

-2

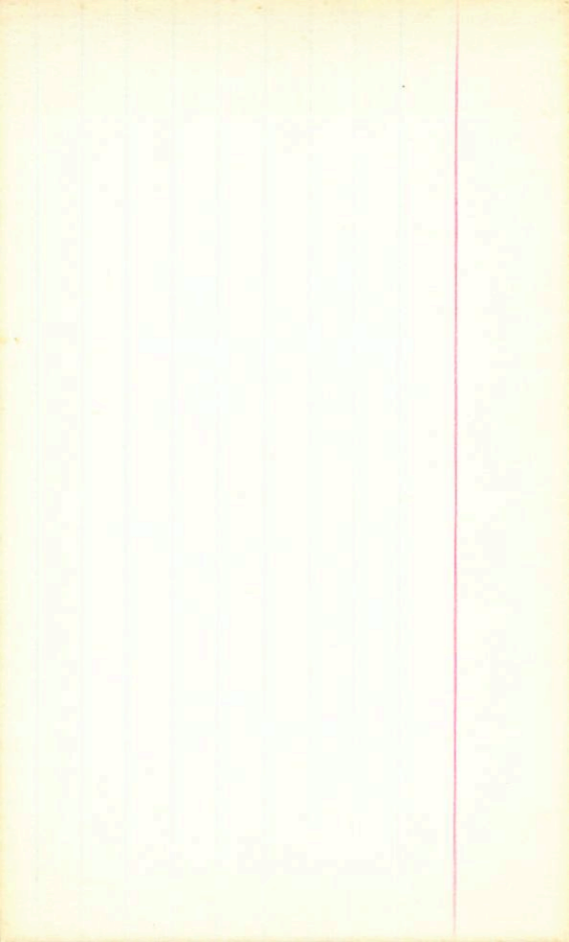
12.74 + 1.365 #R28 222772

-114

1382-10.67 +0.18 22mg72

115

13.27 +0.57 +0.18 22 my 72



116

14.23 + 0.855 + 0.38 22 May 72



-117

14.10 +0.985 +0.73 22772





-118

1434 +0.77 CL.04 13th  
reference 20.07 +0.27 22nd 72-



119

14.10 + 1.305 + 1.04 27mg 72

-120

15.07 + 1.23 - 23772

2477 #12 (#448)

<sup>1/2</sup>  
12.61 -5-9 1.79 1/2

12.60 -60 1.80 1/31

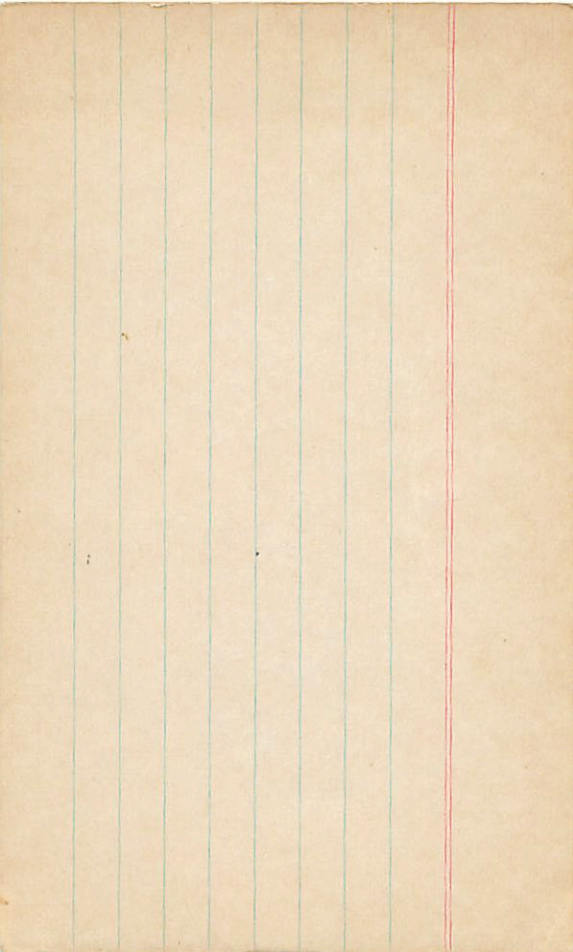
(12.49) -56 1.74 2/4

12.60  
-56  
-67  
1.78  
1.54  
22

1192  
3

W Van #7

18:45	14.22	-6.3	1.63	5/25
20:46	13.94	-8.1	1.73	5/27
18:47	14.10	-7.3	1.59	6/29



(#358)

2477 #3

13.563	-43	(1.50)	1/3
13.58	(-51)	1.61	1/31
13.03	-46	1.67	2/4
13.04	-44	1.64	2/28
<u>13.56</u>	<u>-44</u>	<u>1.64</u>	
	-50	1.56	
	119	1.08	
	<u>169</u>		





47 Tue

Var #3 11.75 +1.875 26 Nov 70

Var 11.43 +0.655 5 Dec 69

10.41 +1.40 31 Oct 70

10.91 +1.46 17 Dec 68

10.82 +1.43 18 "

