

4774

12 31 02

-18

41

5.70 dHf

28 Nov 71

5.71 +0.395 00

5.74 +0.37 (+04)

5.72 +0.38 +0.02

$$A_{21} = 4^{2m} \cdot 2^2$$

4758

12 25 31

-13 14 6.41 2F8

24mar71

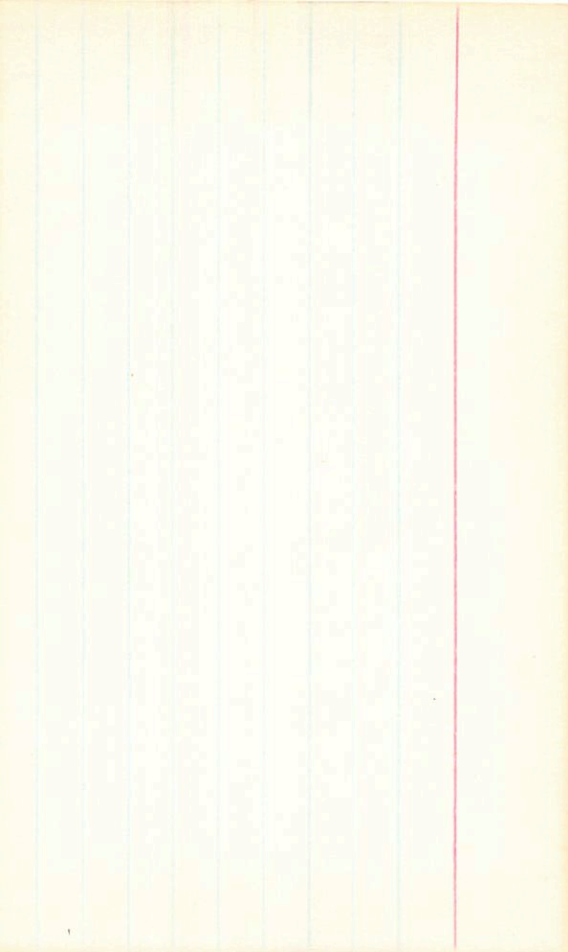
$$6.40 + 10.57 + 0.15$$

$$6.37 + 10.69 + 10.03^{25mar71}$$

$$\underline{6.38} + 10.585 + 10.02$$

1404756 12 28 12 +01 03 6.7 A3

21 Jan 22 5.67 +0.09 +0.13



12^{~2}"

109799

12

35

56

-26

57

545

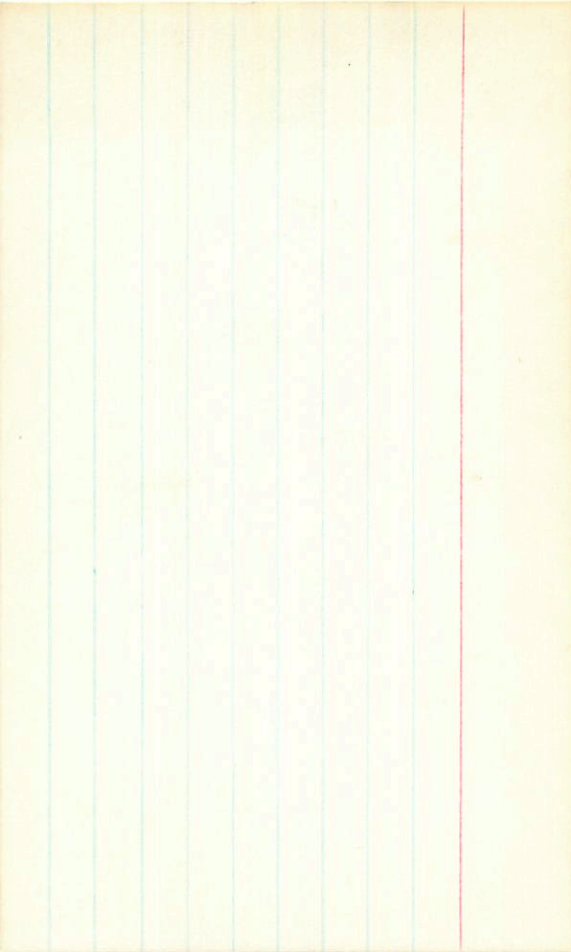
+31+05

✓

$$5.46 + 0.33 + 0.0430mg$$

$$5.40 + 0.36 + 0.0131mg$$

$$\frac{5.42}{+0.335} + 0.025$$

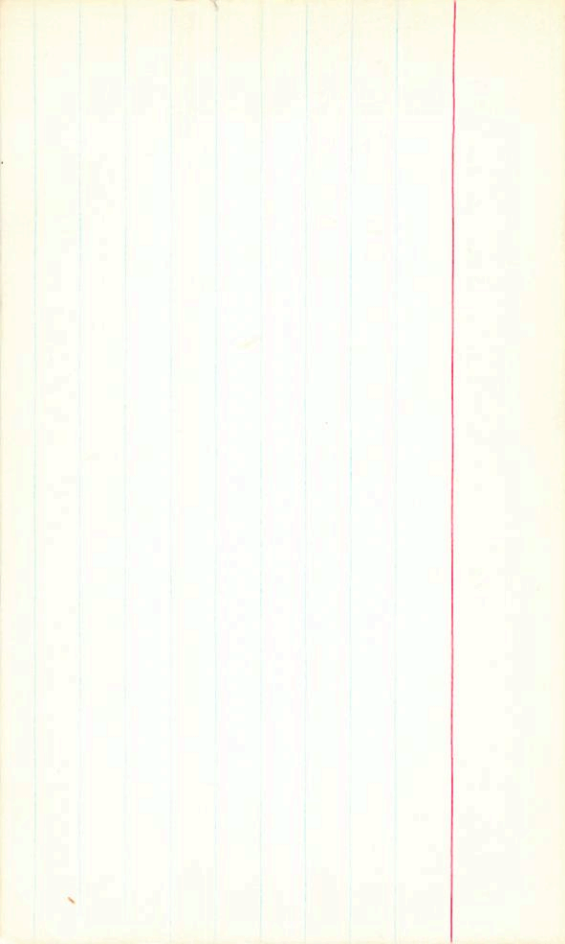


4767 12 34 24 20 22 6.12 145

Cape 6.19 + 34 00

24m 6971 6.23 + 0.33 + 07

6.21 + 335 + 035



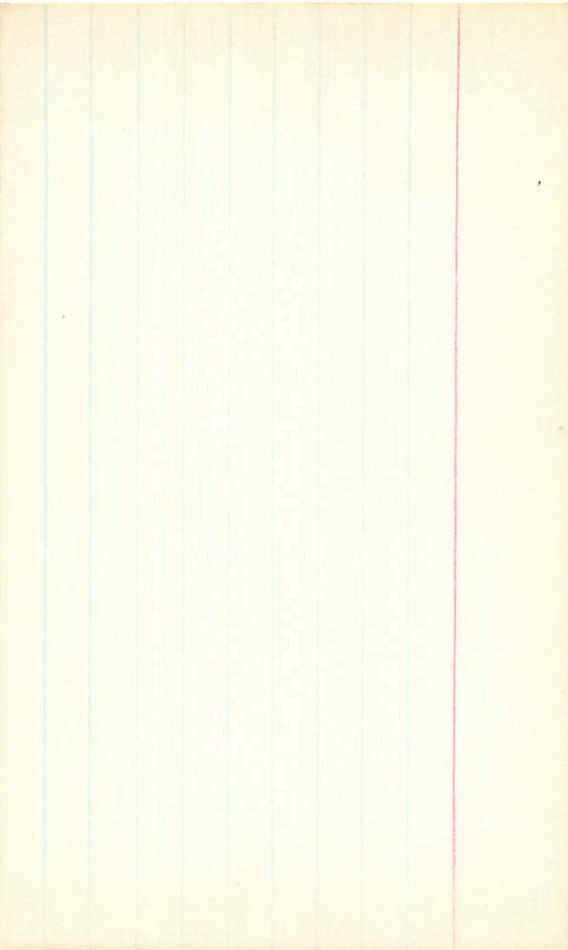
109312 12 32 11 -49 43 6.37 +0.46

13th 8th

$$\begin{array}{r} 6.42 + 0.43 + 0.035 + 30mg^{20} \\ 6.39 + 0.42 + 0.01 + 31mg^{20} \\ \hline 6.40 + 0.425 + 0.02 \end{array}$$

