

62-482-157665 ✓  
11. 50. ✓ -26 20  
A7 III

Q.M 3 ✓ -8.13-12.92

306 0.77

816 2 ✓  
221

544 -2205 | 0339  
-0193 -9754 | -2007

74 0.1 ✓  
6.80 2345 ✓

R. A. : 16.850  
DEC. : -76.350  
PM. R. A. : 0.000  
PM. DEC. : 0.000  
DISTANCE : 0.000  
MODULUS : 10  
AD. VEL. : 0.000

q1 (U) : -0.195  
q2 (U) : -0.715  
q3 (U) : -0.671  
dU : 0.000  
U : 0.000

q1 (V) : 0.604  
q2 (V) : 0.452  
q3 (V) : -0.657  
dV : 0.000  
V : 0.000

q1 (W) : -0.773  
q2 (W) : 0.533  
q3 (W) : -0.344  
dW : 0.000  
W : 0.000

222526

73 362 -48 533

108322 73.5

7004 185<sup>55</sup> 183<sup>038</sup> 141<sup>44</sup> 700

7002 700-083 14041 485

9933 9815

0555 8284

Stamp

1156-1916

0134 0605

7003 0188 0183 0641

70034 -019

14.33-25 2646

437

0794

116049

119

75078 -615 PPM

76.89 -26.59

1207 139

-0058

-19

0819

437  
437  
437

082-019

0841 09

-105

26.5

081015

0134

437

-29.95 26.95

-29.95 26.95

PC 3 73

R.A.	:	23.600
DEC.	:	-45.900
PM: R <sub>0</sub>	:	112.000
DEC:	:	-19.000
DISTANCE	:	4.370
MODULUS	:	75
RAD. VEL.	:	3.500
		3.1
q1 (U)	:	0.875
q2 (U)	:	0.319
q3 (U)	:	-0.364
dU	:	314.748
U	:	22.273
q1 (V)	:	-0.396
q2 (V)	:	0.904
q3 (V)	:	-0.161
dV	:	-236.992
V	:	-18.294
q1 (W)	:	-0.278
q2 (W)	:	-0.285
q3 (W)	:	-0.917
dW	:	-83.452
W	:	-9.454

22.41

1923

-907

224890

+72,1135

23 591 +73

20  
13

6.50 -0.24 ~~48~~ -1.59  
1.244

7554 -12.06

+0165 ±43  
+0172 -005

~~1000~~ +006

128

1500

11452  
-837  
3.625

95.5 +0176 -005

0.21

97.4

589  
3832885

-9 May 27 km/hr

4.559

56.71

1.46

$\frac{-3.2}{1.89}$

6.50 +018 +012

3

$\frac{40}{100}$   
 $\frac{100}{100}$

5.71

$\frac{+7}{1.53}$

9.2 ~~1500~~ 2.59

x.2

4.752

65.61

1.31

$\frac{+4}{1.37}$

0174 -006

0173 -004

2595 -003

2594 -007

$\frac{30}{782}$

261

9812

9942

0011

0153

7045

075-007

5.6

0704

+1.5

1280 38 2883

0120

460

56083

4424 11 26.9 + 57 00 A22 + 82

99859

15760

11.34  
11.14

18483  
14.73

2379

6.31 + 18 + 11 599 -

2.844 (3)

090 19 939

2844 2570

6028 - 026 1240

115

1.04

BWS1

-0115 89

-094-039

17  
-34

692 - 42.11 4918 2.844

4.81

9916 - 9802 - 10994

020 6.19

+ 4.2

- 12.97 - 1982 / 0153

R.A. : 11.450  
DEC. : 57.000  
PM. R.A. : -172.000  
PM. DEC. : -39.000  
DISTANCE : 4.810  
MODULUS : 92  
RAD. VEL. : 9.200