10.76 +1.51 19 "

10.46 +1.335 30 Dec 68

10.23

9.60

10.19

10.25

+1.335

+1.17

+1.335

+1.21

26 July 69

20 Sept 69

3 Oct 69

27 Oct 70

$$M - O = +1.6 \pm$$

$$B = 1480$$

24 Nov 70

$$14.27 + 1.54 + 0.52$$

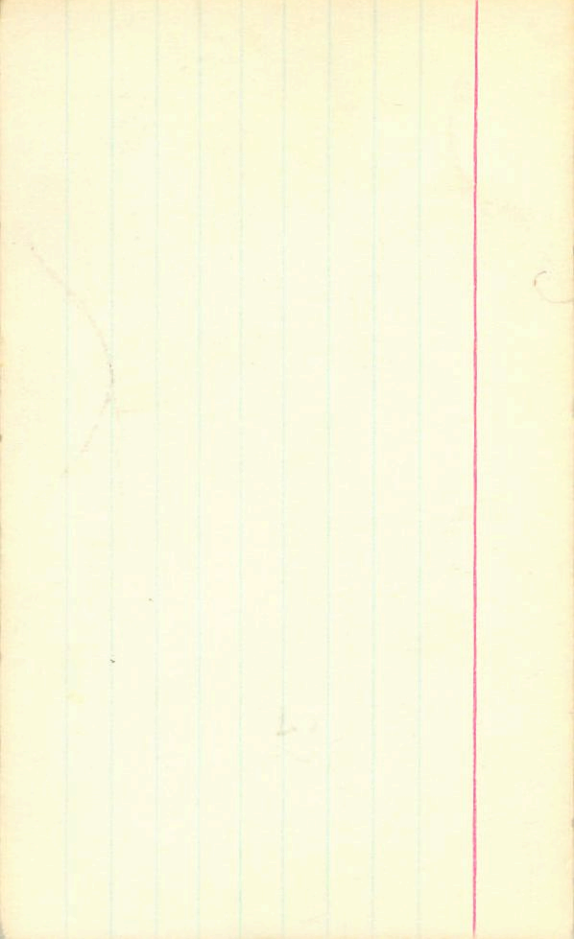
$$12.39 + 1.33 + 1.12$$

$$11.28 + 1.79 + 1.61$$

$$12.26 + 1.65 + 1.39$$

$$12.42 + 1.80 + 1.25$$

17 July 69  
17 Oct 70  
1393 Oct  
1393 Oct  
1393 Oct



Var #5

10.74

+0.83

8 Nov 69

11.02

+0.79

17 Dec 68

10.99

+0.805

18 "

11.00

+0.80

10.87

+0.805

30 Sep 68

10.70

+0.77

31 Oct 70

11.75 +1.68 +2.01 17 Nov 68

10.46

+0.865

26 Sep 69

11.86 +1.67 +1.97 5 Dec 69

10.42

+0.81

20 Sep 69

11.76 +1.66 +1.86 17 Oct 70

10.60

+0.80

30 Oct 69

11.67 +1.675 +2.01 3 Oct 70

10.66

+0.835

5 Dec 69

n=0 = +0.60  
1332 = 0

11.70 +1.67 +2.13 17 Nov 70  
12.09 +1.655 +1.85 24 Nov 70

→

40-

12.02

Var #7

10.75 +0.53 17.15 Dec 68 (2)

10.66 +1.15 25 July 69

10.58 +1.04 26 Sept 69 (2)

