

+4 +10 +5 +4

2348      6      244      -48      09      09

slowly

48.7  
+11.8

(Sings) 69

(19.0)

102

5.76-34 188 928 2.755 259  
125 985  
256  
1191

6.4  
-8.2

-1.5  
-2.8

6.0  
+8

5.75  
-2.2  
3.55

-1009-030 pnd 75.7

-00061-027

-0001  
-1002-027

-0013542 03538.7

~~24121~~ 9.1

~~0011~~

~~024~~  
~~028~~

47.03 1.4

~~56~~  
77

~~0008~~  
~~0002~~

~~03~~

~~4.23~~  
+ 1.20

24172

~~0008~~

~~031~~

46.46 85.31

~~24142~~

~~46.46~~  
+ 2

24152

46.47

54.56

~~24154~~

~~46.50~~

24134

47.39

64.52

~~47.50~~  
~~1.3~~

R



2348.000\*

6.000\*

24.400\*

-48.000\*

-9.000\*

-0.002\*

-0.027\*

5.950\*

154.882



-17.649

212

6.400  
-48.200  
-1.500  
-28.000  
6.000  
158  
8.000

7  
339  
406  
8.29

-0.158  
0.964  
0.213  
-127.212  
-18.454

-0.443  
0.124  
-0.888  
-14.361  
-9.379

0.883  
0.235  
-0.407  
-25.329  
-8.859

95

6.54 +10 -06

2362 6 27.3 +9 04 AP

-015-026.5

426

142 045 1.252 2.655

D107 | -25 +16, +52 +12 +9 088 1.224

$\frac{176}{1400}$

6.45 +10i

+5.1

-2.7

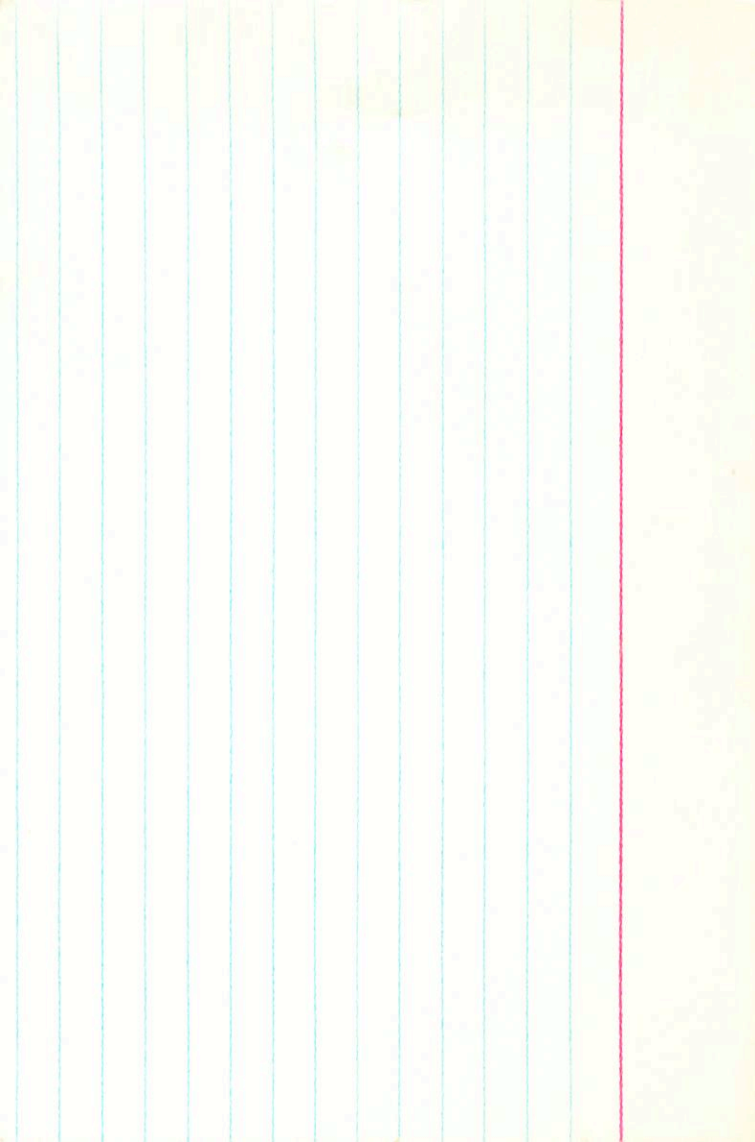
-15.5

-26.5

9

113

6.25  
2.7  
88





W4149

6 27.4 + 9.04

t14d 5V

1485827

368430

-0.0010 -0.005 1 36850

-0011 122 42457

146

21.302 5.5

5107 2.0

2812

21.297

+ 37

21.334

52.42 33.7

+ 1.12

53.54

-170 343 923

+0121 -0081

+0040 +0.7 +12.9

-435 814 -383

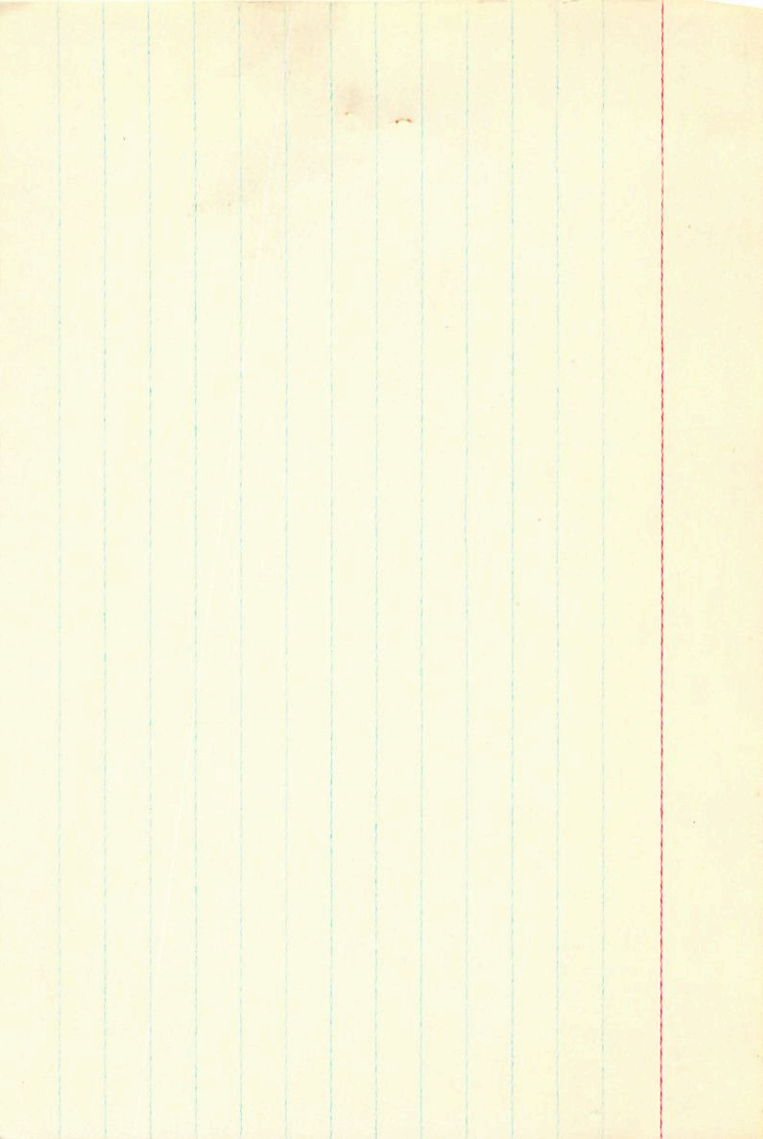
+0309 -0193

+0116 +2.2 -5.4

