

395
17
301

414.5 FS

1 22.9 +28 15

4634

±5.0

12 25
+1006 -023

HR407

GC1722

+10172 -020.5

386

+022.5
+1022.4 -025.5

+022.5
+1022.4 -025.5
⑤ SAC 2.654 GC+

76

1289.152 .547

[M] 804 +19

297 Sp. A. d. =

SAC

+19

Sp. A. d. =

297

SAC

[C] 489 +112
131 +23

3.7 -15.4

+12

Sp. A. d. =

297

SAC

+017 -037 GC
+10183 -034
+1019 -836

253 360 530 0827 -0299 0528
-594 567 569 -0618 -0564 -182
129 764 -628 0134 -0762 -0628

-8.4

9.1

+10.0

52467

6848

260
-115
5.45

+0018
+0028

-019
-012

68

+0012 ± 4.5
-037 ± 4.5

-017 -005

51387

1558.1

10020

+0021

6.11

1558.4

1.91
8.02

51392

-380

+0016-023
0 + 2

7.34
1.20
8.50

1934.8

51433

+0016-021

7.17

1958.31

428

+022-021

-30
6.97

23

51468

6546

0713

+0521 -0170

457

-24

+0026 -0114

0687

0312

RAD. VEL. : -18.200
 MODULUS : 83
 DISTANCE : 4.000
 PM. DEC. : -14.000
 PM. R.A. : 35.000
 DEC. : 23.250
 R.A. : 1.400

U : -2.329
 Ub : 28.079
 p3 (U) : 0.290
 p2 (U) : 0.290
 p1 (U) : 0.291

V : -17.487
 Vb : -133.944
 p3 (V) : 0.290
 p2 (V) : 0.290
 p1 (V) : -0.297

W : 7.249
 Wb : -37.751
 p3 (W) : -0.292
 p2 (W) : 0.290
 p1 (W) : 0.132

R.A. : 1.400
DEC. : 23.250
PM. R.A. : 35.000
PM. DEC. : -16.000
DISTANCE : 4.000
MODULUS : 63
RAD. VEL. : -15.900

q1 (U) : 0.791
q2 (U) : 0.296
q3 (U) : 0.536
dU : 98.079
U : -2.329

q1 (V) : -0.597
q2 (V) : 0.566
q3 (V) : 0.568
dV : -133.944
V : -17.487

q1 (W) : 0.135
q2 (W) : 0.769
q3 (W) : -0.625
dW : -37.751
W : 7.549

35

9929

1 231 46 //

+00013 -009 24

+00170 -005

+00158 -0069

274

-9

10.0

+0064

[+019-011]

