

31.3

-45.04

-45.3283

7.32.9

-45 10 G8 V-VI

+317.4 BSK

405 875

S = +0.16

10.47 +0.01 -0.02 GBS

-0.317 +0.448 CA

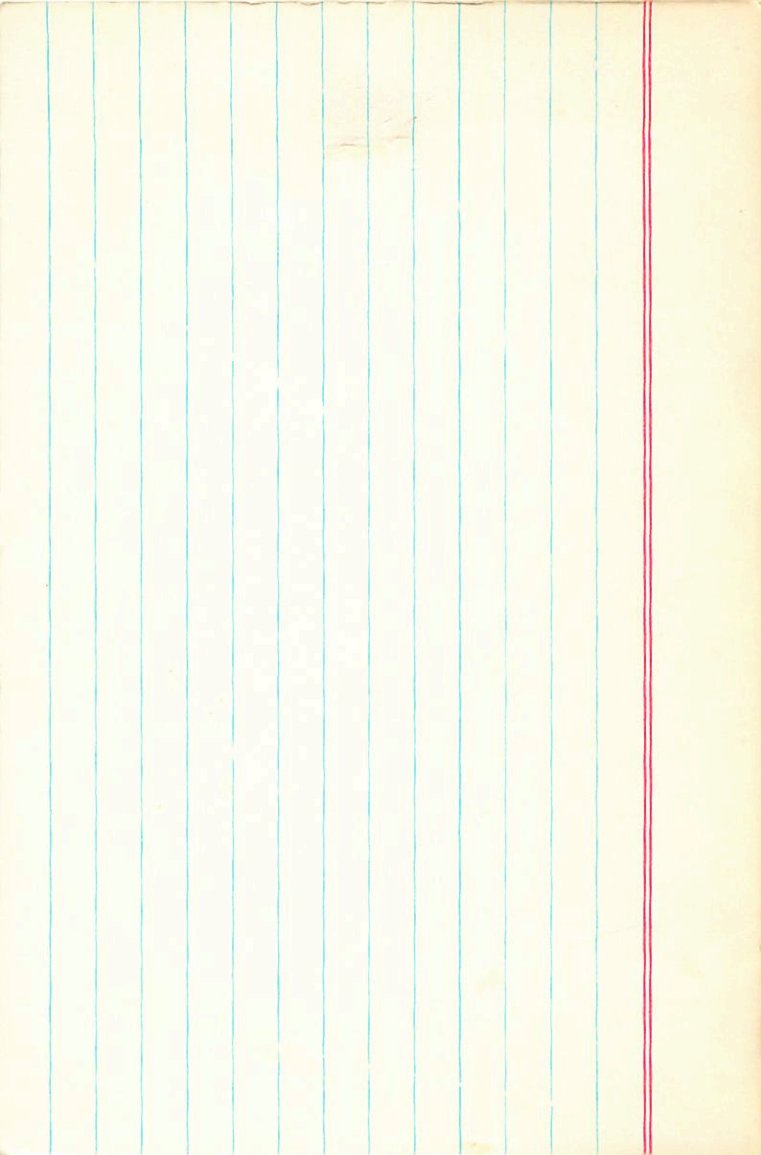
-0.301 +0.437 CR

-0.305 +0.443 →

~~-0.250~~ +0.452 BPM

.516 331

30C



-4503283 000

7

32.9 - 45

10

6877-71

-4501588 000

-118

10 APR 2002 BS

0.0806

10.10

10.40 + 0.24 (3)

525
695

5

+317.4

"

-317 + 448 602

-301 + 437 116

-309 444

(-250 + 512 400M)

