

W 358

10.17

1000 10 500 52 + 6 48.5 1019 + 444

10.17 4458 2014 25

10.22 4440 15 14 29

10.17 4444 12 14 29

10.18 4465 21 11 11

10.14 4448 14 21 21

10.17 4444 10 11 11

10.18 4433 11 11 11

10.14 4436 10 11 11

10.19 4418 10 11 11

10.22 4456 11 11 11

- 4453 16 11 11

10.21 4452 20 11 11

9.45 + 1.05

71509

1850.0

06

26

51

-02

46

24

4571

2106-46



41509

1950

6 26 ³⁰ 57

-02

46 18

9.45

+1.35

[+577]

571

+588 9.50 19 Dec 79	9.48 +567 10 Apr 81	9.44 +564 26 Oct 82
+572 9.49 20 "	9.47 +569 11 " "	9.45 +563 19 Dec 82
+587 9.48 24 Jan 80	9.44 +576 14 Apr 81	9.45 +564 13 Jan 83
+573 9.48 25 " "	9.45 +564 18 Apr 81	9.50 +571 17 Jun 83
+582 9.49 8 Jan 81	9.54 +573 19 Apr 81	9.49 +564 18 Feb 83
+569 9.46 9 Jan 81	9.48 +579 20 Oct 81	9.47 +564 30 Feb 83
+574 9.45 25 Jan 81	9.51 +561 30 Nov 81	9.54 +568 15 Feb 83
+585 9.47 30 Jan 81	9.44 +568 27 Dec 81	9.47 +568 17 Mar 83
+586 9.48 14 Jan 81	9.52 +556 28 " "	
+556 9.42 10 Mar 81	9.45 +578 12 Jan 81	
+552 9.47 11 " "	9.44 +581 13 " "	
+570 9.46 1 Apr 81	9.50 +566 20 Apr 81	
+572 9.50 2 " "	9.50 +574 19 Mar 81	

9.00 455

4450 1950.0 02 09 50.0 +03 21 42.0 0-F 855

+2.348

67335

9.01 +023	226476
9.04 +020	236476



G73-35

-18.359 [1950.0] 02 024 380 -17 45/3000

900 + 1102

[203]

6272-48

9.04 211 226/84

9.05 216 230/84

U508-090 16 35.8 400 36

+0.3562
150484

-0.00+0.22

00 1791 14 45.8 +0.9 11

18.4224
157183

157763

560 A 1 8 55.4 -2

-27 13001

175883

R 0 0 0 0

14 13.4 -87 87

5726572

124654

57 300 169 450 above
15 259 420



100-93

-21,1651 19800
4/135 0500 2000 -21 19 25

738 + 718
144

E3-15 (1975)

6

47

36

-43

46

7.52

-0 032
-965

7.50 -970

-963 7.51 19 Dec 79 7.53-965 1 Apr 71

-964 7.48 20 " 7.51-966 2 " "

-970 7.53 24 Jan 70 7.47-962 10 " "

-972 7.53 20 Nov 70 7.52-961 11 " "

-972 7.51 21 " 7.52-960 14 " "

-985 7.50 22 7.47-962 15 Apr 71

-975 7.50 6 Dec 70 7.51-962 19 Apr 71

-976 7.49 8 Jan 71 7.51-972 28 Dec 71

-975 7.49 9 Jan 71 7.57-969 12 Jan 72

-966 7.47 28 Jan 71

-965 7.48 30 Jan 71

-965 7.53 14 " "

-958 7.52 10 Mar 71

-970 7.50 11

53-5

~~1950.0~~

06 31 46.56

-45 20 20.7

~~8.17-20.7~~
-49.1

41755 1950.0] 00 24 43 405 22 06 406

8.45 1.205

8.45 24



17.55 2000 7 27 240 $+0.5$ 13.5 8.43 $+399$
 845 $+406$

8.44 +405 20 April	8.45 +410 1 April
8.45 +402 19 Dec 79	8.47 +402 2 " "
8.43 +396 22 Jan 80	8.44 +406 10 April
8.40 +397 23 Jan 80	8.46 +411 11 April
8.46 +410 24 " "	8.42 +411 14 " "
8.55 +417 25 " "	8.47 +425 15 April
8.52 +414 8 Jan 81	481 16 April
8.44 +410 9 Jan 81	8.45 +407 27 Dec 81
8.41 +394 28 Jan 81	8.45 400 3 Jan 82
8.47 +400 3 Feb 81	8.46 +402 20 Feb 82
8.44 +417 14 " "	8.49 416 14 March
8.46 +406 10 March	8.46 +419 19 Dec 82
8.44 +407 " "	8.48 +410 10 Jan 83

