

Thompson-Shultz
DRAINAGE

K&S
MINING TRANSIT BOOK

1900

LEVEL BOOK
THOMPSON-SHULTZ #3

Book I

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Bench Circles	1 - 11
Cross Sections	13 - 22 ²⁸
Transit Line	121 - 156

Sta	+	π	-	Elev
BM#1	3.72	103.72		100.00
①			3.04 30.504	100.68
	11.68	112.36		
BM#2			3.90	108.46
	3.90	112.36		
①			12.06	100.30
	3.20	103.50		
BM#1			3.47	100.03
BM#2				108.46
	3.27	111.73		
①			4.90	106.83
	6.36	113.19		
①			0.21	112.98
	6.03	119.01		
①			3.64	113.7
	6.33	121.70		
①			4.96	116.74
	5.86	122.60		
①			5.91	117.19
	4.04	121.23		
①			5.89	115.39
	6.23	121.62		

BM#1 R.R. spike in 12" 93A tree
on N side of ditch, W side
of tree 1' from bottom.

NE corner of bridge on Rd. 901 E
yellow paint marks for spot.

3	Sta	+ X	12.82	Elev
	①		7.26	114.36
		4.54	118.90	
	BM #3		3.64	115.26
		3.64	118.90	
	①		3.21	115.69
		5.35	121.04	
	①		5.32	115.72
		6.73	122.45	121.77
	①		4.88	117.57
		5.42	122.99	
	①		6.16	116.83
		4.10	120.93	
	①		6.10	114.83
		3.59	118.42	
	①		8.55	109.87
		2.90	112.77	
	①		5.90	106.87
		4.83	111.70	
	BM #2		3.22 5.31	108.48 106.39
	BM #3	3.35		115.26
			118.61	
	①		5.62	112.99
		7.96	120.95	

4

BM #3 NE corner of bridge on west st.
Marked with yellow paint

5
Sta + π - Elev

① 7.75 113.20

5.15 112.35

② 3.90 114.45

2.39 122.84

③ 2.93 119.91

4.62 124.53

④ 3.60 120.93

10.24 131.17

BMA 10.59 120.58

10.59 131.17

⑤ 10.38 120.79

3.65 124.44

⑥ 4.44 120.00

3.94 123.94

⑦ 9.50 114.84

3.84 118.28

⑧ 6.09 112.19

7.80 119.99

⑨ 6.89 113.10

5.88 118.98

⑩ 5.25 113.73

3.99 117.72

⑪ 2.49 115.23

6

117.72
115.26
2.46

BM^{#4} NE corner of bridge Rd 225E
yellow paint marks the spot,

Sta.	+	-	Elev
BM 9	3.61	129.19	120.58
①		5.64	118.55
	3.85	122.40	
①		3.37	119.03
	5.24	124.27	
①		0.96	123.31
	7.60	130.91	
①		3.75	127.16
	5.48	132.64	
①		5.30	127.34
	4.95	132.29	
①		5.69	126.60
	4.40	131.00	
①		4.43	126.57
	5.76	132.33	
①		3.58	128.75
	6.63	135.38	
①		2.95	132.43
	2.32	134.75	
BM 5		7.58	127.17
	7.58	134.75	
①		2.54	132.21
	3.12	135.33	
①		6.94	128.39

BM 5 NE corner of bridge Rd. 51E
yellow paint

Sta	+	+	-	ELEV
	3.82	132.21		
○			5.67	126.54
	4.82	131.36		
○			4.65	126.71
	5.79	132.50		
○			4.99	127.51
	5.22	132.73		
○			5.78	126.95
	2.52	129.47		
○			8.48	120.99
	3.04	124.03		
○			5.03	119.00
	3.62	122.62		
○			3.93	118.69
	5.28	123.97		
B.M. 1			3.40	120.57
B.M. 5				127.17
	4.25	131.42		
○			7.14	124.28
	6.86	131.14		
○			4.06	127.08
	4.85	¹³¹ 132 93		
B.M. 6			¹²⁶ 5.92 129 .01	
	4.21	¹³⁰ 131 .22		

B.M. 6 HEADWALL AT
START OF DITCH NE. WING

11

Sta.	+	π	-	ELEV.
⊙			4.65	¹²⁵ 125 126.57
BM 5	6.08	¹³¹ 131 130.65	4.57	¹³⁷ 137 137.08

2.11

100.25

B.M	B+	π	F-	Elev.
				115.26

12

130.12
130.5
130.57

115.26
2.11
117.37
6.82
110.55
100.25
10.30

6.82

13

SEA + π - $\pi/124$

BM 3.19 103.19 100.00

0+00

0 0.79 102.90

2.17 109.57

2+00

0 2.26 102.31

2.68 109.99

4+00

0 2.41 102.58

13.69 116.27

6+00

0 4.06 112.21

3.49 115.70

0 5.57 110.13

3.82 113.95

8+00

0 9.94 109.01

3.52 107.53

10+00

0 9.27 109.26

1" 5.96 110.22

12+00

Bm #2 1.72 108.50

X SECTION

14

60'	55'	39'	31'	35'	25'	End STR.	Top STR.
9.19	9.50	11.96	11.58	11.06	9.76	9.65	3.57
99.05	98.59	91.93	91.61	92.13	98.93	98.59	99.62

38'	30'	19'	17'	5'	5'		
9.89	9.93	12.24	12.05	12.02	3.09	2.92	2.17
97.68	99.64	92.33	92.22	92.45	101.98	101.5	102.40

45'	34'	20'	17'	11'	3'		
9.27	9.82	11.10	11.29	11.33	3.98	3.62	2.68
100.92	100.17	93.89	93.70	93.66	101.51	101.32	102.31

46'	40'	18'	15'	12'	5'		
5.09	4.82	22.10	22.30	22.00	14.59	14.50	13.59
111.18	111.45	99.17	93.97	94.27	101.68	101.77	102.58

Cross-section of 8+00
was checked and revised as shown
on August 9, 1965 by A.C.K. & J.N.D.

47'	39'	17'	15'	13'	3'		
3.82	4.36	15.36	15.51	15.58	10.36	10.46	9.94
110.13	109.59	98.57	98.55	98.62	103.59	103.99	104.01

46'	38'	20'	18'	19'	4'		
1.90	2.60	12.64	12.92	12.45	5.11	3.94	3.09
105.63	104.93	99.87	99.61	95.08	102.92	103.59	104.44

42'	36'	25'	20'	15'	4'		
6.83	7.24	14.09	15.41	14.10	6.98	6.70	5.96
103.39	102.98	96.13	94.81	96.12	103.27	103.52	104.26

16.02 flow line on bridge STA 12+61
Bridge has concrete floor

15

Sta.

