

W. H. WILSON

ENGINEERS'
LEVEL BOOK

No. 412 F

733

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide.

Side Slopes 1 on 1.

For Single Track Embankment.

| H | 0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | H |
|----|------|------|------|------|------|------|------|------|------|------|----|
| 0 | 8.0 | 8.1 | 8.2 | 8.3 | 8.4 | 8.5 | 8.6 | 8.7 | 8.8 | 8.9 | 0 |
| 1 | 9.0 | 9.1 | 9.2 | 9.3 | 9.4 | 9.5 | 9.6 | 9.7 | 9.8 | 9.9 | 1 |
| 2 | 10.0 | 10.1 | 10.2 | 10.3 | 10.4 | 10.5 | 10.6 | 10.7 | 10.8 | 10.9 | 2 |
| 3 | 11.0 | 11.1 | 11.2 | 11.3 | 11.4 | 11.5 | 11.6 | 11.7 | 11.8 | 11.9 | 3 |
| 4 | 12.0 | 12.1 | 12.2 | 12.3 | 12.4 | 12.5 | 12.6 | 12.7 | 12.8 | 12.9 | 4 |
| 5 | 13.0 | 13.1 | 13.2 | 13.3 | 13.4 | 13.5 | 13.6 | 13.7 | 13.8 | 13.9 | 5 |
| 6 | 14.0 | 14.1 | 14.2 | 14.3 | 14.4 | 14.5 | 14.6 | 14.7 | 14.8 | 14.9 | 6 |
| 7 | 15.0 | 15.1 | 15.2 | 15.3 | 15.4 | 15.5 | 15.6 | 15.7 | 15.8 | 15.9 | 7 |
| 8 | 16.0 | 16.1 | 16.2 | 16.3 | 16.4 | 16.5 | 16.6 | 16.7 | 16.8 | 16.9 | 8 |
| 9 | 17.0 | 17.1 | 17.2 | 17.3 | 17.4 | 17.5 | 17.6 | 17.7 | 17.8 | 17.9 | 9 |
| 10 | 18.0 | 18.1 | 18.2 | 18.3 | 18.4 | 18.5 | 18.6 | 18.7 | 18.8 | 18.9 | 10 |
| 11 | 19.0 | 19.1 | 19.2 | 19.3 | 19.4 | 19.5 | 19.6 | 19.7 | 19.8 | 19.9 | 11 |
| 12 | 20.0 | 20.1 | 20.2 | 20.3 | 20.4 | 20.5 | 20.6 | 20.7 | 20.8 | 20.9 | 12 |
| 13 | 21.0 | 21.1 | 21.2 | 21.3 | 21.4 | 21.5 | 21.6 | 21.7 | 21.8 | 21.9 | 13 |
| 14 | 22.0 | 22.1 | 22.2 | 22.3 | 22.4 | 22.5 | 22.6 | 22.7 | 22.8 | 22.9 | 14 |
| 15 | 23.0 | 23.1 | 23.2 | 23.3 | 23.4 | 23.5 | 23.6 | 23.7 | 23.8 | 23.9 | 15 |
| 16 | 24.0 | 24.1 | 24.2 | 24.3 | 24.4 | 24.5 | 24.6 | 24.7 | 24.8 | 24.9 | 16 |
| 17 | 25.0 | 25.1 | 25.2 | 25.3 | 25.4 | 25.5 | 25.6 | 25.7 | 25.8 | 25.9 | 17 |
| 18 | 26.0 | 26.1 | 26.2 | 26.3 | 26.4 | 26.5 | 26.6 | 26.7 | 26.8 | 26.9 | 18 |
| 19 | 27.0 | 27.1 | 27.2 | 27.3 | 27.4 | 27.5 | 27.6 | 27.7 | 27.8 | 27.9 | 19 |
| 20 | 28.0 | 28.1 | 28.2 | 28.3 | 28.4 | 28.5 | 28.6 | 28.7 | 28.8 | 28.9 | 20 |
| 21 | 29.0 | 29.1 | 29.2 | 29.3 | 29.4 | 29.5 | 29.6 | 29.7 | 29.8 | 29.9 | 21 |
| 22 | 30.0 | 30.1 | 30.2 | 30.3 | 30.4 | 30.5 | 30.6 | 30.7 | 30.8 | 30.9 | 22 |
| 23 | 31.0 | 31.1 | 31.2 | 31.3 | 31.4 | 31.5 | 31.6 | 31.7 | 31.8 | 31.9 | 23 |
| 24 | 32.0 | 32.1 | 32.2 | 32.3 | 32.4 | 32.5 | 32.6 | 32.7 | 32.8 | 32.9 | 24 |
| 25 | 33.0 | 33.1 | 33.2 | 33.3 | 33.4 | 33.5 | 33.6 | 33.7 | 33.8 | 33.9 | 25 |
| 26 | 34.0 | 34.1 | 34.2 | 34.3 | 34.4 | 34.5 | 34.6 | 34.7 | 34.8 | 34.9 | 26 |
| 27 | 35.0 | 35.1 | 35.2 | 35.3 | 35.4 | 35.5 | 35.6 | 35.7 | 35.8 | 35.9 | 27 |
| 28 | 36.0 | 36.1 | 36.2 | 36.3 | 36.4 | 36.5 | 36.6 | 36.7 | 36.8 | 36.9 | 28 |
| 29 | 37.0 | 37.1 | 37.2 | 37.3 | 37.4 | 37.5 | 37.6 | 37.7 | 37.8 | 37.9 | 29 |
| 30 | 38.0 | 38.1 | 38.2 | 38.3 | 38.4 | 38.5 | 38.6 | 38.7 | 38.8 | 38.9 | 30 |
| 31 | 39.0 | 39.1 | 39.2 | 39.3 | 39.4 | 39.5 | 39.6 | 39.7 | 39.8 | 39.9 | 31 |
| 32 | 40.0 | 40.1 | 40.2 | 40.3 | 40.4 | 40.5 | 40.6 | 40.7 | 40.8 | 40.9 | 32 |
| 33 | 41.0 | 41.1 | 41.2 | 41.3 | 41.4 | 41.5 | 41.6 | 41.7 | 41.8 | 41.9 | 33 |
| 34 | 42.0 | 42.1 | 42.2 | 42.3 | 42.4 | 42.5 | 42.6 | 42.7 | 42.8 | 42.9 | 34 |
| 35 | 43.0 | 43.1 | 43.2 | 43.3 | 43.4 | 43.5 | 43.6 | 43.7 | 43.8 | 43.9 | 35 |
| 36 | 44.0 | 44.1 | 44.2 | 44.3 | 44.4 | 44.5 | 44.6 | 44.7 | 44.8 | 44.9 | 36 |
| 37 | 45.0 | 45.1 | 45.2 | 45.3 | 45.4 | 45.5 | 45.6 | 45.7 | 45.8 | 45.9 | 37 |
| 38 | 46.0 | 46.1 | 46.2 | 46.3 | 46.4 | 46.5 | 46.6 | 46.7 | 46.8 | 46.9 | 38 |
| 39 | 47.0 | 47.1 | 47.2 | 47.3 | 47.4 | 47.5 | 47.6 | 47.7 | 47.8 | 47.9 | 39 |
| 40 | 48.0 | 48.1 | 48.2 | 48.3 | 48.4 | 48.5 | 48.6 | 48.7 | 48.8 | 48.9 | 40 |

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be $30.6 + (20 - 16) \div 2$ or 2 ft. added to $30.6 = 32.6$. For slopes of 1 on $1\frac{1}{2}$ see inside of back cover.

Copyright, 1914, by Eugene Dietzgen Co.

This Field Book is manufactured of a High Grade 50% Rag Paper having a WATER RESISTING SURFACE, and is sewed with Bing Special Enamel Waterproof thread.

Made in U. S. A.

D

Indexed to page 18 and 1/21/08 mcd
 Indexed to page 97 " 6/10/08 mcd
 Indexed to page 64 - 8/5/08 mcd
 ✓ page 69 9/3/08 mcd
 ✓ page 74 10/19/08 mcd

H

0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40

to be
of ro
exam
30.6

Profile & Cuts - Missouri - Jewell to Lamont 1-2
 Alley bet. 42nd & Marlborough Wightman
 to Park (inc Motor Boxes) 3-7
 Milton St. Water Grades 8-10
 Kurta St. Water Grades 11-13
 Folk to Wightman
 Alley bet. 40th & Central 16-17
 cler. + Dept.
 San Dieguito Dam 14-15-18
 McCaughey St. Water Grades 19-21
 Soledad Terrace Relocation
 of pipelines 23-40
 Commercial St. Grades 41-42
 Lake Hodges Wells #2 34-56 43-47
 Law St. Water Grades from Jewell to Lamont 47-48
 Alley bet. 44th & Highland from Dwight
 to Wightman 49-50
 PROFILE - PIPE LINE FROM
 NEAR SAN DIEGO AQUEDUCT TO
 LAKE HODGES (Well #1 to Hodges) 52-56
 Traverse for pipeline
 from aqueduct to lake 52-61
 profile Well #1 to Well #2 58-63
 Ozark St. for Const. by city
 Not important
 Alley from Mission Beach
 Blvd. to Bayard & Missouri
 between Diamond 64 ✓
 Profile Lake Hodges Well #2 well #3 65-67 ✓
 Aqueduct to rd.
 profile & Alignment from 68-69 ✓
 Hodges Aqueduct 14" P.L. 70-71
 " " 30" P.L. 72-74

Levels - 4' offsets + cuts
 Missouri st - Jewel to Lamont

3-9548

Rayney
King
Baker

1

cut

N.W. Cor Diamond & Precious

H
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40

B.M. 12.39 82.70 70.31

T.P. 6.93 88.00 1.03 81.67

T.P. 11.67 98.99 6.68 87.38

T.P. 16.22 108.69 0.52 98.47

11750 8.6 100.1 100.6 3.0

11700 8.4 100.3 101.0 3.0

10475 F.H. 7.2 101.5 101.2 0.3

10475 F.H. 56EE 7.4 101.3 101.2 0.1

10450 6.5 102.2 101.6 4.1

10400 5.7 103.0 102.4 4.1

9450 5.3 103.4 102.3 3.6

9400 4.6 104.1 104.2 3.3

8450 4.1 104.6 105.2 2.9

8400 3.0 105.7 106.4 2.8

7450 1.1 107.6 107.6 3.5

T.P. 12.96 120.89 0.76 107.93

to t
of r
exam
30.6

120.89

| | | | |
|----------------|------|--------|-------|
| 7+00 | 11.5 | 109.4 | 109.1 |
| 6+50 | 9.4 | 111.5 | 110.8 |
| 6+00 | 8.1 | 112.8 | 112.2 |
| 5+50 | 6.7 | 114.2 | 113.8 |
| 5+00 | 5.4 | 115.5 | 115.4 |
| 4+00 & FH | 5.7 | 115.2 | 115.4 |
| 5+00-5.00 F.W. | 5.9 | 115.0 | 115.4 |
| 4+50 | 3.8 | 117.1 | 116.7 |
| 4+00 | 2.4 | 118.5 | 117.8 |
| 3+50 | 1.7 | 119.2 | 118.5 |
| 3+00 | 1.5 | 119.4 | 119.0 |
| 2+50 | 1.6 | 119.3 | 119.2 |
| 2+00 | 1.6 | 119.3 | 119.3 |
| 1+50 | 1.6 | 119.3 | 119.0 |
| 1+00 | 1.5 | 119.4 | 118.4 |
| 0+50 | 1.7 | 119.2 | 117.3 |
| T.P. | 4.94 | 115.95 | |

cuts

3.8

4.2

4.1

3.9

3.6

4.2

4.4

3.9

4.2

4.2

3.9

3.6

3.5

3.8

4.5

5.4

36327

5700 6.3 356.5 356.5

5750 6.6 357.7 356.4

6+00 7.7 355.6 355.2

T.P. 8.36 354.91

2.89 357.80

0+00 2.9 354.9 354.8

0+50 3.3 354.5 354.2

1+00 4.0 353.8 353.5

1+50 4.2 353.6 353.4

2+00 4.6 353.2 353.2

2+50 4.6 353.2 352.9

3+00 4.7 353.1 352.8

3+50 4.4 353.4 353.1

4+00 4.7 353.1 352.6

4+50 5.2 352.6 352.4

5+00 5.1 352.7 352.2

cuts

4

3.5

3.8

3.9 End 4' N^o Prop Line Unit5' N^o Prop Line Unit3.6 6' N^o Prop Line Unit

3.8

3.8

3.7

3.5

3.8

3.8

4.2

4.0

3.7

4.0

35780

5750

5.6 352.2 351.8

3.9

6+00

7.2 350.6 350.1

4.0 6' NN Prop line Wightman

E Curb Return Univ 2.90 354.90 354.80

5

Meter Boxes from P345

Rainey
King
Baker

5

B.M. B.P. N.W. Cor. Univ. + Marl. 352.87

6.40 359.27

| | | | | | |
|------|---|-----|------|--------|-------|
| 0455 | E | 2'S | 4.9 | 354.4 | 354.2 |
| | | 2'N | 4.9 | 354.4 | |
| 0467 | W | 2'S | 5.3 | 354.0 | 353.8 |
| | | 2'N | 5.2 | 354.1 | |
| 1404 | E | 2'S | 5.5 | 353.8 | 353.6 |
| | | 2'N | 5.4 | 353.9 | |
| 1425 | E | 2'S | 5.6 | 353.7 | 353.5 |
| | | 2'N | 5.6 | 353.7 | |
| 1457 | W | 2'S | 5.8 | 353.4 | 353.2 |
| | | 2'N | 5.8 | 353.5 | |
| 1480 | E | 2'S | 5.8 | 353.5 | 353.4 |
| | | 2'N | 5.9 | 353.4 | |
| 1483 | E | 2'S | 5.9 | 353.4 | 353.4 |
| | | 2'N | 5.8 | 353.5 | |
| 1483 | W | 2'S | 6.1 | 353.2 | 353.1 |
| | | 2'N | 6.0 | 353.3 | |
| 2431 | E | 2'S | 5.8 | 353.5 | 353.2 |
| | | 2'N | 5.8 | 353.5 | |
| 2432 | W | | 6.1 | 353.2 | 353.0 |
| | | | 6.2 | 353.1 | |
| 2449 | E | | 6.0 | 353.3 | 353.2 |
| | | | 6.0 | 353.3 | |
| 2468 | E | | 6.1 | 353.2 | 353.1 |
| | | | 6.0 | 353.3 | |
| T.P. | | | 5.92 | 353.35 | |

4.00 357.25

| | | | | | |
|------|---|--|-----|-------|-------|
| 2472 | W | | 4.1 | 353.3 | 352.9 |
| | | | 4.2 | 353.2 | |
| 3481 | E | | 4.3 | 353.1 | 353.0 |
| | | | 4.3 | 353.1 | |

0.2
0.2

0.2
0.3

0.2
0.3

0.2

0.2

0.2

0.2

0.1

0.0

0.0

0.1

0.1

0.2

0.3

0.3

0.2

0.1

0.1

0.1

0.1

0.2

0.4

0.3

0.1

0.1

| | | | | | |
|-------|---|--------|------|--------|-------|
| | | 357.35 | | | |
| | | 2'S | 4.4 | 353.0 | |
| 3+60 | W | 2'N | 4.5 | 352.9 | 352.6 |
| | | 2'S | 4.3 | 353.0 | |
| 3+70 | E | 2'N | 4.2 | 353.1 | 352.7 |
| | | 2'S | 4.5 | 352.9 | |
| 4+29 | W | 2'N | 4.4 | 353.0 | 352.4 |
| | | 2'S | 4.6 | 352.8 | |
| 4+51 | E | 2'N | 4.6 | 352.8 | 352.4 |
| | | 2'S | 4.7 | 352.7 | |
| 4+77 | E | 2'N | 4.7 | 352.7 | 352.5 |
| | | 2'S | 4.7 | 352.7 | |
| 4+86 | W | 2'N | 4.7 | 352.7 | 352.3 |
| | | 2'S | 5.3 | 352.1 | |
| 5+56 | W | 2'N | 5.2 | 352.2 | 351.8 |
| | | 2'S | 7.0 | 350.4 | |
| 6+04 | E | 2'N | 6.9 | 350.5 | 350.2 |
| | | 2'S | 5.2 | 352.2 | |
| 57.33 | W | 2'N | 5.1 | 352.3 | 352.1 |
| 00 | | | 7.01 | 350.34 | |
| 5+50 | | | 5.08 | 352.27 | |

7

| |
|-----|
| 0.4 |
| 0.3 |
| 0.3 |
| 0.4 |
| 0.5 |
| 0.6 |
| 0.2 |
| 0.2 |
| 0.2 |
| 0.4 |
| 0.4 |
| 0.3 |
| 0.4 |
| 0.2 |
| 0.2 |
| 0.3 |
| 0.1 |
| 0.2 |

Merlin Dr. from Kenwood st
to Iona Dr.
H off 10' E. G

8

B.M. Lt. 9 Merlin 3's.s. line Kenwood st.