36

R.A. : 1.400
DEC. : -46.200
R.A. : 27.400
DEC. : -9.000
ANCE : 10.000
LUS : 1000
VEL. : 0.000

(U) : 0.791
(U) : 0.606
(U) : -0.089
dU : 45.253
U : 45.253

(V) : -0.597
(V) : 0.731
(V) : -0.331
dV : -84.846
V : -84.846

(W) : 0.135
(W) : -0.315
(W) : -0.939
dW : 25.570
W : 25.570

36

70092.43.4 - 058.2.8

+ 10098

8671

1

23.4

+ 43

12

6.1

DFE

+ 30.62

1729

811

21.583

14000

+ 43

11

56.60

18935

+ 30.81
+ 31.24

114 HR

- 460
123

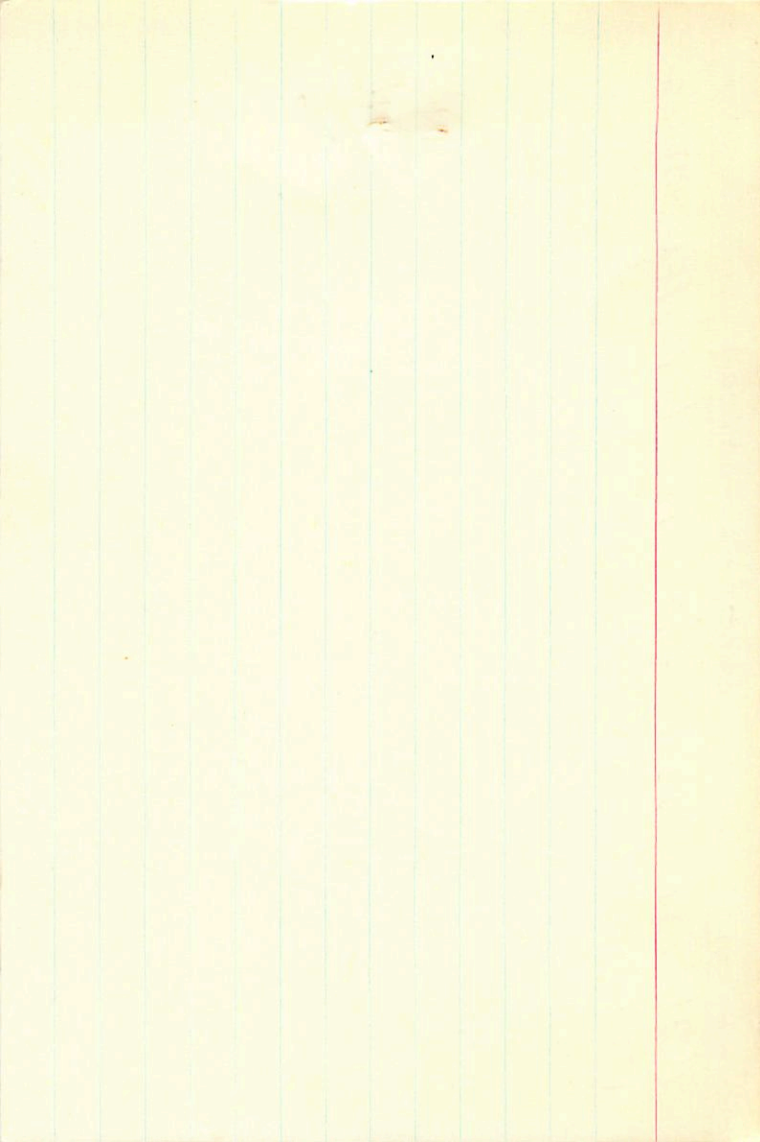
256

3.28
59.88

1324.1

53.53
277422
21.219
391
319
2

8.9
49.48
58.38
54
57.27
58.11



8671

427
234

1 23.4 +43 12

-128
944
33

df6

HRV09

(L.O)

GC1729

.326 .156 .421 ② SP2 2.615 ④ C+

10696

336

[M] 215 +24

[C] 356 +41
65

+13
-11

+8

+00960 -0560

29 06+

+3.0

+00966 -0531
424 -52
1452

+1058

1100 -057

+30.6a

BE

1452

229

8

1304

2904

109698

1058508

1

5

11

11

11

11

11



[Faint, illegible handwriting or bleed-through from the reverse side of the page]

409.000*

1.000*

23.400*

43.000*

12.000*

9.106*

-3.057*

2.650*

33.384

33.600

0.372

0.603

241
30.9
+29.9

31.046

-3.391

0.729

+102

3.054

37

-0.186

-0.325

-15.7

-16.254

356 935 ✓ 564 x 26 + 225 - 085 ✓ + 16.9 - 048 + 10 - 332 ✓

-081017 213 - 045 - 171 ✓ 1050 + 110 + 13 + 5

+6 + 49 - 3 025

$\boxed{+43 - 20 - 14}$

+7 + 11 - 1 030

$\boxed{+37 - 16 - 13}$

$\boxed{+40 - 18 - 13}$ 0275

+6 + 47 - 3 026

+41 - 19 - 14

Vanya
+34 19 CFS

8673 | 23.3

HR410

6.34 +0.48 -0.01 3599

GC1726

3

942

1314 .164 .449 ② SPC 265-1③ C+

[1m] 220 +1B

[C1] 386 ~~40~~ / ~~61~~

13.9
245

+3.35

(+3.3)



38

1

300 100
200 100
100 100
50 100
25 100
12 100
6 100
3 100
1 100

100 100
50 100
25 100
12 100
6 100
3 100
1 100

~~1.400~~
34.300
276.000
-86.000
2.890
37.56
16.900

0.791
0.188
0.583
778.011
39.288

-0.597
0.447
0.666
0.051

B-V 385

7210 1 23.8 +43 26 F2 +2.15

1733

6.6 3/16 7000

6.9

13424 -29.6

+139 -038 G

143
029

1613 0.79

+141 -038 G

C +2 -034

~~0128 070~~ *Cancelled*

139-040

6.89 250 157.59

4511 38

23.2

546

9406

+176
01.87

9027 | 1383
-4304

1368

5510

9644 9552 } 1360142
2046 0974 } -0238-022

-77
0/47
4/16

715
715
5849

1332

+0121-036

+0122-0329

1733-037

358 634 687 727 +134 -038 +7.1 -026 +5 -133

-050 009 130-024 -123 659 +5.2 +5 +2

-3 +46-4 015

[+38-24-7]

+1+24 0 53

[+21-10-5]