+

T

-

Elev

Bm²

2.07

110.53

108.96

14+00

0

3.83

108.70

5.62

112.32

16+00

0

4.97

108.35

5.58

112.93

18+00

0

7.11

106.82

6.30

112.12

20+00

0

6.21

106.91

6.90

112.81

22+00

0

7.61

105.20

7.87

114.07

24+00

0

7.23

106.84

4.78

112.62

0

5.18

106.44

8.05

114.49

26+00

0

7.91

106.58

5.61

112.19

16

FISTH T. STK

E

7.32'

7.58'

7.95'

14.91'

15.29'

14.5'

7.66'

6.96'

5.96'

102.75

102.58

96.12

95.29

96.02

102.87

104.07

105.07

3.9'

3.9'

2.9'

2.2'

2.0'

1.5'

2.02'

9.09'

8.25'

104.12

104.32

96.97

96.56

96.31

103.70

103.23

103.07

4.5'

3.5'

2.5'

2.2'

1.9'

9'

7.83'

9.19'

8.01'

102.93

102.69

92.40

97.49

97.59

105.10

103.79

104.92

4.7'

4.2'

3.2'

2.0'

1.8'

8'

7.71'

8.25'

7.37'

106.81

105.60

98.14

97.81

92.11

109.41

103.57

104.75

4.9'

4.4'

3.9'

2.7'

2.5'

1.5'

8.36'

8.21'

7.32'

107.18

106.21

97.14

97.11

97.30

104.45

104.00

105.49

4.9'

4.4'

3.1'

2.2'

2.0'

1.0'

7.93'

8.27'

7.32'

107.86

108.15

97.08

98.97

97.16

105.69

104.68

105.75

4.8'

4.3'

3.3'

2.1'

1.9'

7'

5.79'

5.10'

6.96'

106.25

108.69

100.06

97.84

100.11

105.99

105.57

106.50

17	+	π	-	2.22
28+00				
0			2.13	109.06
	3.72	113.78		
30+00				
0			6.07	108.71
	5.11	112.82		
32+00				
0			2.75	109.07
	5.74	112.81		
34+00				
0			0.93	112.88
	0.66	112.54		
36+00				
0			3.17	112.37
	3.80	116.17		
38+00				
0			4.29	112.93
	4.83	116.76		
40+00				
0			2.86	112.90
	2.83	116.73		
42+00				
0			7.21	108.52
	5.11	112.63		
44+00				

18	+	π	-	2.22
28+00				
0			2.13	109.06
	3.72	113.78		
30+00				
0			6.07	108.71
	5.11	112.82		
32+00				
0			2.75	109.07
	5.74	112.81		
34+00				
0			0.93	112.88
	0.66	112.54		
36+00				
0			3.17	112.37
	3.80	116.17		
38+00				
0			4.29	112.93
	4.83	116.76		
40+00				
0			2.86	112.90
	2.83	116.73		
42+00				
0			7.21	108.52
	5.11	112.63		
44+00				

19	+	-	K/er
STA			
0	7.29	117.32	117.03
46+00			
0	3.32	117.40	117.08
48+00			
0	5.88	117.86	117.98
0	4.62	117.74	117.12
50+00			
0	4.88	117.86	117.98
52+00			
0	6.16	117.77	117.61
54+00			
13 M ³		0.28	115.49

20
AS. 1.5^x

4

40'	50'	35'	30'	25'	10'
5.22	5.07	12.53	12.68	13.58	5.16
111.10	111.23	102.79	102.64	102.89	111.16
					111.53
					112.57

45'	50'	38'	33'	28'	8'
4.52	4.34	12.43	12.35	13.4	4.73
111.38	112.46	103.47	103.05	103.4	111.67
					112.14
					113.09

50'	44'	34'	24'	24'	4'
4.61	7.86	14.63	15.00	15.10	5.97
110.73	110.28	109.11	103.74	103.64	112.81
					112.98
					119.12

53'	43'	33'	24'	25'	10'
7.00	7.17	12.44	12.47	12.30	7.14
109.86	109.69	109.42	109.39	108.56	109.22
					111.4
					112.35

36'	30'	20'	17'	12'	2'
1.80	5.88	10.75	10.81	10.74	5.29
110.97	109.87	105.02	104.96	105.03	110.88
					110.79
					111.97

10.85

104.92

	+	-	Elev
BM 3	6.98		115.26
56+00			
0		4.21	
	3.78		
58+00			
0		3.85	
	3.75		
60+00			
0		3.00	
	4.01		
62+00			
0		4.62	
	3.25		
64+00			
0		3.97	
June 21, 1965			
B.M. 3			
			115.26
	1.41	116.67	
T.P.		4.65	112.02
62+00	5.19	117.21	
0	4.31	7.31	109.90
64+00	5.21	115.11	
0	4.64	4.64	110.47

SS. T. STR.

46'	48'	22'	20'	18'	3'		
3.20	3.16	10.99	11.10	11.03	5.22	5.16	4.30
112.96	112.61	109.78	104.67	100.79	110.55	110.61	111.97
39'	29'	19'	17'	15'	3'		
3.74	4.00	10.05	10.23	9.96	4.78	4.52	3.73
112.03	111.28	105.72	105.54	105.81	110.99	111.25	111.99
0.11	0.31	2.3'	2.1'	1.9'	0.1'		
15.66	115.46	105.97	105.97	105.83	110.49	111.11	112.02
49'	38'	24'	25'	22'	10'		
2.88	3.28	10.52	10.74	10.35	5.22	5.10	4.01
112.89	112.49	105.25	105.03	105.41	110.55	110.67	111.26
45'	34'	26'	27'	20'	10'		
1.08	2.21	8.52	8.81	8.74	2.89	4.28	3.97
113.79	113.56	104.25	106.76	107.03	112.88	111.49	112.30
42'	39'	24'	20'	16'	3'		
3.89	4.42	11.33	11.89	11.25	6.22	6.10	5.36
113.32	112.79	105.29	105.39	105.96	110.99	111.4	111.95
1.54	2.38	2.80	2.10	2.75	3.36	3.32	2.83
113.57	112.73	106.31	106.01	106.35	111.75	111.29	112.08

23

	+	-	
66	5.26	115.73	
68 + 00			
①		1.31	119.42
	6.41	120.83	

Floor of
R.R. bridge

68

~~70~~ + 00

70

~~72~~ + 00

①

72

~~74~~ + 00

①

June 22, 1965

Weather: Warm
overcast

74

~~76~~ + 00

①

76

78

80

82

84

86

88

90

92

94

96

98

100

102

104

106

108

110

112

114

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690

692

694

696

698

700

702

704

706

708

710

712

714

716

718

720

722

724

726

728

730

732

734

736

738

740

25

	+	-	ELEV
76	5.28	121.44	116.12
78	5.37	121.55	116.18
80	5.19	121.62	116.43
82	0.50	121.56	117.33
84	6.689	124.02	117.67
86	2.58	120.25	117.65
88	3.27	120.94	117.67
89		121.94	