12.36 221.60 209.24

0+50 9.3 212.3 212.5 3.2

1+00 5.5 216.1 216.2 3.4

1+50 1.5 220.1 220.0 3.6

T.P. #1 0.14 221.46

12.96 234.42

2+00 10.6 223.8 223.6 3.7

2+50 7.2 227.2 226.8 3.9

3+00 4.4 230.0 229.6 3.9

3+50 1.6 232.8 232.0 4.3

T.P. #2 0.37 234.05

10.97 245.02

4+00 10.1 234.9 234.4 4.0

4+50 7.7 237.3 236.8 4.0

5+00 5.4 239.6 239.2 3.9

5+50 3.0 242.0 241.6 3.9

6+00 0.4 244.6 244.0 4.1

245.02

T.P.#3

0.34 244.68

12.56 257.24

6+50

10.1 247.1 246.4

4.2

7+00

8.0 249.2 248.6

4.1

7+50

5.6 251.6 251.1

4.0

8+00

3.5 253.7 253.2

4.0

8+50

1.4 255.8 255.2

4.1

T.P.#4

0.28 256.96

12.96 269.92

9+00

12.1 257.8 257.1

4.2

9+50

10.1 259.8 259.4

3.9

10+00

8.1 261.8 261.4

3.9

10+50

5.9 264.0 263.2

4.3

11+00

4.1 265.8 265.5

3.8

11+50

1.8 268.1 267.6

4.0

T.B.M. Set T.P.#5

0.44 269.48

12.03 281.51

on C.T. Hub Cor. Lots 12-13

cuts

76

286.51

| | | | | | |
|------|-----|---------|-------|--------|--------|
| 7.1 | 4.3 | 127.00 | 10.9 | 270.6 | 269.8 |
| | 4.3 | 127.50 | 8.3 | 273.2 | 272.4 |
| 6.1 | 4.2 | 137.00 | 6.0 | 275.5 | 274.8 |
| 7.2 | 4.3 | 137.50 | 3.5 | 278.0 | 277.2 |
| 7.1 | 4.2 | 147.00 | 1.2 | 280.3 | 279.6 |
| 8.1 | | T.P.#6 | 12.72 | 268.79 | |
| 8.1 | | | 0.05 | 268.84 | |
| 7.1 | | T.P.#7 | 12.76 | 256.08 | |
| | | | 0.70 | 256.78 | |
| 9.1 | | T.P.#8 | 12.57 | 244.21 | |
| 9.1 | | | 0.25 | 244.46 | |
| 10.1 | | T.P.#9 | 12.72 | 231.74 | |
| 10.1 | | | 0.24 | 231.98 | |
| 11.1 | | T.P.#10 | 12.46 | 219.52 | |
| 11.1 | | | 1.11 | 220.63 | |
| 12.1 | | T.P.#11 | 11.39 | 209.24 | 209.24 |

corr.

Kurta St. Water
Grades

| Station | Prop. Line | 5' off | 4.6 | 2.5 | 2.3 |
|-------------------------|------------|--------|------|------|------|
| BM. N.W. Cor. Rosecrans | | | | | 2.97 |
| 4.13 | 7.10 | | | | |
| 0+00 | | | | | |
| 0+45 | F.H. | 4 | 4.6 | 2.5 | 2.3 |
| 0+40 | Prop. line | | 5.0 | 2.1 | 2.3 |
| 0+50 | | | 4.7 | 2.4 | 2.4 |
| 1+00 | | | 4.8 | 2.3 | 2.6 |
| 1+50 | | | 4.9 | 2.2 | 2.7 |
| 2+00 | | | 4.7 | 2.4 | 2.8 |
| 2+50 | | | 4.9 | 2.2 | 2.9 |
| 3+00 | | | 4.9 | 2.2 | 3.0 |
| 3+50 | | | 5.1 | 2.0 | 3.1 |
| 4+00 | | | 5.0 | 2.1 | 3.2 |
| 4+50 | | | 5.2 | 1.9 | 3.2 |
| 5+00 | | | 5.2 | 1.9 | 3.2 |
| 5+50 | | | 5.2 | 1.9 | 3.0 |
| 6+00 | | | 5.3 | 1.8 | 2.8 |
| T.P.#1 | | | 5.26 | 1.84 | 1 |
| 5.18 | 7.02 | | | | |

Cuts

5
14.5 ft

Rainey
King
Baker

11

0.2 int. w/ existing line Rosecrans

0.2

0.2

3.3

3.2

3.0

3.1

2.8

2.7

2.4

2.4

2.2

2.2

2.4

2.5

7.02

| | | | | |
|-------|-----|-----|-----|-----|
| 6+50 | 5.0 | 2.0 | 2.8 | 2.7 |
| 7+00 | 4.9 | 2.1 | 2.8 | 2.8 |
| 7+50 | 5.3 | 1.7 | 2.7 | 2.5 |
| 8+00 | 5.5 | 1.5 | 2.6 | 2.6 |
| 8+50 | 5.5 | 1.5 | 2.6 | 2.6 |
| 9+00 | 5.5 | 1.5 | 2.6 | 2.6 |
| 9+50 | 5.4 | 1.6 | 2.4 | 2.7 |
| 10+00 | 5.4 | 1.6 | 2.3 | 2.8 |
| 10+50 | 5.8 | 1.2 | 2.2 | 2.5 |
| 11+00 | 5.9 | 1.1 | 2.0 | 2.6 |
| 11+50 | 5.9 | 1.1 | 1.9 | 2.7 |
| 12+00 | 6.0 | 1.0 | 1.8 | 2.7 |
| 12+50 | 6.3 | 0.7 | 1.8 | 2.4 |
| 13+00 | 5.9 | 1.1 | 1.7 | 2.9 |
| 13+50 | 5.7 | 1.3 | 1.9 | 2.9 |
| 14+00 | 5.7 | 1.3 | 2.3 | 2.5 |
| 14+50 | 5.1 | 1.9 | 2.6 | 2.8 |
| | 4.2 | | | |

7.02

14780 4.2 2.8 2.8

S curb Pacific + Kurtz 3.80 3.22

Smith St.

7.02

0+00 5.5 1.5 2.2

50ft 3.6 3.4
0+40 FH 4.5 2.5 2.2

0+50 5.1 1.9 2.4

1+00 4.8 2.2 2.6

1+50 4.4 2.4 2.8

2+00 4.3 2.7 3.1

2+50 4.2 2.8 3.4

3+00 3.7 3.3 3.6

3+21E 3.9 3.1 3.8

3.92 3.70

Cuts

3

3.5

1.2

0.3

3.0

3.1

3.3

3.1

2.9

3.2

2.8

int. w/ proposed line

Kurtz St.

San Dieguito 4-16-48

Rainey
King
Baker

124

Bytress Water El. 246.90

| | | | |
|-----|---------|-------|------|
| #1 | O.K. | | |
| #2 | .01 E. | | |
| #3 | .01 E. | | |
| #4 | O.K. | Arch# | |
| #5 | O.K. | 6 | O.K. |
| #6 | O.K. | 7 | O.K. |
| #7 | O.K. | 8 | O.K. |
| #8 | .01 E. | | |
| #9 | .015 E. | | |
| #10 | O.K. | | |
| #11 | O.K. | | |
| #12 | .005 W. | | |
| #13 | O.K. | | |

| | | | |
|--------|------|--------|--------|
| B.M. | 5.10 | 255.10 | 2.50 |
| #1 | | 4.90 | 250.20 |
| #2 | | 4.92 | 250.18 |
| #3 | | 4.91 | 250.19 |
| #4 | | 4.96 | 250.14 |
| #5 | | 5.05 | 250.05 |
| Arch#6 | | 4.12 | 250.98 |
| #6 | | 5.00 | 250.10 |
| Arch#7 | | 4.10 | 251.00 |
| #7 | | 5.03 | 250.07 |
| Arch#8 | | 4.07 | 251.03 |
| #8 | | 5.05 | 250.05 |
| #9 | | 5.01 | 250.09 |
| #10 | | 4.98 | 250.12 |
| #11 | | 4.96 | 250.14 |
| #12 | | 5.03 | 250.07 |
| #13 | | 5.10 | 250.00 |

Void
 See P. 15

San Dieguito
4-16-48

B.M. 250.00

4.99 254.99

Butt #12 4.91 250.08

" #11 4.85 250.14

" #10 4.88 250.11

" #9 4.91 250.08

" #8 4.95 250.04

Arch #8 3.97 251.02

T.P. 4.95 250.04

5.12 255.16

Arch #7 4.17 250.99

Butt #7 5.10 250.06

Arch #6 4.21 250.95

Butt #6 5.09 250.07

Butt #5 5.15 250.01

Butt #4 5.06 250.10

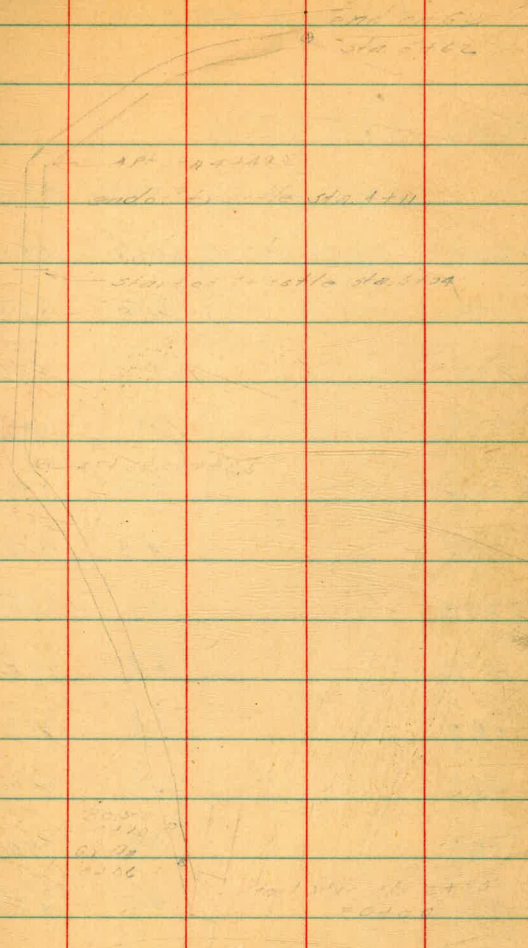
Butt #3 5.00 250.16

Butt #2 5.02 250.14

Butt #1 4.99 250.17

B.M. 5.16

15



Alley - Polk - Whitman
 Between 40th & Central
 Profile 4' off sets

| | | | | Central | |
|------|------|--------|------|---------|-------|
| B.M | 3.69 | 353.83 | | 352.14 | 4th |
| | 5.49 | 360.73 | 0.89 | 355.24 | J |
| 0+00 | | | 3.60 | 357.1 | 352.9 |
| +50 | | | 2.8 | 357.9 | 352.4 |
| 1+00 | | | 3.3 | 357.4 | 353.9 |
| +50 | | | 3.8 | 356.9 | 355.4 |
| 2+00 | | | 4.3 | 356.4 | 354.9 |
| +50 | | | 4.7 | 356.0 | 354.4 |
| 3+00 | | | 4.9 | 355.8 | 353.9 |
| +50 | | | 5.3 | 355.4 | 353.4 |
| 4+00 | | | 6.3 | 354.4 | 352.9 |
| +50 | | | 6.9 | 353.8 | 352.4 |
| 5+00 | | | 8.0 | 352.7 | 351.9 |
| +50 | | | 8.8 | 351.9 | 351.4 |
| 6+00 | | | 9.5 | 351.2 | 350.9 |
| T.P. | 4.68 | 355.82 | 9.59 | 351.14 | |

Cuts
 Rainey
 King
 Baker
 4-22-48
 E 5' E Alley
 16

N.W. Cor
 B.P.

3.7 Prop line polk curb

5.0

5.0

5.0

5.0

5.1

5.4

5.5

5.0

4.9

4.3

4.0

3.8

855.82

| | | | | | |
|------|------|--------|-------|--------|--------|
| 0+00 | | | 5.5 | 350.3 | 350.4 |
| +50 | | | 5.2 | 350.6 | 349.8 |
| 1+00 | | | 4.8 | 351.0 | 349.2 |
| +50 | | | 4.9 | 350.9 | 348.6 |
| 2+00 | | | 4.8 | 351.0 | 348.0 |
| +50 | | | 5.1 | 350.7 | 347.4 |
| 3+00 | | | 5.6 | 350.2 | 346.8 |
| +50 | | | 5.9 | 349.9 | 346.2 |
| 4+00 | | | 6.6 | 349.2 | 345.6 |
| +50 | | | 7.8 | 348.0 | 345.0 |
| 5+00 | | | 9.2 | 346.6 | 344.4 |
| +50 | | | 10.1 | 345.7 | 343.8 |
| 6+00 | | | 12.0 | 343.8 | 343.3 |
| | | | 12.51 | 343.31 | curve |
| T.P. | 5.30 | 356.10 | 5.02 | 350.80 | |
| B.M. | | | 3.96 | 352.14 | 352.14 |

17

| | |
|-----|------|
| 3.4 | |
| 4.3 | |
| 5 | |
| 4.3 | -0.9 |
| 5.8 | 4.9 |
| | -1.8 |
| 6.5 | 4.7 |
| | -1.8 |
| 6.8 | 5.0 |
| | -1.8 |
| 6.9 | 5.1 |
| | -1.8 |
| 7.2 | 5.4 |
| | -1.8 |
| 7.1 | 5.3 |
| | -1.8 |
| 6.5 | 4.7 |
| | -0.9 |
| 5.7 | 4.8 |

5.4

4.0

3-20-48
Water el. 242

Buttress

| | |
|------|-------|
| 1 | OK |
| 2 | OK |
| 3 | OK |
| 4 | OK |
| 5 | OK |
| 6 | .01W |
| 7 | .02W |
| 8 | .005E |
| 9 | .01E |
| 10 | OK |
| 11 | .005W |
| 12 | .01W |
| 13 | OK |
| Arch | |
| 6 | .005W |
| 7 | OK |
| 8 | .005W |

San Dieguito
Copied from scratch
Pad
Rainey
King
Baker

14

Butt.

| | |
|------|--------|
| 13 | 250.00 |
| 12 | 250.09 |
| 11 | 250.15 |
| 10 | 250.12 |
| 9 | 250.07 |
| 8 | 250.04 |
| 7 | 250.00 |
| 6 | 250.08 |
| 5 | 250.03 |
| 4 | 250.11 |
| 3 | 250.17 |
| 2 | 250.15 |
| 1 | 250.17 |
| Arch | |
| 8 | 251.02 |
| 7 | 250.99 |
| 6 | 250.96 |