014

12

-45.328*

7.000*

32.900*

-45.000*

-10.000*

-0.309*

0.444*

5.000*

100.000

317.400

2.469

0.204

4.25
708
240

311.663

0.600

-0.957

261

-243.663

12
-0.341

-0.207

-50

-99.908

HR29220

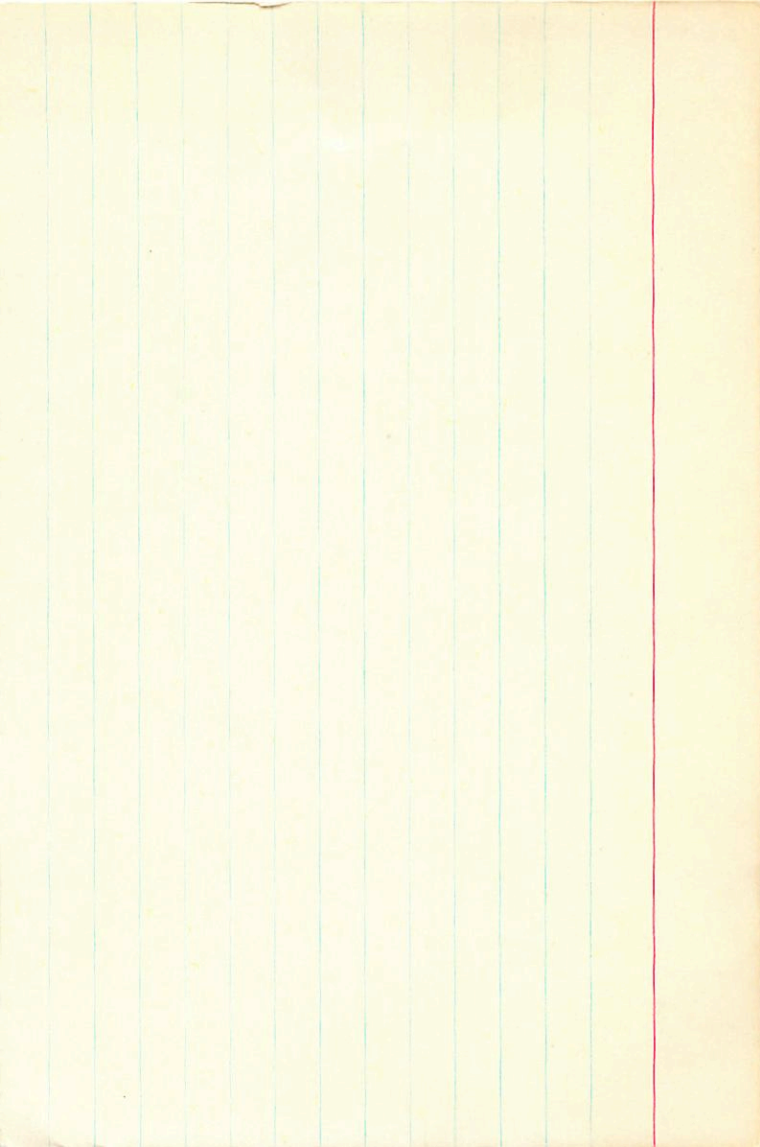
33.4 -28 15

+13 d

4.63 -0.10

-077 -023

5.738"



