

19545 3 05.7 -28 01 ASZ +12.4 6 Cmp

FD 1131

GL 3747

6.18 H0.16 (1.58)

$$\begin{array}{r}
 42.630 \\
 + 2.370 \\
 \hline
 45.000
 \end{array}$$

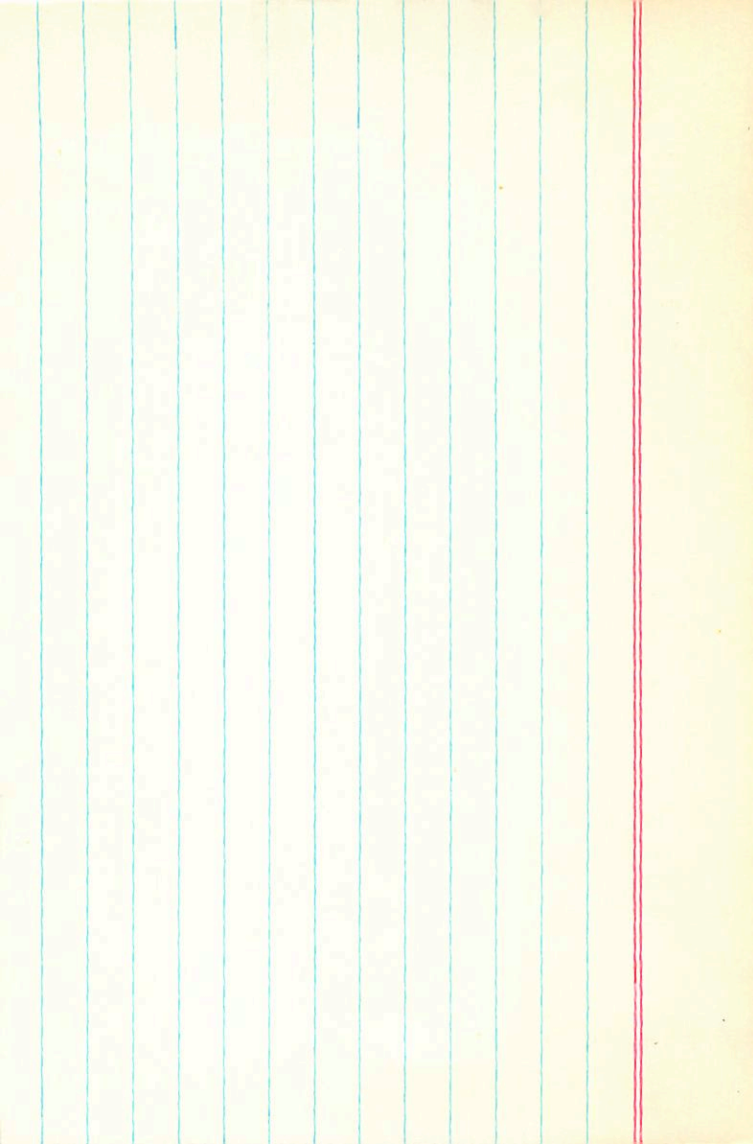
$$\begin{array}{r}
 +0.0055 \pm 3.1 \\
 -0.017 \pm 3.1 \\
 -0.004 \\
 18.85 - 1502.0 \\
 + 78 \\
 \hline
 18.07
 \end{array}$$

$$\begin{array}{r}
 +0.0052 - 0.10 \\
 +0.0054 - 0.10 \\
 \hline
 +0.0106 - 0.20
 \end{array}$$

