

GRATING TILT: 890C

## KAST SPECTROGRAPH LOGSHEET

Date: 7/14/17

Page 1 of 2  
Tape:

Observer(s): MARIE LAU, GREG SALLABERRY

Blue X/Y Stage: \_\_\_\_\_ / \_\_\_\_\_

Weather: CLEAR

Red X/Y Stage: \_\_\_\_\_ / \_\_\_\_\_

| OBS# | OBJECT                 | Blue/<br>Red | Direct/<br>Spect | EXP.<br>TIME | PST/UT | HA | AIR<br>MASS | SET-<br>UP | TUB<br>Angle | COMMENTS                                 |
|------|------------------------|--------------|------------------|--------------|--------|----|-------------|------------|--------------|--|
| 1    | COVERAGE               | B            | Spect            | 60.00        | 23:00  |    |             | 4146       |              | START = 3227Å (1.418/612)<br>END ~ 6113Å |
| 1    | COVERAGE<br>(He Hg Cd) | R            | Spect            | 10.00        | 23:00  |    |             |            |              | START = 4953Å                            |
| 2    | COVERAGE<br>(Ar Lamp)  | R            | Spect            | 10.00        | 23:00  |    |             |            |              |  |
| 3    | COVERAGE<br>(Ar Lamp)  | I            | Spect            | 10.00        | 23:00  |    |             |            |              | END ~ 7850Å                              |
| 2    | FOCUS, AR              | B            |                  | 20.00        |        |    |             |            |              | COLLIMATOR 23.196mm                      |
| 3    | FOCUS, AR              | B            |                  | 20.00        |        |    |             |            |              | COLLIMATOR 20.196mm                      |
| 4    | Focus, AR              | B            |                  | 20.00        |        |    |             |            |              | COLLIMATOR 26.200mm                      |
| 5    | FOCUS, AR              | B            |                  | 20.00        |        |    |             |            |              | COLLIMATOR 29.200mm                      |
| 6    | Focus, AR              | B            |                  | 20.00        |        |    |             |            |              | COLLIMATOR 17.196mm                      |
| 7    | FOCUS, AR              | B            |                  | 20.00        |        |    |             |            |              | COLLIMATOR 14.195mm<br>→ 21.1 mm FOCUS   |
| 4    | FOCUS, AR              | R            |                  | 3.00         |        |    |             |            |              | COLLIMATOR -9.496mm                      |
| 5    | FOCUS, AR              | R            |                  | 3.00         |        |    |             |            |              | COLLIMATOR -                             |

COLLIMATOR BLUE → 21.1mm

COLLIMATOR RCD → -1.4mm

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Blue X/Y Stage: \_\_\_\_\_ / \_\_\_\_\_

Red X/Y Stage: \_\_\_\_\_ / \_\_\_\_\_

| OBS#  | OBJECT | Blue/<br>Red | Direct/<br>Spect | EXP.<br>TIME | PST/UT  | HA | AIR<br>MASS | SET-<br>UP | TUB<br>Angle | COMMENTS                               |
|-------|--------|--------------|------------------|--------------|---------|----|-------------|------------|--------------|--|
| 6     | FOCUS  | R            |                  | 3.00         |         |    |             |            |              | COLLIMATOR - 3.99 mm                   |
| 7     | FOCUS  | R            |                  | 3.00         |         |    |             |            |              | COLLIMATOR - 4.99 mm                   |
| 8     | FOCUS  | R            |                  | 3.00         |         |    |             |            |              | COLLIMATOR 2.500 mm                    |
| 9     | FOCUS  | R            |                  | 3.00         |         |    |             |            |              | COLLIMATOR 5.5 mm<br>[FOCUS - 1.41 mm] |
| 8     | ARC    | B            |                  | 20.00        | SUN=0.5 |    |             |            |              | Ar, He, Hg-Cd, Hg-A, Ne                |
| 9     | ARC    | B            |                  | 60.00        |         |    |             |            |              |  |
| 10    | ARC    | R            |                  | 1.00         |         |    |             |            |              |  |
| 11    | ARC    | R            |                  | 3.00         |         |    |             |            |              |  |
| 10    | BIAS   | B            |                  | 0.00         |         |    |             |            |              |  |
| 11-20 | BIAS   | F            |                  | 0.00         |         |    |             |            |              |  |
| 12    | BIAS   | R            |                  | 0.00         |         |    |             |            |              |  |
| 13-22 | BIAS   | R            |                  | 0.00         |         |    |             |            |              |  |