60406 7 33.6 +61 39 7.2 FS-40.76

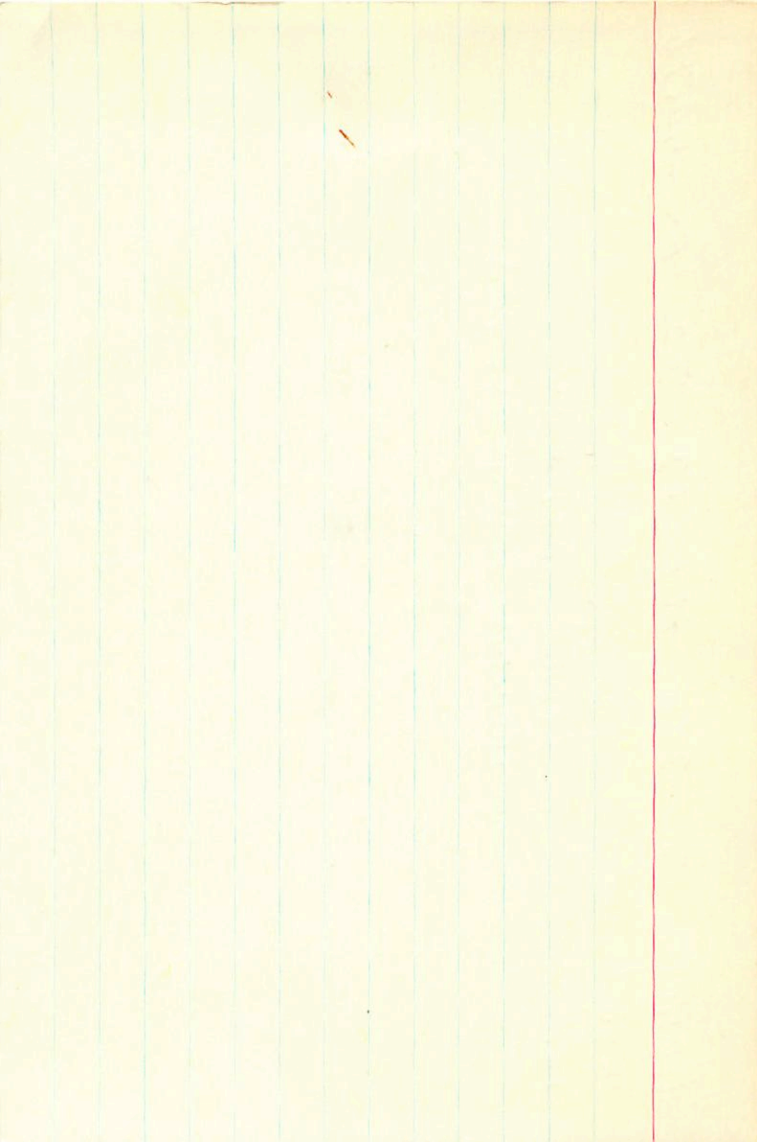
5067

10197

15

+0016 +021 N30

+0016 ±13.0 +028 ±12.2 66 → N30



-0075 ± 3.3
+008 ± 3.2
F024

60803 7 33.9 ± 0.5 58 5.9 F8 +3.60

5073

10194 55.018 1912.4 ± 5.58 26.12 1907.0

$$\frac{357}{.375}$$

$$\frac{-34}{25.78}$$

$$\frac{55.117}{25} \\ 142$$

$$\frac{26.24}{15} \\ 26.39$$

~~oppo + 0.50~~

$$\frac{-113}{-112} \pm 0.22$$

$$\frac{395}{350} \\ 3.14$$

$$\frac{39}{61} \quad 0.9$$

$$-132 + 80 \rightarrow 4023$$

$$-135 + 17 \rightarrow 66 \rightarrow F44$$

$$-123.5 + 2.4 + 3.6$$

$$\frac{-132 + 26}{1.0}$$

$$280$$

$$9555$$

$$-9988$$

$$0482$$

B

1350

103





60803.000*

7.000*

33.900*

5.000*

58.000*

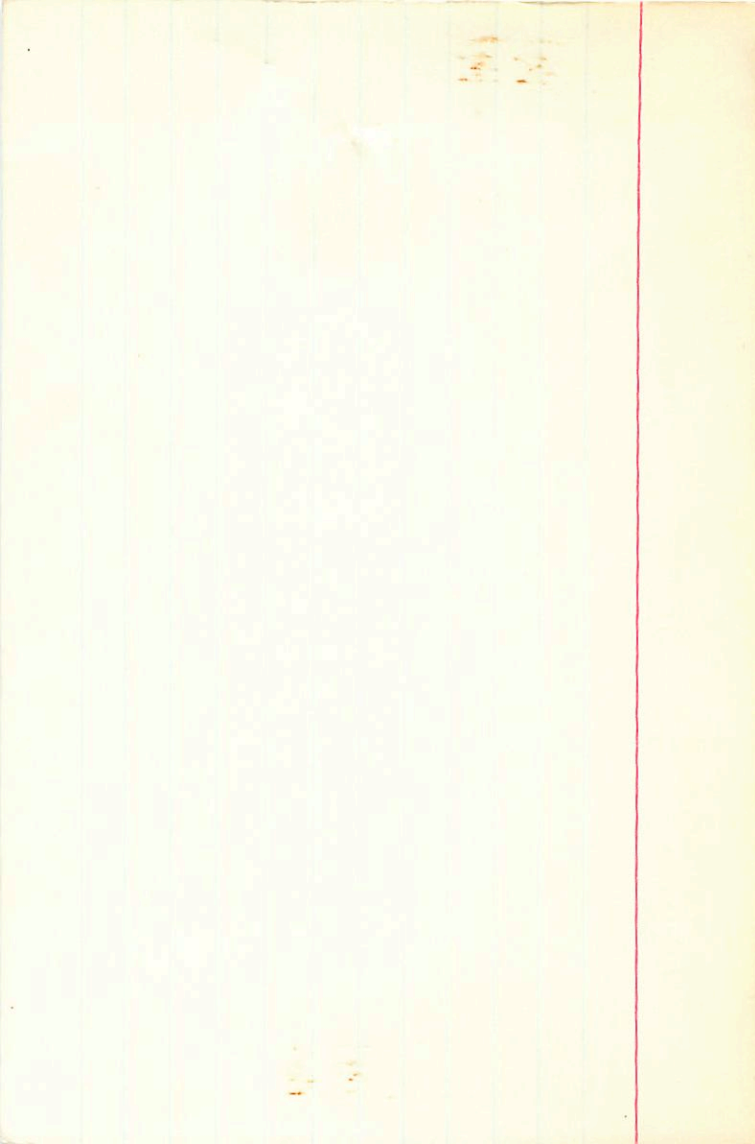
-0.132*

0.000*

4201715

4960826

7 33.9 402 11 8.7 N 44462W



20342 4393
+402

60803

7 33.9 +5 58 F8

HR2918

375 182
5.50 +40 +092 +17.8①

G-410194

457 521 382 177 391 B
380 172 391
372 184 385 ③
377 150 \$58 389 ③
SPL 2.600 ③

[m] 257 +13

[c] 319
271 54

POOR

389
-00900 +0150 ±3.0
607

-112 +010 13.68

23
+3.7 →

070
57.88 1135 162 489 2.600
375
277 417
7-5 0.2108 ④

14

2913.000*

7.000*

33.900*

5.000*

53.000*

-3.112*

3.016*

2.2

2.300*

27.5

23.040

36.000

3.248

3.820

36.657

3.206

-3.529

M

-13.100

-3.429

3.220

-4.461

2934 11246

7 3414

4-93 48 650 452 (2) 516
-52 25 430 103

605074

25488 68

+0022

17.94 23

2(107) = 035

-23
415

~~0005~~
+0020

124
16.70

+0021-028

2(10) = 463

25.552

6950

17.82

-020

4546 132

4245 446
257