McCauley St.
Water grades

| Comp. Man | NE corner | 11A.32 | | |
|-----------|-----------|--------|--------|-------------------------|
| | 4.42 | 118.74 | | |
| TP | | 12.46 | 106.28 | |
| | 2.10 | 108.38 | | |
| 15+00 | | 13.3 | 95.1 | 92.0 95.0 |
| 14+50 | | 11.9 | 96.5 | 96.0 |
| 14+00 | | 8.7 | 99.7 | 100.0 |
| 13+50 | | 5.5 | 102.9 | 104.4 |
| 13+00 | | 1.6 | 106.8 | 109.0 |
| TP | | 0.42 | 107.96 | |
| | 12.31 | 120.27 | | |
| 12+50 | | 8.4 | 111.9 | 113.5 |
| 12+00 | | 3.9 | 116.4 | 117.0 |
| TP | | 0.15 | 120.12 | |
| | 12.50 | 132.62 | | |
| 11+50 | | 11.2 | 121.4 | 120.8 |
| 11+00 | | 6.3 | 126.3 | 126.0 |
| 10+50 | | 1.0 | 131.4 | 131.2 |

£ 10'5 £ street

19

6.6

4.0

3.5

3.5

3.5

3.5

3.5

4.1

3.8

3.7

132.62

TP 0.00 132.62

11.15 143.77

10+00 7.3 136.5 136.0 4.0

9+50 2.9 140.9 141.0 3.6

TP 0.13 143.64

6.38 150.02

9+00 5.3 144.7 144.6 3.6

8+50 3.3 146.7 146.6 3.6

8+00 4.1 145.9 145.6 3.8

7+50 6.6 143.4 143.4 3.5

7+00 9.5 140.5 140.2 3.8

6+50 12.9 137.1 136.5 4.1

TP 12.92 137.10

2.62 139.72

6+00 6.2 133.5 133.0 4.0

5+50 9.3 130.4 130.4 3.5

5+00 11.2 128.5 128.5 3.5

4+50 12.8 126.9 126.7 3.7

199.4.26.9

21

139.72

TP 1.52 128.44 12.80 126.92

4+00 3.1 125.3 125.0 3.8

3+50 4.7 12³2.7 123.2 4.0

3+00 6.5 121.9 122.0 3.4

2+50 6.7 121.7 122.0 3.2

2+00 6.1 122.3 122.3 3.5

1+50 5.6 122.8 122.7 3.6

1+00 5.2 123.2 123.0 3.7

0+50 4.5 123.9 123.4 4.0

0+00 3.5 124.9

T.P. E. Curb C 5.49 123.03
122.95

30A 122.0 122.0

FH & Eline Mandata 121.7 122.0

1 143.4

Eline Justin 5' off 144.8 145.2

C00

F0.3

P1.8

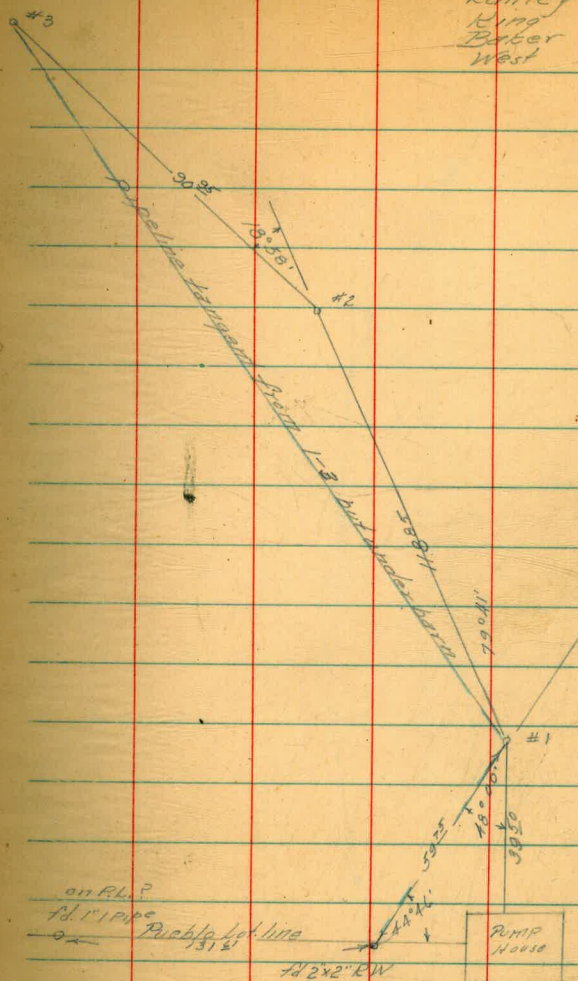
P0.4

22

Soledad Terrace
location of existing
Pipelines

Rainey
King
Butler
West

23

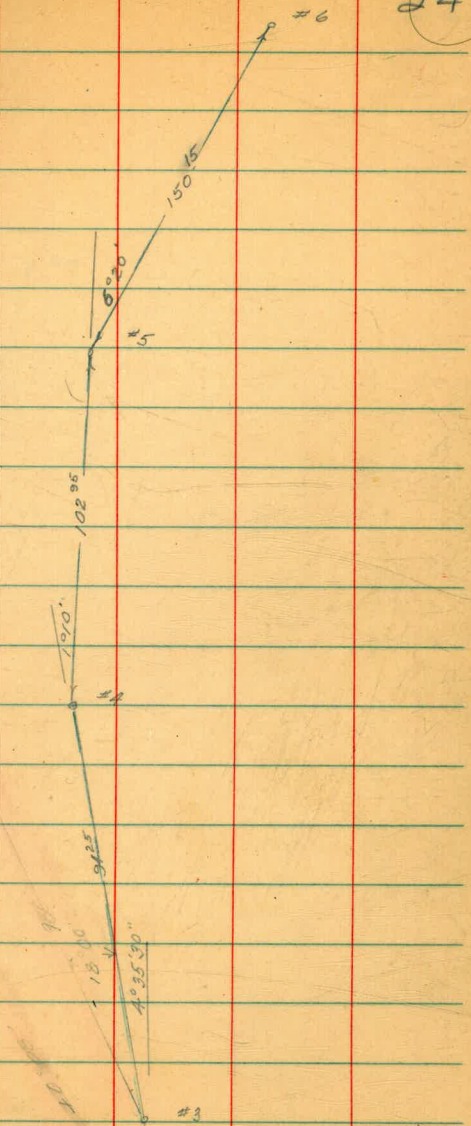


on R.L.P.
1d. 1.1 P.P.
Pueblo lot line
31.2'

1d 2x2" RW
Hub 2' Long
Stamped
5-6
also 2'x2" Hub
029 40

occupied long hub
Basis of bearings
Pueblo lot line

Hand - 10
working





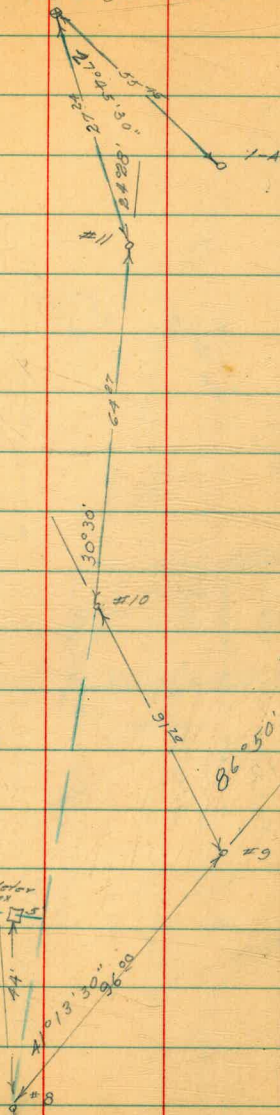
#12 on gate Valve

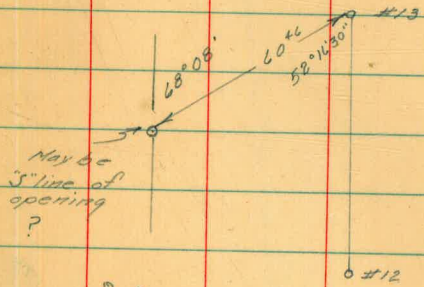
26

pipe ran
from #5-10
but through
Greenhouse

2" water

Water
Box





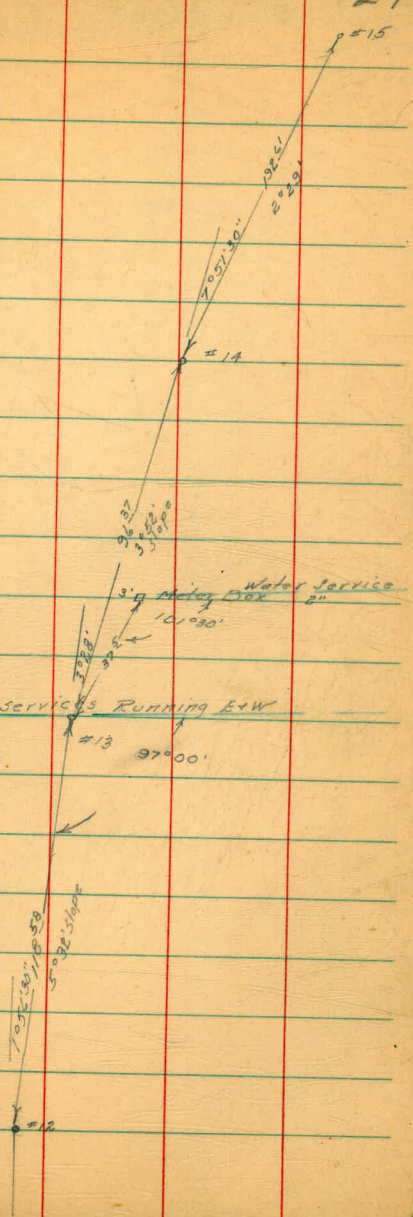
May be
3" line of
opening
?

20' concrete Mon. R.F. 219
W-line Road?
Alto Vista Rd.

#12



Water Services Running E-W

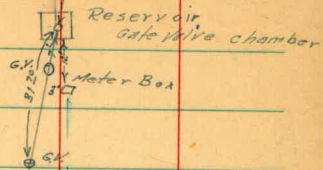


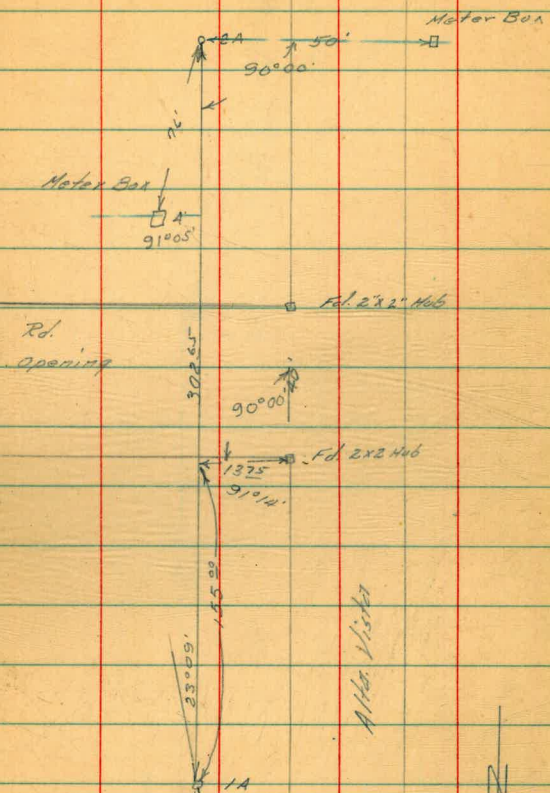
#14

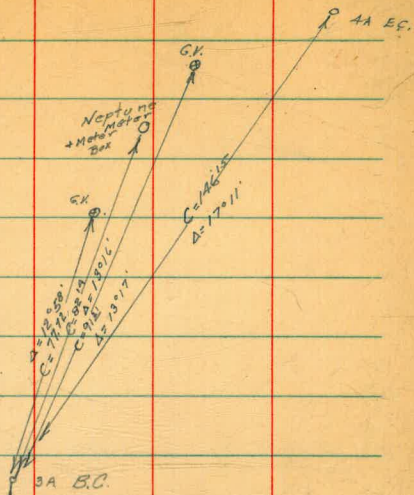
Water Service
3" Meter Box
10' 0.00'

#13

#12







15653
15654
15655

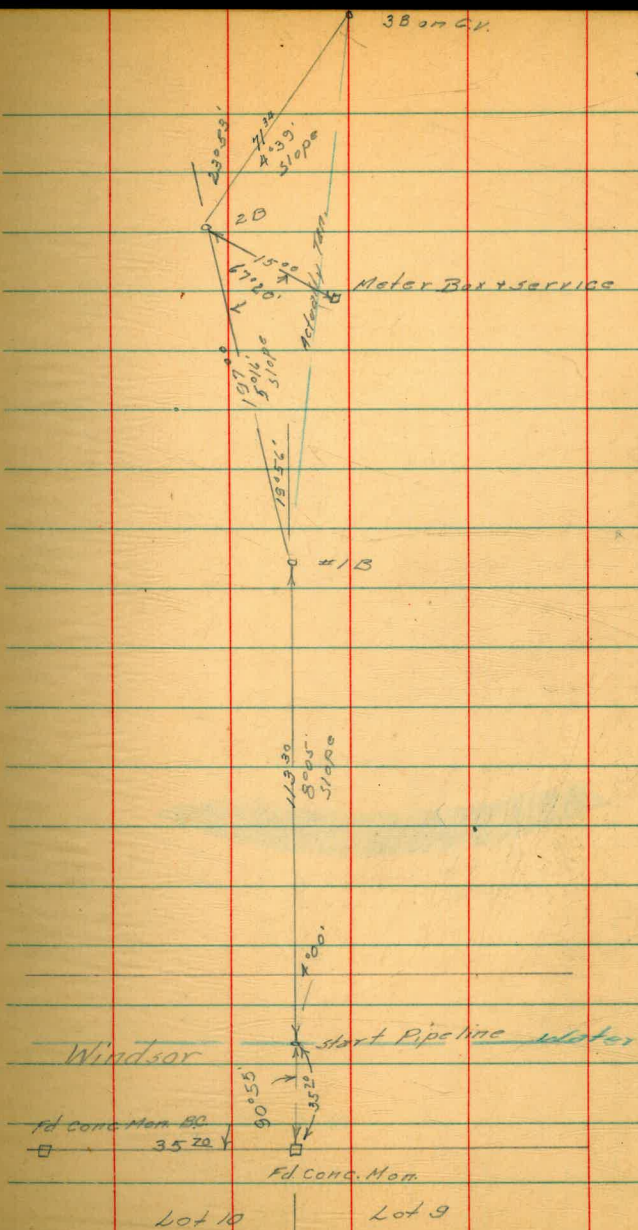
or 7000
6 2A

End of line

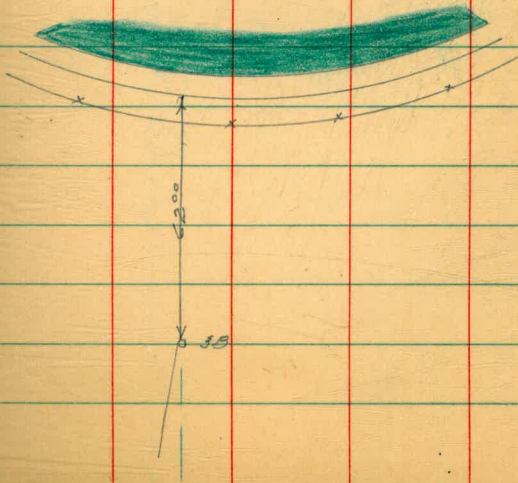
2.9.33

A.A.E.C.