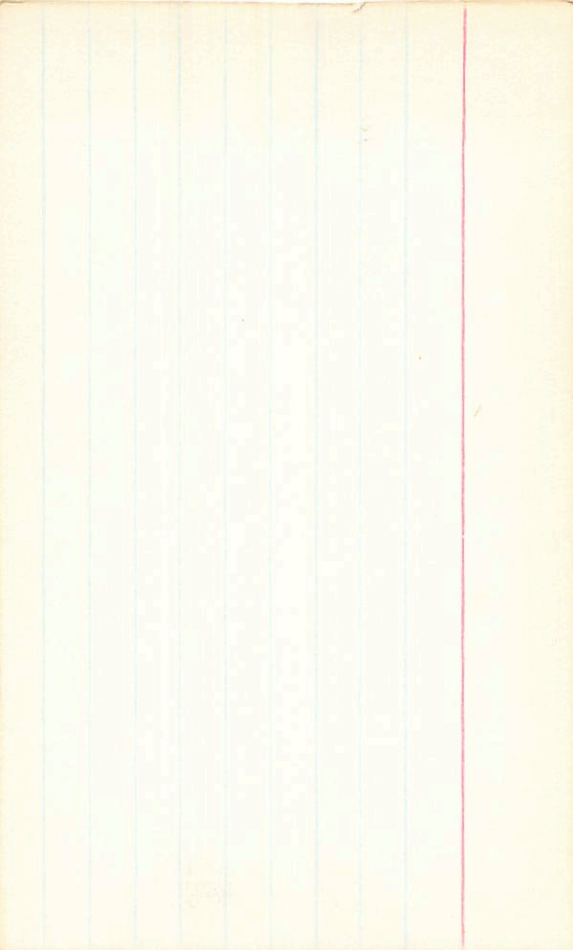
110385 ✓ 12 40 06 -19 34 6.03 +39

6.07 70.39 +0.0930mg 70
6.01 70.42 ~~+0.0531mg 70~~
6.04 70.40 +0.07



4R4824 12 40 03 +10 34 6.3 47

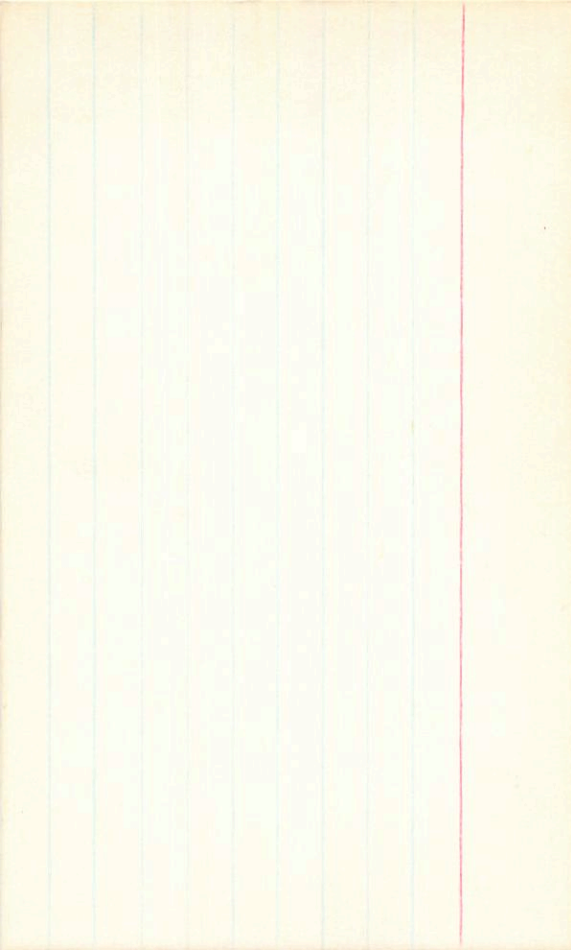
21 Jan 22 6.33 +0.20 +0.10



109931 12 37 00 -18 04 5.58 +0.26

✓

30mg	6.06	+0.285	+0.115
31mg	6.98	<u>+0.32</u>	<u>+0.10</u>
	6.02	+0.30	+0.105



113537 13 03 12 -46 56 6.40 +0.40

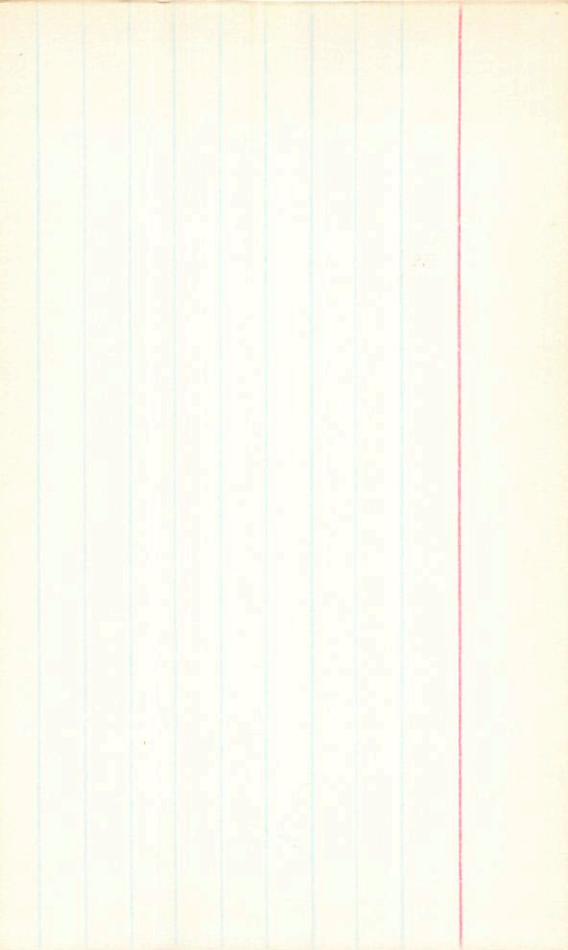
✓

6.47 +0.41 +0.16 30mg
6.39 +0.37 +0.13 31mg
6.43 +0.39 +0.15

HR 5900

12 J2 19 +12 35 6.2 Am

21 Jan 22 6.25 +0.28 +0055



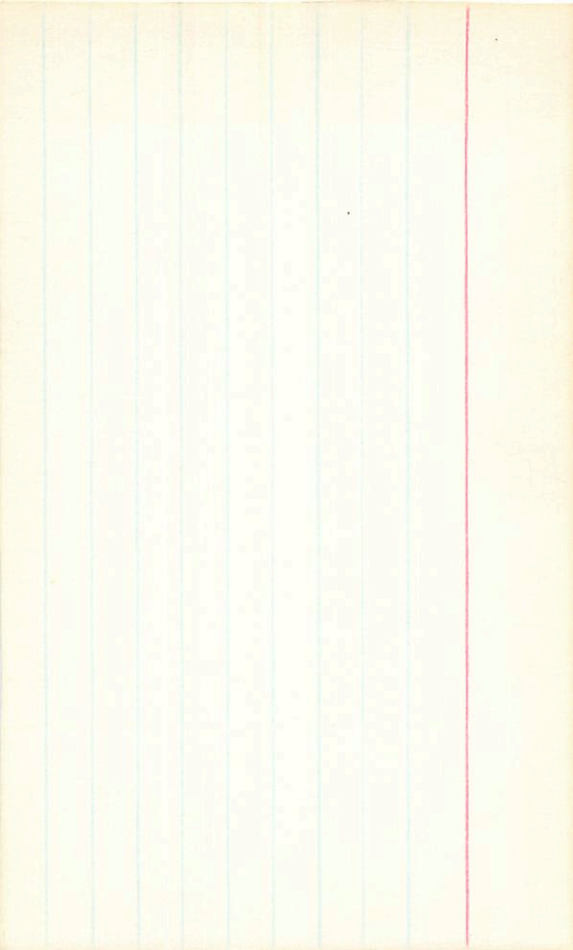
14R4865

12 47 25

414 17

5.7 A2

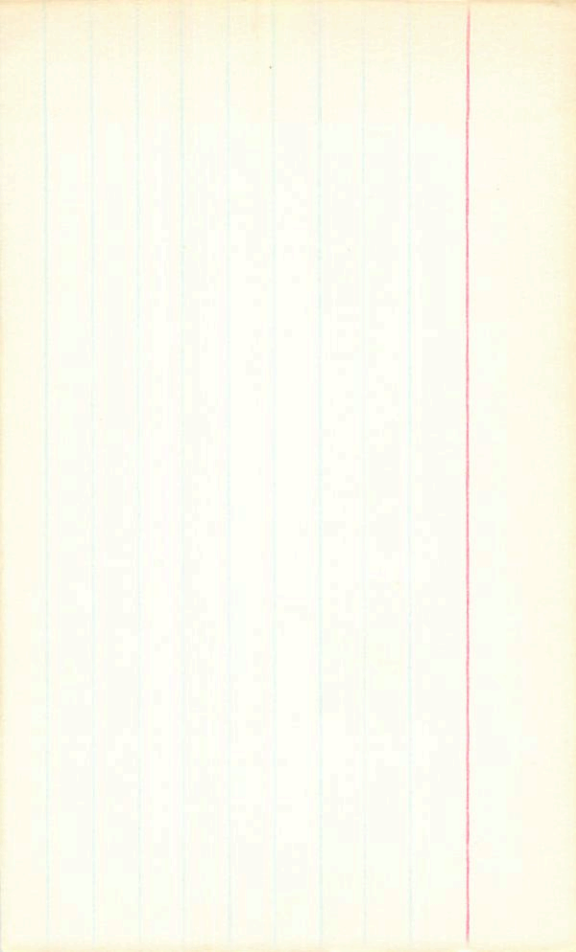
21 Jan 72 5.71 + 0.015 + 0.075



HRV855

12 45 43 +12 07 60 A3

21/Jan 72 6.12 +0.12 +0.13

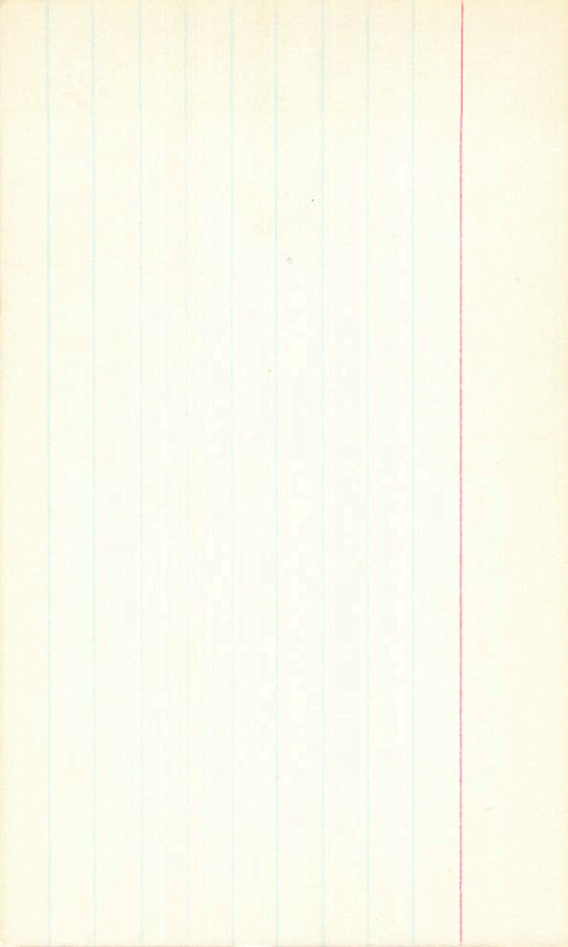


$\sigma_m = 0.00012$

114576 13 09.51 -26 23 6.50 +0.19

✓✓

6.51 +0.21 +0.15 302²⁰
6.50 +0.22 ✓ +0.085 31-g
6.50 +0.215 +0.115



114435

13 09 15

-42 045'78 +0.52

✓ ✓

3070 5.83
3070 5.78

+0.515 +0.165
+0.515 +0.145
+0.515 +0.155

4968/9

130831

+17

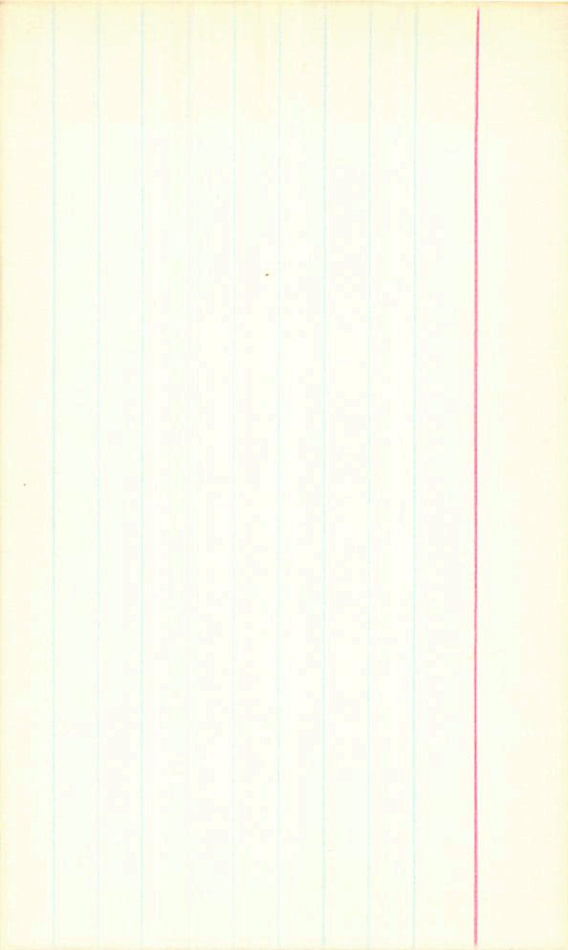
41

4.5

552

2600

16800
4.28 + 0.47 - 0.04



5m=00

118261 13 34 57

-61 21 5.63+0.47

$$\begin{array}{r} 5.62 \\ 5.63 \\ \hline 5.63 \end{array} \quad \begin{array}{r} +0.50 \\ +0.51 \\ \hline +0.505 \end{array} \quad \begin{array}{r} -0.035317m \\ -0.0524\mu m \\ \hline -0.04 \end{array}$$

