

Plan

4350

55425

11 18.7

54 14

85#

98718

15601

116

238.32 - 2.20

1045 D.53

389-15-54 C

-072 +092 +394 (3) 2696 (3)

$\frac{174}{568}$

103551-105571

Van Vuf

+13 Van

8310 - 9150 10399

016  
543

3.80 E +3  
-18 (5.1)

-61

-028-802

9679

-9996

D3514

MV -1.38

2523

-0189

0013

3551  
82

6<sup>4</sup> 30  
36

44572  
35

4398.000\*

(14)

11.000\*

18.700\*

-54.000\*

-14.000\*

-0.028\*

-0.002\*

3.9  
157

5.100\*

104.713

13.000

0.112

-0.339

+12

7.333

-0.047

-0.935

-19

-17.057

-0.054

0.106

-7

-4.289

Π Lem

11 18.7 -54 13

+13 ± 3(15)  
+16 ± 74

HRRV330

3.89 ± 0.17 0.62

-0.33 -0.13 6-c

W6939

-0.44 -0.11 N

-0.27 -0.04 E

-0.34 -0.09



FR

179-984-811 585 -034-009 +14 007 -11.4 -0.24  
006-001033-007 062 152 +8.2 -9.1 +1.5 01  
-1.9 +16.6 -13.8

4537

59664

11 47.3 -63 30 B3#

162714

16201

431-15-62 C

+092

-076 ~~+20~~ +350 (1) 2645 (3)

1243 1.44  
9100.04  
015 +008

F 7.0

16201

420 12 05.7 48 28

105416

59.734418 34.09 ~ 6085 8.68 0.72  
-017-00 ✓  
-017-00 ✓  
-017-00 ✓

9105 8976 }  
4132 4409 }

4615

553 -23.7

12

05.0

-0036

-0049

-0036

-50

017

-022

22 -011

-0043 24.1

-019 ± 35

105382

29.230 10.0

58.41

06.4

59173

17.02  
29.204

39.18

57.58

57.94

25383

-3407 -4.85  
0.72  
-0038 -0.21

17  
257

-26  
58.20

-0038

29.191

70.22

58.32

-9037

0385

PKB

-005  
186

-58  
58.40

-4281

24.265

55.14

58.55

034 -005

-37  
238

237  
58.92

9269

-924

0399

-0004 (0.50)

-0.193 (17)

3754

-3822

-0003

-0.15

-00395

-0389 [0370 -0150]

0087 5.00

4221  
102405

12 058

-59 26

205

2022e

Slno

9040-9040  
4276-4274

0392

~~9249-9249~~

0388

0023

~~3254-3222~~

40-2

0078

4124

-4003

-0124

-0356

~~9249-9249~~

-0640 -023

0334 -0084

03184

-00354 172

0359 -0237  
3524 -3831

0348

3310

-0022

-0381

~~033-013~~

9215  
3401

9258  
11554

16576.5 Bg

-0041 -023

9215  
9215

16576.5 Bg

-0039 -024

Sting

16576.5 Bg

-0041 -022



## CARTRIDGE OUT

12.100  
-59.400  
-47.000  
-8.000  
5.550  
129  
10.400  
  
-0.871  
0.239  
-0.430  
114.582  
10.291  
  
0.463  
0.104  
-0.880  
-69.711  
-18.134  
  
0.166  
0.965  
0.201  
-60.125  
-5.651

1/6/19

12 05.8

-50 28

28.539 00.4

~~2045-840~~ -007 ± 5.5

~~4544~~ 27

601 90.8

(45)  
2022  
069

~~48.373~~

70.10

~~28.58~~

-0035 ✓ -0084 FIC ✓

034-008

3.305 30

-0306 200.4

0312  
-0054

9040-9040 } 0343 303  
4256-4274 } -0066

4621 9190 12 06.6 -50 ~~021~~ 024 125  
26021

~~8.442~~ 5.7 -0034 ± 14  
-0038

-020 ± 14  
38.70 99.6

-47.53 -6.44  
8.25 024

123  
.618

-0038  
-0041  
-0046

1.01  
37.69

3.107  
8.65 024  
9.55 5.323  
-005  
45.360

70.11 38.58  
-58  
39.16

57.25  
45.410 38.67  
-37  
39.04

4.5402  
-003  
395  
45.491 39.89 38.42

17  
49040 -9048 0457 38.68  
4226 -4274 0125

00404 -0240  
-0182  
-0258 342  
-0338 -0338

Scha

4674

106911

12

15. ~~4/5~~

-051

+082

+461

(38)

-79

0.2 <sup>184</sup>

B54

(645)

2.714 (B)4

2.774

(60)

4.24-11-51 C

E+05

(-54)

~~4.09 = V<sub>0</sub>~~

~~-70~~

~~4.8~~

+230.50.9

will var?