$$P = 1.196 R_{0k} + 0.055$$

$$f-y = 1.05 (d_{kr}) + 0.724$$

$$M_1 = 0.52 (M_{1, \text{min}}) - 0.655$$

$$C_1 = 1.032 (d) + 0.424$$

$$n-t = \sqrt{(M_1)_0 + (f-y)} + (C_1)_{0k} + 826$$

6141

481-734 803-208 2191

~~2191~~

481-734 803-208 2191

475-225 798-204 2176 5000 29
480-222 810-643 2179 6000 29

ART 18 145 00 25 53.6 500 141 46 23 47 64
(1985.5) 00 25 53.6 -00 07 57

101

6.21-163 1030 -440 2.100 25 Nov 80

6.20-167 1036-433 2.102 2 Nov 81 (60)
6.21-162 1037-443 2.104 20 Oct 87

6.20-161 1026 -434

6.22-165 1036 -441 2.099 15 Jun 81

6.22-163 1024 -433

6.22-163 1029-434 2.106 24 Jun 81 (60)

6.21-163 1025 -432

6.23-162 1041-430 2.108 1 July 81 (60)

6.21-162 1026 -429

6.23-162 1033 -441 2.104 3 " " "

6.21-164 1027 -431 2.104

6.23-162 1026 -427 2.110 6 July 81 (60)

6.21-163 1026 -432 2.104

6.21-164 1033 -435 2.109 24 July 81 (60)

6.22-166 1034 -426 2.106 3 Nov 81 (60)

6.22-165 1038 -440 2.109 23 July 81 (60)

6.22-164 1029 -437 2.096 2 Nov 80

6.21-172 1042 -435 2.110 21 Nov 81 (40)

6.23-161 1022 -433 2.100 25 " "

6.23-167 1043 -449 2.116 22 " " "

6.23-171 1029 -432 2.099 26 " "

6.22-167 1042 -444 2.103 9 Sept 81 36 "

6.23-164 1027 -447 2.104 28

6.21-162 1038-443 2.105 5 " " "

6.23-161 1028 -435 2.107 18 Jun 81

6.22-160 1029 -425 2.107 6 " " "

6.23-160 1028 -434 2.102 14 " "

6.23-164 1031-427 2.107 22 Sept 81 (60)

6.21-160 1034 -437 2.106 23 " " "

6.21-167 1042 -445 2.102 25 " " "

15598

2 29 25 -05 07

(1980)

2 29 45 -05 05 18

(1986.5)

7.68 -0.667 0.925 0.099 2.386 (127)

-1049

1147

173

2.572

Feb 06

-1047

1144

180

-

Mar 06

(19855) 021 29 40.3 -05 05 37

15598 666 929 2 29 25 -5 07

7.68-667 931 +100 2.387 75

7.67-665 925 +105 2.399 67 1/2

7.67-662 926 +091 2.398 95 1/2

7.68-664 930 +109 2.391 27 1/2

7.64-657 919 +097 2.396 5 " "

7.67-662 926 +106 2.392 25 1/2

7.68-666 927 +98 2.378 22 1/2 (60)

7.66-668 920 +082 2.381 9 1/2 (60)

7.68-669 927 +105 2.380 23 " "

7.68-665 926 +98 2.387 19 1/2 (40)

7.68-664 933 +98 2.381 25 " "

7.66-670 926 +112 2.385 23 1/2

7.66-662 923 +100 2.386 20 1/2 (81) (36)

7.64-657 925 +107 2.380 26 1/2

7.67-667 932 +99 2.393 22 1/2 (60)

7.67-671 942 +942 2.397 28 1/2

7.68-666 930 +118 2.390 3 " "

7.67-671 932 +82 2.391 29 1/2

7.68-666 931 +101 2.397 23 1/2 (81) (36)

7.67-674 940 +104 2.389 30 1/2

7.67-666 933 +98 2.389 24 " "

7.67-658 920 +94 2.385 37 1/2

7.67-671 940 +97 2.399 25 " "

7.66-669 927 +103 2.390 4 1/2

7.67-668 932 +93 2.391 26 " "

7.67-675 935 +108 2.397 6 1/2

7.67-670 935 +96 2.399 27 " "