296 178 461 2656

+0122 ± 6.4
+0128

-010 ± 5.1
-010

+0419 =

8774 1744 1 24.3 +34 07 F5 +14.58

HRV15 820 +0137 -007 cut off 4.3 +01255 -0069 +151 -010 G.L
188 -002 +9558 +176 -011 G.L (2)
WR20 15.237 1901.4 +34 7 6.21 18981 +164 -011

NO

-5-93
14,644

156 -011

52
6.73

or 9616 9986 1564
2764 -0525 -0028
-0.8
0170
3.85

+27

50.09
247855
14.8290

26.0

183
4575

1924.7

6.44
-29

149
27.4
29.3

300 226

9956
14978
+334
15.006
37.5

7.05
-57
6.48
6.23
6.71

1929.8

m√243.6

245 295 403 83.5

6.3
-14
6.16

627 296 178.6 461.2 2656

360 933 561 825 +164 -011 +14.5 -006 +5 -043

-059 002.153 -006 -251 734 +12.0 +11 +4

-4 +47 +5 017

+43 -19 -3

-1 +41 +6 02.

+38 -14 -3

30

~~44 -19 -0~~ 015

-3 +45 +6

+43 -17 -2

AD. VEL. : 0.000
 MODULUS : 10
 DISTANCE : 0.000
 PM. DEC. : 0.000
 PM. R.A. : 0.000
 DEC. : 0.000
 R.A. : 1.400

U : 0.000
 UB : 0.000
 p3 (U) : 0.282
 p2 (U) : 0.170
 p1 (U) : 0.791

U : 0.000
 UB : 0.000
 p3 (V) : 0.035
 p2 (V) : 0.440
 p1 (V) : 0.297

W : 0.000
 WB : 0.000
 p3 (W) : 0.440
 p2 (W) : 0.070
 p1 (W) : 0.100

21

R.A. : 1.400
 DEC. : 34.100
 PM. R.A. : 0.000
 PM. DEC. : 0.000
 DISTANCE : 0.000
 MODULUS : 10
 RAD. VEL. : 0.000

q1 (U) : 0.791
 q2 (U) : 0.190
 q3 (U) : 0.582
 dU : 0.000
 U : 0.000

q1 (V) : -0.597
 q2 (V) : 0.449
 q3 (V) : 0.665
 dV : 0.000
 V : 0.000

q1 (W) : 0.135
 q2 (W) : 0.873
 q3 (W) : -0.469
 dW : 0.000
 W : 0.000

39

+290239

1 24.5 +29 31

F2 -5.78

1409915

+077 -056 Y

-9 -2

0 +1

+068 -057

360 933 482 870 +077-056-5.7-028-3 -232 ✓
-028 010 072 -026 -009 ✓ 389 -5.0 -5 -2

-6

012
015

8879

1 24.7

~~-32 48 585~~ ~~260~~ ~~-465~~ ~~+55~~ ~~-80 20~~

R5cl

CC1253

39.947 1911.5

-0016 ± 7.3 -026 ± 6.7

-0001

-034

062
40.059 -0008 -030
+4 +2

6.74 1909.7

1.05

5.74

40.060

-5
055

-004

-0004 -028

4.12

137

275

4.3

6.80

1938.90

+8

6.72

48

-0010-023

-0126

-010-027

5 705

R 800

1 24.7 -32 48 -80

G-01753

39.957 1911.5

-0016±73 -026±6.7

6.74 1909.7

Stuy New

-0010 -023

-0004 -025 N30

-0012 -025 G-6 →

-0008 -025

-12-23

-8-23

-10-23
-4-25

Stuy New on NY Copied

Young Street Carbon *

-609-0284

115m.

789	612	054	-0337	-0646	-1033	-12.2	-0.4	-12.6
-548	786	-157	+0255	-0834	-0634	-7.8	+1.2	-6.6
139	-052	-986	-0059	+0104	+0088	+0.6	+7.9	+8.5

19707-18

1 249 1242

127215

481 034

974	9852	980
2260	1714	019
		45
		0513
		145

Northgate

-54175

1, 28.0 - 0.82

0.25 - 0.13

7.94

+40

+66

65047059

983 958

2838

0576 2807

6520 -

355

100

0812

2.13

005752A

+0472±5.9
+0446

-118±53
-088

P230 1 25.0 +73 57 265 +2398
831 +73.75
1762 48625k 2.3

①
72791

+186 -186

24 5-9.315 1903.2 +73 56 53.42 1901.2

-2209
56634
57106

+73075

0459 -103

877
46

58.25
+047
1605
1105

7.196 -103

+144
-3

56 55.9 1925.9

-12

55.79
2.52

1739
109
2191
H.