884 468 -010

-0629 -0111

-0740 -13.8



2348

6 32.0

+28

04

8558

0

~~5.05-03-08 29~~

005 131 1084 2-8 11

$\frac{1}{50}$

182 1083

$\frac{264}{1347}$

ln 6.6v

50074 -0175 26

50037 -0163 6v  
17.06

50062 -015

-0.25  
500  
5.8

0.10

5082  
-009-015

2871

~~6-287~~

+15 56

45

164 169 500

1

9/6

2398.000\*

6.000\*

32.000\*

28.000\*

4.000\*

-0.009\*

-0.015\*

5.800\*

14/25 5.05 107.5 144.544

17.000

0.006

0.982

+18 +17 17.599

-0.046

-0.104

-8 -7 -8.381

-0.069

0.158

-7 -5 -7.257



5/25/22

1304

4450

18950

-00195113

-01472.1

508

426

5/24/22

433

-0005-014

44.54 19342

51877

-0005-0125

417

4009

~~01470~~

4471  
-555

4010

~~01470~~  
-013-012

LB

1000

1000-01

1000-02

1000-03

1000-04

1000-05

1000-06

1000-07

1000-08

1000-09



6.500  
14.800  
-13.000  
-12.000  
7.150  
269  
10.600

-0.180  
0.298  
0.937  
-6.082  
8.299

2385

6 30.2 +7 22

AOIB

46200

8506

4.44 +0.02 -0.28 C

652	105	583	2634	56
052	069	592	2447	104
052	070	988	2642	

12.3

-1000

-1000

0

+

1000

100



14 mm  
46642

6 32.1 +07 37

-0007 ± 2.7  
-0015  
6.4 A0 737.56

4238

3.867  
048  
915

1901.8

+7 36

46.74

1894.6

A055211

3.837  
33  
470

Hydrolysis  
product

122  
661  
-054

47.16  
15  
47.31

1934.5

73.33  
36.7

34.9

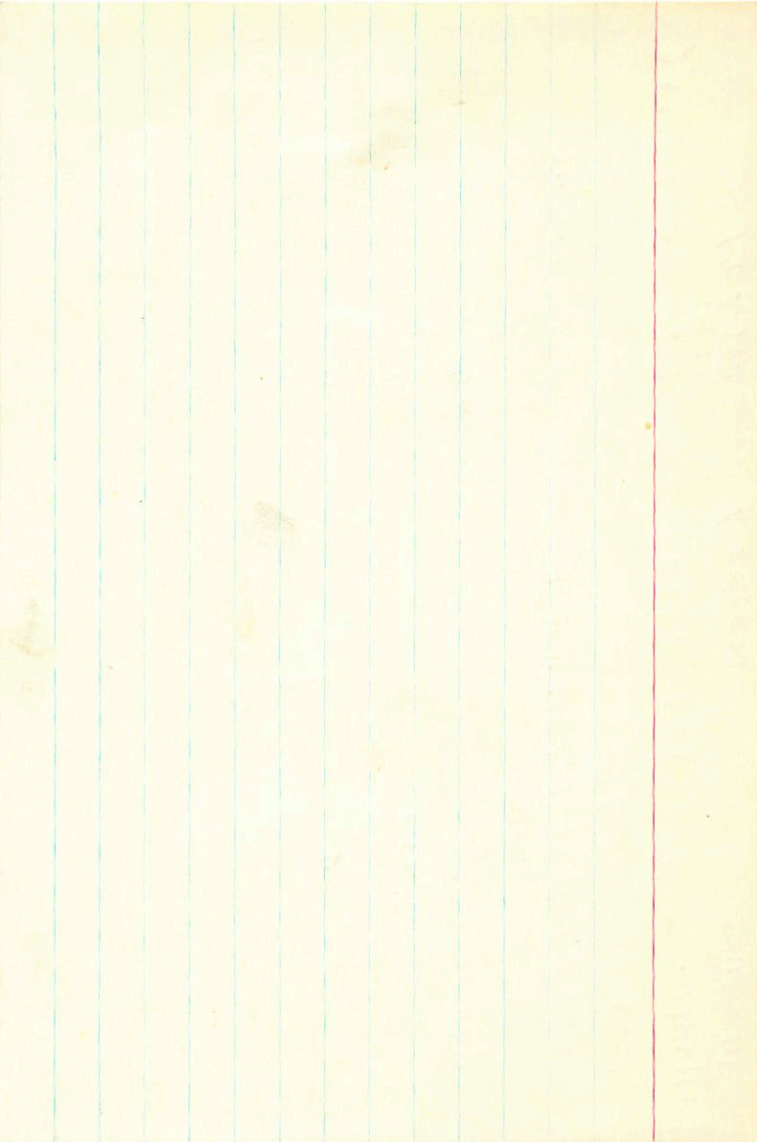
3.822  
30  
852

46.48 1938.83

17 096  
46.63

42.1

46.98  
-09



1135 (15)

