

✓ + Adv (RT) grand

+203375

✓ 17

38

45

+02

26

G20-8 (X)
7.5

9.55 + 0.44 - 0.20
43 - 26.88

9.86 + 0.20 45.76
9.83 + 0.22 6
9.54 + 0.21

9.54 - 346 + 262 - 553 545 75
9.56 - 369 + 552 - 537 562 6 547 5
9.54 - 362 + 570 - 583 2.180
9.55 - 365 576.7 - 588 2.130 (3)
317



W (2130) (RD) ✓

9.79 + 48 - 10

+ 18° 34' 23 17 37 12 + 18 34.5

6-170-56

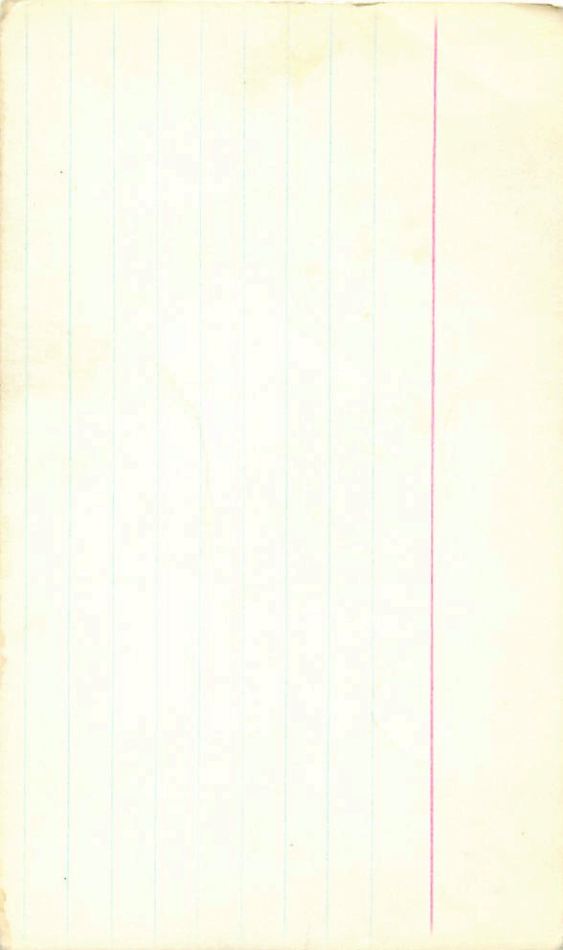
N . . .

/ Y (18)

E . . . (10)

968 + 0.180 175478
965 + 0.165 45476
966 + 0.17

9.78 - 376 + 832 - 488 25 Aug 75
9.79 - 364 + 825 - 465 29 Aug 75
9.78 - 371 + 828 - 477
- 522 9.78 + 341 + 110 + 315



Grand

NO

1074289

34

23

4

1845

5071

1709

111

✓

✓

✓

✓

✓

✓

943 -253 (879) 568 236 246

945 -341 909 -489 1099 77

943 -321 910 -422 1099 77

946 -313 (935) 503 2199

944 -310 906 -475 (4)

918 1020 1577

930 1015 577

935 1023 1077

926 1020 2077

928 1020 5

918 1020 1577

930 1015 577

935 1023 1077

926 1020 2077

928 1020 5

918 1020 1577

930 1015 577

935 1023 1077

926 1020 2077

928 1020 5

918 1020 1577

930 1015 577

935 1023 1077

926 1020 2077

928 1020 5

918 1020 1577

930 1015 577

935 1023 1077

926 1020 2077

928 1020 5

W 344 180

300

9.50 10.14 10.12
④ 5359

427 45.5

111

9.18 10.20 1577

9.30 10.15 577

9.35 10.23 1077

9.26 10.20 2077

9.28 10.20 5

✓ d ✓
✓ d ✓
1054

10.61 + 54 - 11

17 46 03 - 8 46

G20-15'

