

240

1 00.1 + 41.04

6114

1254

12^m 20.5

A05863

5.95 + 0.15 + 0.09 2345 ~ 2844 (5)

+086 + 218 0.950 000 5 PC

$\frac{436}{1386}$
 $\frac{192}{1558}$

2.876 JG

new

F1V4 +M
-7

-0024 -0046 ±2.0
+7 -42

-0237

-023 -005

+086 -1233 +933 2.850
M_V ± 17.6
n - M = 405
4.20

644

293.000*

1.000*

3.100*

41.000*

4.000*

-3.023*

-3.009*

4.050*

64.565

4.400

-3.097

3.537

-4

-3.926

3.047

3.760

+7

5.408

-3.044

-3.366

-5

-4.474

4.20
69.2

302 01 01.9 +50 45- 133 VI
6300

6.53 -07 -58 ②

-4.2
-014 076 354 2680

+6012 860
673 357
M_V
503

+0114
+012-004
M_V = -1.65
15.47
17.75
4.75
0.76
3.04

8753 / 0165
15587

302.000*

1.000*

1.900*

50.000*

45.000*

0.012*

-0.004*

7.750*

354.813

-4.200

0.045

0.563

13.743

-0.036

0.801

-16.098

-0.016

-0.204

-4.710

41 April / 05-1 +43 41

324 +13

14 02⁶² ±20
+01515 -0565

+01524 -0533
+5 575

+8.58

4.10

+1658

+166-058

324.000*

1.000*

5.100*

43.000*

41.000*

3.166*

-3.058*

4.100*

65.069

3.500

3.607

3.557

44.838

-9.531

9.765

-23.579

-9.211

-3.323

-16.658

1657639

15821
9856
6487

52739

4586
6487

723
2243

Hand

335

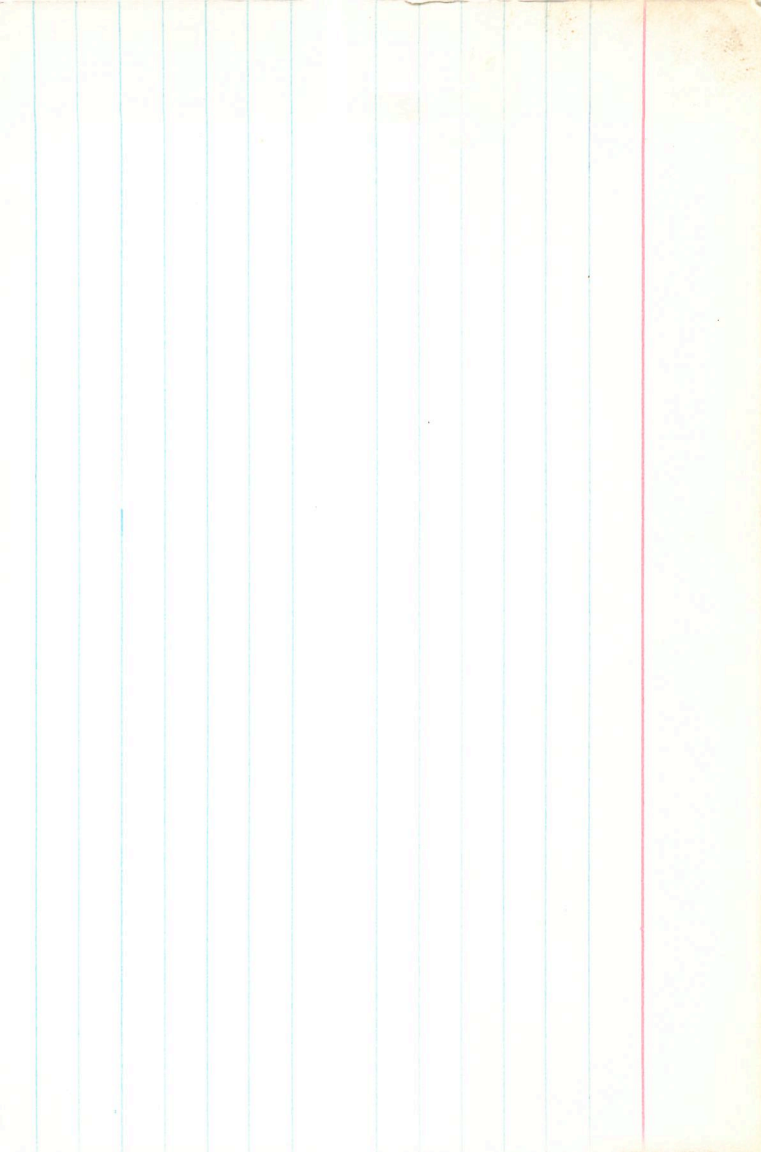
1 066 46 55 B7 III

68 11

16.94 years
 $a = 0.42$

+006 082 6917 2673

Red



of Bond

335

1 06.6 + 46 59

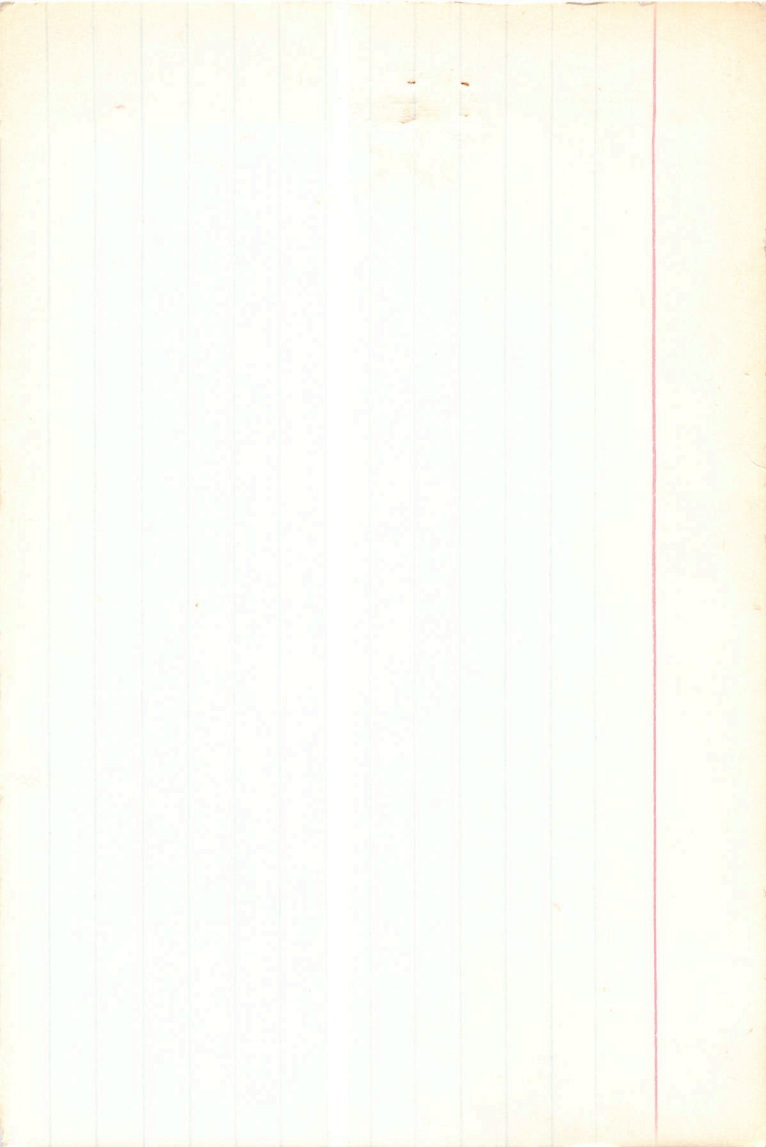