10.59 +1.04 8 Nov 69

10.73 +0.99 5 Dec 69

10.91 +1.06 27 Oct 70

10.98 +1.05 31 Oct 70

10.89 +1.08 25 Nov 70

10.81 +0.99 30 Dec 70

11.89 +1.78 - 9 Nov 68

12.24 +1.74 +1.94 17 July 69

11.87 +1.73 +2.18 4 Dec 69

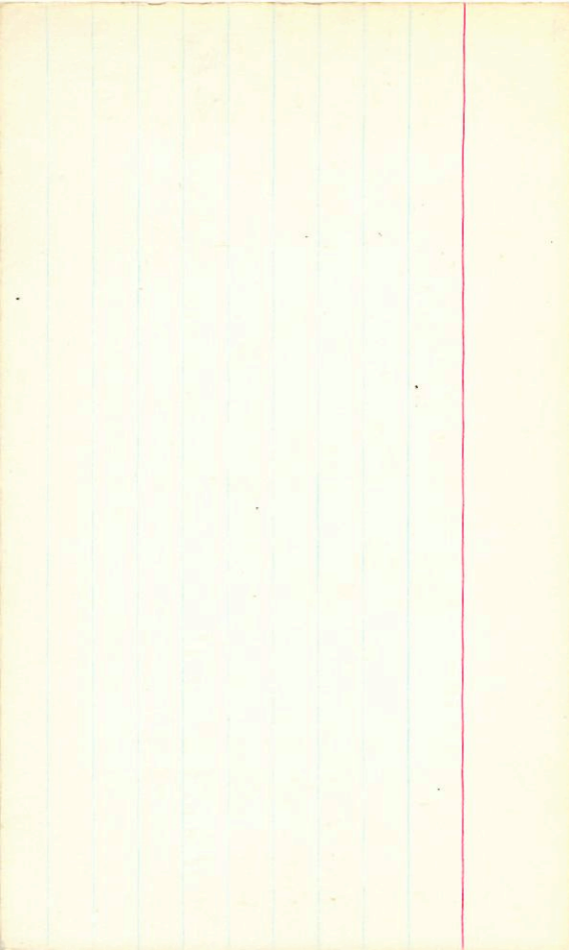
12.46 +1.725 +2.18 7 Oct 70

12.15 +1.75 +2.09 30 Oct 70

12.17 +1.725 +1.96 1 Nov 70

12.05 +1.75 +2.17 24 Nov 70

11.95 +1.71 +2.04 1 Jan 71



47 Inc

Var #7

10.46

+1.05

20 Sept 69

10.66

+1.15

25 July 69

10.69

+1.035

3 Oct 69

10.74

+0.91

17 Dec 65

10.76

+0.95

18 "

10.75

+0.93

10.63

+0.92

30 March

10.70

11.89 + 1.78 + 2.67

9 Nov 69

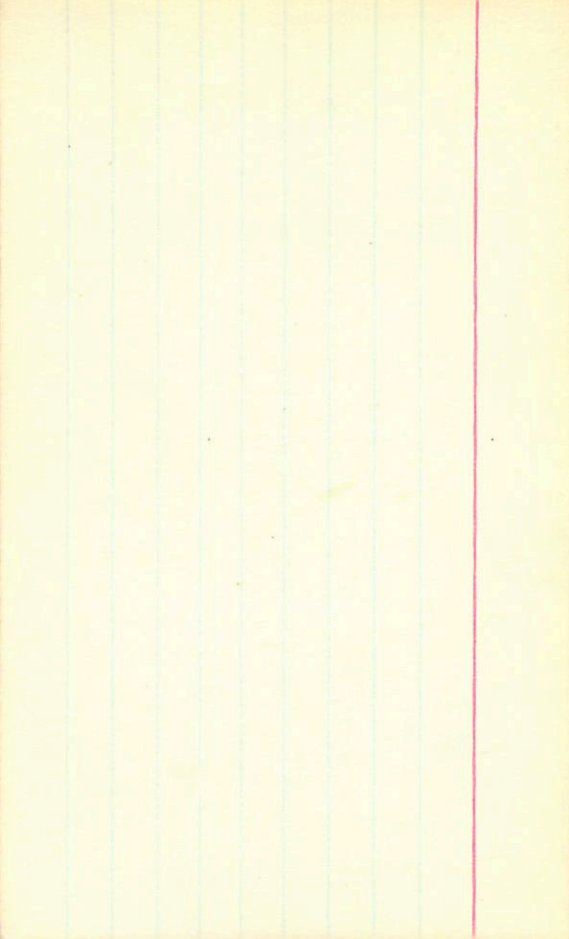
10.2

12.24 + 1.74 + 1.54

17 July 69

$n = 4 = 4.62$   
 $S = 1.835$





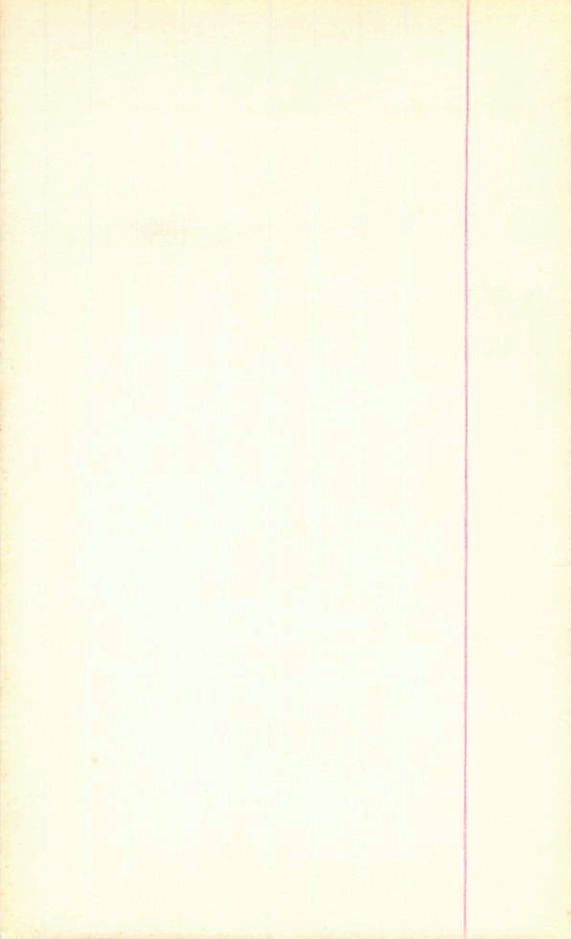
5897-209

20

$$\begin{array}{r}
 13.77 \\
 \underline{13.78} \\
 13.78 \\
 + 1.295 \\
 \hline
 15.075 \\
 + 0.83 \\
 \hline
 15.905 \\
 + 0.85 \\
 \hline
 16.755 \\
 + 0.94 \\
 \hline
 17.695
 \end{array}$$

$$\begin{array}{r}
 13.14 \\
 \underline{13.14} \\
 13.14 \\
 + 0.53 \\
 \hline
 13.67 \\
 + 0.57 \\
 \hline
 14.24
 \end{array}$$