June 23

cool

cloudy

Wind: SSW 200

86+00	3.89	121.56	117.67
		122.56	118.67

26

42'	34'	26'	18'	9'	0'	7.03	7.56
118.20	111.97	108.57	108.33	108.29	114.09	116.04	117.36
31'	30'	25'	21'	17'	11'	8.73	7.56
113.08	113.13	109.81	107.61	108.75	112.59	112.82	112.99
50'	35'	45'	8'	35'	23'	5.56	4.22
115.16	114.34	109.38	108.88	109.11	116.65	115.9	117.84
31'	28'	20'	13'	6'	0'	6.84	
116.05	116.9	110.59	110.16	109.67	115.13	115.25	
28'	25'	17'	15'	13'	10'	6.51	
117.34	117.07	111.03	111.19	111.60	116.90	115.56	
41'	38'	31'	24'	17'	8'	6.51	
116.77	116.24	112.12	111.41	112.4	116.49	116.88	

	+	+	-	EDV
83+00	5.95	122.48	5.53	116.53
88+00		123.48		117.53

90+00	2.20	122.24	2.44	120.04
		123.24		121.04

92+00				117.74
94+00	5.00	122.74	9.50	118.74

			2.10	120.64
				121.64

B.M. #3

According to
Bench circuit
120.58

B.M. #4

3.32 123.90

120.58

96.00

34'	37'	21'	14'	2'	Gd	73'
4.38	4.58	10.57	11.27	12.46	5.28	4.81
118.07	117.90	111.81	111.21	111.82	117.20	117.67
						118.75

44'	41'	36'	3'	26'	17'	Gd.
4.51	5.69	10.11	9.80	9.49	5.51	5.62
117.73	116.55	112.13	112.40	112.75	116.73	116.62
20'	28'	22'	18'	14'	2'	Gd.
4.40	9.60	9.86	9.75	9.22	5.92	5.75
117.75	117.64	112.38	112.47	113.02	116.42	116.49

28'	27'	21'	11'	7'	Gd.
4.74	4.82	9.81	10.25	10.39	6.09
115.90	115.82	110.83	110.39	110.25	114.53
118.10	117.92	112.93	112.49	112.35	116.65
					117.37

FLOW LINE ON BRIDGE 225E
11.4 11.59

32'	31'	28'	18'	13'	3'	Gd.
6.31	6.23	11.07	11.33	11.60	6.60	6.51
117.54	117.67	112.83	112.99	112.90	117.80	117.59

29

+

x

-

0

1.20 122.70

2.34 125.04

98+00

↓

122.70

4.01 126.71

100+00

102+00

0

7.38 119.33

8.56 127.89

104+00

106+00

0

6.64 121.25

4.91 126.16

108+00

0

1.07 125.09

.72 125.81

110+00

↓

125.09

5.25 130.34

0

4.75 125.59

30

34' 31' 25' ♀ 15' 4' G+54x
 7.22 7.57 11.84 12.24 11.79 4.45 5.23
 117.82 117.49 113.20 112.80 113.15 120.59 119.79

27' 24' 16' ♀ 12' 6' G+54x
 8.57 9.14 13.66 13.75 13.23 8.47 7.52
 118.14 117.57 113.05 112.96 113.48 118.24 119.19

36' 32' 27' ♀ 19' 6' G+54x
 8.11 9.08 12.50 13.60 12.57 6.06 6.03
 118.60 117.63 114.41 113.65 114.74 120.65 120.68

38' 35' 25' ♀ 14' 2' G+54x
 8.57 8.71 12.79 12.74 12.20 8.78 8.22
 119.92 119.18 115.10 115.15 115.69 119.11 119.67

28' 24' 20' ♀ 15' 10' 5'
 9.06 9.61 12.07 12.79 12.41 7.50 6.54
 118.83 118.28 115.82 115.10 115.98 120.39 121.35
 33' 31' 26' ♀ 20' 19' 8'
 6.33 6.45 10.45 11.09 10.41 6.79 5.78
 119.83 119.71 115.71 115.07 115.25 119.37 120.38
 5.59 6.06 10.25 10.19 9.89 5.93 5.83
 120.22 119.81 115.56 115.62 115.92 119.88 119.98

3'	+	π	-	ELEV
				125.59
	4.65	130.24		
112+00				
⊙	4.54	125.70		
	5.04	130.74		
114+00				
⊙	4.73	126.01		
	5.09	131.10		
⊙		5.99	125.13	
116+00	0.90	126.03		
⊙		1.35	124.68	
118+00	2.17	126.85		
⊙		3.52	123.33	
120+00	4.87	129.20		
⊙		4.82	123.38	
122+00	5.03	128.41		
124+00				
⊙		3.72	124.67	
	4.81	129.50		
124+00				
⊙		5.31	124.19	

32									
55'	52'	42'	21'	17'	GASK				
7.15	7.34	14.20	14.49	13.82	10.24	9.62			
123.09	122.90	118.09	115.77	116.42	120.00	120.57			
37'	35'	29'	27'	21'	12'	6.27			
18.12	9.91	19.00	19.35	14.10	9.31				
120.62	120.83	116.79	116.39	116.69	121.93	123.87			
7.15	6.91	7'	13'	19'	31'	41'			
3.39	4.51	4.93	8.54	9.15	7.04	3.74	3.34		
122.69	121.52	121.10	117.99	116.88	116.99	122.29	122.69		
GASK	GASK	3'	13'	21'	31'	34'			
2.17	3.05	3.91	8.97	9.85	9.56	6.55	5.23		
124.68	123.80	122.99	117.88	117.00	117.29	120.30	121.12		
GASK	GASK	10'	10'	16'	28'	31'			
4.87	5.60	5.60	10.82	10.95	10.56	6.30	6.10		
123.33	122.60	122.50	117.38	117.25	117.69	121.90	122.10		
5.03	GASK	2'	12'	18'	26'	30'			
4.48	5.48	5.84	10.28	10.85	10.19	4.85	3.97		
123.93	122.93	122.57	118.13	117.86	118.22	123.56	124.99		
GASK	GASK	1'	12'	18'	28'	31'			
4.25	5.16	5.41	11.12	11.11	10.67	4.83	4.69		
125.35	124.34	124.09	118.38	118.39	118.93	124.67	124.81		