q1 (U) : -0.873  
q2 (U) : 0.214  
q3 (U) : 0.438  
dU : 348.246  
U : 35.933

q1 (V) : 0.375  
q2 (V) : 0.869  
q3 (V) : 0.324  
dV : -327.088  
V : -26.991

q1 (W) : 0.311  
q2 (W) : -0.447  
q3 (W) : 0.839  
dW : -55.468  
W : 2.636

420.5 AM 530 213

405 (19)  
July 16

27

15444

3 10.2 -1 23

FOTB

AM<sub>2</sub> 2-416

HRGL2

GL3838

9464

+320

1362.192 400 ② SPAC 2.020 ③ CT

5.08 + 58 + 675 2349

5.05 + 57 + 11 2374

5.07 + 575 + 69 ⑤

[m] 257 HL

+ 0.1309 0628

364350  
-0631

6. PINK

09308-0663 F124

[c] 328 184

1.30 + 18.9 - 16.0 - 7.1

SR  
+371  
+356 - 241 +349

1961-0663

+146-114

1/8.32

+371

1455

3.15  
-1.4

197-0663

821.0

30.125

4586 9542 2053  
7526 -144 -m81

-66  
2.0

298.085



9.2.058\*  
 2.000\*  
 13.200\*  
 -1.000\*  
 -23.000\*  
 4.196\*  
 -0.066\*  
 2.350\*  
 29.512  
 13.300

Plot and Survey  
 Apr 5 3d, 2003 147L

690, 55 04/2003

954 19343 ~ 69.23  
 4/16/99 0.75  
 -0.9  
 053.00 2786

22.574 <sup>18.0</sup>  
 -3.853  
 -3.010  
 -25.499 <sup>14.2</sup>  
 3.338  
 -3.735  
 -3.479 <sup>7.9</sup>

R.A.: 3.15  
 DEC: -1.40  
 A: 5.82  
 D: -12.44

SINL: 0.6585  
 COSL: 0.7526

SINT: 0.9542  
 COST: -0.2993

14983

16 355

26 3

B9 IV

(81489)

- 6.15 - 11.68  
4.71 1.14

8.42 0.69

8.00

6.50

6841 - 4402 / 0132  
- 7294 - 8939 / 0000  
4.68 0.05 205 19.60

9668 - 3189 / 0350  
- 4216 - 9478 / 0000

~ 276 1910 3.39  
~ 2.9

ISL: .4210

INT: -0.3187

OBT: -0.9478

.A. : 16.500

EC. : -26.900

.A. : 0.000

EC. : 0.000

NCE : 0.000

LUS : 10

EL. : 0.000

(U) : -0.272

(U) : 0.055

(U) : -0.961

dU : 0.000

U : 0.000

(V) : 0.628

(V) : 0.767

(V) : -0.134

dV : 0.000

V : 0.000

(W) : -0.729

(W) : 0.639

(W) : 0.243

dW : 0.000

W : 0.000

149883

12 35/5 24 53

BS IV

81487

-6.15 -11.65  
4.21 1.14

9068	-3187	} 0130 0054
-4216	-4478	

5/27

84934

156206

17

1004

200

#

ASB  
A25

1000

31

14

10.26 - 35.24

10.89 1000

7004

-2071/0406

-9132

-9783/-0000

0.5 11.37 - 85 24.15

9380  
3767  
-2997/0401  
-9547/0018

78196

15 3-4-8 -31 35

ADD

19281

-1926 -2789

8.98 0.92

7876

1160

834

9558

-2940

-5992 / 0329

-5021 / 0025

-96 2325 414

-4932 / 0328

-8964 / 0038

D: -

SINL: 0.7878

COSL: -0.6160

SINT: -0.5972

COST: -0.8021

R.A.: 14.900

DEC.: -31.600

PM. R.A.: 0.000

PM. DEC.: 0.000

DISTANCE: 0.000

MODULUS: 10

AD. VEL.: 0.000

q1 (U): -0.587

q2 (U): 0.072

q3 (U): -0.806

dU: 0.000

U: 0.000

q1 (V): 0.666

q2 (V): 0.609

q3 (V): -0.431

dV: 0.000

V: 0.000

q1 (W): -0.461

q2 (W): 0.790

q3 (W): 0.405

dW: 0.000

W: 0.000

53143

6 59.4 -61 16

+217 20.4

-161.19 264.54  
July 3 0.54

9224 251 2.1

6.87-10.81 1.58 NOISE -2

+213 20.4  
Cg(15)