1.6.33
A.A.E.C.
Chambers



Reservoir

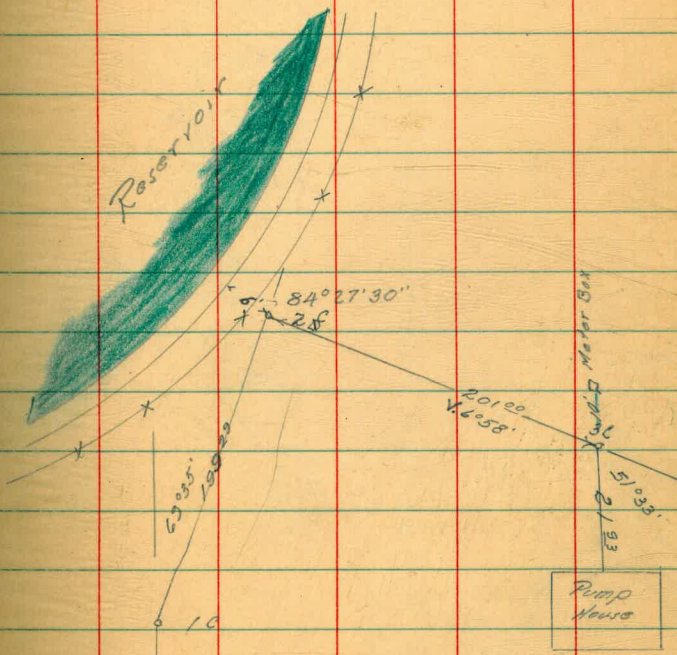




12:00
 12:10
 12:20
 12:30
 12:40
 12:50
 1:00
 1:10
 1:20
 1:30
 1:40
 1:50
 2:00
 2:10
 2:20
 2:30
 2:40
 2:50
 3:00
 3:10
 3:20
 3:30
 3:40
 3:50
 4:00
 4:10
 4:20
 4:30
 4:40
 4:50
 5:00
 5:10
 5:20
 5:30
 5:40
 5:50
 6:00
 6:10
 6:20
 6:30
 6:40
 6:50
 7:00
 7:10
 7:20
 7:30
 7:40
 7:50
 8:00
 8:10
 8:20
 8:30
 8:40
 8:50
 9:00
 9:10
 9:20
 9:30
 9:40
 9:50
 10:00
 10:10
 10:20
 10:30
 10:40
 10:50
 11:00
 11:10
 11:20
 11:30
 11:40
 11:50
 12:00

Los Akos Rd

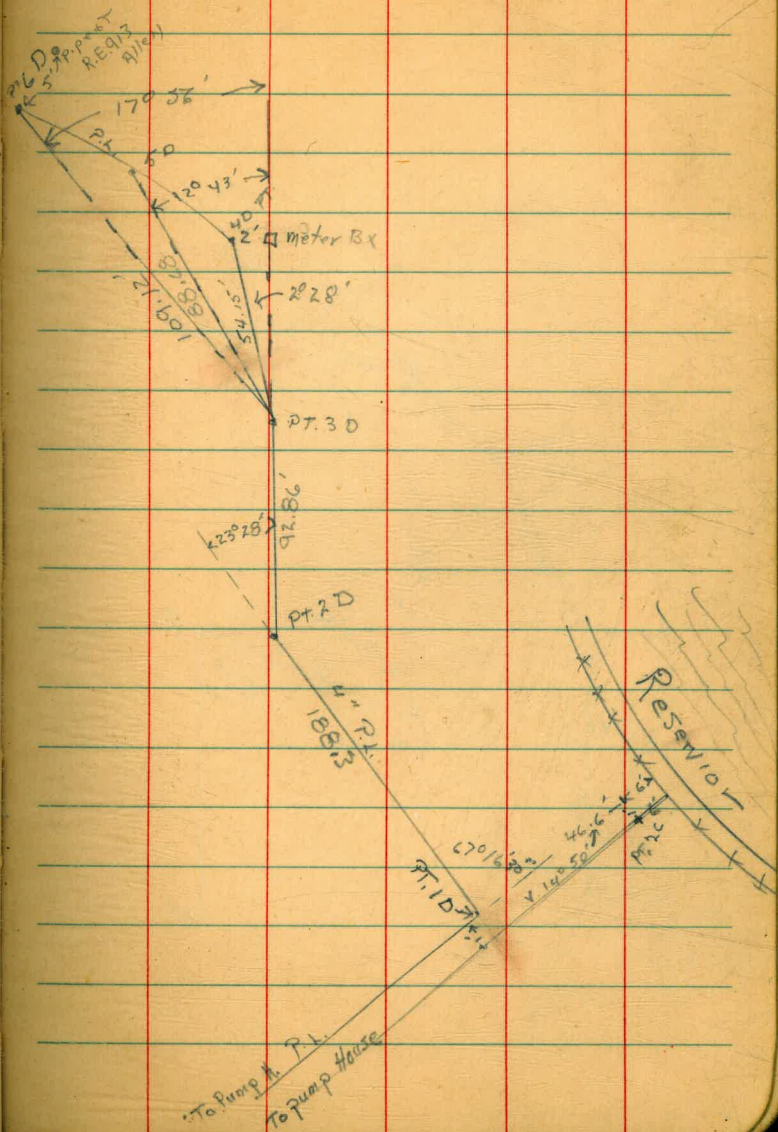
Y D

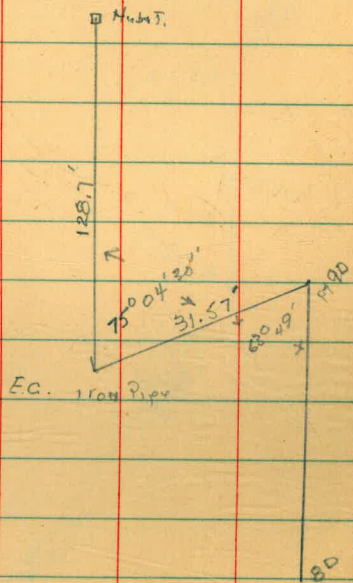


11/10

4" P.L. # D.

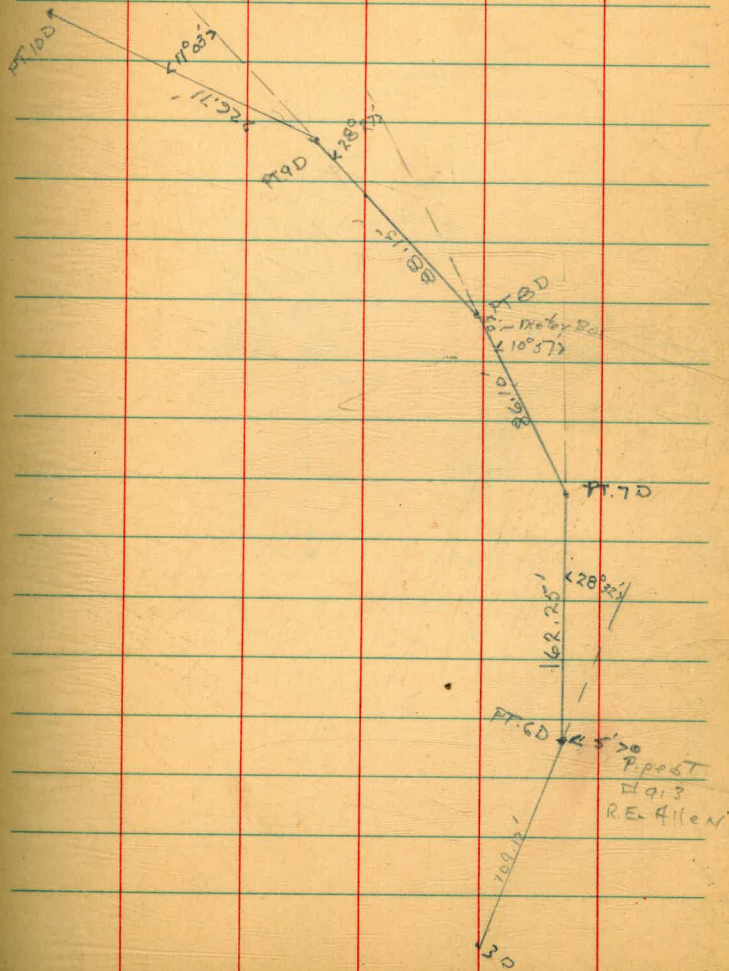
END
CURVE





D line
4" D line

37



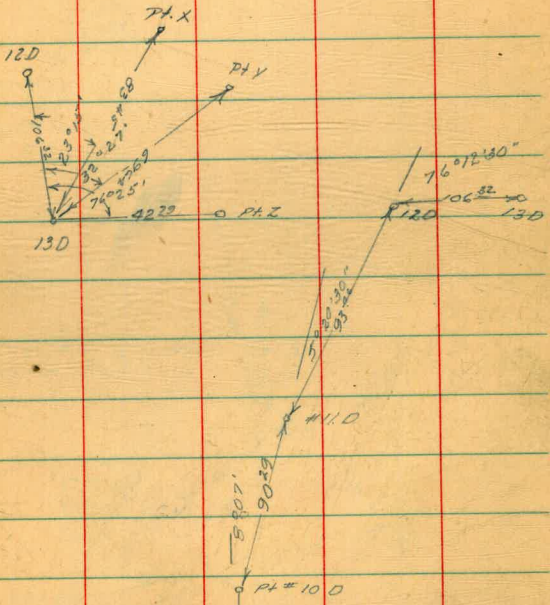
July 1, 1948

Rainey
Cling
Baker
West

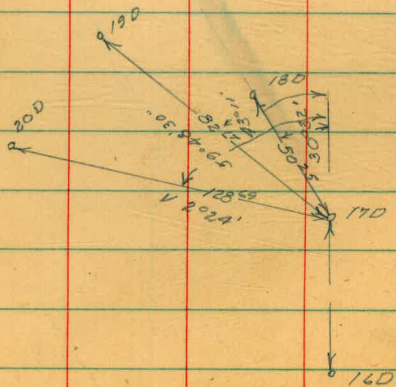
38

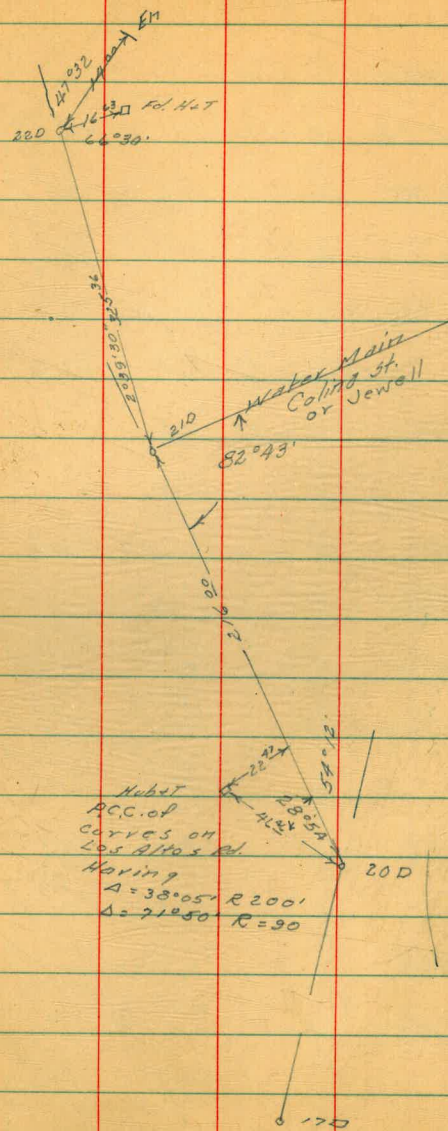


Note: Pts. X, Y are 2 pts



Line actually on curve
with E.C. at 200





Commercial
St for Const.

| | | | | |
|---------------------------|------|-------|-------|-----|
| | | | 59.20 | |
| | 5.74 | 64.94 | | |
| 160+50 ³¹ ZC. | 2.7 | 62.2 | 54.9 | 7.3 |
| 160+75 | 2.8 | 62.1 | 54.7 | 7.4 |
| 161+00 | 2.9 | 62.0 | 54.6 | 7.4 |
| 161+25 | 3.1 | 61.8 | 54.4 | 7.4 |
| 161+50 | 3.3 | 61.6 | 54.3 | 7.3 |
| 161+75 | 3.4 | 61.5 | 54.1 | 7.4 |
| 162+00 | 3.6 | 61.3 | 54.0 | 7.3 |
| 162+24 ³³ E.C. | 3.8 | 61.1 | 53.9 | 7.2 |
| | 4.0 | | | |
| 162+50 | 3.8 | 60.9 | 53.8 | 7.1 |
| | 4.3 | | | |
| 163+00 | 4.0 | 60.6 | 53.6 | 7.0 |
| | 4.5 | | | |
| 163+50 | 4.3 | 60.4 | 53.6 | 6.8 |
| 164+00 | 4.9 | 60.0 | 53.6 | 6.4 |
| 164+50 | 5.4 | 59.5 | 53.6 | 5.9 |
| 165+00 | 5.5 | 59.4 | 53.6 | 5.8 |
| 165+50 | 6.1 | 58.8 | 53.6 | 7.4 |
| 166+00 | 6.5 | 58.4 | 53.3 | 7.3 |

Con

41

| | | | | |
|---------------------------------|-------|-------|-------|-----|
| Hand set Comm + 26th | | 59.20 | | |
| | 64.94 | | | |
| 166+49 ⁰³ | 6.9 | 58.0 | 52.8 | 7.4 |
| 166+94 ²³ | 7.2 | 57.2 | 49.6 | 7.6 |
| ck to BM. | 5.74 | 59.20 | | |
| Profile after Const. | | | | |
| | 6 | 65.17 | | |
| | 4.04 | 69.21 | | |
| 156+09.31 | 12.2 | 57.0 | | |
| 156+41.25 | 10.0 | 59.2 | | |
| 156+73 | 8.9 | 60.3 | | |
| 157+106 | 10.1 | 59.1 | | |
| | 6.3 | 69.1 | 62.81 | |
| 154+11 bond | 8.0 | 61.1 | | |
| 154+20 | 9.4 | 59.7 | | |
| 154+51 | 10.3 | 58.8 | | |
| 154+70 | 13.0 | 56.1 | | |

Commercial St. Cuts
For Const.

| | | | | Nail in Tr.P |
|-----------------|------|------|------|--------------|
| B.M. | 3.40 | 8.94 | 5.54 | 8+212+50 |
| 213+16 BK. | | | | |
| 213+14.14 Ahead | | 4.9 | 4.0 | -4.0 |
| 213450 | | 4.3 | 4.6 | -4.0 |
| 214 | | 3.7 | 5.2 | -4.0 |
| +50 | | 4.7 | 4.2 | -4.0 |
| 215 | | 4.9 | 4.0 | -4.0 |
| +50 | | 5.1 | 3.8 | -4.0 |
| 216 | | 5.7 | 3.2 | -4.0 |
| +50 | | 6.4 | 2.5 | -4.0 |
| 217 | | 7.2 | 1.7 | -4.0 |
| +50 | | 7.2 | 1.7 | -4.0 |
| 218 | | 7.1 | 1.8 | -4.0 |
| | | 6.39 | 2.55 | |

cut.

