

60 inch Telescope Log  
 Observer: Braga  
 PI: Mahavi, Braga  
 Spectrograph: FAST  
 Grating: std  
 Date: 12/5/99  
 Page: 8041

| Number | Object        | R. A.      | Dec.        | L/R | Exp     | Comments  |
|--------|---------------|------------|-------------|-----|---------|---|
| 1-10   | BIAS          |            |             |     |         | binby 2 ↓   |
| 11-20  | FLAT          |            |             |     | 12s     |   |
| 21-30  | BIAS          |            |             |     |         | binby 4 ↓   |
| 31-40  | FLAT          |            |             |     | 60s     | focus 1050  |
| 41-45  | DARK          |            |             |     | 900s    |   |
| 46-50  | sky           |            |             |     | 60s     | binby 4 ↓   |
| 51     | cen           |            |             |     | ↑       |   |
| 52-56  | sky           |            |             |     | 20s     | binby 2 ↓   |
| 57     | comp          |            |             |     | ↑ (12s) |   |
| 58     | N7331         | 22 37 02   | +31 24 46.9 | 57  | 120s    | binby 4 ↓   |
| 59     | comp          |            |             |     | ↑       |   |
| 60     | Feige 110     | 23 17 23.5 | -5 26 22    | 56  | 180s    |   |
| 61     | comp          |            |             |     | ↑       |   |
| 62     | srgh075.011   | 00 35 39.3 | +25 40 40   | 59  | 300s    |   |
| 63     | comp          |            |             |     | ↑       |   |
| 64     | srgh075.019   | 00 36 18.3 | +25 48 25   | 59  | 400s    |   |
| 65     | comp          |            |             |     | ↑       |   |
| 66     | srgh075.021   | 00 36 19.4 | +25 48 25   | 59  | 450s    |   |
| 67     | comp          |            |             |     | ↑       |   |
| 68     | srgh075.024   | 00 36 32.5 | +25 48 16   | 59  | 600s    | extra # is 022124p57115 would like it, too possible |
| 69     | comp          |            |             |     | ↑       |   |
| 70     | 022124p57115  | 02 21 27.4 | +57 11 51.7 | 83  | 600s    | 1-2 extra stars to the west want, done 42           |
| 71     | comp          |            |             |     | ↑       |   |
| 72     | 022128p570304 | 02 21 29   | +57 03 01.3 | 83  | 450s    | want brightest                                      |
| 73     | comp          |            |             |     | ↑       |   |
| 74     | 022128p570351 | 02 21 28.9 | +57 03 51.8 | 83  | 450s    |   |
| 75     | comp          |            |             |     | ↑       |   |
| 76     | 022124p571359 | 02 21 28.9 | +57 13 58.9 | 83  | 450s    | circus!   |
| 77     | comp          |            |             |     | ↑       |   |
| 78     | 022130p570124 | 02 21 30.6 | +57 01 24.6 | 83  | 450s    |   |
| 79     | comp          |            |             |     | ↑       |   |
| 80     |               |            |             |     | 900s    |   |
| 81     | comp          |            |             |     | ↑       |   |

# 71 is bright star to West on file 70 renamed it

022124 p 57115

chip gain calculation slightly low (~7.8)