✓

117718

13

30

43

-29

23

644+0.44

✓

✓

26mg⁷⁰ 6.44 +0.42+0.015

31mg⁷⁰ 6.46 +0.415-0.02

6.45 +0.42-0.00

1584

10

82

12

24

-58

56

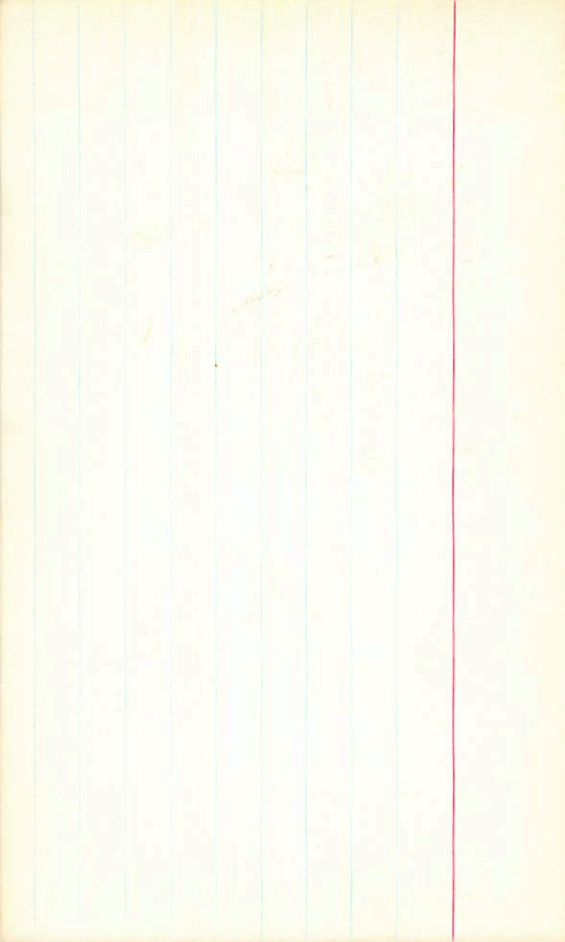
~~451~~

~~449~~

24m 71 4.52 + 0.485 - 0.085

ave $\frac{4.51 + 4.5}{2} - 0.04$

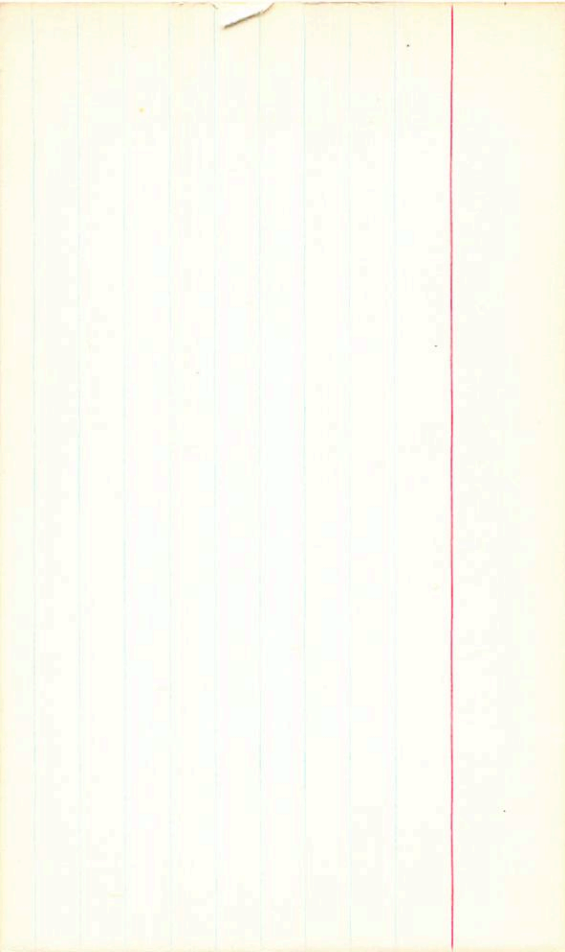
$\frac{4.52 + 4.5}{2} = 0.6$



$$S_m = 0.16$$

$$5222 \quad 13.5148 \quad -235.31 \quad 5.64 dPL$$

$$\begin{array}{r} 5.55 + 0.44 - 0.424 \\ 5.52 + 0.42 - 0.4374 \\ \hline 5.54 + 0.43 - 0.405 \end{array}$$



118646

13 36 51 -29 23 5.83 +0.79

✓ ✓

26mg 70	5.81	+0.405	+0.01
30mg 70	<u>5.82</u>	<u>+0.41</u>	<u>+0.005</u>
	5.82	+0.405	+0.005

5129

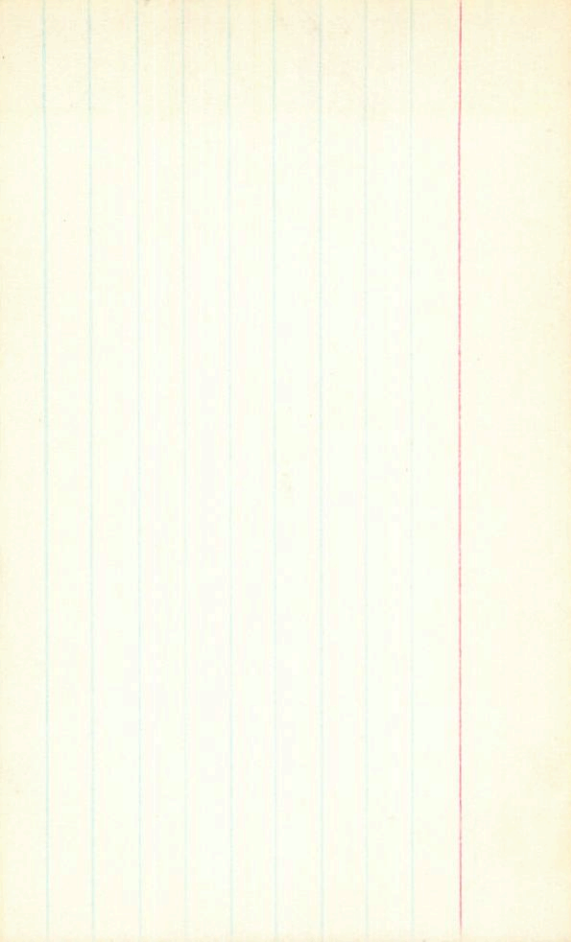
13 36 39 414 26 4.315FO

28 mar 71 6.48 +0.285 +0.055
30 jun 71 6.50 +0.285 +0.105
6.49 +0.265 +0.08

121901 13 57 36 -61 20 6.48 +0.34

✓✓

26 May²⁰ 6.49 +0.32 +0.05
28 Jun²⁰ 6.53 +0.33 +0.05
6.51 +0.325 +0.05



122066 13 58 08

24 J1 5.8 F8V

✓

$$\begin{array}{r} 5.78 + 0.48 - 10.043 \text{ m} \\ \hline 5.81 + 0.47 + 0.628 \text{ }^{20} \\ \hline 5.79 + 0.475 + 0.05 \text{ }^{\text{fine}} \end{array}$$

