

545

80 08 25 -02 43

7.29M2

+1.

6.89

+1.59 +1.99 23cent 69

5.76

+0.805 19mm<sup>69</sup>

6.87

+1.58 +1.97 3mm

5.85

+0.805 30cent<sup>69</sup>

6.86

+1.585 +1.98

5.81

+0.81 7mm<sup>69</sup>

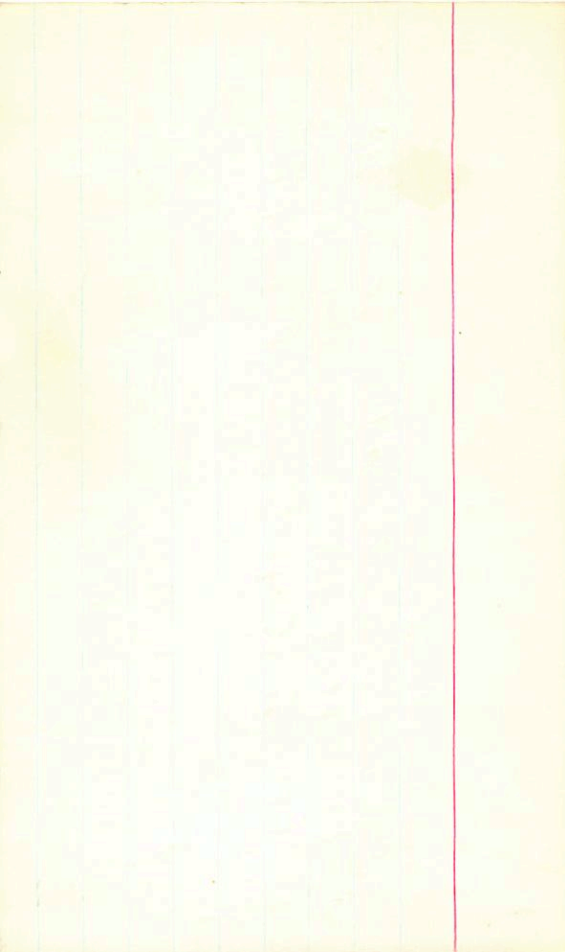
5.81

+0.805

6.86 +1.61 +2.00 21mm

+1.59 +1.99

$\rho = +1.8.0$  9M2



17 Nov Van

12204 / 58 05 -14 01 7.1 gms

6.28

+1.64 +1.84 20 Oct 69

5.70 +1.08 3 Oct 69

6.74

+1.63 +1.89 23 Oct 69

5.54 +1.10 8 Nov 69

6.87

+1.63 +1.81 6 Nov 69

5.54 +1.05 20 Nov

6.79

+1.60 +1.82 19 Nov

5.52 +1.06 5 Dec

6.83

+1.61 +1.84 21 Nov

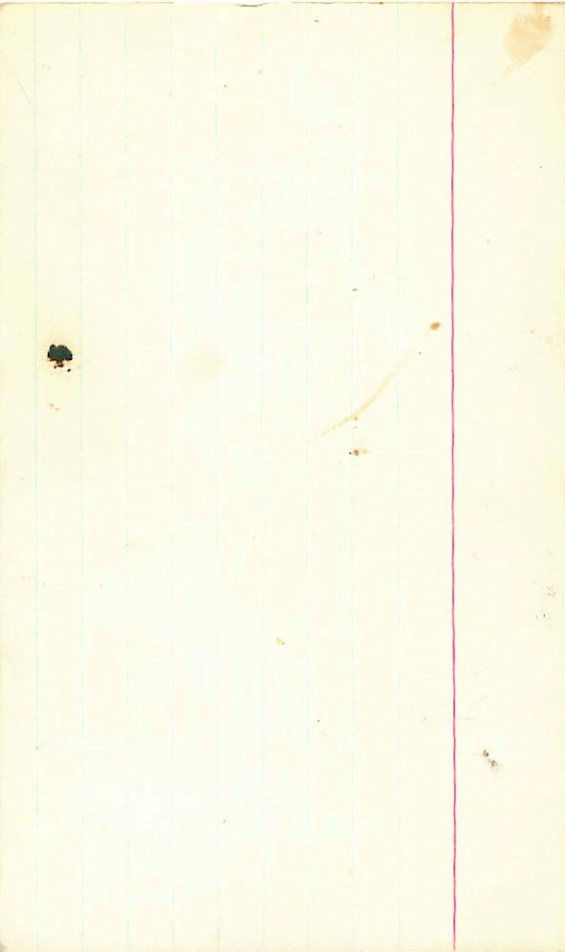
6.74

+1.62 +1.85 14 Dec

6.77

+1.62 +1.80 15 Dec

$\rho = +2.9$



17 Nov

220 876 23 25 50 -13 06 25 gm3

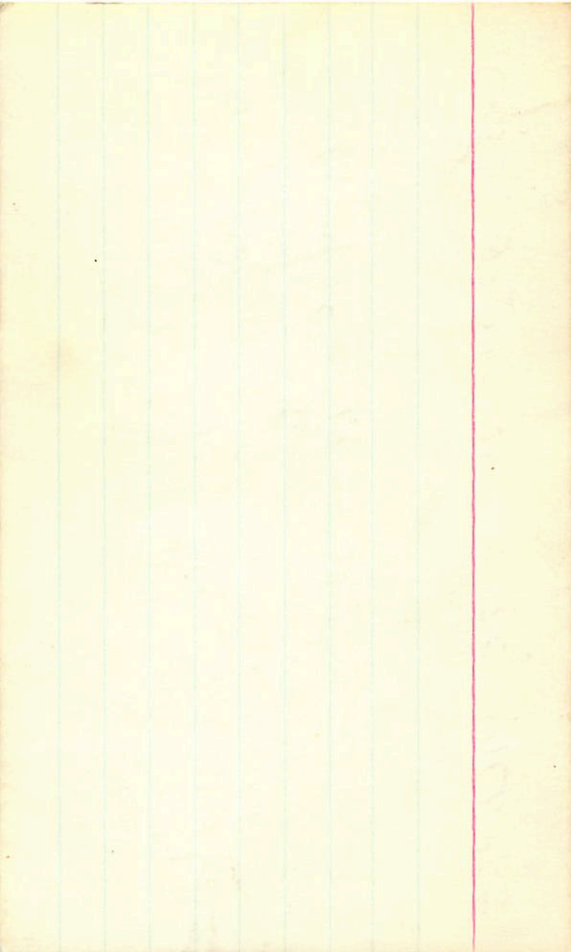
7.20 +1.61 +2.00 3 dm

7.26 +1.63 +1.94 (9)

—	—	6.09	+0.94	23 Aug 69
7.32 +1.65	+1.88	6.09	+0.905	24 Aug 69
		5.98	+0.88	25 Aug 69
7.26 +1.64	+1.84	6.15	+0.915	18 Aug 69
7.20 +1.65	+1.90	6.15	+0.94	22 "
7.27 +1.63	+1.98	6.11	+0.92	19 Nov 69
7.23 +1.63	+1.98	<u>6.11</u>	<u>+0.92</u>	
7.22 +1.63	+2.00	6.08	+0.92	
7.26 +1.63	+1.98			

7.26 +1.63 +1.93 6 Nov 69  
 7.26 +1.60 +1.97 17 Nov 69

φ = - 8.5 dm



(2)

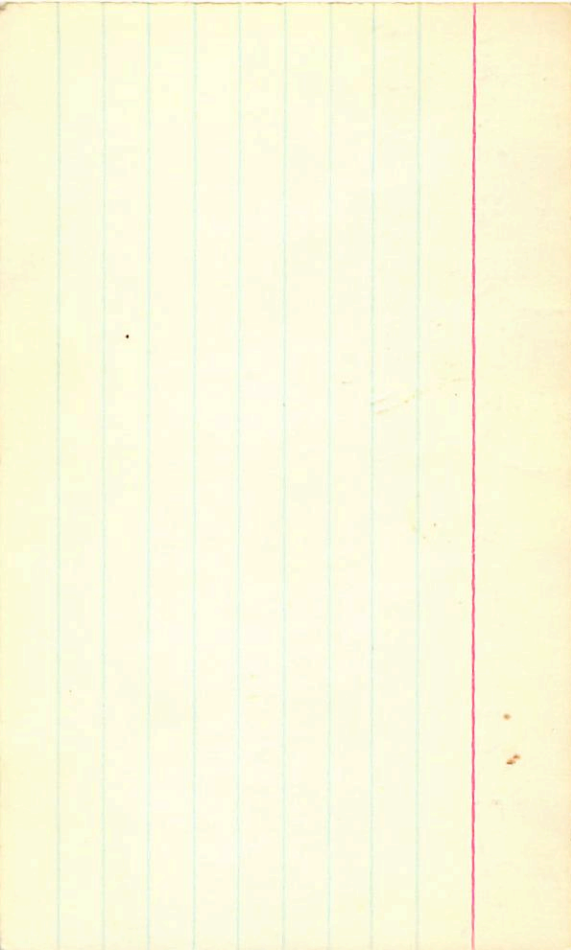
223963 23 52 28 - 9 28 249m1

190

6.11	+0.755	30 June 69
6.11	+0.785	26 July 69
6.13	+0.775	24 July 69
6.12	+0.765	

7.21	+1.61	+1.93	2 July 69
7.16	+1.59	+1.88	17 July 69
7.15	+1.58	+1.94	23 "
7.17	+1.59	+1.92	

$\rho = -34 \text{ gml}$





Nov 17 Evansville 3 Nov 07

216789 22 54 26.