362 932 961 276 +196 -118 +23.9 -113 +23 -156

-071 041 183 -105 141 1061 +6.6 +6 +2

+11 +33 +19

035

$(+39 +5 -6)$

04

110222

17.224 (7029) 3796

+3.9 3F

425

1 25.3

-11 10

$\frac{27}{37.89}$

100

$\frac{44.5}{4.2} 2600$

8921

1764

6.13 + 1.3 ✓

~~+180 +194 + 40
+175 +24 00
+178 +0215~~

#62

ADDs 1182

2C

#4.

10^m 3"

973 9862 1262
2303 1654 0133
-33
0184
362

$\frac{+180 -017}{\text{box}}$

+0119 ± 100 +021
+0120 +024 ± 83
+0119 +022

Rulu

$\frac{1.289 1165 254 MF}{16.978 14013}$

$\frac{-570}{398}$

$\frac{17.210}{-1}$
 $\frac{203}{\text{box}}$

+0119 +022
+0113 +0204

$\frac{-1.21}{3437}$

6871

37.76

Carbon #

$\frac{1741}{1741}$
 $\frac{+174 +016}{\text{box}}$

$\frac{-5}{3784}$

40

0125
~~5710~~ -236

01 25.4 - 2340

14827-232

6274-24 15.35 TO.110 Rents and

3.01
12.87

410

985 9775 2326
9185 0023
1901 2107

lighter WO

0.230 56

1.4

9775 1000 229
9810 0000 020
+3.5

229 020
230 052

230 251
230 52

0249
2.01

3.01
~~1.01~~ 9.7

1,498
-23,660
259,000
20,000
3,010
40
12,860

0,791
0,594
0,150
914,578
38,494

-0,597
0,802
-0,025
-571,973
-23,200

0,135
0,869
-0,988
153,161
-6,526

6

-1

40

41

41



1.400
-23.660
251.000
52.000
3.010
40
8.700

0.791
0.594
0.150
1000.033
41.618

-0.597
0.802
-0.025
-452.942
-18.335

41

0.135
0.069
-0.988
164.271
-2.029

6205

5112

20 24- 092.1

(M)

4007500+

1020
101
101
101

0822 2730
0895 1521
560 0445

9029

450163

1

260

-45 20

655

+0097 1074

ND

1027

+104.5 1070

9559 9122

0918 2724

946 438 239 451 9.22 +235

1196

+03.45

rph

9053

839

1787

Handwritten scribble

1

26.2

-43

34

RSIB

MO IV

✓

P-V

~~31.27~~

+1.50

Cape

+25.7 a L(31)

sp. B abt 1949

RS(+0.3) more

GC -028 -207

-3/7(10) ± 10

-72 -74 -1 .010

-36 -41 -13 .020

-40267.18
-20751.7
-206

26 11.724 1505.4 -43 34 26.13 1901.0

$$\begin{array}{r} 116 \\ \underline{.840} \\ 15.99 \end{array}$$

23.89 1938.71

$$\begin{array}{r} 11.799 \\ \underline{-031} \\ .768 \end{array}$$

$$\begin{array}{r} 23.79 \\ \underline{+10} \\ 23.79 \end{array}$$

3.39 16.77
1.69 9.38

$$\begin{array}{r} 755 \\ \underline{-085} \end{array}$$

41.7

$$\begin{array}{r} 25.48 \\ \underline{-9.49} \end{array}$$

11.780

27.18

855.98

$$\begin{array}{r} -037 \\ \underline{.743} \end{array}$$

27.18

47.1

46.1

5085

MSH

1 266

-37 05

+75 (22)

~~01414~~

+730

34728

(7119)

