

211433

22

14.3 + 22

39

6.8

A0 + 4.58

31158

-0031

Sp. B. P =

14014

18.935

1599.3

+ 22

38

47.51

18989

188

19,123

92

48,43

19,021

47,45

19343

021

025

19

47,64

19,032

-098

48,00

192786

-3

029

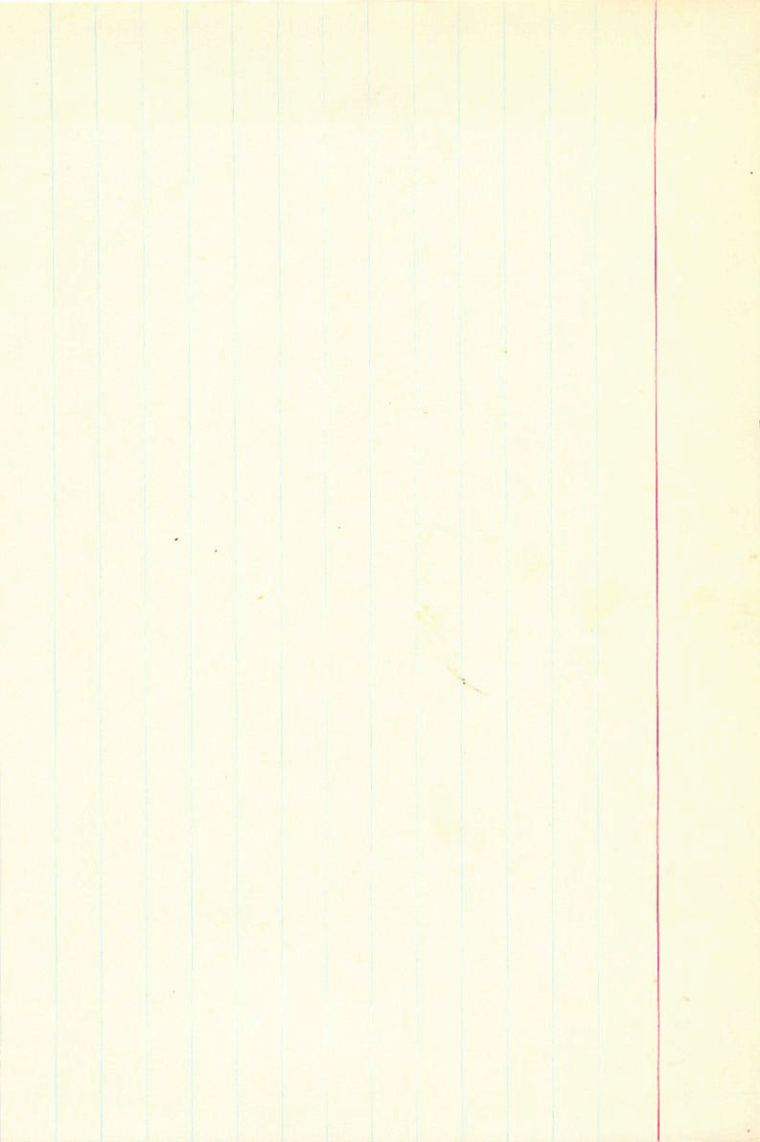
31847.94

6216

31.1

32.2

47.7964



211460

22

$$\begin{array}{r}
 +0123 \pm 5.8 \\
 +0108 \\
 \hline
 14.4
 \end{array}$$

$$\begin{array}{r}
 +28 \\
 \hline
 28
 \end{array}$$

$$\begin{array}{r}
 +025 \pm 4.3 \\
 +024 \\
 \hline
 55
 \end{array}$$

6.8

G-8.4

G-5 -38.58

31159
14015

3690

23.006

1907.5 +28

55

22.71

1903.1

-523

483

22.

22.703

1
702

~~+318~~

22.72

5
715

209
705

+225

20.8

-1.17

54

22.29

1927.86

-9

22.20

22.3

1929.7

756

-20

22.10

28.3

22.15

+61

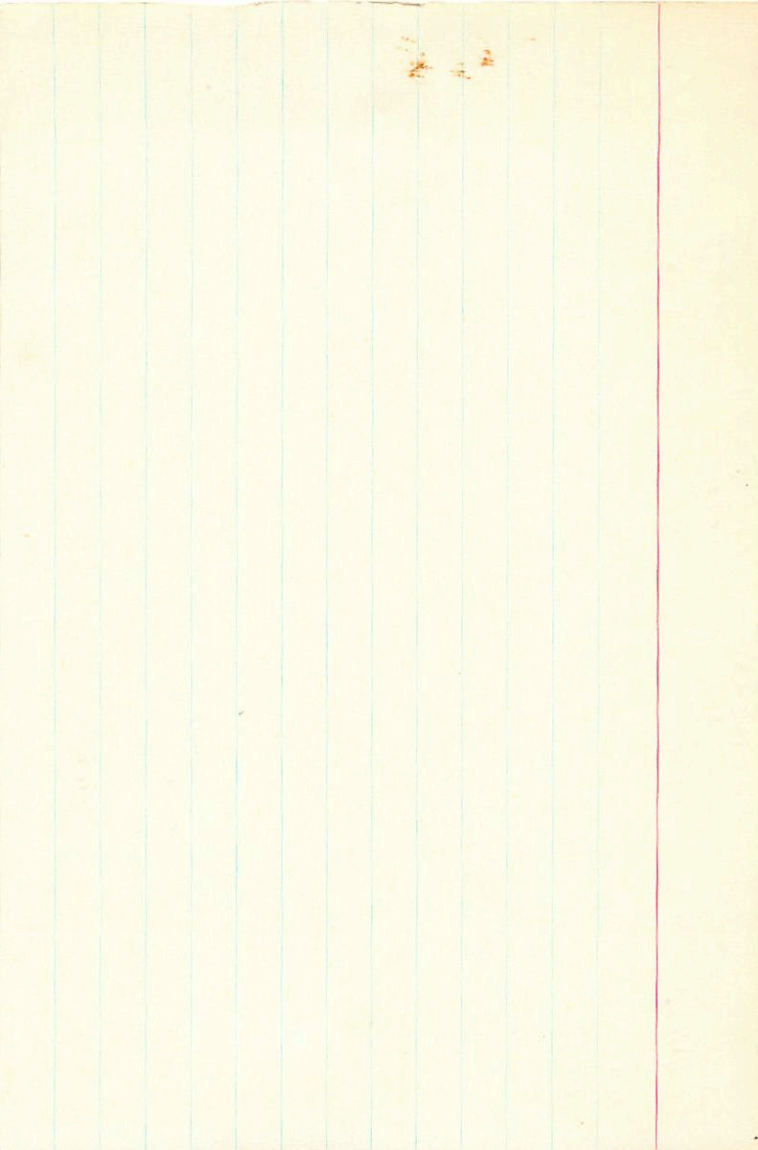
25.2

³
+0112

$$\begin{array}{r}
 +149 \\
 -2 \\
 \hline
 147
 \end{array}$$

+023

³
020



44 Apr

211434

31163

14017

22 14.5 -0.5 38⁶⁰ 964 +7.48

-000434 +015³² N30

+0002²³ +026^{±1.9} EC → N30

$$\begin{array}{r} +607 \pm 2.5 \\ +0057 \\ \hline +607 \pm 2.5 \end{array}$$

$$\begin{array}{r} 211554 \\ 31167 \\ \hline 242721 \end{array}$$

$$\begin{array}{r} 14019 \cdot 37.931 \\ -251 \\ \hline 137680 \end{array}$$

$$\begin{array}{r} 650 \\ \hline 650 \end{array}$$

$$\begin{array}{r} 43.55 \\ 53.9468 \\ \hline 97.4968 \end{array}$$

$$\begin{array}{r} 37.792 \\ 843 \\ \hline 42.635 \end{array}$$

$$\begin{array}{r} 443 \\ \hline 443 \end{array}$$

$$\begin{array}{r} 37.923 \\ 944 \\ \hline 41.867 \end{array}$$

$$\begin{array}{r} 1781 \\ 894 \\ \hline 2675 \end{array}$$

$$\begin{array}{r} 42.8 \end{array}$$

$$\begin{array}{r} 58 \\ 58 \\ \hline 116 \end{array}$$

$$\begin{array}{r} 58 \\ 58 \\ \hline 116 \end{array}$$

$$\begin{array}{r} -37 \\ 43 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 43.3 \\ 1926.3 \\ \hline 1969.6 \end{array}$$

