

71

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LEVEL BOOK

744

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PLEASE RETURN TO  
 GAUGA COUNTY ENGINEER

TABLE FOR REDUCING PERCHES TO FEET AND INCHES.

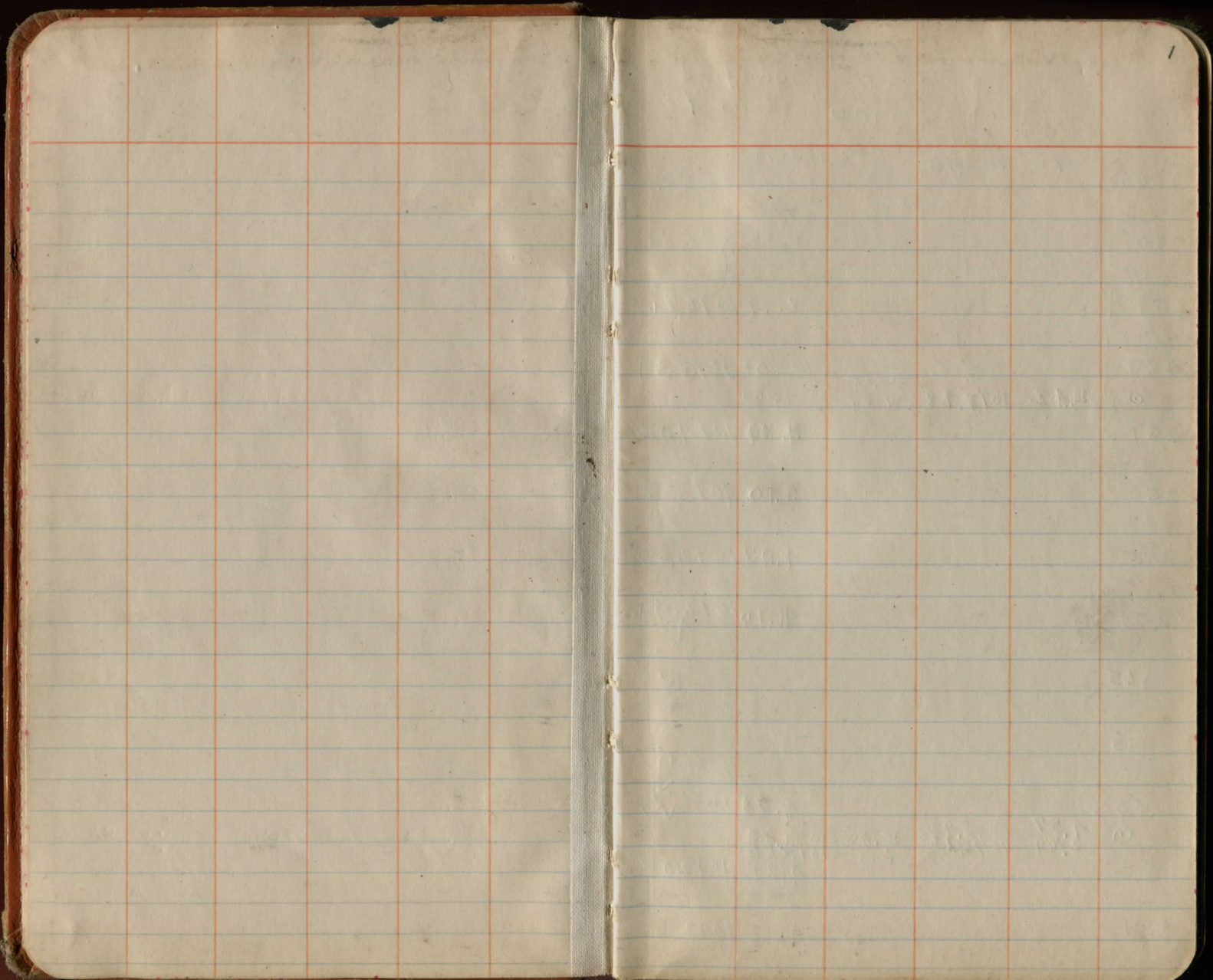
PERCH.	FEET.	PERCH.	FEET.	PERCH.	FEET.	PERCH.	FEET.	PERCH.	FEET.	PERCH.	FEET.
1	16.6 in.	21	3.46.6 in.	41	6.76.6 in.	61	10.06.6 in.	81	13.36.6 in.		
2	33.0	22	3.63.0	42	6.93.0	62	10.23.0	82	13.53.0		
3	49.6	23	3.79.6	43	7.09.6	63	10.39.6	83	13.69.6		
4	66.0	24	3.96.0	44	7.26.0	64	10.56.0	84	13.86.0		
5	82.6	25	4.12.6	45	7.42.6	65	10.72.6	85	14.02.6		
6	99.0	26	4.29.0	46	7.59.0	66	10.89.0	86	14.19.0		
7	1.15.6	27	4.45.6	47	7.75.6	67	11.05.6	87	14.35.6		
8	1.32.0	28	4.62.0	48	7.92.0	68	11.22.0	88	14.52.0		
9	1.48.6	29	4.78.6	49	8.08.6	69	11.38.6	89	14.68.6		
10	1.65.0	30	4.95.0	50	8.25.0	70	11.55.0	90	14.85.0		
11	1.81.6	31	5.11.6	51	8.41.6	71	11.71.6	91	15.01.6		
12	1.98.0	32	5.28.0	52	8.58.0	72	11.88.0	92	15.18.0		
13	2.14.6	33	5.44.6	53	8.74.6	73	12.04.6	93	15.34.6		
14	2.31.0	34	5.61.0	54	8.91.0	74	12.21.0	94	15.51.0		
15	2.47.6	35	5.77.6	55	9.07.6	75	12.37.6	95	15.67.6		
16	2.64.0	36	5.94.0	56	9.24.0	76	12.54.0	96	15.84.0		
17	2.80.6	37	6.10.6	57	9.40.6	77	12.70.6	97	16.00.6		
18	2.97.0	38	6.27.0	58	9.57.0	78	12.87.0	98	16.16.6		
19	3.13.6	39	6.43.6	59	9.73.6	79	13.03.6	99	16.33.6		
20	3.30.0	40	6.60.0	60	9.90.0	80	13.20.0	100	16.50.0		

COURT HOUSE  
 CHARDON, O.  
 PHONE 250-X

B. K. ELLIOTT COMPANY, PITTSBURG, PA.  
 DRAWING MATERIALS AND SURVEYING INSTRUMENTS

CHILLOCOTHE  
 ROAD  
 CHESTER  
 TWP  
 B. R. KENNEY  
 CO. SURVEYOR  
 CHARDON  
 OHIO

(71)



MAK4 Sanford  
LACHER CUTTREL  
GRAU

PLAN C  
D12

COUNTY LINE 1084.75  
0.60 1085.35

260-75

1080.20

17.0 22.5 1

260

6x55 1078.80

0.0 (F1.5 / 17.5)

15.0

18.5

(F0.3 / 19.3)

F0.2

259 R

8.39 1076.96

F0.4 (F0.1 / 19.6)

19.0

18.0

(F0.7 / 18.7)

F0.6

258

10.04 1075.31

F0.6 (F0.8 / 18.6)

18.0

18.0

(F1.0 / 18.3)

F0.7

0

2.42 1077.12

10.65  
WREG

1074.70

F1.3 (F1.4 / 17.7)

17.3

17.3

(F1.3 / 17.8)

F1.2

257

3.10 1074.02

F1.3 (F1.5 / 17.5)

17.3

20.0

(C0.3 / 20.7)

C0.5

256

4.10 1073.02

F1.9 (F2.1 / 16.6)

16.5

17.2

(F1.8 / 17.5)

F1.6

255

4.45 1072.67

F0.7 (F1.2 / 18.0)

17.8

23.0

(C 3.2 / 23.6)

C 3.5

254

4.70 1072.42

1

20

25.0

(C1.7 / 21.3)

C 1.9

+65

Y.D.O.N.R

+15

253 >

4.95 1072.17

F0.5 (F1.2 / 18.0)

17.3

18.0

(C1.7 / 21.3)

4.57  
2.89

1075.92  
1076.15

5.75

1071.37  
1073.56

4.37 1072.08

F1.6 (F1.5 / 17.5)

17.3

17.3

(F1.4 / 17.7)

F1.5

252

251

4.13 1072.32

F1.4 (F1.3 / 17.8)

17.5

18.3

(F1.2 / 18.0)

F0.8

21  
12  
109

107645

250 3.73 1072.72

F14 (F14 / 17.7) 17.7 183 (F10 / 183) F0.9

249 2.65 1073.80

F24 F23 / 16.4 16.2 17.0 (F17 / 17.2) F1.7

248 0.23 1076.22

F0.1 (F0.4 / 19.2) 19.2 19.2 (F0.2 / 19.5) F0.2

6.07 1082.29 0.33 (1076.12)