-14 50

9.3 217

Nov

out

21

9.15

+1.52 +1.53 2 Oct 09

7.58

+1.35 2 Oct 09

9.02

+1.52 +1.53 23 "

7.62

+1.375 4 Nov 09

9.21

+1.48 +1.42 3 Nov

7.64

+1.39 7 Nov

9.29

+1.51 +1.38 6 Nov 09

7.64

+1.40 8 Nov

9.27

+1.51 +1.45 17 Nov 09

7.60

+1.38 19 Nov

9.26

+1.51 +1.50 21 Nov

7.54

+1.35 25 Dec

9.24

+1.51 +1.52 3 Dec

9.14

+1.48 +1.52 15 Dec

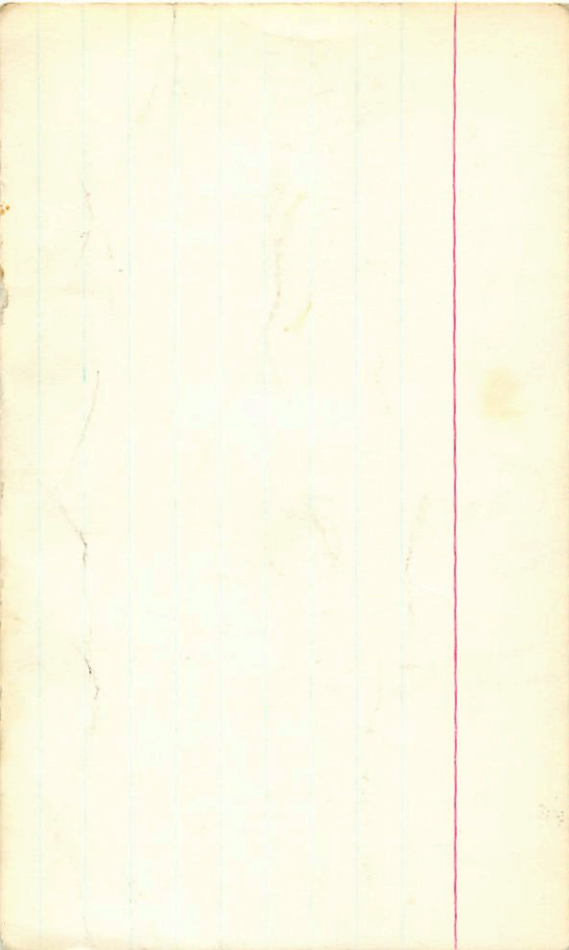
9.26

+1.54 - 27 Dec

(B)

J

So



45 days / Again

217005 22 55

8.64 +1.54 478  
+1.20 308

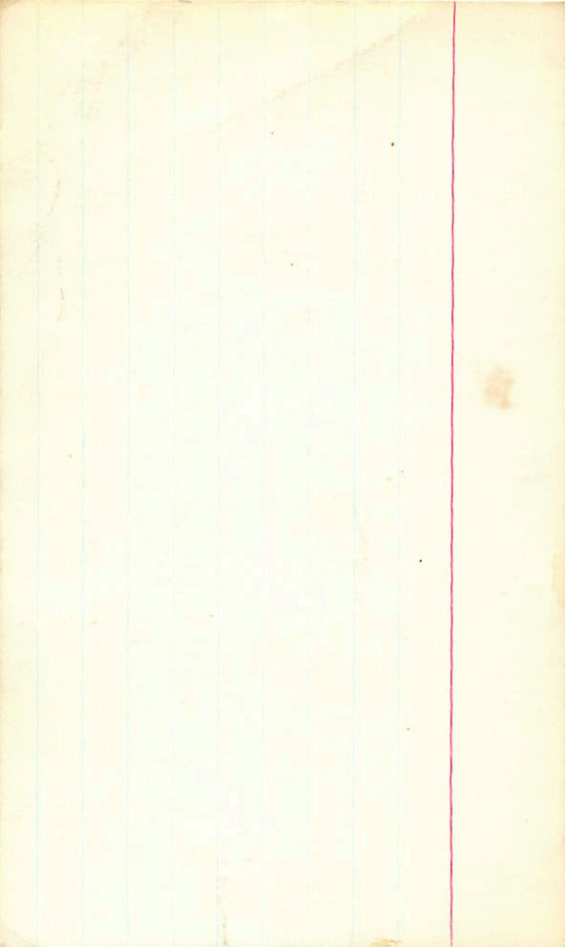
(B)

8.80 +1.49 +1.23 20 Nov 69  
 8.76 +1.50 +1.27 23 " "  
 8.68 +1.53 +1.20 17 Nov 69  
 8.61 +1.52 +1.31 21 Nov  
 8.56 +1.52 +1.33 3 Dec  
~~8.48 +1.40 +1.24 15 Dec~~  
 8.95 +1.49 +1.17 16 Dec  
 8.80 +1.51 +1.18 27 Dec

4 Nov

52 -26 20 8.5 MB

6.84 +1.49 30 Oct 69  
 6.81 +1.50 4 Nov 69  
 6.83 +1.515 7 Nov "  
 6.78 +1.515 8 Nov  
 6.78 +1.50 19 Nov  
 6.75 +1.475 Dec  
 (6.84 +1.555) 19 Dec  
 6.88 +1.525 25 Dec  
 6.77 +1.47 3 Jan 70



2017 Nov 24 days? **(21)** 1200V **(20)** **(2)**  
 217362 22 58 58 -41 41 9.7 m6

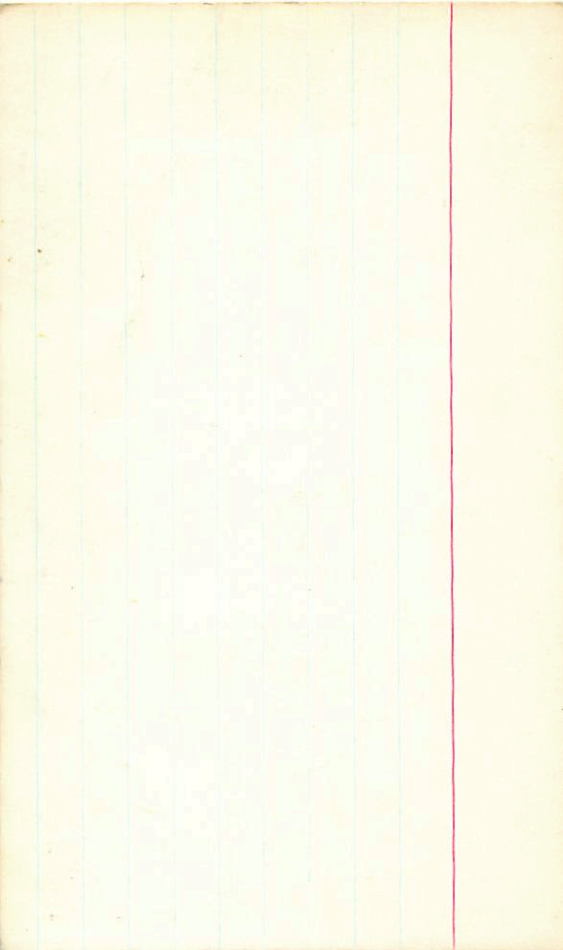
9.76 +1.49 +1.38 15 Dec  
 9.80 +1.48 +1.38 14 Dec  
 9.84 +1.49 +1.38 37 Dec  
 9.67 +1.49 +1.45 2 Dec 69

9.79 +1.48 - 23 Oct  
 9.84 +1.46 +1.38 3 Nov 69  
 9.85 +1.49 +1.36 6 Nov  
 9.75 +1.49 +1.36 17 Nov 69

9.73 +1.49 +1.42 21 Nov  
 9.89 +1.47 +1.39 3 Dec  
 9.90 +1.46 +1.36 4 Dec

8.34 +1.35 25 Dec  
 8.15 +1.31 3 Jan  
 8.13 +1.32 2 Dec 69  
 8.26 +1.39 4 Nov  
 8.31 +1.38 7 "  
 8.25 +1.38 8 Nov  
 8.11 +1.39 19 Nov  
 8.30 +1.315 20.