74.63

+0.00-0.06

+2.5

-6

9.0

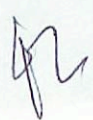
+7.5

R.A. : 1.450
DEC. : -37.100
R.A. : 25.000
DEC. : -6.000
ANCE : 9.000
JULUS : 631
JEL. : 7.500

(U) : 0.786
(U) : 0.618
(U) : 0.016
dU : 56.685
U : 35.885

(V) : -0.601
(V) : 0.769
(V) : -0.217
dV : -78.668
V : -51.265

(W) : 0.147
(W) : -0.161
(W) : -0.976
dW : 18.432
W : 4.310



5023 1 26.6 +30 35 dA +4.78

8.3

+522 -117 Y

365 530 509 861 022 -117 +1.7 -060 +2 -474

-008 022 020 -056 303 195 +1.0 +4 +1

+34 +21 -45 01

-630118 CPD

1 26.6

-43

20

10.4 63

10.8 5

-145 ± 5.7

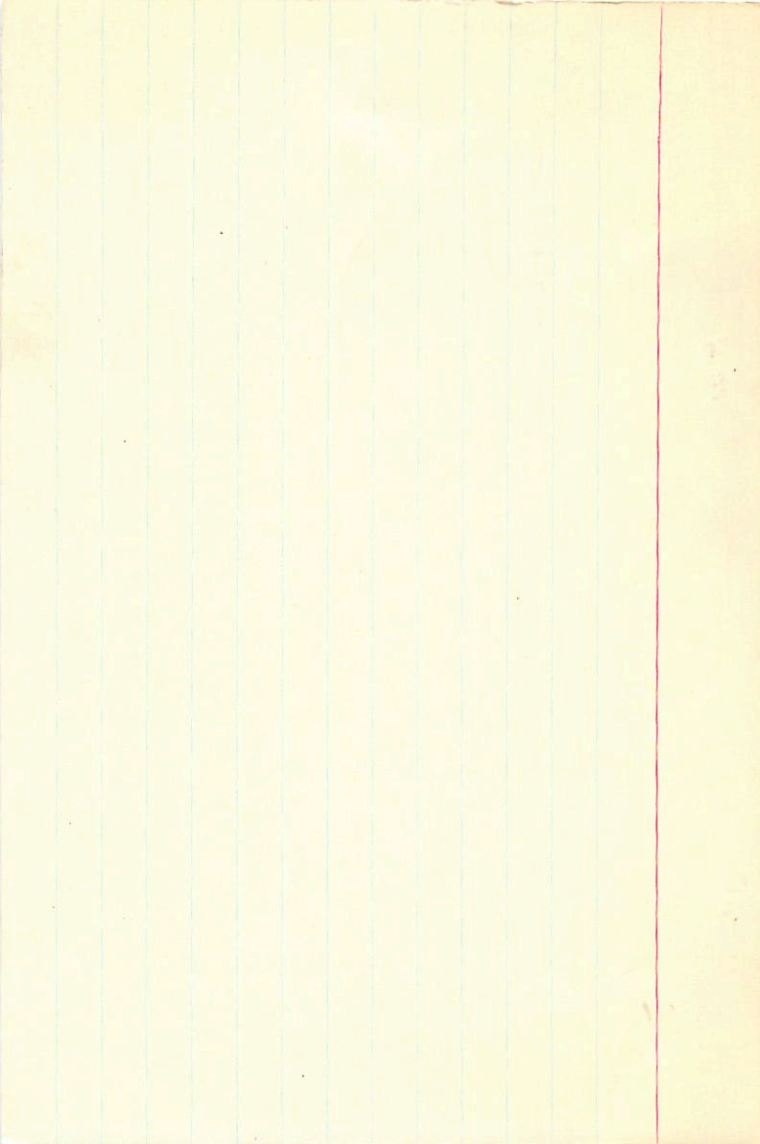
2.4 km²

⁵

+ 289

- 0.87

60M



+20⁰233

+0175 ± 6.4 -007 ± 6.3

101

-009

9070
9070
1804

1

22.0

+30

45

265

+11.58

W846

846

8.2

+225 -007 Call

1.694
-0.681
1.013

1911.1

+30

44 5-7.48

1910.2

0177 000

228 000

28
57.76

265

1.31
4
314

+0174 -006

57.7

192 9.8

3.0

+11.8

-12
57.58

32.3 p.m.

9571 9991
2897 -0424

30
1.3

+784 +214 +500
-601 +487 +632
+148 +945 -513

+9725
-1356 -1138
+1571 -0240 +1000 +26.7 +6.8
-21.0 +7.5
+43 -6.0

86
174
394
6072
86
96
150
175

321529 512 760 +325 -007 +11.8 -004 +6 -025

-083001 209 -001 -324 995 +10.1 +9 +4

-5 +42 +5 026

+39 -19 -5

-7 +46 +5 023.5

+41 -20 +1

XX Sep 01 27.2 -33 35

109/23 010

114-8-010
151 643

137 121

1012
1012

+0016-019 YTC

+012

1014-023

890
1755
171

1101

4B

Handwritten text, possibly a date or reference number, including "1914" and "1915".

Handwritten text, possibly "1-1".

Handwritten text, possibly "1-2".

Handwritten signature or initials.

Handwritten text, possibly "1-3".