+6

V<sub>0</sub> = 40k (5.3)

762

-01523

+0146 F104

~~2285~~

+77

+3

-043

+043 +019

-17

-55

MV -1.25

+6

-8

5.05  
102.5

4674.000\*

12.000\*

15.400\*

-79.000\*

-2.000\*

-0.843\*

0.019\*

~~5.000\*~~

87 4.8  
91.2

144.544

23.000

0.174

-0.455

14 14

13.649

-0.126

-0.819

-29 -24.3

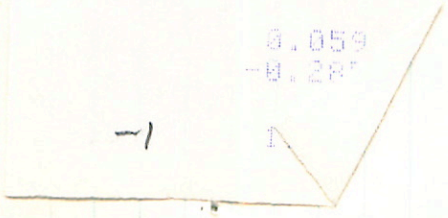
-37.896

0.059

-0.287

-1

1



10000

9624

12 154 -79 01

106

106511

424-11-51 C

10000  
-051101  
481  
2.714

92 461  
184  
643

405

3809

12000

92 461

405

120510

1230

184  
643

~~10~~  
505

10000  
-051101  
481  
2.714

8323

-9799

5543

7995

4674.000\*

12.000\*

15.400\*

-79.000\*

-1.000\*

-0.043\*

0.019\*

5.050\*

102.329

23.000

0.174

-0.499

6.315

-0.126

-0.819

-31.762

0.059

-0.284

-0.493

---

4987

164387

61281

12 31.3 + 70 04 R6II

-58.14 11.42

6.85 0.51

9650 -4457

-2615 0423



4978  
86m

100490

55710

12.12.12

85-

25

-3668 10.72

8.96 0.60

-080 106 296 2694

→ -080 + 106 + 296 + 2694

(S12)

1185  
105

22ma (17301)

13 45.5 499 34

(98) ↓

832

257  
-18.8

HR 5151 PAGES 23, 159  
PAGES 34, 241  
120015

194 -18 -65 262  
1.86. -0.19 -65 75

2694 (S12)

-18.8

EN 827

155 -185 308

2737

(S12)

10141 FIVY

(43)