7.68-671 918 +115 2.381 18 1/2

15594

2 29 25 -05 07

768 -0.667 0.930 +0.099 2.386 (105)

768 -660 912 +115 2.388 21 Jan 84	766 -670 925 +93 2.389 15 Jan 85
769 -667 910 +100 2.393 22 Jan 84	768 -661 923 +97 2.383 22 Jan 84
765 -665 919 +103 2.390 23 Jan 84	768 -662 922 +95 2.386 24 Jan 84
767 -665 920 +095 2.389 24 Jan 84	767 -667 929 +106 2.387 24 Jan 84
767 -669 922 +101 2.388 25 Jan 84	768 -667 929 +102 2.382 25 Jan 84
767 -660 914 +107 2.386 26 Jan 84	765 -668 915 +110 2.385 26 " "
768 +663 915 +103 2.381 26 Aug 84	767 -670 933 +100 2.391 27 " "
767 -662 923 +094 2.383 25 Aug 84	768 -668 923 +104 2.385 28 " "
765 -668 933 +94 2.393 16 Oct 84	767 -665 922 +094 2.385 29 " "
767 -663 924 +99 2.386 18 Oct 84	765 -666 927 +100 2.394 30 Jan 85
	767 -668 935 +080 2.391 13 Jan 85
	767 -671 916 +092 2.385 14 " "

(0985.5) 02 33 14.7 - 62 39 10

762 2 33 00 - 62 41

6.80 - 710 845 + 36 2.297 (240)

±0.004

6.80 - 703 832 + 35 2.297

6.80 - 707 835 + 37 2.296 6.28 81 (36)

6.80 - 704 834 + 39 2.302 7" (60)

6.81 - 712 844 + 40 2.301 8" (60)

6.80 - 710 843 + 42 2.293 12" (36)

6.79 - 706 842 + 45 2.295 15" (36)

6.81 - 704 835 + 51 2.295 24" (36)

6.80 - 706 838 + 42 2.295 21 Aug 11 (36)

6.80 - 713 847 + 30 2.299 24 July 11 (60)

6.81 - 713 842 + 41 2.294 23 July 11 (36)

6.80 - 706 839 + 39 2.289 21 Aug 11 (40)

6.81 - 706 827 + 48 2.291 22 " "

6.80 - 712 834 + 45 2.299 21 Aug 11 (36)

6.77 - 709 843 + 34 2.297 5 Sept 11 (36)

6.79 - 712 836 + 36 2.295 22 Sept 11 (60)

6.80 - 716 843 + 25 2.298 23 " " "

6.80 - 722 834 + 51 2.307 25 " " "

6.79 - 710 842 + 51 2.294 20 Oct 11 (36)

6.80 - 706 837 + 37 2.299 2 Nov 11 (60)

6.80 - 708 843 + 39 2.297 3 " " "

6.79 - 706 832 + 42 2.296 24 Nov 11 (60)

6.79 - 711 846 + 39 2.297 25 " " "

6.80 - 710 843 + 43 2.295 26 " " "

6.81 - 708 840 + 39 2.302 6 Aug 12 (36)

6.80 - 710 828 + 37 2.300 24 Oct 12

6.79 - 701 840 + 45 2.294 9 Dec 12 (60)

6.80 - 712 846 + 25 2.299 30 Dec 12

762

02 33 17.7 -62 39 10

02 33 20.6 -62 38 49 (1986.5)

6.80 -710 845 +36 2247 (307)

6.85 -710 852 +16 2245 7/25/86

1088 1058 052 2469 June 86
1098 1067 085 2464 July 86

745

2 39 20 -64 20.5

2 39 22.1 -64 20 28 (1986.5)

6.56 -722 857 -55 2.302

660 -716 843 -46 2.299 7/Jan 86

1098 1060 500 2470 Jan 86

1.102 1076 502 2471 8/86

2000

(1985.5) 05 46 25.9 - 16.14 35
5 46 10 - 16 15

6.16-171

6.19-170 1068-453 2.120 29 Jan 84

6.18-172 1063 -441 2.119 (25)