33	+	π	-	ELEV
126+00	4.10	128.29		
①			6.58	121.71
128+00	5.00	126.71		
①			3.40	123.31
130+00	4.27	127.58		
①			4.10	123.48
①	5.32		4.10	123.48
132+00	5.32	128.80		
①			3.34	125.46
134+00	5.47	130.93		
①			1.61	129.32
136+00	2.99	132.31		
①			1.84	130.47
138+00	0.36	130.83		
①			5.82	125.01
140+00	4.95	129.96		
BM 5			2.69	127.27
①			2.69	(127.17)
142+00	5.09	132.36		

compare with
bench circuit
to 127.17

469	5.09	5.66	9.40	9.52	9.46	4.25	4.40
123.00	122.90	122.63	118.89	118.77	118.83	129.05	123.89
251	3.45	3.17	7.44	7.69	7.47	4.54	4.56
124.20	123.26	122.99	119.22	119.02	119.29	123.12	122.15
255	3.49	3.93	8.16	8.19	8.17	4.49	4.55
123.03	124.09	123.65	119.92	119.39	119.91	123.09	123.03
234	4.07	4.24	8.33	7.06	8.17	4.78	4.74
125.96	124.76	124.56	119.97	119.79	119.93	129.02	129.06
322	4.43	4.43	10.65	10.70	10.79	6.16	6.09
127.71	126.50	126.50	120.28	120.23	120.19	129.77	129.84
299	3.89	3.87	11.29	11.70	11.96	5.82	5.35
129.32	128.42	128.92	121.02	120.61	120.91	126.89	127.06
423	5.26	6.78	9.40	9.15	6.70	5.49	
126.60	125.57	129.05	121.93	121.68	124.13	125.39	
505	5.30	8.30	8.39	8.08	3.23	2.58	
124.91	124.66	121.06	121.57	121.88	126.73	127.38	
599	6.15	10.00	10.59	10.03	5.95	5.84	
126.37	126.21	122.76	121.77	122.33	126.91	126.32	

35

+ X - ELEV

B.M. 5

12.17

5.08

122.25

144400

0

6.06 126.19

5.17 131.36

146400

6.88 124.48

4.77 129.35

148400

0

6 4.58 124.77

5.94 130.74

150400

0

4.69 125.92

6.37 132.39

152400

0

6.54 125.85

6.54 132.39

B.M. 6

6.28 126.71

HEAD OF CORNER

OF HEAD SWELL

B.M. 3

115.26

3.46 118.92

0

3.38 115.34

36

B.M. 4

21

71

C

171

20

10.12

6.89

10.12

10.38

10.13 22

125.63

125.76

122.13

121.87

122.12

122.05

B.M. 5

21

131

C

151

231

251

5.32

5.36

8.93

9.06

8.99

6.07

5.37

125.63

124.01

123.93

123.30

123.37

123.27

125.99

B.M. 6

91

21

C

161

231

251

5.06

5.63

6.23

6.34

6.15

3.42

3.90

124.19

123.62

123.02

122.91

123.10

125.83

125.35

B.M. 7

41

91

C

211

271

281

4.90

5.17

6.54

7.24

6.73

3.52

4.20

125.61

125.44

123.87

123.35

123.88

127.09

126.41

B.M. 8

111

101

C

221

301

331

4.50

4.29

8.08

8.33

8.19

5.03

4.87

127.77

128.00

129.21

123.96

129.10

127.26

127.72

37
+ π - ELEV
"ARM
"A"

0.91 116.25
4+00
0 6.75 109.50

6.90 116.40

2+00

0 5.07 111.33

3.42 114.75

0 1.98 112.77

6.39 119.16

0+10

0 5.62 113.54

5.52 119.06

~~114.77~~ ~~107.57~~

0 6.76 112.30

4.65 *116.95

0 1.79 115.21

ARM
"B"

114.42

5.61 120.03

0 3.45 116.58

5.73 122.31

38

23' 35' 23' 21' 19' 3' 6d
5.91 6.59 11.05 11.13 11.11 5.15 4.26
110.34 109.66 105.20 105.10 105.14 111.10 111.99

31' 29' 21' 17' 1' 6.5d
5.31 5.49 11.43 11.64 11.41 6.45 6.10

111.09 110.91 109.97 109.76 109.99 109.95 110.30

41' 43' 23' 1' 19' 8' 6d
6.21 6.21 15.15 15.32 15.30 8.50 8.50
112.95 112.95 109.01 103.84 103.86 110.53 110.66

39

+ $\wedge$ - ELEV

"ARM"

B"

5.42 118.79

8.94 113.37

0+00

①

7.58 120.89

5.48 113.31

2+00

①

5.96 114.93

3.71 118.64

4+00

①

4.98 119.21

4.41 114.23

6+00

①

3.91 115.30

3.97 119.27

8+00

①

4.94 114.23

4.43 118.76

10+00

①

4.96 113.80

6.41 120.21

12+00

①

3.97 116.24

5.11 121.35

14+00

①

6.04 115.31

40

5.09	5.01	9.22	9.55	9.46	4.73	4.06
113.70	113.78	109.57	109.24	109.33	114.06	114.73
6.44	10'	26'	4	32'	39'	47'
7.58	7.66	11.52	11.62	11.67	8.31	7.49
113.31	113.23	109.37	109.27	109.22	112.55	113.95
6.44	20'	22'	4.28'	4.4'	4.7'	
6.15	8.63	9.21	9.36	9.25	3.91	3.91
112.49	110.01	109.43	109.28	109.39	114.73	114.73
5.1	4'	10'	10'	18'	21'	34'
4.18	4.51	9.09	9.60	9.23	5.33	3.19
115.13	114.70	110.12	109.61	109.98	113.88	116.02
6.44	10'	8'	4	24'	30'	42'
5.09	5.01	9.33	9.71	9.35	5.82	2.81
113.30	114.26	109.94	109.56	109.92	113.95	116.46
6.44	3'	9'	4	17'	23'	33'
4.56	4.94	8.01	8.33	8.21	5.32	3.06
114.20	113.82	110.75	110.43	110.56	113.44	115.70
6.44	2'	18'	4	26'	32'	38'
7.58	2.49	8.56	8.6	9.22	3.10	3.58
117.79	117.72	111.65	111.60	110.99	117.11	116.63
5.1	4'	12'	15'	18'	26'	39'
4.53	5.35	9.99	10.22	9.96	4.91	3.93
116.82	114.00	111.86	111.17	111.39	116.54	117.92

41

+

A

-

ELEV

115.31

16+00

4.04

119.35

0

1.79

117.56

18+00

5.73

123.29

0

2.54

120.75

126.01

5.45

130.46

~~FLOW LINE~~

42

5th 4' 8" E 14' 21' 25'

4.07 4.68 7.41 7.33 7.22 4.74 4.58

115.26 119.67 111.99 112.02 112.13 119.61 119.77

5th 4' 12' 15' 18' 24' 26'