90
104 09 6.0 104
12-19 05 05
13 21
[220] 0220

603 10.04 10.02
20.04 17m 22

5175 13 45 34 -50 06 5.50 +30

5.51 +0.27 -0.065 8/27/71

5.89 +0.305 +0.85 24mar71

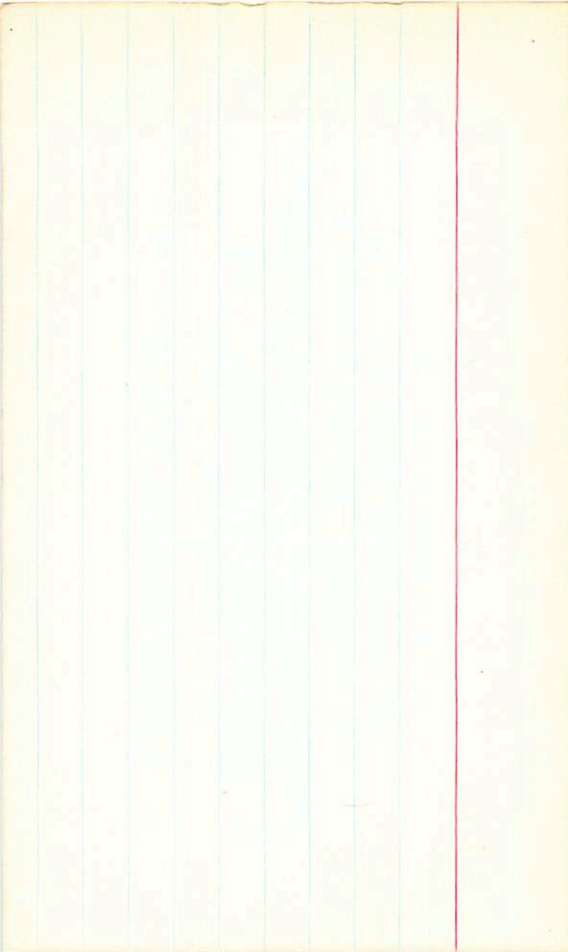
5.90

+30

5.90

+0.29 +0.075 ③

Curve



HR5349

14

17

39

-61

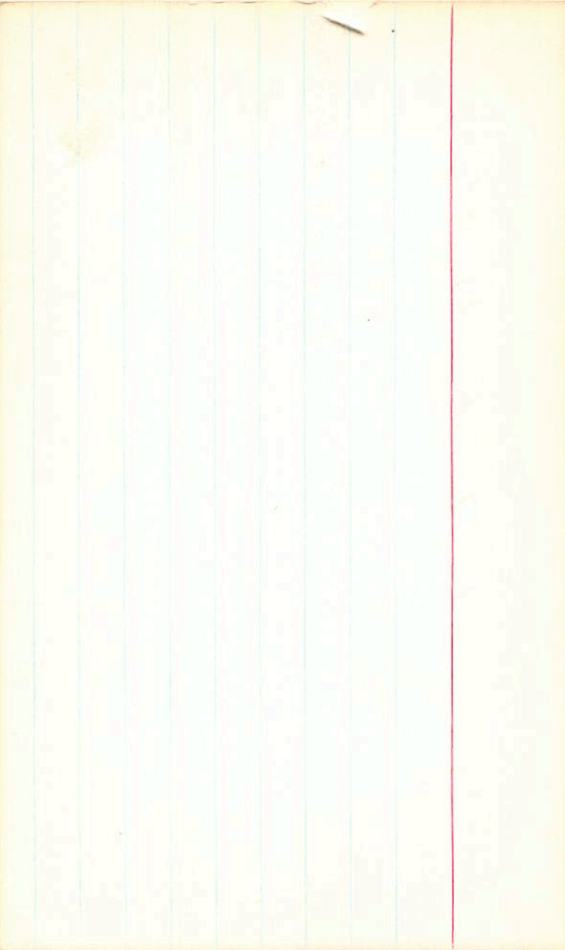
09

5.22130

Large 5.22 + 80

5.21 + 0.27

to 14 24 min
21



526.4

14

18

48

45

04

4.76

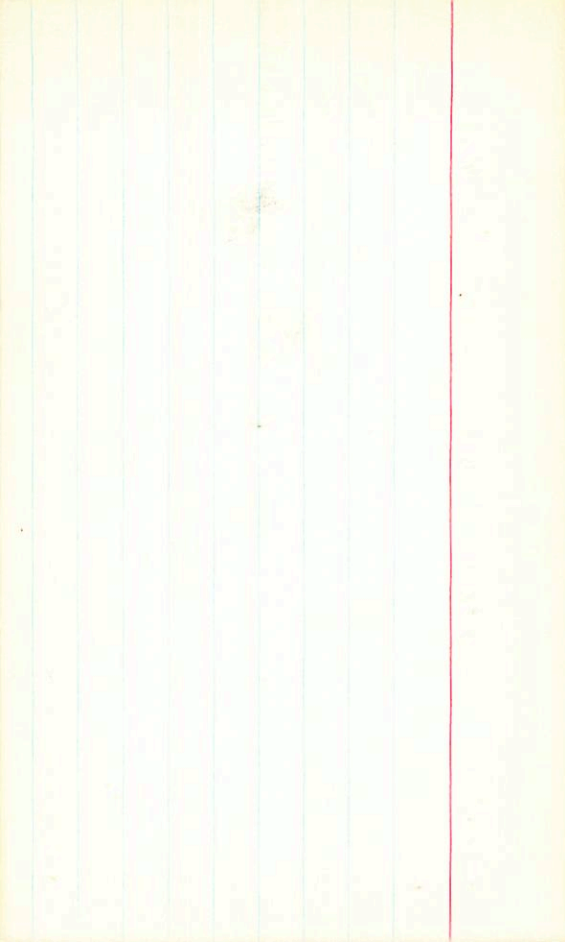
+0.2

Curve

4.76 + 0.2 (+0.2)

24 men 71 4.78 + 0.34 + 0.3

4.77 + 0.33 + 0.025



125276 14 17 06 -25 40 5-86+0.47

10.5 3'

✓✓

26 May 5.88 +0.49-0.115
 31 June 5.85
~~5.85~~
 5.85
 64.04
 21.0- -0.12

5325 14 13 43 44 52 630 85
160

low 6.30 +60 (+065)
24m 6.37 6.19.04 +0.615 +095
6.34 194 461 408
48.9

129926 14 44 05 -25 17 62 F1 9"

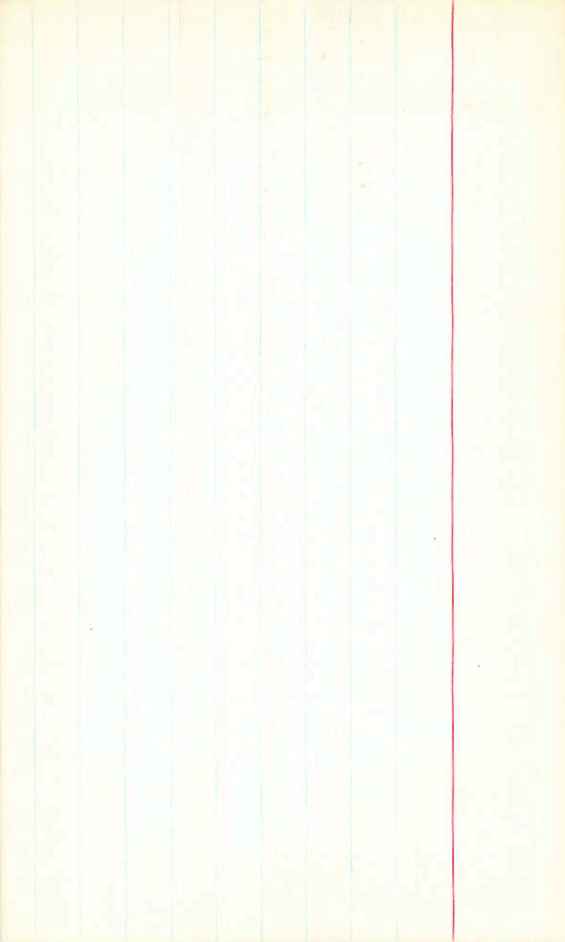
7.1dF9

5482 14 42 55 62 40 53 80

sum 6.35 +30 +03

24mm71 5.36 +0.305 +06

5.36 7.305 +0.065



128617 14 37 11 - 48 55 6.38 +0.44

✓

20mg⁷⁰

6.40

+0.43 0.00

31mg⁷⁰

6.38

+0.46 +0.015

6.39

+0.445 +0.01

127486 14 31 11 -54 52 5.86 +0.48

✓✓

21mg ²⁰	5.87	+0.475	+0.025
31mg ⁵⁰	5.87	+0.48	+0.05
	<u>5.87</u>	+0.48	+0.04

3665 15 12 10 +23 06 6.21 A2B

6.30 10.07 17mg72

3876 15 45 55 +14 12 5.70 +0.9 A2B
17mg72 5.71 +0.10, +0.09

6

5574 14 55 42 121 40 6.22 A1Z

650 10.015 10.02 17mg72

Winds

B1117 14 50 32 -30 26 6.29 +58

✓✓

26 May 70 6.31
28 May ~~6.27~~
6.29

+0.59 +0.125
+0.61 +0.135
+0.60 +0.13

134359 15 20 28 -60 33 5.65 +0.48

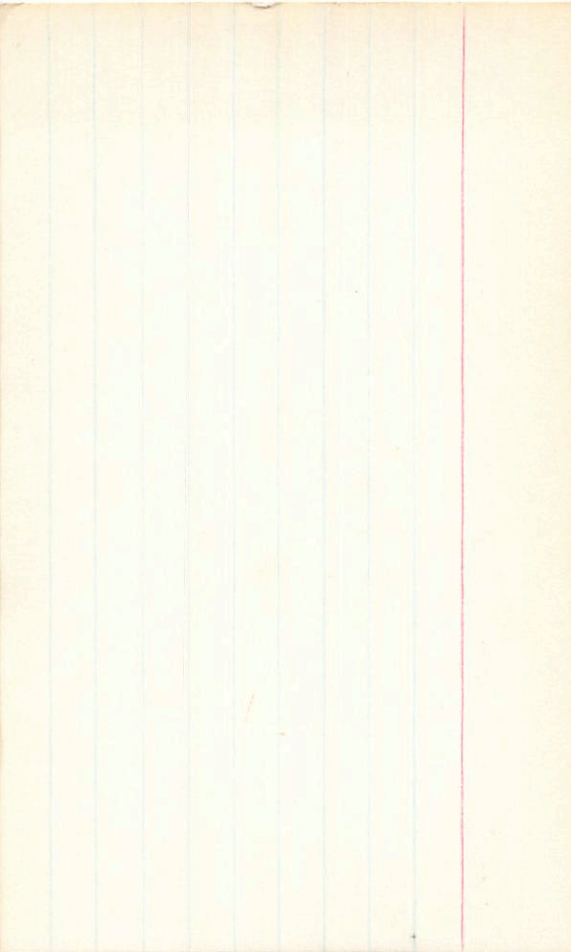
✓

26 May 70 5.67 +0.48 -0.01
28 May 70 ~~5.67~~ +0.50 -0.005
5.66 +0.49 -0.005

136352 15 19 33 - 48 11 564 +0.65 +06
899

Done ✓

20mg 20 5.68 +0.64 +0.06



136357 15 19 48 -47 49 5.00 +47

✓

~~20 May~~ 20 5.03 +0.485 +0.035
28 May 4.99 +0.515 +0.05
5.01 +0.50 +0.04

1382068 15 29 48 -20 03 6.16m=00

✓
✓

11" { 7.7

28 May 70 6.33 + 0.25 + 0.145
24 Jun 70 6.31 + 0.245 + 0.145
6.32 + 0.25 + 0.145

9.07 + 0.60 + 0.04 28 May 70
9.04 + 0.58 + 0.03 24 Jun 70
9.06 + 0.59 + 0.035

135208 15 12 31 -18 19 6.74+48 -10

1' South ← 8.56+54-14

1 m Sounding

✓

26m 20 6.78
28m 20 6.71
30m 20 6.84

+0.42 -0.03
+0.45 -0.005
+0.435 -0.02

26m 20 8.60
28m 20 8.72
30m 20 8.61

+0.495 -0.075
+0.45 -0.075
+0.49 -0.075

138204

15

29

54

-38

31

6.24+21

✓

26 May 20 6.26

+0.215 +0.085

28 May 20 6.24

+0.24 +0.09

6.25

+0.225

+0.09

total

170417

15-

42

13

-15

33

5.40

+24

✓

27 May 70 5.45

28 May 70 5.41

5.43

27 May 70 5.45

28 May 70 5.41

5.43

+0.24 +0.11

+0.07 +0.08

+0.04 +0.05

27 May 70 5.45

28 May 70 5.41

5.43

+0.24 +0.11

+0.07 +0.08

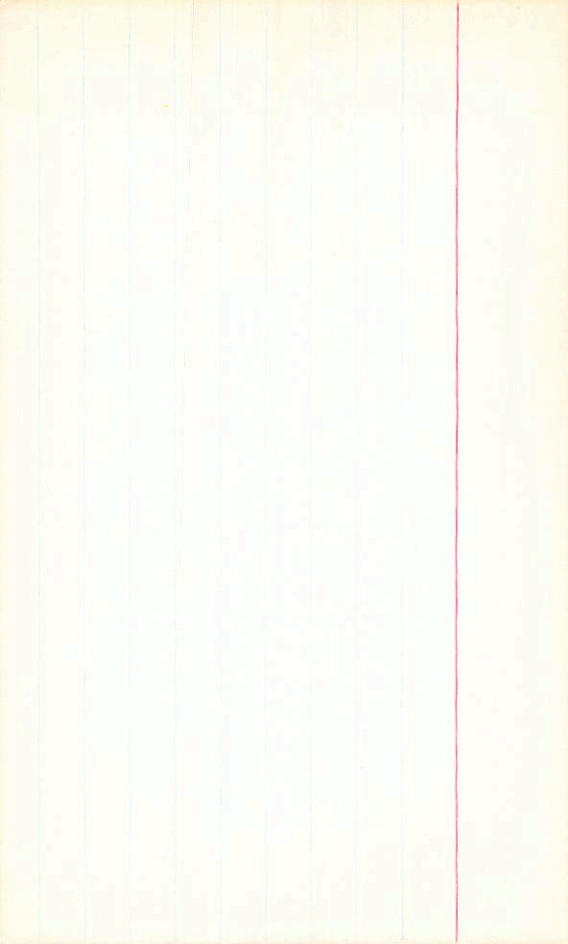
+0.04 +0.05

13924 15 37 14 59 47 55 + 48

✓
✓
28m 20 59 47 55
15.07 40.5
500.0 - 0.005
10.0 - 0.0
505.07 55.5
+0.07 55.5
-0.02
-0.0