07 1/2

6511

1394

4.28 - 0.07 = 0.34 45

5.8 0.5^m (165 μ m)



343

108.1 + 54 53

Q-Cas

6961

1424

4.34 +0.17

+0.13

J

2845⑥

+087

+213

+497

000

SPL ←

sta

4124

1423

~~2871 JG~~
2.858

+10

-10

Fey

=15

Bud 51

-10265 -0154

-42

+0228

+9.46

+087 +224 +980 2.858

$m_V = +1.55$

$m - M = 2.98$

+022

+228-020

343.000*

1.000*

3.100*

54.000*

53.000*

3.228*

-3.020*

2.800*

36.308

9.400

3.879

3.579

37.364

-3.636

3.804

-15.516

-3.014

-3.133

-1.748

343.000*

1.000*

3.100*

54.000*

53.000*

3.228*

-3.020*

2.858*

37.154

9.400

3.879

3.579

33.107

-3.636

3.804

-15.054

-3.014

-3.133

-1.760

472

1 35.8 -57 80

+19.0

$$E = 0$$

$$0.50 - 0.15 \text{ on}$$

$$\frac{-3.8V}{7.00}$$

$$\beta = 2.605 \quad 0.27, \rho$$

$$+0.1295 \quad -0.281$$

$$\frac{60}{-34}$$

$$+0.1355 \quad -0.217$$

$$+1.109 \quad -0.32$$

$$\frac{+10.43}{+1.00 - 0.32} \quad +1.20$$



472.000*

1.000*

35.800*

-57.000*

-30.000*

0.109*

-0.032*

4.000*

63.096

~~19.000~~

0.305

-0.185 -74

+15 15.768

-0.411

-0.484 -31

-20 -35.126

0.167

-0.855 -54

+3 -5.730

2 And
477

+0014
-0012
37.4
37.6

0262
-0034
+40 14

Pluto

R 8 10

10205
+00181 -0164
+00009 -0191
→ W 310

2025
00142-4.54-009 -0.41 25

+00147 -0113
0168
0000 -0203
-14 C

SP. B. P. 51.40 days
Williams?