5.80 6.65 9.60 10.13 9.93 5.01 4.69

117.44 116.65 113.69 113.16 113.36 118.28 118.60

8.07 FLOW LINE AT END
OF DITCH

122.39

123.39

9.51 TILE AT END
OF DITCH

120.95

121.95

	B+	I	F-	Elev.	B+. Or Elev.
95+26 B.M. 4	.7	121.28			120.38
94+00					108.66
92+00					108.26
90+00					107.86
88+00					107.46
T.P. #1	1.27	118.07	3.78	116.80	
86+00					107.06
84+00					106.66

Top of Stake Cut to bottom of Ditch

3.12
117.46 9.80

3.27
117.31 9.05

3.77
116.81 8.95

3.78
116.80 9.34

1.7
116.37 9.31

3.88
114.19 7.53

B+	A	F-	Elev.	Bt. D+ Elev.	Top of Stake	Cut to Bt. of Ditch
82+00				106.26	5.56 112.51	6.25

B+	T	F-	Elev.	Bt. or Df.
95+91				
B.P. 4	2.80		10.83	120.5

Top Stake Cut to Bt. of Ditch

123.38	120.58
10.83	2.80
<u>112.55</u>	<u>123.38</u>
10.83	2.80
123.38	120.58

	B+	A	F-	Elev.	B+D+ Elev.
95+91 B.M. 4	3.47	124.05			120.59
96+00					109.06
98+00					109.46
100+10					109.86
102+00					110.26
104+00					110.66
T.P. [#] 2	3.8	124.13	3.72	120.33	
106+00					111.06

Top of Stake Cut to B+ of Ditch

5.64
118.41 9.35

5.61
118.44 8.99

5.16
118.89 9.03

4.9
119.15 8.89

3.72
120.33 9.67

4.76
119.39 8.31

B+	π	F-	Elev.	Bt. D+ Elev.	Top of Stake	Cut to Bt. of Ditch
108+00				111.46	3.32 120.81	9.35-
110+00				111.86	3.12 121.01	9.15-
112+00				112.26	.8 123.33	11.07
114+00				112.66	2.43 121.70	9.04
T.P.#3	12.06	133.76	2.43	121.70		
116+00				113.06	9.51 124.25	11.19
118+00				113.46	10.47 123.29	10.83
120+00				113.86	11.18 122.58	8.72

	B+	A	F-	Elev.	Bt. D+. Elev.	Top of Stake	Cut to Bt. of Ditch
T.P. #4			11.18				
122+00					114.26		
124+00					114.66	5.60 124.23	9.57
126+00					115.06	7.93 121.99	6.84
128+00					115.46	7.44 122.39	6.93
130+00					115.86	6.40 123.43	7.57
132+00					116.26	5.72 126.11	9.85
134+00					116.66	4.07 125.76	9.10

	B+	π	F-	Elev.	Bt. D. Elev.	Top of Stake	Cut to Bt. of Ditch
T.P. #1	2.50		1.80				
136+00					119.0	1.80 128.03	10.97
138+00					117.46	3.91 125.87	9.41
140+00					117.81	4.58 125.25	7.39
142+00					118.2	3.58 126.25	7.99
143+00							
B.M. 5	3.52	129.83	2.66		127.19		
	↓	130.69					
144+00					118.46	5.82 124.87	6.21
146+00					119.06	3.51 127.18	8.12
148+00					119.46	4.61 126.08	6.62

St	A	F-	Elev.	8+5 Elev	Top of Stake	Cut to Bt. of Ditch
150+00				119.1	2.80 127.89	8.03
152+00				126.6	3.79 126.91	6.65

	B ⁺	T	F-	Elev.
B.M. 5	2.76			122.17

122.51

122.05

122.29

T.P. 1 [#]	9.80	122.29	7.64	132.09
---------------------	------	--------	------	--------

123.13

121.17

T.P. 2 [#]	7.38	121.17	10.92	128.55
---------------------	------	--------	-------	--------

120.15

130.37

118.93

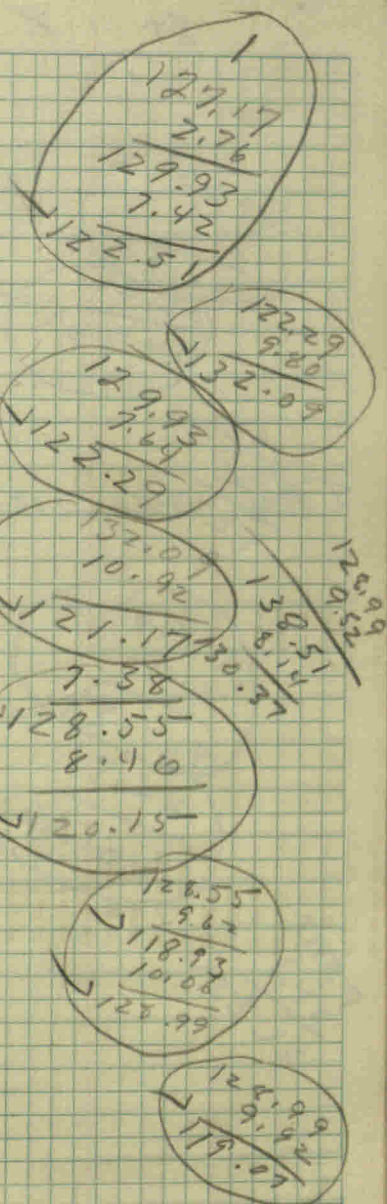
T.P. 3 [#]	10.06	118.93	9.62	128.99
---------------------	-------	--------	------	--------

TILES

No Number

No Number

Tile No Number



B+ π F- Elev.

Title No

20

119.07

6

128.99
9.86
119.13
10.80
129.43

T.P. 4th 10.30 119.13 9.86 129.43

7

129.43
11.56
117.87

117.87

8

127.17
4.12
131.29
9.24
122.05

131.29
9.24
122.05

B+	K	F-	Elev.
B.M. 4*	3.50	124.08	120.58

114.90

116.24

115.80

115.68

Tile No

1

$$\begin{array}{r} 120.58 \\ 3.50 \\ \hline 124.08 \\ 9.19 \\ \hline 114.90 \end{array}$$

2

$$\begin{array}{r} 124.08 \\ 7.84 \\ \hline 116.24 \end{array}$$

3

$$\begin{array}{r} 124.08 \\ 8.28 \\ \hline 115.80 \end{array}$$

4

$$\begin{array}{r} 124.08 \\ 8.40 \\ \hline 115.68 \end{array}$$

5

B+ π F- Elev.