247 3.29 1079.00

c1.9 c1.8 / 22.4 21.7 20.5 (c2.0 / 22.8) c2.2

ON W. peg

248 1079.05

21.7 ~~23.0~~

246 5.55 1076.74

F07 (F14 / 17.8) 17.0 19.0 (F0.6 / 18.9) F0.3

245 8.22 1074.07

F2.6 (F2.3 / 16.3) F6.0 17.7 (F1.2 / 18.2) F1.2

244 8.25 1074.04

(c0.4) (c0.5 / 20.5) 20.2 19.5 (F0.3 / 19.3) F0.1

243 6.95 1075.34

F11 (F1.3 / 17.8) 17.5 19.2 F0.3 / 19.3 F0.3

8.96 1083.18 8.07 1074.22

242 6.54 1076.64

F0.8 (F0.8 / 18.6) 18.3 19.5 (c0.0 / 19.7) c0.1

241 5.34 1077.84

F1.1 (F1.3 / 17.8) 18.0 18.2 (F0.9 / 18.1) F0.9

240 3.94 1079.24

c1.4 (c1.2 / 21.5) 20.7 20.0 (c0.2 / 20.1) c0.3

BM

2.70 1083.11

2.70 1080.48

1080.41

PT 5.21 24.61 6.0

1083.11

239 2.57 1080.54

238 1.36 1081.75

237 6.04  
72 1082.39ON E peg  
7.16 1088.43  
(1.84) 1081.27

236 5.49 1082.94

235 4.85 1083.58

234 4.07 1084.39

+50 ~~1084.87~~

233 3.05 1085.38

+50 ~~1085.94~~

232 1.89 1086.54

~~230~~ 1.26 1087.17

231 6.4 1087.99

0 0.97 1087.46

+50 W. 8.62 peg 1096.08  
7.56 1088.42

230 7.04 1089.04

+50 1089.67

C0.7 (C0.4  
20.4) 20.0 20.0 (C0.3  
20.2) C0.5F0.3 (F0.5  
19.0) 18.7 18.3 (F0.9  
18.4) F0.8F0.4 (F0.6  
18.9) 19.0 18.0 (F1.2  
18.0) F1.1F1.4 (F1.1  
18.2) 18.4 17.7 (F1.4  
17.7) F1.3F1.2 (F1.1  
18.1) 18.2 17.5 (F1.2  
18.0) F1.4F1.2 (F1.2  
18.0) 18.0 18.2 (F1.1  
18.1) F1.0F1.1 (F1.4  
17.3) 17.5 18.5 (F0.5  
18.6) F0.4F0.2 (F0.3  
18.9) 19.0 19.2 (F0.2  
19.1) 0.0F0.3 (F0.5  
19.0) 19.0 18.5 (F0.8  
18.2) F0.4F1.0 (F1.0  
18.3) 18.2 18.0 (F1.2  
17.6) F1.00.8  
5.5605  
95

4

Surf Elev 1.2 + 21 = 0.5  
1.50

from dist

1096.08

229 5.79 1090.29

F0.7 (F0.7 / 18.7) 18.7 18.0 (F1.0 / 17.9) F0.9

+50 1090.92

228 4.54 1091.54

F1.0 (F1.1 / 18.1) 18.2 18.0 (F0.8 / 18.2) F0.9

+50 1092.17

227 3.29 1092.79

F1.1 (F1.1 / 18.1) 18.0 18.0 (F0.8 / 18.2) F0.8

+50 ~~2.56~~ 1093.52

226 1.65 1094.43

C0.5 (C0.6 / 20.7) 19.5 18.3 (F0.9 / 18.0) F0.7

1.15 1094.93

+50 1095.54

m w. Pay 9.77 1104.70

225 7.86 1096.84

C0.3 C0.2 / 20.1 20.0 19.0 (F0.3 / 19.3) F0.3

224 5.06 1099.64

C0.4 C0.5 / 20.5 18.7 18.4 (F0.8 / 18.6) F0.8

223 2.18 1102.52

F1.4 (2.2 / 16.4) 16.4 19.0 (F0.3 / 19.3) F0.2

1090 1013.54

Hp. Sta 222

222 2.06 1012.64 1107.12

F2.7 (F2.7 / 16.6) 19.0 21.0 (C1.4 / 24.8) C1.5

6.12

LACKEY  
GRAU  
PHILIPS

1013.54

221 <sup>13.13</sup> <sup>1.12</sup> 1112.42

⊙ 12.11 1025.55 0.10 1013.44  
220 7.83 1117.72

219 2.53 2.53 112302

⊙ 11.76 1037.12 0.19 1025.36  
218 8.80 1128.32

217 <sup>from Bm</sup> 104.74 3.50 1133.62  
⊙ 4.97 1041.66 0.43 1036.69 1136.53  
+25 2.10 1054.58

216 4.71 1137.03

215 4.38 1137.36

214 2.94 1138.80  
⊙ 6.87 1046.85 1.78 1039.96

213 6.35 1140.50

212 5.53 1141.32

+60 6.45 1140.40

211 8.25 1138.60

210 10.05 1136.80

209 5.39 1040.53 11.71 1035.14

F29 (33.176) 19.5 22.4 (C21 22.9) C2.4

F18 (F3.2 173) <sup>2.1</sup> 16.0 22.6 (C21 22.9) C2.4

C22 (C20 22.7) 22.7 22.0 (C15 22.0) C1.6

C09 (C0.8 21.0) 21.0 21.7 (C14 21.8) C1.5

C28 (C2.5 23.5) 23.0 23.0 (C2.7 23.8) C2.9

C1.7 (C1.6 22.2) 21.5 24.0 (C3.0 24.3) C3.1

C03 (C0.2 20.1) 20.0 22.0 (C1.6 22.1) C1.7

F25 (F2.5 16.1) 15.2 18.0 (F14 17.7) F1.2

F16 (F1.8 17.1) 17.0 18.0 (F11 18.1) F1.2

C01 (F2.0 19.5) 19.4 22.0 (C1.4 21.9) C2.0

C19 (C1.6 22.2) 22.5 23.0 (C2.8 24.0) C3.1

F0.7 (F0.8 18.6) 19.7 22.2 (C0.5 20.5) C0.6

F18 (F2.0 16.7) 17.5 19.7 (C0.5 20.5) C0.6

F18 (F2.0 16.7) 16.5 18.0 (F0.5 19.0) F0.3

F18 (F1.9 16.9) 17.0 19.6 (F11 18.2) F0.3

6.8  
4.4  
2.5

104053

208		<del>1171</del>	11.5.28	1135.25	F1.8	(F1.8 17.1)	17.0	18.0	(F1.1 18.1)	F0.6
207			5.30	1135.23	F1.9	(F2.0 16.7)	16.7	19.0	(F0.6 18.7)	F0.3
BM	578									
	1039.75									
206			5.20	1135.33	F0.8	(F1.0 18.4)	19.5	22.0	(C1.6 22.1)	C1.7
+75			5.54	1134.99	↖ 100.4	F0.2 20	21.5	16.7	C1.3 21.7	C1.5
+40						F1.6 17.4	13.5	17.0		
205				1132.52			13.3	16.0		
+50			10.01	1130.52	F1.5	(F1.5 17.5)	17.5	17.7	(F1.6 17.4)	F1.6
0			11.50	1029.03						
204	m.w. Peg	7.03	7.03	1129.30	F0.4	(F0.6 18.9)	18.2	19.0	(F1.1 18.1)	F1.0
	236.06									
203			5.34	1130.72	F1.4	(F1.7 17.2)	17.3	17.5	F1.7 17.2	F1.6
202			2.99	1133.07	F2.5	(F2.5 16.0)	16.2	21.5	at 20.5	C1.5
201			36	1135.74	F3.0	(F2.4 16.2)	16.0	20.0	(C0.2 20)	C0.1
200			7.80	1138.56	F2.5	(F2.2 16.5)	16.3	18.5	(F0.8 18.6)	F0.6
0	10.55	104636	0.25	1035.81						

705  
521

7

104636

199			4.98	1141.38	F2.6	(F24 163)	16.0	20	(C02 20)	C02
198			9.12 2.16	1144.20	F14	(F12 18)	17.5	23.0	02.4 23.4	C2.6
197	722 T.87	105332 105343	026	104616 1151.53	F07	(F06 189)	18.5	26.2	(C40 258)	C4.5
+40			5.12	1148.30	F02	(F01 196)	19.0	24.0	(C31 244)	C3.3
196			4.93	1148.49	F08	(F07 187)	18.2	23.0	(C23 231)	C2.5
195			5.41	1148.01	F14	(F14 177)	17.5	21.0	C1.3 21.7	C1.5
194			5.63	1147.79	F17	F15 175	17.5	17.5	F11 181	F08
193			5.27	1148.15	F18	(19 169)	16.5	21.3	C09 209	C1.2
192			4.35	1149.07	F2.3	(F21 160)	16.5	17.2	F16 179	F14
191	12.43	106102	4.83	1048.59	F1.6	(F15 175)	17.0	18.2	(F09 184)	F0.6
190			7.26	1153.76	F1.6	(F21 166)	15.0	17.2	(F13 178)	F0.6