6 320 17 37 A0 I

2407

46672

8558

6.44 -02-03 C

-013 1531071

149

000

-0011-004  
-00125-003

Bud 51

-0186

-0177-002

2863 of ch

2088

a = -14

6.5

+2.6

-16.5

6.2-5

+37.5

-0165-004

9996

0300

-2016

-9995

6.2

1372

3867

~~24~~

~~4007 227~~

~~0141017~~

~~4208 889~~

$\frac{33}{900}$

1.8

~~1008~~  
~~1012~~

~~106 221~~  
~~113~~  
0833

046

$\frac{0833}{4729}$

3.837  
+ 37

.974

~~10105~~ - ~~10095~~  
~~100925~~ - ~~10156~~

4716 341

$\frac{4716}{4726}$

3.822  
+ 30  
852

- 0156

- 0168 - 0014

4645 382

$\frac{4645}{4631}$

98





2404.000\*

6.000\*

32.000\*

7.000\*

37.000\*

-0.017\*

-0.002\*

6.200\*

173.780

37.500

0.012

0.911

36.208

0.027

-0.411

-10.797

-0.076

-0.004

-13.3

98

6.500

2.500

-16.500

-8.000

6.200

174

37.500

05

-0.180

0.366

0.913

0.101

34.254

-0.420

0.606

-0.408

-2.766

-14.813

0.885

0.466

-0.013

05



6.500  
7.600  
-16.500  
-4.000  
6.250  
178  
37.500

-0.180  
0.366  
0.913  
7.041  
35.489

-0.430  
0.806  
-0.408  
18.040  
-12.086

0.885  
0.466  
-0.012  
-77.423  
-14.218

98

2412 6 812 -58 43 89

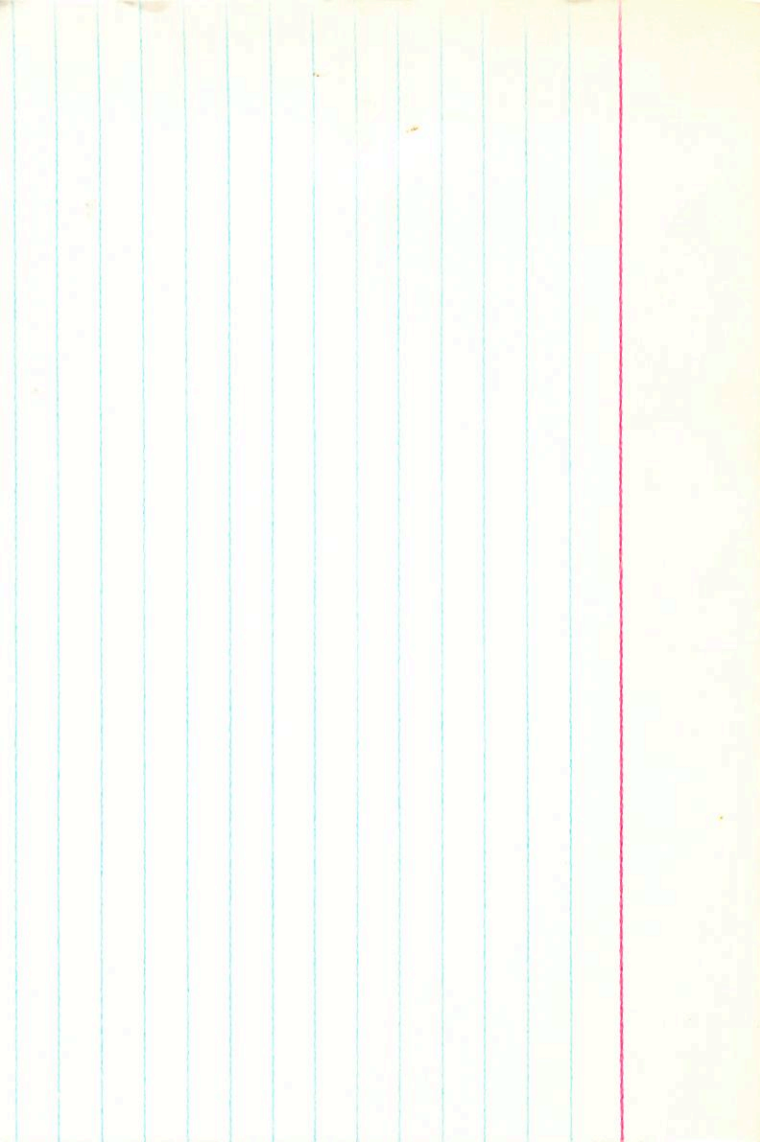
Downy

78

5.70 -26 131520 2768 253

123925  
244  
16  
11

121 parts



2% Ann

2.3  
2

5042 7 31.4 +32 00 2.0 A2 +6.06

60179 8.05 8685 2.8 A0 -1.26

10120/2 9 0.575 8685 8.6V +2.52

$\frac{8.05}{9.10} = 0.88$   
 $\frac{8.05}{1.27} = 6.34$   
 $\frac{8.05}{2.39} = 3.37$   
 $\frac{8.05}{5.36} = 1.50$

~~-191.1 099%~~  
PR

(+2.4)

7.04. from  $\gamma = 1.42$

$\pi_{PR} = 0.5$

$7.86 = m_{od}$   
 $6.86 = m_{(S)}$   
 $8.25$   
 $(14^2)$

8.82  
 $8.2 \times 8 = 1$   
2460  
-8685  
-9693 -4957

~~-01275 -0737 0350~~  
~~-01263 -0762~~  
-1607  
~~-161-074~~

-150  
-074  
1.4  
+0.9

99

VEL. :  
MODULUS :  
DISTANCE :  
PM. DEC. :  
PM. R.A. :  
DEC. :  
R.A. :  
0.200 :  
1.400 :  
-14.000 :  
-100.000 :  
32.000 :  
7.200