Hand (33640)

(054)

410  
464

ASD way

-175 +249

Cgs

+227 -18 -17 .050  
+34 -17 -18 .040

171 200

10214 261

682482 323318

151 6261

AD 204

-386 200

-314  
261  
1,117

7914 -3846 200 1.13

037 212 C(17)

+213

6363

9230 0904 +213



-0243 ± 7.8 + 249 ± 69  
-0232 + 264

24.963 1502.9 61 16 6.10 18558

$\frac{1145}{108}$

26.

7.539  
17.580

25.519  
 $\frac{-2.75}{4.910}$

485  
 $\frac{-2.25}{4.85}$

25.147  
 $\frac{-2.113}{1.113}$

34.9

5.98  
 $\frac{16.25}{2.25}$   
 $\frac{16.25}{80}$

-12.50  
 $\frac{18.00}{2.65}$   
1929.33

-785  
 $\frac{10.5}{10.31}$

14.95  
 $\frac{8.48}{10.17}$

5.7 1946.2  
 $\frac{-5.4}{4.3}$

7553  
37.8  
38.0

Observer:

Date: / - /

STATION	CODE	DECK	NO.	DATE	TIME
	DEC		7	00	00

DISTANCE : 1.130

MODULUS : 17

AD. VEL. : 21.300

q1 (U) : -0.291

q2 (U) : 0.956

q3 (U) : -0.027

dU : 1414.619

U : 23.233

q1 (V) : -0.359

q2 (V) : -0.135

q3 (V) : -0.923

dV : 125.268

V : -17.560

q1 (W) : 0.887

q2 (W) : 0.259

q3 (W) : -0.383

dW : -400.946

W : -14.904

Comments:

R.A.	:	7.000
DEC.	:	-61.250
PM. R.A.	:	-314.000
PM. DEC.	:	261.000
DISTANCE	:	1.170
MODULUS	:	17
rad. VEL.	:	21.300
q1 (U)	:	-0.291
q2 (U)	:	0.956
q3 (U)	:	-0.027
DU	:	1391.326
U	:	23.276
q1 (V)	:	-0.359
q2 (V)	:	-0.135
q3 (V)	:	-0.923
DV	:	90.215
V	:	-18.122
q1 (M)	:	0.887
q2 (M)	:	0.259
q3 (M)	:	-0.383
PM	:	-314.805
M	:	-13.553

47955

16 228 -20 27

1895

8046B

814 0.25

930

11.24 -15.05

6040 1.01

6454 5101 / 0215

7186 -8661 / 0004

9103 3610 0511  
9139 9326 / 0004

6007 -143 2195

..9761  
-0.2173

A :

R.A. :	16.400
DEC. :	-26.450
R.A. :	0.000
DEC. :	0.000
DISTANCE :	0.000
PERIOD :	10
VELOCITY :	0.000
(U) :	-0.294
(V) :	0.066
(W) :	-0.954
dU :	0.000
dV :	0.000
dW :	0.000
(U) :	0.633
(V) :	0.761
(W) :	-0.143
dU :	0.000
dV :	0.000
dW :	0.000
(U) :	-0.716
(V) :	0.646
(W) :	0.265
dU :	0.000
dV :	0.000
dW :	0.000

M6

00 11.9 - 8 03 +2.1 =

H91.014

ADD UP

+0036 ± 54 +009 ± 43

54158 8.9 +0044 +007 3102 9.9

$\frac{148}{010}$   
+0042 +007  $\frac{36}{38.38}$

54.274 -11 30.80

65.39

$\frac{203}{203}$  65.6  
+05  $\frac{3075}{1457}$

+0043 +007

+0047 +006

+002

54154

3426

31.29

9.8

6.65

$\frac{131}{117}$

$\frac{3105}{24}$

065 +002

54.273

90.60

30.80

$\frac{-9}{264}$

0614  
-0038  
-2.20  
5.81

R.A. : 0.200  
DEC. : -8.050  
PM. R.A. : 65.600  
PM. DEC. : 2.000  
DISTANCE : 6.750  
MODULUS : 224  
RAD. VEL. : 0.000