ok 8.30 +1.375 5 Dec  
 8.30 +1.34 7 Dec  
 1-8.12 +1.38 19 Dec



Agave  
2/18/74  
7.74 +1.55 +1.62 27 Dec

For. Snow  
23 03 44

Em -22

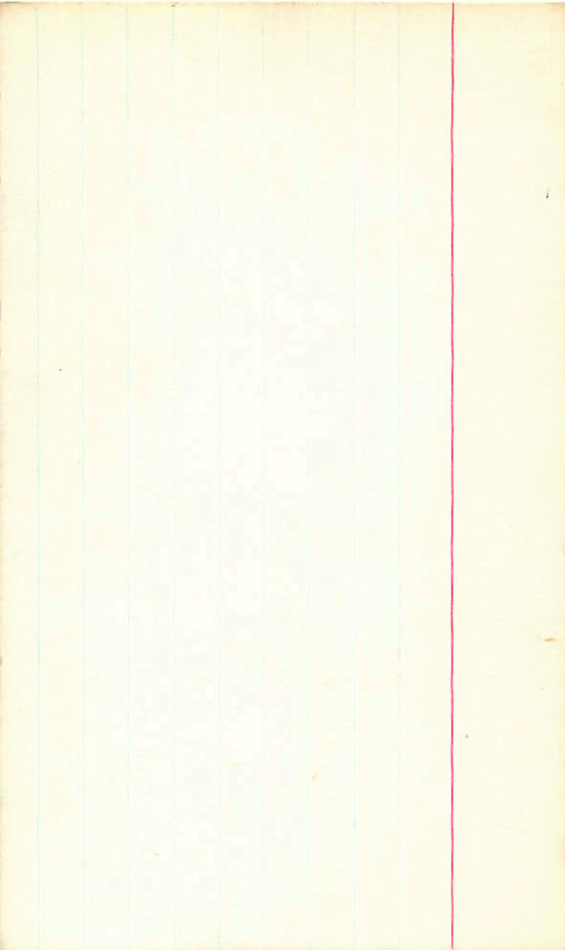
4 Nov 40 7.72 117

See page for M

7.14 +1.64 +1.84 2 Oct 69  
7.56 +1.57 +1.69 23 " "  
7.58 +1.56 +1.66 3 Nov 69  
7.51 +1.58 +1.74 17 Nov 69  
7.49 +1.56 +1.76 21 Nov 69  
7.56 +1.57 +1.74 23 Nov  
7.70 +1.57 +1.69 3 Dec  
7.81 +1.55 +1.61 15 Dec

D

5.85 +1.07 3 Oct 69  
6.21 +1.16 4 Nov 69  
6.20 +1.165 7 Nov  
6.16 +1.18 8 Nov  
6.16 +1.16 19 "  
6.32 +1.225 3 Dec  
6.38 +1.215 7 Dec  
6.33 +1.22 25 Dec





218348

Val 2 nov

1 nov 30 days (2)

23 05 53

-25 46 9.0 m/s

9.05 +1.53 +1.42 15 Dec 69

9.04 +1.52 +1.39 16 "

8.96 +1.53 +1.41 27 Dec

8.79 +1.57 +1.52 2 Oct 69

8.44 +1.53 +1.46 23 "

8.44 +1.50 +1.41 30 Nov 69

8.44 +1.53 +1.39 6 Nov

9.15 +1.53 +1.38 17 Nov 69

9.00 +1.53 +1.42 21 Nov

✓ 8.99 +1.51 +1.48 28 Nov

8.78 +1.55 +1.55 3 Dec 69

7.09 +1.41 30 Dec 69

7.27 +1.40 4 Nov 69

7.32 +1.44 5 7 Nov

7.27 +1.46 5 8 Nov

7.30 +1.45 19 Nov

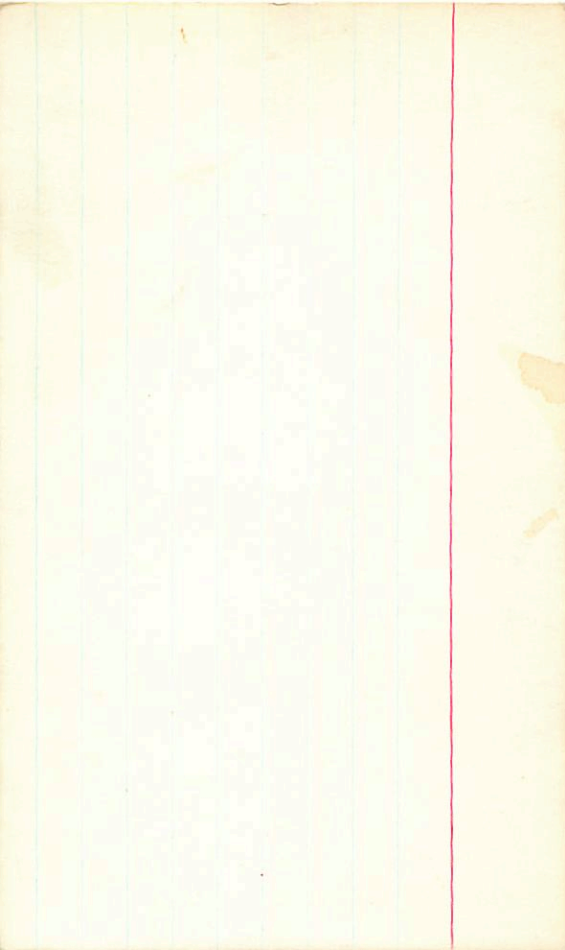
7.30 +1.43 20

7.16 +1.37 3 Dec

7.21 +1.37 2 Dec

(7.19 +1.43 5 19 Dec)  
+1.38 39 Jan 70

2.13



Do

(BC)

1 MW

(A)

218414

23 04 33

-35

48 9.7 MW

(B)

9.20

+1.56 +1.60

2 Oct 69

7.70

+1.275 3 Oct 69

9.20

+1.53 +1.52

23 " "

7.83

+1.2105 4 Nov 69

9.29

+1.56 +1.45

6 Nov 69

7.80

+1.275 7 Nov 69

9.22

+1.56 +1.53

17 Nov 69

7.80

+1.285 8 Nov

9.15

+1.57 +1.67

21 Nov

7.74

+1.24 19

√ 9.20

+1.56 +1.61

3 Dec

7.75

+1.23 20

9.20

+1.56 +1.59

15 Dec

7.75

+1.25 21 Dec

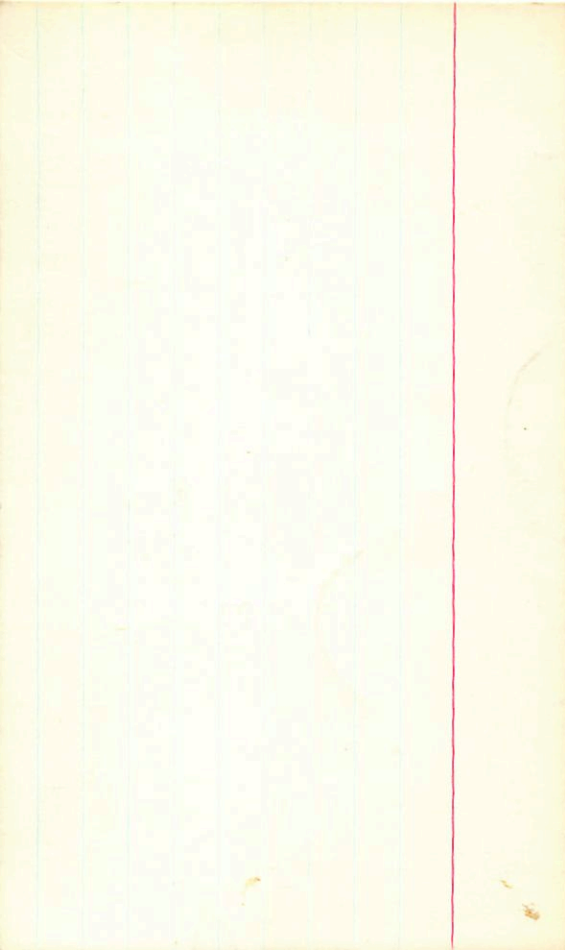
9.37

+1.55 +1.52

27 Dec

7.85

+1.265 25 "