R.A. : 7.500  
DEC. : 32.000  
PM. R.A. : -190.000  
PM. DEC. : -74.000  
DISTANCE : 1.400  
MODULUS : 19  
VEL. : 0.900

4 33.0 -22 55 A0Z

2414

46933

8877

4.54 -03 -04 6 87

(16) +37, +41, +33, +29, +36

-607 124 1189 (3) 2828 (4) 615

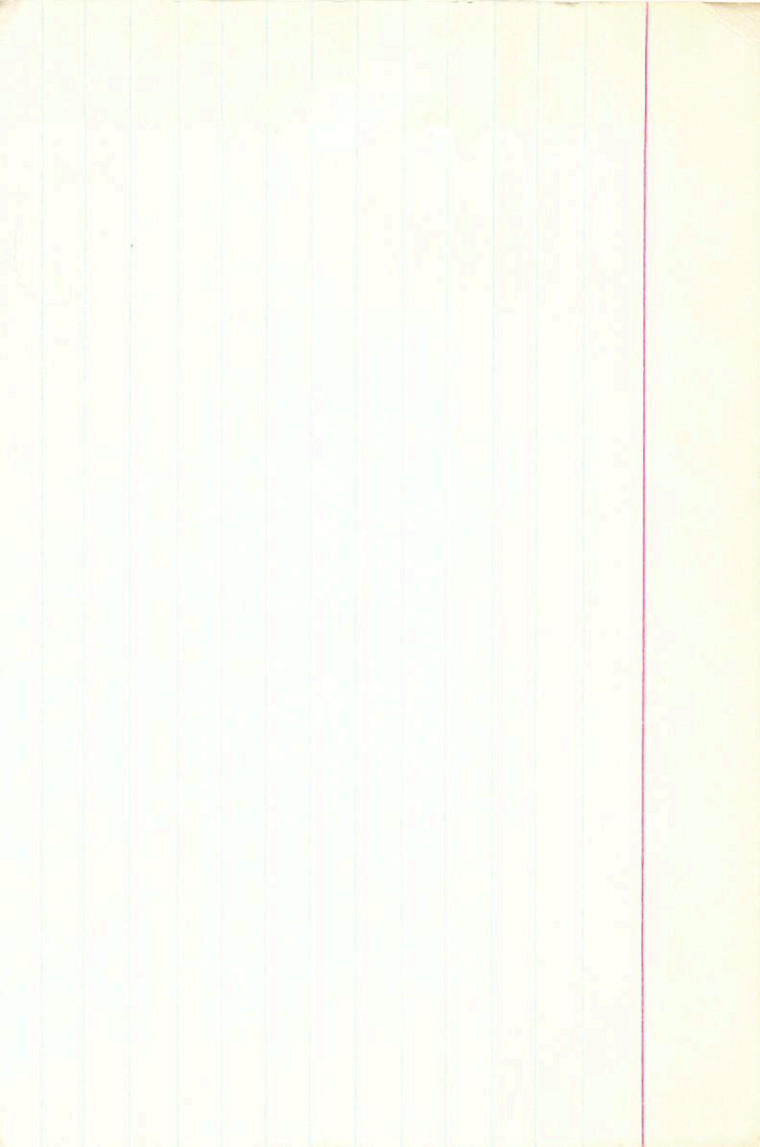
40 7, 1 +221 +267, 30.3

125 a=009

MAN 123, 233 +31, 0, 16

250  
1.190  
1.440  
1.453

-11



5-3<sup>2</sup>CMa

2414

u 33.0 -22 55

4.54 -0.02

+32.0

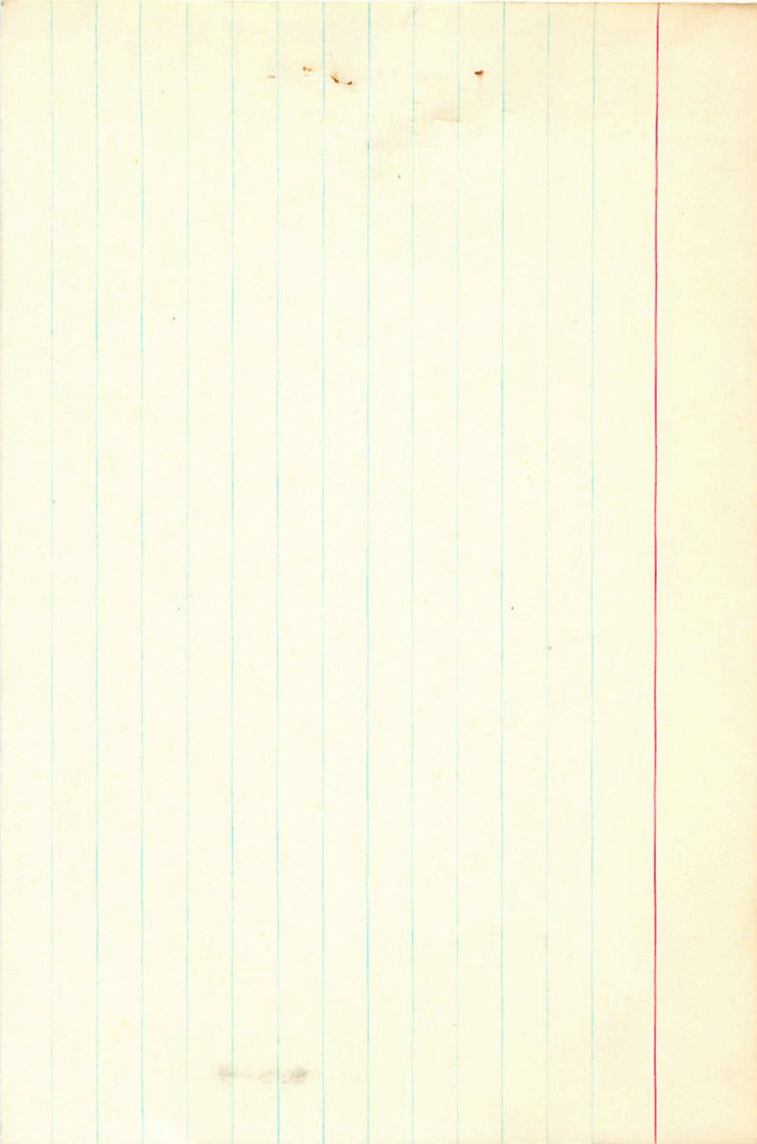
+18.45A  
var

+010 +0136c

+011 +00M30

+009 +01417

+010 +015



2421  
47105

6 348

46 27

4012

8633

1.94 00 +025

+00300

004 145 1.187 2.869

0514

+043

009 139 1.178 2.872

IG

+043  
-12.1

009 150 1.185.8 2.869

230  
a=35  
a=108

141

a=030 1485

282

a=104 1503

1174

Bud 51

758

-005

152

+044 -044

306

2.00

1143

153 1133

-72.8

1.9

-0.2

2.1

100









100

0.050  
0.078

1.279

2421.000\*

6.000\*

34.800\*

16.000\*

27.000\*

0.043\*

-0.043\*

2.100\*

26.303

-12.500

2277

-0.086

0.955

14

-14.187

-0.261

-0.288

4

-3.269

5 100

0.087

0.078

1.331

not paid

248 Mem 6 34.8 116 27 -12.50

2421 1.95 0.00 10.01 140E 1048 -046 6-6

1048 -043 030

1043 -0441

1046 -044

29M (110)

414 (17)

414 (11)

25M (52)