42

- 80
- 80
- 92
- 82
- 80
- 78
- 72
- 65
- 57
- 57
- 58

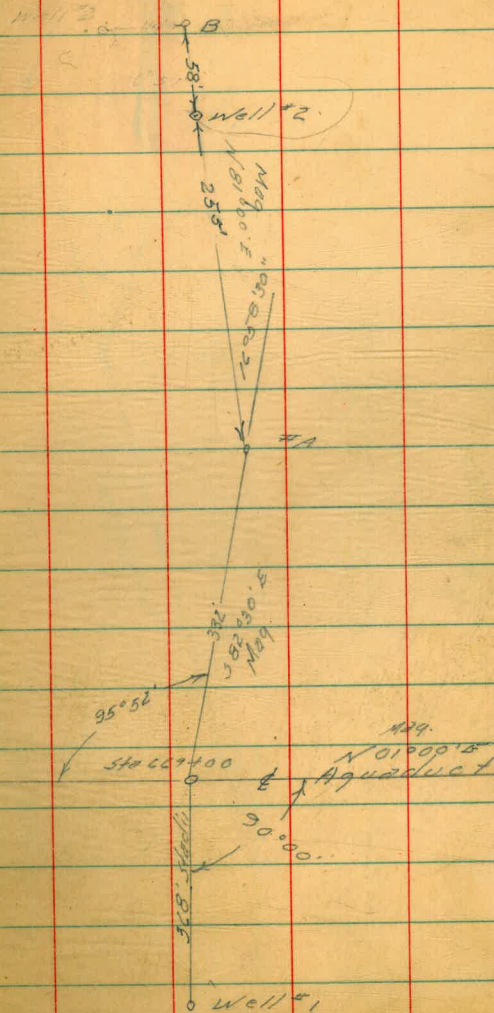
0.1104

B.M. 3.40 8.94 5.54

Lake Hodges
Wells #2-3-4-5-6-7

June 13, 1948

Rairney 43
Baker
West



44

150' (Well #3) out

5590008
1259

35° 41'

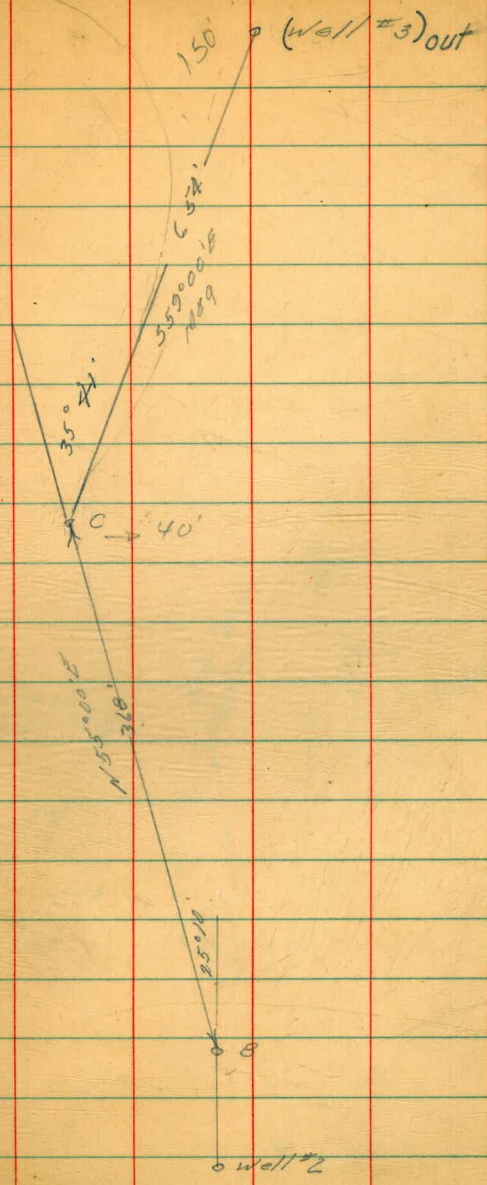
C 40'

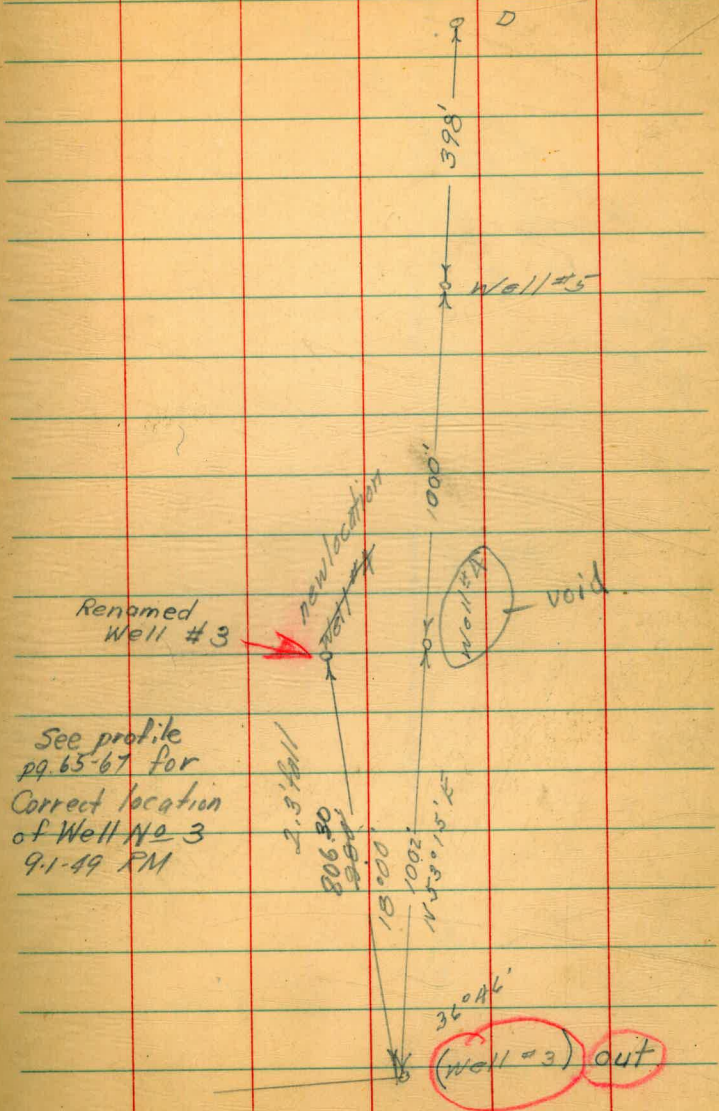
N 55° 00' E
318'

25° 14'

B

Well #2



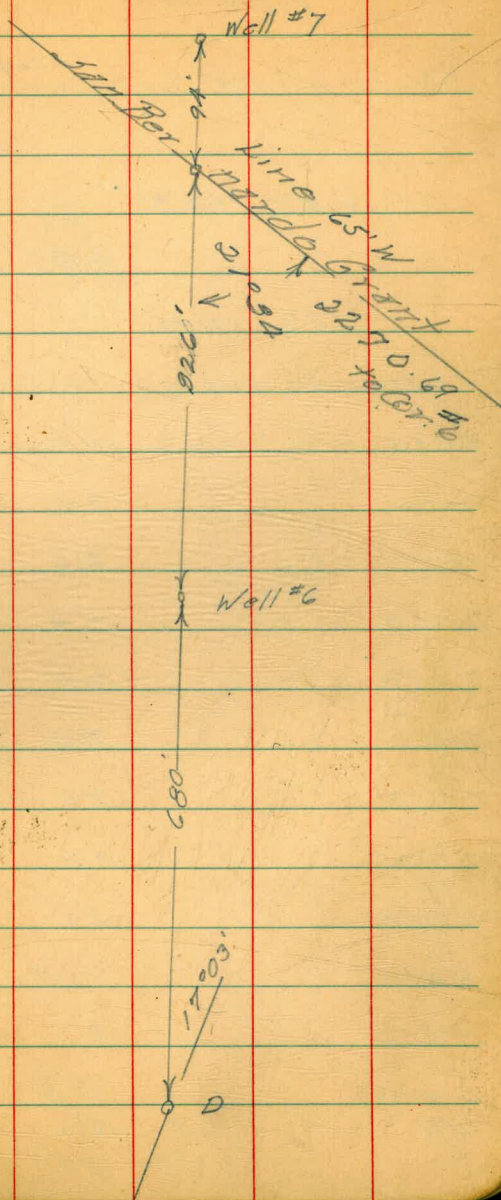


Renamed Well #3

See profile pg. 65-67 for Correct location of Well No 3 9-1-49 RM

2.5' fall
206.30
199.80

32°46'
(Well #3) out



Low St. Water grades
from Jewell to Lamont

July 3, 1948
Rainey
King
West

47

BM. 10' on SW Cor. ^{Low} Lamont

142.36

6.47 148.83

9.87 138.96

2.49 141.45

0+00

int. w/ existing line Jewell st.

0+50 10.0 131.5 131.2

3.8

0+60 prop line

1+00 7.0 134.5 132.7

5.3

1+50 6.0 135.5 133.8

5.2

2+00 5.6 135.9 134.4

5.0

2+50 6.2 135.3 134.3

4.5

3+00 7.0 134.5 134.1

3.9

3+50 7.2 134.3 134.0

3.8

4+00 7.4 134.1 133.8

3.8

4+50 7.5 134.0 133.6

3.9

5+00 7.5 134.0 133.4

4.1

5+50 7.1 134.4 133.2

4.7

6+00 5.8 135.7 134.1

5.1

L.H. 4.6 136.9 135.3

1.6

(5) 4.7 136.8 135.3

1.5

141.45

| | | | |
|------|------|--------|-------|
| 6+50 | 4.8 | 136.7 | 135.6 |
| 7+00 | 3.7 | 137.8 | 138.4 |
| 7+50 | 1.6 | 139.9 | 141.1 |
| T.P. | 1.57 | 139.88 | |

9.98 149.86

| | | | |
|------------|------|--------|-------|
| 8+00 | 7.0 | 142.9 | 144.0 |
| 8+50 | 3.0 | 146.9 | 146.3 |
| 9+00 | 1.2 | 148.7 | 147.9 |
| 9+50 | 1.5 | 148.4 | 148.5 |
| 10+00 | 1.8 | 148.1 | 148.1 |
| 10+50 | 3.2 | 146.7 | 146.9 |
| 11+00 | 4.6 | 145.3 | 144.8 |
| 11+50 | 8.8 | 141.1 | 142.6 |
| ck to P.M. | 7.43 | 142.43 | |

4.6
2.9
2.3

2.4
4.1
4.3
3.4
3.5
3.3
4.0
C3.5

10' 11+40 = Prop. line w/ Lament

Coast. Alley Dwight - Wightman
44th - Highland - 6" P.L.

| | | | | | |
|------|------|--------|-----|--------|-------------------------------|
| B.M. | 2.90 | 350.43 | | 347.53 | N.W.B.P. Dwight - Highland |
| 0+00 | | | 5.0 | 345.4 | 345.2 |
| +50 | | | 3.6 | 346.8 | 346.3 |
| 1+00 | | | 2.8 | 347.6 | 347.3 |
| +50 | | | 1.5 | 348.9 | 348.3 |
| 2+00 | | | 1.1 | 349.3 | 349.2 |
| +50 | | | 0.1 | 350.3 | 349.8 |

T.P. 7.90 357.96 0.37 350.06

| | | | | | |
|------|--|--|-----|------|-------|
| 3+00 | | | 6.6 | 51.4 | 350.4 |
| +50 | | | 6.3 | 51.7 | 350.8 |
| 4+00 | | | 5.7 | 52.3 | 351.3 |
| +50 | | | 5.7 | 52.3 | 351.8 |
| 5+00 | | | 4.8 | 53.2 | 352.4 |
| +50 | | | 4.8 | 53.2 | 352.8 |
| 6+00 | | | 5.1 | 52.9 | 353.1 |
| 6+50 | | | 5.1 | 52.9 | 353.1 |

July 20, 1948

49

Rainey
King
West

Cut 3.7 Prop. Line

4.0

3.8

4.1

3.6

4.0

4.5

4.4

4.5

4.0

4.3

3.9

Par

3.5

Par

3.5

357.96

| | | | | |
|------|-----|-------|-------|-----|
| 7+00 | 4.0 | 354.0 | 353.5 | 4.0 |
| +50 | 2.9 | 351 | 354.0 | 4.6 |
| 8+00 | 2.8 | 352 | 354.3 | 4.4 |
| +50 | 2.6 | 354 | 354.6 | 4.3 |
| 9+00 | 2.3 | 355.7 | 354.8 | 4.4 |
| +50 | 2.3 | 355.7 | 354.9 | 4.3 |

T.P. 4.96 360.66 2.26 355.70

| | | | | |
|-------|-----|-------|-------|-----|
| 10+00 | 5.0 | 355.7 | 354.8 | 4.4 |
| +50 | 5.8 | 354.9 | 354.6 | 3.8 |
| 11+00 | 5.5 | 355.2 | 354.5 | 4.2 |
| +50 | 5.6 | 355.1 | 354.4 | 4.2 |
| 12+00 | 5.8 | 354.9 | 354.3 | 4.1 |
| +50 | 6.3 | 354.4 | 353.8 | 4.1 |
| 13+00 | 8.8 | 351.9 | 352.6 | 3.5 |

T.P. 2.00 355.00 7.66 353.00

7.46 347.54 347.53

Lake Hodges
from Well #1 to road
837'

B.M.

319.05

2.14 321.19

102' E Well #1

Tap casing test well #1 2.94 318.25

200' E Well #1

Tap casing test well #2 2.60 318.59

396' E Well #1

Tap casing test well #3 2.56 318.63

Rainy
King
West

7/27

51

Profile E side Road from
Lake Hodges to Well #1

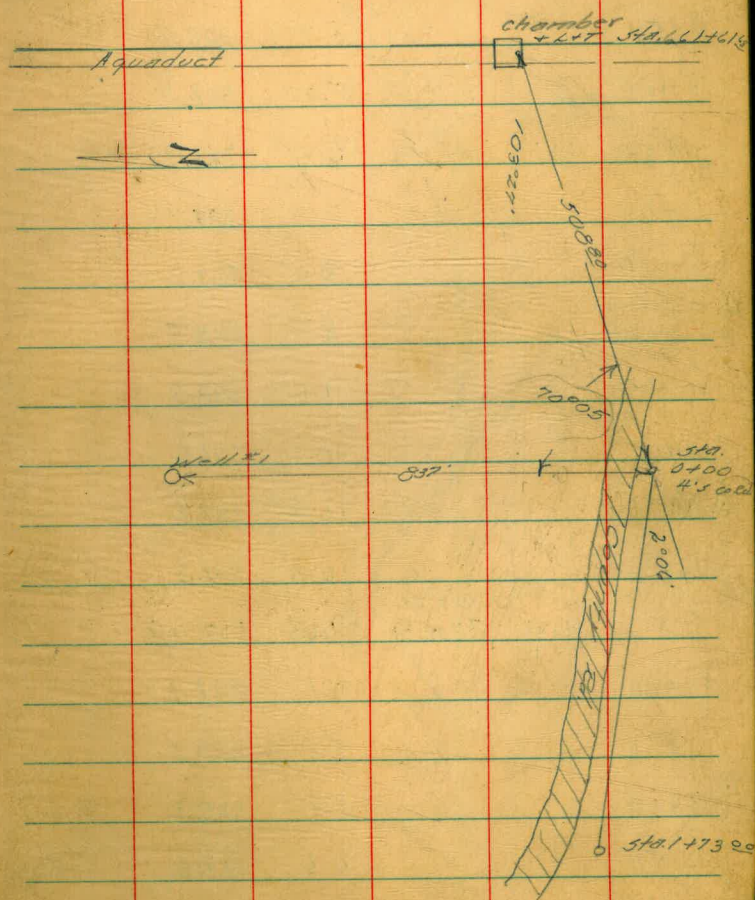
BM plug in top of ^{structure} aqueduct 320.82