4
510

+0021-0235

15
97

012

251774

38881

+00246-0204

1217

027

2=021

-24
439

0225

027-019

+5
17.12

44

6m 270

14 100.46

25.532

55.67

18.14

-19

78
514

1.331 1.202 259

11.8.11

6

62

15

GC

7 34 40 -44 50 40

61245

-44⁰ 110

W¹

+0031 -016 step

+0033 -0155

+0350

+039-014

76
44.85
55
-14
6.0
+1.6

M : 50.332
QM : 130.240
d3 (M) : -0.182

R.A. : 7.600
DEC. : -44.850
PM. R.A. : 55.000
PM. DEC. : -14.000
DISTANCE : 6.000
MODULUS : 158
RAD. VEL. : 1.600

q1 (U) : -0.416
q2 (U) : 0.886
q3 (U) : 0.205
dU : -135.709
U : -21.181

q1 (V) : -0.267
q2 (V) : 0.096
q3 (V) : -0.959
dV : -55.738
V : -10.368

10
q1 (W) : 0.869
q2 (W) : 0.454
q3 (W) : -0.196
dW : 130.540
W : 20.375

402424

7

353

+35-

10

5.49965

7039+02560

10

+038

-35.56

17

-0022 ± 4.0
-0024

+012 ± 3p
+014

7 35.5 -34 57

HR2937

4.53 -0.08

08

61330 31.035
5088 79
10240 134

1905.0 -34 51 18.02
-53
18.55

1905.8 -027

-033 +018p
-039 +015

31.062
-1
061

18.13 1939.08
21
17.92

18.13 1939.08

43.2

9648
48.2
42.4
17.96
4.59

032
-1.02

30.988
+16
31.004

17.97 1957.90
-2
17.99

914-405-572 820-029+015+24.0-009-14 057
027008 012004 109 055+19.7-8+18 014

0+25-10

4+17-19-9

1402944

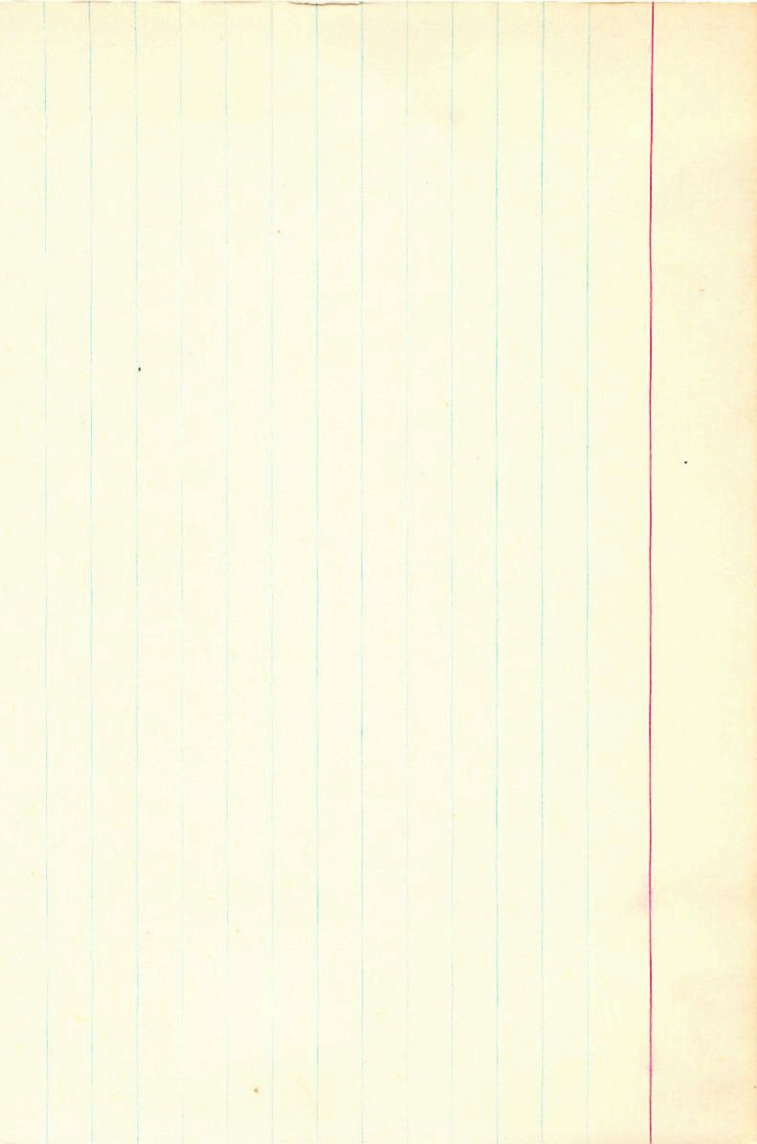
7 36.2 -25 15

141 d

4.70 -0.10

-008 -01066

5.2:56 0.1



HR
2936

7 36.7 + 32 08

+25

-016 -050 5642 -6080
8606 -7978

79.4120.

-421 003 ⁴²⁵907
-263 956 -126
868 291 402

+0319 -0007	+0312 +2.5 +227	+25.2
+0199 -2264	-2067 -16.4 -3.2	-19.6
-0658 -0690	-1348 -10.7 +10.0	-0.7