~~152~~ 152
~~636~~ 636
~~232~~ 232
+98
-d32 +107
+233
933

+0130 -022
+004
+20
+30

+0130 -0264
-0264
-0040

+013 -024

+00151 +0194
+0104
-0191
0122
0122

NSCW W 350

-10:

-032 +98
98 174
6382.042 W

+0117 -0222

2692

-032.088 638
052 644
184
82

82

98 174
820

m_v = -1.55

E = +06 9482-778

V₀ = 475 - 514 - 0544-2080

Q-V₀ -0.5 0.500

W-V₀ -45 0.040

S-C 4.75 2.01

-1.55
6.2

477.000*

1.000*

37.600*

40.000*

19.000*

0.013*

-0.024*

6.000*

6.7
218.5

158.489

-14.000

0.036

0.634

< 3.6

-0.4

~~-2.118~~

2728

-0.083

0.682

-20.0

~~-22.714~~

-0.092

-0.364

256

-11.0

~~-0.580~~

1.600

40.300

22.000

1.600

40.300

22.000

-22.000

6.450

195

~~-10.000~~

-13.9

0.770

0.100

0.630

50.857

3.615 41

-0.612

0.395

0.685

-89.871

-24.375 -27

0.181

0.913

-0.365

-80.848

-12.111 -11

481 1 38.6 + 60 47 3811 p

6.68

09201

9892 545 286

830 544

2

$\frac{176}{920}$

Value

$m_v = -1.8$

782

139.9

+58

22

138.111

10893

²
+024 078 474 (3) 2119

~~093~~ 464

~~100~~

639

$M_V = -2.3$

57.586

10025 ± 3.6

1895.4
10015
-003
33.23
1891.9

1376
450

10020-0045

+ 14
735
33.58

~~10020-0045~~

57.586

-0031

33.64
-24
1896.22

-012

10157

57.586

33.40
-18

1074

FOIL-007

8.25

107

482.000*

1.000*

38.900*

58.000*

22.000*

0.016*

-0.007*

8.250*

468

446.684

-0.700

0.062

0.635

27.077

-0.052

0.770

-23.895

-0.018

-0.063

-7.975

+570370

16
19

492

1 39.0

+59

22

88 141

1003

6.36

024 025 474 2.669 W

5

M

+0020-0045 BC -3.0

082

769

2848

164

179

933

+0192-0031-0.7

703

+0151

+014-007

-2-1

8.35

471

16260

1 35.6

+ 60

47

57.586

1895.4

+ 0025

63.6

- 00643.2

33.23

1541.9

134
450

+ 0020

35
33.50

57.536

- 12

33.64

1546.22

524

074

- 24
33.40

482.000*

1.000*

39.000*

58.000*

22.000*

0.014*

-0.007*

8.350*

467.735

-0.700

0.054

0.635

24.982

-0.046

0.770

-22.275

-0.020

-0.063

-9.191

10018-020
4 + 2

482

340

+ 58 22

888

10293

636 - 02 - 46 + 15 45

0.7

024 078 474 2.669

082 469
144
633

1011-018
900-006
1001-1011
1015-011

1015-015
1010-5104

5-9

2.25
8.1

482.000*

1.000*

39.000*

58.000*

22.000*

0.015*

-0.015*

8.150*

426.580

-0.700

0.062

0.635

26.059

-0.056

0.770

-24.358

-0.056

-0.063

-23.832

+271
+328
-27

44600

441

10.425

1 39.9

+60

18

138 ~~14~~

5.78 - 01 - 33

+14 +2

029 092 902 (3) 2715

687 696

174

870

~~-29.0~~

(MU)

$m_v = -1.15$ ✓

5.35

115

6.50

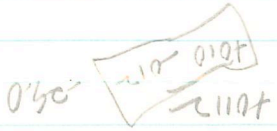
Var
Var

$\frac{12}{24}$
 $\frac{0.89}{0.3}$

1945.65

0.92

4.7



0.40

+0.151 0.085
 +0.016 0.095

$\frac{106}{204.85}$
 $\frac{55.409}{1}$

$\frac{1.1}{3}$
 93

0.8881

0.20

0.24

15857

0.30

$\frac{1302}{272}$

55.387

491.000*

1.000*

39.900*

60.000*

18.000*

0.010*

-0.012*

6.600*

208.930

~~-20.000~~

-25.