12.45 333.27

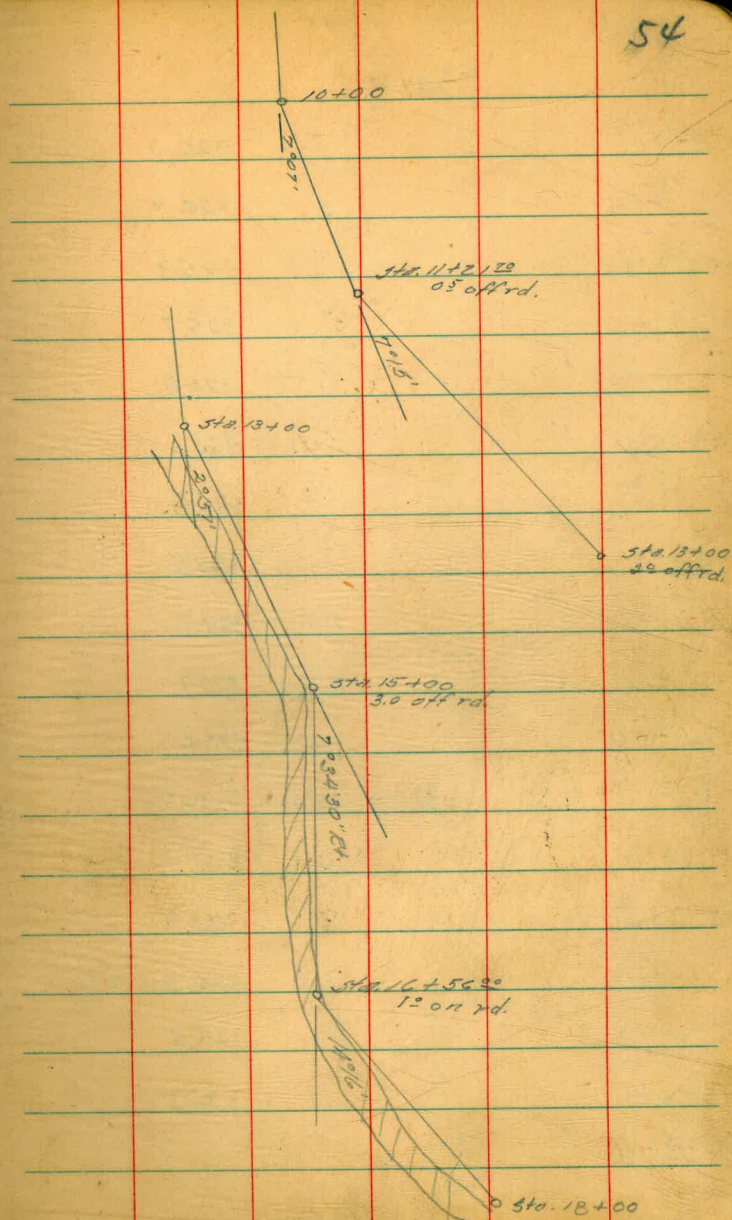
| | | | |
|-------------------------|-----|--------|-------------|
| 0+00 | | 3.1 | 330.2 |
| +50 | | 2.6 | 330.7 |
| 1+00 | | 1.6 | 331.7 |
| +50 | | 0.1 | 333.2 |
| T.P. | 158 | 334.83 | 0.02 333.25 |
| 1+73 | | 1.7 | 333.1 |
| 2+00 | | 1.8 | 333.0 |
| +50 | | 1.6 | 333.2 |
| 3+00 | | 2.2 | 332.6 |
| +50 | | 3.5 | 331.3 |
| 4+00 | | 4.8 | 330.0 |
| +50 | | 4.7 | 330.1 |
| 5+00 | | 4.0 | 330.8 |
| P.I. 6+18 ⁸⁸ | | | |
| +50 | | 2.8 | 332.0 |
| 6+00 | | 2.0 | 332.8 |

52

Intersection Pt. - Well #1

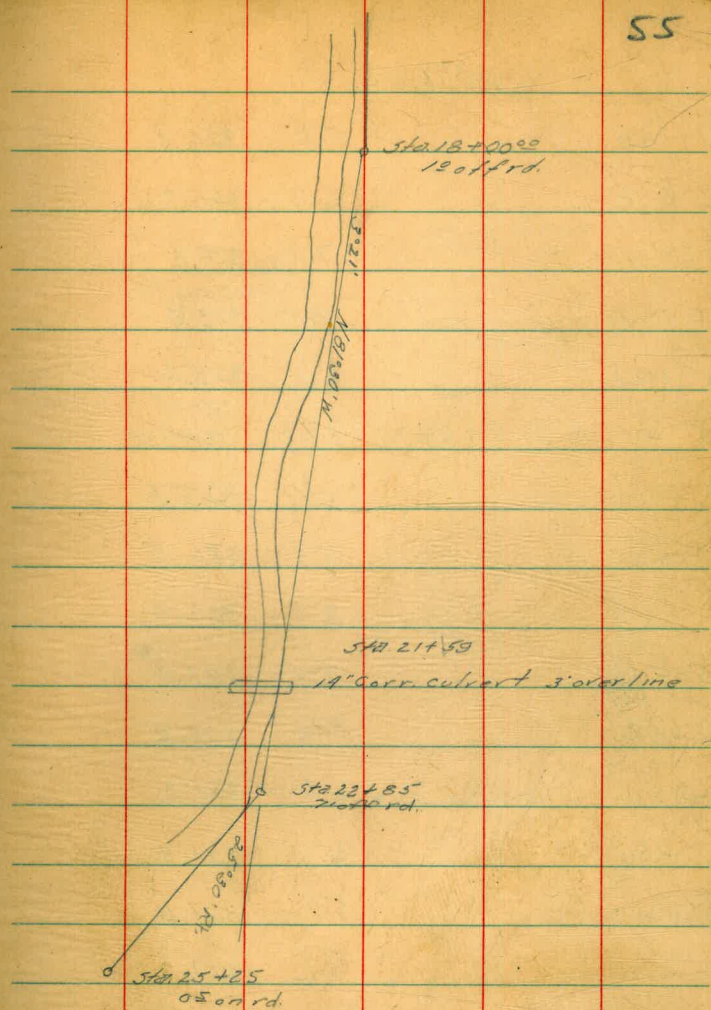


| | 326.21 | | | |
|---------|--------|--------|-------|--------|
| | 320.21 | | | |
| 14+00 | | 5.3 | 320.9 | |
| +50 | | 5.4 | 320.8 | |
| △ 15+00 | | 5.4 | 320.8 | |
| +50 | | 5.5 | 320.7 | |
| 16+00 | | 5.5 | 320.7 | |
| +50 | | 5.4 | 320.8 | |
| △ 16+50 | | 5.4 | 320.8 | |
| 17+00 | | 5.0 | 321.2 | |
| +50 | | 3.9 | 322.3 | |
| △ 18+00 | | 3.4 | 322.8 | |
| +50 | | 2.5 | 323.7 | |
| 19+00 | | 2.2 | 324.0 | |
| +50 | | 2.4 | 323.8 | |
| 20+00 | | 2.5 | 323.7 | |
| T.P. | 6.42 | 331.13 | 1.50 | 324.71 |
| 20+50 | | 7.2 | 323.9 | |
| 21+00 | | 7.1 | 324.0 | |
| +50 | | 7.1 | 324.0 | |



33/13

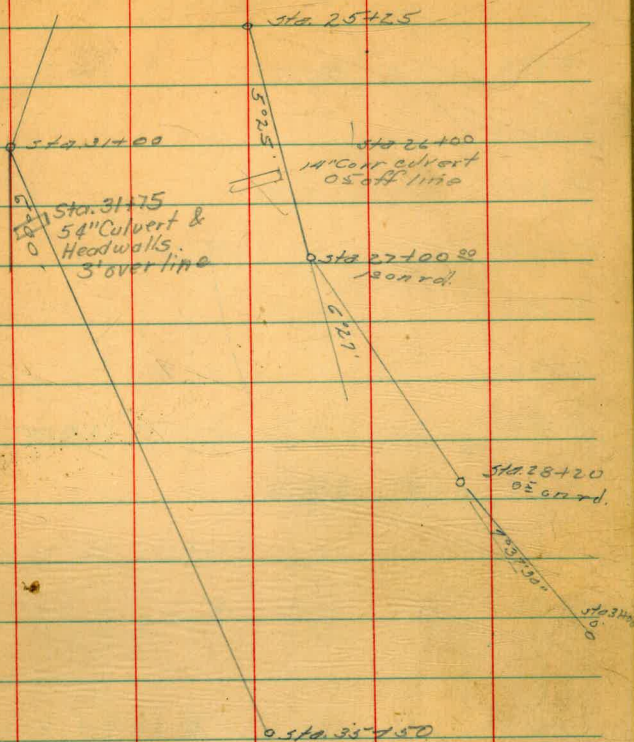
| | | | | |
|---------|------|--------|------|--------|
| 22+00 | | | 7.1 | 324.0 |
| +50 | | | 6.2 | 324.9 |
| Δ 22+85 | | | 5.8 | 325.3 |
| 23+00 | | | 5.4 | 325.7 |
| +50 | | | 4.5 | 326.6 |
| 24+00 | | | 5.0 | 326.1 |
| +50 | | | 5.8 | 325.3 |
| 25+00 | | | 7.3 | 323.8 |
| Δ 25+25 | | | 8.9 | 322.2 |
| +50 | | | 8.9 | 322.2 |
| 26+00 | | | 9.2 | 321.9 |
| T.P. | 9.27 | 332.02 | 8.38 | 322.75 |
| 26+50 | | | 10.1 | 321.9 |
| Δ 27+00 | | | 8.8 | 323.2 |
| +50 | | | 7.8 | 324.2 |
| 28+00 | | | 6.6 | 325.4 |
| 28+50 | | | 5.7 | 326.3 |
| Δ 28+20 | | | | |



332.02

| | | | | |
|---------|------|--------|------|-------------------|
| 29+00 | | | 5.9 | 326.1 |
| +50 | | | 6.3 | 325.7 |
| 30+00 | | | 7.2 | 324.8 |
| 30+50 | | | 8.1 | 323.9 |
| △ 31+00 | | | 8.8 | 323.2 |
| | | | | 329.88 |
| T.P. | 3.50 | 327.38 | 8.14 | 323.29 |
| 31+50 | | | 4.3 | 323.1 |
| 32+00 | | | 4.9 | 322.5 |
| +50 | | | 5.1 | 322.3 |
| 33+00 | | | 5.6 | 321.8 |
| 33+50 | | | 5.9 | 321.5 |
| 34+00 | | | 6.2 | 321.2 |
| +50 | | | 6.8 | 321.4 |
| 35+00 | | | 5.8 | 321.6 |
| △ 35+50 | | | 5.2 | 322.2 |
| | | | 2.7 | 324.68 |

56



Notes Reduced - RAM

Profile to creek
85' west of bridge

| | | | |
|-------|------|--------|--------|
| | 5.69 | 310.29 | 305.00 |
| 0+00 | | 0.7 | 310.0 |
| 0+50 | | 8.6 | 302.1 |
| 0+68 | | 16.7 | 299.0 |
| IP #1 | | 11.54 | 299.15 |
| | 1.12 | 300.27 | |
| 1+00 | | 4.3 | 296.0 |
| 1+50 | | 7.2 | 293.1 |
| 2+00 | | 7.8 | 292.5 |
| 2+50 | | 8.3 | 292.0 |
| 3+00 | | 8.5 | 291.8 |

| | | | |
|-------------------|-------|--------|-------|
| | | 300.27 | |
| 3+50 | | 8.4 | 291.9 |
| 4+00 | | 8.1 | 292.2 |
| 4+50 | | 8.4 | 291.9 |
| 4+65 end | | 8.6 | 291.7 |
| IP | | 7.86 | 297.4 |
| | 12.02 | 309.43 | |
| ck to B.M. | | 4.43 | |
| Reduced 8.5.48 JK | | | |

Profile of existing 16" pipe

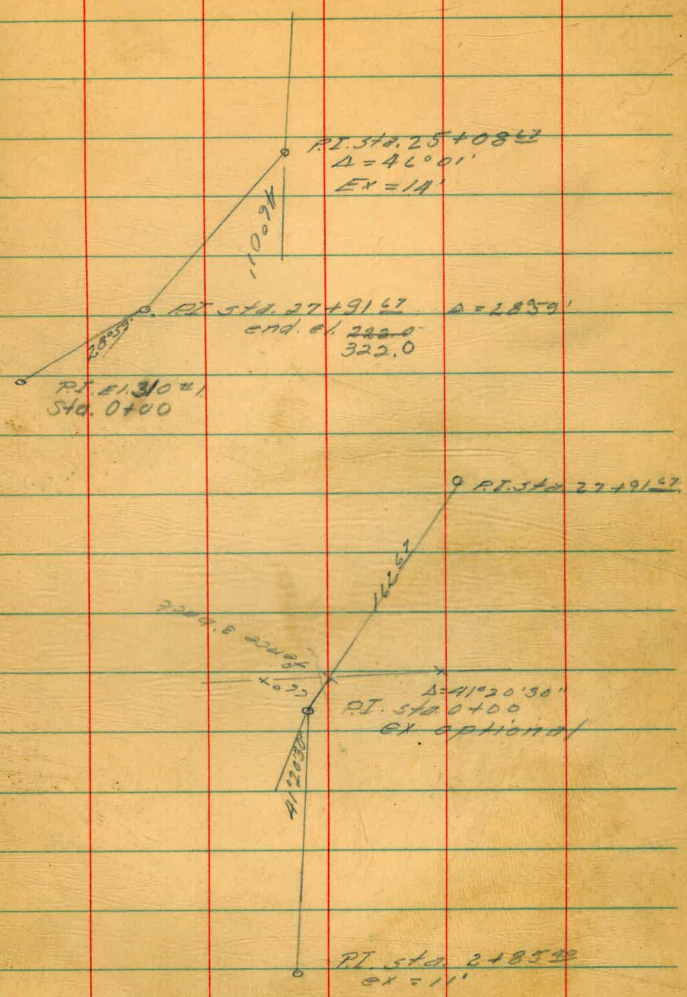
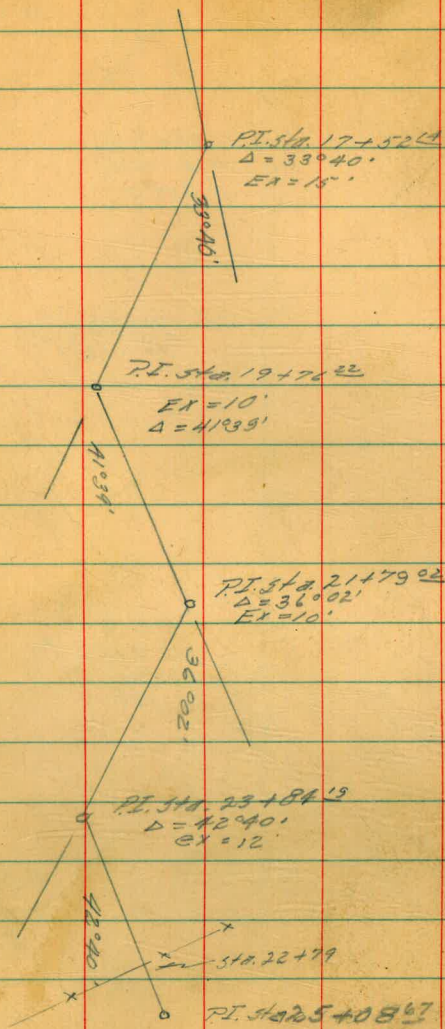
58

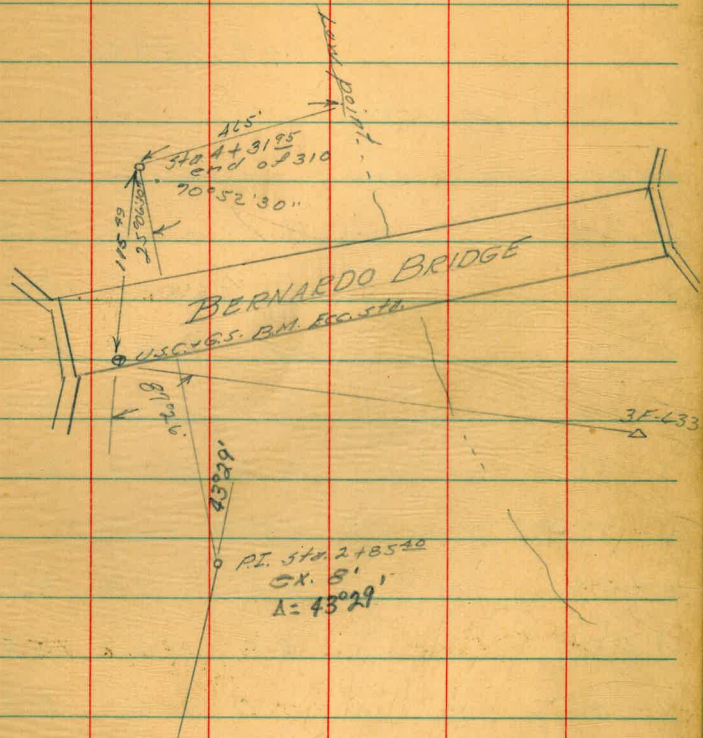
from well #1 to #2

| | | |
|----------------------|--------|--------|
| | | 319.05 |
| | ✓ | |
| 1.88 | 320.93 | |
| Top casing Well #2 | 1.32 | 319.61 |
| 0+00 | 4.0 | 316.9 |
| 1+00 | 4.1 | 316.8 |
| 2+00 | 4.4 | 316.5 |
| 3+00 | 4.6 | 316.3 |
| 4+00 | 4.8 | 316.1 |
| 5+00 | 4.5 | 316.4 |
| 6+00 | 5.5 | 315.4 |
| 7+00 | 5.4 | 315.5 |
| 8+00 | 5.1 | 315.8 |
| 9+00 | 5.0 | 315.9 |
| 9+56 | 4.6 | 316.3 |
| | | 318.55 |
| ck to casing well #1 | 2.38 | 318.65 |

int. w/ pump line well #2

Reduced 8.5.48 JK





Ozark St. for Const.