8.8

-1222 -0105

-15

-10.56 2144

3.6  
1.85

+12

-01272

+34

1226

106 256

7.95

2235 0274

+2

3.12

-1249 7376-9915  
+12  
-9932 -1298

10007

2

-205

-0125.56 +3 26.55

+12

-695

7034/4878  
-5102-1555

-1163  
-116-016

MJ -132

1795

3 km  
HP4674  
106983

12 15.7

-6343

R2.5E

$$V = 26.9$$

$$P = -16.4$$

+13.0 ± 0.5

7687

1896

-6588

1164

0223

40.7

-6443

-0490

0208

3.44

-3.836

-3

0.909

0.146

7

-21.055

-25

0.410

-0.398

1.00

1.22

15.734

1.92

0.078

0.398

-10.900

41.687

501

3.100\*

3.5

-0.012\*

-0.122\*

34.000\*

49.000\*

45.500\*

13.000\*

5191.000\*

C. 1310000 03\*

5191.000\*

13.000\*

45.500\*

49.000\*

34.000\*

-0.120\*

-0.010\*

3.600\*

52.481

-10.900

0.397

0.078

19.978

-0.386

0.410

-24.707

0.140

0.909

-2.549

R.A. : 13.750

DEC. : 49.600

R.A. : -188.500

DEC. : -10.500

TANCE : 2.540

DULUS : 32

VEL. : -18.800

-177

1 (U) : -0.753

2 (U) : 0.653

3 (U) : 0.079

dU : 403.622

U : 11.514

M50

q1 (V) : 0.622

q2 (V) : 0.667

q3 (V) : 0.410

dV : -393.311

V : -20.371

-49.97

q1 (W) : -0.215

q2 (W) : -0.358

q3 (W) : 0.909

MP : 142.180

W : -12.505

11.80

285  
37

+14

-19

-5

5 cm 12 55.3 49 5.7 B2E

10823

108483

14104783

$v_0$  3.55  
 $v_{-0.06}$  -0.82

2.654

$\approx 33.49 - 12.41$

7.36 0.67

-0043 -0.243

-00382 -0.181 6.0

~~-00290 -0.225~~  $f_{44} + 11.6^{*}12$

-0368

W

9346 -8.034 0.343  
2557 -5.046 0.058

~~-00248  
12 + 14  
12 + 14  
12 + 14  
12 + 14~~

-036 0.114

~~-0240~~

9491

~~9017~~

~~0385~~

~~0024~~

~~-023 -0.17~~

3298

~~1324~~

~~1.7~~

~~0053~~

411

-3

0027±30 -026±26  
-0036  
-0050  
-0044  
14.34  
14.34  
14.34  
14.34

19.55 9.3

$\frac{111}{6.8}$

19.43

70208

$\frac{1}{9.47}$

19.43

14.74

ce

590

10.41  
ce  
ce

19.53  
14.74

$\frac{111}{6.8}$

14.74  
ce  
ce

4743.000\*

12.000\*

25.300\*

-49.000\*

-57.000\*

-0.034\*

-0.014\*

6.000\*

158.489

11.600

0.079

-0.475

6.970

-0.066

-0.853

-20.385

-0.088

0.216

-11.493

4743.000\*

12.000\*

25.300\*

-49.000\*

-57.000\*

-0.034\*

-0.014\*

6.000\*

158.489

11.600

0.126

-0.475

14.497

-0.090

-0.853

-24.212

-0.079

0.216

-10.060

*lm*



Bms

4844

40.40 10.31  
10.48 0.65

12 432 67 50 8254

D2-15

110573  
17348

BDLH-011

3.09-15-74C  
-050 +098

+274  
~~196~~  
~~194~~

3 26723

BD [-035-011]

3  
~~196~~  
~~194~~

Am 20 11

9103 9236  
4140 3835

0372  
8

-024 -018

+048

6083

544

+10 +

Yearly

+3  
VG=300375

4920

-22  
15  
525

-1.5

8797-9130  
4755 4670

034 -0411  
4755 4670

-030 = 2.7  
-023  
-024  
K85  
577 985

1.84  
3.93

9.5  
me-  
P8.5

4914  
P8.5  
me

9820-2500  
9820-2500  
9820-2500  
9820-2500  
9820-2500

-0046 ± 3.0  
-0068  
-0084  
8900  
2.0

11.520  
23.5  
55.5

69.65

11.26  
24  
8.15  
me

89.58

11.50  
22  
8.15  
me

47.4  
4.8  
5.5  
7.1

11.44  
24  
8.15  
me

-8.227

-0.091

-0.065

-18.024

*28-*

-0.840

-0.086

11.037

-0.534

0.146

10.000 *121*

112.202

5.250\*

-0.013\*

-0.036\*

-50.000\*

-67.000\*

43.200\*

12.000\*

4844.000\*

-103 061-091 2159 ✓  
-0054 ± 1.6 -026 ± 14

~~4878~~ 43 12 445 -55 2 ✓ 10058 -025 ✓  
4853 43 2054 2054 -032

4853 44 47058 34 56.94 949

~~Blue  
Green~~

51 PPK  
1135 50 -1260

47058 34  
~~46905219~~  
304  
55.03 -

~~4476-1135~~

46505 2008 5209

~~9824 2267~~

19  
921  
637 ✓  
97.43

935-  
3526-4111 ✓  
-351624916

48848 6875 ✓  
19  
289

9111 8793  
4122 4713

917  
47143 40.21 86.83  
-34  
-157

83  
3297-2444-1007 665

0485 ✓  
017-1011  
11-30

46881 2407  
+18  
1.09  
57.98  
56.75 ✓

51 ✓

965  
19 | 41.010  
-34  
5208

R.A. : 12.750  
DEC. : -59.400  
PM. R.A. : -83.000  
PM. DEC. : -14.000  
DISTANCE : 5.100  
MODULUS : 105  
RAD. VEL. : 0.000