106102 1002

189 <sup>14.52</sup>  
2.66 // 58.36

13.07 107.2.89 1.21 1059.81

188 10.03 // 62.85

187 6.33 // 66.55

186 3.42 // 69.46

185 <sup>376</sup>  
1.42 // 71.46  
090 1071.98

314 107512  
322  
107190  
3.31 // 71.91

184 <sup>3.36</sup>  
1171.86  
107221

183 Re Setup 3.46 // 70.66

182 5.23 // 68.89

181 5.62 // 68.50  
4.51 1072.60 6.03 1068.09

180 4.26 // 68.34

179 4.42 // 68.18

C1.7 (C1.7 22.2) 22.0 26.5 (C4.9 26.9) C5.1

C1.1 (C1.1 21.4) 20.5 22.5 (C2.1 22.9) C2.3

F0.8 (F1.5 17.5) 18.0 21.0 (C1.0 21.3) C1.1

C0.6 (C0.5 20.5) 20.0 20.5 (C0.8 20.8) C0.9

C0.8 (C1.0 21.2) 20.7 23.0 (C1.3 21.7) C2.1

~~C2.5~~ C2.5 (C1.9 22.6) 22.6 22.2 (22.6) C2.1

~~C1.5~~ C1.5 (C1.7 22.3) 22.5 22.0 (C1.0 21.3) C1.8

F0.8 F0.9 (F2.0 16.8) 18.0 16.5 (F2.0 16.8) F1.8

F1.5 F1.5 (F1.7 17.3) 17.3 17.0 (F1.7 17.3) F1.6

F2.1 F2.1 (F2.5 15.0) 16.4 15.0 (F2.5 15.0) F2.5

F2.1 F2.0 (F2.5 16) 16.7 16.2 (F2.5 16) F2.3

F1.4 F1.4 (F1.4 17.7) 18.7 17.8 (F1.4 17.7) F1.6

107260

178 4.58 1168.02

177+50 ~~4.11~~ 1167.99

177 4.82 1167.78

⊙ ⊗ 1.02 1070.20 3.41 1069.19  
 176 <sup>on top</sup> 4.62 1165.59

175 } 9.29 1160.82

⊙ 2.41 106293 (9.69) 106052  
 +654 1158.89

174 } 7.62 1155.31

⊙ 2.56 105249 13.00 1049.93

173 } 2.79 1149.70

172 7.73 1144.76

171 9.34 1143.15

170 7.53 1144.96

⊙ 1056 105693 6.12 1046.37  
 169 top 3' Rock 9.43 1147.50

F0.1 (F0.4 19.2) 19.0 19.5 (F0.4 19.2) F0.3

20.8 20.3

C1.4 (C1.3 21.7) 21.5 19.5 (C0.4 20.4) C0.5

C1.9 (C1.9 20.4) 1-1 1-1 20.4 16.0 (F0.4 15.1) C0.6

C2.4 (C2.3 20.8) 1-1 1-1 20.3 20.0 (C1.2 19.7) C2.2

22.0 20.9

C4.5 (C3.8 22.3) 1-1 1-1 21.0 22.0 (C1.5 2.0) C2.0

C0.5 (C0.2 17.8) 1-1 1-1 20.3 21.0 (3.1 17.2) F 2.8

F2.4 (F2.3 16.4) 18.3 19.0 (F2.0 16.8) F2.0

F1.3 (F1.4 17.6) 17.5 18.0 (F1.0 18.3) F1.1

F0.5 (F0.8 18.6) 18.5 18.2 (F1.2 18.0) F1.0

C0.8 (C0.4 20.4) 20.4 16.3 F1.0 17.4 F0.6

929  
 704  
 ---  
 225

10

1046.37

on Rock at 169+

27

25

1344
1130
1.80

1056.93

5.47 1151.46

168  
 1145 1067.00 138 1055.55  
 1254 1068.09  
 167  
 11.34  
 1155.66

super elev. in curve  
 42  
 12  
 54  
 27

166  
 7.14 1159.86

165+50  
 504 1161.96  
 81 Sands  
 m cut

165  
 4.03 1164.06  
 11.90  
 9.80

164+50  
 1.93 1166.16  
 9.21 1075.96  
 124  
 134 1066.75

164  
 BM 1074.72  
 7.70 1168.26

+50  
 5.65 1170.31

163  
 3.9  
 2.2  
 3.97 1171.99

162  
 1.86 1174.10

161+25  
 3.03 1077.34 1.65 1074.31  
 3.13  
 1174.21

161  
 3.40 1173.94

16 F1.6 205 180 (F1.0) F0.8  
 17.4 183

F1.8 (F2.7) F 242 (C2.9) C3.1  
 16.3 23.7

C0.5 (C0.5) 204 250 (C4.1) C4.2  
 20.3 25.1

C0.1 (C0.1) 200 240 (C3.5) C3.8  
 20 24.2

C1.6 (C1.6) 220 253 (C4.4) C4.6  
 22.1 25.6

C1.5 C1.4 21.7 26.3 (C4.9) C5.0  
 21.8 26.3

C0.3 F0.6 206 20.0 23.5 (C3.2) C3.5  
 20.6 23.8

F0.7 (F0.7) 18.5 19.0 (F0.2) F0.1  
 18.7 18.4

F1.2 (F1.3) 17.8 17.5 F1.4 F1.2  
 17.7 16.9

C0.6 (C0.6) 200 190 (C0.0) C0.4  
 20.6 19.7

C2.0 C1.6 22.2 23.0 (C2.0) C2.2  
 22.2 22.7

C2.5 (C2.2) 22.8 22.0 (C1.7) C1.7  
 23.2 22.3

107734

160+60

160 60 1171.34

159 9.30 1168.09

0 2.74 1168.03  
12.05 1165.29 Mail Box

158 3.29 1164.74

157 6.59 1161.44

0 3.88 1160.91

156 2.77 1158.14

155+25 5.25 1155.66

155 6.07 1154.84

154 9.27 1151.64

0 3.32 1155.56  
11.43 1163.67 T.13.11

153 3.79 1151.77

152 6.97 1156.70

0 4.1 1163.26

151 5.38 1163.20

0 12.50 1180.66 0.42 1168.16

50+50 1166.45

C24 (C20 227) 230 210 (C08 20.8) C1.1

C15 (C0.1 21.3) 212 18.3 (F04 19.2) F0.1

C32 C30 24.3 242 220 (F04 19.2) F0.2

C1.1 (C0.9 20.9) 212 18.2 (F0.7 18.7) F0.7

C3.4 C30 24.2 242 20.4 (C0.6 20.6) C0.7

C4.7 (C4.6 26.6) 26.3 21.5 (C1.9 22.5) C2.2

F0.3 (F0.5 19.0) 190 23.5 (C2.4 23.3) C2.5

2 F2.1 (F2.0 16.5) 210 21.0 (19/19.1 2 ftd) F1.7

F2.1 (F1.5 17.5) 210 19.3 F2.5/19.2 2 ftd du F2.5

2 A.0 (F4.0) 230 220 (2 ftd) F2.1

2 F2.5 (F3.7 19.3) 1-1 1 1/2-1 (C1.0 21.2) F2.1 C1.2

no 2-1 slip  
See plane

LAKER  
GRAU  
PHILIPS

MAY 11

1180.66

150			10.96	1169.70
149	3.55	1183.95	0.25	1180.41
		turn up neck & drain	7.64	1176.12
148+50			<del>5.20</del>	1178.76
148			3.17	1180.79
147			.88	1183.08
146	8.08	1191.09	0.95	1183.01
	BM	$\frac{3.75}{87.31}$	6.41	1184.68
145			5.09	1186.00
144			4.31	1186.78
143			3.81	1187.28
142			3.21	1187.88
141			2.41	1188.68
140	8.10	1196.05	$\frac{6.47}{3.14}$	1187.95
				1189.58

13

280	280	1-1	264	Surplan	(08.6)	08.8
	265				22.8	See plan
263	(254)	240	"		(63.8)	240
	239				180	
		240	210		(09)	0
					17.2	
00	002	200	190		0.0	00
	20				11.7	
F13	F15	170	150	Full	(F18)	F14
	170				(17.1)	
208	(206)	205	170		(F16)	F14
	207				(17.4)	
221	(219)	215	193		(202)	206
	226				201	
F10	(F11)	180	180		(F17)	F14
	181				(17.3)	
F08	(F10)	183	160		(F20)	F14
	183				(16.7)	
F05	(F07)	190	170		(F17)	F13
	187				(17.3)	
F14	(F17)	170	164		(F20)	F19
	171				(16.7)	
F26	F24	170	167		(F20)	F19
	163				(16.7)	

119605.

139			5.57	1190.48	203	(C02 20.1)	203	165	(F07 19.3)	F05	17.2
138+50			5.12	1190.93	C10	(C10 21.3)	213	15.0 <sup>F</sup>	(F2.5 16.0)	F23	
138			4.67	1191.38	F08	(F09 18.9)	185	16.0	(F2.7 16.0)	F18	
137			3.77	1192.28	F18	(F2.0 16.8)	170	17.7	(F14 17.7)	F18	
136			2.87	1192.18	F21	(F2.3 16.4)	170	17.0	(F18 16.9)	F15	
135			7.97	1194.08	F10	(F1.0 18.3)	182	16.4	(F2.2 16.6)	F2.0	
134			1.07	1194.98	F14	(F1.5 17.5)	175	16.2	(F2.3 16.3)	F18	
133	4.91	1200.59 379 1196.60	0.57	1195.48	F3	(F1.4 17.7)	180	18.2	(F1.0 18.3)	F06	
132	8.67	1205.53 PM	3.61	1196.78	F16	(F1.4 17.7)	182	19.0	(F0.5 19.0)	F03	
131			7.65	1197.68	F06	(F0.7 18.7)	190	18.4	(F1.0 18.3)	F08	
130			6.52	1198.81	F06	(F1.0 18.3)	185	16.6	(F1.8 17.1)	F15	
129			4.92	1200.41	F01	(00 19.7)	195	16.3	(F2.3 16.5)	F2.1	