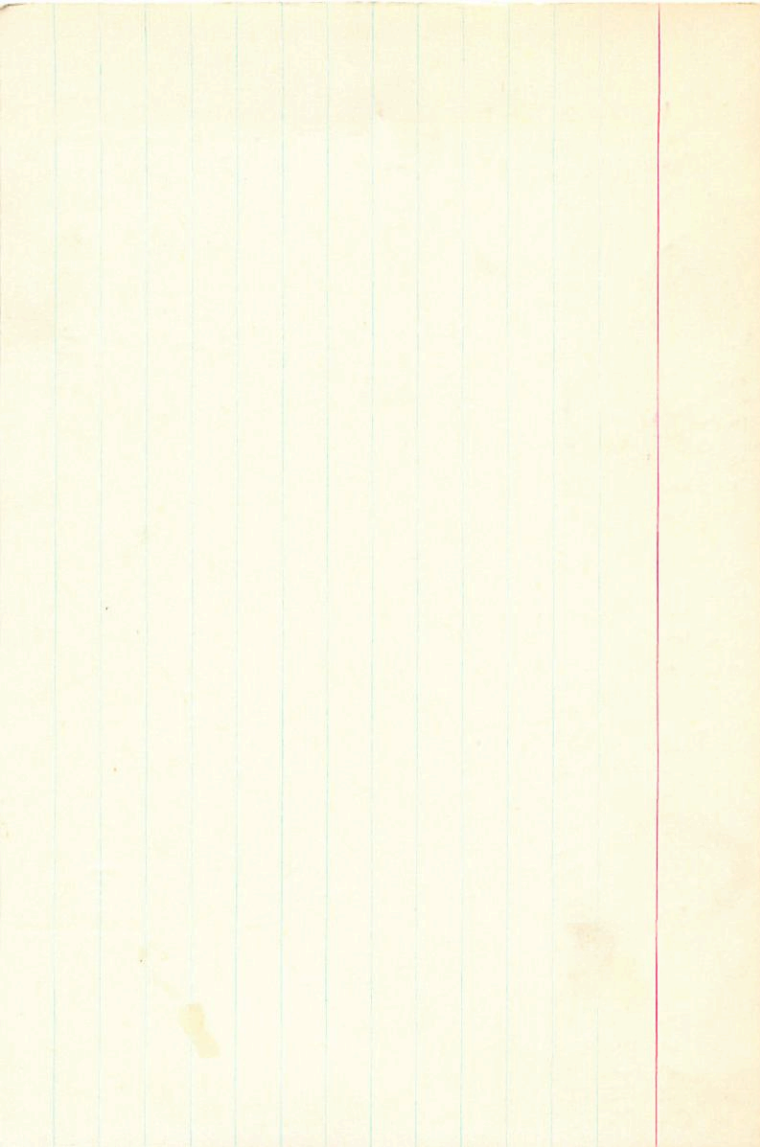
$$\begin{array}{r} 28.20 \\ 11.50 \\ \hline 39.70 \end{array}$$

$$\begin{array}{r} 1192 \\ 12.39 \\ \hline 1204.39 \end{array}$$

$$\begin{array}{r} 12.1 \\ 12.86 \\ \hline 24.96 \end{array}$$

$$\begin{array}{r} 1946.84 \\ 73.14 \\ \hline 2020 \end{array}$$

$$\begin{array}{r} 36.6 \\ \hline 39.1 \end{array}$$



ATM

211416

31183

14024

22 15.1

-60 -0792

31 2.9

NS +42.22

-009471.8 -03941.8

S.B. P=41982

= 11.5 yrs

5.619 14017

-60 30 3492

14011

+41.9 1st

6.073
454

5.792
-80

7.12

12.84

6.42

-431

5.606
-24
265

4.6.8

33.01
-191

34.68

34.67

700.
35.10
-2.09

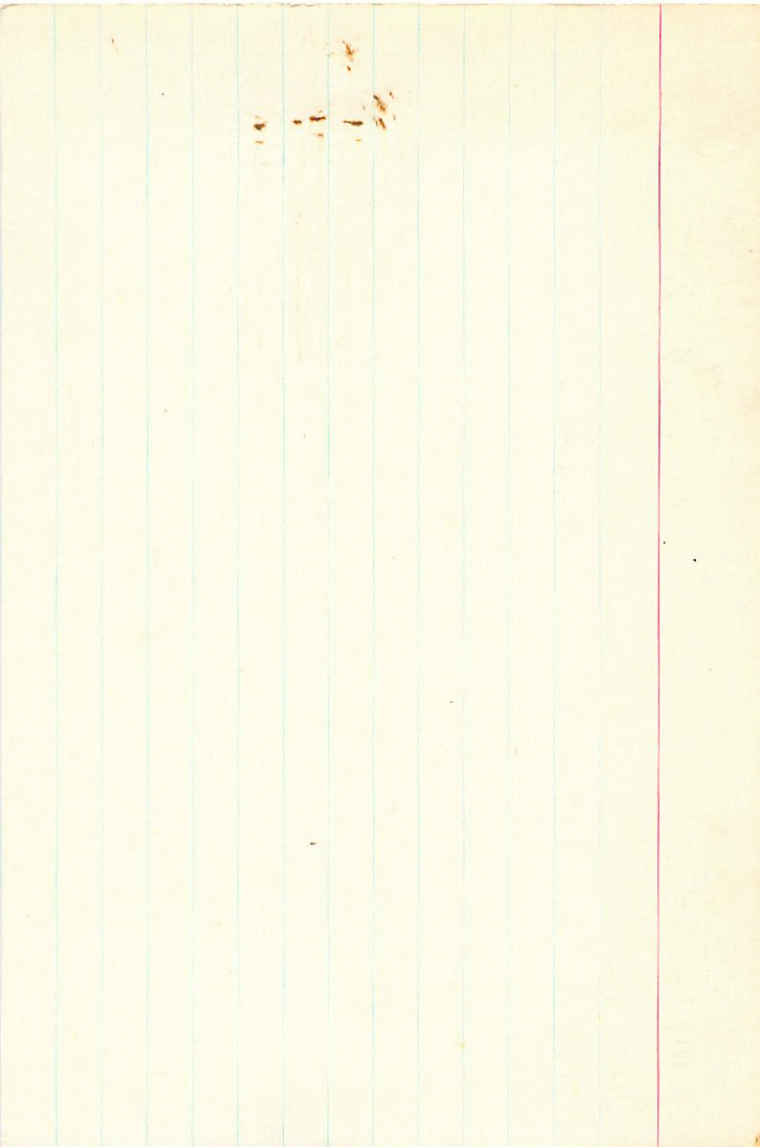
35.83
-17
35.36

1935.82

9706
48.5

474

195224



NW Neg
+204488

22 15.6 +2 29 +230

+ 11
+024 = 99
+024 = 99
+024 = 99

+ 22
+0206 = 8.2

41
+0086 +0251

+005
+2

+0123
+014021

8-430

3+004

94 7.0
+158 +170
+132

1.92 (0.7) →
216
435
435

210
166 10.3

+021 933

485
488

216.

664
202 168

204
616
616
616
616

306/9.1

12

12

12

12



5

0.000*

22.000*

15.600*

2.000*

29.000*

0.014*

0.021*

9.350*

741.310

23.000

0.103

-0.303

69.729

0.059

0.672

59.075

0.012

-0.676

-6.487

12

214

6E M-

551 EC

8507

54511E

② 8114
② 813 ②
② 814

694 021 08T

280

211594 22 15.6 -06 05 R0-Ba3 -66

8.3 -718A 11100 25ps?

8.12 + 1.16 + 0.75 230cut67 40"

