

PINELLAS CO.

1970

K-Σ

LEVEL BOOK

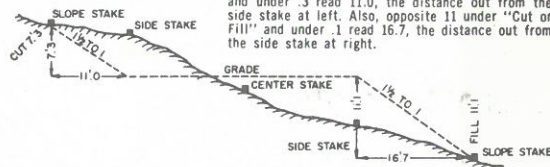
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T. KIERNAN
D. MURPHEY

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

Roadway of any Width. Side Slopes 1½ 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.



PINELLAS COUNTY

1970

T. KIERNAN

D. MURPHEY

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



The paper in this book is made of 50% high grade rag stock with a WATER RESISTING surface sizing.

KEUFFEL & ESSER CO.

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3118

PAGE 1

BM BS(H) H.I. FSC-1 ELEV.

BMx 8.53 51.53 ~~X~~ 43.00

MP 6.46 45.07

GND 45.07

PINELAS CO.

SEPT. 3 '70

OWNER: FEDERAL SAVINGS AND LOAN ASSOC.

BM: RD. INTERSECTION OF 9TH ST AND

CENTRAL AVE; 43.00'

WARM MORNING

LEVEL: TOM

ROD: DAN

LOCATION: SEC 19, T 31 S, R 17 E

NE 1/4 OF SW 1/4

PUMP IS GONE; SPOT ELEV. TAKEN

AT WELL SITE

GROUND ELEV: 45.07'

W-
2506

P. 2

BM	BS (+)	HI	FS (-)	ELEV
BM _v	11.80	49.80	X	38.00'
MP			4.86	44.94
GROUND				44.94'

PINELLAS Co

SEPT 3rd 70

OWNER: STAR MARKET

BM: Rd. INTERSECTION OF 5TH AVE N
AND 4TH ST; 38.00'

WARM MORNING

LEVEL: TOM

ROD: DAN

LOCATION: SEC 18, T31S, R17E
SE 1/4 OF SW 1/4WELL AND PUMP ARE GONE;
MARKET OUT OF BUSINESS; SPOT ELEV.
TAKEN AT SE CORNER OF BUILDING.
GROUND ELEV. 44.94'

W-
2377

P.3

BM	BS(+)	HI	FSC(=)	ELEV
BM _x	13.00	36.00	X	23.00
MP			1.60	34.40
GND				34.40

PINELLAS Co

SEPT 3, '70

OWNER: ST. PETE CHAMBER OF COMMERCE

BM: RD INTERSECTION OF 5TH AVE S AND
4TH ST, 23.00'

WARM MORNING

LEVEL: DAN

ROD: TOM

LOCATION: SEC 19, T31S, R17E, NE 1/4 OF SW 1/4

WELL IS GONE; SPOT ELEV.

GROUND ELEV.: 34.40'

W-
2394

P. 4

BM	BS (+)	H.I.	FS (-)	ELEV.
BM _x	7.56	50.56	X	43.00'
MP			5.54	45.02
GROUND				45.02'
			-4.00	
BELOW GROUND				41.02'

PINELLAS CO.

SEPT 3, '70

OWNER: DEL WEBB'S CITY

BM: RD INTERSECTION OF 9TH ST AND
CENTRAL AVE; 43.00'

HOT AFTERNOON

LEVEL: TOM

ROD: DAN

LOCATION: SEC 19, T31S, R17E, NW 1/4 OF SW 1/4

GROUND ELEV.

45.02'

4.00'

WELL + PUMP
ELEV.: 41.02'

W-
2384

P. 5

BM	BS(±)	H.I.	FS(±)	ELEV.
BM _x	5.8	18.80	X	13.00'
MP			3.28	15.52
GND				15.52

PINELLAS Co.

SEPT 4, '70.

OWNER: REXFORD C. QUIMBY

BM: RD INTERSECTION OF 5TH AVEN. AND
BEACH AVE; 13.00'

HOT AFTERNOON

LEVEL: DAN

ROD: TOM

LOCATION: SEC 19, T 31 S, R 17 E
SE 1/4 OF NE 1/4

WELL PUMP IN ACCESSABLE.