1748

68 2307

-562

~~-583~~

10.62 - 243 + 750

757

-584

28 Aug 75

10.43 + 0.29545

807

-602

21 Aug 76

10.34 + 0.2856

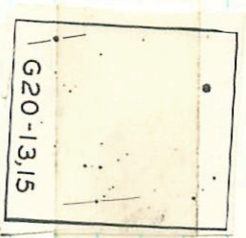
769

-583

22 Aug 75

10.38 + 0.29

③



Imp. newsp not TP ✓ ✓
 14 37 50.9 ✓ -45 45 16 (1955)
 17 32 00 ✓ 45 44.5
 159809 ✓ 60865 ✓

10111

111

444 ✓

546 427 444

245 -133
 246 -129
 247 -120
 248 -113
 249 -111

1162-448 8 July 77
 1161-445 9 July 77

705 -1034 8 July
 692 -1032 12 July 77

746 -111
 747 -111
 748 -128
 749 -120

1166-471 10 July 87
 1160-465 11 July 87

706 -10315 18 July 77
 707 -10312 15 June 74

745 -140
 746 -120

1190-466 31 June 86
 1187-457 31 June 87

706 -10210 ③
 720

~~183 was the 18~~ ① Mrs

208 6/12 4/4 4/0 ②

A.B. 6

✓
6.99 + 16 + 15

6-161817

17

45

43

+ 25

45.5

6.985 0.000 000 1147

(std)

.137 .116 1.206 (PPWD)

~~109 0.76 1.159 (2)~~

2.791

6.98 583 + 829 + 347

6.91 589 + 776 + 351

6.95 596 + 800 + 349 277

~~6.113 1.191 (1417)~~

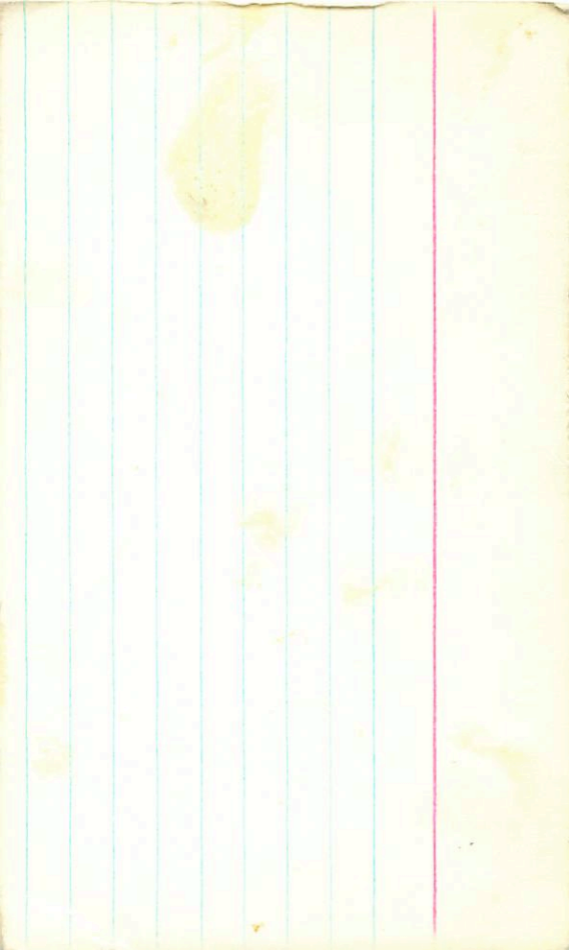
~~+ 116 + 878 + 1.214 (2) 2.817~~

* 6.95 109 086 1192 (2)

2.303 20 Aug 75

2.309 26 Sept 75

2.306



Newburg

✓

+ P

✓ 34

2.16471

161612

17

46

141

- 34

00.5

(1985.5) 17 47 60.3 -3400 45

17 46 35

- 34 00.5

7.20 -270 954 -420 12 June 77

7.23 -260 953 -427 16 " "

7.24 -266 943 -438 10 Oct 75

7.24 -266 950 -428 30

7.24 MS 219 482 30

7.02 + 0.23 (4)