3804. 15 05 07 +16 13 5.85 AG

15 Apr 71 5.83 -10.345 70.03



5913

15

52

12

+16

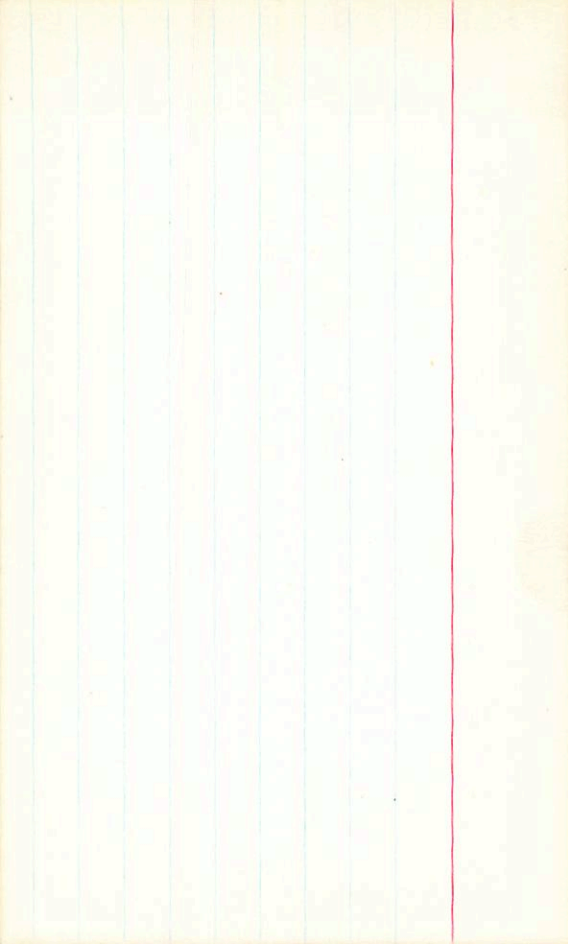
10

6.04 d 152

24 March 6.16 +0.472 +0.075

15 April 6.21 +0.435 +0.065

6.19 +0.425 +0.07



5890

15 45 55

+14 12

5-70 to 9

A22

12mg 72 571 +0.10 to 0.09

15m = 0.0

140722 15 44 12 -27 57 6.50+34

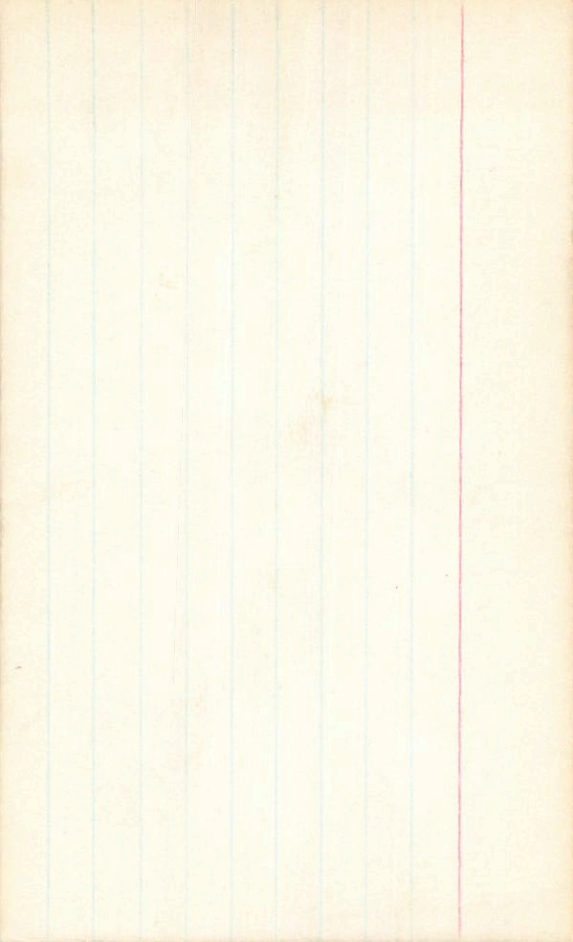
✓

20mg⁷⁰ 6.52 - 0.305 + 0.10
 28mg 6.47 + 0.35 + 0.07
 6.50 + 0.33 + 0.085

142640 155422 -148 6.4 d f 5

✓
✓

Aug 20 6.30 +0.475 +0.045
24 Aug 20 6.32 +0.515 +0.02
6.31 +0.495 +0.03



5405

15

53

32

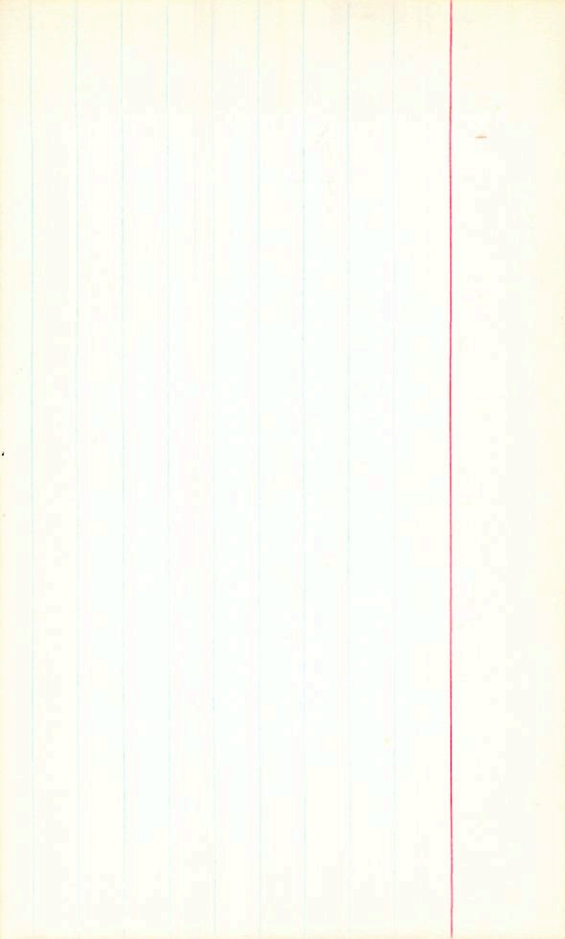
40

24 5.75 + 06

5.75 + 06 + 105) 692

5.75 + 0.09 + 12 2472071

5.75 + 0.075 + 0.115



5974 14 02

23

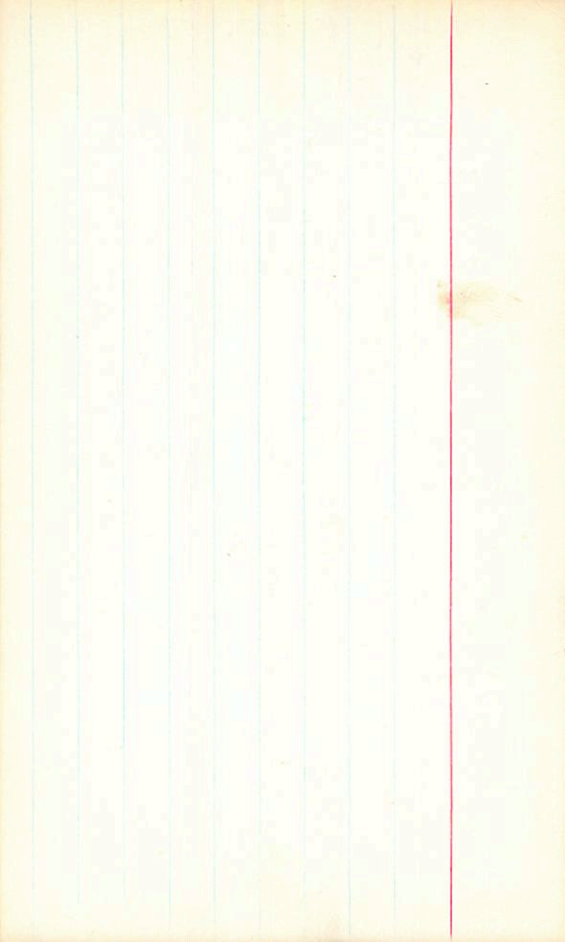
23

-33

08

6.219 FD

$$\begin{array}{r} \text{Cm } 6.09 \quad +35 \quad (4025) \\ \hline 24 \text{ мая } 6.05 \quad +0.365 \quad +0.015 \\ \hline 6.07 \quad +0.36 \quad +0.2 \end{array}$$