Tile No

121

0+0

1+0

+

2+0

122

outlet

4R

4R

123

0+00

1+00

2+00

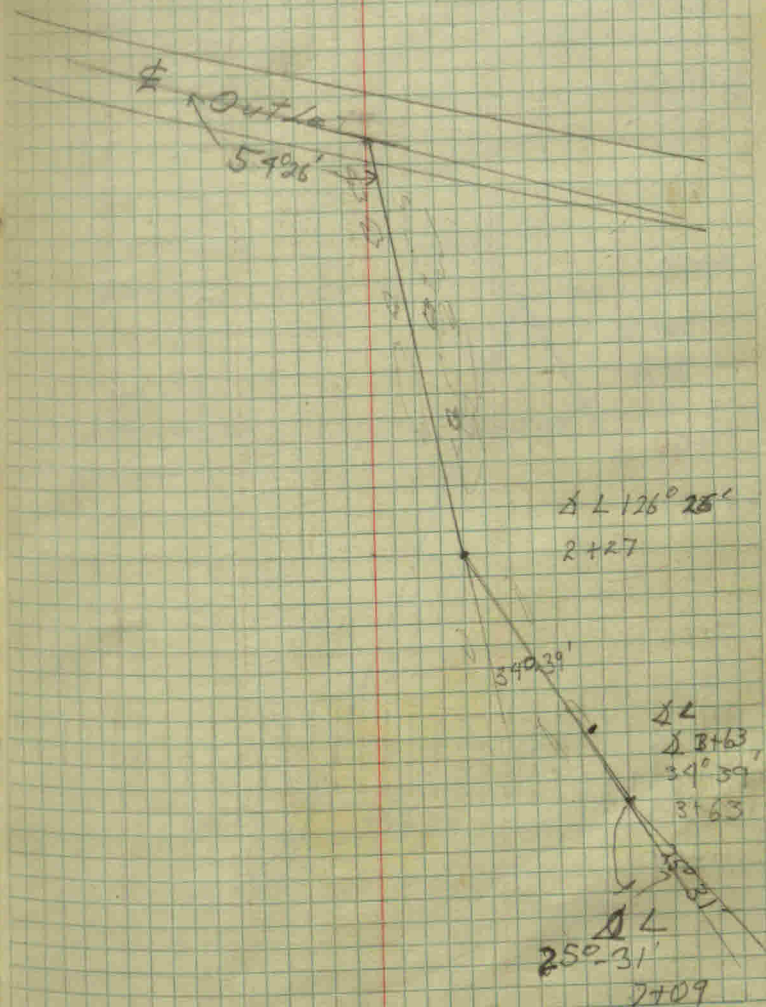
2+27

3+00

3+63

4+00

124



125
5+00

6+00

7+00

8+00

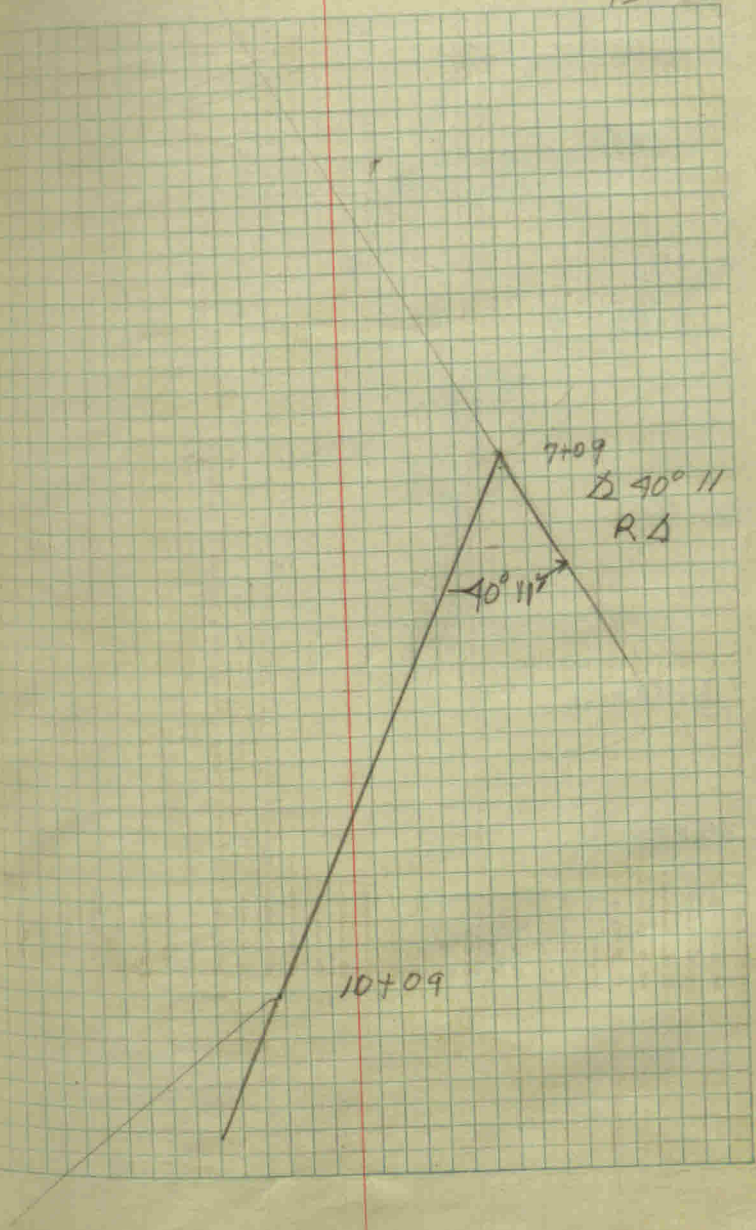
9+00

10+00

10+09

11+00

126



127

12+00

13+00

14+00

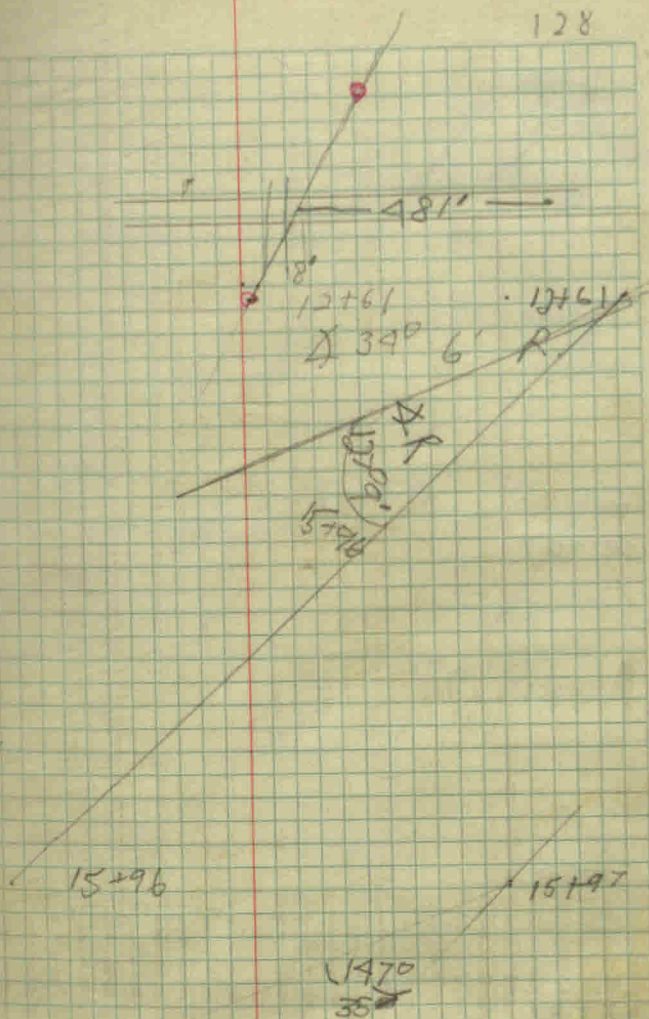
15+00

15+96

16+00

17+00

128



129

17+96

18+00

19+00

20+00

20+07

21+00

22+00

22+87

23+00

130

17+96