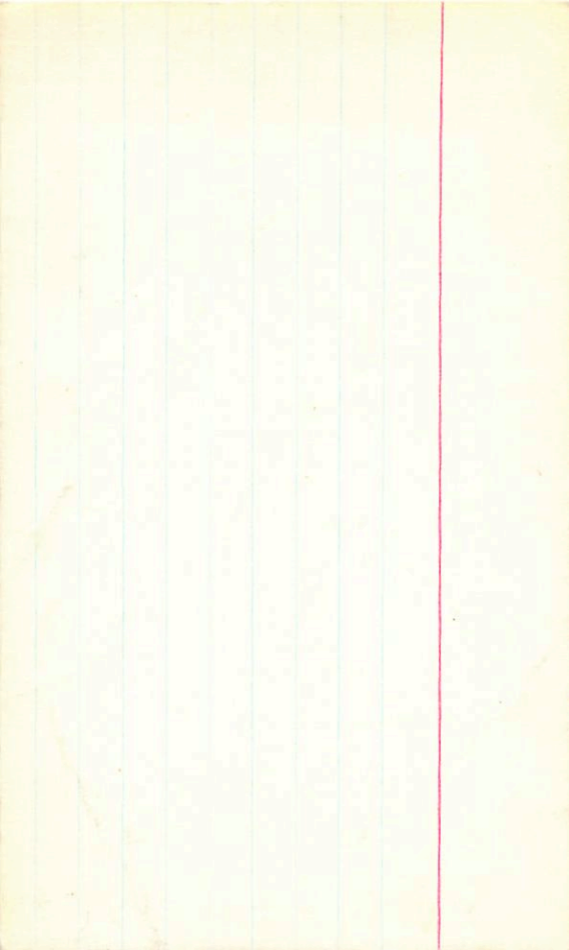
$$\begin{array}{r}
 23 \text{mg} \\
 25 \text{mg} \\
 \hline
 48 \text{mg}
 \end{array}$$



Ast. Schynk Supp 9 Page 255

NGC 2335 7 06 42 -10 00

<del>4</del> 9.		
8	10.55	21. 11.65
10	10.7	Var <u>25</u> 11.95
12	11.05	28 12.1
14	11.35	
19	11.6	
17	11.5	
19	11.6	



M5

4-46	15.15	+0.49	+0.08	22 Apr 63	200
4-65	13.99	+0.68	+0.10	22 Apr 63	200
4-78	13.63	+0.72	+0.19	22 Apr 63	200
1-34	16.18	-0.30	+0.22	22 Apr 63	"
1-72	15.70	+0.04	-0.02	22 Apr	200
1-46	15.58	+0.09	+0.01	22 Apr	"

NGC 1502

#1	7.93	+0.09	+0.08	200" Jan 62
	7.93	+0.08	+0.06	" "

#2	<del>7.94</del>	+1.22	+0.81	200" Jan 62
	7.99	+1.21	+0.79	" "

57-

45 ✓ 18.66 +0.44 -0.08 16 Apr 66 200"

27 ✓ 13.48 +0.79 +0.40 16 Apr 66 200"

E15 ✓ 17.08 +0.79 +0.27 13 June 66 200"

E18 ✓ 14.94 +0.78 +0.37 13 June 66 200"  
14.98 +0.75 +0.40 29 Feb 68

E17 ✓ 14.34 +0.64 +0.09 13 June 66 200"  
14.40 +0.61 +0.11 29 Feb 68



57-

41 · 17.40 +1.33 +0.72 16 Apr 66 2007

100 ✓ 17.25 +0.61 -0.08 16 Apr 66 2007

96 ✓ 16.38 +0.52 -0.15 16 Apr 66 2007

93 ✓ 16.80 +0.56 -0.05 16 Apr 66 2007

91 ✓ 18.10 +0.25 50.04 20.81 16 Apr 66 2007

55 15.0

57-

60 ✓ 17.08 +0.56 -0.09 13 Mar 66 200"  
17.07 +0.61 -0.02 15 Apr 66 200"

63 ✓ 15.73 +1.02 +0.78 13 Mar 66 200"  
15.70 +1.01 +0.87 15 Apr 66 200"  
15.95 +0.79 +0.22 29 Feb 66

61 ✓ 16.04 +0.77 +0.93 13 Mar 66 200"  
58 15.98 +0.80 +0.27 15 Apr 66 200"  
59? - 15.64 +1.00 +0.86 29 Feb 68

2 - 17.19 +1.54 +0.93 13 Jan 66 200"