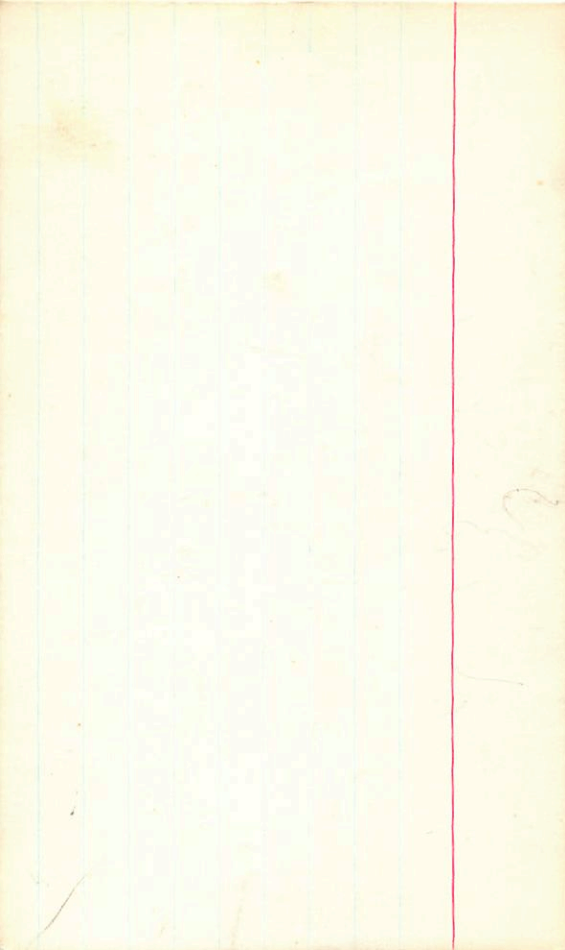
Yselers Van 2 Nov 8.7-10.4 (2)

218541 23 07 29 -38 18 ~~9-11-69~~

8.28	+1.70	+1.16	20 Nov 69	5.66	+1.77	30 Oct 69
7.91	+1.71	+1.42	23 "	5.40	+1.67	4 Nov 69
7.70	+1.73	+1.34	3 Nov	5.35	+1.68	7 Nov 69
7.65	+1.75	+1.43	6 Nov	5.30	+1.67	19 Nov
7.67	+1.72	+1.46	17 Nov	5.47	+1.70	3 Dec
7.65	+1.75	+1.49	21 Nov	5.51	+1.76	19 Dec
7.45	+1.71	+1.39	3 Dec	5.50	+1.74	25 "
8.09	+1.69	+1.26	15 Dec	5.53	+1.745	8 Jan 70
8.06	+1.69	+1.25	27 Dec			

(P)

✓



2 nov 19 4 nov

117 @

220242 23 2/11 -10 59 10.3-12.0

25V Agv

10.24	+1.49	+0.61	3 nov 69	7.28	+1.89	4 nov 69
10.28	+1.50	+0.60	6 nov 69	7.32	+1.92	7 nov 69
(11.06	+1.46	+0.58	17 nov 69)	7.16	+1.53	8 nov 69
10.23	+1.45	+0.75	23 nov	7.14	+1.92	19 nov
9.91	+1.46	+0.64	3 dec	6.90	+1.88	3 dec
9.90	+1.47	+0.64	4 dec	6.72	+1.87	5 dec
9.58	+1.49	+0.68	15 dec	6.64	+1.95	25 "
9.44	+1.49	+0.75	27 dec	6.63	+1.84	3 Jan 70

3 nov  
220979 23 26 50

4 nov  
-31 35 9.3118

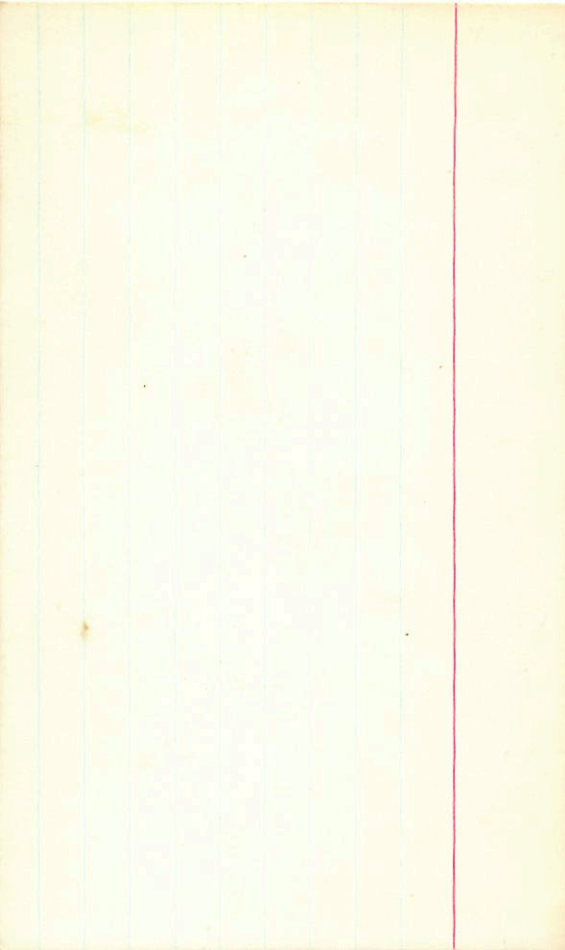
(V)

(2)

9.40 +1.60 +1.80 20 Oct 69  
9.28 +1.58 +1.80 23 " "  
9.44 +1.86 +1.80 3 nov  
9.47 +1.57 +1.78 6 nov  
9.38 +1.58 +1.80 17 nov 69  
9.33 +1.59 +1.90 21 nov  
✓ 9.35 +1.575 +1.89 23 nov  
9.34 +1.58 +1.81 3 Dec

8.18 +1.095 3 Oct 69  
8.29 +1.095 7 nov  
8.15 +1.11 8 nov 69  
8.16 +1.05 19 nov  
8.14 +1.03 20





VPLU = AV60

221433 = VPLU 23 30 50 -76 09

② N. ⓧ

9.13 +1.25 +0.62 2170069

8.92 +1.26 +0.65 20000

9.28 +1.37 +0.62 185000

9.83 +1.41 +0.48 27000

6.35 +1.51 197000<sup>69</sup>

7.40 +1.35 55000

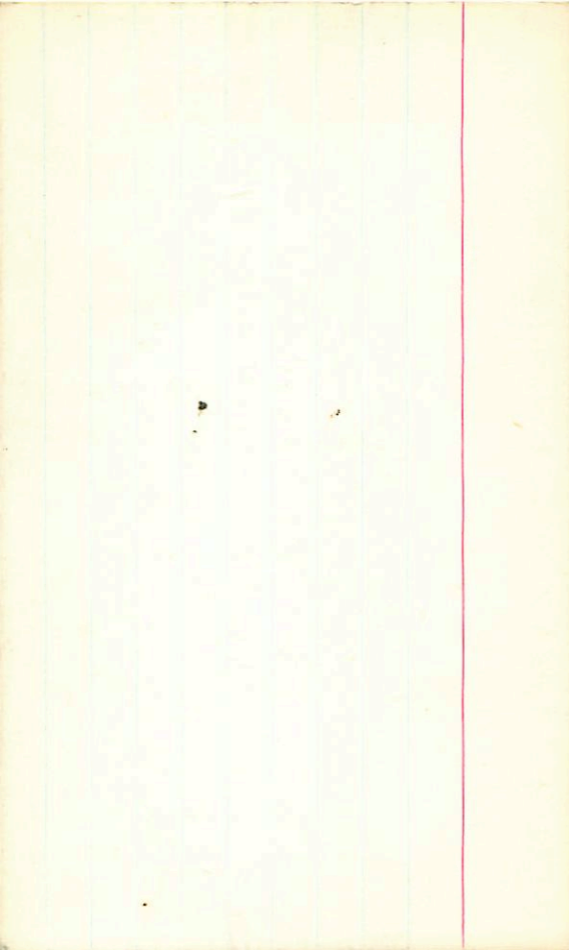
7.44 +1.34 20000

7.54 +1.45 5 19000

7.84 +1.55 2500

7.84 +1.62 5300

✓



3 nov ~~Vas~~ Very rapid 90<sup>th</sup> ~~Grey night~~ ① ②  
 22/621 23 32 18 - 45 - 14 9.7 MC

9.27 +1.48 +1.0 30dec

9.16	+1.51	+1.69	2lect 69	7.26	+1.575	2oct 64
9.54	+1.47	+0.94	23:11	6.97	+1.605	7nov 64
9.26	+1.36	+0.94	3 nov	6.90	+1.445	8nov
9.13	+1.47	+1.08	6 nov	6.87	+1.55	19"
8.88	+1.52	+1.20	17 nov	6.89	+1.545	20"
8.83	+1.52	+1.20	21 nov	6.93	+1.56	5dec
8.95	+1.50	+1.18	3dec	6.99	+1.64	14dec
9.23	+1.48	+1.14	15dec	7.13	+1.63	25"
9.24	+1.49	+1.10	16dec	6.98	+1.645	3Jan 70

200- 3027

Van

3 Nov

222096 23 36 16

245

46

8.1 Mt

②

8.04 +1.45

+1.42

2 Oct 69

6.71

+1.265 3 Oct 69

7.78

+1.48

23 Oct 69

6.39

+1.29 7 Nov

7.79

+1.45

3 Nov 69

6.28

+1.28 8 Nov

7.76

+1.42

17 Nov 69

4.39

+1.25 19"

7.76

+1.50

21 Nov 69

6.41

+1.285 20'