147°35' R.

120°59'

Δ 120°59' L
20+07

50°11' R

22+87

22+87

22+87

10°36' L R

131

24+00

25+00

26+00

26+73

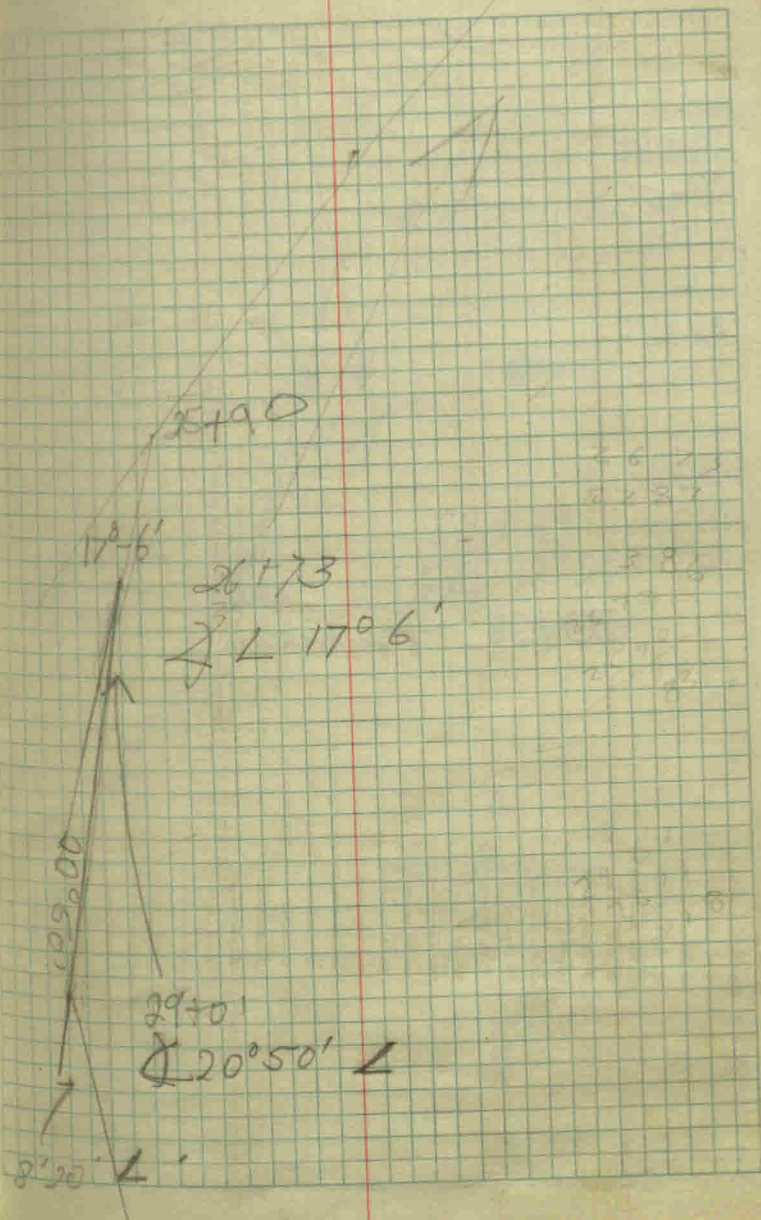
27+00

28+00

29+00

30+00

132



31+00

31+51

32+00

33+00

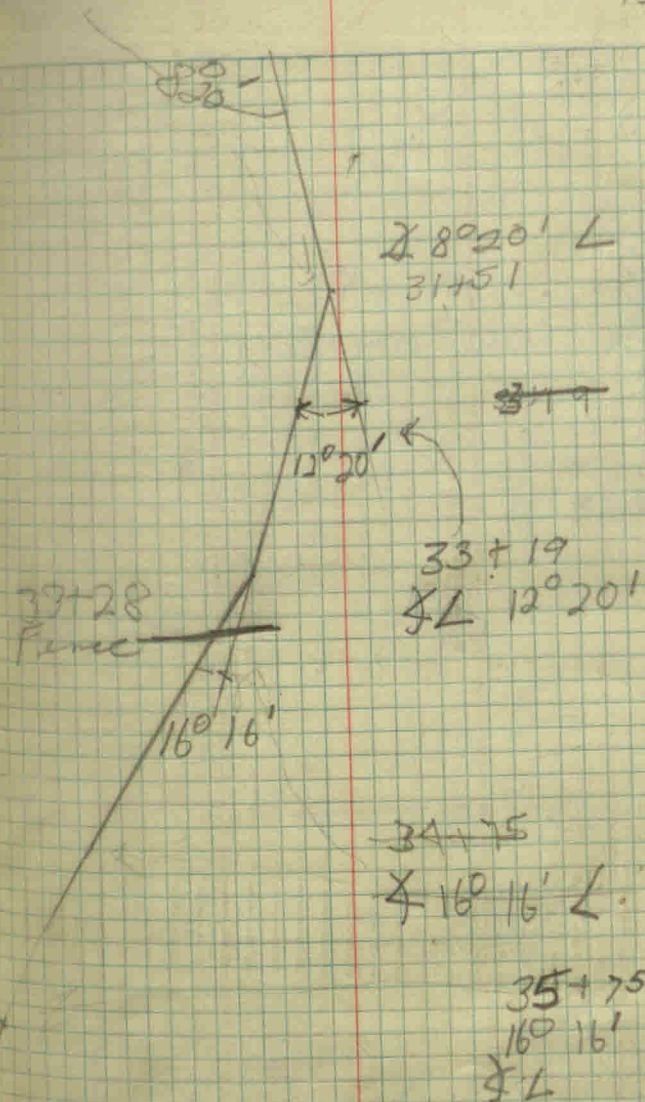
33+19

33+28 Fence

34+00

35+00

36+00



195

37+00

37+75

38+00

39+00

40+00

41+00

42+00

42+48

Fence

42+75

196

42+75

37+75
Δ 30° 20' RC
42° 32'

41+50

← 8" C.M.P.