6.17-169 1056 439 2.117 28 Jan 84

6.17-167 1057-435 2.120 27 Jan 84

6.17-175 1072-455 2.116 10 Dec 83

6.18-168 1071-463 2.119 31 Dec 83

6.16-171 1065-443 2.114 11 Dec 83

6.18-173 1067-447 2.115 2 Jan 84

6.17-168 1061-436 2.116 23 Dec 83

6.20-176 1070-442 2.123 6 Jan 84

6.18-171 1063-437 2.121 3 Nov 83

6.15-171 1056-431 2.117 8 Jan 84

6.17-172 1066-450 2.117 4 Nov 83

6.18-170 1063-449 2.118 10 Jan 84

6.19-169 1063-450 2.119 30 Nov 83

6.17-171 1067-447 2.117 29 Jan 84

6.16-172 1062-438 2.117 2 Dec 83

6.16-173 1062-445 2.117 20 Jan 84

6.19-173 1065-448 2.119 3 Dec 83

6.18-175 1068-448 2.118 23 Jan 84

6.18-173 1068-452 2.116 27 Dec 83

6.16-163 1060-441 2.120 24 Jan 84

6.17-170 1063-449 2.126 29 Dec 83

6.17-176 1073-445 2.118 25 Jan 84

6.18-166 1062-446 2.119 30 Dec 83

6.17-171 1068-447 2.116 26 Jan 84

5 46 27 -16 14 32

19855

20524

20770

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46

100

-16

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6.16

-171

2101

6.15-173 1062-443

ⓐ

2-120

6.18-176 1062-436 5 443

6.17-172-1070-446 2.115 20243

6.15-167 1054-414 2.115 443

6.18-172-1059-434 2.113 18443

6.15-180 1070-445 2.104 10443

6.18-172-1067-421 2.103 9443

6.15-176 1063-444 2.124 11443

6.18-173 1066-443 2.116 5443

6.14 174 1066-445 2.120 12443

6.18-171 1065-445 2.116 28443

6.18-174 1063-444 2.120 16443

6.19-172-1054-446 2.115 4443

6.17-171 1062-442 2.124 17443

6.15-169 1066-451 2.116 150443

6.18-170 1058-434 2.114 15443

6.17-172-1064-435 2.111 352443

6.18-172 1063-446 2.120 14443

6.18-168 1061-440 2.115 75443

6.18-164 1062-442 2.127 20443

6.18-172 1064-444 2.118 10443

6.18-171 1061-446 2.115 30443

2000

5 46 24 -16 14 35

5 46 29.8 -16 14 34 (1986.5)

6.18 -172 1063 -441 2.119 (25)

6.18 -170 1059 -445 2.115 (24)

6.18 -171 1.064 -441 2.119 (25)

6.18 -171 1062 -442 2.119 25

6.18 -173 1057 -442 2.113 7/19/86

-564 1352 -455 2.252

June
8/86

-564 1346 -453 2.252

2007

5 47 49 -04 05 44

(1986.5)

5.98-314 912 -521 2.123

(115)

5.98-317 911 -522 - 2 June

706 1210 566 2262 - June
704 1208 - 563 2261 June

(1985.1) 05 47 48.6 -04 05 44

2007

5 47 35 -4 05

- 314 914 -522 2.124 66 (22) 5.99 -314 912 -521 2.126 25 Apr 83
- 5.99 -314 909 -521 2.122 (65) ✓ 5.97 -317 909 -520 2.120 24 Mar 83
- 5.99 -314 911 -521 2.123 (90) 5.95 -307 904 -525 2.125 9 Mar 83
- 5.97 -312 911 -522 2.129 20 Oct 81 (31) 5.46 -299 907 -500 2.123 10 Oct 82
- 5.99 -314 909 -527 2.122 23 Nov 81 (31) 5.99 -310 920 -523 2.120 24 Mar 83
- 5.99 -314 923 -527 2.123 24 " " " 5.98 -314 920 -515 2.120 25 Oct 82
- 5.97 -313 910 -520 2.120 25 " " " 6.01 -311 913 -527 2.125 9 Dec 82
- 5.99 -313 907 -523 2.121 26 " " " 5.99 -317 908 -526 2.118 19 Dec 82
- 5.99 -313 913 -526 2.121 27 " " " 5.98 - - -516 2.123 26 Dec 82
- 5.97 -314 917 -522 2.135 20 June 83 (60) 5.99 -317 915 -529 2.122 27 Dec 82
- 5.97 -317 919 -509 2.133 21 " 5.98 -313 916 -521 2.128 30 Oct 82
- 6.00 -314 916 -517 2.121 22 " 5.97 -315 918 -533 2.126 3 June 83
- 5.97 -319 922 -522 2.122 23 " 5.99 -315 913 -534 2.125 5 June 83
- 5.99 -319 921 -519 2.122 24 " 5.98 -314 912 -521 2.127 31 July 83