988 -151 287 959 +046 -044 -12.5 -012 -3.6 -199

-045 012 -007 002 -223 024 -12.0 +1.8 -11.9

-3.5 -11.3 -9.6 04

-14.2 -3.2 +1.1 .5

-2.0 -8.4 -6.7 065

-10.7 -2.2 0.0

47105 6 34.8 +10 27 1.9 A3 -12.5e

4280

8633

2421

+0032<sup>100</sup> -043 N30

+0031 -044 $\pm$ 0.7  
 $\pm$ 0.7



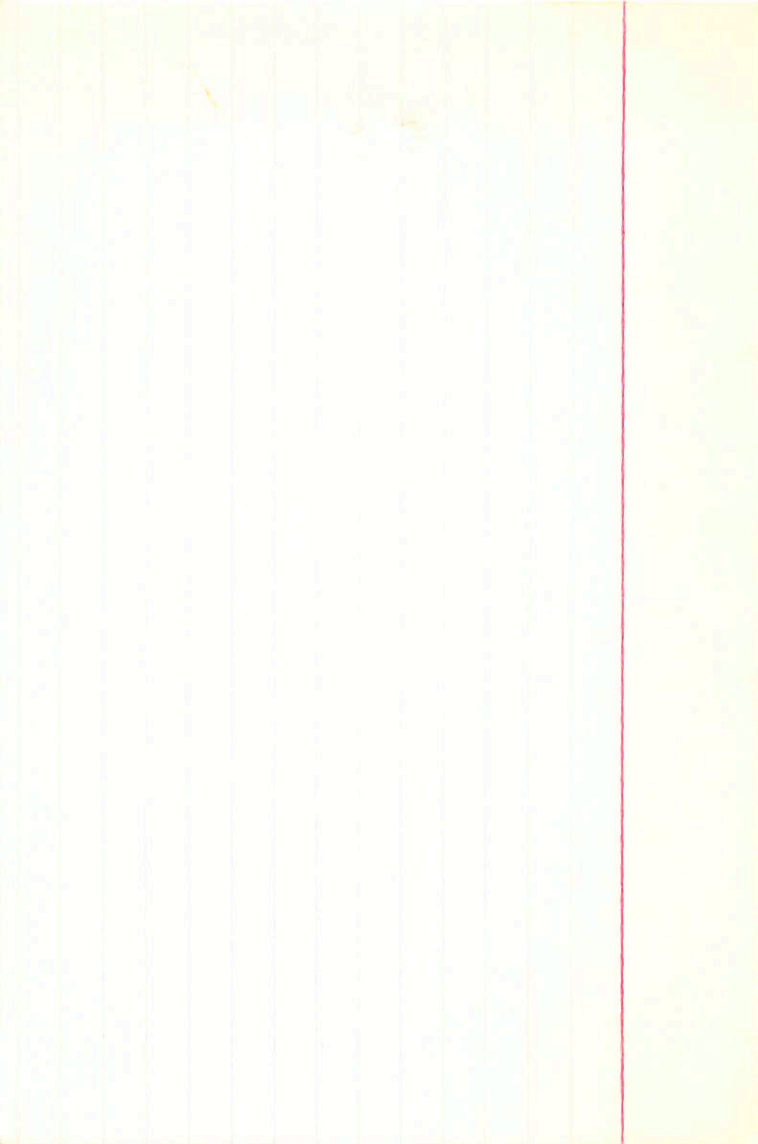
$$\Delta x = 0.7 \text{ m}$$

2424 t 33.7 -36 44

090

long





2420 6 35.3 485 57 08 VI

47100

8655 5.20 -0.07 -0.40 (3)

(0.50)

11 -0.00 -0.16  
-30 -0.10 -0.14

5.34 -0.10 056 593 2.696  
93 595  
186

04  
10193 1106  
99  
-1

Very Vol

787

(+10) !!

6.6  
+40  
-4B  
-114  
6.6  
+10

( $\Delta V = -1.5$ )

5.0  
-1.6

16  
1072  
-024  
11100

101



000.01  
 000.02  
 000.03  
 000.04  
 000.05  
 000.06  
 000.07  
 000.08  
 000.09  
 000.10