23 June

61106

7

36.7

+57

12

6.2

gms -1348

5100

10279

²⁴

-0014 -008 N30

-0018 ± 2.2 -014 ± 1.7 BL → N30

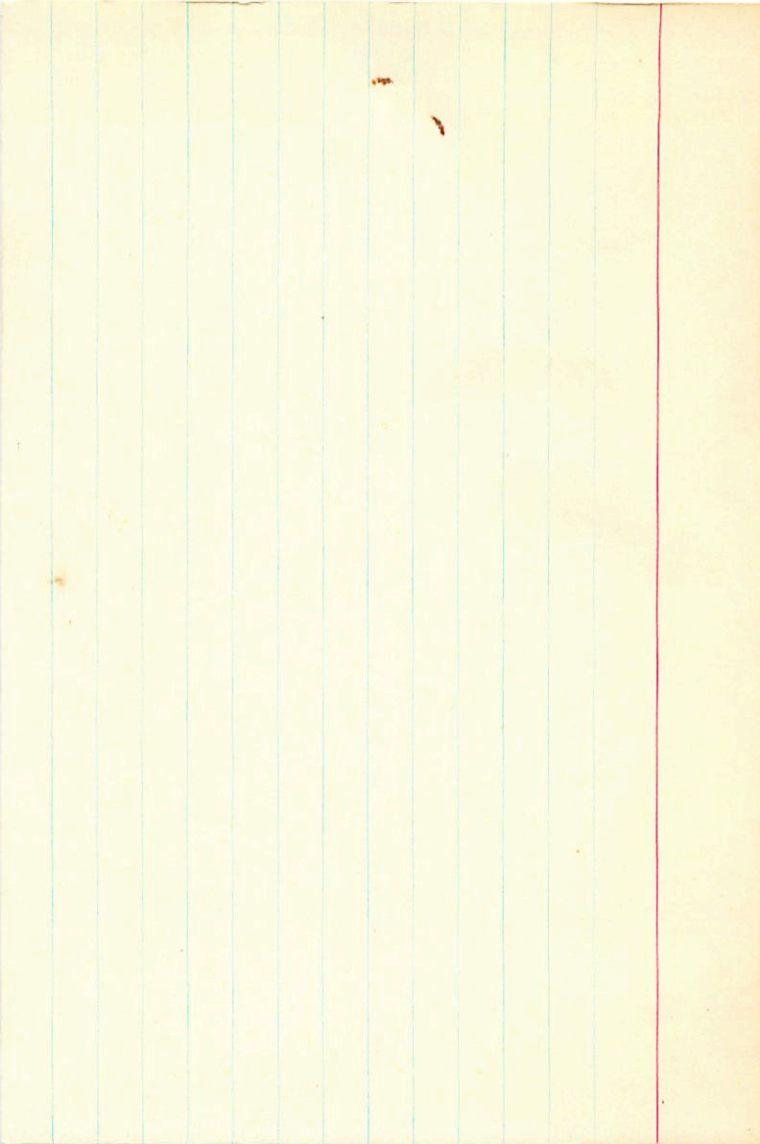
AD56251

7 36.7 +5 21

-3.22

dc mi

.3041



$$\begin{array}{r} -0044 \pm 3.6 \\ -0065 \\ \hline = 129 \end{array}$$

$$61363 \quad 7 \quad 37.5 \quad 15 \quad 8 \quad 15 \quad 5.8 \quad 966 \quad +39.8$$