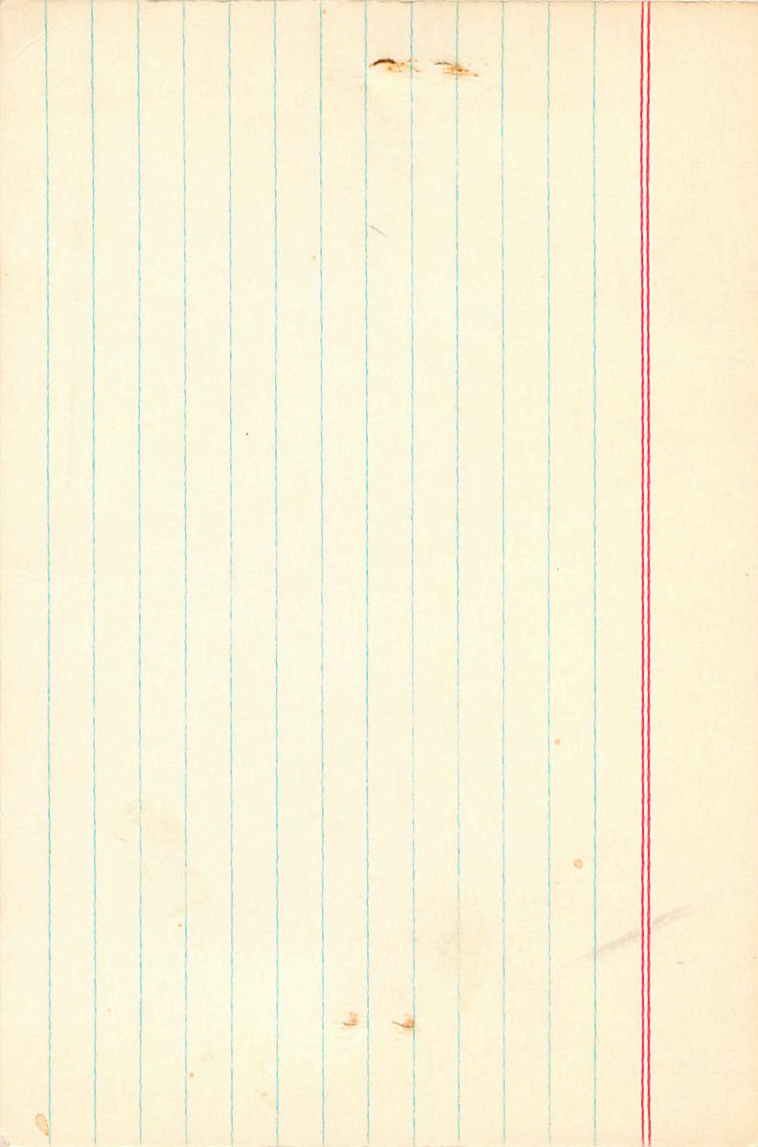
+019 +015 Y

-12 ± 3

+007 +018 → GC

+ 2 0

+009 +018



-6 5464

211594

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22 15.6

21 8.3
-6 05 NO-Ba3 -6.6

760 335
726
458
67

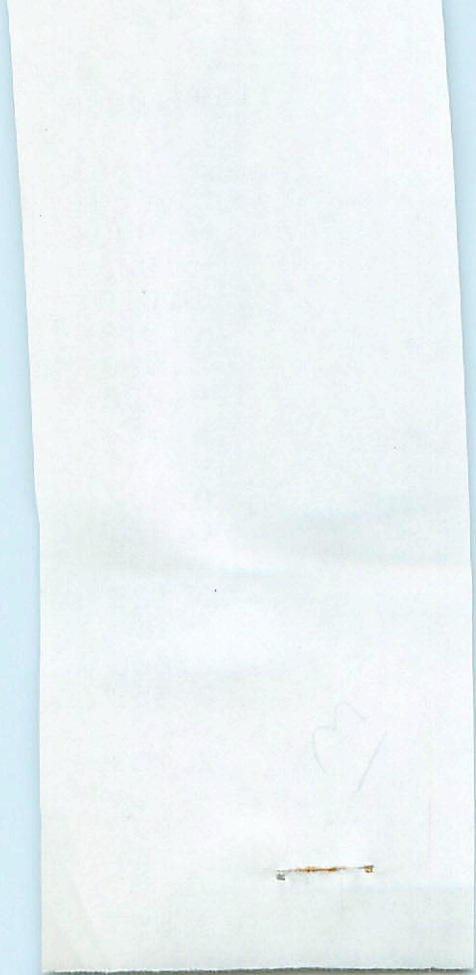
+019 +015
-12 +3
+3 0

+010 +018

42
760 335
726
458
6.78
.5
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0.5

13



211594.000*

22.000*

15.600*

-6.000*

-5.000*

0.010*

0.018*

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100.000

-6.600

0.077

-0.373

10.128

0.060

0.558

2.323

0.007

-0.741

5.555

13



45 Ag.
211676
31199

22 16.3

+0051E1.7
+0052
-13 33

-009E1.8
-007
6.1 967 +30.08

14031

19.825 1400.0 -13 33 21.99 1897.4

-255
1570

47
21.52

59.330
20.418

19.748
33

715
10
705

738

19.779

9
770

+168

(32.1)

52.29 1926.11

29.42

22.87

62
22.25
36

21.89

21.82
14
21.68

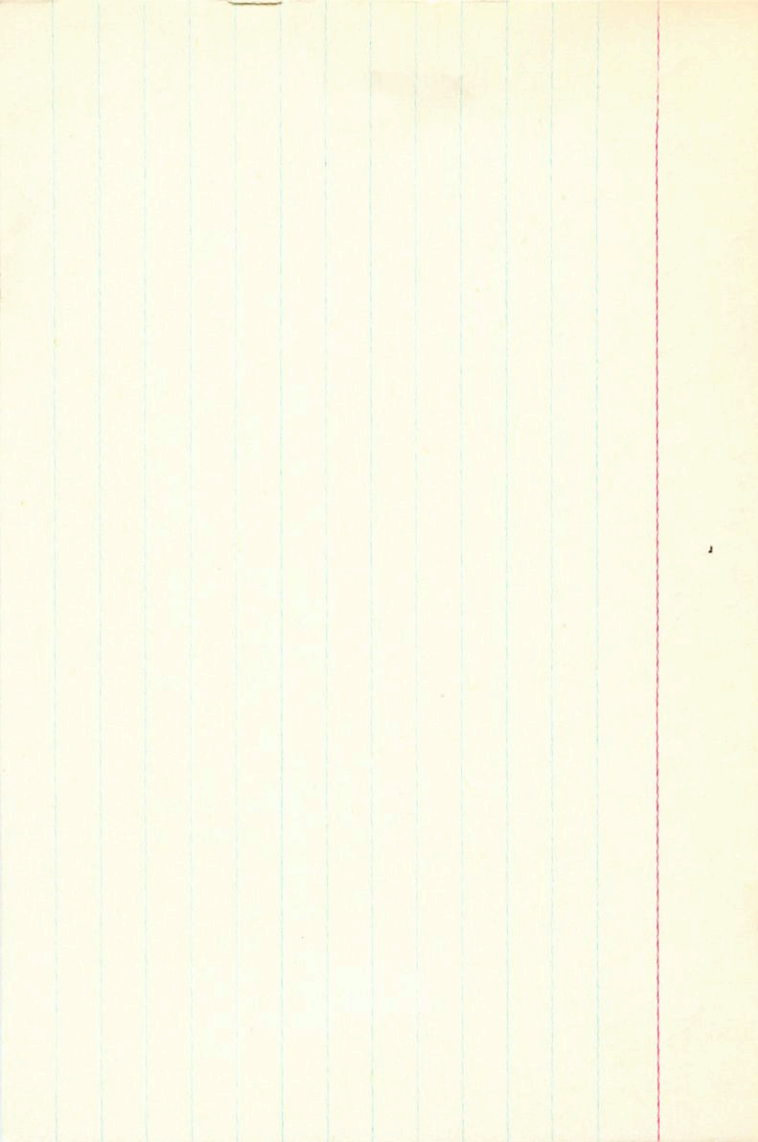
21.78
-26

1938.02

44 13

32.1

(34.7)