000.11  
 000.12  
 000.13  
 000.14  
 000.15

~~6.600~~  
40.000  
-13.000  
-14.000  
6.600  
209  
10.000

-0.203  
-0.177  
0.963  
21.310  
14.084

Ember

53 Ave

6 35.2 + 29 02

2425

5.26 + 03 - 03 276

x 10.2

2514h

000 181 901 2864

008 081 800 2863 2

int

182 828 2539

96

int

1291

51 + 52 -

9

1200 - 92100 -

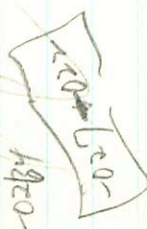
921

1000 - 0220 - 96

1082 815 281 200 -

364 936

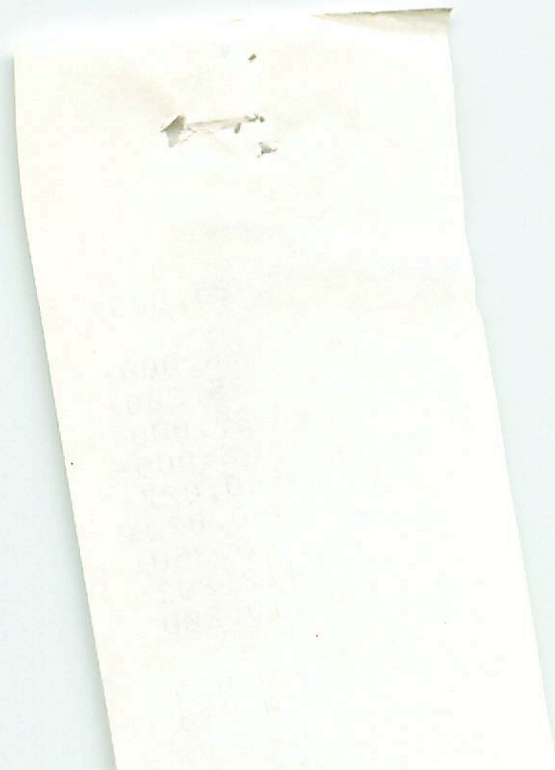
1200



1000

1000 - 1000 - 1000

102





2425.000\*

6.000\*

35.200\*

29.000\*

2.000\*

-0.027\*

-0.022\*

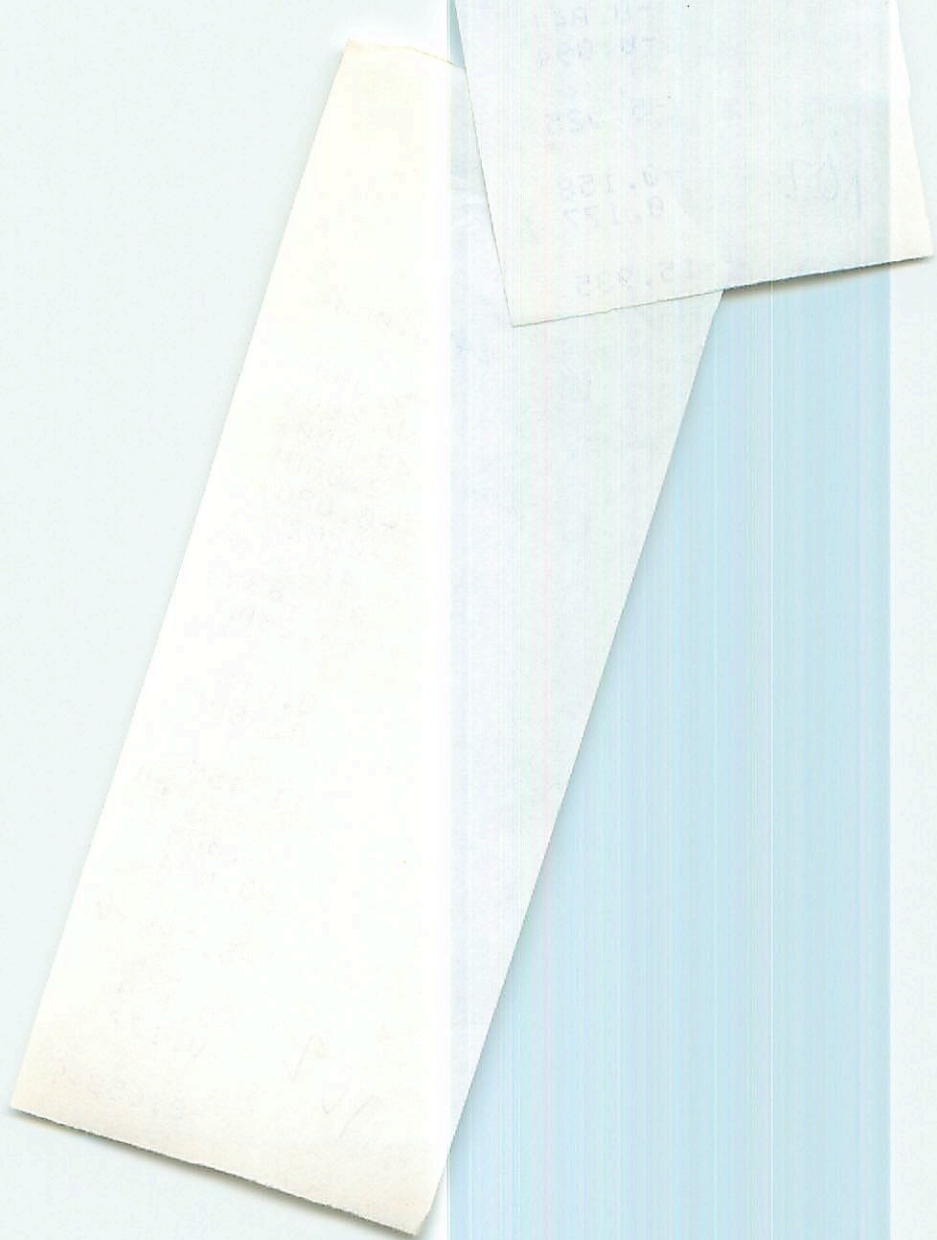
5.250\*

112.202

10.200

0.025

0.980



102  
-0.041  
-0.094  
-5.50

2423.000\*  
6.000\*  
35.200\*  
29.000\*  
2.000\*  
-0.020\*  
-0.022\*  
4.550\*  
81.283<sup>47</sup>  
10.200  
0.018  
0.980  
11.455 +11  
-0.055<sup>30</sup>  
-0.094  
-5.393 -6  
-0.129<sup>774</sup>  
0.177  
-8.658 -9