60 inch Telescope Log  
 Observer: Bragg  
 PI: Bragg, Calvert  
 Spectrograph: FAT  
 Grating: std  
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| Number | Object        | R. A.      | Dec.        | L/R | Exp   | Comments   |
|--------|---------------|------------|-------------|-----|-------|--|
| 82     | 022130p570359 | 02 21 30.8 | +57 03 59.8 | 83  | 600s  | not so great... cirrus                               |
| 83     | comp          |            |             |     | ↑     |  |
| 84     | 022132p570035 | 02 21 32.1 | +57 00 36   | 83  | 600s  | "  |
| 85     | comp          |            |             |     | ↑     |  |
| 86     | 022133p570749 | 02 21 33.3 | +57 07 49.8 | 83  | 600s  | " try longer exp?                                    |
| 87     | comp          |            |             |     | ↑     |  |
| 88     |               |            |             | 83  | 1500s | barely OK  |
| 89     | comp          |            |             |     | ↑     |  |
| 90     | 022132p570035 |            |             | 83  | 1500s | trying longer exp (cirrus)                           |
| 91     | comp          |            |             |     | ↑     |  |
| 92     | 022130p570359 |            |             | 83  | 1200s | redo bit of clouds                                   |
| 93     | comp          |            |             |     | ↑     |  |
| 94     | 022133p570923 | 2 21 34    | +57 09 23   | 83  | 900s  |  |
| 95     | comp          |            |             |     | ↑     |  |
| 96     | 022133p571202 | 2 21 33.4  | +57 12 22   | 83  | 600s  |  |
| 97     | comp          |            |             |     | ↑     |  |
| 98     | 022135p570831 | 2 21 35.9  | +57 08 31.9 | 83  | 600s  | cloud-ack! want at ~140                              |
| 99     | comp          |            |             |     | ↑     |  |
| 100    | 022135p570950 | 2 21 35.2  | +57 09 50   | 83  | 900s  | I think one on E is one I want (both might be good)  |
| 101    | comp          |            |             |     | ↑     |  |
| 102    | 022136p571523 | 2 21 37    | +57 15 23   | 83  | 900s  | more clouds on their way... black                    |
| 103    | comp          |            |             |     | ↑     |  |
| 104    | 022139p565914 | 2 21 39.7  | 56 59 54    | 83  | 1200s |  |
| 105    | comp          |            |             |     | ↑     |  |
| 106    | 022146p570822 | 2 21 40.3  | 57 08 22.9  | 82  | 1200s | doing exp bit of cloud                               |
| 107    | comp          |            |             |     | ↑     |  |
|        |               |            |             |     |       | stopping for total cloud cover ↓ a little better now |
| 108    | qv Sony-57601 | 05 55 11.3 | 00 06 48    | 112 | 900s  |  |
| 109    | comp          |            |             |     | ↑     |  |

60 inch Telescope Log

Observer: Brags

PI: cdNet

Spectrograph: FACT

Grating: std

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Date: 12/5/99

| Number  | Object             | R.A.        | Dec.         | I/R | Exp   | Comments                 |
|---------|--------------------|-------------|--------------|-----|-------|--------------------------|
| 110     | gvsorb-54417       | 05 49 55.3  | +00 06 32.3  | 112 | 1500s | (long bit of clouds)     |
| 111     | comp               |             |              |     | ↑     | may be extra to the east |
| 112     | gvsorb-53568       | 05 48 11.72 | -00 21 53    | 112 | 1200s |                          |
| 113     | comp               |             |              |     | ↑     |                          |
|         |                    |             |              |     |       | clouded over again --    |
|         |                    |             |              |     |       | try somewhere else       |
|         |                    |             |              |     |       | northward then           |
| 114     | gvsorb-60484       | 05 51 9.6   | -00 51 0.5   | 112 | 1200s | later now                |
| 115     | comp               |             |              |     | ↑     |                          |
| 116     | gvsorb-58275       | 05 45 10.4  | -00 31 22.5  | 112 | 1500s |                          |
| 117     | comp               |             |              |     | ↑     |                          |
| 118     | gvsorb-50206       | 05 57 27.79 | -00 13 13.10 | 112 | 1200s |                          |
| 119     | comp               |             |              |     | ↑     |                          |
| 120     | a574-117           | 07 21 50.98 | +56 15 52    | 64  | 1200s | NO COMP = REB            |
| 121     | comp               | 7 12 50     | +55 38 38    |     | ↑     | MOVED                    |
| 122     | a574-115           | 07 12 50.4  | +55 38 38    | 64  | 1200s | extra obj to east        |
| 123     | comp               |             |              |     | ↑     |                          |
| 124     | a574-103           | 07 20 42.98 | +57 10 22.2  | 64  | 1200s |                          |
| 125     | comp               |             |              |     | ↑     |                          |
| 126     | SN2986?            |             |              |     | 600s  | hope 0° = parallel       |
| 127     | SN2985             | 9 44 18     | -21 15 14    | 2   | 600s  | → for real this time ←   |
| 128     | Feige 37 (I think) |             |              |     | 120s  | 20° = parallel           |
| 129     | comp               |             |              |     | (12s) |                          |
| 130     | comp               |             |              |     |       |                          |
| 131-140 | BIAS               |             |              |     |       | bin by 4 ↓               |
| 141-150 | FLAT               |             |              |     | 6s    |                          |
| 151-160 | BIAS               |             |              |     |       | bin by 2 ↓               |
| 161-170 | FLAT               |             |              |     | 12s   |                          |
| 171-175 | DARK               |             |              |     | 900s  |                          |

at 9:20