$$\begin{array}{r}
 42.547 \\
 - 3 \\
 \hline
 42.544
 \end{array}$$

$$\begin{array}{r}
 18.48 \\
 + 24 \\
 \hline
 18.72
 \end{array}$$

$$\begin{array}{r}
 18.48 \\
 + 24 \\
 \hline
 18.72
 \end{array}$$



19254  
+740135

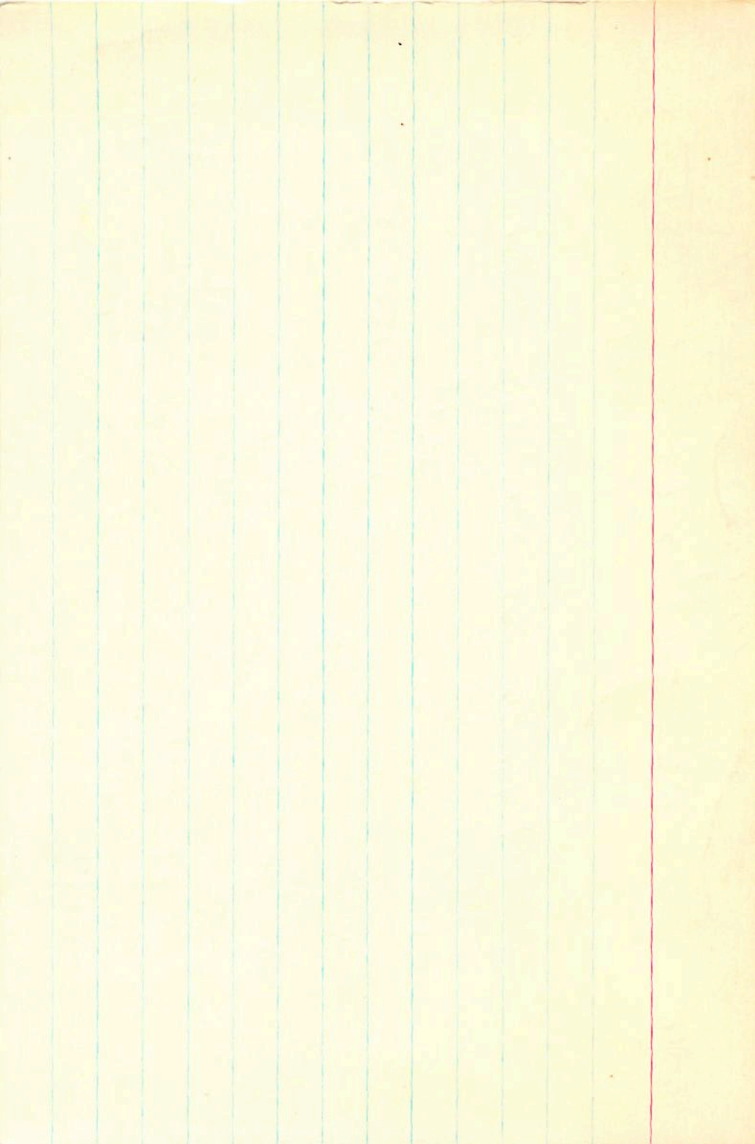
1744

3 06.5 +74 53

<sup>2c</sup>  
+725 +52c

+025 -098 QP





④  
-0066 -011  
42 649 445

3 06.8

16429

1640375

222 925

196 642

43.13.1 4.0

255 196 642

405

0 230 815

534

MV 22.05

-0077 -013

2752

⑩

1554 4791  
1001 2032

43.241

+7 268

45.07

24

-00739 -0133

27.18

-052 -011

0552  
0049

43.091

200 250

5245

211' 2

26.72

4115

26.72

0152

3.58

Pe = -10.9

WPR

3 08.1 +39 25

+6.76

14R947

~~4.62~~ +0.87<sup>6</sup> K0.11

+1.10<sup>6</sup>

29

~~3791~~  
19656

474  
474  
18964  
18963

474  
474  
948  
948  
10

1752  
3791

+0.41  
+0.031

+0.41 -0.2866

548 -061 833

-667 568 480

504 820 -271

+1065 +6064

-1300 -0594

+0980 -0857

1129

-1894

+0123

+10.7 +5.6

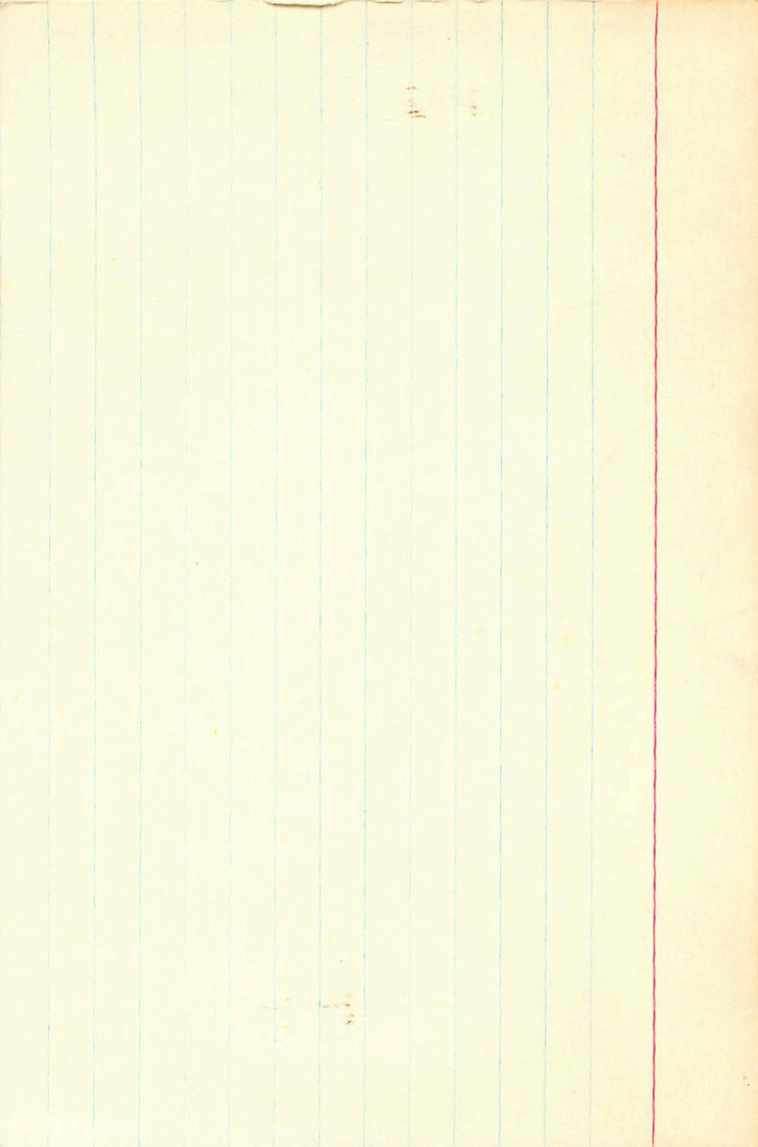
-18.0 +3.2

+1.2 -1.6

+16.3

-14.8

-0.4





20052

3

09.2

-62 33

+26.3  $\pm 1.3$

$c_1(5)$

8.32 + 57 60 IV

8.31 + 0.58 70.08 (2)

8.12 + 0.19 (2)

-047 -109  $\text{deg/g}$

44, 59/31)

19934 3 09.4 -15 07 7.9 g 65+35c

755051

1766

017502-14

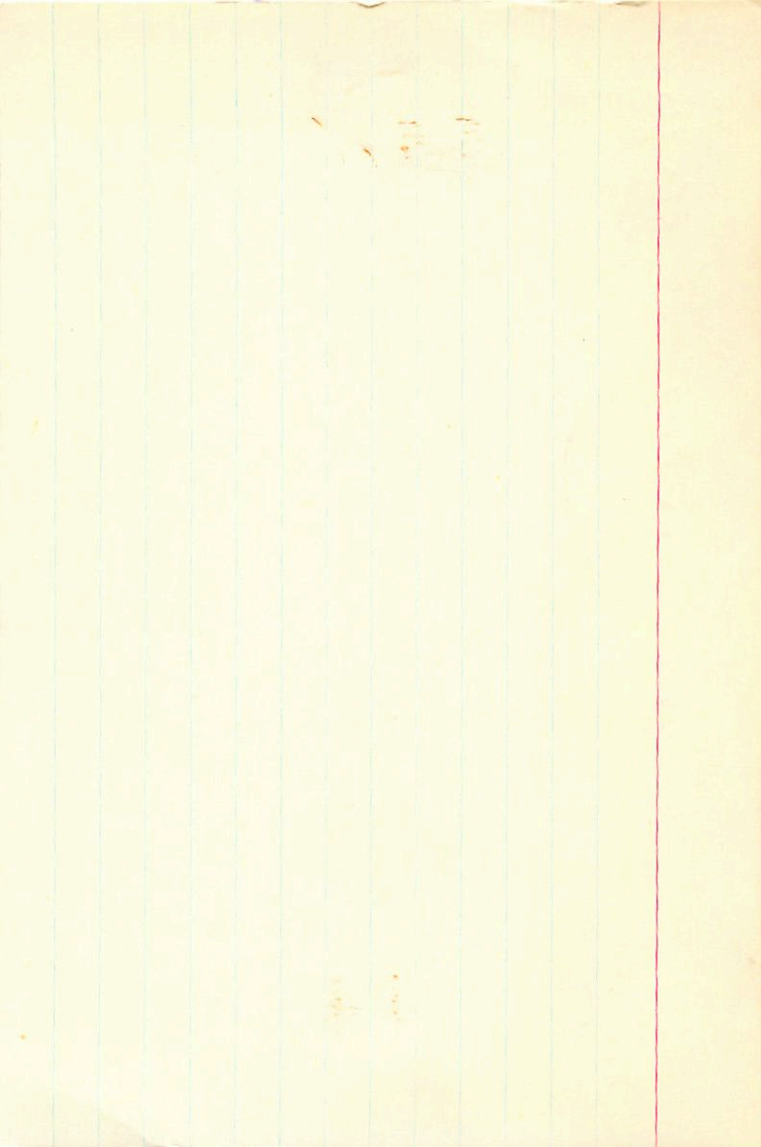
21 + 2

$$\begin{array}{r} +0035 \\ +050 \\ \hline \end{array}$$

Volunteers 40033

*W. H. W.*

-002 Cape 125'



+470787

1-X Per

3<sup>00</sup> 09.9

+477 55

+270

7.40  
7.45  
7.50

+2440rb

+046-065 AGR3

-045-063

+271 Dubit

+280 Dubit

55 -45

+055-063

11.15

+35



100

100<sup>33</sup>

+0051-070

+0054-041 Gm 123

8522-8744  
5232-4733  
8522-8744  
5232-4733  
079  
-020  
0046

545 0849  
25 -0310

10.5

$$\begin{array}{r} 5-3.313 \\ \underline{314} \\ 002 \end{array}$$

$$\begin{array}{r} 2.2 \\ +0065 \\ \hline 25.2 \\ -066 \pm 11.0 \end{array}$$

$$\begin{array}{r} +0057 \\ \hline -067 \end{array}$$

$$\begin{array}{r} 23.12 \\ \underline{3.56} \\ 960 \end{array}$$

$$\begin{array}{r} +0061.5 \\ \hline -067.5 \end{array}$$

$$2465$$

$$+00602 -0650$$

$$+0605'$$

$$\boxed{+059.5 -068}$$

$$\begin{array}{r} 0850 \\ -0822 \\ \hline -146 \end{array}$$

$$0104$$

$$\begin{array}{r} 22.61 \\ \hline 4.50 \end{array}$$

5

$$\textcircled{08.50}$$

$$\begin{array}{r} 63.211 \\ +13 \\ \hline 324 \end{array}$$

$$\begin{array}{r} -10 \\ \hline 22.51 \end{array}$$

$$+0058 -041 \quad 8.44$$

800.00

800.00

800.00

800.00

800.00

800.00

800.00

800.00

800.00

800.00

800.00

800.00

800.00

800.00

800.00

800.00

800.00

800.00

800.00

800.00

800.00

800.00

800.00

800.00

800.00

800.00

21

867

3.150  
47.900  
0.670  
-68.000  
5.100  
105  
27.000

0.543  
-0.185  
0.819  
175.529  
40.491

-0.668  
0.496  
0.555  
-302.379  
-16.678

0.509  
0.848  
-0.146  
-164.754  
-21.197

54

2.8.19

HRG 56

3

9.9

+47

59

+47

9.12.1

5.90

E.S. Weiler / RASP 86,56 1474

$$\gamma = +24.6$$

G 0 II  $m_{2, \text{km}} \approx 1$   
100 II

+022 -017 W<sub>350</sub>  
+015 -017 A603

~~+022 -017~~

+0022 -017 W<sub>350</sub>

+030 -021

+1

+031 -020

+020 -017

M. Pinzfeld / RASC 67,23 1574

$$\gamma = +27.1$$

$$m_V = +3.6 \text{ per cent}$$

14 comparison  
stars

G 5 II  $m_{2, \text{km}} \approx 1$   
G 5 IV



55



956.000\*

3.000\*

9.900\*

000\*

20121

-440335 3 10.7 -44 36

+344

cap

6.5"