2/1733

22 16.4

+16

6.9 A3m -27.38

+0014±6.0 +004 ±6.7
+0028 +007

3/201

14082

26.559

1911.9

16.0

24.92

1912.3

$$\frac{-0.61}{798}$$

$$\frac{-1.5}{24.77}$$

26.838

1913.0

24.93

1913.0

843

134

867

+069

25.07

24.59

1913.82

24.82

86.4

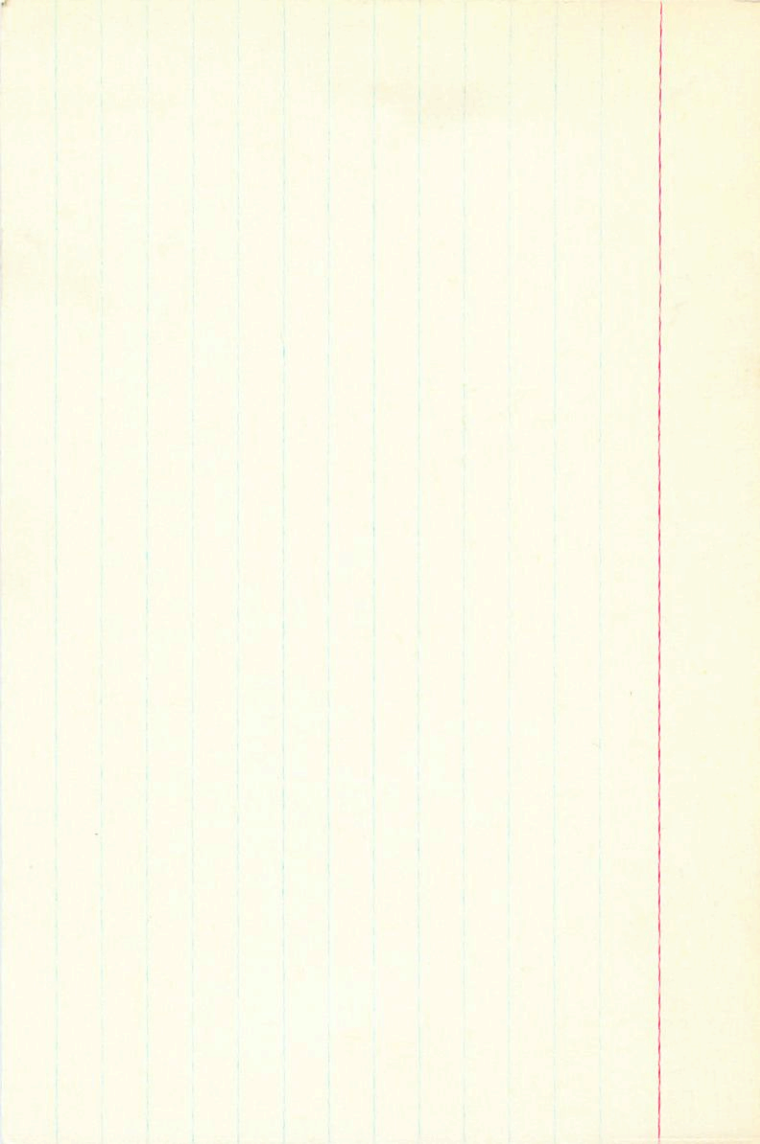
24.1

24.16

24.5

24.93

24.16



ANSI 5828

~~211797 22 16.7 +37 31 6.1 dF2 +7.46~~

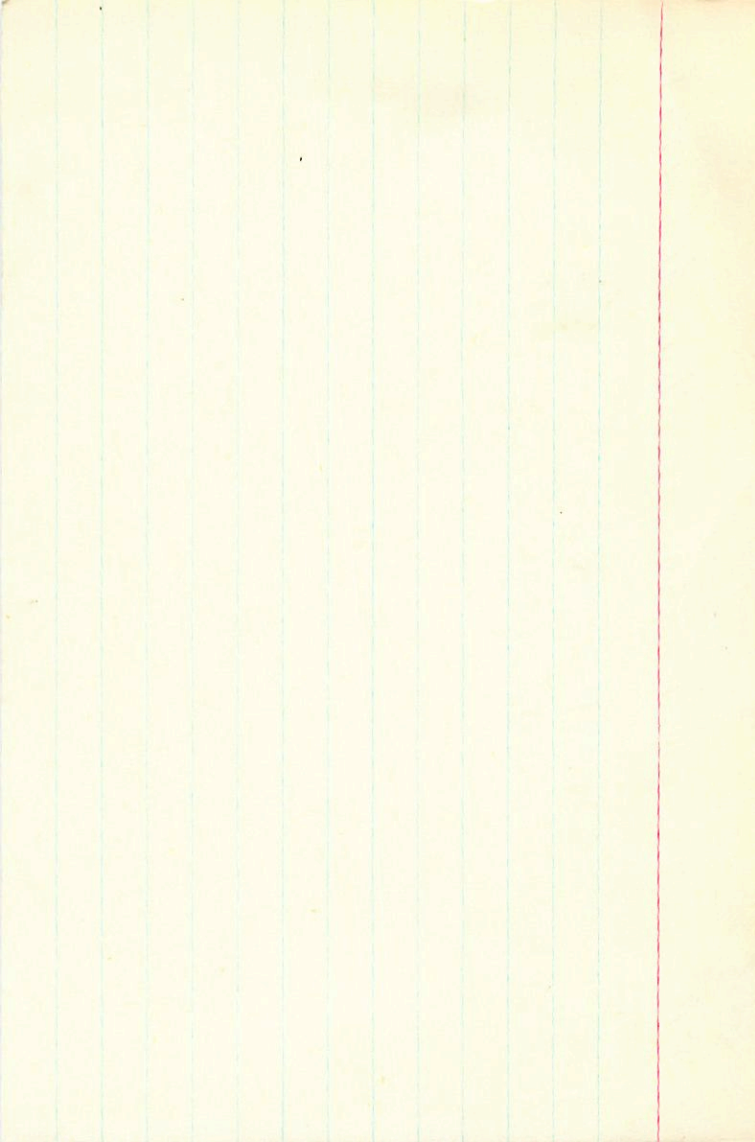
31210

14036

+0036^{N3} +050¹⁵ N30

+0043 \pm 3.0 +048 \pm 2.066 \rightarrow N30

8^m 16^h



64

211868 22 17.0 +54 19 8.0 44 -60.48

4452.0 Est

14040

-0025 1004
0 0



212071 22 18.7 +50 11 ± 7.8 +005 ± 8.0
 -0006 +015
 750 44 6.6 912 -9.0 8

31243

14055 40.601 19067 +50 43 42.94 1899.9
 -053
 $\frac{548}{1}$ 42.69
 -25

41.24 10.9 1928.0

59.258
 40.447
 $\frac{545}{1}$

35.6

32.00

$\frac{42.90}{43.45}$

$\frac{43.26}{+57}$

7465

37.3

37.4

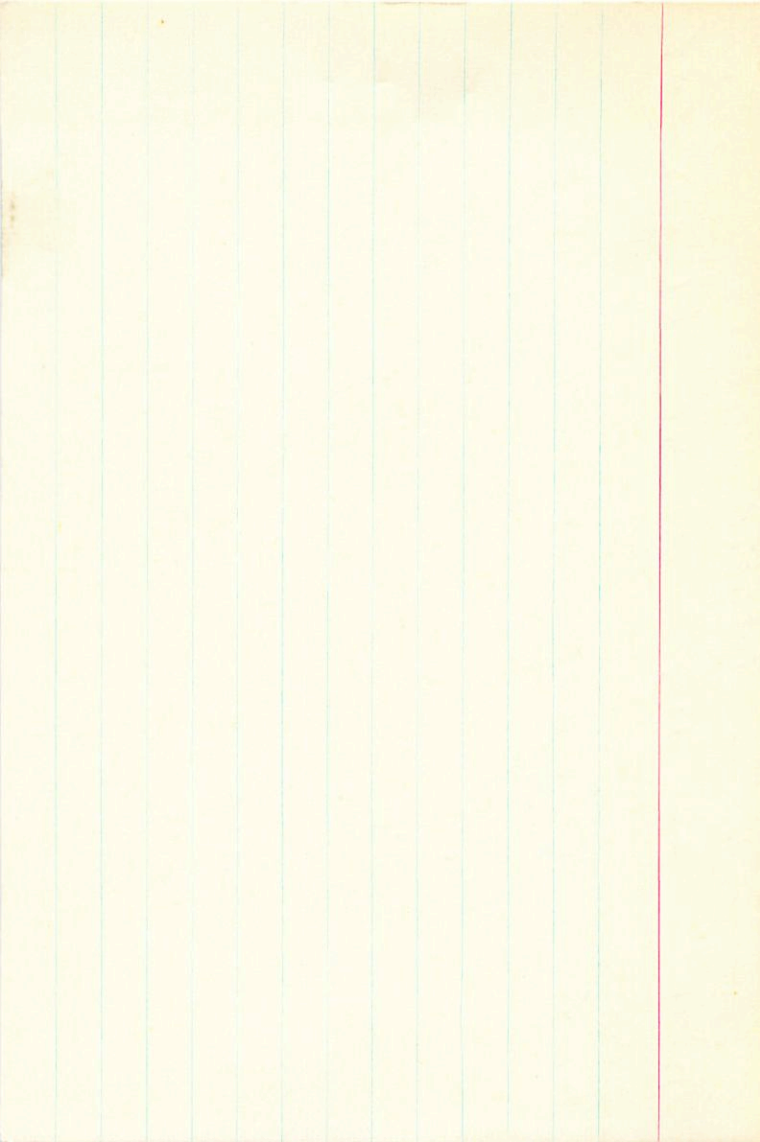
$\frac{43.319}{43.544}$

43.34 1946.65

$\frac{37.97}{42.57}$

40.505

$\frac{511}{528}$
 -0.20



47 Agn

212010

22 18.8

-21 51

5.4 g 112 +48.7a

30247

+47.3

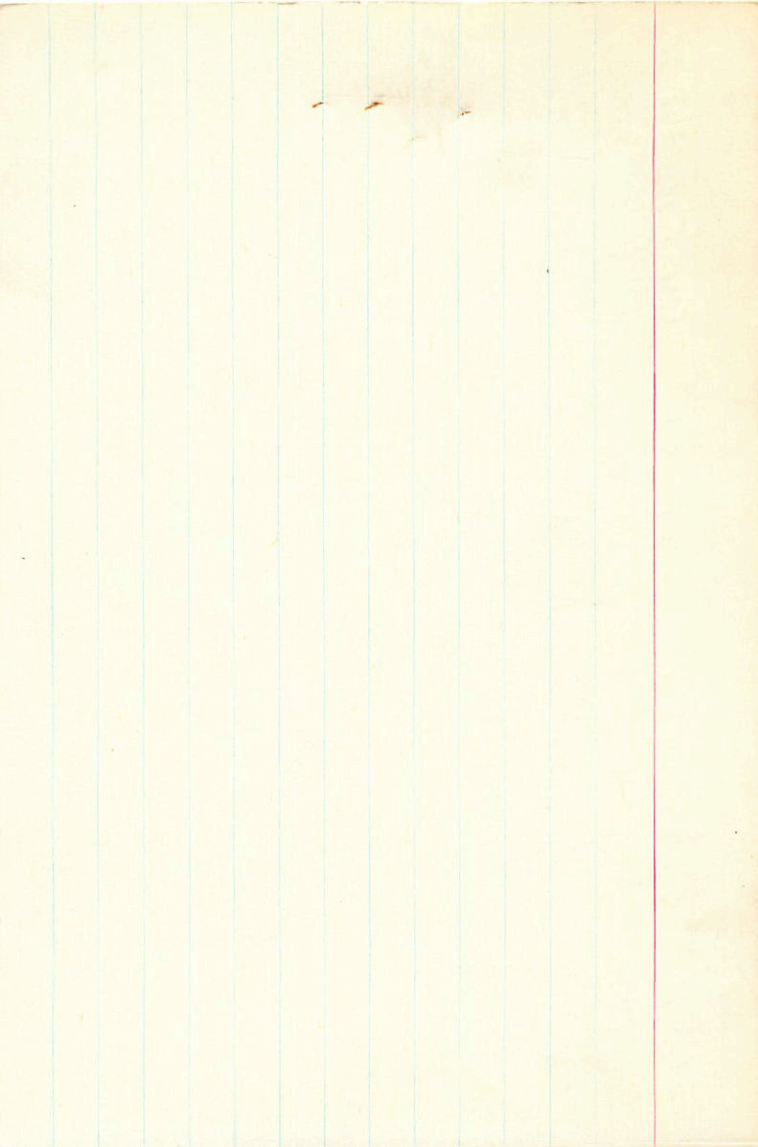
-5008⁴⁵

-085-48 N30

23a.

14057

-0006±1.9 -087±166c → N30



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DES8

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hard hard
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 718. 2628
 719. 2629
 720. 2630
 721. 2631
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 727. 2637
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 736. 2646
 737. 2647
 738. 2648
 739. 2649
 740. 2650
 741. 2651
 742. 2652
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 744. 2654
 745. 2655
 746. 2656
 747. 2657
 748. 2658
 749. 2659
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 751. 2661
 752. 2662
 753. 2663
 754. 2664
 755. 2665
 756. 2666
 757. 2667
 758. 2668
 759. 2669
 760. 2670
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 762. 2672
 763. 2673
 764. 2674
 765. 2675
 766. 2676
 767. 2677
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 769. 2679
 770. 2680
 771. 2681
 772. 2682
 773. 2683
 774. 2684
 775. 2685
 776. 2686
 777. 2687
 778. 2688
 779. 2689
 780. 2690
 781. 2691
 782. 2692
 783. 2693
 784. 2694
 785. 2695
 786. 2696
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 789. 2699
 790. 2700
 791. 2701
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 798. 2708
 799. 2709
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 801. 2711
 802. 2712
 803. 2713
 804. 2714
 805. 2715
 806. 2716
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 809. 2719
 810. 2720
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 818. 2728
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 829. 2739