33  
12  
270

1205.33

128		3.09	1202.24	F05	(F07 18.7)	182	150	(F25 16.0)	F23		
127		1.26	1204.07	F10	F12 18.0	172	195	(F28 17.2)	F21		
126	9.53	121480	0.06	1205.27							
		$\frac{38.4}{121092}$		8.90	1205.90	F16	(F18 17.1)	172	19.2 <sup>21</sup>	F17 183	F15
125		7.07	1207.73	F17	(F17 17.1)	170	190	(F20 16.5)	F17		
124+30											
124+10		5.42	1209.38	C09	(C08 21.0)						
124		5.24	1209.56								
123		3.41	1211.39	C06	(C06 20.6)	20	180	(F08 18.6)	F05		
122		1.58	1213.22	F03	(F04 19.1)	19	18	(F11 18.1)	F12		
121	11.65	122550	0.95	1213.85							
		10.04	1215.96	F02	F04 19.2	192	174	(F14 17.6)	F12		
120		6.99	1218.51	F01	F02 19.5	190	170	(F15 17.5)	F12		
119		3.53	1221.97	C20	C17 22.3	21.5	17.5	(F14 17.7)	F07		
118	7.36	1232.11	0.75	1224.75							
		6.68	1225.93	C22	C19 22.6	22.2	19.0	F04 19.1	F02		

~~20.3~~ F

Surplus

C06  
26.2  
3. back

Sta	BS	HI 123211	FS	Elev
117			4.75	1227.36
116			4.35	1227.76
115			3.72	1228.39
114			1.70	1230.41
⊙	11.66	1242.84	0.93	1231.18
113	BM	1206.69	10.18	1232.66
112			7.93	1234.91
111			5.68	1237.16
110			3.43	1239.41
109			1.18	1241.66
⊙	11.51	1253.79	0.56	1242.28
108			9.88	1243.91
107			7.63	1246.16

F03	(F03 19.3)	19.4	20.2	(C05 20.5)	C06
F2.5	(F2.3 16.0)	16.2	16.0	(F2.2 16.5)	F2.3
F1.5	(F1.6 17.4)	17.3	16.0	(F2.5 16.0)	F2.4
F1.0	(F1.3 17.8)	17.7	18.5	(F0.4 19.2)	F0.3
C08	(C07 20.8)	20.5	20.2	(C07 20.8)	C07
F01	(F04 19.2)	19.2	19.6	(C07 19.7)	C0.4
F1.5	(F1.6 17.4)	17.5	17.6	(F1.0 18.3)	F0.9
F1.5	(F1.7 17.3)	17.5	16.5	(F2.2 16.5)	F1.5
F1.4	(F1.7 17.2)	17.0	18.5	(F0.5 19.0)	F0.4
F0.9	(F1.0 16.3)	18.2	19.0	(F0.4 19.1)	F0.2
C0.9	(C0.6 20.7)	20.5	20.5	(C1.0 21.2)	C1.1

125379

106 5.38 1248.41

105 2.58 1251.21

1254 1266.5  
0.18 1253.61104 7/16 large K. h  
S. P School Dur 11 23 255.12

103 6.57 1259.58

102 4.58 1270.39  
4.07  
1266.32 2.11 1269.09  
0.34 1265.81

101 2.72 1267.67

+75 2.64 1267.75

100 4.89 1265.50

99+70 6.54 1263.85

+25 9.02 1261.37

0.13 1257.60 12.92 1257.47

99 5.55 1263.42 10.19 1260.00

98 0.01 1257.48

2.98 1254.50

C1.3 (C1.2 21.6) 20.8 \* 17.5 (F1.4 17.7) F1.2

F0.5 (F0.5 19.0) 18.7 16.6 (F1.9 16.9) F2.0

F0.2 (F0.5 19.0) 18.5 18.0 (F1.0 18.3) F1.0

F0.3 (F0.4 19.2) 20.3 20.9 (C0.0 19.8) C0.1

F0.6 (F1.0 18.3) 18.0 19.0 (F0.3 19.3) F0.1

F0.1 (C0.2 20) 19.0 19.8 (C0.1 19.9) C0.2

C0.3 (C0.1 19.9) 19.7 19.0 (C0.1 19.9) C0.2

C2.8 (C2.5 23.5) 23.0 18.5 (F0.3 19.3) F0.1

C3.6 (C3.5 25.9) 25.2 19.5 (C0.2 20) C0.3

C1.2 (C1.0 21.3) 22.0 21.0 (C0.6 20.7) C0.5

C3.0 C3.0 24.3 21.0 C0.9

C2.9 (C2.8 23.9) 24.0 15.4 F (C1.1 18.1) C0.4

125748

97		8.48	1249.00		
○	0.16	1244.96	12.68	1244.80	
96		.65	1244.31		
95		3.71	1241.25		
94		5.96	1239.00		
93		8.21	1236.75		
92		10.30	1234.69		
○	0.12	1235.99	9.18	1235.78	
91		1235.45			
		1220.55			
	Count	1235.94	2.90	1233.00	
90		4.40	1231.50		
89		5.94	1230.00		
88		7.52	1228.42		
○	0.23	1228.26	7.87	1228.03	
87		2.01	1226.25		
86		4.84	1223.42		

18

<1.1	( $\frac{2.11}{21.4}$ )	21.5	18.7	( $\frac{F_{1.0}}{18.3}$ )	F <sub>0.7</sub>
F <sub>0.3</sub>	( $\frac{F_{0.3}}{19.3}$ )	19.5	18.5	( $\frac{F_{0.7}}{18.7}$ )	F <sub>0.5</sub>
F <sub>0.3</sub>	( $\frac{F_{0.7}}{18.7}$ )	20.3	18.8	( $\frac{F_{0.3}}{19.3}$ )	F <sub>0.2</sub>
F <sub>1.2</sub>	( $\frac{F_{1.2}}{18.0}$ )	17.7	17.7	( $\frac{F_{0.9}}{18.4}$ )	F <sub>0.7</sub>
F <sub>1.3</sub>	( $\frac{F_{1.4}}{17.7}$ )	17.3	19.0	( $\frac{F_{0.3}}{19.3}$ )	(C <sub>0.2</sub> )
F <sub>0.6</sub>	( $\frac{F_{0.6}}{18.9}$ )	18.5	20.0	( $\frac{C_{0.3}}{20.2}$ )	C <sub>0.6</sub>
F <sub>0.5</sub>	( $\frac{F_{0.5}}{19.0}$ )	19.0	18.7	( $\frac{F_{0.5}}{19.0}$ )	F <sub>0.3</sub>
F <sub>0.8</sub>	( $\frac{F_{0.8}}{18.6}$ )	18.7	18.7	( $\frac{F_{0.4}}{19.1}$ )	0.0
C <sub>0.3</sub>	( $\frac{C_{0.2}}{20.1}$ )	20.3	18.0	( $\frac{F_{1.1}}{18.1}$ )	F <sub>0.8</sub>
F <sub>0.3</sub>	( $\frac{F_{0.5}}{19.0}$ )	19.4	18.0	( $\frac{F_{1.1}}{18.1}$ )	F <sub>1.0</sub>
C <sub>0.5</sub>	( $\frac{C_{0.4}}{20.4}$ )	20.0	19.7	( $\frac{C_{0.4}}{20.4}$ )	C <sub>0.6</sub>
C <sub>0.6</sub>	( $\frac{C_{0.5}}{19.0}$ )	20.4	19.7	( $\frac{C_{0.6}}{20.7}$ )	C <sub>0.9</sub>

67  
97  
20

1228.26

85 8.05 1220.21

84 10.12/1218.14

83 0.67 1217.23 11.70 1216.56  
0.35  
1216.87 0.95/1216.28

82 1217.23 2.81/1214.42

81 4.67/1212.56

80+30

80 See Plan 6.67/1210.56

79 9.47/1207.76

78 7.83 1215.45 9.61 1207.62

78 8.80/1206.65

77 8.01/1207.44

76 5.77/1209.68

75 3.52/1211.93

OBM

2.01

1.10 1214.35

1216.33

1214.32 cm

613  
47

637  
167  
17

C04 (C02/200) 20.0 19.4 (F02/19.6) C0.1

F04 (F04/19.2) 19.0 21.0 (F03/19.3) F0.1

C14 (C14/21.9) 21.5 21.0 (C04/20.4) C0.5

F03 (F02/19.6) 21.0 21.0 (C03/20.3) C0.4

F12 F16/17.4 17.0 23.0 (F19/17.1) F1.6

19.0 20.0

F12 (F13/17.9) See Plan (F25/19.4) (special) F2.6

F21 (F21/16.6) 16.5 20.5 (F20/19.9) (special) F2.0

F14 F27/16.5 16.0 17.0 (F1.6/17.4) F1.6

C12 C09/21.1 20.1 18.0 (F1.4/17.7) F1.4

C26 C25/18.5 18.0 17.4 F14/17.7 See Plan F1.1

C35 C35/25.0 24.5 20.0 C02/20.0 C0.4

121633

74		3.33/213.00
73		3.87/212.46
72		4.66/211.67
71		4.21/212.12
70		3.55/212.78
69		2.89/213.44
68		2.23/214.10
⊖ 2.47	1216.88	1.92 1214.48
67		2.25/214.63
66		2.52/214.36
65		2.92/213.96
64		3.32/213.56
63		3.84/213.04