7.99

+1.47

3 Dec

6.55

+1.31 5 Dec

7.81

+1.46

15 Dec

6.53

+1.25 7 Dec

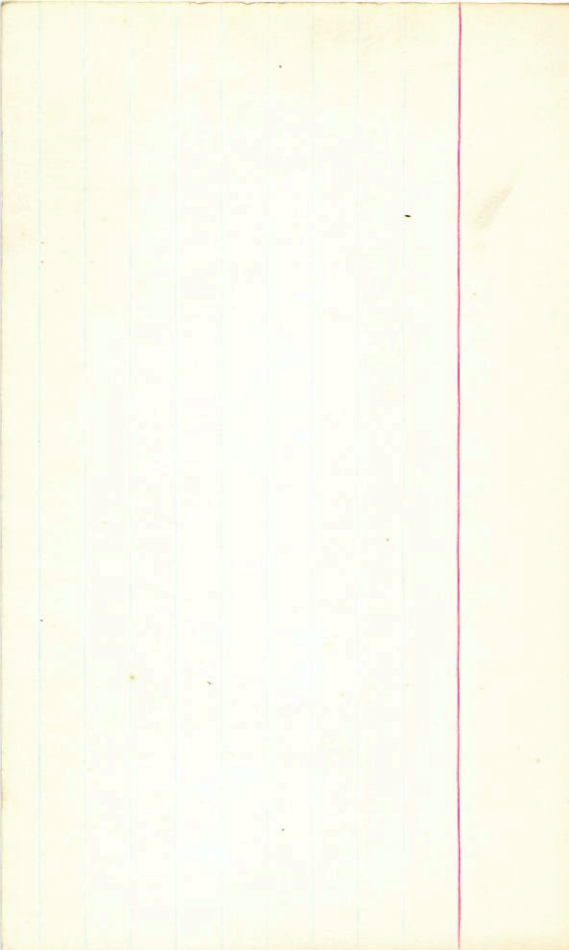
7.96

+1.47

22 Dec

6.23

+1.275 19 Dec



5 Nov

222159

23 36 45

-23 74

10.3 mg

3 Nov 69 9.64

+1.46 +1.22

6 Nov 69 9.64

+1.45 +1.22

17 Nov 69 9.60

+1.45 +1.25

21 Nov 9.56

+1.48 +1.24

3 Dec 9.59

+1.48 +1.26

15 Dec 9.82

+1.47 +1.14

16 Dec " 9.85

+1.45 +1.17

27 Dec 9.88

+1.47 +1.12

⊗

7.81 +1.535 7 Nov 69

7.71 +1.54 8 Nov

7.71 +1.51 19 Nov

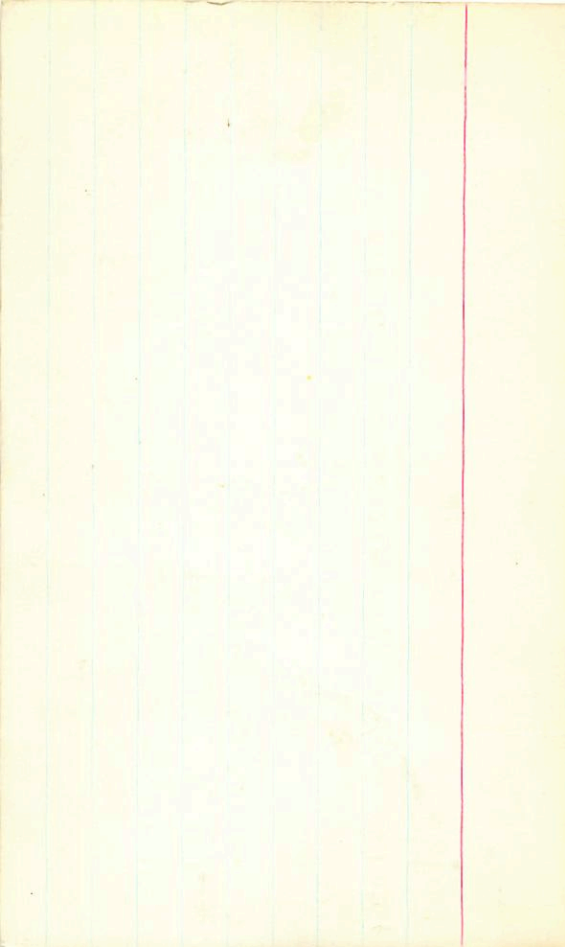
7.78 +1.51 8 Dec

7.85 +1.55 15 Dec

7.88 +1.545 25 "

7.82 +1.545 3 Jan 70

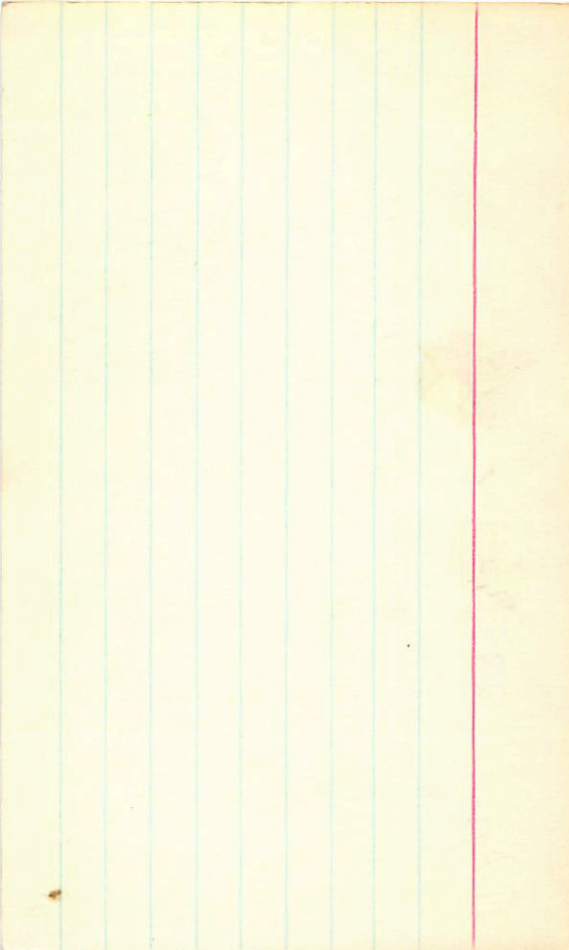




7.88 +1.39 -0.16 3 Nov 69 529  
 7.97 +1.41 -0.18 6 " " 522

PPA 23 42 17 -15 27 6.8-11.5 380

8.33	+1.30	-0.32	17 Nov 69	543	4.96	546	+2.045	20 Nov
8.47	+1.34	-0.31	21 Nov	547	5.26	561	+2.08	5 Dec
8.56	+1.28	-0.30	23 Nov	549	5.56	575	+2.13	19 Dec 69
9.68	+1.48	+0.12	2 July 69	405	7.6	420	+2.065	24 July 69
9.07	+1.51	-0.10	17 " "	420	5.11	426	+2.02	26 July 69
8.65	+1.49	+0.32	28 " "	426	4.28	445	+1.78	18 Aug 69
8.96	+1.495	+0.68	11 Aug 69	445	4.18	447	+1.745	22 " "
6.82	+1.46	+0.70	13 Aug 69	447	4.03	451	+1.80	18 Sept 69
6.62	+1.46	+0.70	17 " "	451	4.15	453	+1.79	20 " "
6.58	+1.45	+0.69	19 " "	453	4.29	494	+1.83	3 Oct 69
6.58	+1.48	+0.47	12 Sept 69	477	4.89	492	+2.02	4 Nov 572
6.83	+1.46	+0.23	29 " "	494	4.75	497	+2.02	8 Nov
6.88	+1.48	+0.21	2 Oct 69	497	4.93	516	+2.05	19 Nov
7.41	+1.44	0.00	23 " "	516	4.93	518		



OP Agr (Cont)

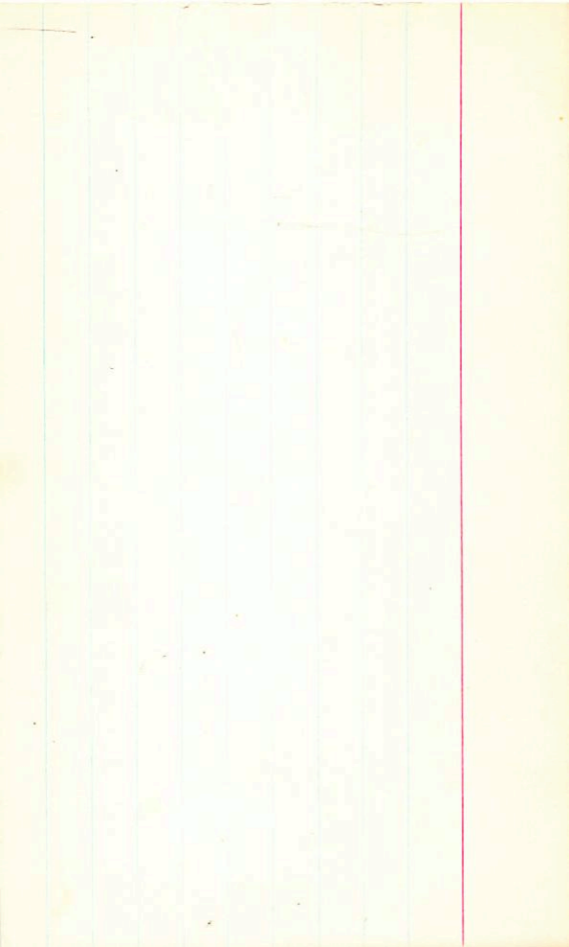
8.83 +1.25 -0.44 3 Dec<sup>69</sup>  
9.15 +1.09 -0.45 15 Dec  
9.37 +1.99 -0.63 30 Dec