R

5.92 +44 (1.59)

+344  
0.0336 554

+095

+089 000 62

5006 N30

5.003 62

002

739673 -702 712 +089 000 +34 0 -24 0  
 -066 0 060 0 -313 284 124 +16 +18 0336

$$\begin{array}{r} +125 +126 -24 \\ \boxed{+14 -15 -37} \end{array}$$

$$\begin{array}{r} +15 +26 -24 \\ \boxed{+13 -23 -25} \end{array}$$

-0.145  
 -164.951  
 -21.218

54

23-2004  
shot lead

shot lead

1551

20177 3 10.7 56 35 214 + 147 66.5

7.20 + 1465 + 180  
6.45 + 059 22

42.589  
- 109  
480

6.07  
7.2  
5.2  
7.7  
7.85

3.214  
39.244  
4.554  
0.28  
582

2004 + 1044 66 949  
20028 043 774  
20026 + 1042

200305 + 045 774  
2025 + 029 + 1042

20028  
42.5  
585  
15.24

10028 + 1043  
110 42

10038 + 1045  
110 42

10032 + 1048  
584 + 104  
1044

10029 + 1045  
584 + 104  
1044

10023 + 100  
10031

21.42  
- 1.91  
23.33

6.02  
5.22  
24.7

59.23  
38.48  
21.25  
21.50  
21.80

21.55  
+ 178

20.7  
- 59  
21.29

1946.7

373

1927.8

550

35500.

 $+031 +045$ 

+46.5

35500

540	840	-022	+0793	+1792	+2585	+91.8	+40	-1.5
-667	412	-620	-0980	+0879	-0101	-3.6	-45	-41.2
512	-350	-784	+0752	-0746	+0006	0	-52	-52.1

637 56.

581

207

785

5

20177.000\*

3.000\*

10.700\*

-56.000\*

-35.000\*

0.029\*

0.042\*

7.850\*

371.535

66.500

0.242

-0.023

88.246

-0.010

-0.622

-45.207

0.001

-0.783

-51.677

56



h74

3

12.0

+26

4.8

5.75

at 18

Ad 18

1180  
549  
1190

841

46

888

105

133

133

-2511-

$$\begin{array}{r}
 +0008 \pm 23 \\
 +0001 \\
 -8 \quad 5-7 \\
 3 \quad 13.1 \\
 \hline
 20290
 \end{array}
 \quad
 \begin{array}{r}
 -0008 \pm 23 \\
 -010 \\
 6.8 \quad 9 \quad 12 \\
 +14.5-8 \\
 \hline
 1798
 \end{array}$$

$$\begin{array}{r}
 3991 \quad 5.795 \quad 1898.7 \quad -8 \quad 57 \quad 14.84 \quad 1891.9 \\
 \begin{array}{r}
 -041 \\
 \hline
 754
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 52.902 \\
 12.868 \\
 \hline
 5.017 \\
 7827 \\
 \hline
 745 \\
 5.764 \\
 \hline
 744
 \end{array}$$

$$\begin{array}{r}
 38.3
 \end{array}$$

$$\begin{array}{r}
 756 \\
 \hline
 +202
 \end{array}$$

$$\begin{array}{r}
 49.90 \\
 35.50 \\
 \hline
 14.40 \\
 14.40 \\
 \hline
 15.40 \\
 +42 \\
 \hline
 14.
 \end{array}$$