10305

$$5110 \quad 31.206$$

$$\begin{array}{r} 234 \\ \hline 440 \end{array}$$

$$\boxed{-0531 - 1285}$$

$$40.186$$

$$51.108$$

$$\begin{array}{r} 31.282 \\ \hline 198 \\ \hline 114 \\ \hline 2 \end{array}$$

FRS

$$18968 + 48$$

$$\begin{array}{r} 55 \\ \hline 542 \end{array}$$

$$5746$$

$$\begin{array}{r} 235 \\ \hline 205 \end{array}$$

$$\textcircled{31.5}$$

$$31.237$$

$$\begin{array}{r} 27 \\ \hline 25 \end{array}$$

$$0.85$$

$$15 - 1896.8$$

$$\begin{array}{r} 2.24 \\ \hline 8.09 \end{array}$$

$$7005 - 7137$$

$$28.4 \quad 1926.4$$

$$\begin{array}{r} 23.15 \\ \hline 5.172 \end{array}$$

$$\begin{array}{r} 5.172 \\ \hline -1.83 \end{array}$$

$$\begin{array}{r} 3.20 \\ \hline 4.09 \end{array}$$

$$4.09$$

$$4.0 \quad 1930.0$$

$$\frac{0}{4.09}$$

$$3821$$

$$9300$$

$$9000$$

$$488$$

$$-488$$

$$-588$$

$$566$$

$$28.3$$

$$31.5$$

$$4.04$$

$$4.05$$

18



7.000	R.A.
48.250	DEC.
0.000	R.A.
0.000	DEC.
0.000	STAND
10	ODDUS
0.000	VEL.

-0.010	(U) 01
-2.250	(U) 02
0.074	(U) 03
0.000	04
0.000	05

0.207	(V) 01
0.072	(V) 02
0.148	(V) 03
0.000	04
0.000	05

0.000	(M) 01
0.175	(M) 02
0.404	(M) 03
0.000	04
0.000	05

K

R.A. : 7.600
DEC. : 48.250
R.A. : 0.000
DEC. : 0.000
DISTANCE : 0.000
MODULUS : 10
D. VEL. : 0.000

q1 (U) : -0.416
q2 (U) : -0.253
q3 (U) : 0.874
dU : 0.000
U : 0.000

q1 (V) : -0.267
q2 (V) : 0.952
q3 (V) : 0.148
dV : 0.000
V : 0.000

q1 (W) : 0.869
q2 (W) : 0.172
q3 (W) : 0.464
dW : 0.000
W : 0.000

18

-13.7

02036

7

38.4

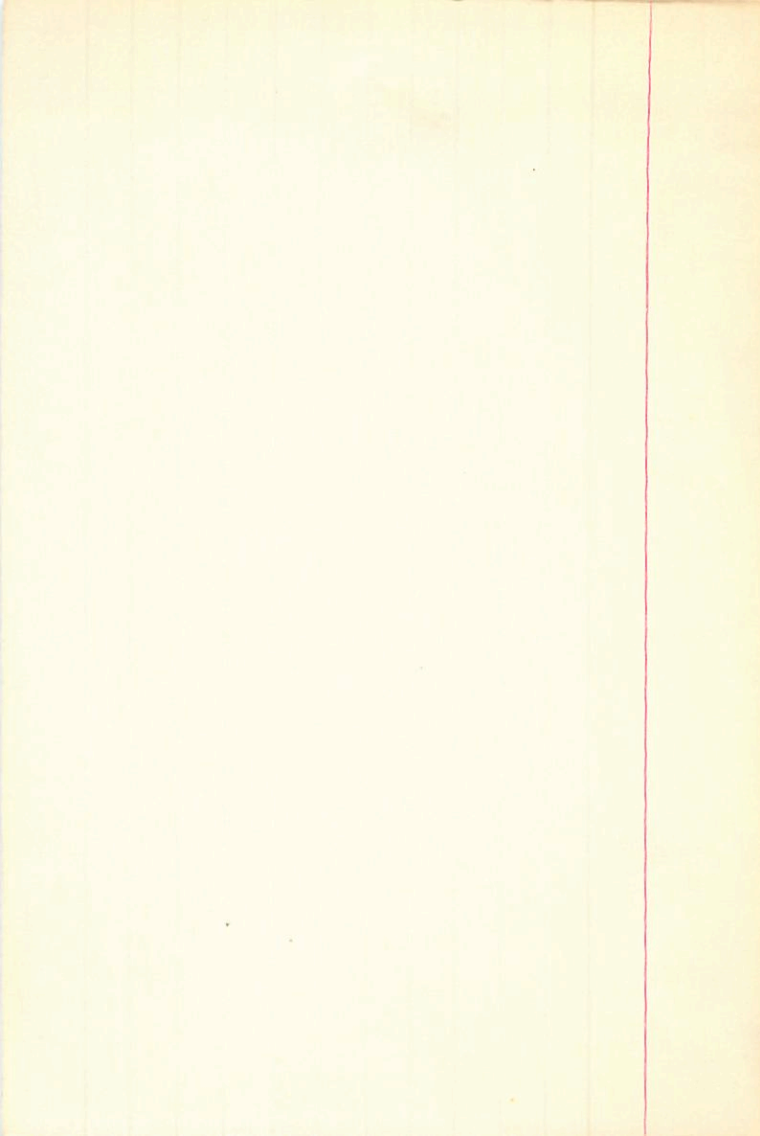
45

51

7.35

+1.71

MSE-III



2 men

7 38.9 -09 26

+10.5a

HR2970

-075 -022 66

61935

3.90 thok Rom

-076 -019N

-025 -02415

5123

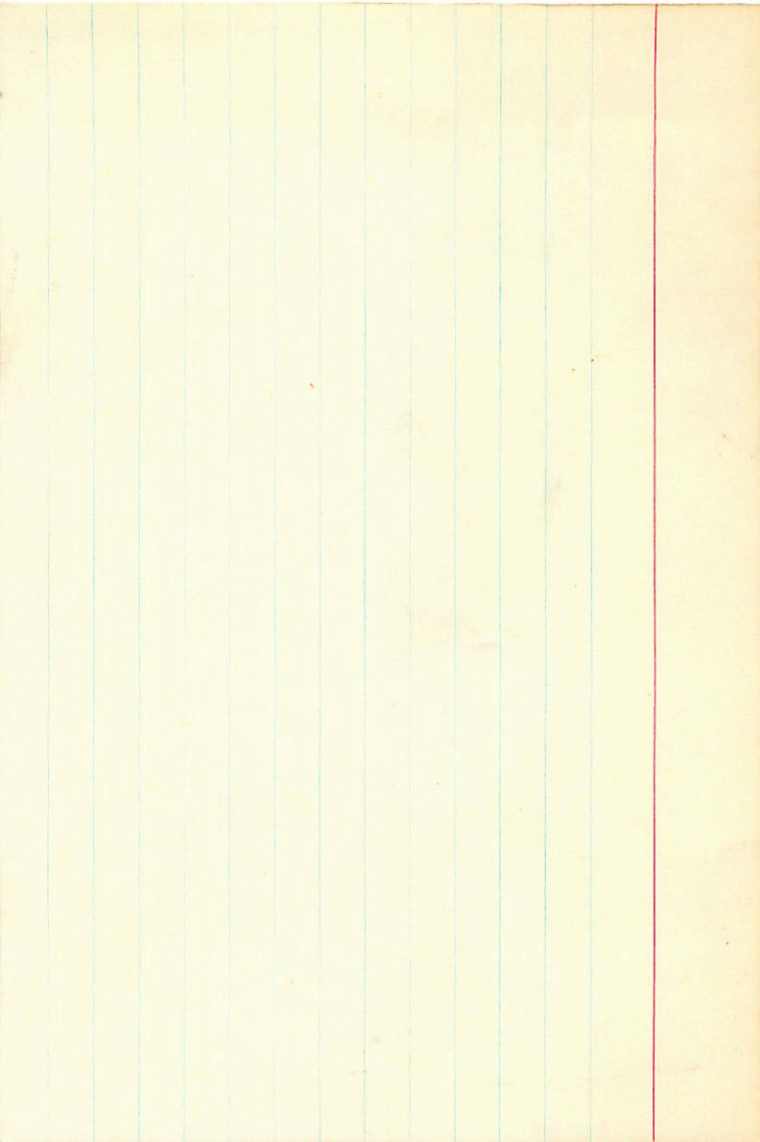
ut

-0052 -019N30

-025 -0222

10345