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 835. 2745
 836. 2746
 837. 2747
 838. 2748
 839. 2749
 840. 2750
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 842. 2752
 843. 2753
 844. 2754
 845. 2755
 846. 2756
 847. 2757
 848. 2758
 849. 2759
 850. 2760
 851. 2761
 852. 2762
 853. 2763
 854. 2764
 855. 2765
 856. 2766
 857. 2767
 858. 2768
 859. 2769
 860. 2770
 861. 2771
 862. 2772
 863. 2773
 864. 2774
 865. 2775
 866. 2776
 867. 2777
 868. 2778
 869. 2779
 870. 2780
 871. 2781
 872. 2782
 873. 2783
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 875. 2785
 876. 2786
 877. 2787
 878. 2788
 879. 2789
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 883. 2793
 884. 2794
 885. 2795
 886. 2796
 887. 27

8528.000*

22.000*

19.700*

41.000*

49.000*

0.012*

0.001*

7.150*

269.153

-17.700

0.049

0.092

11.632

-0.011

0.971

-20.074

-0.027

-0.219

-3.321

14

212132
 412.5
 -13.5
 22 20.1
 46 11
 FO 10
 344
 1322
 2112
 300
 20.33
 -46.2
 370
 -57
 2.5
 -18.7

203 +15
 564 115
 130 +2.1
 561 257 157 605 2704 (2)
 263 232
 40 40
 +0221 -057 605
 1125 40
 574 402250 -0500
 3375 2339 2334 -054
 30m

819 114 -562
 -200 975 -093
 -537 -189 -822
 9356 -0281
 -2285 -2403
 -6134 0466
 9075
 -4688
 -5668
 +16.5
 -15.9
 -33.4
 -11.2
 -1.9
 -16.4

7 Ann 22 20.1 -96 11 -18.0
 136 @ 17 II
 474
 2428
 6631273
 +10.0
 224 000 -000
 +0350
 -0419
 -0163
 234 388 -0038
 +0350 -0324
 -0095 +0062
 -0253
 819 114 -562
 -200 975 -093
 -537 -188 -822
 230
 49052
 -4457 -13
 -6528
 -130
 195
 7eet MV 113
 +10.1
 -1.7
 +14.8

41.093 96.8

0000 ± 73

-010 ± 55

2.51 15901

$$\begin{array}{r}
 9497 \\
 3184 \\
 \hline
 41.135 \\
 203 \\
 \hline
 19
 \end{array}$$

$$\begin{array}{r}
 2554 \\
 22.45 \\
 \hline
 3.09 \\
 2.30 \\
 \hline
 2.30
 \end{array}$$

1

3875
693

$$\begin{array}{r}
 10175 \\
 3050 \\
 \hline
 20325 \\
 20325 \\
 \hline
 20325
 \end{array}$$

$$\begin{array}{r}
 10221 \\
 + 11 \\
 \hline
 10232 \\
 - 054 \\
 \hline
 10178
 \end{array}$$

662

420

20.2 +30 06

084718

0747

~~22 484 26~~

3851585

0104 1514

d

Sp. B 453
wild bird

2474 52

10071-0207

400-070

131

17

10.9

49

15

10054 = 2.8 + 0.11524
+ 0.005

27 7.26511 - 2.27
+ 0.540 + 0.6

20.5 8.0 A2E (+ 8.09065)

A0515181
212391

31281
4066

15741 18854

- 348
1393

+ 66 = 7 12.04 1878.5

- 79
11.25

544

11.91 1945.13

800
400

15.714

34
746

13 99
710 70

11.79 1934.9

18.63
33
653

11.54
11.3

11.3
11.56



-22° 54'

$\Delta = 242$

1+4

RT Agv

22 20.5 -22 19

M6e -34d W(1)

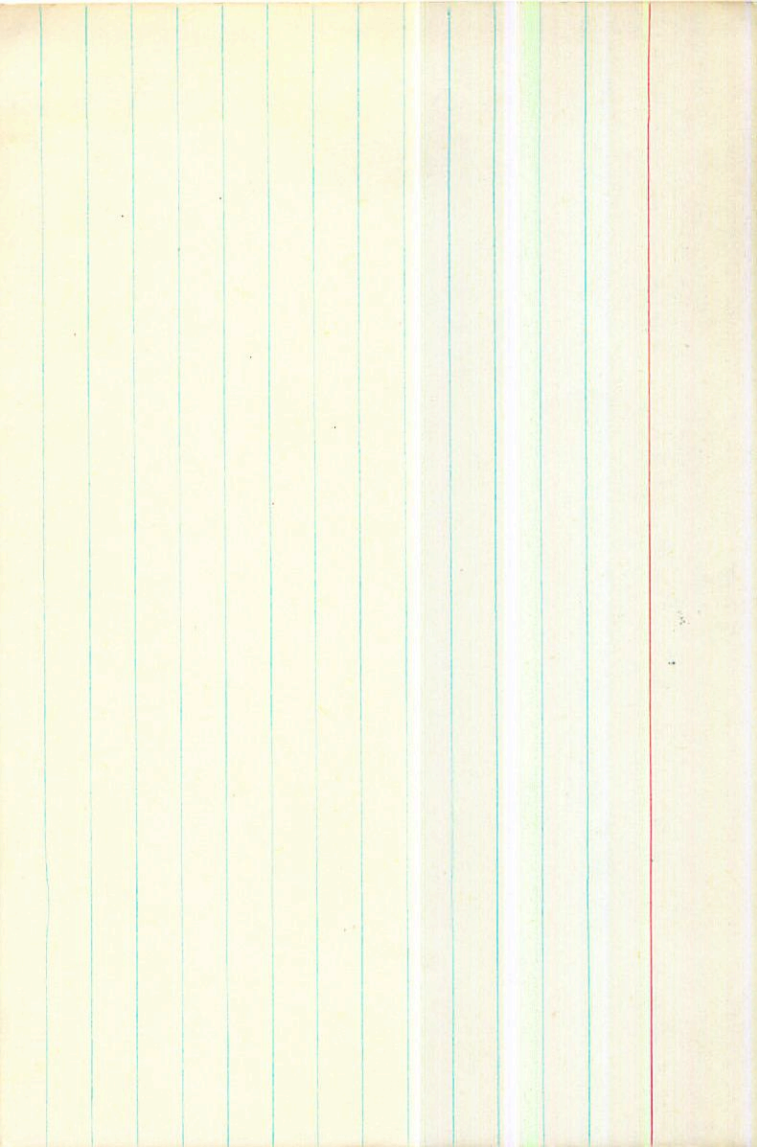
-43 em

v 8.8 mm

4535,180

+055^{±12} +045^{±12} ~~0 mm~~ ^{±12} X+Y

+038^{±12} -028^{±12} Y



212270

22 20.7 15 42

+11.6 M₂

Δm=10)