W 3733

P. 6

BM	BS (+)	H.I.	FSL (-)	ELEV.
BMx	6.24	55.24	X	49.01
TP,	4.92	54.38	5.78	49.46
MP			4.25	50.13
GROUND				50.13'

PINELLAS Co

SEPT 4, '70

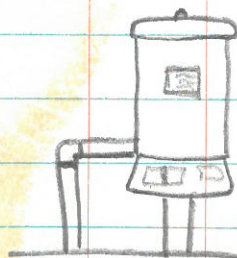
OWNER: ALLENDALE METHODIST CHURCH

 BM: RD. INTERSECTION 38th AVE. + 16th
 ST. North

HST AFTERNOON

LEVEL: TOM

ROD: DAN

LOCATION: SEC 1, T 31 S, R 16 E, SE $\frac{1}{4}$ OF SE $\frac{1}{4}$ 

GROUND ELEV.

50.13'

W-
4758

P. 7

BM	BS (+)	HI	FS (-)	ELEV.
----	--------	----	--------	-------

BMx	12.80	42.37	X	29.57
-----	-------	-------	--------------	-------

MP			12.35	30.02
----	--	--	-------	-------

GND				30.02
-----	--	--	--	-------

PINELLAS CO.

SEPT. 7, '70

OWNER: PINELLAS POWER SYSTEM

BM: RAILROAD SPIKE IN TELEPHONE POLE; 29.57'

HOT AFTERNOON

LEVEL: DAN

ROD: TOM

LOCATION: SEC 11, T27S, R16E, NE 1/4 OF NE 1/4

WELL LOCKED UP IN PUMP HOUSE

W-
4760

P. 8

BM BS(+) HI FS(-) ELEV

BM_x 12.80 42.37 ~~X~~ 29.57

TP₁ 7.18 42.47 7.08 35.29

MP ~~X~~ ~~X~~ 7.92 34.55

CND 34.55

PINELLAS CO.

SEPT. 7 '70

OWNER: PINELLAS POWER SYSTEM

BM: RAILROAD SPIKE IN TELEPHONE POLE; 29.57'

HOT AFTERNOON

LEVEL: DAN

ROD: TOM

LOCATION: SEC 12, T27S, R16E, NW¹/₄ OF NW¹/₄

WELL LOCKED UP IN PUMP HOUSE

W-
1901

P. 9

BM	BS (+)	H.I.	F.S. (-)	ELEV
BM _x	5.57	105.57'	X	100.00'
MP.			3.46	102.11
GROUND			3.46	+2.11
CASING			2.52	+3.05

ELEV. ON BENCHMARK IS UNKNOWN; MUST

WRITE WASHINGTON, D.C. FOR ELEV.

PINELLAS Co.

SEPT 7, '70

OWNER: COCA COLA Co.

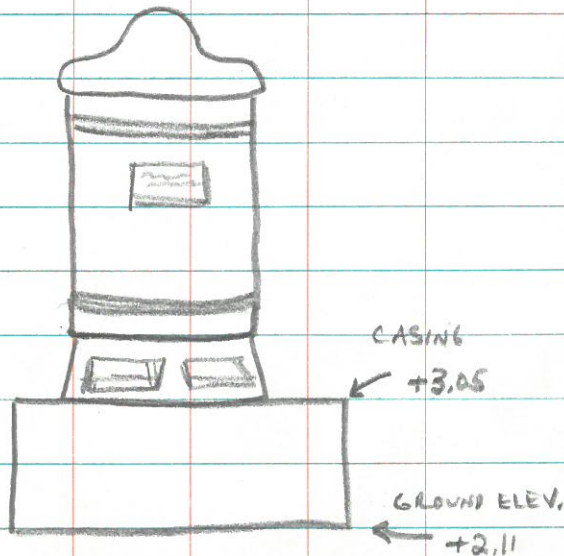
BM: USC+GS (No. B263) 1966

WARM MORNING

LEVEL: TOM

ROD: DAN

LOCATION: SEC 18, T31S, R17E, NW 1/4 OF NE 1/4



W-
3091

P. 10

BM	BS(1)	HI	FS(1)	ELEV.
BMx	8.64	26.64	X	18.00'
MP			7.52	19.12'
GROUND				19.12'
CASING			6.32	20.32'

PINELLAS Co.