20

e

C04	(C04 20.4)	20.5	20.5	C02 20.0	C07
F12	(F12)	17.3	17.0	(F17 17.2)	F18
F15	( <sup>21</sup> F27 16.6)	17.5	16.5	(F21 16.6)	F21
00	(0.0 19.7)	19.4	19.5	(0.0 19.7)	C02
F01	00 19.7	19.7	19.0	(F02 19.5)	F02
F07	(F07 18.7)	18.5	19.0	(F06 18.9)	F06
F04	(F05 19.2)	19.0	19.5	(F02 19.5)	F01
F11	F13 17.8	18.0	17.4	(F15 17.5)	F14
F07	F10 18.3	18.2	18.4	(F16 17.4)	F15
F09	F10 18.3	18.2	17.6	(F17 17.2)	F16
F07	F07 18.7	19.0	17.4	(F17 17.2)	F16
F03	F05 19.0	19.5	18.0	(F10 18.3)	F10

12/688

62		5.17	1211.71
TBM	spoke in the Press	3.30	1213.58
	0.0	1213.58	
61+75		2.34	1211.24
61		4.14	1209.44
60		7.22	1206.36
BH		6.80	120.678 ✓
59		9.57	1204.01
○	2.26	1204.76	11.08 1202.50
58		2.25	<del>11.08</del> 1202.51
57		3.75	1201.01
56		4.20	1200.56
55		2.55	1202.21
○	5.96	121032	0.40 1204.35
54		5.41	1204.91
53		2.71	1207.61
52+50		2.11	1208.21
PM		3.10	1207.20

21

C14	(C12 215)	215	200	(C04 204)	C06
		217	185		
C17	(C19 226)	225	197	(C01 197)	C03
C14	(C13 217)	215	190	(F04 192)	F01
F03	(F03 193)	190	180	(F13 178)	F12
F19	(F19 169)	174	170	(F17 171)	F17
F16	(F16 174)	170	172	(F14 177)	F15
F10	(F10 183)	180	170	(F15 175)	F12
C12	(C11 214)	202	180	(F11 181)	F07
C04	(C03 203)	200	185	(F07 187)	F06
C05	(C05 205)	192	195	(F02 195)	F01
C02	(C01 199)	20	200	(C01 19)	C02

1210.62

52 3.02 1207.30

51 6.34 1203.98

50 9.66 1200.66

0 0.09 1197.64 (12.77) 1197.55

49 .30 ~~1.98~~ 1197.34

48 3.42 1194.22

47 6.14 1191.50

46 8.66 1188.98

0 126 1187.32 11.58 1186.06

45 17.18 1186.46

44 ~~3.38~~ 1183.94

43 5.97 1181.35

42 8.70 1178.62

41 11.57 1175.75

0 4.95 1174.33 12.94 1174.38 DM

40 0.52 ~~1.78~~ 1172.74 1178.14

565  
60

565

005

22

F04 (F05  
190) 190 210 (C10  
213) (C11

F10 (F07  
187) 185 207 (C06  
207) (C08)

00 (00  
197) 192 200 (C04  
203) C05

F18 (F24  
16.1) 160 202 C05  
205 C08

F13 (F13  
17.8) 180 190 (00  
197) C02

F13 (F14  
17.7) 180 180 (F08  
18.6) F06

F10 F11  
181 180 190 (F05  
190) F06

F02 (F03  
193) 19.2 21.4 (C12  
21.6) C14

F04 F06  
18.9 19.5 20.6 (C07  
20.6) C09

C02 (00  
197) 19.5 20.0 (C03  
20.2) C05

C11 C09  
21.1 20.5 20.5 (C07  
20.7) C08

C12 C09  
21.1 21.2 21.2 (C09  
21.1) C12

C03 (C02  
20) 200 190 C02  
20 C03

1174.91

0	2.50	1168.28	913	1165.78
39			5.32	1169.59
38			<del>1.98</del> 1.98	1166.30
37			5.34	1162.94
36			7.36	1160.92
35			9.32	1158.96
34			9.94	1158.34
OBM			928	1159.00
33	1.28	1160.39		1157.72
32			4.88	1155.51
31			8.68	1151.71
BM	0.18	1159.29		1159.11
30	0.03 0.79	1147.92 1148.18	1149.01 1147.39 +0.51 -0.27	1147.91
29			3.88	1144.30
28			6.32	1141.86

29

F0.7	F0.9 18.4	18.2	18.7	(F0.5 19.0)	F0.2
F0.1	(F0.2 19.5)	19.5	21.5	(C1.2 21.7)	C1.3
C0.2	(0.0)	20.0	23.7	(C2.4 23.4)	C2.6
F1.8	(F1.7 17.3)	18.5	22.0	(F0.3 19.3)	C0.1
F2.0	(F2.0 16.8)	17.0	17.0	(F1.4 17.7)	F1.4
F2.1	F2.1 16.6	16.2	16.3	(F2.1 16.5)	F1.9
F1.9	F2.0 16.7	16.5	21.2	(C1.9 22.6)	C2.1
C0.2	C0.2 20	20.0	24.5	(C3.4 24.8)	C3.6
F0.9	(F1.0 18.3)	18.2	22.4	(C2.1 22.9)	C2.2
F0.1	(F0.3 19.3)	19.5	17.0	(F1.6 17.4)	F1.5
F1.5	(F1.5 17.5)	17.5	18.0	(F1.0 18.3)	F0.9
F1.0	(F1.0 18.3)	18.0	15.0	(F2.3 16.3)	F1.6

$\frac{109.18}{6.3}$   
 $\frac{1143.05}{0.1}$   
 47.8  
 $\frac{60.3}{0.1}$

B.M.		114815	6.13	1142.00
27		114757	8.13	1139.44
26	1221 6.99	1136.25	12.31 1.64	1135.26 1134.61
25			6.26	1129.99
24			8.64	1127.61
23			9.83	1126.42
22	5.76	1132.06	8.95	1127.30
B.M.			6.24	1126.85
21	279	1083.02	279	1080.27 1080.27
20			4.97	1128.09
19			3.09	1129.33
18			2.45	1130.57
17	5.25	1037.57	1.21	1131.81
			0.70	1032.32
			4.52	1133.05
16+50			3.90	1133.67

C02	03 18	See plan	008	at 20'
F11	(F14 17.6)	180	150	(F30 17.) F22
F20	(F22 16.5)	160	170	(F17 17.9) F10
F11	(F19 16.9)	165	18.7	(F15 17.5) F12
F25	(F20 16.8)	170	140	(F23 14.2) <i>no number</i>
F13	(F15 17.5)	175	212	(21.3 21.7) C15
C07	(C03 20.2)	20	21.0	(C12 21.2) C13
F03	(F03 19.3)	185	192	(00 19.7) C02
F16	(F15 17.5)	170	180	(F10 18.3) F08
F13	F14 17.4	17.4	200	(C01 19.9) C04
C04	C02 20.0	200	220	(C21 22.9) C23

1137.51

16 3.22/1134.29

15 2.60/1134.91

14 3.22/1134.29

13 4.46/1133.05

12 5.62/1131.89

0 5.18 1135.86 (6.82)/1130.68

11 4.58/1131.28

10 4.35/1131.31

9 3.88/1131.98

8 2.68/1133.20

0 3.90 1139.42 0.34 1135.52

7 5.05/1134.37

6 4.12/1135.30

5 3.32/1136.10

F04 (F05/190) 190 21.5 (C13/217) C15

F17 (F16/174) 172 21.4 (C12/216) C13

F17 (F18/171) 172 20.0 (C07/20.7) C08

F10 (F10/175) 180 20.0 (C03/20.3) C09

F12 (F12/180) 180 21.0 (C09/21.1) C10

F22 (F21/166) 165 18.0 (F0.8/18.6) F0.8

F21 (F23/164) 165 17.2 (F16/17.4) F19

F12 (F14/17.7) 180 20.0 (C05/20.5) C06

F05 (F06/189) 190 22.5 (C21/22.9) C21

F10 F10/18.3 18.3 21.0 (C10/21.3) C12

F15 (F16/174) 178 17.5 (F08/18.6) F0.8

F21 F19/169 170 18.0 (F10/18.3) F0.8

1139.42

4 2.54 / 1136.90

0 444 1141.17 2.74 / 1136.68

3 3.47 / 1137.70

2 3.18 / 1137.99

BM 1475 3.61 / 1137.56  
402 / 1137.15

1 5.92 / 1135.25

0 1.39 1134.83 ~~7.75~~ / 1133.44

0 ~~9.77~~ / 1132.00  
2.83

F1.7 (F1.6 / 17.4) 17.2 19.0 1-1 C1.0  
C0.7 / 19.2

F1.1 (F1.1 / 18.1) 18.0 20.1 1-1 C2.3  
C2.5

F1.6 (F1.6 / 17.4) 17.2 20.0 1-1 C1.7  
C1.4 / 19.9

F0.7 F0.9 18.2 20.5 C2.0 / 20.5 C1.4  
18.4

C0.8 (1-1 / 19.7) 19.2 20.1 C2.6 / 21.1 C3.0

C0.9 1-1 C0.6 / 19.1 19.0 20.0 C1.5 / 20.0 C1.7



MAY-16. 1922 FORM STAKES  
LACKEY  
GRU  
PHILIPS

109 1085.84

1084.75

Spike side  
of Apple

260 +50

6.12 1079.72

260

7.04 1078.80

259 +50

7.96 1077.88

259

8.88 1076.96

+75

258 +50

9.75 1076.09

+25

258

10.53 1075.31

+75

1.77

1077.08

~~1053~~

~~1075.31~~

7 +50

2.46 1074.62

+25

1074.30

257

3.06 1074.02

+50

3.61 1073.47

+25

256

4.06 1073.02

+75

+50

4.28 1072.80

255

4.41 1072.67

107708

254+50

4.53 1072.55

254

4.66 1072.42

+50

4.78 1072.30

⊙

3.69 1075.99

4.78 1072.30

253

3.82 1072.17

B.M.  
+75

2.45 1072.54

+50

3.90 1072.09

+25

252

3.91 1072.08

+75

+50

3.83 1072.16

+25

251

3.67 1072.32

+50

3.47 1072.52

• 250

3.27 1072.72

+75

+50

2.90 1073.09

+25

249

2.19 1073.80

⊙

6.56

108038

(2.19)