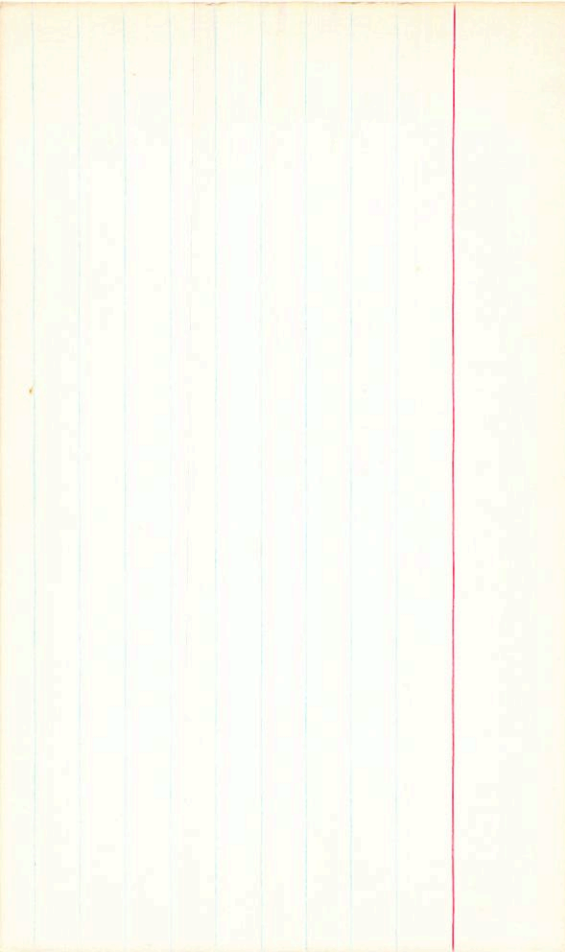


5400 . 15 53 00 -60 06 5.76 + 35

Case 5.76 + 35

24Mar71 5.76 + 0.39 + 0.11

15Apr71 5.79 + 0.38 + 0.12
5.78 + 0.385 + 0.115



6019 14 11 00

SS 25

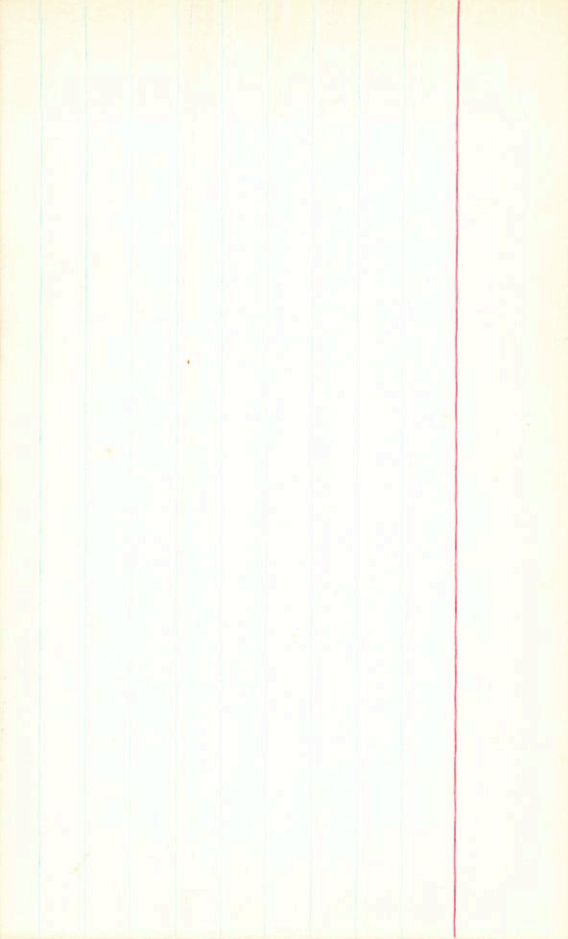
580 +34

6019 5.80 +35 6035

247071 5.83 +0.33 +0.6

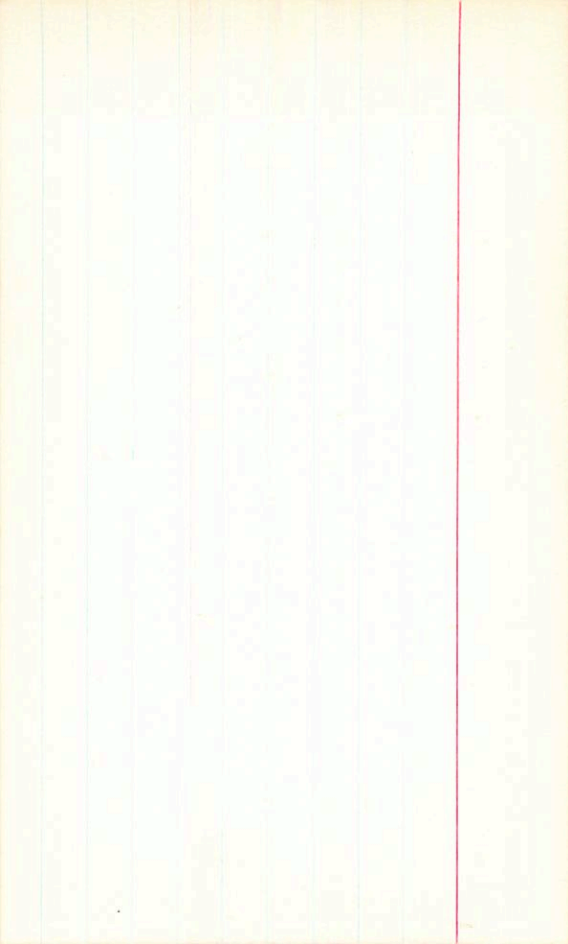
158071 5.74 +0.325 60.045

5.81 +0.33 +0.05



HR5991 16 05 12 -36 40 571-30

Case 5.72 +30 +0.015
24man1 5.72 +0.32 +0.035
5.72 +31 +0.025



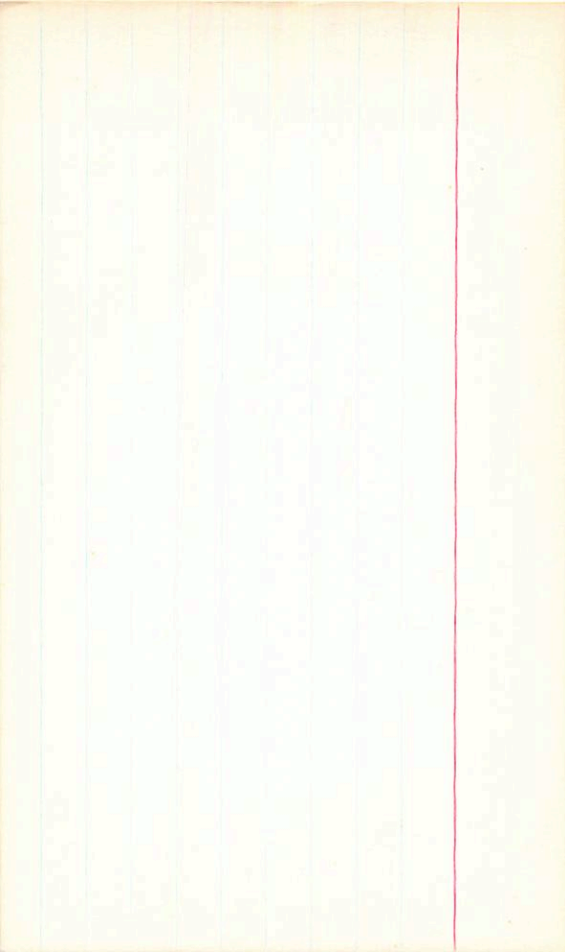
HR5975

16 02 25 52 20 71
044055 44 28- 52 50440

Cont 5.50 +40 -06

24mm 16mm 15.5
5.5

100 24.04 144
741 580 -035



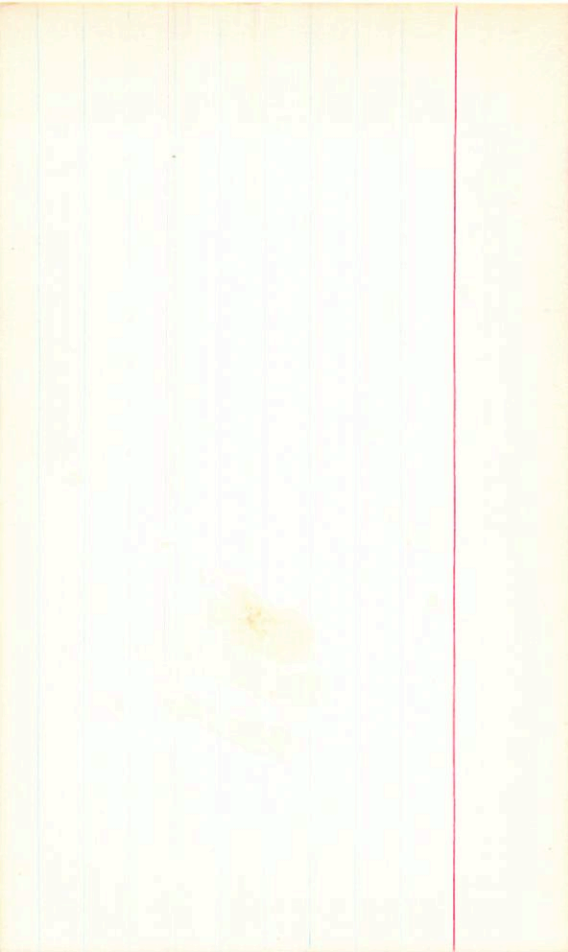
150453 16 40 00 -14 52 5.6 d f 6

✓

24 Jan 20 5.57 40.47 -0.05

6181 14 86 25 + 13 46 6.20 Fr

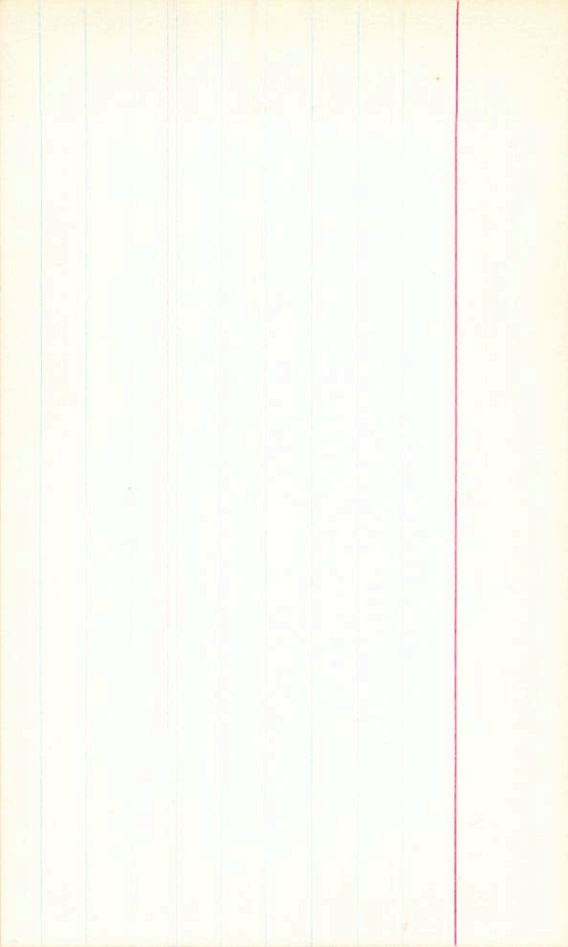
24 May 6.30 + 0.435 - 0.01
15 Apr 71 6.30 + 0.435 + 0.035
6.30 + 0.435 + 0.01



6059 16 15 18 -53 01 630+29

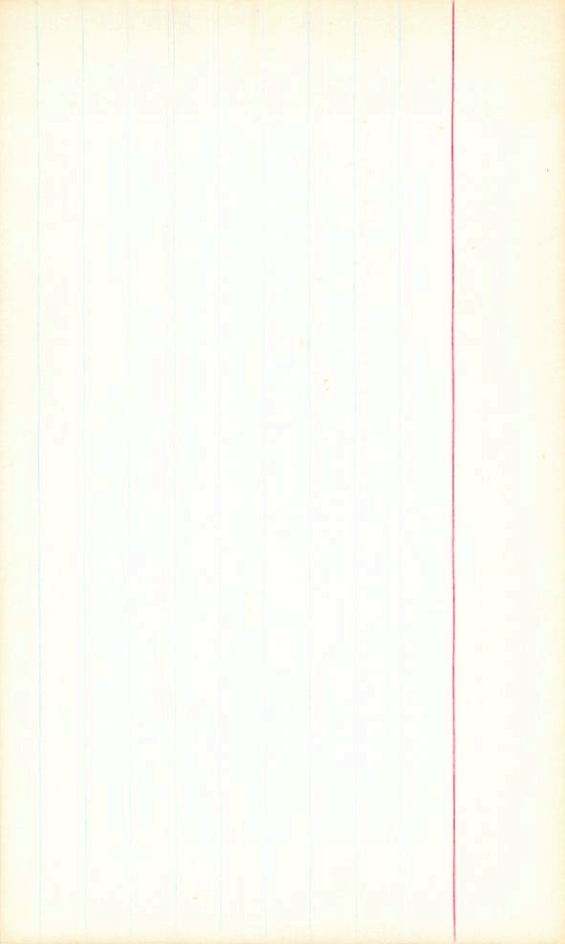
Cape 6.32 +0.29 (+04)