42+48 Fence
Δ R 42° 32'

42+75

137

43+00

44+00

44+19

45+00

45+60

46+00

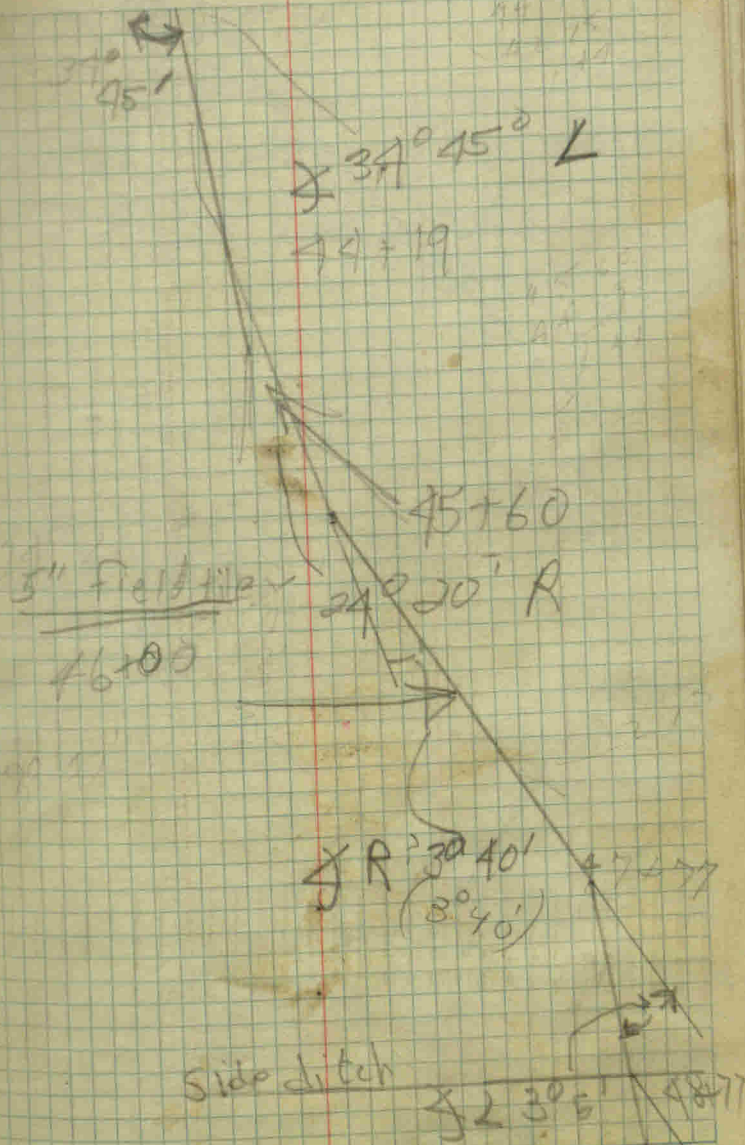
47+00

47+77

48+00

49+00

138



139

49+88

50+00

51+00

52+00

52+03

53+00

54+00

54+90

55+00

55+03 Road

140

2790

42°30'

49+88

Natural Gas
Pipe Line50+54 (Purthand)
(Eastern)

42°30'50'

52+03

52+03

42°27'30'

Natural Gas
Pipe Line52+03
(Purthand)
(Eastern)

54+00

Natural Gas
Pipe Line
(Purthand Eastern)54+90
Reel at 55+03

534'7"

191

✓ 56+00

✓ 57+00

✓ 57+90
✓ 58+00

✓ 59+00

✓ 60+00

✓ 61+00

192

✓ ~~4~~ R 12° 8'

57+90

~~57+90~~10"
EMP

58+15

south
bank

57+90

✓ R 45° 60'

193

✓ 62+00

✓ 63+00

✓ 64+00

✓ 65+00

✓ 66+00

67+00

141

45° 6'

6" Road

← 62+53

63+30

63+30

30° 30'

66+66

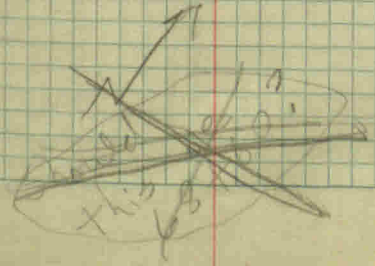
8" CMP

64+22

6" Road
65+00

R.R. 66+60

66+66



R 100°

67+30

TOWN R

30' dia 5' h

1.5

195

68+00

69+00

70+00

71+00

72+00

73+00

74+00

196

fence
69+00

10" emp
69+80

73+60
fence

197

75+00

76+00

7

77+00

78+00

79+00

79+80

80+00

198

4" p. field
7/16
74+41

79+80 ditch 'B'

149

81+00

81+61

82+00

83+00

84+00

85+00

86+00

150

~~SR 1000~~

81+61

~~SR 20°-20'~~

field tile
84+66 →

NATURAL GAS PIPE
86+00

151

87+00

88+00

89+00

90+00

91+00

92+00

152

K2 PIPELINE
88+15

153

93+00

94+00

95+00

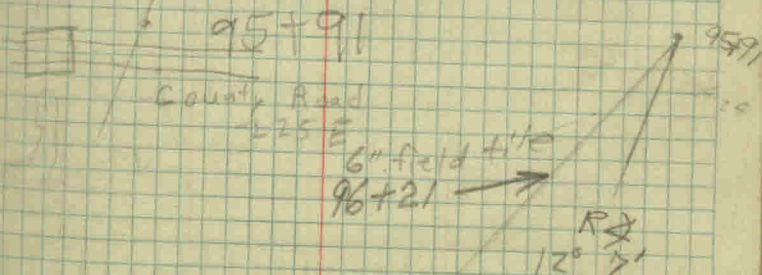
96+00

97+00

98+00

99+00

159



155

100+00

101+00

102+00

103+00

104+00

104+24

105+00

156

5" field line
100+00 → 99+69

gas
pipeline
100+14

104+24

68 55' R A

749

111+73

LF 57' 42"