6.85 + 24 3 May 77

7.02 + 0.29 4 May 77

6.91 + 0.225 30 June 77

6.93 + 0.235 (3)

225 bar

above 1614? R 9.50 to 64 to 112

W10297 ✓ 17 46 45 +27 45

G18226

9.47 -312 899 -428 22478

9.52 -323 916 -465 8116

9.50 -318 905 -445: ②

340 178

486

2098
2065
208

9.18 +0.203 15078

1312 544 439



✓ ✓ ✓ ✓

6-15-13

6-15-19

(3240)

154 3243 26 18

11.27-233-772-667 23 June 76

11.33-221-753-711 24 June 76

11.35-234-774-725 26 June 76

11.37-221-752-670 17 Sept 76

11.33-249-812-732 20 "

11.34-282-773-704 (5)

also (13V) (1)

17 55 05 -16 24.5

(1 RT)

" 0.6

~~TR~~ 27

10.58 + 0.31 12 July

11.11 + 0.30 5 21 June

11.10 + 0.26 45 July

11.07 + 0.24 6 "

11.04 + 0.30 5 (3)

11.26 + 0.70 - 0.43

(3)

10.9 + 4.5



G154-34

R-I = 10.43

(1985.5) 18 16 02.3 -27 43 24

6.68 + 1.26

167576

18 15 20 -27 43

120 11

6.65 +031

1370

-407

25 June 96

6.68 +041

+1408

-508

13 Oct 75

6.67 +048

+1398

-504

14 Oct 75

6.68 +048

1403

-506

501 yr

1614

775 640 207

766 635 407 430

40

45 3

407

6.55 (X)

639 411

387

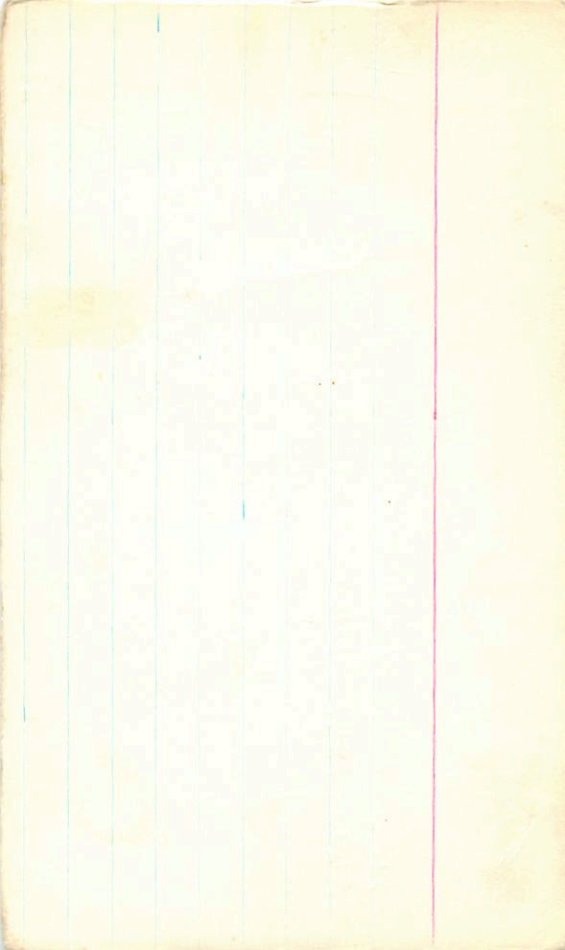
407

387 667

090

386

17187



8.58 +182 +2.02 24 Aug 72
 8.53 +188 +2.04 5 Aug 72
 8.59 +190 +1.99 21 Aug 72
 168227 18 17
 8.54 +182 +2.05 25 Aug 72
 (8.52 +181 +2.01) 27 Aug 72
 8.53 +183 +2.09 3 Aug 72
 8.59 +180 +2.01 13 Oct 71
 8.74 +178 +2.11 24 Oct 71