17.440
- 33.600
17.000
- 23.000
8.000
0.000

7.15 9.25
264.15 281.54

7.25
281.84
1163

0.786
0.616
0.054
- 14.432
- 5.746

-4 -4

- 0.601
0.781
- 0.170
- 125.483
- 49.956

31-34

0.147
- 0.101
- 0.984
20.874
0.310

45 +6



9264

01

28.8

±30

22

43.0

Anderson
0061-036

1997 906 169] 20

722

14 400

111 14

417505

9.27 4126 + 1114

10.5302

64

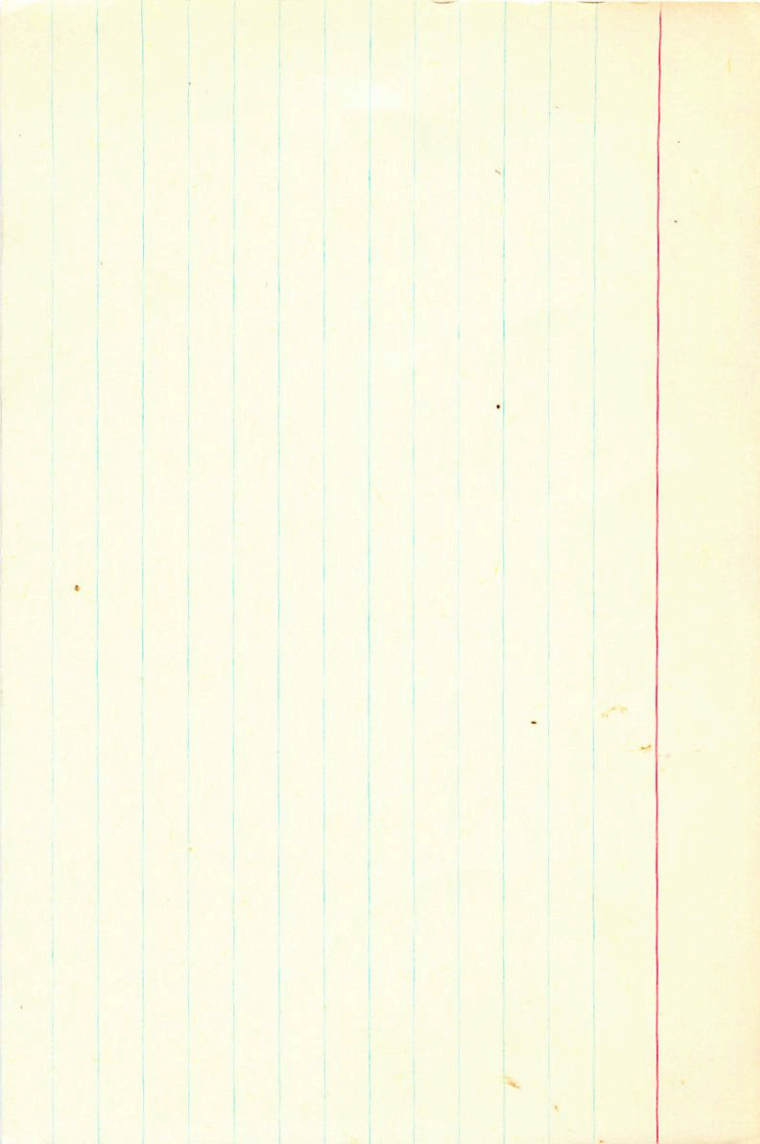
7454

+140229

1 28.2 +15 19

4146 -320

9.5-



429

01 28.4 ~~21~~

-43.6

-43° 35'

3.4015

γ Phoe

1787

839

+25.7 a

d

193.8

$v_0 = + 26 \text{ km}$

0.784 0.619 -0.050

-0.603 0.757 -0.306

0.152 -0.270 -0.250

1 26 11.724 1905.4 -43 34 26.13 1901.0

1 26 11.786 1929.7 -43 34 26.01 1929.7

823

1 28.5 -31 43 +220(4) C_s

405290

+25.1 (2)

32175

8.57 41.07 (2.20) NIB

$$\begin{array}{r}
 -.097 - .132 \text{ CP} \\
 + \quad 3 \quad - 3 \\
 \hline
 -.094 \\
 \hline
 -.135
 \end{array}$$

7090

+0118 ± 6.5 -090 ± 4.9
+0130 -089

9224 28.5 +29 09 CUE +14.18

858

7.3

1836

30.660
602
058

1899.0 +29 9 25.27
4.88
30.15

1595.8 -155

-090

30.433

434
376
+576

27.30 1427.91

177163 8049
-2
8728 287

2318 047

9687 9176 1984

2481 -3979 1010

9568

~~9994~~

~~1096~~

~~639~~

377526 487 274 +160 -050 +14.1 -044 +7 -00

-374

-060 017 148-041 -090 752 +123 +12 +5

+7+36

024

+7 +14-12

[+34 -25 -19]