q1 (U) : -0.843  
q2 (U) : 0.043  
q3 (U) : -0.536  
dU : 165.954  
U : 17.377

q1 (V) : 0.538  
q2 (V) : 0.039  
q3 (V) : -0.842  
dV : -110.273  
V : -11.547

q1 (W) : 0.016  
q2 (W) : 0.998  
q3 (W) : 0.056  
dW : -69.353  
W : -7.262

63003

1209/26

12 5-16 -56 54 B2D-10

9844/8

R 57 me

W m m

63003

-30.95 13.55 844 D.58 112092 4844' m

63003

-32.35 10.25 903 OLM 112091 M m

9943

29419

0332 8341

0389

-3388

0025 01800

R.A. : 12.850  
DEC. : -56.900  
PM. R.A. : 0.000  
PM. DEC. : 0.000  
DISTANCE : 0.000  
MODULUS : 10  
RAD. VEL. : 0.000

q1 (U) : -0.836  
q2 (U) : 0.048  
q3 (U) : -0.546  
dU : 0.000  
U : 0.000

q1 (V) : 0.546  
q2 (V) : 0.087  
q3 (V) : -0.832  
dV : 0.000  
V : 0.000

q1 (W) : -0.008  
q2 (W) : 0.995  
q3 (W) : 0.099  
dW : 0.000  
W : 0.000

4540 . 18 034 -48 12 852

113703

177556

68445

14115

24.72  
7.86

00

-029-019

+14.2

8 W

4.71 -14 -57 ✓  
4.70 -14 -57 ✓  
4.70 -14 -57 ✓  
-063 7058 7352 (3)

196  
568

2.254  
2.710 (3)

044

-0024 -024 88M

-024-024

~~E + 4.58~~  
V<sub>0</sub> = 4.58

-18 (5.7)

-10

M<sub>V</sub> = 1.14



$-0025 = 4.2$   
 $-03323.4$   
 $-027.0.27$   
 $45.08$   
 $00.7$   
 $163$   
 $-058$   
 $42.95$   
 $-627$

22.135 6.7

$\frac{152}{287}$   
 $\frac{152}{287}$

22.072

$\frac{17}{664}$

64.50

45.01

~~00500312~~

$\frac{32}{45.33}$

5423

$22.140$   
 $\frac{-35}{105}$

44.55

$\frac{-35}{44.50}$

-00327

$-030$   
~~0249~~

$22.194$   
 $\frac{-27}{102}$

35.0

44.48

$\frac{41}{44.89}$

-0037

22.072

66.50

$45.05$   
 $\frac{15}{45.22}$

4940.000\*

13.000\*

3.400\*

-48.000\*

-12.000\*

-0.029\*

-0.019\*

5.700\*

138.038

14.200

0.104

-0.562

6.399

-0.099

-0.789

-24.895

-0.079

0.248

-7.452

4940

113703

13 03.4 -48 12

050

-067 107 378 2.718

$V_0$  460

$(u-a)_0 - 0.62$

24.7% 24.5%  
7.65 0.72

271036

5.5

-029 -019

-0293 -0159 <sup>1002.5</sup> 1124

+142110

1.6

6.2  
44

2771

~~2771~~  
-5382

-0296

-025 -016

1305

48.2

-50

-21

0391

0220

0200

~~024 -019~~

+142

0325

3.6

644-859440

91004-8782-  
2085-8776

-0051

-0035 ± 42

~033 ± 3.4

-027

22.13 ✓ 6.7

45.08 0.7

-038

$$\frac{1579}{8} = 197.375$$

$$\frac{1039}{1038}$$

$$\frac{163}{43.48}$$

-027

22.072 (69.50)

45.01

$$\frac{7}{0.64}$$

$$\frac{32}{45.33}$$

(39.01)

$$\frac{22.194}{32} = 0.6935625$$

$$\frac{44.44}{44.89}$$

-0037 -031

-0033 -025

-0329

(54.33)

$$\frac{22.140}{32} = 0.691875$$

$$\frac{44.55}{44.89}$$

-033 -021

65291

5035

116087

18857

1039-D143

FRS

3091-5311

94110

32403

99091

2815

74  
445  
IL  
2341  
10000  
0093  
9092  
472

245  
13  
15.4  
-60  
44

B3E  
B2.7E  
B5E

cos 4.52 - 14 - 58

-065 + 1035 - 1271

Expair

5034

533

6.16 + 61 - 58 C

232

2641 (3)