U_{centrum}

9.02 P₁₅

-5031-177 Combing

-045-177

-46

177

3.5

+11.6

76

五
五
五

三

三
三

三

三

三

三

1/0

R.A. : 22.350

DEC. : -15.700

PM. R.A. : -48.000

BM STAREE : -178.500

MODULUS : 50

RAD. VEL. : 11.500

q1 (U) : 0.821

q2 (U) : 0.383

q3 (U) : -0.424

dU : -493.659

U : -29.660

q1 (V) : -0.203

q2 (V) : 0.889

q3 (V) : 0.411

dV : -703.237

V : -30.480

q1 (W) : -0.534

q2 (W) : 0.251

q3 (W) : -0.807

dW : -98.569

W : -14.303

49 Apr

212271

22

20.7 -25

01 5.6969

-1058

40073 ±2.4
+0069
+004

31291

14073

43.864

1911.0

-25

0 57.91

1907.1

-285
43.579

20.305

23488

43.793

57

73

7

43.813

-227

.79

109
754
+195

25.3

32.11 1933.91

3355

59.56

62

57.94

20

57.74

59.09 1936.70

14
57.85

57.80

.7.11

257

36.3

29.2

212395 3302g

GC3130U

A05 15894 4.1-5.0

W14076 1.2

Y5414 6552 2.19

+2005139 3324

+35 -29 -10 .040

45 -33 -14 .030

~~45 -33 -34 .020~~

22 21.3

6.0 6.20

2 116

+20 84

279 2.615

303 152

2 116

df4 -23.40

-24.1W(7)

-23.5V(2)

John

140 474

461

(352)

(248)