24mm71 6.30 +0.28 +0.11
6.31 +285 +0.08



Q70 16 53 53 +13 40 6.09 152

24/00071 6.35 +0.34 10.05
15/00071 6.35 +0.335 10.05
6.35 10.34 10.05



6277

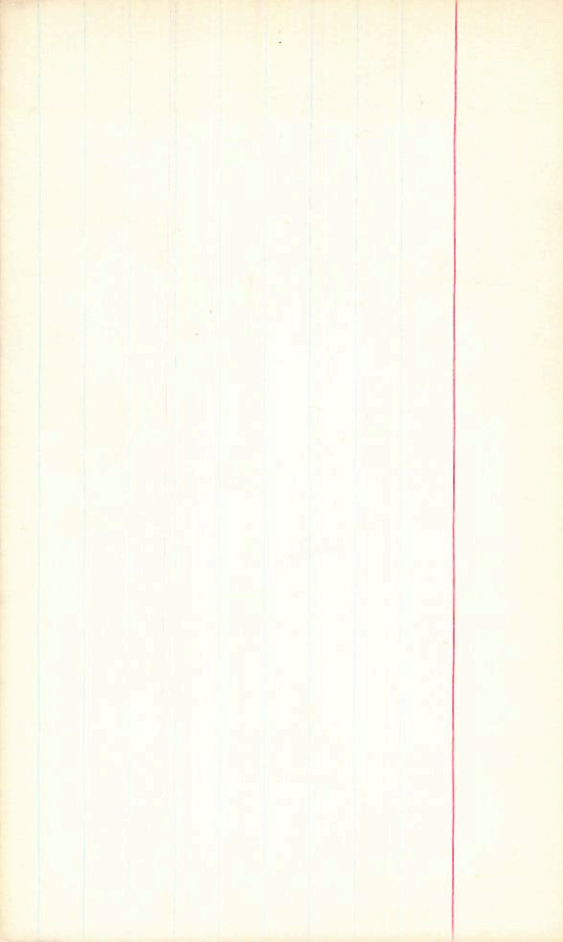
16 52 38

- 1 34 651 F0

24 March 6.21 +0.295 +0.11

15 April 6.25 +0.28 +0.12

6.23 +0.285 +0.115



150366 16 39 34 -24 24 6.07 +22

✓ 24/70 6.06 +0.26 +0.11

154783

17 06 40 -30 21 5.96 +0.26

Ayam



$$\begin{array}{r} 5.96 + 0.26 + 0.33 \text{ Layer} \\ 5.94 + 0.31 + 0.1424 \text{ m} \\ \hline 5.96 + 0.345 + 0.19245 \text{ m} \\ \hline 5.95 + 0.33 + 0.175 \end{array}$$

6366 17 06 52 -30 22

$$\begin{array}{r} 5.96 + 0.26 + 0.33 \text{ Cent} \\ \hline 5.94 + 0.31 + 0.16 \end{array}$$

$$\begin{array}{r} 5.92 + 0.305 + 0.155 \text{ '50M} \\ \hline 5.93 + 0.31 + 0.16 \end{array}$$

6314 17 00 29 -53 11 5.4 dF=6

15 April 5.29 + 0.505 = 0.015

~~5400~~ 15 35 a.

153363 14 58 06 - 24 56 58 dE3

✓

24/10/70 4.00 70.436-0045

6409

17

15

03

-32

88

5.84

+0.53

10.45

①

5.54

+0.5

+0.45

5.49

+0.52

+0.07

②

D 2m 200

~~156331 17 16 57 -50 026.475 F1~~

✓

24 Jan 70 6.28 +0.45 -0.04

Wynals

156095 17 14 53 -32 37 5.6 d 1-6

24 June 70 5.44 +0.535 +0.045

✓

6375 17 08 08 -10 30 5:58 AFB

5.45 +0.405 -0.005 15Apr77

65 77

17 87

85

+18

21

4.22 FS

15 April 6.13 +0.545 +0.135

157968 17 25 09 -12 29 6.3 dFS

✓

24 Jun 70 6.23 +0.51 +0.035

16/10/23 17 41 54 -13 30 6.37+35

Very clean
m

6.37 +0.40-0.10 24 June 20
6.34 +40 -6 core

4/8

156471 17 19 02 -10 40 6.44 +0.34

✓

24 Jan 70 6.49 +0.345 -0.015

6.109
6.100

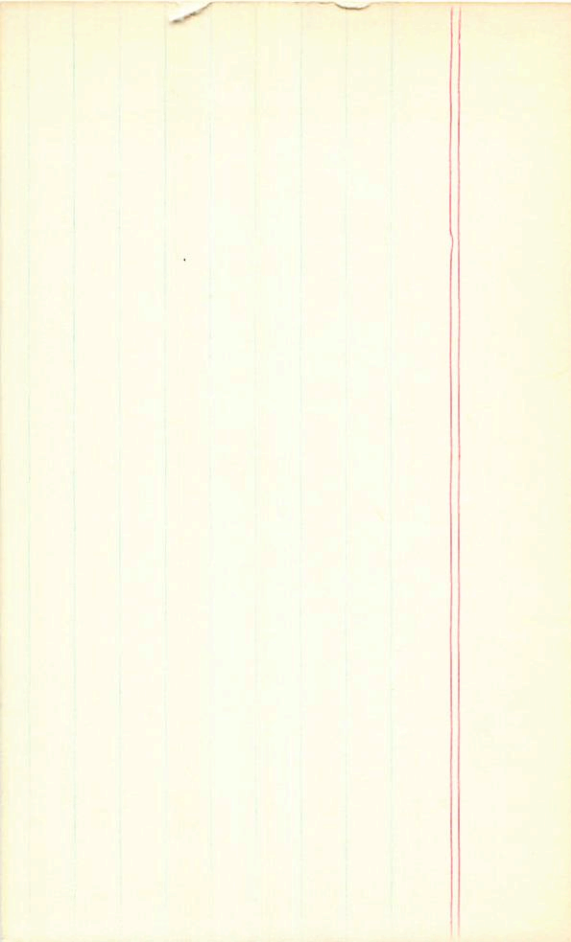
17 43 03

+2 35

6.2-6.4

21"