1459.53 +184 +2.02 17 May 72
 8.56 +187 +2.04 20 May 72
 8.53 +185 +2.04 22 May 72
 8.60 +1.86 +2.025 1473.08
 8.61 +1.955 +2.085 1475.01

JM 8.66 +1.89 +2.00
 8.64 +1.82 +2.04 7 Aug 72

7.14 +1.00 25 Aug 72
 7.18 +1.005 27 Aug 72
 -15 37.80 RB

7.15 +1.025 1 Oct 71
 7.18 +1.04 17 Oct 71
 7.27 +1.02-23 Oct 71
 7.13 +1.02-18 May 72
 7.13 +1.03 21 May 72
 7.34 +1.12
 7.14 +1.02-19 Oct 75

Barnard's

8.70	+1815	+2.115	1244.72
8.67	+1811	+2.27	1552.94
8.56	+182	+2.03	1556.96
8.44	+178	+2.07	1568.46
8.51	+183	+2.01	1564.93
8.50	+180	+2.00	1573.93

G-2 ✓✓✓

Abu RI ✓

Rosa 711

19 34 21 +28 40.5 11.30 +42

G206-34

39.5

31.8

25

26

61

11.75 +0.255476

11.44 -361 797 -609 15 Sept 76

11.44 +0.2256"

11.40 -382 792 -602 24 June 76

11.36 +0.2251854

11.38 -371 742 -589 5 Sept 76

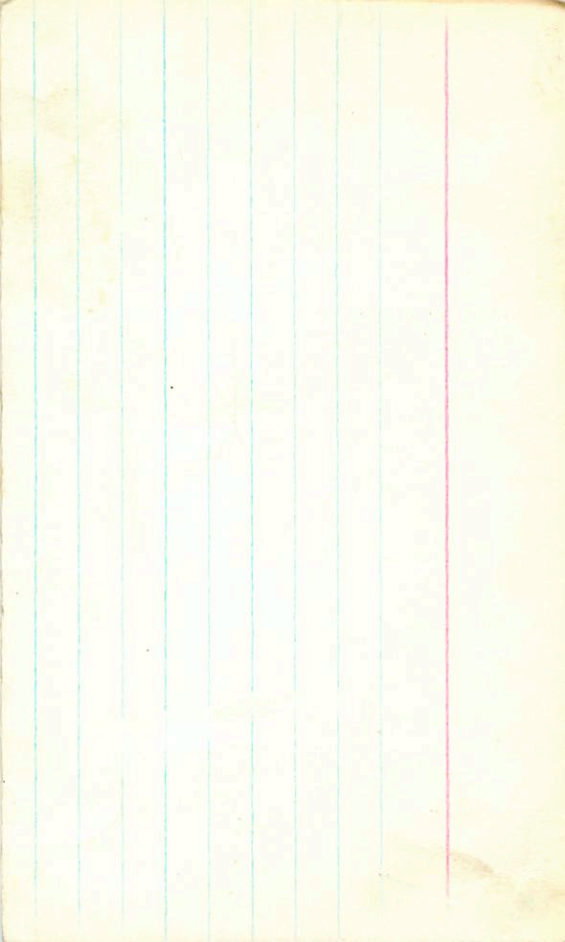
11.40 +0.225 (2)

11.30 -353 (725) (-4188) 6 Sept 76

11.36 -348 741 -575 7 " "

11.43 -370 746 -564 14 " "

11.38 -364 763 -598 (6)



172447 AB ^{very close} ✓ 18 41 50 -55 47 ¹⁵¹ 2.62
 C ✓ 012 22 " } 10.32 ¹⁵²

+P+H ✓ 263 -365 881 -482 2.156 23 Aug 74
 RFI ✓ 264 -362 869 -471 2.155 2 Aug 74
 ✓ 263 -370 884 -493 2.146 19 Aug
 263 = 360 878 -498 2.152
 340 ✓ 153 427 2.624 ✓
 (255) (350)

10.28 -182 1120 -465 9 Aug 74 9.88 +0.306 18 Aug 74
 10.29 -180 1101 -456 9.89 +0.304 20 Aug 74
 10.30 -178 1108 -487 23 Aug 74 9.88 +0.305 (2)
 10.31 -180 1110 -484