4 17.93 +0.69 +0.88 13 Jan 66 200"  
16.74 +1.19 +0.51 29 Feb 68

57-

E13 ✓ 14.94 +1.11 +1.14 11 Mar 66 200<sup>0</sup>

E11 ✓ 14.54 +0.67 +0.07 11 Mar 66 200<sup>0</sup>

F11 ✓ ~~18.84~~ 18.33 +0.41 -0.09 16 Apr 66 200<sup>0</sup> | Again  
18.24 +0.42 -0.12 13 Jun 66 200<sup>0</sup> |

58 ✓ 14.01 +0.86 +0.47 13 Mar 66

13.96 +0.86 +0.49 29 Feb 68

76 ✓ 15.90 +1.45 +1.22 13 Mar 66

15.90 +1.29 +1.35 16 Apr 66 > 200<sup>0</sup>

16	✓	13.50	+1.00	+0.85	11 Mar 64	200"
		14.73	+0.57	+0.09	21 Apr 64	100"
7	✓	(14.74	+0.73	-0.08)	11 Mar 64	200"
		14.69	+0.61	+0.05	16 Apr 64	200"
		14.67	+0.60	+0.03	16 Jun 64	200"
E22	✓	14.84	+0.62	+0.01	11 Mar 64	200"
29	✓	11.69	+0.84	+0.46	11 Mar 64	200"
77	✓	13.24	+0.82	+0.32	11 Mar 64	"
6	✓	15.68	+0.69	+0.07	15 Apr 64	200"
		12.37	+1.27	+1.13	29 Apr 68	

Open

SA-57 (14.95) +0.50 -0.20 14 Apr 64 200"

-40 ✓ (14.74) +0.50 -0.20 13 Jun

-73 17.30 +0.71 -0.07 Jun 13

17.28 +0.67 +0.07 Jun 14

-87 ✓ 16.96 +0.67 -0.04 13

16.98 +0.71 +0.03 14

-17 ✓ 16.91 +0.58 -0.11 13 Jun 66 200"

16.90 +0.60 -0.08 18 Jun 64 200"

-15 ✓ 15.72 +0.65 +0.06

15.79 +0.63 +0.06 11 Mar 64 200"

-A(1) 8:56 +0.63 +0.03

+0.64 13

8.60 +0.62 +0.01 11 Mar 64 200"  
8.60 +0.62 +0.03 13 " 200"

57-  
52

✓ 12.34 +1.22 +1.16 11 Mar 66 200"

E21 14.10 +0.59 +0.01 11 Mar. 66 200"

E20 15.02 +0.95 +0.73 11 Mar 66 200"

12.92 +0.53 -0.06 21 April 66 100"

11 ✓ 13.01 +0.48 -0.07 11 Mar 66 200"

8 ✓ 13.15 +0.61 +0.04 11 Mar 66 200"  
13.10 +0.61 +0.04 21 April 66 100"

SA 57 .13<sup>h</sup> +28°

-54 ✓ 14.01 +0.68 +0.17 Jun 13 64 200"  
14.04 +0.67 +0.16 11 Mar 66 200

-74 ✓ 16.40 +0.72 +0.19  
16.43 +0.72 +0.20 13 Mar 64 200"

-82 ✓ 15.17 +0.39 -0.22

-72 ✓ 14.95 +0.48 -0.19 Jun 13

1051 ✓ 15.65 +0.77 +0.14  
14.94 +0.76 +0.25 Jun 14  
12.04 +0.21 11 Mar 64 200"