6.8  
62.3  
31.8  
61

q1 (U) : 0.868  
q2 (U) : 0.495  
q3 (U) : 0.044  
du : 271.946  
u : 60.881

q1 (V) : -0.476  
q2 (V) : 0.803  
q3 (V) : 0.360  
dv : -138.789  
v : -31.071

q1 (W) : -0.143  
q2 (W) : 0.333  
q3 (WM) : -40.782  
w : -9.130

98% 2410

(+33)

2000	865-	1015-
1000	8016-	9507

96 ppm + 5  
pH 7.6

0.5 0.5 0.5

1000

1000

10.57 0.83

3.24 3.24

2410

0.345

14 303 41 57

1000 1000

(10.57)



MN 240 637

HA 281, 151

(06, 425)

AS 421, 705

AS 437, 636

HA 243, 532

294 135

1067

0 124 + 8 32

Ag 15

revised

page 10

Aug 1971

9767 2446

6-24 hdb

1.78

196 176 709 2.737

Woe 200 436

12.47

243 186 May 215 3 4361

.941

1973

9980

9737

7/12

0.40 2003 (1100)

0629

-2279

3<sup>rd</sup> 6

3<sup>rd</sup>

Apr 5 99, 133

MacKormack B.

Apr 5 120 19 34

Water B

91, 905

Tom

Feb 121 Friends 1969



R.A. : 0.450  
 DEC. : -15.150  
 P.M. R.A. : 152.000  
 P.M. DEC. : -34.000  
 DISTANCE : 3.150  
 MODULUS : 43  
 RAD. VEL. : 4.000  
 q1 (U) : 0.859  
 q2 (U) : 0.511  
 q3 (U) : 0.037  
 DU : 514.928  
 U : 22.113  
 q1 (V) : -0.505  
 q2 (V) : 0.833  
 q3 (V) : 0.227  
 DV : -485.497  
 V : -19.804  
 q1 (M) : -0.085  
 q2 (M) : 0.213  
 q3 (M) : -0.973  
 DM : -93.548  
 M : -7.884

Product Manager -  
Very Neat

-4.4 507  
-1.2 400.3  
ADG, 19, 347, 1989-44  
ADG 570, 2387  
ADG (6)  
ADG 11

5728

4212

071 766 941 2861

7518-2103

hje 3.913

1192 0.95

9944

9413

07774

Am 25

> 0119

-3376

ADG

12172-42 2900

42.0

PM. DEC. :  
 DISTANCE : 0.001  
 MODULUS : 10  
 RAD. VEL. : 0.00  
 q1 (U) : 0.00  
 q2 (U) : 0.00  
 q3 (U) : 0.50

DU : 0.000  
 U : 0.000  
 (U) : -0.548  
 (U) : 0.152  
 (U) : 0.823  
 DU : 0.000  
 U : 0.000  
 q1 (M) : 0.008  
 q2 (M) : 0.984  
 q3 (M) : -0.177  
 MP : 0.000  
 M : 0.000

250

00

50g

+52

25

-11

6728

4212

6226

-007

1,228

1364

144

071 213 267

941 284

4140  
150

ADPH 1218-431

10083-022 Century

1500

267

927

076.18 2103  
1172-011

076-022

124

-22

471

-11

9449

9413

07900779

-0120 -3376

06500054

395 284

414

4145 290

4144

415 290

R.A. : 0.850  
 DEC. : 52.400  
 R.A. : 124.000  
 DEC. : -22.000  
 DISTANCE : 4.710  
 MODULUS : 87  
 D. VEL. : -1.100

q1 (U) : 0.836  
 q2 (U) : 0.091  
 q3 (U) : 0.540  
 DU : 220.571  
 U : 24.020

*4.825*

q1 (V) : -0.540  
 q2 (V) : -0.100  
 q3 (V) : -210.000  
 V : -19.489

q1 (M) : 0.000  
 q2 (M) : 0.904  
 q3 (M) : -0.177  
 DM : -99.853  
 M : -8.542



