b, c, C	$b = \frac{a \sin B}{\sin A}, C = 180^\circ - (A + B), c = \frac{a \sin C}{\sin A}$
A, a, b	B, c, C	$\sin B = \frac{b \sin A}{a}, C = 180^\circ - (A + B), c = \frac{a \sin C}{\sin A}$
a, b, C	A, B, c	$A + B = 180^\circ - C, \tan \frac{1}{2}(A - B) = \frac{(a - b) \tan \frac{1}{2}(A + B)}{a + b}$ $c = \frac{a \sin C}{\sin A}$
a, b, c	A, B, C	$s = \frac{a + b + c}{2}, \sin \frac{1}{2}A = \sqrt{\frac{(s - b)(s - c)}{bc}}$ $\sin \frac{1}{2}B = \sqrt{\frac{(s - a)(s - c)}{ac}}, C = 180^\circ - (A + B)$
a, b, c	Area	$s = \frac{a + b + c}{2}, \text{area} = \sqrt{s(s - a)(s - b)(s - c)}$
A, b, c	Area	$\text{area} = \frac{b c \sin A}{2}$
A, B, c, a	Area	$\text{area} = \frac{a^2 \sin B \sin C}{2 \sin A}$

REDUCTION TO HORIZONTAL



Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 319.4 ft. Vert. angle = $5^\circ 10'$. From Table, Page IX. $\cos 5^\circ 10' = .9959$. Horizontal distance = $319.4 \times .9959 = 318.09$ ft. Horizontal distance also = Slope distance minus slope distance times (1 - cosine of vertical angle). With the same figures as in the preceding example, the following result is obtained. Cosine $5^\circ 10' = .9959$. $1 - .9959 = .0041$. $319.4 \times .0041 = 1.31$. $319.4 - 1.31 = 318.09$ ft.

When the rise is known, the horizontal distance is approximately: —the slope distance less the square of the rise divided by twice the slope distance. Thus: rise = 14 ft., slope distance = 302.6 ft. Horizontal distance = $302.6 - \frac{14 \times 14}{2 \times 302.6} = 302.6 - 0.32 = 302.28$ ft.