3350  
9220  
0.55

6.16

MV  
u  
545

0341

-009930

-5320

73670

4401  
4599

5031.6504 60'

2707

2654 (3)

-45

18

46

584

22.957

159  
—  
116

22.828

18  
—  
846

112

1040 51  
—  
1045  
—  
1032  
—  
1013

2024

27.10

32  
—  
8742

23.125

22  
—  
022

3905

8613  
—  
45  
—  
8708

22.895

14  
—  
44

55.2

37.03

76  
—  
324

36.78

93  
—  
38.88

-0.24

-0.23 -73  
—  
-12.68 -28  
—  
-12.91 -34

-0.24 ± 3.5

R.A. : 13.300  
DEC. : -60.450  
PM. R.A. : -65.000  
PM. DEC. : -18.000  
DISTANCE : 5.840  
MODULUS : 147  
RAD. VEL. : 6.000

q1 (U) : -0.800  
q2 (U) : -0.070  
q3 (U) : -0.595  
dU : 127.575  
U : 15.210

q1 (V) : 0.589  
q2 (V) : 0.094  
q3 (V) : -0.803  
dV : -97.511  
V : -19.173

q1 (W) : -0.112  
q2 (W) : 0.993  
q3 (W) : 0.034  
dW : -67.709  
W : -9.765

25-05-85

4877 25.3 5.11  
8.0

2 vi

65994 13

22.6

10 59 1009

-114 +0 80 +0 118

(3)

2.67 @

5056 684

7773

0446 0591

0.97 -23

-94

51526

0530

11658

1730

1261

0.97 -23

-94 c

1117

10.08

462505

1117

3.30

65494

124.50

8173

0.98 -23

-51

2173

26.2

4.6 517

1117

3.30

-0410 -0282

0291

-0334

1100

12.44

0.81

4.6 517

1117

3.30

9775

0447

-0433

-042-029

1117

3.30

1117

3.30

1117

3.30

3.30

9816 27906

5831

1117

3.30

1117

3.30

1117

3.30

F = + 2

V0 = 0.42

-25

445

MV -3.53

1117

3.30



5056, 066-

R.A.:	13.080	13.400
DEC.:	22.600	-10.900
R.A.:	-10.000	-41.700
DEC.:	-54.000	-28.200
STANCE:	-0.041	5.120
IDULUS:	-0.029	106
VEL.:	4.600	-5.000

4.2  
 83.175  
 1.000

1 (U)	0.092	-0.791
2 (U)	-0.455	0.404
3 (U)		-0.460
DU		99.504
U		12.816

46  
 7.736

1 (U)	-0.205	0.597
2 (U)	-0.438	0.675
3 (U)		-0.434
DU		-206.059
U		-19.607

-12  
 -17.704  
 -20.91

1 (M)	-0.060	-0.135
2 (M)	0.777	0.618
3 (M)		0.775
DM		-56.371
M		-2.881

-3  
 -2.194

7.7

3 cm

51326657

13 367 -53 12

B1E

B1E

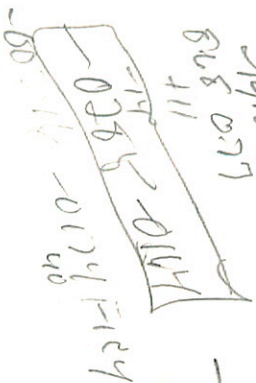
118716

18458 JAN 4

14160

BUS 0.77

111



2.30 -22 -93 C

2.30 -22 -92

2.30 -22 -92

-094 +057B +013

030 011

114

37

122

W

2647

3 2610 3

+5.6 B

-3.18 MV

$\frac{2.22}{540} V_0$

$E + 4 = 5.0$   
 $V_0 = 2.18$

-24

-96

-6221

-622013

9458 -9956

2994 -6361 0194

6000

32

MV -3.46

5132.000\*

13.000\*

36.700\*

-53.000\*

-12.000\*

-0.022\*

-0.013\*

5.600\*

5.4  
120

131.826

5.600

0.083

-0.638

+6

7.366

-0.078

-0.755

-14

-14.549

-0.041

0.152

-4

-4.517