-25 ✓ 14.94 +0.76 +0.25 Jun 14

57-

200 77 40 51 05.04 09.14 81.71 ✓ 16

200 77 40 51 05.04 15.14 70.99 03M

200 77 40 51 18.14 05.14 88.88 ✓ 23M

200 77 40 51 40.04 02.04 50.71 41

200 77 40 51 — 45.14 78.71 ✓ 51



57-

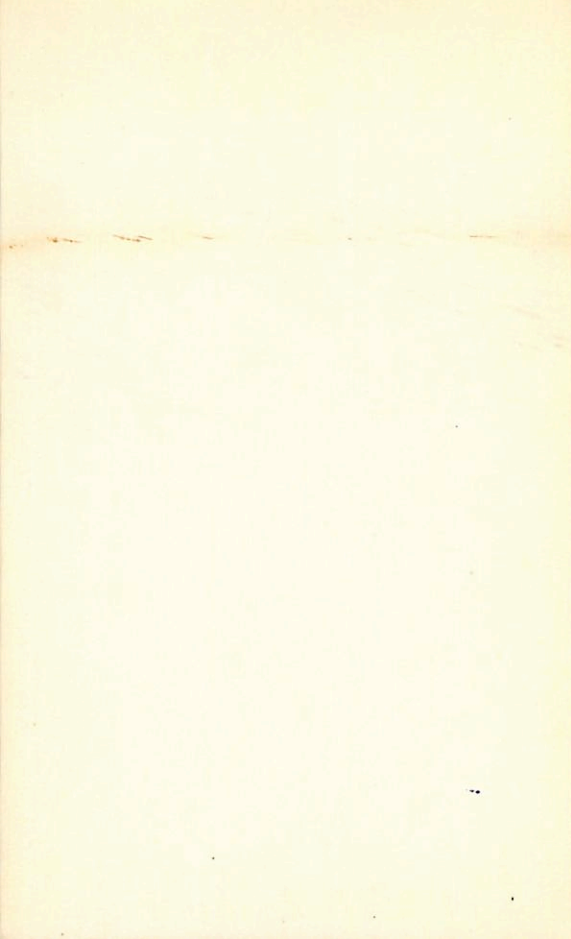
92 ✓ 18.16 +0.47 -0.09 16 Apr 66 2022

88 ✓ 17.08 +0.83 +0.56 16 Apr 66 2022

93A ✓ 14.03 +0.52 ~~78.06~~ 16 Apr 66 2022

75 ✓ 17.05 +0.79 +0.24 16 Apr 66

67 ✓ 17.78 +1.25 +1.15 16 Apr 66



6522

mp 181.8 — 5914 B.M. (85) HEN  
mp 181.8 — 04.14 24.51 F.HEN

olini -

June 10, 64

G 139-8 is a procedure

24 (probably) weeks time SD F (early)

or a longitudinal branch AS.

G 142-50 is a hot route

down DAn

Gene

AC 13.38 +0.91 +0.47 200 20mm

AE 16.44 +0.79 +0.28 200" 2000

AP 17.00 + 0.74 + 0.24 200 2000

AF 16.76 +0.44 +0.55 2000  
20 June 2



AS 15.65 +0.74 +0.41 200

Nov 20<sup>42</sup>

AD 13.42 +0.83 +0.42 200" 207462

AA 13.15 +0.53 -0.02 20 Nov 62-

AB · 12.14 1.09 +0:75 207m 202" 62

A1

1408 + 59 + 09

7142-25A

VB 116

<u>14.00</u>	<u>+1.25</u>	<u>+0.83</u>	<u>July 6 62</u>
14.79	+0.63	+0.46	200" 13 July 63
14.84	+0.62	+0.40	" 14 " "
14.92	+0.63	+0.33	" 15 " "
14.92	+1.64	+0.35	" 16 " "
14.89	+0.63	+0.33	" 26 Aug 63

7142-2

10.64 +1.32 +1.08 J

10.64	+1.31	+1.20	26 June 60"
10.70	+1.30	+1.16	June 10 200"
10.73	+1.29	+1.14	June "
10.70	+1.35	+1.07	July 5 "
10.64	+1.33	+1.08	6 "
10.65	+1.31	+1.10	200" 13 July 63
10.69	+1.30	+1.08	} 200" 14 " "
10.71	+1.29	+1.08	
10.70	+1.30	+1.13	15 July 63 "
10.70	+1.32	+1.07	26 Aug 63

308  
103  
206



7142-1      10.13 +49 -01      J  
~~10.15 +0.49      00      26 July 63~~  
 10.11 +0.44 -0.02      June 10 62 200  
 10.12 +0.47      0.00      " 11 " "  
 10.14 +0.49 -0.01      June 26 62 500"  
 10.12 +0.50 -0.01      July 5 62 200  
 10.12 +0.48      0.00      6 " "  
 10.05 +0.48      0.00      13 July 63 200"  
 10.12 +0.49      0.00 } 200" 14 July 63 "  
 10.14 +0.48      0.00 }  
 10.14 +0.49 -0.01      " 15 " "  
 10.12 +0.49 -0.01      " 16 " "

6802-44 15.32 +1.11 +0.73 6 Aug 64<sup>2004</sup>

-ZZ 16.57 +1.08 +0.74 6 Aug 64

-~~WW~~ 16.29 +1.19 +0.69 6 Aug 64

-WV 17.54 +1.40 +0.46 6 Aug 64

16.60 +1.21 - 7" "

9.09 + 1.07 + 79 J

6862-1      9.10 + 1.09 + 0.75 } 12 July 63 200"  
                 9.04 + 1.08 + 0.84 }

9.10 + 1.08 + 0.79      13 July 63 200"  
~~9.50 + 0.25 + 0.1~~

9.02 + 1.09 + 0.75      14 " "

9.07 + 1.08 + 0.79      15 " "

9.09 + 1.08 + 0.79      31 July 64 200"

6802

E 16.23 +1.10 +0.74 31 July 2000

F 14.43 +1.12 +0.85 31 July 2000  
14.50 +1.08 +0.84 2 Aug 2000

G 15.12 +1.70 +1.18 31 July 2000

C 15.68 +1.08 +0.64 31 July 2000

D 16.17 +1.02 +0.80 2 Aug 2000

XX 17.55 +1.38 +0.75 2 Aug 2000

June 23 AM

22:46 1287 +160 +1.12  
22:53 1250 +160 +1.09  
23:01 1288 +165 +1.06  
23:09 1287 +167 +1.07  
23:17 1288 +165 +1.02  
23:25 1288 +164 +1.11  
23:33 1289 +160 +1.03  
23:51 1288 7162 +1.05  
23:59 1289 +169 +1.04  
24:07 1289 +169 +1.04