559

571

5.51 +2.11 25 Dec

5.58 +2.115 3 Jan<sup>70</sup>



①

slow

223783 23 5106 -16 32 7.7 Ma

7.65	+1.64	+1.88	20 Oct 69	0	0	4x
7.65	+1.64	+1.88	29 Sept 69	3	0	
7.55	+1.65	+1.92	13 Aug 69	3	4	14
7.55	+1.64	+1.90	11 Aug 69	1	2	14
7.55	+1.65	+1.94	12 Sept 69	3	4	9
<del>7.55</del>	<del>+1.64</del>	<del>+1.91</del>	<del>23 Oct 69</del>			

6.28 +1.125 18 Aug 69  
 6.39 +1.145 22"  
6.33 +1.135

7.55-7.65 +1.645 +1.88 20  
 25 1.85 34  
 25 2.5 36  
 25 4 16  
 25 4 14  
 25 4 16

← 0030 - 020

← 3 - 2

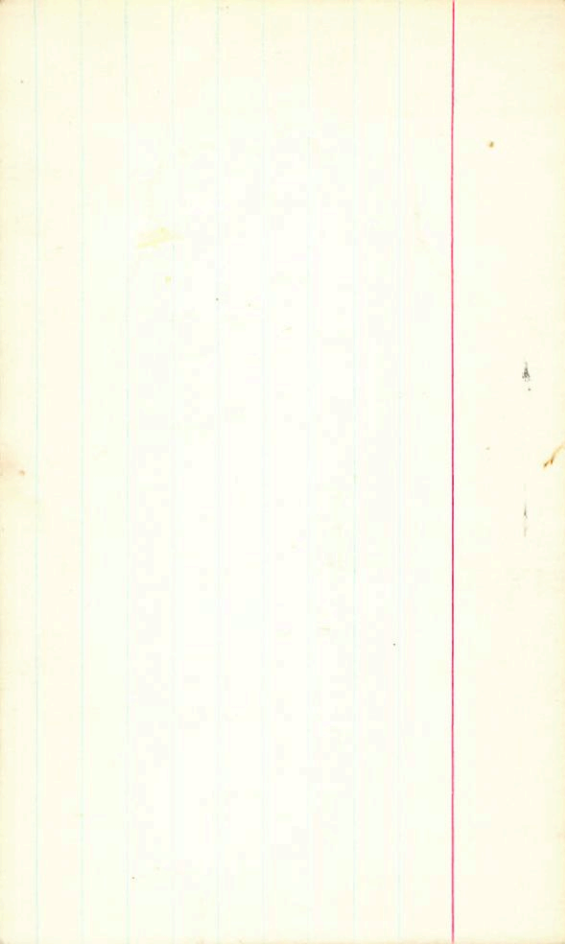
← 0027 - 022

224075 23 53 24 -18 55 9.4 Ma

9.51 ~~11.08~~ +1.03 13 Aug 69  
9.54 +1.075 +1.07 11 " "  
9.50 +1.09 +1.00 12 Sept  
9.52 +1.08 +1.03

9.10 +0.355 / 8 Aug 69  
9.15 +0.355 22.10  
9.12 +0.355





HV ①

225 ✓  
224225  
23 54 26 -22 10 7.45 gm3

+1.

7.30 +1.60 +1.93 29 Sept 69  
7.24 +1.67 +1.95 2 July 69  
7.27 +1.64 +1.94

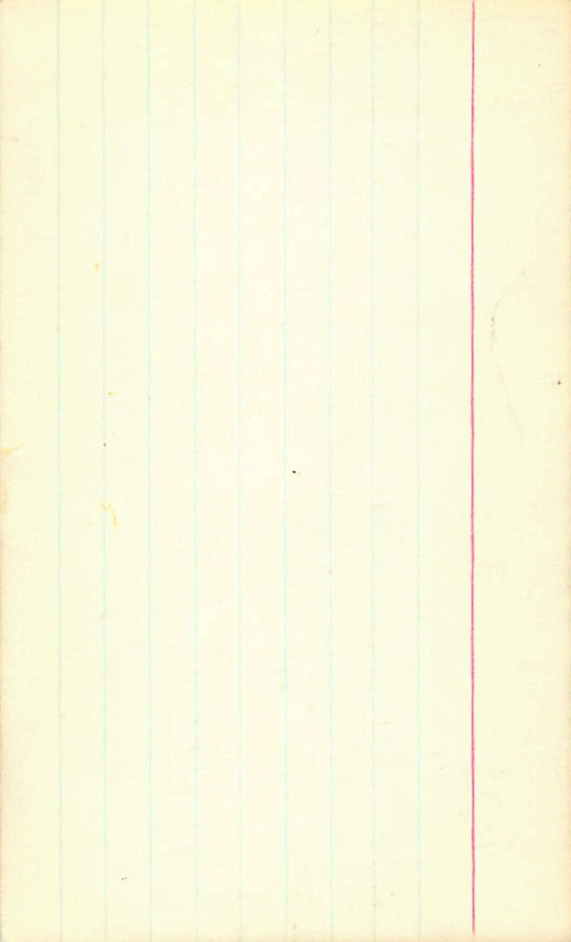
6.25  
6.28  
6.26

+0.845 1 Aug 69  
+0.805 24 July 69  
+0.825

9.30 +1.62 +1.97 21 Nov 69

9.30 +1.63 +1.95 ③

p = -4.9 gm3



V cut AAVSO 3 Nov  
22.4442 23 56 22 -09 07.5 260 d

8.6-14.6

2-15/16

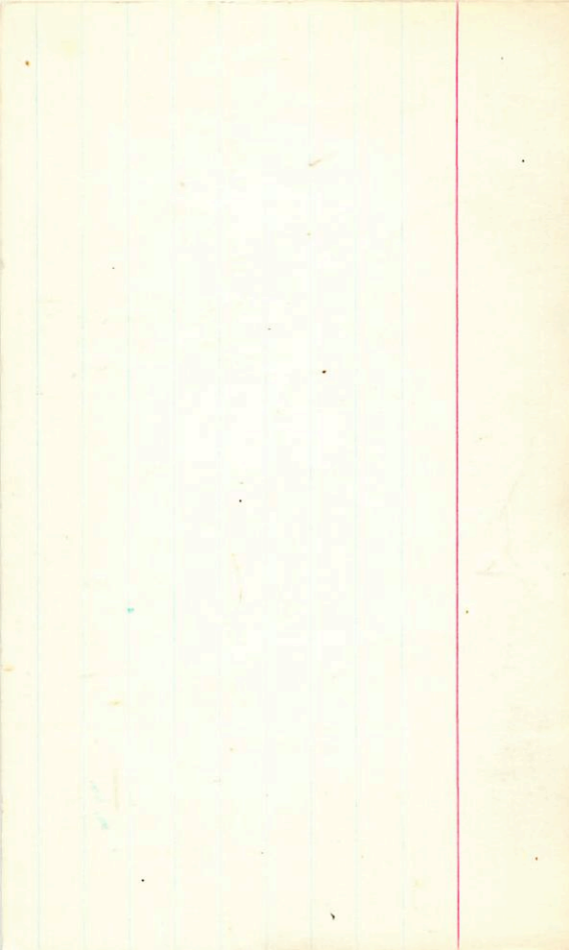
(2)

(3) 13.58 +1.50 40.45 3 Nov 69  
13.46 +1.53 40.59 6 Nov  
12.24 +1.33 40.62 3 Dec  
11.32 +1.37 40.72 15 Dec  
10.16 +1.34 40.83 27 Dec

(4)

10.01 +2.015 7 Jan 69  
9.42 +2.005 8 Nov  
9.66 +1.94 20  
9.31 +1.82 5 Dec  
8.81 +1.64 14 Dec  
8.49 +1.48 25  
7.93 +1.24 3 Jan 70