-005251.7 -02351.5 66 → N30



0.745^d

WZPmp 7 39.4 -13 17

$$\begin{array}{r}
 10.9 \\
 9.3 + 0.37 \\
 \hline
 10.25 \\
 \hline
 10.24 + 0.57 \\
 \hline
 10.81
 \end{array}$$

$$\begin{array}{r}
 10.9 \\
 9.3 + 0.37 \\
 \hline
 10.25 \\
 \hline
 10.24 + 0.57 \\
 \hline
 10.81
 \end{array}$$

$$\begin{array}{r}
 +0.27 +0.53 \gamma \\
 \hline
 +0.24 +0.57 \\
 \hline
 +0.09 \delta.4
 \end{array}$$

1062422 7 84.5 -14 25

1402812 7 20.0 -18 55 496-004-0.40 amp 87 10.11 5.1

14R 3019 7 44.4 -12 33 6.38-002-0.08 B9 10.04 5.3

14R 2932 7 35.3 -14 20 6.52-002-0.30 B9 10.11 6.3

8 am

+ 57
+ 24
+ 92
<u> </u>



61859

7 39.5 +24 07

F0

HR2962

CC10354

SD 2sp

5.55
750
670

[m] 209 122
498
101

[c] 424
12.7

319

4.00

+15
12

.210 1153 .486 @ 500 2.6674

-2 -2
-076 -009 62
-078 -007
L00 -007
L00 -005

-11.6

19

S Mem 7 40.0

8.0 -7 -14

-6 -8

-7 -11

10.0:

+0196	-0072	+0124	+12.7	+99.0			
+0117	-0483	0366	-36.6	29.7	430	+139	+892
-0395	-0179	-0574	-57.4	340.2	-256	+928	-248
					+866	+344	+363

63745

7

46.7

-52

26

40K

12.18

(Si Cr)

2.54

10.82 +0.07 -0.04 3BS

7017 +068 BPM

(Lm)

20



Faint, illegible text, possibly bleed-through from the reverse side of the paper.

Handwritten mark or signature on the right side of the paper.

7.000
-52.450
28.000
66.000
10.000
1000
21.800

-0.456
0.887
0.072
249.656
250.626

-0.235
-0.042
-0.971
-32.409
-53.581

0.859
0.460
-0.227
217.600

62351

▷ 40.7 - 16 57

+ 0.18

KD66315M

6.54 + 8.441 6.54

John P
RISOR

0004 003 (Carrying)

- 006 + 031

- 6

31

875

+ 0.18

21

Handwritten text, possibly a signature or date, including "1951" and "1952".

Handwritten numbers "1" and "2" with arrows pointing to the right.

R.A.
DEC.

10.000
10.000
10.000

M "