SEPT 8, '70

OWNER: NORTHEAST HIGH SCHOOL

BM: CD INTERSECTION OF 16TH ST AND 54TH

AVE, 18.00'

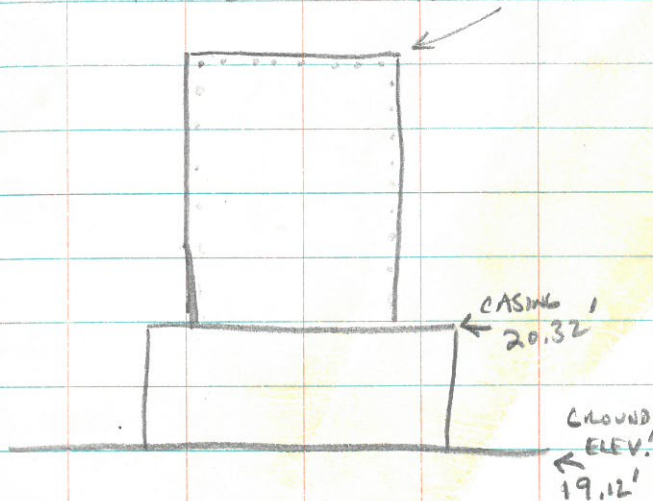
WARM MORNING

LEVEL: TOM

ROD: DAN

LOCATION: SEC 36, T30S, R16E, SE 1/4 OF SW 1/4

PUMP ENCLOSED IN STEEL SHED



W-
6034

P-11

BM	BS(+)	HI	FS(-)	ELEV
BMx	7.48	25.48	X	18.00
MP	X	X	5.26	20.22
GND				20.22

PINELLAS Co.

SEPT 8, 70

OWNER: HUMBLE OIL

BM: RD. INTERSECTION OF 66TH ST AND
54TH AVE N.; 18.00'

WARM AFTERNOON

LEVEL: DAN

ROD: TOM

LOCATION: SEC 5, T 31 S, R 1 E, NW 1/4 OF NW 1/4

WELL IS GONE; SPOT ELEV. TAKEN

W-
3101

P. 12

BM	BS (+)	HI	FS (-)	ELEV
BM _x	9.40	23.40	X	14.00'
MP.			5.93	17.47
GROUND				17.47'

PINELLAS Co.

SEPT 8, '70

OWNER: EVANGELISTIC MISSION

BM: RD INTERSECTION OF 71ST ST. AND
54TH AVE N.; 14.00'

HOT AFTERNOON

LEVEL: TOM

ROD: DAN

LOCATION: SEC 6, T 31 S, R 16 E, NW 1/4 OF
NE 1/4

SEE FIGURE ON PAGE 6.

GROUND ELEV: 17.47'

W-
2566

P.13

BM BS(+) HI FSC(-) ELEV.

BM, 9.95 23.95 X 14.00

TP, 6.00 23.40 6.55 17.40

MP 5.44 17.96

GND 17.96

PINELLAS Co.

SEPT 9, '70

OWNER: COFFMAN - JOHNSTON EVARGENT
FOUNDATION

BM: RR. INTERSECTION OF 71 ST. AND

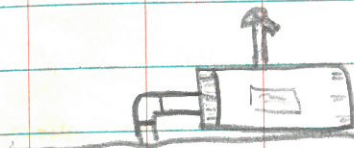
54TH AVE N.; 14.00'

WARM MORNING

LEVEL: DAN

ROD: TOM

LOCATION: SEC 6, T31S, R16E, SW 1/4 OF NW 1/4



GROUND ELEV.
= 17.96'

W-
7785

P.14

BM	BS (+)	H.I.	F.S. (-)	ELEV.
BMx	5.28	43.60	X	38.32
TP ₁	4.83	43.09	5.34	38.26
TP ₂	5.33	43.32	5.10	37.99
MP			6.22	37.10
GROUND				37.10

PINELLAS Co.

SEPT 9, '70

OWNER: PINELLAS POWER SYSTEM

BM: NAIL IN BOTTLE CAP ON SIDE

OF ROAD IN THE WELL FIELD, 38.32'

WARM MORNING

LEVEL: TOM

LOG: DAN

LOCATION: SEC 6 T27S, R17E

N.W. 1/4 OF NW 1/4

WELL + PUMP LOCKED UP IN

PUMP HOUSE.

GROUND ELEV: 37.10'

THIS WELL IS ACTUALLY IN HILLSBORO
Co., JUST OUT OF PINELLAS CO.