00:14 1288 +165 +1.12  
00:36 1291 +163 +1.08  
00:44 1295 +158 +1.02  
00:51 1293 +159 +1.05  
01:36 1293 +162 +1.09  
01:48 1294 +163 +1.00  
02:19 1311 +162 +1.00  
02:26 1323 +155 +1.09  
02:34 1344 +156 +1.00  
02:42 1363 +164 +1.00  
02:46 1364 +160 +1.00  
02:50 1361 +155 —  
02:53 1355 +152 —

101-14 Jun 22 20:51 12.87 +1.61 +1.13

20:55 12.85 +1.62 +1.18

21:01 12.87 +1.60 +1.04

21:19 12.87 +1.56 +1.19

21:48 12.88 +1.64 +0.86

21:53 12.88 +1.56 +0.98

22:07 12.89 +1.59 +1.04

22:16 12.90 +1.60 +0.92

22:25 12.89 +1.57 +1.15

22:33 12.88 +1.63 +0.92

22:39 12.89 +1.62 +1.05

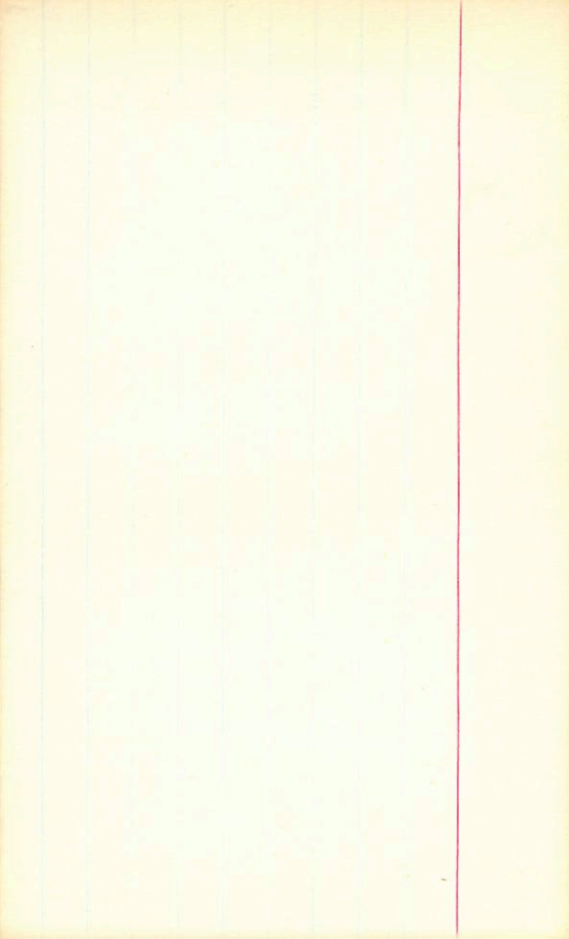
6522

A	11.62	+0.21	+0.12	1 Aug 64
X	13.11	+1.30	+1.22	31 July 64 200"
XX	13.50	+0.48	+0.20	1 Aug 64
B	15.82	+1.79	—	31 July 64 200"
D	10.17	+1.72	+2.03	1 Aug 64 200"
C	12.30	+1.64	+1.79	31 July 64 200"
B	14.52	+1.79	—	31 July 64 200"
S	16.15	+1.28	—	31 July 64 200"