$$\begin{array}{r}
 73.99
 \end{array}$$

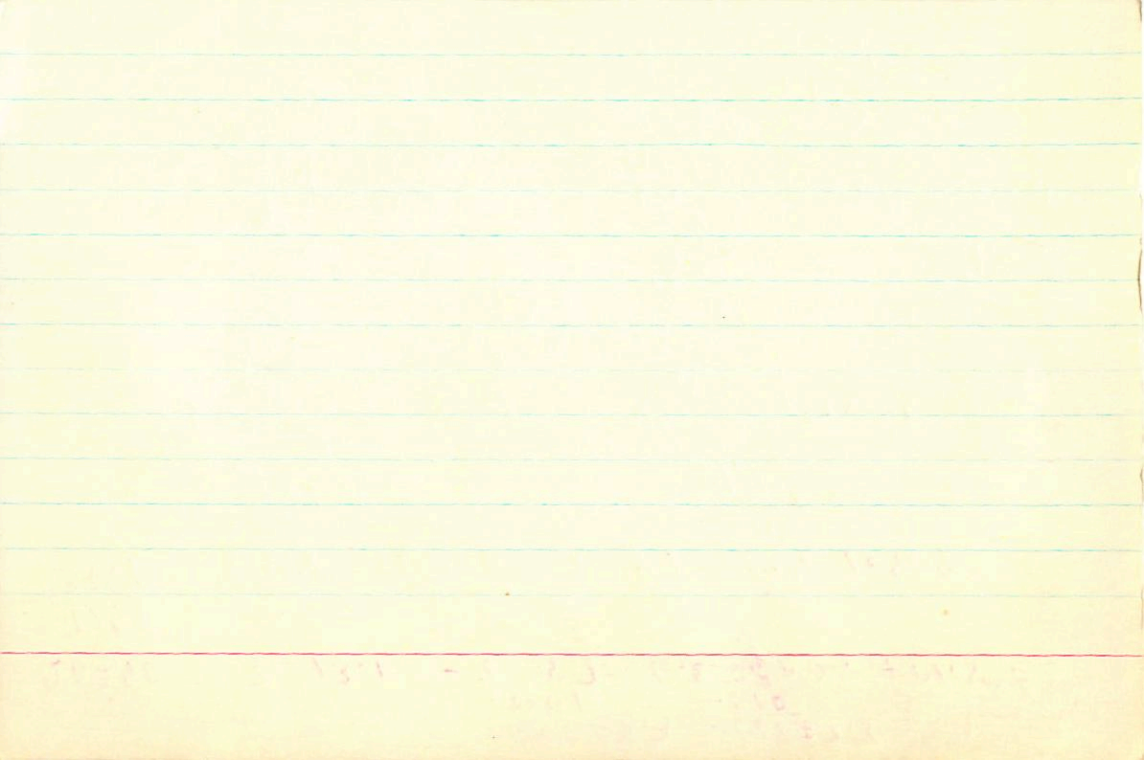
$$\begin{array}{r}
 37.0
 \end{array}$$

$$\begin{array}{r}
 1938.78
 \end{array}$$

$$\begin{array}{r}
 15.03 \\
 +334 \\
 \hline
 14.6
 \end{array}$$

$$\begin{array}{r}
 14.83 \\
 \hline
 14.45
 \end{array}$$

$$\begin{array}{r}
 45.1
 \end{array}$$



+110456

20278

3

13.3

+11

27

7.9

d60

+4418

C430

1801

+0131

+003

Cn50

N30

+1838

-0146

-3

+5

+180

-009

-966

+122

4w



20320

663899

3

13.4

-9 00

58 000 -72

HARDY

66-0.0004

+0.045

N30

0000

+0.045

0002

525

-667

528

557 614

733 -130

343 -777

-0075

+0095

-0075

+1252

+1563

+0732

+117746

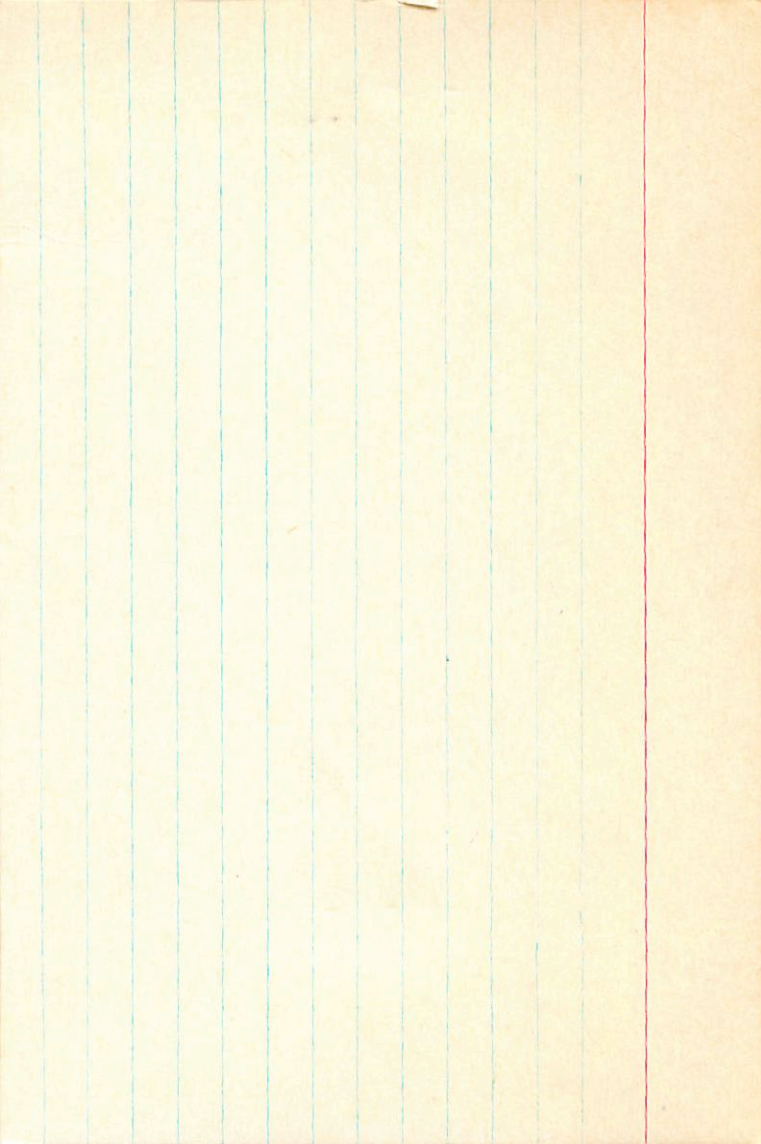
+1658+5.7

+0655+2.3

-4.3

-0.9

-5.4





137 188 887 2.794  
 3 13.4 209 00

-456  
 Alt  
 -72

148584 4.80 +0.23 Am  
 (1.56)

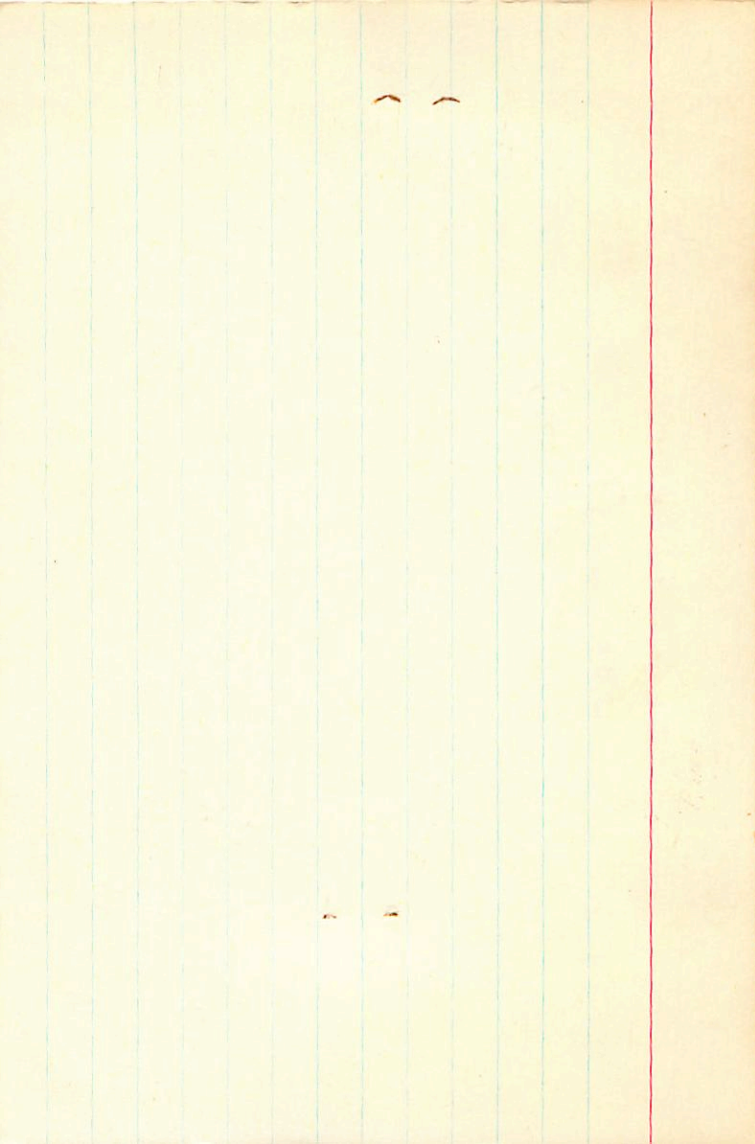
-004 +048 GC  
 000 +045 M30  
 -004 +045 GC → 000  
 -002 +045

31.6 ps ✓

1.4  
 000 - 002

1529. 1857 134 1242	-0050 + 1252	+1202	+3.8 - 2.8	+1.0
-607 + 134 1242	+0063 + 1566	+1629	+5.1 - 10.6	+5.6
	-0050 + 0729	+0679	+2.0 + 3.5	+5.6