0.044

0.6333⁷⁸

-4.5 ~~54~~ -9.209

-0.038

0.774⁷⁸

-233 ²⁵⁶ -30.281

-0.046

-0.029

~~-904~~
-9.12 -8.862

KU
1253

542 | 50.8 · +63 25

$$\frac{5.55}{-2.3}$$

$$\rho = -8.1$$

3.26 $E = +04$
3.28 -15 -62 B3 III

$$\begin{array}{r} -51 \\ 2986 \\ \beta = 2665 \\ \text{Date 581} \end{array}$$
$$\begin{array}{r} 40488 \\ + 10 \\ \hline 40498 \\ + 034 \\ \hline 40532 \end{array}$$
$$\begin{array}{r} -0150 \\ - 6 \\ \hline -016 \end{array}$$
$$+ 034 - 016$$

542.000*

1.000*

50.400*

63.000*

25.000*

0.034*

-0.016*

5.550*

128.825

-8.100

0.135

0.640 *+82*

12.167

-0.111

0.768 *+98*

-20.508

-0.036

0.028 *+1*

-4.843

B1.57
B2.12

1 Per
533 / 48.7 + 54 54

11271

$5.50 - 0.17 - 0.62 \text{ (2)}$

-9.0

$-080 \ 088 \ 104 \text{ (2)} \ 2.450$

0.20

1014 1004

064 120

$\frac{28}{248}$

$M_y = -7.95$

10120
10111208

12.53 0.25

3.17 0.66

7.3

$101155 + 10004$
 $101047 + 10004$
 $101000 + 10004$
 $100000 + 10004$
 $100000 + 10004$

9668 7515 / 0149
15520
-2554 16547 / 0071

533.000*

1.000*

48.700*

54.000*

54.000*

0.011*

-0.008*

7.300*

288.403

-9.000

0.043

0.659

6.343

-0.042

0.743

-18.696

-0.025

-0.117

-6.080

W/Len + 0006

548

1 52.1 + 68 26 B5 III

11529

4.96 - 0.09 - 0.42 (3)

2313

SB P=599

-033 + 099 628 2.698

093 435

821

+002K -007 +11 N30 ±002

B = +06

+602K -006 → F104

V0 = 478 6.1 - 132

+013 -6039

B-V0 -15

-286

MV = -1.45

~1-130 -46

+012 -009

+0116

Mv = -13

+010 -010

625

548.000*

1.000*

52.100*

68.000*

26.000*

0.012*

-0.009*

6.500*

b-1
164

199.526

-23.800

¹⁵
0.053

0.622

b-2

-4.220

³³
-0.039

0.775

25

-26.135

-0.027

0.114

-7

-8.175

548.000*

1.000*

52.100*

68.000*

26.000*

0.010*

-0.010*

6.250*

177.828 K1.7

-23.800

0.047

0.622

-5 -6.399

-0.033

0.775

1550

-25 -24.293

-0.034

0.114

-9 -8.800

6.5
198

553

51.9 +20 34

11636

2309

8.65 +0.12 +0.10 ✓

064 +222 +920 8824

+064 +211 +983

2879 SPC ←

← SPC

065
m-m + 065

063

221

990

2.584 JG

2.580
35

But 51

064 216 986

343
+00686 -1076 FINY →

432
1418

097 = a

1029 - 39

1128

1115

+0964

-1.9 a

+097 -112

SB 107 d
β An

336
103
2808
9260
56408

553.000*

1.000*

51.900*

23.000*

34.000*

3.097*

-3.112*

0.68 3.550*

3338 12.882

-1.900

3.187

3.609

110 1.253

-3.617

3.471

-do -3.850

-3.277

-3.638

103 -2.362

53600

589

10801

2451

1 593

464 08

B8I6

542
Ela

4 Pa

1 58.0 + 54.5

- 2 C

1R590

4.95th - 0.07th

BE

+032 +003

+037 +007 C-C

+032 +007 N30

+035 +003

9100

1.36
1.14

+722 -116 +652

-636 +275 +721

+271 +955 -125

+1198 -0022

-1055 +0052

+0450 +0180

+1176

-1003

+0630

+10.7 -1.4

-9.1 -1.4

+5.7 +1.4

79.3

-10.5

+6.1