+333 -014 GC

40 A (25)

17 M (10)

8 Y (6)

55 W (5)

3354

+0237 £2.4
+0230

-014 £1.9
-022

15.053 1883.0

+20 35 41.87 1878.8

-1.598

1.00

13.465

42.87

14.627

1412

41.34
19

1533.4

14.795

53.9

41.53
19

1440.44

41.67
19

7384

41.66
19

369

706

41.60
19

58.1

+1.241

-1.27

212085

B 17 2/11

Ap 4/22/22

22 21.7 -29 223

6.85 207 205 944

6.85

663214

70044-010 5/24

70046-007

1111 -011

5370 9805 9931-1966
0110 8486
0111

224 5/24

124
021
223

212487

22 21.7 +38 19 6.2 125 +488

+0215 45.5 +11944.9 30
+0215 +121

31315

14083

HR8536

41.208 18960 +38 19 5.17 1891.9

-1.161

40.047

37.90

5.772

40.627

70.9

70.2

40.761

761

31.8

58.26

27.0 1926.0

347.0

31.748

1.13

12.13

12.31

3.1

2.90

1929.7

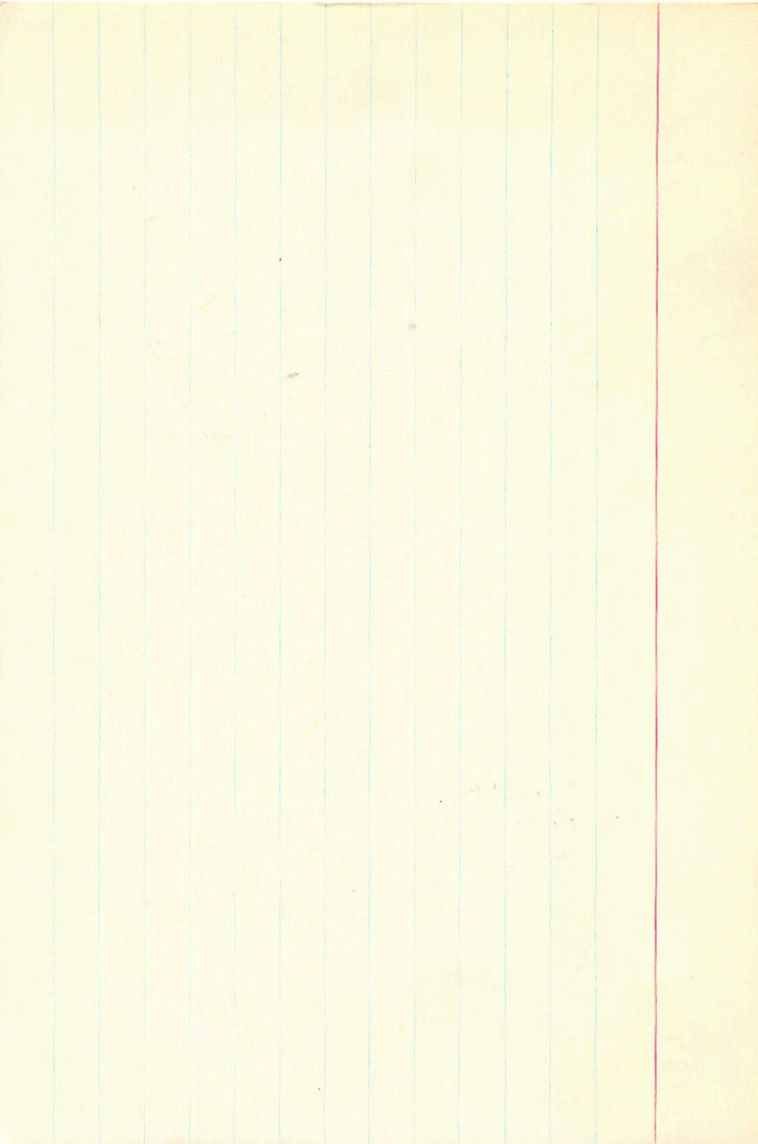
26.0

14.34

35.9

27.8

14.34



50 Apr

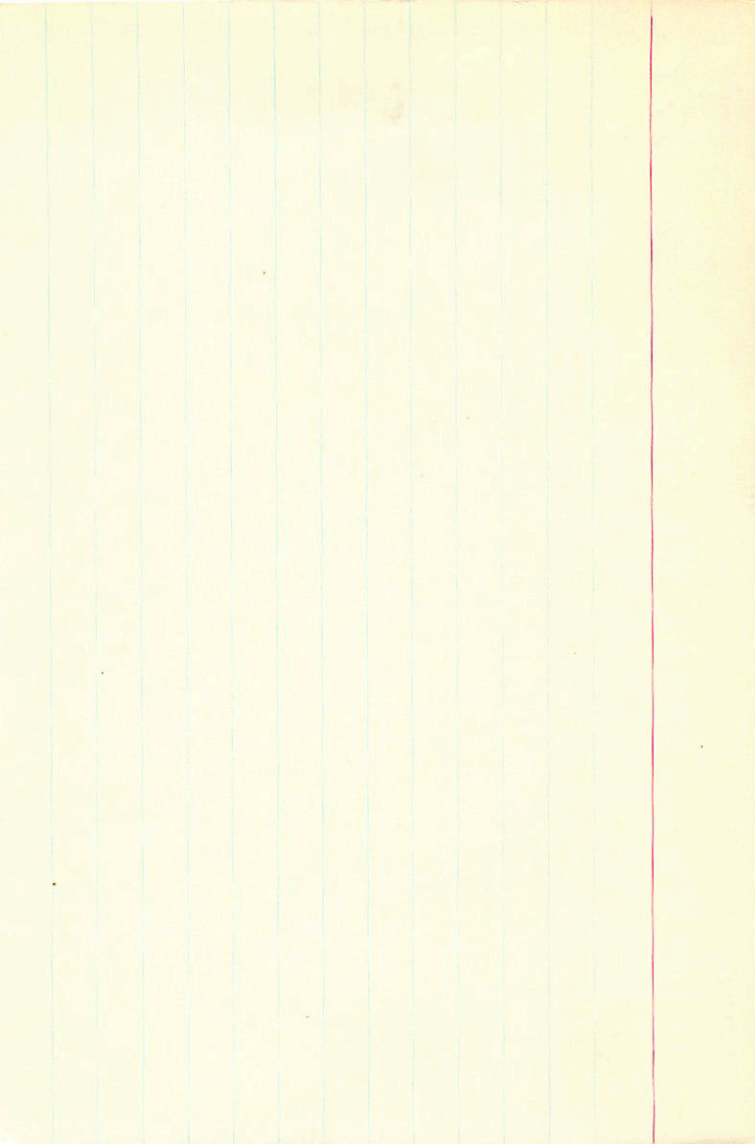
212430

31317

14055

22 21.8 -13 47 5.9 g 66-21.18

+0035⁴⁸ +019⁴⁹ N30
+0034^{±1.5} +018^{±1.4} G-L 3 M80



7450/29

+0071±2.9
+0083
+046

+038±2.8

22 22.0 -01 26 6.8 966 -326

212474
31323

1.038 14035 -0126 28.59 1898.7
-335
703

-1.95
30.54

0.703
43.801
17.2023
1.0021
9.17
9.174
9
0.995
-1.2
982

23.7

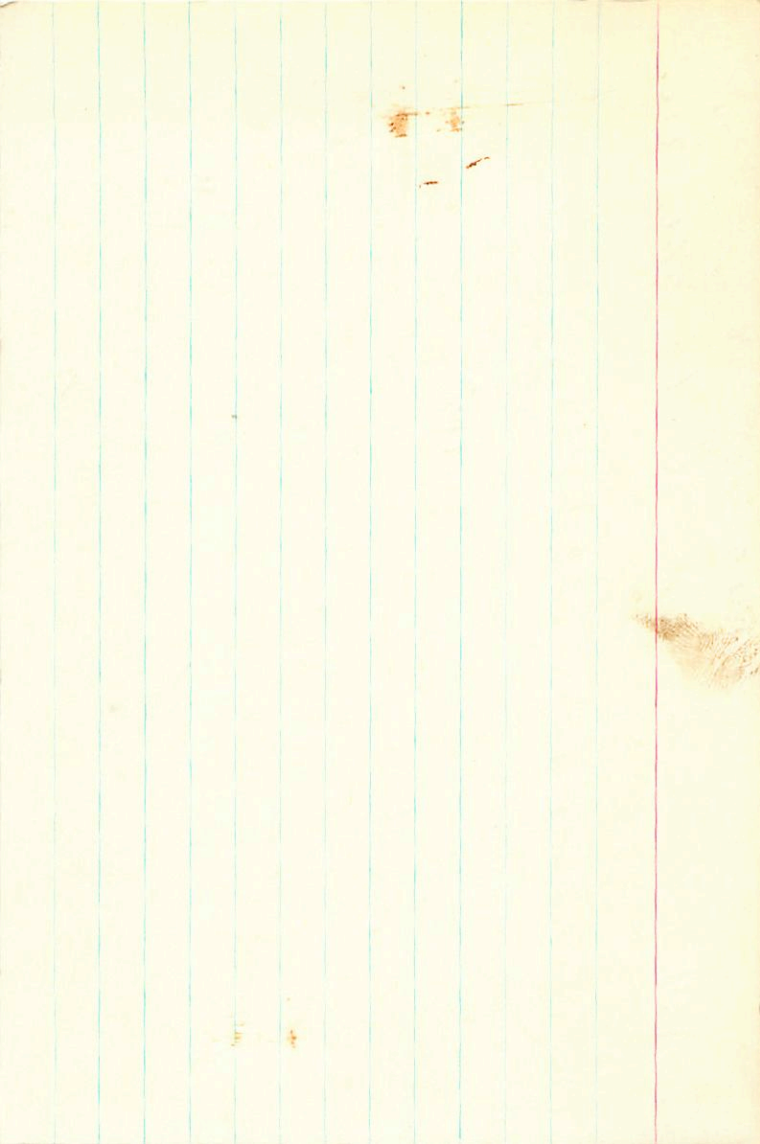
4.54 1934.30
34.85

362
36.8

29.57
29.22
28.80
28.80

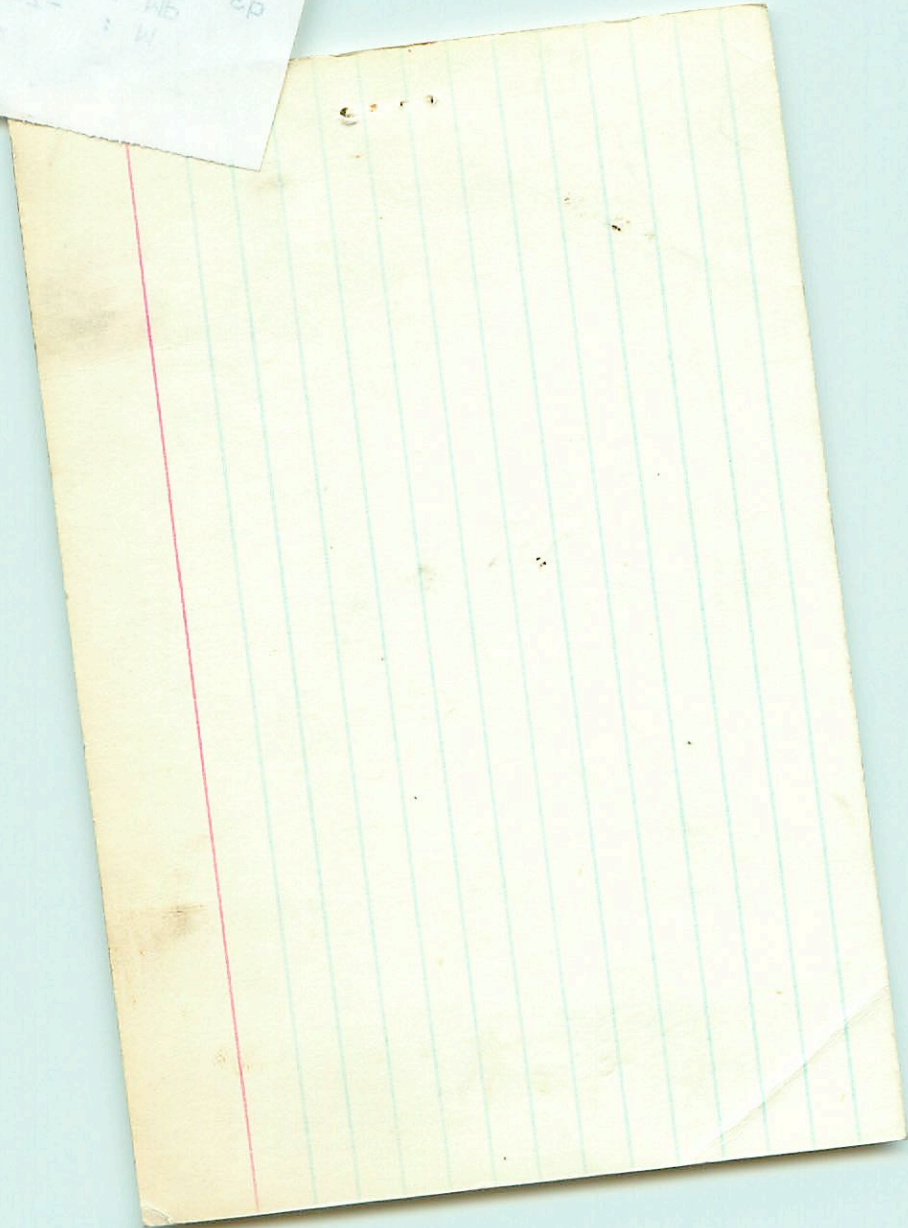
38.1

29.22
28.9
29.00 1939374
29.1
28.7



17

MB EP
W



793

T. Blue

22 22.8

-37 49

+14

-38015044

Pr²⁴

-0022 + 0023 C+1

My My poor

-0010 + 0004

Pr²⁴

+ 2

+ 1

-0045 + 6044

~~-0020~~

~~+ 0004~~

~~-0024~~

10000

822 196 -533

-0435 + 0037

-0858

-898

-96

-7.5

-267 977 092

+0235 + 0185

+0420

+420

+43

+06

-530 -076 -844

+0603 -0014

+0590

+550

+47

-11.8

E = +04

8.4 7.7

762 47

HL6 +0.50

HL6

11.