1405735 10m 8" paper 11 800ft. 8 9.2

80

5128 ✓ 0 50.9 + 52 25 6.2 9 A 8 - 1.12

503

1 1/4  
- 2 1/8  
4 1/8

+ 6080 ± 3.0 - 0.23 ± 2.5  
+ 6083 - 0.24

ASm

6-C1068

20.4

Q71 266 941 2861  
19023 + 52 25

6.44 1893.6

405785

50

5-3.664

19023

1.30

Q71 266 941 2861

- 382

+ 60865 - 0.23.5

7.74

+ 60979 - 0.205

16 57.5 1428.4  
8 9.50

ASm  
2861 2861  
49

27.27

0744

25 7.34

26.070

074-025

12.095

0846

5-0 33.340

32.9

6.4

0728

5-0 33.340

32.9

6.24

0922

28.78

5-0 33.340

32.9

6.9

006

35.5

5-0 33.340

32.9

6.9

5-3.632

598

6.64

6.74

1945.59

9444 9413

0922

- 0.00

598

6.64

6.74

1946.56

-0120 -3376

0922

- 0.00

598

6.64

6.74

1940.2

627

6.72

1940.2

R.A. : 0.850  
DEC. : 52.400  
PM. R.A. : 146.000  
PM. DEC. : -25.000  
DISTANCE : 4.180  
MODULUS : 69  
RAD. VEL. : -0.400

q1 (U) : 0.836  
q2 (U) : 0.091  
q3 (U) : 0.540  
dU : 342.446  
U : 23.258

q1 (V) : -0.548  
q2 (V) : 0.152  
q3 (V) : 0.823  
dV : -249.429  
V : -17.427

q1 (W) : 0.008  
q2 (W) : 0.984  
q3 (W) : -0.177  
dW : -113.355  
W : -7.700

301 ~~11-2~~ Full ~~11~~ 7-18

6258 008 for 01/8 full

4974

121 121/18 16 answer

24064 NO

12242 24064

1766 072

1.5

982 9728 1255  
923 2317 2012

153 193 809 2794

1256 12.83

12.11

~~12.283~~ 12.3 27.40

0.9728  
SINT :  
COST -0.2317

7773

R.A. : 1.000

DEC. : 1.200

R.A. : 0.000

+DEC. : 0.000

TANCE : 0.000

ADLUS : 10

VEL. : 0.000

11 (U) : 0.826

12 (U) : 0.477

13 (U) : 0.361

PU : 0.000

U : 0.000

q1 (U) : -0.563

q2 (U) : 0.737

q3 (U) : 0.375

PU : 0.000

U : 0.000

q1 (M) : 0.043

q2 (M) : 0.479

q3 (M) : -0.877

PM : 0.000

M : 0.000

26.6 } 16.5' prepared  
9.0 } 13.1' 107.1' prepared

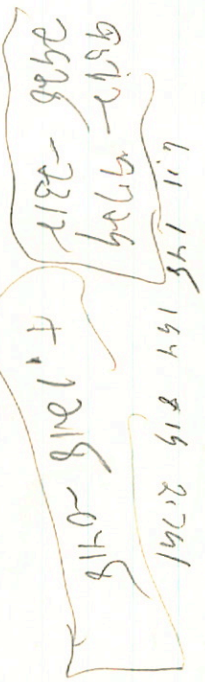
6288 / 01.2 +010C 6.1 dAm +568

606 (301) 9.0 dcs +598  
+8.7a

1251 / 14.444 -1502.4

A05875 / 70081 -033N3D

+0081713 -037712 G.C. work N3D



PR3

14419 (1821) 56.799

122  
-42  
339  
+88



6.44

22.9

R.A. : 1.000  
 DEC. : 1.100  
 PM. R.A. : 122.000  
 PM. DEC. : -42.000  
 DISTANCE : 3.370  
 MODULUS : 47  
 RAD. VEL. : ~~8.800~~

q1 (U) : 0.826  
 q2 (U) : 0.478  
 q3 (U) : 0.300  
 dU : 382.253  
 U : ~~20.683~~

q1 (V) : -0.563  
 q2 (V) : 0.738  
 q3 (V) : 0.374  
 dV : -472.068  
 V : ~~-18.997~~

q1 (W) : 0.043  
 q2 (W) : 0.477  
 q3 (W) : -0.878  
 dW : -70.364  
 W : -11.046