(A)

842-205 1095-405 4/25

~~845-197~~ 1040-481 (3)

846-768 1082-488

848-202 1097-488

843-194 1091-475

" " 5
" " 8
" " 78 26

8.52 ✓
8.51 ✓
8.52 ✓
+0.305 15.23
+0.305 17.11
+0.305 15.23

12.544
↑

173397

R

19 47 210 -62
18 47 58.7
23 24 (1985.5)

Sta. Horiz

502 and 1952

* $\Delta \log(CAT) \checkmark$ ~~2.5~~

9.07 + 0.58 - 0.5

175179 \checkmark

18 53 04

-04 38

G 22-6

69 \checkmark 113

9.07 - 321 846 - 543 23 June 76

9.06 - 309 837 - 547 21 April 76

9.09 - 339 857 - 523 24 June 76

9.07 - 323 846 - 538 (3)

8.95 + 0.23 45 April 76

8.89 + 0.25 6.1

8.92 + 0.23

+ 371 + 1154 + 258

395 123 869

439

222766



G22-6

RI

2.46.10.7.40

17 55 19 18 54 82 = 05 46 74 75

$$R = 7.16$$

$$R-I = 10.24$$

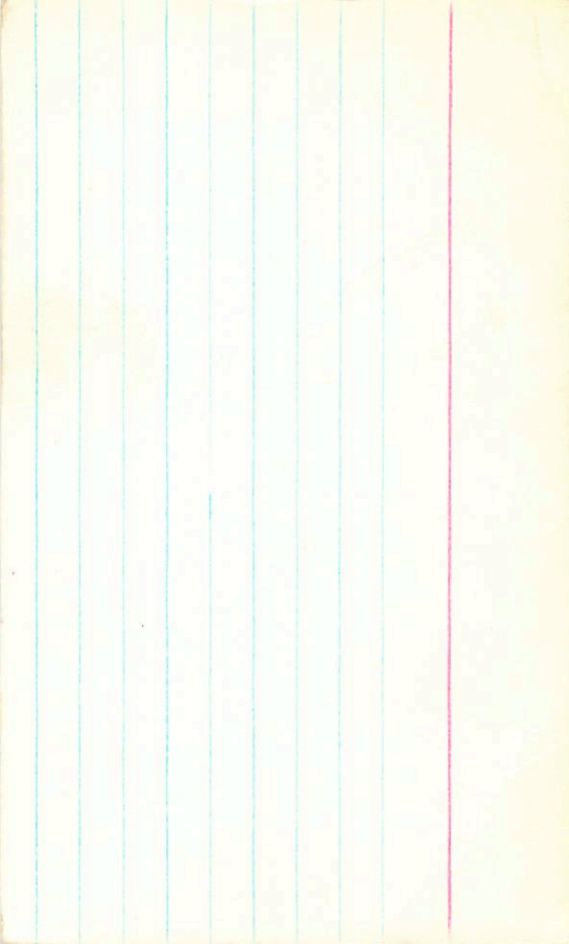
$$\begin{array}{r} 247 \\ 246 \\ \hline 246 \end{array} \begin{array}{r} -255 \\ -244 \\ \hline -249 \end{array} \begin{array}{r} +1001 \\ +994 \\ \hline +998 \end{array} \begin{array}{r} -389 \\ -373 \\ \hline -381 \end{array} \begin{array}{r} -411 \end{array}$$

463 263 500

~~463 263 500~~
~~463 263 500~~
~~463 263 500~~

246 X 463 263 500

13 cent 75
14 cent 75



7.39 + 120 + 120
6.86 + 0.415

18 54 36 -00 46

175545

150

76m/pe
76m/pe

104- 8821
544- 0921 114 rhc

544- 6221 14 rhc

7.12 350

984 185 44

(1965.5) 18 58 049 -70 29 33

6.74 AFB

-70

15

57

15

175007

② (A) (B)