102

-16.157

2448 6 36.3 -16 49 AD

Stony

①

6.00 30 156 11542.78

8411 571

380

total

1478

05/16 4867 61112

2405 6 3.84 +28 19

Asst: Varant -03 100 536 8.714

454311 +143 90 54  
2000.5 140

-00091 -0174 2V 6.6  
-00054 -0162 +583  
-00079 -0147 -12.5

-010M -14  
6.7  
+143

-011-014

103

00.00

00.00

00.00

00.00

00.00

00.00

00.00

00.00

00.00

00.00

00.00

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00.00

00.00

00.00

00.00

00.00

00.00

00.00

00.00

00.00

00.00

00.00





6.600  
~~28.300~~  
-12.500  
-14.000  
6.700  
219  
19.300

-0.203  
0.022  
0.979  
9.111  
20.888

-0.416  
0.903  
-0.106  
-38.211  
-10.415

 0.886  
0.429

2435 6 33.9 -52 56 B5 III

47806 4.38-02-15 B+05

4604

028 050 1.284 2.702 cr

69 057 1.284

184

$\frac{184}{1.76}$

$\frac{A}{A}$

VO 4:20

+23.1 a

$\frac{2.95}{4.85}$   
 $\frac{7.3}{7.1}$

-60135 +006 N30

-60175 +006 P154

-0156  $\left[ \frac{-011+006}{9510} \right]$

104

2435.000\*

6.000\*

33.900\*

-52.000\*

-56.000\*

-0.011\*

0.006\*

7.300\*

288.403

23.100

0.039

104

989-147 -758 603 -014 006 123.1 -005 -18.5 019 ✓  
014 005 002 001 062 ✓ 033 +13.9 -2.0 +13.6

48584

6

365

~77

39

FLS

20175  
 20306  
 20557  
 FID  
 5000

9098  
 4150  
 - 2196  
 9760  
 0616  
 0093

21318

414

21318  
 20557  
 20306

0m ~ 0.1

2455 6 37.5 -03 35 40

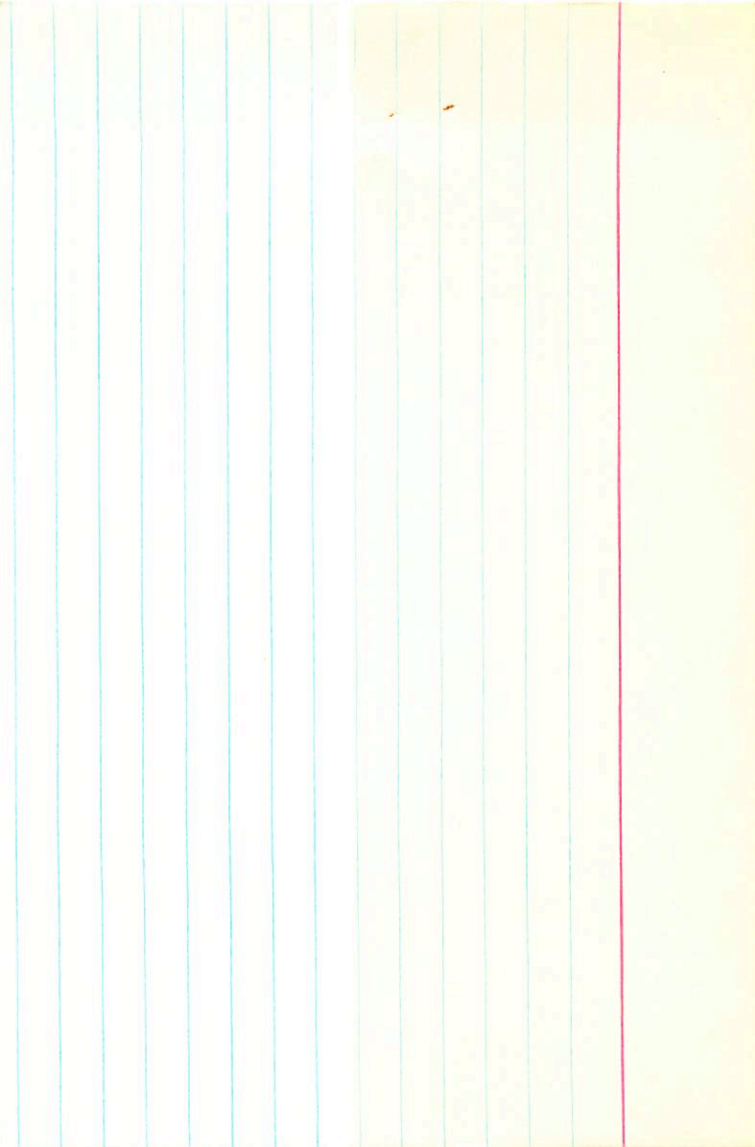
long

606 -17 150 910 2858 459

145 913  
250  
1203

NOVA

+6.7



2457 6 38.5 +14 27 40E

⊙

619-01-07

-006 133 1127 2.814

$\frac{2}{5}$

131 1128

$\frac{262}{1390}$

10005 -0176 20

10005 +0176 20

10032 -0167 20

⊙

6.65

-0150 F14

100017

10024

10003-015



1055

1870  
1871  
1872  
1873  
1874  
1875  
1876  
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1892  
1893  
1894  
1895  
1896  
1897  
1898  
1899  
1900

2457.000\*

6.000\*

38.500\*

16.000\*

27.000\*

0.003\*

-0.015\*

6.650\*

213.796

20.000

-0.019

0.951

14.991

-0.067

-0.294

2457.000\*

114

114

2435.000\*

6.000\*

33.900\*

-52.000\*

-56.000\*

-0.011\*

0.006\*

7.300\*

288.403

23.100

0.038

0.129

13.875

0.023

-0.906

-14.316

-0.040

-0.402

-20.725

104