SE. Cor. 49th

B.M. chiseled X + Imp. 148.51

12.10 140.61

0.64 159.97

3.04 163.01

0100

0250

3.1 159.9 140.3

1400

3.9 159.1 159.4

1750

4.8 158.2 158.5

2400

5.5 157.5 157.6

2450

6.1 156.9 156.7

2473⁵⁰

3400

6.2 156.8 156.0

3450

6.8 156.2 155.6

4400

7.0 156.0 155.2

4450

7.2 155.8 154.9

5400

7.4 155.6 154.6

5450

8.3 154.7 153.8

T.P.

8.19 154.82

1.45 156.27

62

107 W. 5th on S side imp.

3.1

3.2

3.2

3.4

3.7

N line Alley Ozark St.

4.3

4.1

4.3

4.4

4.5

4.4

156.27

| | | | |
|------|-------|--------|-------|
| 6+00 | 3.1 | 153.2 | 152.4 |
| 6+50 | 5.8 | 150.5 | 150.0 |
| 7+00 | 9.2 | 147.1 | 146.7 |
| T.P. | 12.84 | 143.43 | |

3.82 147.25

| | | | |
|-------------------------|-----|-------|-------|
| 7+50 | 4.6 | 142.7 | 143.0 |
| 8+00 | 6.1 | 141.2 | 141.4 |
| 8+50 | 6.1 | 141.2 | 140.1 |
| 9+00 | 6.5 | 140.8 | 139.9 |
| 9+50 | 6.0 | 141.3 | 138.6 |
| 10+00 | 5.3 | 142.0 | 137.8 |
| 10+50 | 5.3 | 142.0 | 137.2 |
| 10+85 ⁶⁵ End | 6.8 | 140.2 | 136.8 |

Cuts

8/4

Rainey
King
West

63

4.3

4.0

3.9

2.6

3.3

4.4

4.9

6.2

6.7

7.3

6.9

Alley Diamond
between Mission Blvd.
& Cass
Cor 6 Mission
E. O. S. Blvd.

10805

| | | | |
|----------------------|-----|-------|-------|
| 0450 | 6.5 | 101.5 | 100.5 |
| 1400 | 6.1 | 101.9 | 100.9 |
| 1750 | 5.6 | 102.5 | 101.3 |
| 2700 | 5.5 | 102.6 | 101.7 |
| 2750 | 5.4 | 102.7 | 102.1 |
| 3400 | 5.1 | 103.0 | 102.5 |
| 3450 | 4.8 | 103.3 | 102.9 |
| 4700 | 3.9 | 104.2 | 103.3 |
| 4750 | 3.8 | 104.3 | 103.7 |
| 5400 | 3.6 | 104.5 | 104.1 |
| at corner St. Bayard | 3.9 | 104.2 | |

4 MISSOURI

8/6/48

Rainey
King
West

64

4.5

4.5

4.7

4.4

4.1

4.0

3.9

4.4

4.1

3.6

5 19

Lake Hodges Wells
Profile Well # 2 to Well # 3

| | | | | | |
|-------|------|--------|------|--------|--------|
| BM | 3.45 | 323.06 | | 319.61 | 319.61 |
| 0+00 | | | 6.8 | | 316.3 |
| 0+50 | | | 6.4 | | 316.7 |
| 1+00 | | | 5.5 | | 317.6 |
| 1+50 | | | 5.5 | | 317.6 |
| 2+00 | | | 5.1 | | 318.0 |
| 2+50 | | | 4.4 | | 318.7 |
| 3+00 | | | 4.5 | | 318.6 |
| 3+50 | | | 4.2 | | 318.9 |
| 4+00 | | | 4.3 | | 318.8 |
| 4+50 | | | 4.0 | | 319.1 |
| 5+00 | | | 4.2 | | 318.9 |
| 5+50 | | | 4.1 | | 319.0 |
| 6+00 | | | 5.0 | | 318.1 |
| TP #1 | 4.57 | 322.66 | 4.97 | 318.09 | |
| 6+50 | | | 6.3 | | 316.4 |
| 7+00 | | | 5.2 | | 317.5 |

8-13-48 65
Entered by Meredith

Top of casing Well #2

End outlet

| | | | | |
|--------|------|--------|------|--------|
| 7+50 | | | 3.9 | 318.8 |
| 8+00 | | | 3.5 | 319.2 |
| 8+50 | | | 2.8 | 319.9 |
| 9+00 | | | 2.0 | 320.7 |
| 9+50 | | | 1.3 | 321.4 |
| 10+00 | | | 1.4 | 321.3 |
| 10+50 | | | 1.4 | 321.3 |
| 11+00 | | | 1.5 | 321.2 |
| 11+50 | | | 1.9 | 320.8 |
| 12+00 | | | 2.3 | 320.4 |
| T.P.#2 | 4.64 | 325.00 | 2.30 | 320.36 |
| 12+50 | | | 4.2 | 320.8 |
| 13+00 | | | 3.7 | 321.3 |
| 13+50 | | | 3.8 | 321.2 |
| 14+00 | | | 3.7 | 321.3 |
| 14+50 | | | 3.3 | 321.7 |
| 15+00 | | | 3.0 | 322.0 |
| 15+50 | | | 1.6 | 323.4 |

| | | | | |
|----------|------|--------|------|--------|
| 16+00 | | | 1.6 | 323.4 |
| 16+50 | | | 2.2 | 322.8 |
| 17+00 | | | 2.3 | 322.7 |
| 17+50 | | | 1.9 | 323.1 |
| 18+00 | | | 2.1 | 322.9 |
| 18+50 | | | 2.4 | 322.6 |
| 18+86.30 | | | 2.3 | 322.7 |
| T.B.M. | | | 1.84 | 323.16 |
| T.P.#3 | 2.48 | 323.62 | 3.86 | 321.14 |
| T.P.#4 | 5.68 | 323.75 | 5.55 | 318.07 |
| B.M. | | | 4.10 | 319.65 |

67

Spike in 26" Cottonwood tree near —
Well No. 3

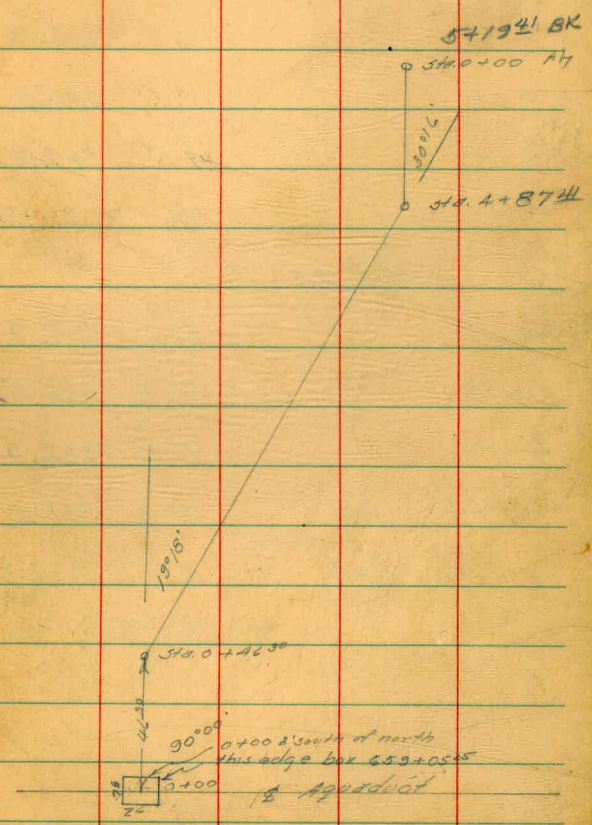
Top casing Well No. 2

Reduced 8-20-48 R.M.

Sept. 2, 1948
 Rainey
 King
 West

68

| | | |
|--------------------------|--------|--------|
| BM structure sta. 695405 | | 398.34 |
| 1.60 | 399.94 | |
| 0+04 | 4.1 | 395.8 |
| 0+39 | 4.6 | 395.3 |
| 0+46.3 | 5.9 | 394.0 |
| 0+60 | 8.0 | 391.9 |
| T.P. | 12.68 | 387.26 |
| 0.42 | 387.68 | |
| 1+00 | 2.4 | 385.3 |
| 1+50 | 9.2 | 378.1 |
| T.P. | 12.00 | 375.68 |
| 0.76 | 376.44 | |
| 2+00 | 4.6 | 371.8 |
| 2+50 | 11.4 | 365.0 |
| T.P. | 12.51 | 363.93 |
| 0.50 | 364.43 | |
| 3+00 | 5.9 | 358.5 |
| 3+50 | 12.3 | 352.1 |



364.43

| | | | |
|---------------------------|--------|--------|-------|
| T.P. | 12.77 | 351.66 | |
| 0.86 | 352.52 | | |
| 3+25 | 2.8 | 349.7 | 349.7 |
| 4+00 | 6.5 | 346.0 | 346.0 |
| 4+08 | 7.1 | 345.4 | 345.4 |
| 4+15 | 8.5 | 344.0 | 344.0 |
| T.P. | 12.57 | 339.95 | |
| 1.61 | 341.56 | | |
| 4+45 | 3.7 | 337.9 | 337.9 |
| 4+50 | 5.1 | 336.5 | 336.5 |
| 4+72 | 9.6 | 332.0 | 332.0 |
| 4+87 ^{ft} A.P.H. | 10.6 | 331.0 | 331.0 |
| on rock C.K. to T.B.M. | 8.67 | 332.89 | |

Reduced 9-3-48 RM

Lake Hodges
for Construction
by City

14"
low

Rainey
King
Plans
Papers

70

3.34 401.68

Top existing structure 398.34

Proposed structure

| | | | | |
|-------------|------|-------------------------------------|--------|------|
| E.N.E. Cor. | 5.87 | 395.81 | 393.23 | 2.58 |
| E.S.E. Cor. | 4.0 | 397.68 | 393.23 | 4.45 |
| S.S.E. Cor. | 2.22 | ³⁹⁹ 400.46 | 393.23 | 6.23 |
| N.N.E. Cor. | 6.81 | ⁴ 395.87 | 393.23 | 1.64 |
| N.N.W. Cor. | 7.87 | ³ 394.81 | 393.23 | 0.58 |
| S.W. Cor. | 2.92 | 398.76 | 393.23 | 5.43 |
| W.S.W. Cor. | 4.19 | 397.49 | 393.23 | 4.26 |
| N.N.W. Cor. | 6.57 | ⁵ 396.11 | 393.23 | 1.88 |
| 0+47.82 | 8.0 | ^{3.6"} 394.74 | 395.82 | 1.6 |
| T.P. | 4.21 | 397.47 | | 1.6 |

4.24 401.71 0.

| | | | | |
|-------|------|-------------------------|-------------------------|------|
| 0+002 | 0.5 | ¹ 401.2 | 395.3 | 5.9 |
| 0+30 | 3.2 | 398.5 | 388.6 | 19.9 |
| 0+50 | 9.1 | ^{0.5} 398.6 | ^{0.6} 383.9 | 8.7 |
| T.P. | 9.06 | 398.65 | | |

1.14 393.74

| | | | | | |
|--------------|------|--------|-------------------------------|-------|-----|
| 1+00 T.P. | 0.68 | 383.37 | ³ 9.9 382.69 | 376.1 | 7.8 |
| | | | 11.10 | | |

| | | | | |
|----------|------|--------|--------|--------|
| | | 383.37 | | |
| 1+50 | | 7.6 | 378.8 | 369.6 |
| T.P. | | 12.78 | 370.59 | |
| | 0.43 | 377.02 | | |
| 2+00 | | 1.4 | 369.6 | 363.1 |
| 2+55 | | 9.3 | 361.7 | 356.0 |
| T.P. | 2.65 | 361.21 | 12.46 | 358.56 |
| 3+00 | | 5.5 | 355.7 | 350.2 |
| T.P. | | 12.05 | 349.16 | |
| | 1.09 | 350.25 | | |
| 3+54 | | 2.9 | 347.4 | 343.5 |
| 4+00 | | 11.3 | 339.0 | 334.9 |
| T.P. | | 11.75 | 338.50 | |
| | 1.60 | 340.10 | | |
| A 1+43.7 | | 9.4 | 330.7 | 326.7 |
| 1+71.25 | | 9.7 | 330.3 | 326.7 |

cuts

| | |
|-----|-------|
| 6.2 | 375.8 |
| | 8.4 |
| | 384.2 |

6.5

5.7

5.5

3.9

4.1

4.0

3.6

71

Profile & Cuts over
Hodges-30' P.L.

| | | | T.B.M. Rock |
|------------------------|------|--------|----------------|
| | 4.36 | 337.25 | 332.89 |
| 0+00 | | 6.7 | 330.6 |
| +50 | | 5.9 | 331.4 |
| 1+00 | | 4.8 | 332.5 |
| +50 | | 3.8 | 333.5 |
| 1+75 | | 3.7 | 333.6 |
| 2+00 | | 3.7 | 333.6 |
| +50 | | 3.7 | 333.6 |
| 3+00 | | 4.1 | 333.2 |
| +50 | | 5.4 | 331.7 |
| 4+00 | | 6.7 | 330.6 |
| +50 | | 6.5 | 330.8 |
| 5+00 | | 5.8 | 331.5 |
| B.C. 5+M ⁹² | | 5.6 | 331.7 |
| +25 | | 5.4 | 331.9 |
| +50 | | 4.9 | 332.4 |
| +75 | | | 333.0 |
| 6+00 | | 3.8 | 333.5 |
| +25 | | 3.8 | |
| +50 | | 4.2 | 333.1 |
| +75 | | | 332.1 |
| 7+00 | | 6.5 | 330.8 |

King
Adams 10-5-48

333.1

72

| Cuts |
|------|
| 4.9 |
| 5.7 |
| 6.8 |
| 7.8 |
| 7.4 |
| 7.9 |
| 7.9 |
| 7.6 |
| 6.1 |
| 5.0 |
| 5.2 |
| 5.9 |
| 6.2 |
| 6.4 |
| 6.9 |
| 7.5 |
| 8.0 |
| 8.0 |
| 7.6 |
| 6.6 |
| 6.4 |

337.25

EC
 7+175 BX = 7.2
 7+225 4h. 7.2 330.1 323.9
 7+50 8.4 328.9 323.2

6.2
5.7

T.P. 0.20 329.07 8.38 328.87

8+00 1.9 327.2 322.1
 +50 3.1 326.0 321.0
 9+00 4.1 325.0 319.8
 9+50 5.4 323.7 318.7
 10+00 5.8 323.3 318.1
 +50 6.2 322.9 317.6
 11+00 6.7 322.4 317.0
 11+25 6.9 322.2 316.8
 11+50 7.2 321.9 316.6
 12+00 7.6 321.5 316.3
 12+50 7.7 321.4 316.1