1073.80

$$\begin{array}{r} 48 + 69.60 \\ 246 + 77.95 \\ 1 \quad 916.5 \end{array}$$

PT

108038

+69.60		554 107484 ✓
+75		
-50		
+25		
248		4.16 107622
+50		2.61 107777
+25		
247		1.38 1079.00
+77.95		
+75		
246+50		1.78 107860
+25		
246		3.64 107674
+50		5.31 107507
245 ✓		6.31 107407
○	5.30 1079.01	6.67 1073.71
44+50		6529 107372
244		4.97 107404
243		4.32 107469
+50		
243		3.67 1075.34
+50		3.02 1075.99

~~1074.00~~

78.60

$$\begin{array}{r} 78.60 \\ 76.74 \\ \hline 1.86 \end{array}$$

$$\begin{array}{r} 2.54 \\ 1.86 \\ \hline 4.40 \\ 1.67 \\ \hline 6.07 \end{array}$$

$$\begin{array}{r} 77.77 \\ 1076.22 \\ \hline 1.55 \end{array}$$

$$\begin{array}{r} 76.74 \\ 75.07 \\ \hline 1.67 \end{array}$$

$$\begin{array}{r} 79.00 \\ 77.77 \\ \hline 1.23 \end{array}$$

+69.60	57'-29"
+50	54'-30"
248	47'-03"
+50	39'-33"
247	32'-03"
+50	24'-33"
246	17'-03"
+50	4'-03"
245	2'-03"

$$\begin{array}{r} 51.2 \\ 15.2 \\ \hline 36.0 \\ 12.2 \\ \hline 23.8 \end{array}$$

X

PC = 44 + 86.27

N.W. COR of E HWALL OF PIPE  
PC

MAY 17, 1922  
 HARKNEY  
 GRASS  
 PHILLIPS  
 107901

242 2371076.64

+50 1.721077.29

241 1.071077.94  
 0 6.94 108488 107 1077.94

BM  
 +50 6.29 107859  
 453 108035

240 5.641079.24

+50 4.99 1079.89

239 4.39 1080.54

+50 3.69 1081.19

238 3.13 1081.75

+50 2.76 1082.12

237 2.49 1082.39  
 0 5.22 1087.61 2.49 (1082.39) 87.49

+50 4.94 1082.67

236 4.67 1082.94

1077.94  
 694  
 108 0.828  
 624  
 7854

17  
 8239  
 .24

97.5  
 4.47  
 0.48  
 1.2  
 460  
 418  
 4.30

503  
 28  
 4.75  
 4.98  
 30  
 418

1080.41

1080.41  
 3.88  
 1084.29

1084.29

3.75  
 1.2  
 2.87  
 3.10

308  
 1.2  
 320

2.54

3.58  
 3.60

2.17

2.12  
 1.1  
 2.24

1.90

1.82  
 1.12  
 1.95

4.82

195

~~87.49~~

8234  
 875  
 8749

108761

235+50 4.37/108324 8749  
 235 4.07/108358 3.91  
 +50 3.64/108397 3.52  
 234 (VOTPI) 3.22/108439 3.10  
 +50 2.74/108487 2.62  
 +00.25 PT 6.47 1089.20 438 108323  
 233 MAY 18, 1922 4.32 1085.98 2.11  
 (232+75) GRAO PHILLIPS 3.87 108583 1.83  
 232+50 3.76 108594 1.50  
 232+25 3.53 108617 6.63  
 232+0 3.16 108654 6.26  
 231+75 2.85 1086.85 92.35  
 231+50 2.53/1087.17 5.18  
 231+25 2.22 108748 489

4.25  
 384 396  
 344 356  
 205 201  
 173 1.52  
 195 145  
 650 629  
 620 599  
 589  
 513 492 482 461

3.44  
 3.42  
 302  
 314  
 254  
 2.66  
 52.517  
 86.57  
 5.41  
 234+50  
 87.49  
 86.24  
 6.56  
 92.80  
 1.73  
 2.25  
 1.45  
 1.45  
 1.24  
 92.80  
 86.17  
 23  
 92.80  
 86.34  
 6.26  
 6.31  
 5.64  
 5.36

108770

231		1.91	108779	9235	456	450
○	624	1094.03	<del>191</del> 1087.79			429
230+75		5.93	1088.00	<del>425</del>	424	398
230+50		5.61	1088.42	3.93	387	366
230+25		5.30	1088.73	3.62	356	335
230+0		4.99	1089.04	3.31	325	304
229+75		4.68	1089.35	3.00	294	273
+50		4.36	1089.67	2.68	262	241
+25		4.05	1089.98	2.37	231	219
229		3.74	1090.29	2.06	200	179
+75		3.43	1090.60	1.75	167	148
+50		3.11	1090.92	1.43	137	111
+25		2.80	1091.23	1.12	106	85
○		<del>0.26</del>				

9235  
624  
1087

91. 24  
624  
1087

109403

+09.20 ΔPI

229

+75

+50

+25

228

⊙

+75

-+50

+25

227 V. PT

+75

+50

+25

↑  
1.25  
1.52  
1.31

7.47

1098.98

2.49 1091.54 6.28

(249) 1091.54

7.13 1091.85 5.97

6.81 1092.17 5.65

6.50 1092.48 ~~5.50~~

6.19 1092.79 5.63

5.86 1093.12 4.90

5.46 1093.52 4.30

4.96 1094.02 ~~4.96~~  
3.80HI  
9782

622 6.01

5.91 5.70

5.59 5.38

5.28 5.07

4.97 4.76

4.64 4.23

4.24 4.03

3.74 3.53

PC

225 + 16.92

+25 2'-25"

+50 9'-55"

+75 17'-25"

226 24 53

+25 32'-25"

+50 39'-55"

+75 47'-25"

227 54'-55"

+25 102'-25"

+50 109'-55"

+75 10-17'-25"

228 10-24'-55"

+25 10-32'-25"

+50 10-39'-55"

+75 10-47'-25"

229 1-54'-55"

+25 2-102'-25"

+50 2-09'-55"

+75 2-17'-25"

230 2-24'-55"

+25 2-32'-25"

+50 2-39'-55"

+75 2-47'-25"

231 2-54'-55"

1091.98

226 0 4.55 1094.43

1094.04

+75 3.95 1095.03

+66.22 End of run

+50 \* 3.44 1095.54

-27+10

+25 \* 2.82 1096.16

.19 +07

0 (283) 1096.15

+16.92 P.C.

225 P.C. vert

BM +6.12

1096.84 .11 = -01

297 1096.01 1096.12

930

224 +50 1098.24 1104.42

224 1099.64

778

+50

B

1101.04

+25

N

1101.82

PT

223 0 1102.52

190

+75 0 1103.45

1102.52

1253

117505

+50 1104.55

+25

M

1105.70

PL

222 0 1107.12

L

I

m B m  
174

97.82  
97.82 BM

97.82

3.39 3.33  
2.12

2.79 2.73  
3.52

2.28 2.22  
2.07

1.66 1.60  
1.58

0.98 97.82  
92  
HI 96.94

5.18

4.78

3.38

1.90

10.50

7.93

96.12  
17.4  
97.86  
96.94

1096.12  
5.10  
1102.42

1104.42  
96.84

1104.42  
96.24  
7.54

1104.42  
96.18

1104.42

1104.42

1104.42

111505

~~111505~~

+50

5.28 1109.77

221

0

12.60 1225.01

2.63 1112.42

2.64 1112.41

+50

9.94 1115.07

220

7.29 1117.72

+50

4.64 1120.37

219

0

12.93

1135.95

1.99 1123.02

1.99 1123.02

+50

0

10.28 1125.67

10.28

218

5

7.63 1128.32

+50

1

4.98 1130.97

217 PT

2.33 1133.62

+70

1134.92

+50

TP 5.52

1141.31

0.16 1135.80

17.1 1135.79

2.10

1141.74

1139.60

1139.64

+25

0

1136.53

216

4.71 1137.03

+75

+0.4%

.46 1137.28

2.10

114174  
580  
594

114174

215+50	+0.4%	PT	4.4	113730
+25				1137.26
215	0		4.38	113736
+75				113759
+50		PL	3.79	1137.95
214	17		2.94	113880
+50	1		2.09	1139.65
				114009
213	PT		1.24	1140.50
+75				1140.87
+50			61	1141.13
+25				1141.28
212	△	TP	42	114132
+75	126	1142.58	0.26	1141.26
+50			1.50	1141.08
+25				114080
211	PL	*	2.18	1140.40
+50			3.08	1139.50
210	8/1		3.98	113860
+50			4.88	113770