HRG28

3 13.5

+3 2° 00

5.92

+192

-015 -107

0 +1  
-015 -106

Wala (18) Van



+30516

6431

3 13.5

+30 5-1

9.7

dlr

+366

1807

6-7-81

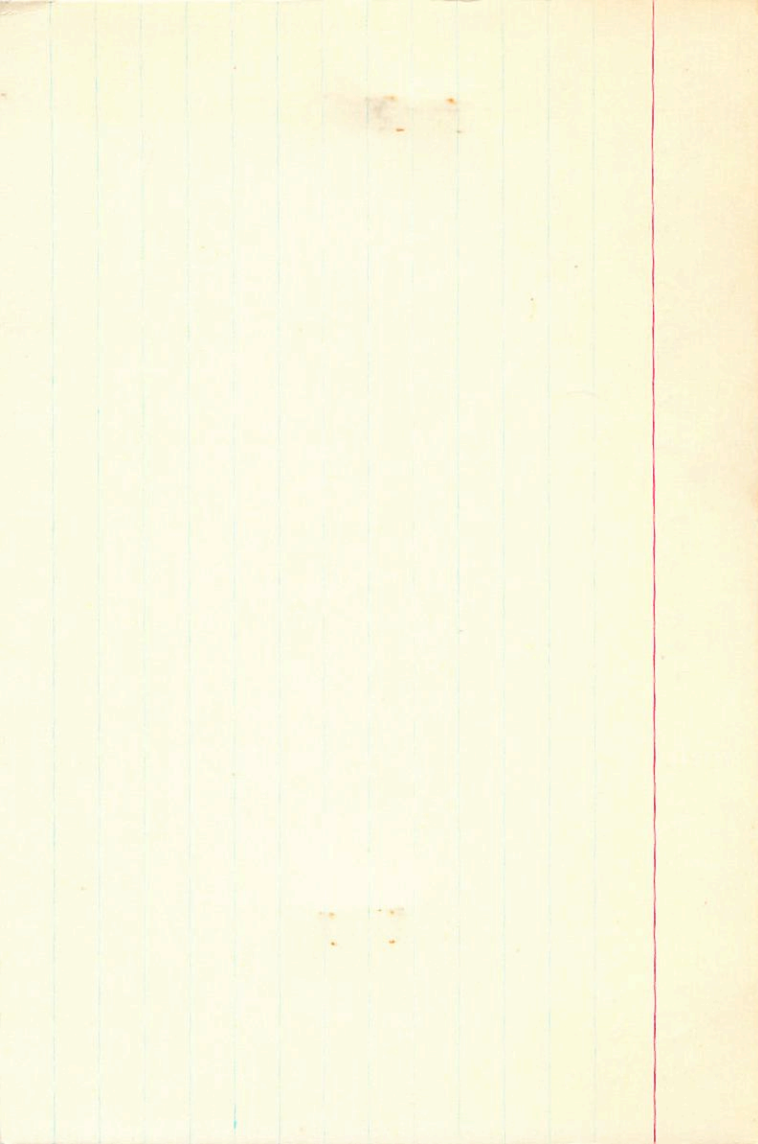
+15 -124

2946(4)

+3669D

58(33)

44



$$\begin{array}{rclcl}
 146n & & -0004 \pm 2.2 & +052 \pm 2.3 \\
 20395 & 3 & 14.2 & -0005 & +057 \\
 & & & -09 & 20 & 6.2 \text{ dF4} & -5.36
 \end{array}$$

1811

$$3918 \quad 10.201 \quad 1902.1 \quad -9 \quad 20 \quad 18.42 \quad 1899.6$$

$$\begin{array}{r}
 019 \\
 \hline
 1220
 \end{array}$$

$$\begin{array}{r}
 -2.62 \\
 \hline
 21.04
 \end{array}$$

$$\begin{array}{r}
 57.520 \\
 12.680 \\
 \hline
 10.200
 \end{array}$$

$$\begin{array}{r}
 217 \\
 -42 \\
 \hline
 175
 \end{array}$$

405

33.9

$$\begin{array}{r}
 52.23 \\
 33.78 \\
 \hline
 18.45 \\
 -1.04 \\
 \hline
 19.49 \\
 +42 \\
 \hline
 19.07
 \end{array}$$

1432.94

$$\begin{array}{r}
 72.00 \\
 36.00 \\
 \hline
 \end{array}$$

36.4

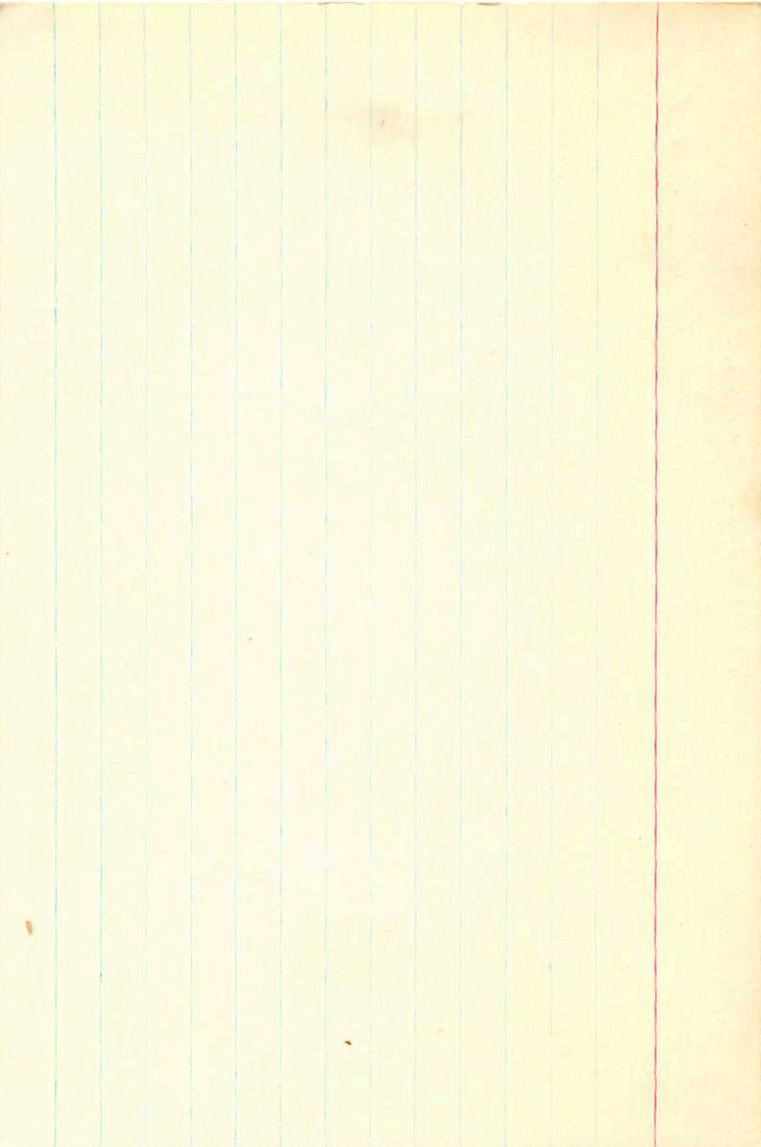
$$\begin{array}{r}
 10.225 \\
 +2 \\
 \hline
 230
 \end{array}$$

$$\begin{array}{r}
 202 \\
 \hline
 -0.018
 \end{array}$$

$$\begin{array}{r}
 19.18 \\
 +35 \\
 \hline
 15.83
 \end{array}$$

1439.06

$$\begin{array}{r}
 18.95 \\
 +2.09 \\
 \hline
 \end{array}$$



20395

3 14.2 -9 20

dfy

HR988

GC3918

6.14 +40 -06 C

146in

1257.162 .466 @SPC 2660 ECT

241

[m] 208 +10

[C] 45 -

2.70 +1.3 +7.3 +6.4

+12.6 +191 +67



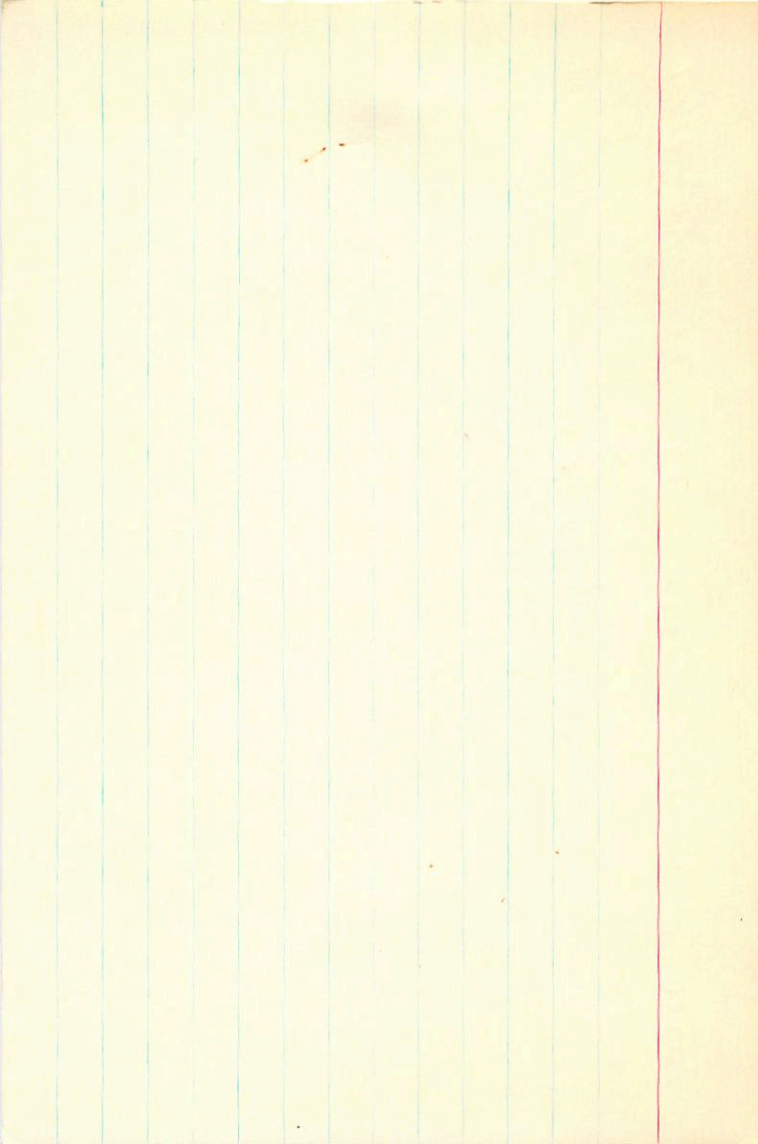
20500    3    15.5    +12    39    7.6    A0    +16.1