7.74	#1.52	+1.08	21 Nov	547	561	6.15	+1.525	5 Dec
7.79	+1.59	+1.28	23 Nov	549	575	6.04	+1.52	19 Dec
7.92	+1.55	+1.06	3 Dec	559	6.19	8.22	25 "	
Splc	23	5-7	3	5-6	45	5	8.2	10.6
8.07	+1.53	+1.02	15 Dec	571	5.81	+1.585	3 Jan 10	
7.97	+1.52	+1.04	27 Nov		M52 141 d	5.68	+1.505	24 Aug 69
7.99	+1.50	+1.04	30 Dec					
7.64	+1.52	+1.08	23 Aug 69	426	429	5.62	+1.55	26 Aug 69
7.56	+1.60	+1.19	11 Aug 69	445	445	5.87	+1.45	18 Aug 69
7.76	+1.64	+1.22	17 Aug 69	441	452			
7.63	+1.63	+1.22	19 " "	453	454	5.92	+1.47	22 "
7.79	+1.59	+1.24	12 Sep 69	477	483	5.86	+1.46	18 Sept
7.30	+1.48	(+1.44)	29 " "	494	485	5.72	+1.45	20 "
7.15	+1.53	+1.19	2 Oct 69	496	498	5.53	+1.35	3 Oct
6.93	+1.64	+1.23	23 " "	518	484	5.56	+1.435	8 Nov
7.15	+1.56	+1.16	3 Nov 69	529	515	5.84	+1.49	19 Nov
7.68	+1.52	+1.01	17 Nov 69	573	549	5.90	+1.48	20 Nov



Wet 00 00 26 -14 51.5 7.1-146 57

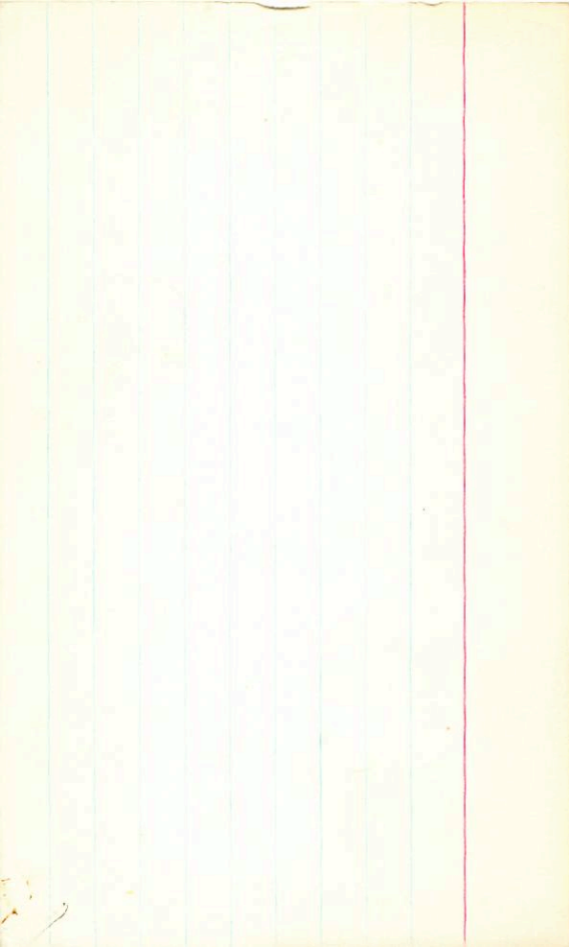
9 Sept 64 12.73 +1.67 -0.20

8.58 +2.14 18 Sept 64

8.63 +2.13 20"

9.00 +2.12 30 Sept 64

9.36 +2.16 5 8 Nov 64



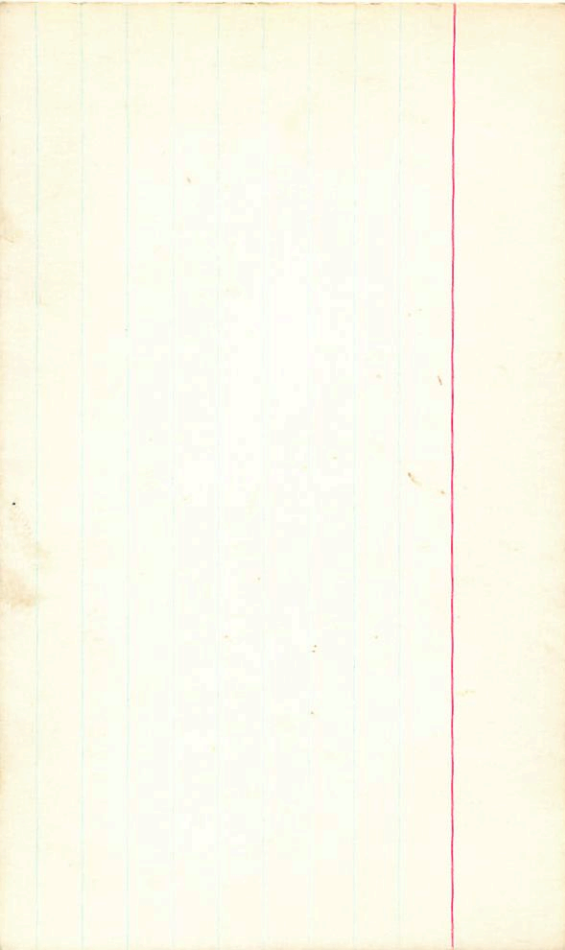


45 days  
 ~ 4 1/2 - 5 days  
 9.87 +1.54 +1.43 15 Dec  
 9.90 ✓ +1.55 +1.49 16 Dec  
 9.98 +1.59 +1.40 27 Dec  
 225816 00 01 06 -19 37 99 m f

9.63 +1.56 +1.62 21 Nov  
 9.62 +1.54 +1.60 23 Nov  
 9.53 +1.54 +1.60 3 Dec  
 9.71 +1.55 +1.57 13 Aug 69  
 9.78 +1.53 +1.56 " " "  
 9.82 +1.56 +1.44 12 Sept 69  
 9.79 +1.56 +1.51 29 " "  
 9.65 +1.55 +1.59 2 Oct 69  
 9.70 +1.54 +1.61 23 Oct 69  
 9.90 +1.50 +1.46 3 Nov 69  
 9.89 +1.51 +1.46 6 Nov  
 9.74 +1.56 +1.50 17 Nov 69

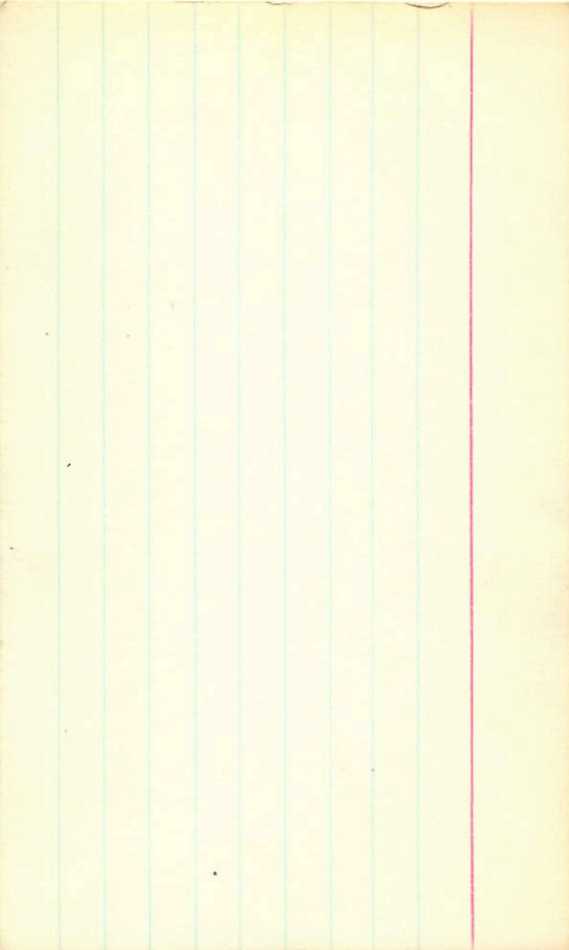
do my report ①  
 8.04 +1.74 5 Dec  
 8.31 +1.39 19 Dec  
 8.30 +1.37 25 "  
 8.08 +1.30 3 Jan 70  
 8.10 +1.30 18 Aug 69  
 8.08 +1.30 22 Aug  
 8.19 +1.38 20 Sept  
 8.14 +1.29 3 Oct 69  
 8.29 +1.38 7 Nov  
 8.28 +1.36 8 Nov  
 8.15 +1.31 19 Nov  
 8.14 +1.30 20 "

⑦



225016 (cont)

9.80 + 1.52 + 1.44 = 30.76



17 Nov Heat

3 Nov

125  
155

(12)

(1)

66 00 03 54 -43 03 7.6 MF 295

14	4	2.42	+1.63	+1.83	2 Oct 69	16	6.23	+1.18	3 Oct 69
		(2.59)	+1.60	+1.72	23 Oct "	4	(5.98)	+1.18	8 Nov 69
9	3	7.43	+1.61	+1.79	3 Nov 69	4	6.17	+1.16	19 Nov
1	1	7.45	+1.60	+1.74	17 Nov 69	4	6.17	+1.15	20
0	0	7.46	+1.61	+1.80	21 Nov 69	0	6.19	+1.20	3 Dec
36	4	7.52	+1.62	+1.76	3 Dec		6.19	+1.17	5
9	3	7.49	+1.64	+1.72	15 Dec "		arms 2.5		
		$\sqrt{29.7}$							
arms	3.5	7.46	+1.62	+1.77					