POC 211+10

211+25 0' 9"  
 +50 0°-24'  
 +75 0°-39'  
 212 0' 54"

PT =  
 212+188  
 $\Delta = 4^\circ - 21' L$   
 2°  
 L = 2175

+25 1°-09'  
 +50 1°-24'  
 +75 1°-39'  
 213 1°-54'  
 +25 2°-09'  
 total 2°-10'-30"  
 PT = 213+275

EX 207

1142.5Y

209 8%  
+ 1.8  
5.78 1136.80

+50 PTX 6.68 1135.90

+25 1135.58

208 7.33 1135.25

+75 1135.13

+50 PTX 7.46 1135.12

207 7.35 1135.23

+50 7.24 1135.34

+25 PT ~~7.18~~ 1135.40

206 7.25 1135.33

+750 1134.99

+500 8.19 1134.39

(8.19) 1134.39

+25 TPC 1138.29 1133.52

205 5.77 1132.52 1132.52

1134.78  
3.51  
1138.29  
3.88  
1134.41

5.72  
3.85  
1.87

1140.54

1138.29

+50	PT	7.77	1130.52	113090
+25			1129.69	
209		8.99	1129.30	1130.07
+75			1129.24	
+50	PC+PT	8.67	1129.62	1130.00
	N. TP 47 37.96	8.80	29.49	
203	PT	7.29	1130.72	103072
+75			1131.31	
+50		6.10	1131.86	<del>1130.07</del>
+25			1132.76	
202		4.89	1133.07	1132.92
+75			1133.70	
+50		3.59	1134.37	
+25			1135.04	
201	PC	2.22	1135.74	
+50	N. TP 796 43.71	2.21	1137.15	
		2.56	35.75	
200		9.45	1138.56	
+50		3.74	1139.97	
199		2.33	1141.38	
+50		.92	1142.79	42.67
198	TP 9.59 52.26	0.94	1144.20	
		8.06		
+50		6.65	1145.61	
197		5.24	1147.02	
+90	P.T		1147.30	

18.47

29.49  
 8.47  
 37.96  
 29.62  
 134

in S end of E Head road of pipe.

6.1  
 5.24  
 2.8

82  
N:

5236

Round  
Rds  
+ a)

196+75

1

7.58 1147.68

+50

+40A

4.09 1148.17 1148.71

+25

1148.32

196

b  
+90  
OPC

3.73 1148.49

+90

1148.44

337  
234

42.67

9.50

52.17

91

51.36

0.91

+50

X

4.00 1148.26 ✓

TP 3.74

5.204  
81.99

4.01 48.25 46.35

195 +PT

3.98 1148.01 ✓

+75

47.90

+50

4.16 1147.83 ✓

+25

47.79

194

X

4.20 1147.79 ✓

+75

47.83

+50

4.09 1147.90

+25

46.01

193 Δ

3.84 1148.15 1147.01

+75

1148.34

+50

3.45 1148.54

+25

1148.79

192

1

2.92 1149.07 LTP

3.56 m S.E. Cor of S.) head wall

+75

1149.46

48.93

+50

1149.75

+25

1150.14

191

PC +PT

1150.57

190 + 75 = 1151.04  
 + 50 Δ 1151.81 1151.46  
 + 25 1152.63  
 190 PC 1153.76  
 + 50 1156.06  
 189 0 1158.36  
 + 50 N PT 1160.66  
 + 25 1161.78  
 188 1162.85  
 + 75 1163.77  
 + 50 Δ 1164.81 1165.26  
 + 25 1166.25  
 187 1166.55  
 + 75 1167.33  
 + 50 PC 1168.06  
 186 1169.46  
 + 75  
 + 50  
 + 25 1170.66 ✓  
 185 1171.11  
 1171.46

6570 NI  
 197 + 50  
 36  
 1165.34  
 697  
 1172.31

+75 <sup>-28</sup>  
 +50  $\Delta$   
 +25  
 184  
 +75  $\times 20$   
 183+50~~4~~  
 +25  
 183. +  
 +50 PT  
 +25  
 182  $\Delta$   
 +75  
 181+50 PC  
~~+25~~  
 181  
 +50  
 180  
 +50  $\times 16$

1171.71  
 1171.86  
 1171.91  
 1171.86 X  
 1171.71  
 1171.46  
 1171.11  
 1170.66  
 1169.66  
 1168.89  
 1168.58  
 1168.50  
 1168.42  
 1168.34  
 1168.26

117232 / HI  
 7159  
 399  
 7588  
 725  
 6853  
 376  
 7209

6830  
 +36  
 7269

ME  
 on  
 head  
 will

183+46.79 PC  
 185+26+79 PT=  
 10  
 1-48R

183+50 58'  
 +75 80-28'  
 184+0 150-58  
 +25 230-28  
 +50 30-58  
 +75 38-28  
 185 45.58  
 +25 53-28  
 +2679 54-0'  
 2  
 10810  
 1248



42.69 m 2 pumpjet  
323  
42.92 HI

171+50 1143.46

171 43.15

+50 43.81

170 44.96

+50 46.11

169 47.50

⊙ 11.55 58.93 0.54 47.38

+50 9.69 49.36

168 7.59 51.46

+50 5.27 53.56

167 3.27 55.66

+50 1.17 57.76

⊙ 11.66 1169.30 12.9 57.64

166 59.86

+50 66.96

6930

165		424	1164.06
+50			66.16
164	9.68	76.26	(272) 66.58
			68.76
+50			70.31
163			71.99
+50	lowered .15 on inside for more off		73.27
162			74.10
<del>+27</del> PL			74.34
161+50	1178.41 NE		1174.34
161+0			1173.94
160+50			1172.91
160+0			1171.34
159+50			1169.69

74.73  
1.42  
76.54

4°

 $\Delta = 13^\circ - 20' L$ 

PF = 164 + 55.15

PC = 162 + 87.73

PT = 166 + 21.06

L = 330.33

162 + 87.73

163 14.43

+25 14.43

+50 1-14.43

+75 144.43

164 214.43

+25 244.43

+50 314.43

+75 344.43

165 414.43

+25 444.43

+50 514.43

+75 544.43

166 614.43

+21.06

7-42-00

13° 20' L

HI  
1178.41

159 1168.04

158+50 0.12 1166.39 (214) 1166.39  
0 1166.27

158 1164.74

157+50 1163.09

157+0 1161.44

156+50 1159.79

156 1158.14

557+50 0.70 57.27 10.02 1156.49  
52.37

155 1154.84

154+50 1153.19

154 1151.64

153+50 1151.09

TBM 7.23 1150.11 Blue on  
1150.04 Pt. Plan,

9.21-22 Hoop  
10.7 Gray  
Fair

46

B.M. 112 1131 35 1130.23

20+50  $\frac{2.64}{2.68}$  28.71

21  $\frac{3.26}{3.30}$  28.09

+50  $\frac{3.88}{3.92}$  27.47

22  $\frac{4.50}{4.54}$  26.85

+50  $\frac{4.92}{4.96}$  26.43

23  $\frac{4.93}{4.97}$  26.42

+50  $\frac{1.54}{1.58}$  26.81

24  $\frac{3.74}{3.78}$  27.61

+50  $\frac{3.74}{3.78}$  28.61

25  $\frac{11.36}{1.40}$  28.99

T.P. 11.80 1141 75 1.40 1129.95

+50  $\frac{9.68}{9.68}$  32.11

26 (Low) 7.21  $\frac{7.13}{7.17}$  34.61

±P.C. (Low) 5.73  $\frac{5.86}{5.90}$  35.89

B.M. 1.41 40.33 1140.34

+50 (Low) 4.75  $\frac{4.64}{4.68}$  37.11

B.M. 3.92 1134 15 1130.23

20  $\frac{4.82}{4.86}$  29.33

+50  $\frac{4.20}{4.24}$  29.95

19  $\frac{1.58}{1.62}$  30.57

+50  $\frac{2.88}{3.00}$  31.19

18  $\frac{2.34}{2.38}$  31.81

+50  $\frac{1.72}{1.76}$  32.43

17  $\frac{1.10}{1.14}$  33.05

T.P. 4.81 1137 88 11A 1133.01

37.88  
 21.05  
 4.83  
 4.87

153 1151.77  
 152+50 1153.67  
 152 1156.70  
 151+50 1159.95  
 151+0 1163.20  
 150+50 1166.45  
 150 1169.70  
 149+50 1172.95  
 149 1176.12  
 148+50 1178.76  
 148 1180.79  
 147+50 1182.20

1137 88

+50 4.21  
 16 4.25 33.67  
 +50 3.59 34.29  
 15 3.00 34.75  
 +50 2.97 34.91  
 14 3.13 34.75  
 +50 3.52 34.29  
 13 3.20 33.67  
 +50 4.21 33.05  
 12 3.07 32.43  
 F.P. 3.65 1135 50 3.03 31.89  
 +50 3.99 1131.85  
 10 4.03 31.51  
 +50 4.22 31.28  
 Temp. S. M. 4.26 31.22  
 F. P. Colly. 4.32 1131.25  
 9 4.25 31.31  
 +50 4.67 31.57  
 8 4.23 31.97  
 +50 3.93 32.55  
 7 3.87 33.20  
 +50 3.32 33.82  
 6 3.56 34.37  
 +50 2.99 34.87  
 5 2.88  
 +50 2.34  
 4 1.68  
 +50 1.97  
 3 1.63  
 +50 0.63  
 2 0.24

dist 74's  
 distance

(0.620)