HL6 +1.00

1969/108

T Gum 22 22.8 -37 49

-0022 +003 Tals
+large

7/4 Halo?

mc M.
+002 -025
+3 -2

+005 -029

E +03

T Gum Halo

T Gum 8.4 +1.55 +1.00 -#0:
HO22537 9.7 +0.48 12.0

-58

11/24 +0002Y

-00 10 + 0.009 Y FRY

~~1000Y~~

~~00 10 10009~~

-0045 + 002 Cape FRY

~~5008 + 006~~

-0022 + 003 w/mean 700

¹³
~~0040~~

-000 - 001

1002 - 025 FRY3 MC
13
-2
1005 - 027 FRY

1.25
1.0
8.1
1.5
4.1

FRY + 1000

Yale - 012 + 008 #

Cape - 053 - 002 Cape

Hale mean - 026 - 001

MC + 005 - 031

8

0.000*

22.000*

22.800*

-37.000*

-49.000*

-0.026*

-0.001*

10.000*

1000.000

14.000

-0.102

-0.532

-109.819

0.021

0.045

21.587

0.066

-0.846

53.671

0.000*

22.000*

22.800*

-37.000*

-49.000*

0.005*

-0.031*

10.000*

1000.000

14.000

-0.010

-0.532

-17.214

-0.149

0.045

-147.884

-0.002

-0.846

-13.532

18

212647/8

22 23.9 -17 00 dG-1

HR854/5

6/18/19

Am 20.2

5.65

586 843 143 298 1

50 Apr

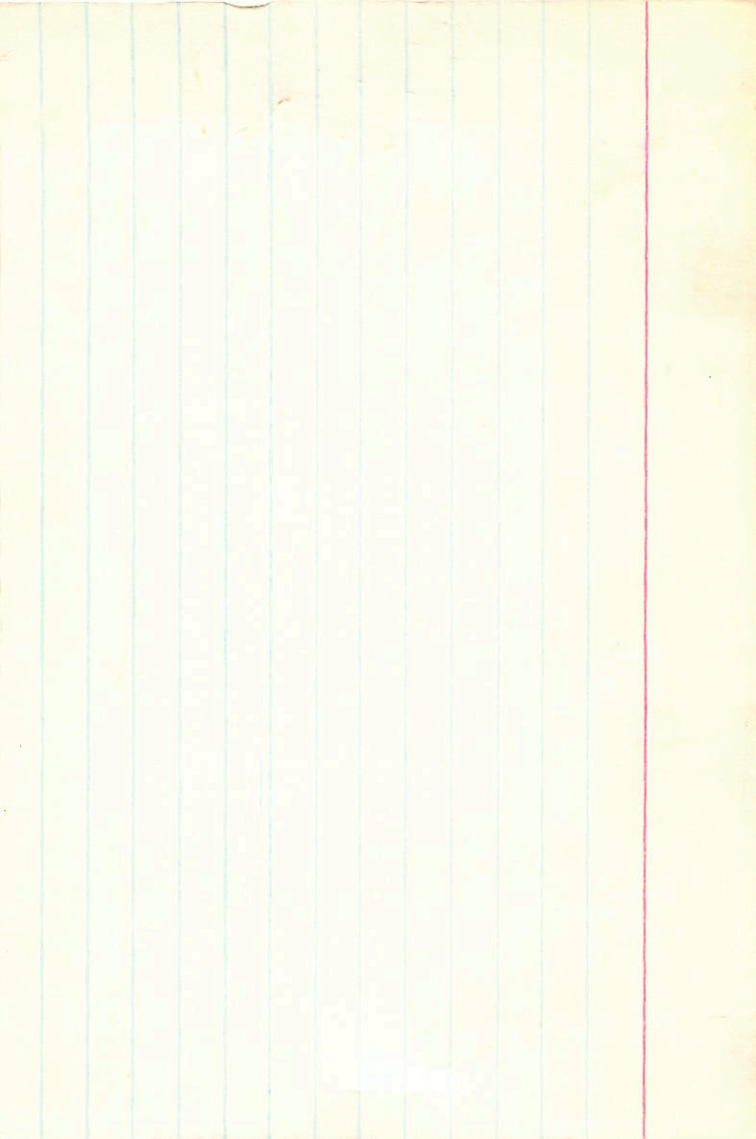
.391 1216 1271 2.612 ② 4/3/0,3

1/4

3 4 10
= 70

1.70 1222.6 -7.9 -9.5

1540 -272 -614



53 Apr

+0180 ± 1.8
+0184

-010 ± 2.2
-007

+1657 95

212 698

23.9

-17 00 6.4 dg2 -6.21

31349
14103

5m=20.14

3 0150 +102
+0151 +103
2166

6.6 dg1 -3.30
-4.8 a

AD515834

57.370
-880

5-9 46.27 1900.9

31348

50.490

+0182 -0085 Oct 49
+0183 -0075
+2625 -0075
+2644 -012

45,88

5457

29.985
21.065
51.020

32.9

23.47 1928.65
36.45
47.02

0.610
1003

095

46.43
46.36
46.07

18.04
37.0

51.208
192

+608

22.8
-1
1.0
-33

46.23
46.14

1939.34
46.10
-1.22

38.1

31349

10153 ± 2.2
+ 6148
164
36
+ 804
000 ± 2.1

~~0~~

51.648 1890.8 16 5-9 50.33 1890.6

$$\frac{-906}{50,742}$$

$$\frac{27.35}{36.45} = 1928.65$$

$$\frac{30.280}{21.068}$$

$$\frac{50.93}{59}$$

$$\frac{1804}{37.0}$$

$$\frac{51.348}{1.310}$$

$$\frac{50.34}{34}$$

$$\frac{43.17}{37.0}$$

$$\frac{296}{382} + 646$$

$$\frac{50.39}{9} = 1439.39$$

$$\frac{51.77}{466}$$

$$\frac{50.30}{9}$$

$$\frac{50.14}{4.19}$$

43.2

R.A. :	22.450	22.000*
DEC. :	-6.800	13.900*
PM. R.A. :	171.000	7.000*
PM. DEC. :	-105.000	0.000*
DISTANCE :	1.750	0.264*
MODULUS :	22	-0.012*
RAD. VEL. :	-9.600	1.350*
q1 (U) :	0.820	18.621
q2 (U) :	0.447	-4.800
q3 (U) :	-0.338	1.010
np :	444.380	-0.423
U :	13.195	20.840
q1 (V) :	-0.219	-0.315
q2 (V) :	0.814	0.388
q3 (V) :	-581.603	-7.723
np :	-18.184	-0.670
U :	-0.516	-0.819
q1 (W) :	0.371	-8.553
q2 (W) :	-0.772	
q3 (W) :	-599.781	
np :	-6.014	
U :		

2698.000*

+180

-68

19

-67

+0198 +086
+0202 +086
22 22

+0198 ± 2.2
+0515 ± 2.0
+0195
+051

FFS -17.88

10Y 05

170785
HR85-248

212754
31355

14105
-4.4
-4.4
5.5
280
280

+0504
+0195 +0525

+296 +051 6-
+254 +050

240g

11017.63
ADS45935

12m3 "binning"

4.65

1883.6

16.69 1890.6

-3.54

(6532)

1.315

3.340

(1041)

W14105

42A(20)
29M(6)

4.94
-1.8
5.27

1747

13.15

1922.9

(B) T30404

374(10)

15

744

1720

15.66

1922.9

+245 +083 +013

744

16

44 280

44 280

8732-995

744

4436

52.9

25436

126

116

4874

1170

433

2534

16.18

36.3

55.7

+2562

-128

372

11.00

2.85

2.85

55.7

(4298 +0495)

46

11.032

878 381

156

527

7640

-406 514 071 957 7294+050-12.8 004 -12 237

119 002 269 004 545 1.284-127-16+7 035

332178 433 214

+1+47 +6 32

+44 -16-6

0 144+6
+92+15-46

-2+39+9
+36-15-2

+2+50+8
+47-16-7

+33 -16-3

225

04
03

key
22 24.1 +4 8 dFS

212754

1409548

6031355

39 key

5.77 + 51 + 4 3544-

5.74 + 52 + 2 C

5.26 + 51.5 + 3 6544-

Conductor

10148 1051
+ 0200 4053

0.044 053

CMJ 206 ->

CMJ 351 + 25

320.188 417 250C 2.6225

6+

2.63

+13

+13

882

1207

9854 3036 ✓

1007 + 0210 ✓

0360 ✓

22 ✓

94 284
+ 0142 -17.8

+ 52

-22.2

0.258 4049 ✓

20

20

22.400
4.100
299.000
48.000
4.600
83
-17.800

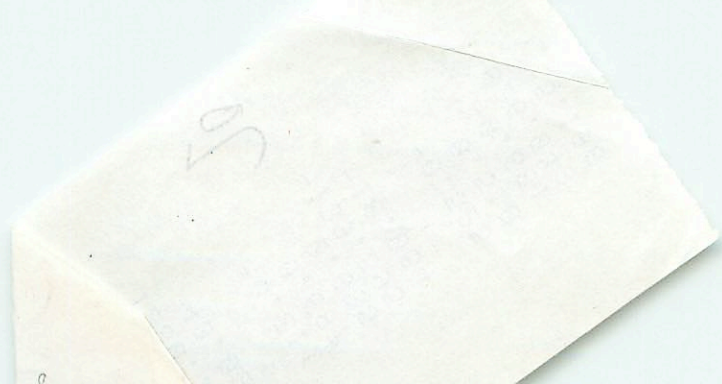
53.15
22.73
~~58~~

0.825
0.503
-0.258
1280.128
111.077

65.45

-0.211
0.697
0.685
-139.595
-22.803
4 5

-0.525
0.510
~~-0.581~~
-626.043
-33.946



213013
31389
14118

22

25.8

+23

17

8.3

dB8

-19.78

+0043 ± 4.8

-033 ± 3.1

+0033

-038

8.8 dir2 (-232)

ADS15966

50.786

1894.9

+26

13

38.34

1898.6

dm = 20.44

-237
1549

2.03
40.37

41.1

51.056

50.689

~~51.40~~

50.727

513

402

50.701

+152

39.17

19373

420

38.7

1934.8

-15

38.52

1969

38.84

1.53

721

36.0

47.4