1822

3941

+0007    26    -008    N30

-000159 +005 +4.9    Acc 0005 N30



20619

3 16.5 -03 01

d62 +20.68w(3)

GC3941

W1832-

7.00 +0.63 +0.11  $\Sigma 95(2) 18''$   $S=06$

7690

7.10 +65 +1.71

-30534

From  
Oleum ①

by

7.05<sup>12.15</sup> 405 205 368

(230)

+252 -105 GC

+20 -20 -7 060

+24

(327) (287)  
+0168 -104

3.25

-3

244

-108

168

+20.6

2474

(249-108)

GC 504 C(5)

+0170 +0168 ±8.0 -105 ±7.3  
 +0167 167 -090 103

756 654 -052 555 +252 -101 +20.6 005 -1 -457  
 -191-004 165 003 -919 763 +20.6 +13 +16 035

$$\begin{array}{r} 30.203 \\ +1.16 \\ \hline 31.363 \end{array}$$

$$\begin{array}{r} 24.69 \\ +1.16 \\ \hline 25.85 \end{array}$$

$$\boxed{\begin{array}{r} -11 +36 -14 \\ +24 -32 -3 \end{array}}$$

$$\begin{array}{r} 24.586 \\ -870 \\ \hline 1748.2 \end{array}$$

$$\begin{array}{r} 122.78 \\ +5.46 \\ \hline 128.24 \end{array}$$

$$\begin{array}{r} 29.016 \\ -870 \\ \hline 28.146 \end{array}$$

$$\begin{array}{r} 41.15 \\ 34.6 \\ \hline 75.75 \end{array}$$

$$\begin{array}{r} 17.32 \\ +5.46 \\ \hline 22.78 \end{array}$$

$$\begin{array}{r} 1434.00 \\ 19.94 \\ \hline 1453.94 \end{array}$$

$$\begin{array}{r} 39.8 \\ 37.8 \\ \hline 77.6 \end{array}$$

$$\begin{array}{r} 11.923 \\ 39.8 \\ \hline 51.723 \end{array}$$

$$\begin{array}{r} 14.170 \\ 15.452 \\ \hline 29.622 \end{array}$$

$$\begin{array}{r} 64.1 \\ +6.6 \\ \hline 70.7 \end{array}$$

$$\begin{array}{r} 49.94 \\ 30.02 \\ \hline 79.96 \end{array}$$

$$\begin{array}{r} 160 \\ 20.9 \\ \hline 180.9 \end{array}$$

$$\begin{array}{r} 20.80 \\ 2.48 \\ \hline 23.28 \end{array}$$

$$\begin{array}{r} 29.036 \\ -6.3 \\ \hline 22.736 \end{array}$$

$$\begin{array}{r} 54.543 \\ 30.142 \\ \hline 84.685 \end{array}$$

$$\begin{array}{r} 20.4 \\ 20.4 \\ \hline 40.8 \end{array}$$

$$\begin{array}{r} 32.25 \\ 21.50 \\ \hline 53.75 \end{array}$$

$$\begin{array}{r} 1441.52 \\ 2.48 \\ \hline 1444.00 \end{array}$$

$$\begin{array}{r} 20.41 \\ +2.1 \\ \hline 22.51 \end{array}$$

$$\begin{array}{r} 21.37 \\ 21.37 \\ \hline 42.74 \end{array}$$

14R991

3

15.6

+34 02

+1.8e

4.64<sup>#</sup>

+450<sup>#</sup> N<sub>2</sub>II

+004 -012-6e

+006 -021 N<sub>2</sub>3

+005 -017

gg

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35



3.250

-3.000

249.000

-108.000

1.650

21.87

20.600

0.525

0.520

0.674

352.929

21.432

-0.667

24.90

0.40

1.50

22.7



993 +112 0 15.9 -28 58 +446 ③ +34

+182-10

3.8

5.48 202- 175 751 2.785

59

3.250  
-29.000  
208.000  
-10.000  
3.900  
60  
0.000

0.525  
0.762  
0.378  
416.643  
25.105

-0.667  
0.645  
-0.373  
-606.042  
-36.518

0.528  
0.057  
-0.847  
452.695  
27.278

59

20631

3 16.4 18 44 dF2

40997

5.20 +08 <sup>00</sup> ~~100~~ C +00915

603559

585 +0345 -0.03①

5.24 247 155 554 2.704

585 1248 .152 .606 2.722(2) 1,314,10,1

[m] 147 #20

254

[u] 556 +90 +2.3  
+110

180 Jan Wed

525 685 505  
-667 700 -255  
528 203 -8253210 -1818  
-4078 -1858  
3228 -05391392  
-4936  
2459

+9.1

-4.6

+14.8

247

+18-c 50/47

+5089 -060 N30

+5094 -089 50

+5091 -056

+129

+34.4 (4)

20600

3

16.6

+19

32

260

+33.58

+190505

8.0

W1535

+095 -031 Y

$\frac{+3}{098} \frac{+4}{-027} \rightarrow Ce$

+097 -025 Reity

$\pm 5 \quad \pm 5$

4.60

1/1000

+47.3 +312

+520 +220 +825

-25.2 -523

-667 +708 +232

-0.5 +244

+533 +671 -515

756 654 334 543 +097-025 +33.5-008 +11-114

-073 006 063-005 -32.2 327 +31.6 +21 +24

~~77~~

~~023~~

0/15

+5 +40 +6

-1 +46 +3

+41-18-5



$$\begin{array}{r}
 +0335-53.5 \\
 +067 \pm 3.0 \\
 +061 \\
 \hline
 +0347 \\
 \hline
 21024 \quad 3 \quad 17.2 \quad 34 \quad 5.5 \quad F2 \quad +19.46
 \end{array}$$