025

+7 +36 -82

[+28 -15 -15]


3

R. A.	:	1.450
DEC.	:	29.150
M. R. A.	:	0.000
M. DEC.	:	0.000
DISTANCE	:	0.000
MODULUS	:	10
D. VEL.	:	0.000

q1	(U)	:	0.786
q2	(U)	:	0.234
q3	(U)	:	0.572
	dU	:	0.000
	U	:	0.000

q1	(V)	:	-0.601
q2	(V)	:	0.509
q3	(V)	:	0.617
	dV	:	0.000
	V	:	0.000

q1	(W)	:	0.147
q2	(W)	:	0.828
q3	(W)	:	-0.541
	dW	:	0.000
	W	:	0.000



9379 1 28.9 -59 55 7.96 +0.7 60E
6 882
(S) 1000000, (S) -1.2 ± 100, (S)

234
-3

+01011045 -02458.7

59.72 19058

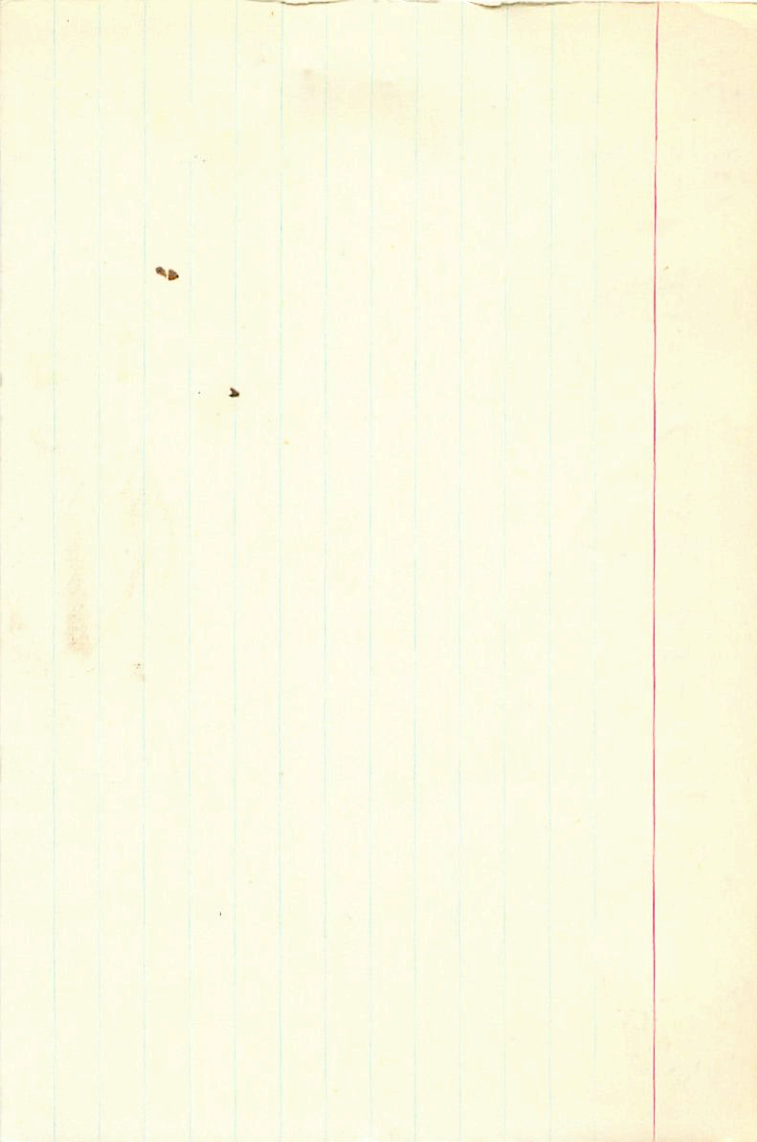
58.55000003

Copy

041574 +0124-006 (-60°)
+01015 +01017-003 (-590)

-014

45104
+01015
-011
-0125 → 60
15104



5204 4804

15500

11+
15.5

6E

6.5

5204 4804

5204 4804

5204 4804

15.5

9.5 h

15.5
18E 299

5204 4804

5204 4804

130

15.5

5204

30.504

985

5204

5204

5204

10

5204

45

11

RAD. VEL. : 1.000
 MODULUS : 1.000
 DISTANCE : 1.000
 R.A. : 1.000
 DEC. : 1.000
 P.M. : 1.000

P1 : 1.000
 P2 : 1.000
 P3 : 1.000
 P4 : 1.000
 P5 : 1.000

P1 : 1.000
 P2 : 1.000
 P3 : 1.000
 P4 : 1.000
 P5 : 1.000

P1 : 1.000
 P2 : 1.000
 P3 : 1.000
 P4 : 1.000
 P5 : 1.000

[Handwritten signature]