-8.792

AFC Maj
62437 HR 2454

41.5

-0033±6.7
-0009
+2 32

+14.76

5153

-0021 -020

10410
-038-124
+20

31.275 1898.9 +2 31 33.73 1898.8

169
4444

1.18
34.91

6.35

56
600
5300

31.391
23
414

34.13 1432.9
24

+34
-70
-304

1058

-032-018

34.37
34.016
34.54
34.54

-430 450 783
-256 770 -584
866 451 215

+0611 -0427

+0184

+1.9 +11.5

+13.4

-0366

-0366

-3.8 -8.6

-12.4

-1231 -0428

-1454

-17.4 +3.2

-15.2

6.48 123182/131 2.824

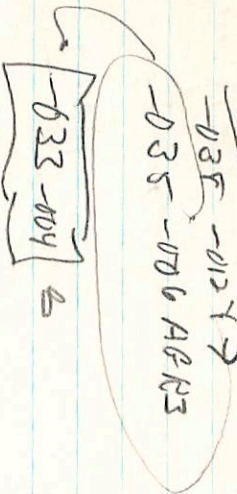
-035 -0127

+2 0

-2 0

-035 -0127 →

-035 -006 AGR3



22

-0019 +36 -021 +30

62230 7 41.0 +24 22 6.8 AS +27.9

5144

10389 57.135 1904.7 +24 21 57.69 190.1

+105
1240

1.03
52.72

" -0013 -011 N30

|

5

10389 57.135 1904.7 +24 21 57.69 190.1

+105
1240

1.03
52.72

-13.588
-148.588
0.223
0.451
0.864

-0.251
0.721
-0.586
24.586
-0.719

18.462
0.633
0.779
0.450
-0.436

14.700

117

5.350

-4.000

-33.000

2.500

2.700

22

WS 145 7 41.1 +25 54 +2.7

22285 HP

HR 2983 424
-018 -019 66
"0013

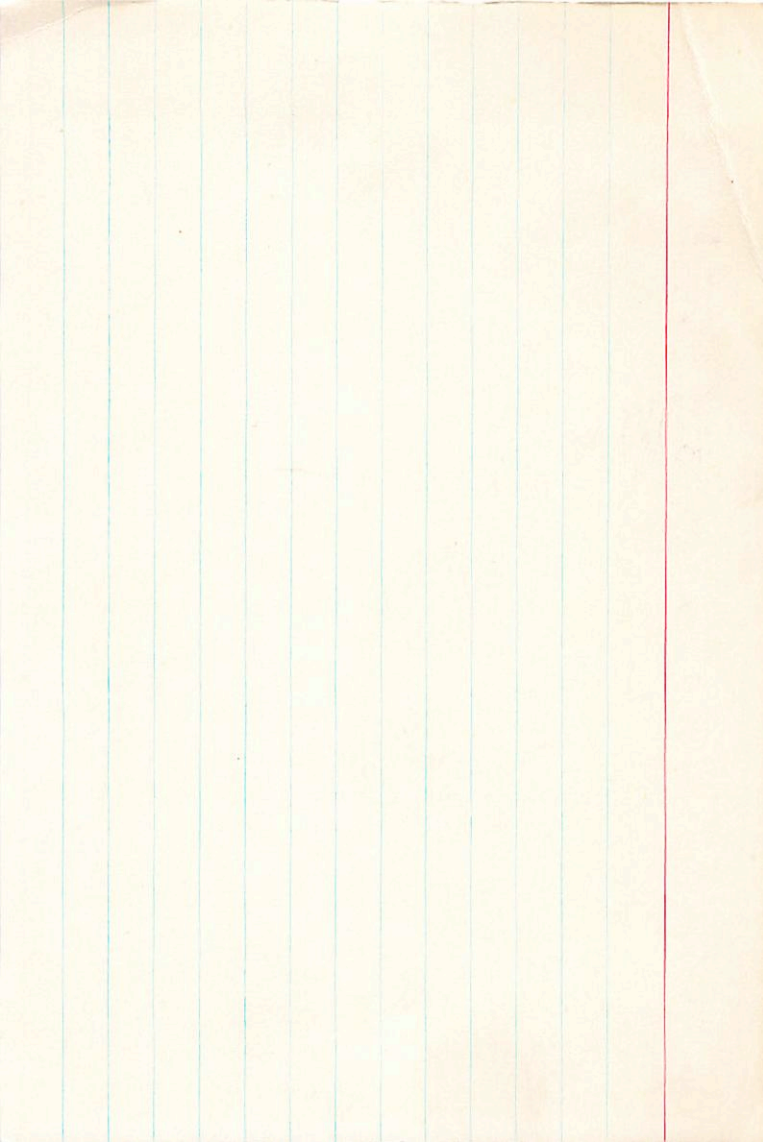
424

$$\begin{array}{r} 424 \\ 18 \overline{) 7632} \\ \underline{72} \\ 43 \\ 18 \overline{) 432} \\ \underline{36} \\ 72 \\ 18 \overline{) 720} \\ \underline{54} \\ 180 \\ 18 \overline{) 180} \\ \underline{18} \\ 0 \end{array}$$

10.8 -20.1

5.56

-430 100 858	+0368 -0040	+0278	+50 +2.4
-256 939 -228	+0220 -0760	-0.540	-9.8 -0.6
866 328 378	-0740 -0267	-1007	-18.1 +1.0



-0022 ± 3.6 +0006 3.1
-0028 +006

62578 7 41.4 -35 56 5.6 B8m -0.86

5147

10401 22.127 1908.8 -35 55 48.68 1905.2

091
-218

-27
48.95

22.144
-143

38.0

49.06 1938.97
+22
48.84

93.69

222
-111
-107

145
46.72
+ .23

46.8
41.6

22.063
+16
079

48.58
3
48.61

1954.72

-0062±7.8
-0078

+174±6.7
+149

+15.5±0.7
c, (4)

62850 7 41.7 -59 11 6-210

10404

7.18 + 6.3

N30

44070 1902.8 -59 10 45.23 1898.

293
303

-8.93

57.16

17.842

263224

44.128

137

129

35.0

14.91 1929.618

-3435

49.126

49 44

49.04

663

48.32

4.84

4405

+ 46053

46.54 1946.2

-4.9
-6.9

275 ± 6.7
-538 + 125.66

771 ± 5 + 150 2000

68 ± 4 + 156 ± 160

7569

37.1
39.1

25

7.700
-9.200
-105.000
160.000
2.000
25
15.500

-0.436
0.599
0.672
668.322
27.201

-0.251
0.636
-0.730
605.670
3.904

0.864
0.487
0.127
-55.372
0.582

23

S Mem

7 40

8.0

-7 -14 1

-6 -8 7(m)

-7 -11

10.00:

+0196	-0072	+0124	+12.4 +99.0	430	+139	+892
+0117	-0483	+0366	-36.6 +29.7			
-0395	-0179	-0574	-57.4 +40.2	-256	+928	-248
				+866	+344	+363