5.1
5.0
5.2
5.0
5.2
5.3
5.4
5.4
5.5
5.3
5.2
5.3

329.07

| | | | | |
|-------|-----|-------|-------|-----|
| 13+00 | 8.0 | 321.1 | 315.8 | 5.3 |
|-------|-----|-------|-------|-----|

| | | | | |
|-------|-----|-------|-------|-----|
| 13+50 | 8.0 | 321.1 | 315.6 | 5.5 |
|-------|-----|-------|-------|-----|

| | | | | |
|-------|-----|-------|-------|-----|
| 14+00 | 7.7 | 321.4 | 316.2 | 5.2 |
|-------|-----|-------|-------|-----|

| | | | | |
|------|------|--------|------|--------|
| T.P. | 4.47 | 325.81 | 7.73 | 321.34 |
|------|------|--------|------|--------|

| | | | | |
|-------|-----|-------|-------|-----|
| 14+50 | 4.5 | 321.3 | 316.2 | 5.7 |
|-------|-----|-------|-------|-----|

| | | | | |
|-------|-----|-------|-------|-----|
| 15+00 | 4.7 | 321.1 | 316.2 | 4.9 |
|-------|-----|-------|-------|-----|

| | | | | |
|-----|-----|-------|-------|-----|
| +50 | 4.7 | 321.6 | 316.2 | 4.9 |
|-----|-----|-------|-------|-----|

| | | | | |
|-------|-----|-------|-------|-----|
| 16+00 | 4.5 | 321.3 | 316.2 | 5.1 |
|-------|-----|-------|-------|-----|

| | | | | |
|-------|-----|-------|-------|-----|
| 16+50 | 4.4 | 321.4 | 316.4 | 5.0 |
|-------|-----|-------|-------|-----|

| | | | | |
|-------|-----|-------|-------|-----|
| 16+56 | 4.3 | 321.5 | 316.5 | 5.0 |
|-------|-----|-------|-------|-----|

| | | | | |
|------|------|--------|-------|------------|
| T.P. | 4.88 | 420.93 | Spike | on @ 16+56 |
|------|------|--------|-------|------------|

Profile - 12' offsets for P. pe
Near Bernardo Bridge

King
480ms 10-5-48

55

B.M. 8.91 336.45 327.54

T.P. 0.44 324.40 12.49 323.96

27+00 0.6 323.8 318.0

27+50 0.8 323.6 318.0

28+00 1.6 322.8 306.0

28+50 5.6 318.8 306.0

29+00 9.7 314.7 306.0

T.P. 4.76 317.35 11.81 312.59

29+50 6.5 310.9 306.0
+00 ahead

+50 5.8 311.6 306.0

+00 4.6 312.8 306.0

+50 3.5 313.9 306.0

2+00 3.0 314.4 305.9

+50 5.7 311.7 305.9

2+85 8.3 309.1 305.9

3+00 7.6 309.9 305.9

5.8

5.6

16.8

12.8

8.7

4.9

5.6

6.8

7.9

8.5

3.2

4.0

317.35

| | | | | |
|--------|-----|-----|-------|------------------|
| 3150 | 1.0 | 5.4 | 312.0 | 305.9 |
| 4400 | 1.0 | 3.8 | 313.0 | 305.9 |
| 443195 | 1.0 | 4.7 | 312.7 | 305.9 |

6.1
7.6
6.8

T.P. 0.10 324.06 323.96

| | | | | |
|---------------------------|--|------|------|-------|
| BK 68440 ⁹⁷ | | 2.1 | 22.0 | 318.0 |
| 68442 ⁹⁷ | | 2.5 | 21.6 | 318.0 |
| 68452 ⁹⁷ | | 3.7 | 20.4 | 306.0 |
| 69400 | | 8.4 | 15.7 | 306.0 |
| 69452 ⁹⁵ | | 13.2 | 10.9 | 306.0 |
| 70400 | | 12.5 | 11.6 | 306.0 |
| 70450 | | 11.6 | 12.5 | 306.0 |
| 71400 | | 10.3 | 13.8 | 306.0 |

4.0
3.6
14.4
9.7
4.9
5.6
6.5
7.8

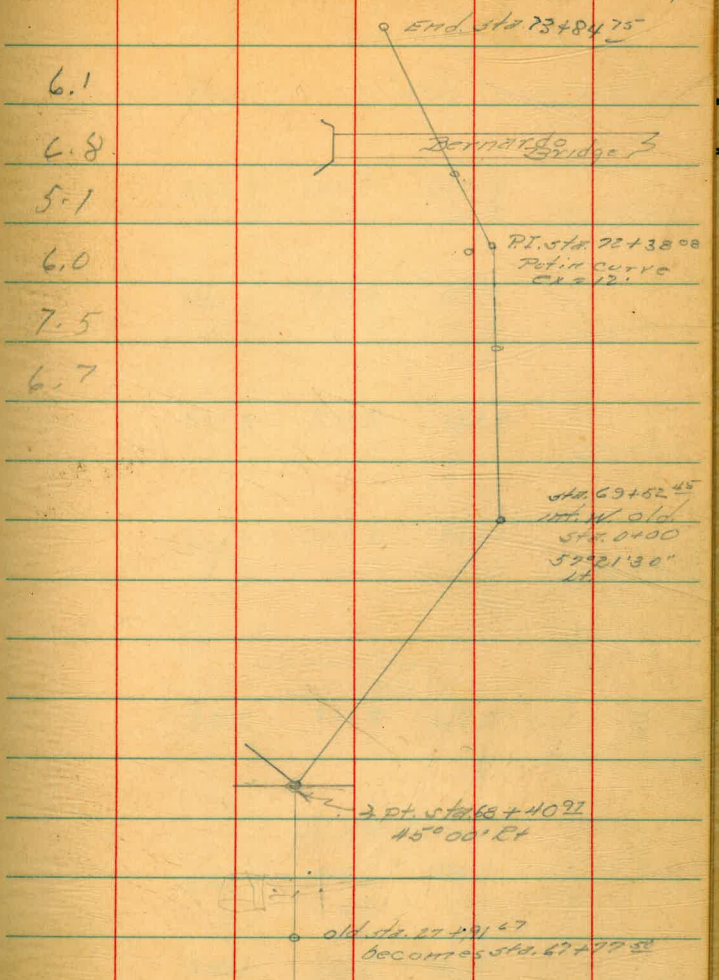
T.P. 2.14 316.53 9.67 314.39

71450 2.1 14.4 306.0

8.4

| | | | | |
|---------|--------|--------|--------|--|
| BC. | 316.53 | | | |
| 72400 | 4.5 | 12.0 | 305.9 | |
| 7243000 | 3.8 | 12.7 | 305.9 | |
| EC | | | | |
| 724775 | 5.5 | 11.0 | 305.9 | |
| 73400 | 4.6 | 11.9 | 305.9 | |
| 73450 | 3.1 | 13.4 | 305.9 | |
| 7348475 | 3.9 | 12.6 | 305.9 | |
| | 11.51 | 305.02 | 305.02 | |

Headwall



Sections
 & Ditch at
 Sta. 68+04

TP 118 325.14

38996

68+00

68+04

68+06

68+10

68+40.92

68+57.92

66+62

66+60

7.8

Lts @ Sta.

^{Bridge}
 322.7 321.9 320.2

2.4 3.2 4.9
 5' 12

320.8 320.2 319.3

4.3 4.9 5.8
 5' 12

321.8 320.8 320.0

3.8 4.3 5.1
 5' 12

321.9 321.0 320.1

3.2 4.1 5.0
 5' 12

Headwall
 68+40.92

321.8 320.5 319.0

3.3 4.6 6.1
 12

Headwall

320.0 318.6 318.0

5.1 6.5 7.1
 12

325.1 323.4 321.9

0.8 1.7 3.3
 10 10

321.6 320.6 320.0

3.5 4.5 5.1
 10 10

Reduced 10-7-48 R.M.

32514

66458

1.3

0.3

1.3

2.8

10

398.34

6.53
3.28
3.27

18 6.57

70
1260
1760

36

45/163

135

280

276

113.93
7.69

121.62

-7.30

114.32

98.35 13.07

89.58

78680

43175

88515

78680

88101930

27.39

115.49

13.07

9787
71

1200000

91787

282130

275361

676900
09

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1 1/2
For Single Track Embankment.

| H | 0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | H |
|----|------|------|------|------|------|------|------|------|------|------|----|
| 0 | 8.0 | 8.2 | 8.3 | 8.5 | 8.6 | 8.8 | 8.9 | 9.1 | 9.2 | 9.4 | 0 |
| 1 | 9.5 | 9.7 | 9.8 | 10.0 | 10.1 | 10.3 | 10.4 | 10.6 | 10.7 | 10.9 | 1 |
| 2 | 11.0 | 11.2 | 11.3 | 11.5 | 11.6 | 11.8 | 11.9 | 12.1 | 12.2 | 12.4 | 2 |
| 3 | 12.5 | 12.7 | 12.8 | 13.0 | 13.1 | 13.3 | 13.4 | 13.6 | 13.7 | 13.9 | 3 |
| 4 | 14.0 | 14.2 | 14.3 | 14.5 | 14.6 | 14.8 | 14.9 | 15.1 | 15.2 | 15.4 | 4 |
| 5 | 15.5 | 15.7 | 15.8 | 16.0 | 16.1 | 16.3 | 16.4 | 16.6 | 16.7 | 16.9 | 5 |
| 6 | 17.0 | 17.2 | 17.3 | 17.5 | 17.6 | 17.8 | 17.9 | 18.1 | 18.2 | 18.4 | 6 |
| 7 | 18.5 | 18.7 | 18.8 | 19.0 | 19.1 | 19.3 | 19.4 | 19.6 | 19.7 | 19.9 | 7 |
| 8 | 20.0 | 20.2 | 20.3 | 20.5 | 20.6 | 20.8 | 20.9 | 21.1 | 21.2 | 21.4 | 8 |
| 9 | 21.5 | 21.7 | 21.8 | 22.0 | 22.1 | 22.3 | 22.4 | 22.6 | 22.7 | 22.9 | 9 |
| 10 | 23.0 | 23.2 | 23.3 | 23.5 | 23.6 | 23.8 | 23.9 | 24.1 | 24.2 | 24.4 | 10 |
| 11 | 24.5 | 24.7 | 24.8 | 25.0 | 25.1 | 25.3 | 25.4 | 25.6 | 25.7 | 25.9 | 11 |
| 12 | 26.0 | 26.2 | 26.3 | 26.5 | 26.6 | 26.8 | 26.9 | 27.1 | 27.2 | 27.4 | 12 |
| 13 | 27.5 | 27.7 | 27.8 | 28.0 | 28.1 | 28.3 | 28.4 | 28.6 | 28.7 | 28.9 | 13 |
| 14 | 29.0 | 29.2 | 29.3 | 29.5 | 29.6 | 29.8 | 29.9 | 30.1 | 30.2 | 30.4 | 14 |
| 15 | 30.5 | 30.7 | 30.8 | 31.0 | 31.1 | 31.3 | 31.4 | 31.6 | 31.7 | 31.9 | 15 |
| 16 | 32.0 | 32.2 | 32.3 | 32.5 | 32.6 | 32.8 | 32.9 | 33.1 | 33.2 | 33.4 | 16 |
| 17 | 33.5 | 33.7 | 33.8 | 34.0 | 34.1 | 34.3 | 34.4 | 34.6 | 34.7 | 34.9 | 17 |
| 18 | 35.0 | 35.2 | 35.3 | 35.5 | 35.6 | 35.8 | 35.9 | 36.1 | 36.2 | 36.4 | 18 |
| 19 | 36.5 | 36.7 | 36.8 | 37.0 | 37.1 | 37.3 | 37.4 | 37.6 | 37.7 | 37.9 | 19 |
| 20 | 38.0 | 38.2 | 38.3 | 38.5 | 38.6 | 38.8 | 38.9 | 39.1 | 39.2 | 39.4 | 20 |
| 21 | 39.5 | 39.7 | 39.8 | 40.0 | 40.1 | 40.3 | 40.4 | 40.6 | 40.7 | 40.9 | 21 |
| 22 | 41.0 | 41.2 | 41.3 | 41.5 | 41.6 | 41.8 | 41.9 | 42.1 | 42.2 | 42.4 | 22 |
| 23 | 42.5 | 42.7 | 42.8 | 43.0 | 43.1 | 43.3 | 43.4 | 43.6 | 43.7 | 43.9 | 23 |
| 24 | 44.0 | 44.2 | 44.3 | 44.5 | 44.6 | 44.8 | 44.9 | 45.1 | 45.2 | 45.4 | 24 |
| 25 | 45.5 | 45.7 | 45.8 | 46.0 | 46.1 | 46.3 | 46.4 | 46.6 | 46.7 | 46.9 | 25 |
| 26 | 47.0 | 47.2 | 47.3 | 47.5 | 47.6 | 47.8 | 47.9 | 48.1 | 48.2 | 48.4 | 26 |
| 27 | 48.5 | 48.7 | 48.8 | 49.0 | 49.1 | 49.3 | 49.4 | 49.6 | 49.7 | 49.9 | 27 |
| 28 | 50.0 | 50.2 | 50.3 | 50.5 | 50.6 | 50.8 | 50.9 | 51.1 | 51.2 | 51.4 | 28 |
| 29 | 51.5 | 51.7 | 51.8 | 52.0 | 52.1 | 52.3 | 52.4 | 52.6 | 52.7 | 52.9 | 29 |
| 30 | 53.0 | 53.2 | 53.3 | 53.5 | 53.6 | 53.8 | 53.9 | 54.1 | 54.2 | 54.4 | 30 |
| 31 | 54.5 | 54.7 | 54.8 | 55.0 | 55.1 | 55.3 | 55.4 | 55.6 | 55.7 | 55.9 | 31 |
| 32 | 56.0 | 56.2 | 56.3 | 56.5 | 56.6 | 56.8 | 56.9 | 57.1 | 57.2 | 57.4 | 32 |
| 33 | 57.5 | 57.7 | 57.8 | 58.0 | 58.1 | 58.3 | 58.4 | 58.6 | 58.7 | 58.9 | 33 |
| 34 | 59.0 | 59.2 | 59.3 | 59.5 | 59.6 | 59.8 | 59.9 | 60.1 | 60.2 | 60.4 | 34 |
| 35 | 60.5 | 60.7 | 60.8 | 61.0 | 61.1 | 61.3 | 61.4 | 61.6 | 61.7 | 61.9 | 35 |
| 36 | 62.0 | 62.2 | 62.3 | 62.5 | 62.6 | 62.8 | 62.9 | 63.1 | 63.2 | 63.4 | 36 |
| 37 | 63.5 | 63.7 | 63.8 | 64.0 | 64.1 | 64.3 | 64.4 | 64.6 | 64.7 | 64.9 | 37 |
| 38 | 65.0 | 65.2 | 65.3 | 65.5 | 65.6 | 65.8 | 65.9 | 66.1 | 66.2 | 66.4 | 38 |
| 39 | 66.5 | 66.7 | 66.8 | 67.0 | 67.1 | 67.3 | 67.4 | 67.6 | 67.7 | 67.9 | 39 |
| 40 | 68.0 | 68.2 | 68.3 | 68.5 | 68.6 | 68.8 | 68.9 | 69.1 | 69.2 | 69.4 | 40 |

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 41.9. For same slopes but other widths of roadbed correct above figures by one-half difference in width of roadbed; thus in example above for 20 ft. roadbed distance will be 41.9 + (20-16) ÷ 2 or 2 ft. added to 41.9 = 43.9. For slopes of 1 on 1 see inside of front cover.