147 1183.08  
 146 +50 1183.88  
 146 1184.68  
 +50 1185.41  
 145 1186.00  
 +50 1186.46  
 144 1186.78  
 +50 1187.03  
 143 1187.28  
 +50 1187.56  
 142 1187  
 +50  
 141

B.M. 421 1141.39 1137.18  
 0 ✓ 9.37 32.00  
 +50 ✓ 7.26 33.63  
 1 ✓ 6.14 35.25  
 +50 ✓ 4.51 36.88  
 2 ✓ 3.49 37.99  
 +50 ✓ 3.28 38.10  
 3 ✓ 3.82 37.70  
 +50 ✓ 4.07 37.30  
 4 ✓ 4.11 36.90  
 +50 ✓ 4.53 36.50  
 5 ✓ 5.29 36.10  
 +50 ✓ 5.33 35.70  
 6 ✓ 5.67 35.30  
 +50 ✓ 6.09 34.87  
 ✓ 6.52  
 ✓ 9.58  
 End

140+50

140

139+50

139

+50

138

+50

137

+50

136

+50

135

+50

134

+50

133

+50

132

+50

131

+50

130

+50

129

+50

128

+50

127

+50

126

+50

125

+50

124

+50

123

+50

122

+50

121

+50

120

+50

119

+50

118

+50

117

+50

116

+50

121

120

119

118

117

116

115

114

113

112

111

110

109

115

+50

114

+50

113

+50

112

+50

111

+50

110

+50

109

+50

108

+50

107

+50

106

+50

105

+50

104

+50

103

1187.55 B Mon  
 2.33 Lowest  
 1189.68 HI  
 10.07 FS  
~~1177.55~~  
 1178.61  
 3.27  
 1182.58 HI  
 1.45  
 71.43 elm  
 1.11  
 1172.54  
 12.64  
 1159.45  
 8.54  
 1160.39  
 8.02  
 1152.31

stakes set out 15.5-2 ft East ditch

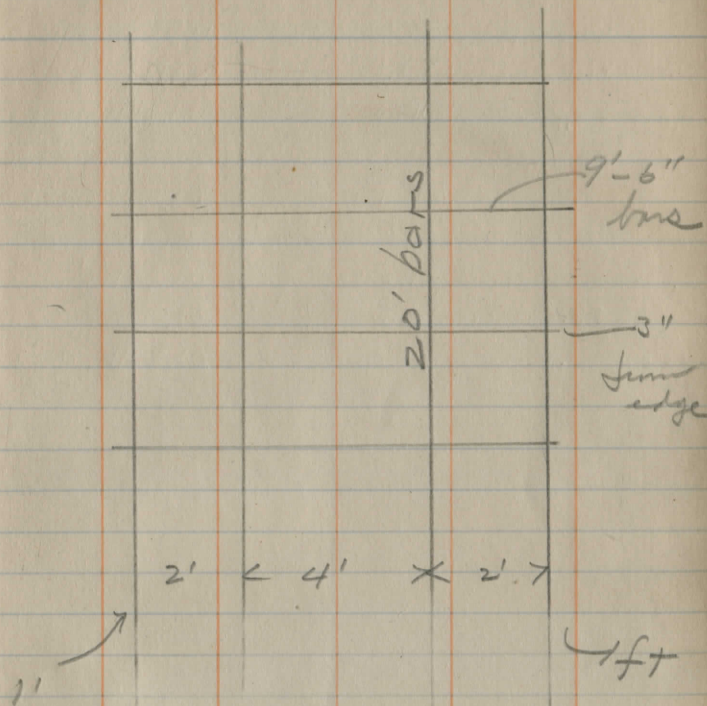
PIPE 148+60 To 150+60

Station	Profile Grade	Profile Rd	d. and	
148+20 <sup>Δ</sup>	1178.76	1182.88		
148+50	1178.76			
+60	1178.20		4.64 + 4.5 =	7.18
149	1176.12		6.76	9.22
+25 = PT				
+50	1172.95		9.93	12.43
150	1169.70	72.54	13.18	15.68
+50	1166.45		6.09	8.59
+60	1165.80		6.74	9.24
				2.76
				25.50 m

+50 omitted

63.20

+60



3/8 Round deformed bars

5340. bars 20' long  
 17.374 bars 9'-6" long  
 103304 # ±

32

x

30ft

□

260 Spike in SW side 12" Apple  
+75 1084.75

252+90 single SW Root 14" M R 1073.56

240+10 " SE " 12" CHERRY R 1080.41

226+95 " E root of 12" Maple L 1096.12

215+90 " N.W. root Map. 12" R 1139.64

206+25 " SE. Root 10" Maple L 1134.78

197 " N.W. Root 12" WAL. R 1151.53

184 " SE Root 24" P. Hick. L 1172.81

162+10 " NW. Root 14" M R 1174.73

144+50 " SE Root 18" Locust L 1187.35

131+75 " W. Root 30" Elm R 1196.66

125+14 " W Root 12" M. TR 1210.91  
26' R

$\frac{1}{2} \times 74 = 37$   $\frac{134 \times 25}{2} = 1675$  58  
 $\frac{3}{2} \times \frac{1}{2} = \frac{3}{4} = 0.75$  1151.53  
18.9  
1153.42

1053.32

1051.53

1151.53

18.9

1153.42

483

1059.71

1148.59

18.07

12.43

1072.78

1161.02

1071.48

121

1075.12

1059.81

320

12.07

1029.2

564

73  
48  
25

1072.81

321

10102

154 T. BM. SW. corner of Profet 1152.33

1072.81

1072.81

321

321

1076.00

1076.02

793

1068.07

4

1151.53

$\begin{array}{r} 231 \\ \hline 115384 \\ 524 \end{array}$

$\begin{array}{r} 114860 \\ \hline 13708 \end{array}$

1161.68

$\begin{array}{r} 188 \\ \hline 115984 \\ 1293 \end{array}$

1172.77

$\begin{array}{r} 26 \\ \hline 117251 \end{array}$

1187.56

$\begin{array}{r} 472 \\ \hline 117288 \end{array}$

1172.88

180  $\begin{array}{r} 117756 \\ 7146 \\ \hline 618 \\ 390 \\ \hline 22 \end{array}$  Round

$\begin{array}{r} 1172.44 \\ 7146 \\ \hline 1438 \end{array}$

1177.56

184  
 $\begin{array}{r} 7756 \\ 7186 \\ \hline 570 \end{array}$

$\begin{array}{r} 34.15 \\ 28.71 \\ \hline 544 \end{array}$

1153.84  
 $\begin{array}{r} 4801 \\ \hline 582 \end{array}$

$\begin{array}{r} 730 \\ 58 \\ \hline 11 \end{array}$

71.46

$\begin{array}{r} 95 \\ 79 \\ \hline 1.6 \end{array}$

1161.68  
 $\begin{array}{r} 5376 \\ \hline 792 \end{array}$

1172.77  
 $\begin{array}{r} 6946 \\ \hline 3.21 \end{array}$

172.77  
 $\begin{array}{r} 6655 \\ 622 \\ \hline 562 \\ 60 \end{array}$

1172.17  
 $\begin{array}{r} 6655 \\ \hline 5.62 \end{array}$  = 14

10770  
 $\begin{array}{r} 117277 \\ 6946 \\ \hline 3.31 \\ 2.1 \\ \hline 0.9 \end{array}$   
APL 5.65  
 $\begin{array}{r} 57 \\ 32 \\ \hline 25 \end{array}$

1072.51  
 $\begin{array}{r} 1071.46 \\ \hline 0.05 \end{array}$

$\begin{array}{r} 105 \\ 26 \\ \hline 79 \end{array}$

$$\begin{array}{r} 38 \\ 16 \end{array} \begin{array}{l} .21 \\ \hline .12 \end{array} + 0.4$$

$$\begin{array}{r} 125 \\ 125 \\ \hline 250 \\ 250 \\ \hline 500 \\ 500 \\ \hline 1000 \end{array}$$

$$\begin{array}{r} .33 \\ 99 \\ \hline 99 \\ 99 \\ \hline 396 \end{array}$$

$$\begin{array}{r} 3 \\ 70 \\ \hline 2100 \\ 412 \end{array}$$

$$\frac{9}{16} \times 35$$

$$\frac{25}{200} \times \frac{3}{8}$$

$$\frac{9}{64} \times 35$$

$$\frac{30}{1}$$

$$\begin{array}{r} 35 \\ 35 \\ \hline 70 \\ 70 \\ \hline 140 \\ 140 \\ \hline 280 \end{array}$$

$$\begin{array}{r} 1086.54 \\ 93 \\ \hline 1085.61 \\ 19 \\ \hline 108580 \end{array}$$

$$\begin{array}{r} 64 \\ 25 \\ \hline 89 \\ 89 \\ \hline 178 \\ 178 \\ \hline 356 \end{array}$$

$$\begin{array}{r} 108561 \\ 5 \\ \hline 108562 \end{array}$$

$$\begin{array}{r} 1085.61 \\ 5 \\ \hline 1085.62 \end{array}$$

185