258

176

162

948

Aug

6.50-522-888

+23

2.261

11205

6.20 174 169 576 1060.
948

✓ ✓ Alvo (1RF)

178144

19 08 50

50 - 49

30.0

5.75 + 0.24 (2)

~~9.10 + 0.62 + 0.25~~

~~Cherry 3.7~~

9.03 - 245 948 - 566 20 Sept 76

~~9.25 - 275 (264 - 391) 5 Sept 76~~

9.05 - 278 (835) 822 6 Sept 76

9.09 - 288 884 (464) 7 "

9.06 - 292 948 - 501 14 Sept

9.05 - 308 863 - 568 15 Sept 76

9.05 - 291 877 - 540 (5)

8.95 + 0.24 (2)

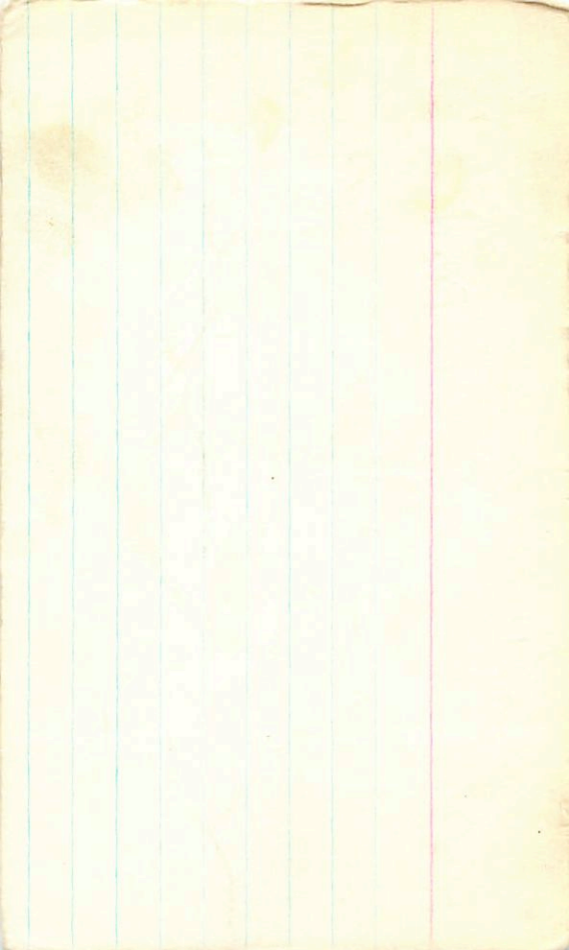
8.79 + 0.245 12 Sept 76

8.9

6.8

1.57

3.5



HD 179930

744

925
799

8.43

935

Recorder 4036

Uyalo

935^f

$$\begin{array}{r}
 9.35 \\
 9.70 \\
 \hline
 9.38 \\
 1.56 + 1.06 \\
 1.53 + 1.20 \\
 \hline
 1.545 + 1.13
 \end{array}$$

9.35

9.35

$\frac{1.56}{1.53}$
 $\frac{1.06}{1.20}$
 $\frac{1.545}{1.13}$
 7.86
 8.65
 9.03

19 16 15 -45° 55'
 936
 935
 934
 933

958
34

42 May

10.21 +0.515

$$\begin{array}{r}
 9.70 \\
 9.38 \\
 \hline
 1.545 + 1.13
 \end{array}$$

10.00

+0.37

29 Apr 69

Winn

-46° 50'

10.00 +0.44

30 June 69

8.16

10.05 +0.50

8.16

7.