1.000  
 1.100  
 120.000  
 -38.000  
 4.000  
 63  
 5.700  
 0.826  
 0.478  
 0.300  
 383.488  
 25.905  
 -0.563  
 0.738  
 0.374  
 -452.752  
 -26.437  
 0.043  
 0.477  
 -0.878  
 -61.721  
 -8.898

2050

-19.22

-10.52

307

424

1 01.2 701 06

PAR

+235

1.97

+206

100512-0415

275

153 19 5709 2745

472 30L 310 2560

0.1  
1216-0416  
122-0422

122-042

604 057-1184

1852



207

8

9.1  
1082 1084

215

+206  
+200

122  
472

4.88

4.58

5.2  
5.3  
5.4  
5.5  
5.6  
5.7  
5.8  
5.9  
6.0  
6.1  
6.2  
6.3  
6.4  
6.5  
6.6  
6.7  
6.8  
6.9  
7.0  
7.1  
7.2  
7.3  
7.4  
7.5  
7.6  
7.7  
7.8  
7.9  
8.0  
8.1  
8.2  
8.3  
8.4  
8.5  
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STANCE	:	4.88
ODULUS	:	95
VEL.	:	5.80
q1 (U)	:	0.826
q2 (U)	:	0.478
q3 (U)	:	0.300
DU	:	382.253
U	:	37.909
q1 (V)	:	-0.563
q2 (V)	:	0.738
q3 (V)	:	0.374
DV	:	-472.068
V	:	-42.502
q1 (M)	:	0.043
q2 (M)	:	0.477
q3 (M)	:	-0.878
DM	:	-70.364
M	:	-11.749



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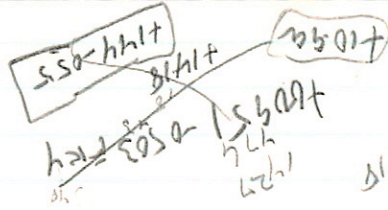
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R.A.	DEC.	PM. R.A.	PM. DEC.	DISTANCE	MODULUS	RAD. VEL.	q1 (U)	q2 (U)	q3 (U)	DU	U	q1 (V)	q2 (V)	q3 (V)	DV	V	q1 (M)	q2 (M)	q3 (M)	DM	M
1.200	7.300	143.000	-52.000	3.050	41	10.400	0.809	0.437	0.392	436.367	21.855	-0.581	0.697	0.421	-562.047	-18.514	0.089	0.569	-0.818	-80.377	-11.779

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-0.329	q3 (U):		
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0.000	U:		
-0.585	q1 (V):		
0.566	q2 (V):		
-0.581	q3 (V):		
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0.627	:	q2 (V)
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525~~

5.5  
-9.985-9.15

q1 (M)	:	0.214
q2 (M)	:	-0.973
q3 (M)	:	-93.309
MP	:	-9.985
M	:	
q1 (U)	:	-0.505
q2 (U)	:	0.833
q3 (U)	:	0.227
DU	:	-483.236
U	:	-18.528
1/1/4	:	
-0.085	:	

q1 (U)	:	0.859
q2 (U)	:	0.511
q3 (U)	:	0.037
DU	:	511.143
U	:	21.348

0.450	:	
-15.100	:	
151.000	:	
-34.000	:	
3.080	:	
41	:	
6.300	:	
0.859	:	
0.511	:	
0.037	:	
511.143	:	
21.348	:	
q1 (U)	:	
q2 (U)	:	
q3 (U)	:	
DU	:	
U	:	
DEC.	:	
M. R.A.	:	
M. DEC.	:	
ISTANCE	:	
MODULUS	:	
AD. VEL.	:	