1844

$$3977 \quad 9.907 \quad 1907.5 \quad -77 \quad 34 \quad 17.31 \quad 1906.9$$

$$\begin{array}{r}
 1424 \\
 \hline
 8383 \\
 +0342 +064 \quad -2.89 \\
 \hline
 20.20
 \end{array}$$

$$\begin{array}{r}
 +0345, +060 \text{ day} \\
 +064 \\
 \hline
 +0379 \quad +066 \text{ w } 30 \\
 \hline
 +0360 +065
 \end{array}$$

$$\begin{array}{r}
 +11 \\
 -25 \\
 -8
 \end{array}$$

$$+296$$

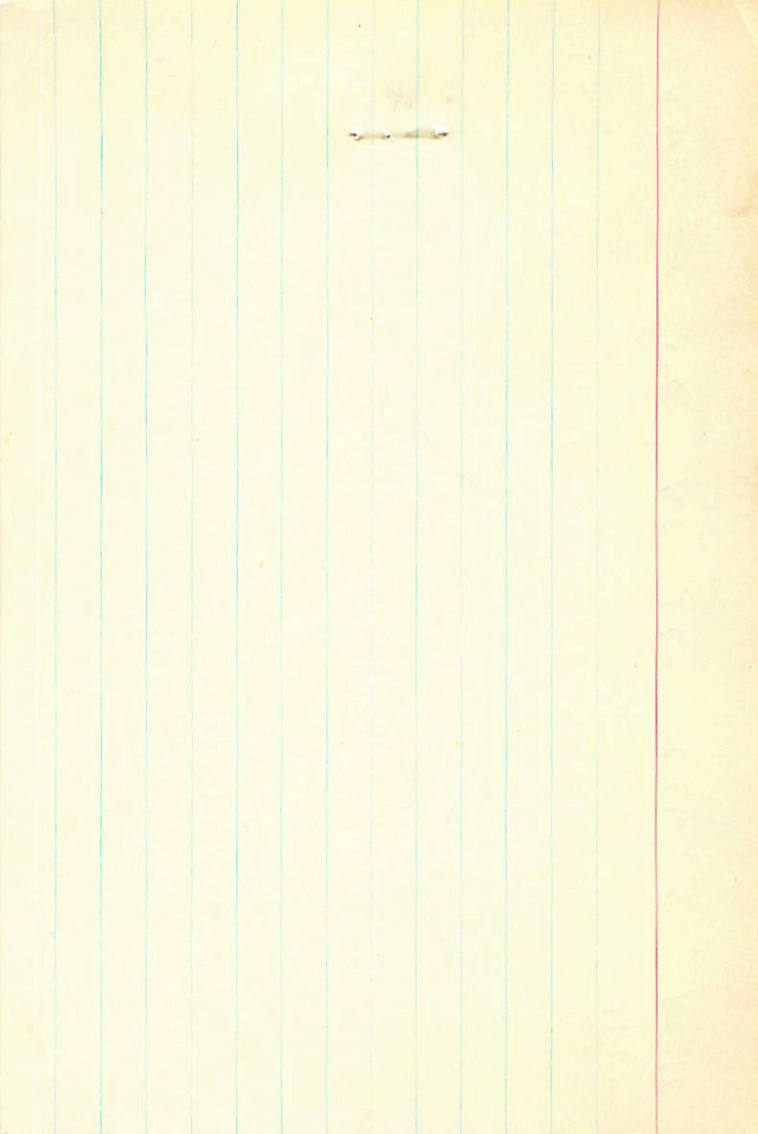
$$+1.20$$

$$31.4 \text{ ps.}$$

$$\begin{array}{r}
 +1103 \\
 +114 +061 \\
 \hline
 518 \quad 793-319 \quad +2446 \quad 2443 \quad +5589 \quad +170-6.2 \\
 -647 \quad 142-731 \quad -3794 \quad 0437 \quad -3357 \quad -10.5-14.2 \\
 10.04 \quad 535 \quad -591 \quad -602 \quad +3043 \quad -1821 \quad +1222 \quad 17.24 \quad +3.4 \quad -11.7 \\
 1955.3
 \end{array}$$

$$1657 \quad (1.7)$$





20536 3 17.2

-0005 ± 11.3  
-0012  
+61 49 6.6 B8 -7.36  
+6(3)  
+131 (1)

1843

3976 9.674 1907.1 461 49 9.62 1906.9

$$\frac{0.21}{.69} = .3$$

$$\frac{2.07}{11.69}$$

$$\begin{array}{r} 5.80 \\ 3.542 \\ \hline 9.341 \end{array}$$

1318

(29.1)

$$\begin{array}{r} 42.4 \\ 30.25 \\ \hline 72.65 \end{array}$$

1426.6

$$\begin{array}{r} 9.614 \\ 9.614 \\ \hline 19.228 \end{array}$$

$$\begin{array}{r} 9.614 \\ 9.614 \\ \hline 19.228 \end{array}$$

$$\begin{array}{r} 12.68 \\ 659 \\ \hline 036 \end{array}$$

$$\begin{array}{r} 12.71 \\ 10.94 \\ \hline 23.65 \end{array}$$

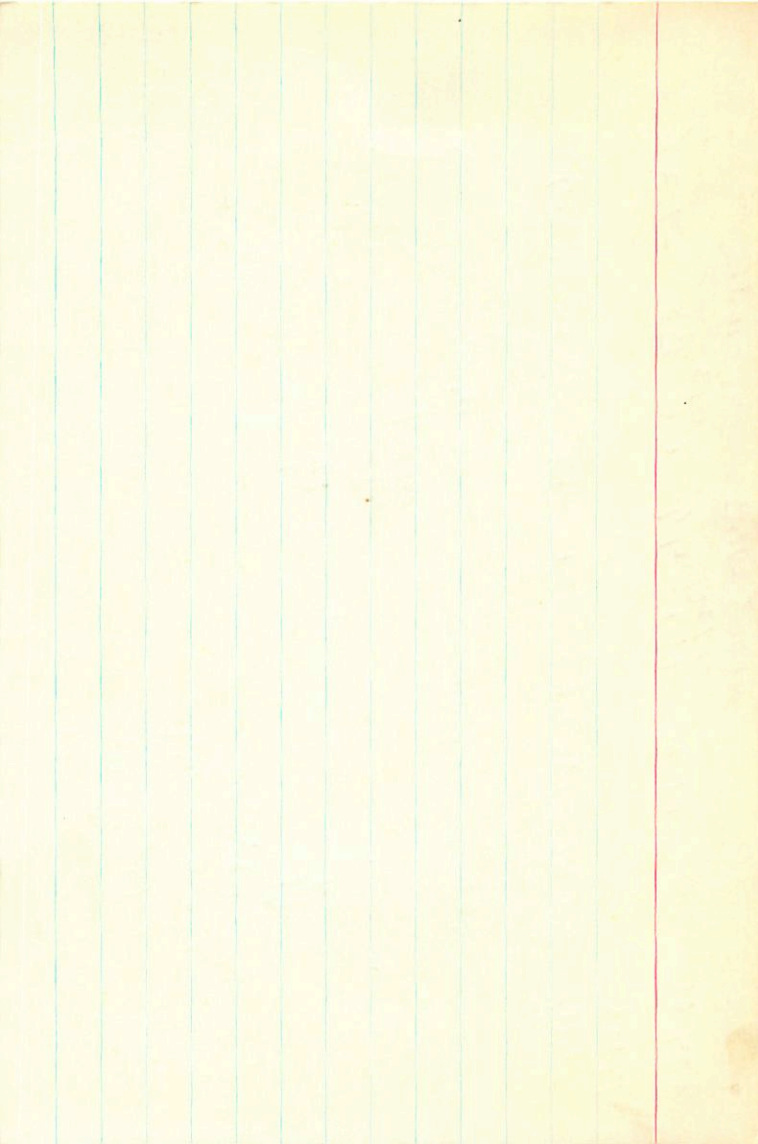
$$\begin{array}{r} 11.30 \\ 11.39 \\ \hline 22.69 \end{array}$$

$$\begin{array}{r} 11.23 \\ 11.24 \\ \hline 22.47 \end{array}$$

$$\begin{array}{r} 1945.78 \end{array}$$

$$\begin{array}{r} 724 \\ 36.2 \\ \hline 29.3 \end{array}$$

$$\begin{array}{r} 11.26 \end{array}$$



843

20888

60394

BIMM

3 17.4

~67 06 +237 0 +231 (4) C5

+20 55th Van

6.04 +0.13 (1.57) A32

24.624 1888.9

$$\begin{array}{r} 673 \\ 23.957 \end{array}$$

71600

16.588

$$\begin{array}{r} 24.188 \\ 111 \\ \hline 299 \end{array}$$

+342

+0110 ±5.3

+0087

$$\begin{array}{r} 1094 \\ +0105 \\ \hline 11059 \end{array}$$

$$\begin{array}{r} 11058 \\ +1001 \\ \hline 12059 \end{array}$$
+010  
+1

+011

+011 ±4.7  
+010

24.60 1884.5

$$\begin{array}{r} -72 \\ 30.32 \end{array}$$

56.53 19280

26.90

$$\begin{array}{r} 29.63 \\ -25 \\ \hline 24.89 \end{array}$$

$$\begin{array}{r} 24.89 \\ +.44 \\ \hline 25.33 \end{array}$$

20217

3 12.8 +12 10 of 15 +45.3

+110462

7.3

1950

+6098 +144 +017 ~~Grav~~

+152±8 +012±6 ✓

-3

+5

+149

+017

?