8.61 +0.715

20 Sept 69

8.50 +0.705

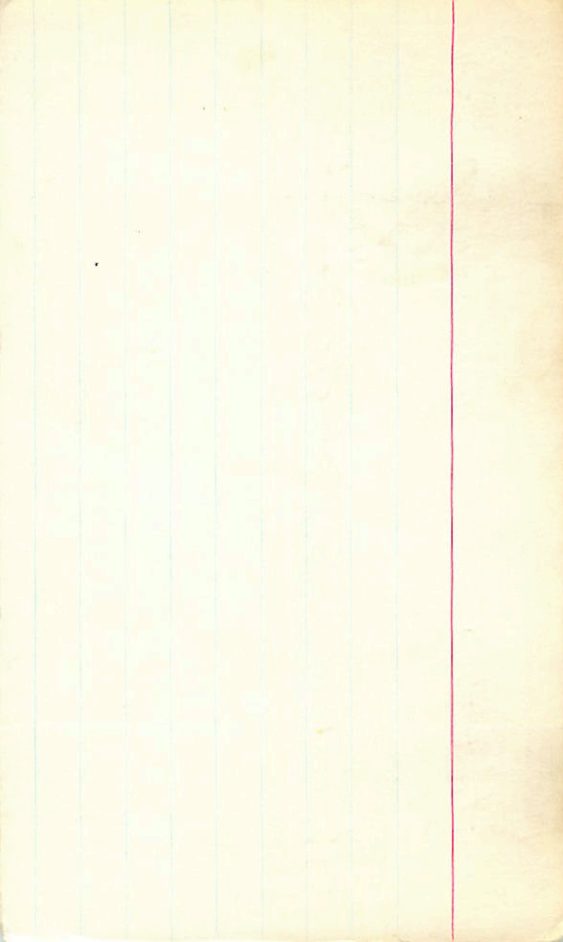
8.51 +0.71

3 Oct 69

3

8.57 +0.695

4 Nov 69



new log

+10 ✓

722 + 64 0.2

179190 ✓ 19 12 40 58 03

1304

2.11 29 my B
2125
2120

727 327 909 423 29 my B

652 + 0.19 12 my 77
654 + 0.19 13 my 77

726 326 855 415 9 my 77

653 + 0.19

728 328 918 437 10 my 77

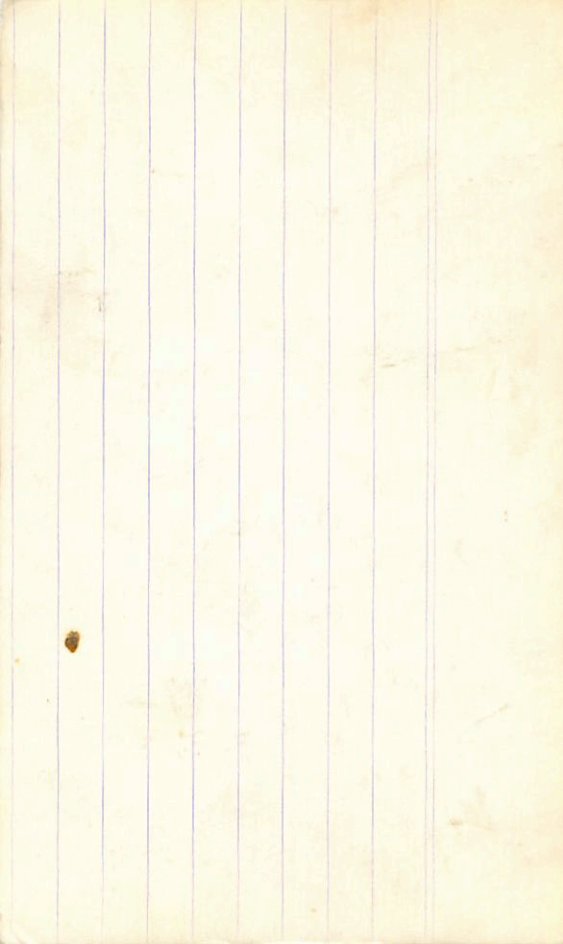
729 329 926 446 11 my 77

725 325 916 429 7 my 77

725 325 916 430 4

10 m 0.5

29 my B



185921 ✓

19 16 55 814 55 71 61

48.5
5.8.4

26 Oct 1914

185922 ✓

~~19 16 55 814 55 71 61~~

ht

(+)

(Dr)

(Dr)

2657364 905-824

45482

John
Carpenter
P. V. V. V. V.