R.A. : 1.500
 DEC. : -30.250
 PM. R.A. : 97.000
 DISTANCE : 25:570
 MODULUS : 130
 RAD. VEL. : 12.000

q1 (U) : 0.78
 q2 (U) : 0.61
 q3 (U) : 0.09
 dU : 394.90
 U : 52.52

q1 (V) : -0.605
 q2 (V) : 0.786
 q3 (V) : -0.131
 dV : -132.135
 V : -18.749

q1 (W) : 0.158
 q2 (W) : -0.043
 q3 (W) : -0.987
 dW : 56.890
 W : -4.442

45

(536)

1 292 -30 15 6218 14

9349

-30.509

10065 7019

(112)

6.64 537 315 486 624 286 1.42.4 (2)

-09

-049

(E +16.00
-13)

1137 766 140 89

(140)

9356

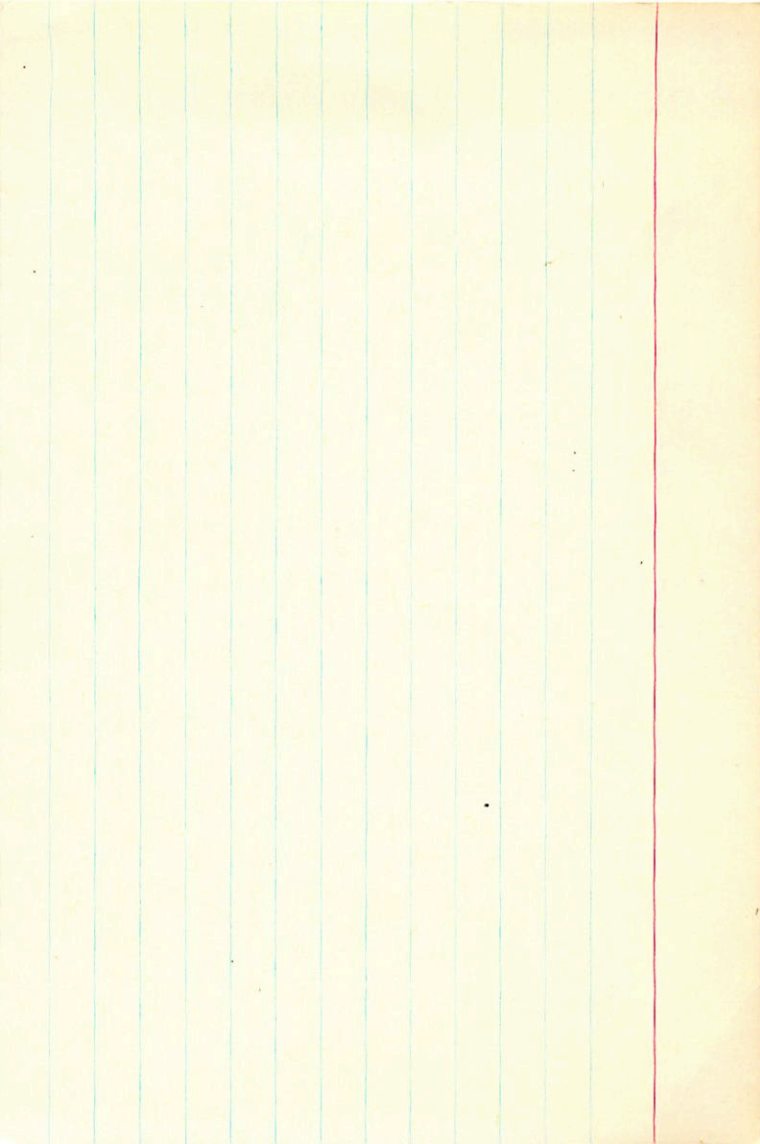
RR ut

$P=0.55$

1 29.6 to 0.5

AS-PO -PVC

W(6)



-26①

9468 1 29.7 -59 51 F5V

~~7.27~~

-6.115

1.50
1.3

4.5
1.75

7.98 147

.313 .114 .412 2.619②

1729.75

-0.288 14.1
+0.03

[2.7] 170 5. 750 -72 +15

-674 -520 +135

[9.7] 349