6.16 +0.105 -0.02
6.55 +0.07 +0.035) 16 May 72



162396 17 50 30 -42 00 6.17 +52

✓

24 June 70 6.23 +0.53 -0.055
Case 6.19 + 54 -0.035
6.21 +535 -045

162517 17 50 43 -35 575 603 +34

✓

24/10/20 6.07 + 0.34 + 0.085
value 6.03 + 34 + 0.5
6.05 34 107

162521 17 53 04 -65 83 636 +45

✓

24 Jun 70 6.41 10.445 10.07

↳ 636 + 45 + 03

638 + 45 + 03

6676

18 52 51 41 08 6.20 F.S

15 Apr 71 6.19 40.42 +009

165499 186720 -62018.48 +58 $\frac{P}{3}$

✓

24 June 70 6.51 +0.605 +0.035

168871 18 21 57

-49 40.5 6.44 + 0.60

✓

6.48 10.59 10.01 24 ^{hrs}
20

6.44 + 60 + 5 ^{cars}

6.46 + 555 + 3

6883 18 21 12 +12 01 555 42

5.96 +0.08 +0.105 17mg 72

170773 18 30 42 -39 566.23 +42

✓
24
20 6.27 10.42 -0.055
6.22 + 42 -0.07
6.25 42 -6

169453

~~18~~

~~23~~

~~14~~

~~1~~

2058
~~6774~~

18 49 02 -22 12 6.30 +0.38

15 April 6.29 +0.405 +0.055
6 July 6.28 ~~+0.395~~ +0.055
6.28 +0.40 +0.055

174369

18

48 50

22

12

6.2A7II

✓

6.33

10.38

10.03

24 June 20

6843

18 15 54

-9 47

6.30 ~~AF~~

AS II

15 Apr 71 6.30 +0.36 +0.29

6 Apr 71 6.26 +0.39 +0.30

6.28 6.375 +0.295

176723 19 01 00 -38 18 6.73 +34

✓

5.77 + 0.33 + 0.06²⁴ ~~60~~

Curve 5.73 + 34 + 2

7172 18 57 42 +13 35 5.24 +53

15 Apr 71 5.27 +0.53 +0.05
4 July 71 5.22 +0.54 +0.055
5.24 +0.535 +0.05

172546 18 39 50 -23 52 6.1 d 120

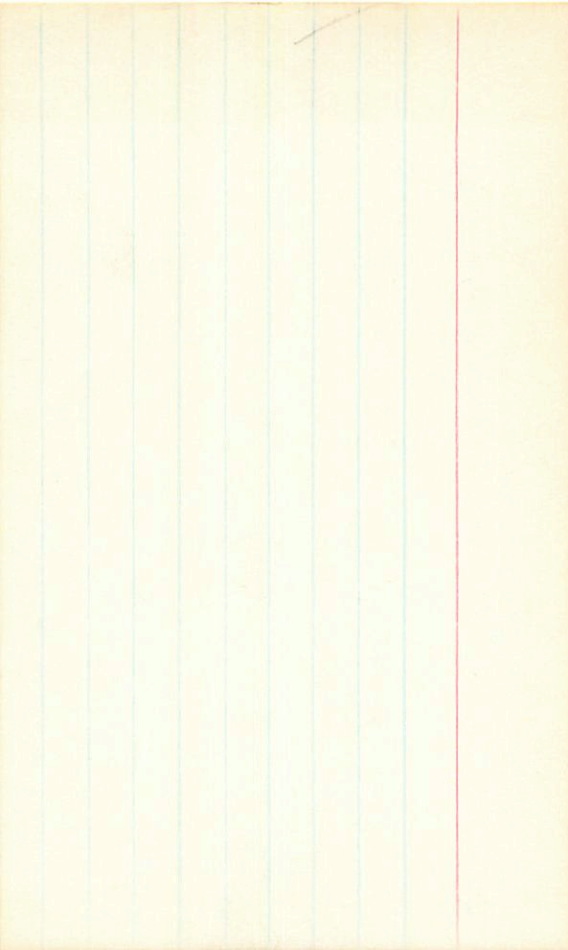
✓

6.26 10.245 10.10 2.4 Jan
90

525 AT

7086 18 47 35 719 18

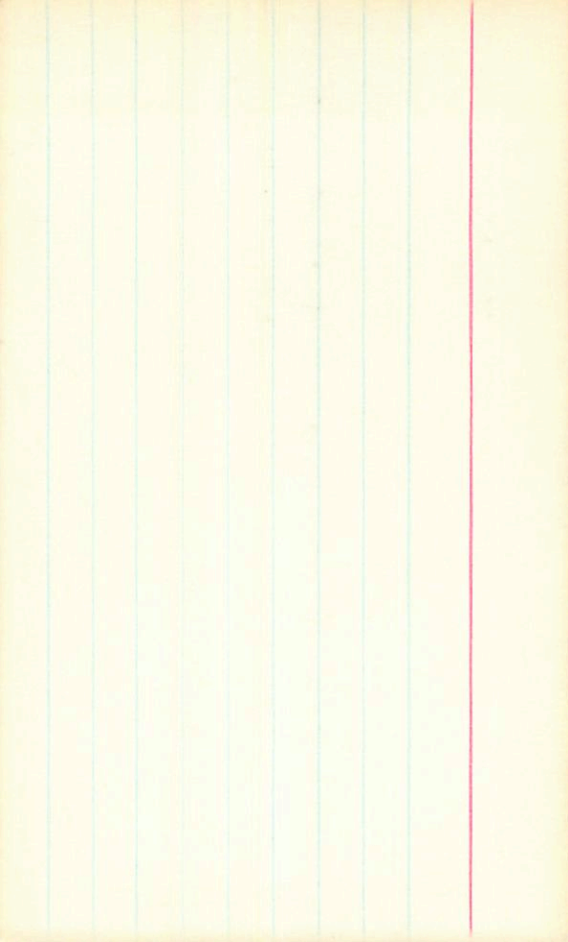
5.88 +0.04 +0.03 17mg72



9399 19 28 18 -32-10 6.6+40

6.60 +0.40 -0.20

6.60 12.00
6.55 10.44 0.00
6.58 10.42 -0.01





7416

19 31 33 -45 19 587 Ap

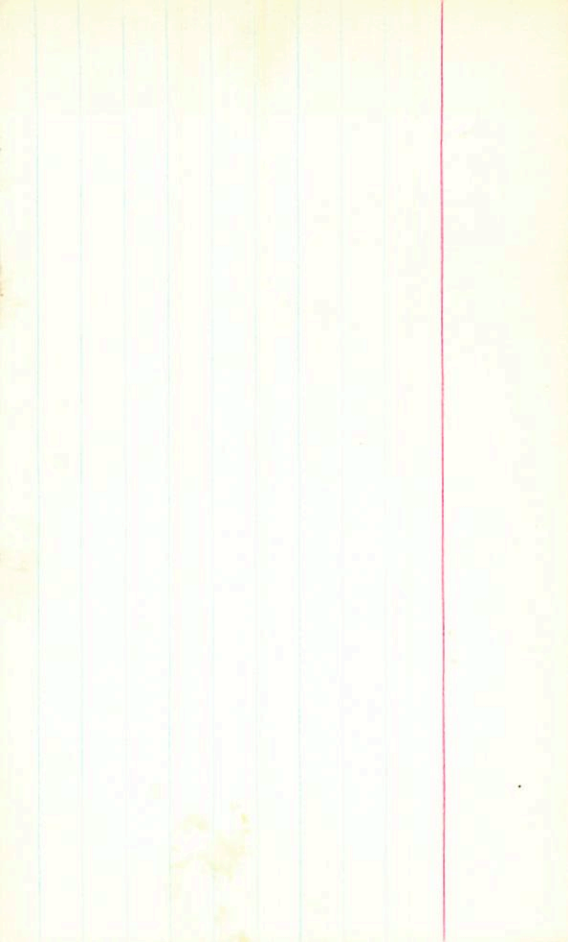
5.63	-696	887	+201
5.59	-710	878	+141

5.61	-703	882	171
------	------	-----	-----

2.310	5 Sept 76
2.331	6 "

-0.17 156 1.107

2.923



175317 18 53 35 -16 26 5.64FS

✓ 24 Jun 70 5.58 +0.435 -0.03

2538

19 47 18

-28

52

6.0 + 41

$$\begin{array}{r} 15/11/71 \\ 6/1/71 \\ \hline 6.05 + 0.415 = 0.05 \\ 6.03 + 0.41 = 0.18 \\ \hline 6.04 + 0.41 \end{array}$$

7553

15 49 07

-10 50

5.5 $\sqrt{0.12}$

15 Apr 71

5.39

+0.395

-0.045

6 Apr 71

5.37

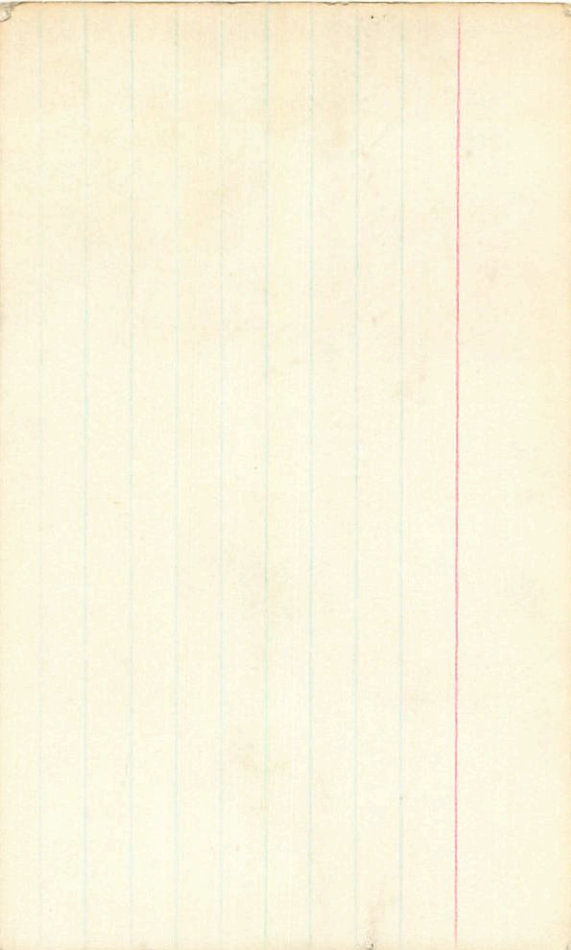
+0.388

-0.045

$\frac{5.38}{5.38}$

+0.385

-0.045



2291

19

13

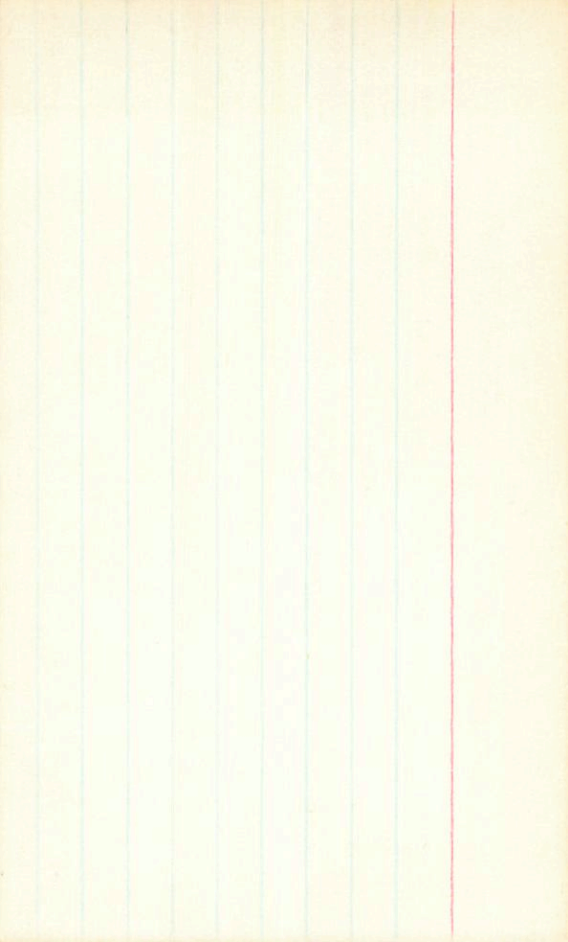
44

-24

14

6.220 LF9

$$\begin{array}{r} 15 \text{ Apr } 71 \quad 6.27 \quad +0.55 \quad +0.07 \\ 6 \text{ Apr } 71 \quad 6.23 \quad +0.565 \quad +0.055 \\ \hline 6.25 \quad 6.25 \quad +0.56 \quad +0.05 \end{array}$$

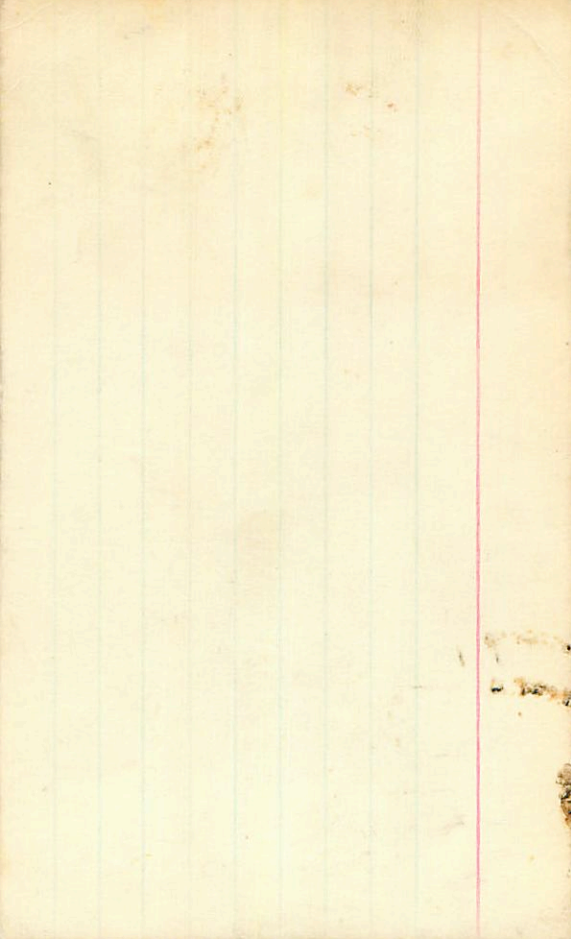


7793 · 20 21 28

+14 27

6.13 F5

1897 00.0 14.04 21.7



7437

20 44 26 -21 08 5.89 A0

5.89 10.08 10.10 17mg72

745-4 19 35 52 -14 22 5.6 d f = 6

15 April 5.47 40.525 0.00
6 July 5.49 40.505 + 0.015
5.46 40.515 40.01

1407-475 ✓ 501-501 18 CS-500 31

BPM 38165 432-012-410-10

100-501-

9273 104
596- 104
3743 2598- 024

Rayburn Str

10.8.45

45 Oct 02 51

81

4572 nct

(K)



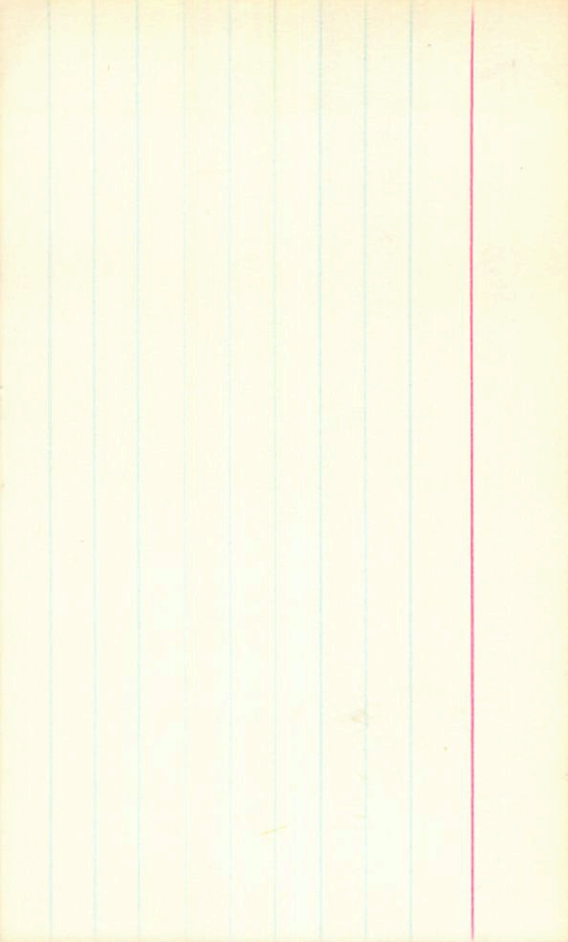
7671

20 03 24

-11 41

6.4.9.94

6.4.2 +0.55 +0.30 6.9.71



Neugebauer, G. and Lighton, R. 1969

R.A. : 4.350
DEC. : 17.400
R.A. : 131.200
DEC. : -29.100
DISTANCE : 3.000
MODULUS : 40
VEL. : 39.400

f1 (U) : 0.305
f2 (U) : 0.216
f3 (U) : 0.928
dU : 150.936
U : 42.560

q1 (V) : -0.636
q2 (V) : 0.771
q3 (V) : 0.029
dV : -483.792
V : -18.108

q1 (W) : 0.709
q2 (W) : 0.599
q3 (W) : -0.372
dW : 338.158
W : -1.204

B23

F 200 +17 24

5284
8487

5604
-2056

B12

241

20

294