185923

27-13

R 4036

-46° 12902

19

13.1

-45

48

10.9 155

LTT 7629

Rapid motion

10.3-10.3

0.7

0.45 1540

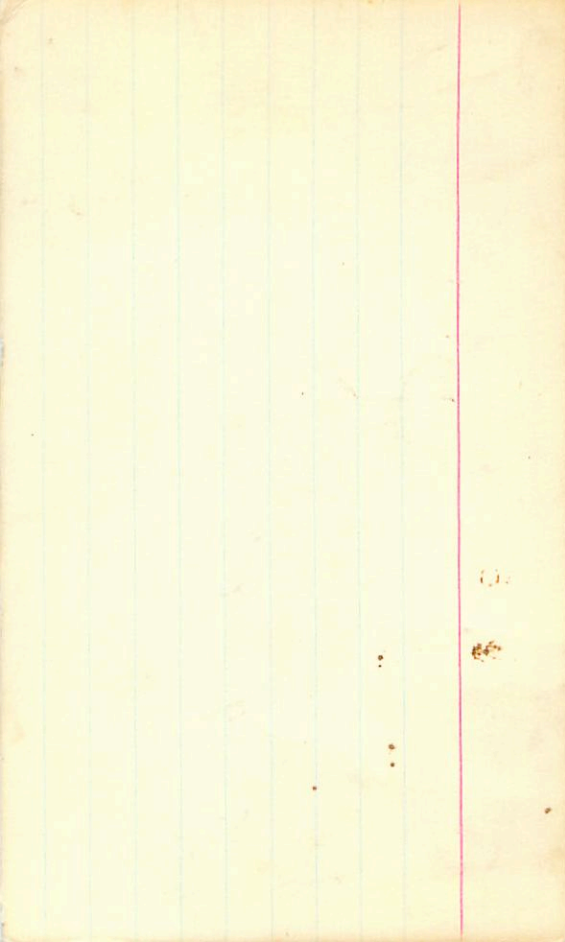
9.36 +1.42 (2.26) layer

9.35 +1.44 +1.38¹⁴ Act 66

~~9.35~~

8.55
7.78

2.55
9.2
9.7
9



Q11 Amt

19 18 00 -24 25.5 9.2 40

180903

Q11 Amt

Q11 Amt

Q11 Amt

sell 28-29-

9.57 -525 832 +332 2.297 8 Sept
 9.56 -515 815 +346 2.283 7 Sept
 9.56 -517 827 +342 2.298 16 Sept
9.56 -519 825 +340 2.293 ③

179 104 342 2.797
 1.220

181809 (1985,5) 19 21 47.8 -20 40 26 685140
508181 19 21 30 -20 41

(X)

6.65-93

6.70-86 1127-509 2 June 84

(X)

572

6.70: 6.33 382 359 0

5901

(1985.5) 19 19 59.0 -45.24 08

187041 19 19 30 -45 25 6.5 Ma

(*) (*)

V6a

6.79 +0.343 10 Oct 88

6.80 +0.344 2 Jan 89

187414

19

19

26

+4

44.5

M=2011

(A)

7.06 1631 923 + 149 2.383 5 June 94

6-8 A2

✓

181720

19 21 15 -32 58

7.80+585-065

7.91+4.50
7.91+4.50

Population
11 years

(R)

12.4K

7.59+0.235

(Line 8 10.91 20.21 30.77)

23 June 76

7.89 -322-850 -494

7.91 -336 +966 -454

24 Aug 75

7.92 -326 928 -782

7.91 -328 960 -492

24 June 76

2.4/1.9 2.1/2.0 2.2/2.1

4361 + 1677 + 297

7.91 + 7.91 + 3.13

380 136 710

1924 53 -495220 1985.5 6.6 120

182215 19 24 25 -49 53

RO III

(A)

(2)

6.6.5 -140 1113 -506 106.885
~~6.6.9~~ -752 1185 -483 2 Jun 74
~~6.6.9~~ -140 1126 -495

(A)