4 5 3 0 0 - 7  
16 1 9  
2 9 9  
5 3

-021-002

-0002 510.6

-014 1.87

55.142-1400.3

5804 1897.5

$\frac{010}{502}$

-0018

$\frac{+27}{573} 0$

1936.2

55.576

$\frac{02}{5742}$

$\frac{.536}{.043}$   
 $\frac{.492}{.492}$

$\frac{+05}{5734}$

55.417

57.18

1956.9

$\frac{-42}{55.392}$

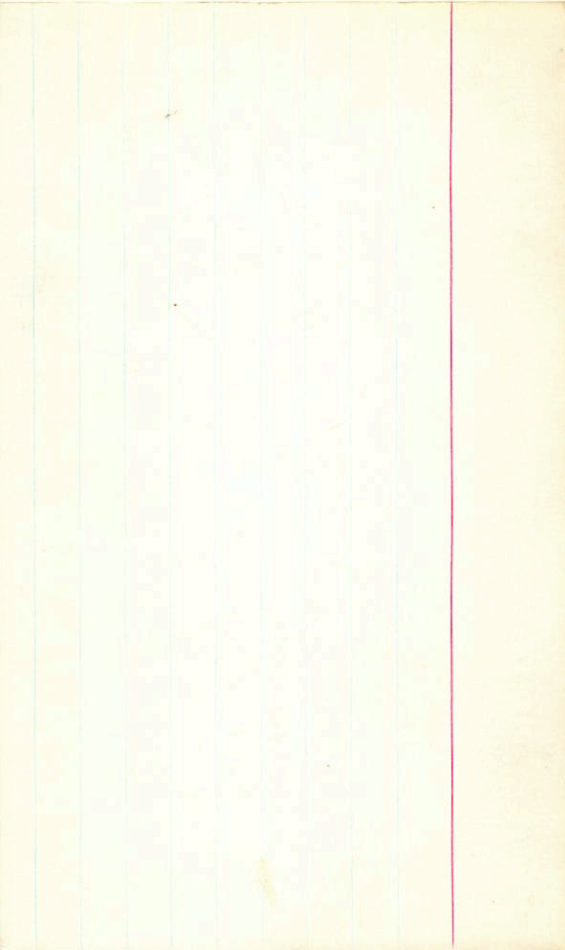
.130

$\frac{+03}{57.15}$

55.392

57.15





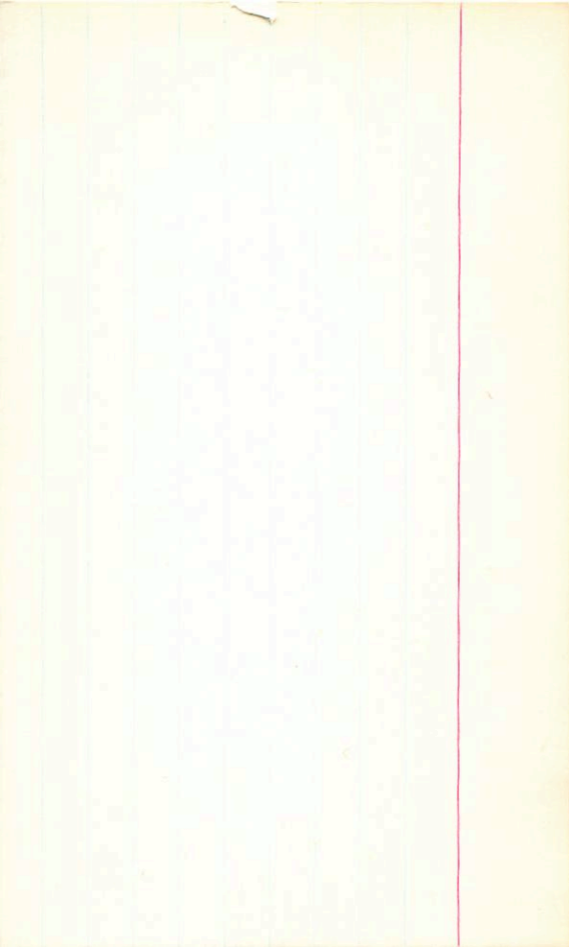


SW Sal

27 Dec 8.03 + 1.73 + 1.52

30 Dec 7.97 + 1.73 + 1.52

6.80 + 0.835 3 Jan 70



Capit Vando x 3 Nov

① 20 days

①

178 80 05 06 -32 47 8-90 M

8.78 +1.44 +1.07 4 Dec 69  
8.68 +1.49 +1.03 15 Dec

②

9.00 +1.43 +1.02 17 Aug 69

8.80 +1.49 +1.08 12 Sep 69

8.88 +1.44 +1.02 29 "

8.85 +1.455 +1.05 2 Oct 69

8.72 +1.47 +1.04 23 Oct

8.44 +1.48 +1.10 3 Nov 69

8.54 +1.47 +1.10 6 Nov

8.72 +1.46 +1.02 17 Nov 69

8.73 +1.46 +1.08 21 Nov 69

6.69 +1.61 25 Dec  
6.70 +1.645 3 Jan 70

6.74 +1.70 Aug 18 69

6.73 +1.71 " 22

6.53 +1.66 20 Sept

6.73 +1.635 3 Oct 69

6.47 +1.60 Nov 69

6.64 +1.545 8 Nov

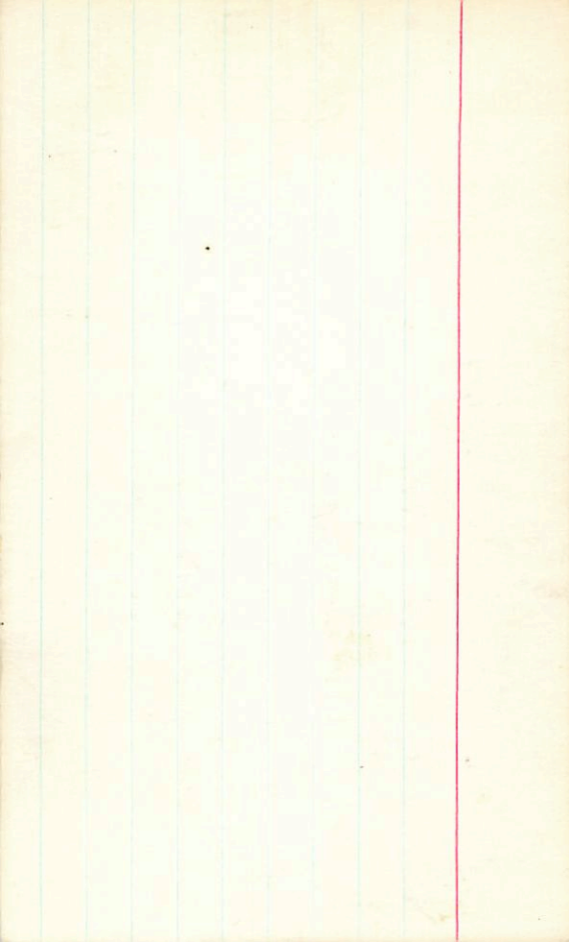
6.69 +1.62 19 Nov

6.67 +1.635 20

6.70 +1.63 5 Dec

③

└



178

27 Dec 8.80 + 1.49 + 0.96

Time	Price	Date	Time	Price	Date	
9.57	+1.55	1-28	4 Dec	7.74	+1.52	5 Dec
9.29	+1.58	1-46	15 Dec	7.66	+1.485	7
9.29	+1.58	1-47	16 "	7.44	+1.44	19 Dec
9.58	+1.58	1-47	16 "	7.52	+1.42	25 "
180	05	06	-37	57	916	48
9.58	+1.48	21 Nov		7.61	+1.535	18 Aug 69
9.67	+1.47	23 Nov		7.55	+1.51	22 "
9.57	+1.51	3 Dec		7.51	+1.47	20 Sept
9.55	+1.505	17 Aug 69		7.70	+1.53	3 Oct
9.70	+1.50	17 "		7.46	+1.43	7 Nov 69
9.25	+1.55	12 Sept 69		7.52	+1.41	8 Nov 69
9.79	+1.49	29 "		7.70	+1.50	19 Nov
9.65	+1.50	2 Oct		7.70	+1.49	20
9.14	+1.56	23 Oct 69				
9.01	+1.53	3 Nov 69				
9.11	+1.53	6 Nov				
9.48	+1.50	17 Nov				

58 days  
 do every  
 night  
 180  
 9.58  
 9.67  
 9.57  
 9.55  
 9.70  
 9.25  
 9.79  
 9.65  
 9.14  
 9.01  
 9.11  
 9.48