W-
7787

P.15

BM BSH H.I. FSI-1 ELEV.

BMx 5.28 43.60 ~~X~~ 38.32

TP₁ 4.83 43.09 5.34 38.26

TP₂ 5.33 43.32 5.10 37.99

TP₃ 5.35 42.45 6.22 37.10

TP₄ 6.05 43.08 5.42 37.03

MP. 5.87 37.21

GROUND 37.21'

PINELLAS Co

SEPT 9, '70

OWNER: PINELLAS POWER SYSTEM

BM: NAIL IN BOTTLE CAP ON SIDE

OF ROAD IN WELL FIELD. 38.32

WARM MORNING

LEVEL: TOM

ROD: DAN

LOCATION: SEC 6, T27S, R17E, NW1/4 OF NW1/4

WELL + PUMP LOCKED UP

GROUND ELEV: 37.21

W-
7793

P. 16

BM	BS (+)	A. I.	FS (-)	ELEV.
BMX	5.28	43.60	5.34	38.32
TP ₁	4.83	43.09	5.34	38.26
TP ₂	5.33	43.32	5.10	37.99
TP ₃	5.35	42.45	6.22	37.10
TP ₄	6.05	43.08	5.42	37.03
TP ₅	6.28	43.49	5.87	37.21
MP			5.46	37.03
GROUND.				37.03'

PINELLAS Co

SEPT 10, 1970

OWNER: PINELLAS POWER SYSTEM

BM: NAIL IN BOTTLE CAP ON SIDE

OF ROAD IN WELL FIELD.

WARM FLOPPING

LEVEL: TOM

LOD: DAM

LOCATION: SEC 6, T27S, R17E, NE1/4 OF NW1/4

PUMP + WELL LOCKED UP IN

PUMP HOUSE

GROUND ELEV: 37.03

W-
7788

P. 17

BH BS(+) H.I. FS(-) ELEV.

BHx 5.38 42.20 ~~36.82~~

TP₁ 6.52 43.52 5.20 37.00

TP₂ 5.03 44.34 4.21 39.31

TP₃ 4.65 43.26 5.73 38.61

TP₄ 5.39 42.38 6.27 36.99

MP 5.59 36.80

GROUND

36.80'

PINELLAS Co

SEPT 10, '70

OWNER: PINELLAS POWER SYSTEM

BH NAIL IN BOTTLE CAP ON ROAD

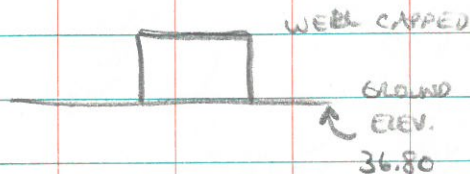
IN WELL FIELD.

HOT AFTERNOON

LEVEL: TOM

ROD: DAN

LOCATION: SEC 6, T27S, R17E,
SE $\frac{1}{4}$ OF NW $\frac{1}{4}$



W-
7794

2.18

BM	BS (4)	H.I.	FS (4)	ELEV.
BM _x	5.81	44.13	X	38.32
TP ₁	5.01	44.22	4.92	39.21
TP ₂	5.29	44.41	5.10	39.12
HD			5.00	39.41
GROUND				39.41

PINELLAS Co.

SEPT 10, '70

OWNER: PINELLAS POWER SYSTEM

BM: NAIL IN BOTTLE CAP IN ROAD W

WELL FIELD

HOT AFTERNOON

LEVEL: TOM

ROD: DAN

LOCATION: SEC 6, T27S, R17E, SE 1/4 OF NE 1/4

WELL IS CAPPED

GROUND ELEV.

39.41'



W-
7795

P. 19

BH	BS (+)	H.I.	FS (-)	ELEV.
BH _x	5.28	43.60	X	38.32
HP			6.10	37.50

PINELLAS CO

SEPT 11, '70

OWNER: PINELLAS POWER SYSTEM

BM: NAIL IN BOTTLE CAP ON SIDE OF
ROAD IN WELL FIELD

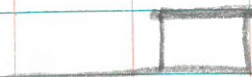
RAINY MORNING

LEVEL: TOM

ROD: DAW

LOCATION: SEC 6, T27S, R1E, SE $\frac{1}{4}$ OF NE $\frac{1}{4}$

WELL CAPPED



GROUND ELEV.

= 37.32