$$751650 \quad 211977 + 144 + 017 + 4533 \quad 0.004 + 10 \quad \underline{+756} \\ +079$$

$$-106-003 \quad 094003 - 526 \quad 431 + 44.3 + 29 + 33$$

$$+16 + 44 + 12 \quad 04.$$

32Pm

3 18.1 +43 09

-7 2

HR1002

4.54 \* 0.00 "

$\sqrt{A_{24}}$

36

-057-001 66

-057-000 663

022 160 1024 2403

$\sqrt{-0574}$  000

260650 684 730 -054 000 -7 0 -5 0

0410-0350 194-166 -5.1 -3 -4 02

$$+7-12-5$$

$$\boxed{-13+5-4}$$

015

$$+10-15-5$$

$$\boxed{-14+8-9}$$



+7.7 (5)

14R1016 3 18.2 -23 44 96.3 +8.68

W1860

57.52 +0.88 +0.59 68.11

H0208501

-021-02666

-022-027

764 646 -405 415 -022-027 +8-1 011-3-115  
017\_008\_014 007 047\_104 +13 +4 +5 008

+10-8-18

714-6-16

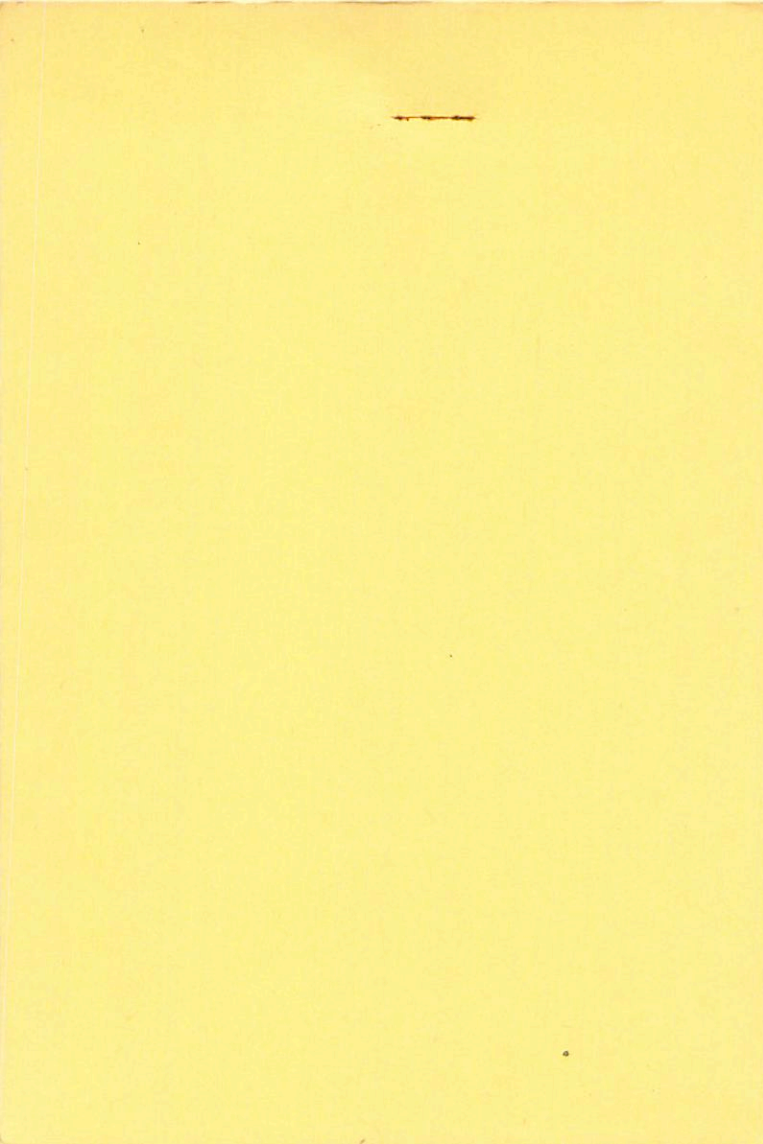
RW Per

03 19.3

+41 09

+005-016 Clarke

John  
H. H. H. H.



210603

Let's var #4 in M4 M30 = 3.4  
-4.4

VW 13 19.3 21 38 156.0 var

b = -560 E = 403

8.8 + 13.5 + 8.2  
+ 1.35  
+ 1.15 Max

8.14 248  
35  
26  
10  
49.0

7074 + 010  
+ 76 + 12  
1000 + 022  
1076 + 020  
1200

510 710 484 + 2674 + 75.5  
- 667 682 - 294 - 1818 - 46.6  
544 171 - 822 + 2063 + 2241 - 128.2

5.8 3000 3.000  
8.9 57000

2.5 knot  $\frac{1}{2}$  = 3.1  
log<sub>10</sub> - log<sub>10</sub> = .72

174

973  
815

7.4 1000 3.000

10.6

547  
2453

5.41

4.4  
6.2

1000 3.0  
190 27575

1000 5.13  
358 4.18

910 582  
244 132  
284 516 503

4.5-3  
86

3.6

1000 30  
2569

1000 3.0

4.55

417  
411

457  
332  
345  
505  
609  
246  
739

3.45

4.50

387  
381  
181  
521

121  
121  
121  
121  
121  
121  
121

-4.6

4.54  
36

12

8

503

1001

12.4

4.55  
4.55  
4.55  
4.55

263

5.78

44952



0.000\*

3.000\*

19.300\*

-21.000\*

-33.000\*

0.078\*

0.020\*

10.900\*

1513.561

156.000

0.257

0.482

463.645

-0.182

-0.299

-321.954

0.216

-0.024

198.611

0419

524.177

9.216  
-0.824

her

-595.979

-0.182  
-0.299

4427

950.290  
422

0.482  
0.257

138342

156.000  
0819.952

10.12

12.400\*  
0.030\*

0.878  
0.000

60

\*



2 New  
3 00 + 50

1400 100259 - 0215  
~~14~~ - 14  
 + 14  
 + 60204 - 0229

21428 10024 - 023 + 6.25  
 21516 10022 - 020

20108 10021 - 022  
 20205 10020 - 023  
 20809 10022 - 017

10020 10020 - 010  
 10020 10020 - 011  
 10020 10020 - 012

10020 10020 - 013  
 10020 10020 - 014  
 10020 10020 - 015

10020 10020 - 016  
 10020 10020 - 017  
 10020 10020 - 018

21  
 22

67

0.000

3.000\*

20.000\*

50.000\*

0.000\*

0.024\*

-0.025\*

6.250\*

177.828

-1.600

0.006

0.028

13.924

-0.135

0.552

-24.917

-0.037

-0.099

-6.412

61

20074

3 20.1 +84 44

5.8

5.61 +0.52 +0.49 ~~6.5~~ 0.7 -129 C  
 8 = +0.14 +0.72 -132 N

+0.78 -130 P  
+0.74 -130

934

INT W

(10.5)

Jan 2007

G-3 II P +851 0.1 V  
 +367 Orbit  
 964 +33.1 8

766443 986092 +074-130 +33.1-129 +33 -057

-057 100 078-083 12.3 701 +3.0 +2 +2

+14 +70 +26 01

+8 +37 +31 02

+27 +142 +22 005

+20 +102 +25 007

+104 -17 -22

006