c

11.23 +0.23 +0.14 24 June

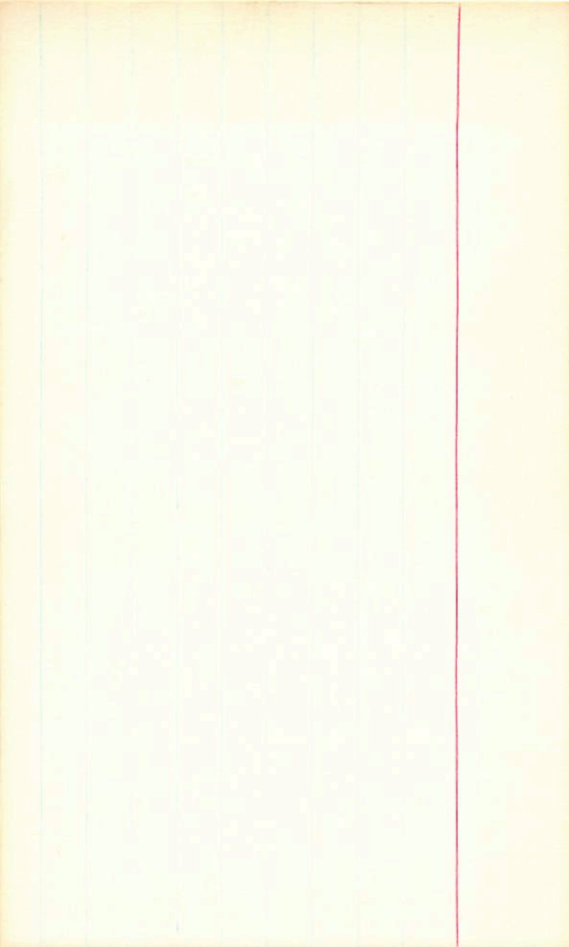




-2

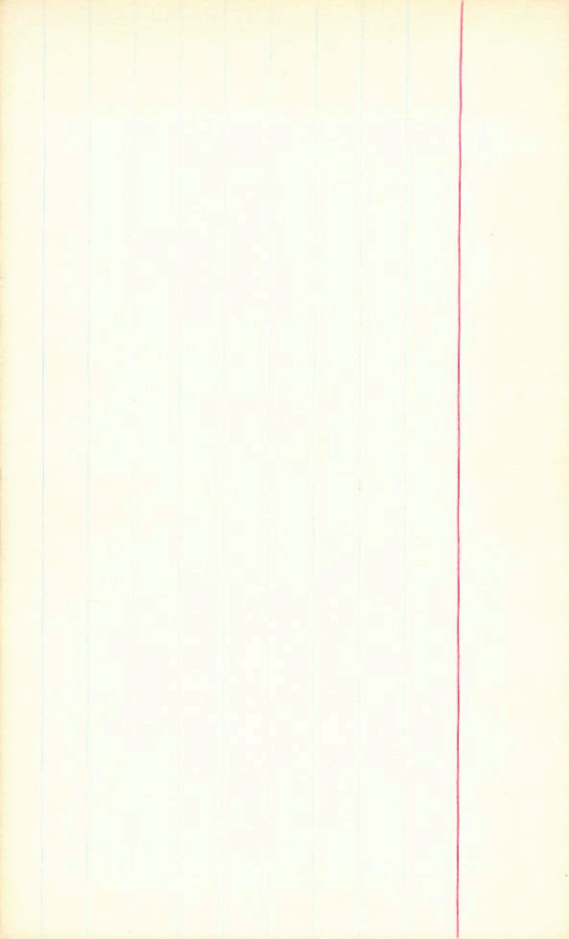
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1358 +0.68 +0.185 24 June 70



13

13.43 + 0.635 + 0.105 24 Jun 70



723  
56

268  
48

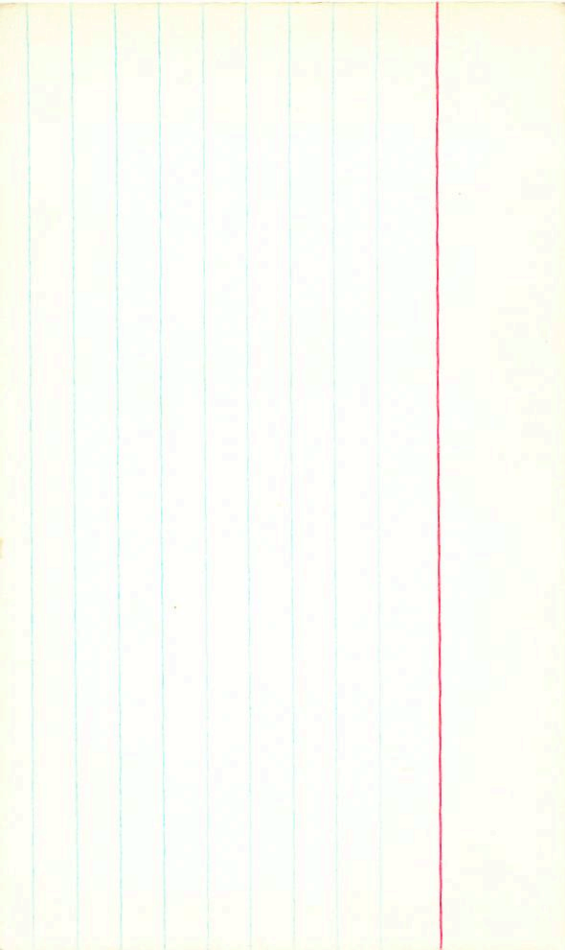
3410 4.14 -721 4886 +281 2.352 262.25

419 -725 +505 5054 +250 2.354 292.25

~~417 481 310 2344~~

\* 024 140 1152

~~8-025 422 4105~~



$4.85 - 0.05 + 1.58 = 1.024$   
 $2.897$   
 $3314 \quad 8 \quad 24.27 \quad -3 \quad 49.5$

$3.88 \quad 010 \quad 133 \quad 1033 \quad 2.864 \quad 19 \text{ Jun } 23$   
 $3.89 \quad 041 \quad 124 \quad 1057 \quad 2.806 \quad 20 \text{ " "}$   
 $3.50 \quad \underline{-010} \quad 120 \quad 1720 \quad 2.875 \quad 23 \text{ " "}$   
 $4014 \quad 134 \quad 1045 \quad 2.846$



3314 8 24 27 -3 49.5

Std 3485-005 +158 1.024 2.897

③ Jan 1973 3.89 +134 1.045 2.844<sup>20</sup>

~~③ Jan 1975 3.92 +160 1.022 2.376~~

③ 1975 3.92-678 984 1.65 2.386