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Blue X/Y Stage: \_\_\_\_\_ / \_\_\_\_\_

Red X/Y Stage: \_\_\_\_\_ / \_\_\_\_\_

| OBS#  | OBJECT                | Blue/<br>Red | Direct/<br>Spect | EXP.<br>TIME | PST/UT | HA | AIR<br>MASS    | SET-<br>UP    | TUB<br>Angle | COMMENTS                               |
|-------|-----------------------|--------------|------------------|--------------|--------|----|----------------|---------------|--------------|--|
| 21    | DOME                  | B            |                  | 20.00        |        |    |                | SLIT =<br>1.5 |              | SUPER BLUE DOME = 40                   |
| 23    | DOME                  | R            |                  | 3.00         |        |    |                |               |              |  |
| 22    | DOME                  | B            |                  | 20.00        |        |    |                |               |              | DIMMER = 80                            |
| 24    | DOME                  | R            |                  | 10.00        |        |    |                |               |              | DIMMER = 60                            |
| 25-35 | DOME                  | R            |                  | 3.00         |        |    |                |               |              | DIMMER = 100                           |
| 25-33 | DOME                  | B            |                  | 40.00        |        |    |                |               |              |  |
| (TOO) | Coverage<br>He, Hg-Cd | B            |                  | 20.00        |        |    | SLIT = .5      | d57           |              | BAD POS. (TRASH)                       |
| 34    | COVERAGE              | B            |                  | 20.00        |        |    |                |               |              | START = 3208 A                         |
| 35    | COVERAGE              | B            |                  | 20.00        |        |    |                |               |              | END = 6102 A                           |
| 36    | FOCUS                 | B            |                  | 20.00        |        |    | Decker =<br>2" |               |              | COLLIMATOR 24.104 mm                   |
| 37    | FOCUS                 | B            |                  | 20.00        |        |    |                |               |              | COLLIMATOR 24.104 mm                   |
| 38    | FOCUS                 | B            |                  | 20.00        |        |    |                |               |              | COLLIMATOR 18.104 mm                   |
| 39    | FOCUS                 | B            |                  | 20.00        |        |    |                |               |              | COLLIMATOR 22.104 mm<br>FOCUS: 23.4 mm |

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Blue X/Y Stage: \_\_\_\_\_ / \_\_\_\_\_

Red X/Y Stage: \_\_\_\_\_ / \_\_\_\_\_

| OBS# | OBJECT                | Blue/<br>Red | Direct/<br>Spect | EXP.<br>TIME | PST/UT | HA | AIR<br>MASS | SET-<br>UP           | TUB<br>Angle | COMMENTS                                |
|------|-----------------------|--------------|------------------|--------------|--------|----|-------------|----------------------|--------------|---|
| 36   | COVERAGE<br>He, Hg-Cd | R            |                  | 3.00         |        |    |             | TILT =<br>4876       |              | DECKER WRONG → BAD                      |
| 37   | COVERAGE              | R            | SPECT            | 3.00         |        |    |             | GRATING<br>=300/7500 |              | START = 5420 Å                          |
| 38   | COVERAGE<br>Ne        | R            |                  | 10.00        |        |    |             |                      |              |   |
| 39   | COVERAGE<br>He, Hg-A  | R            |                  | 10.00        |        |    |             |                      |              | END = 11963 Å                           |
| 40   | FOCUS                 | R            |                  | 10.00        |        |    |             | Decker<br>2"         |              | COLLIMATOR -4.399 mm                    |
| 41   | FOCUS                 | R            |                  | 10.00        |        |    |             |                      |              | COLLIMATOR -4.399 mm                    |
| 42   | FOCUS                 | R            |                  | 10.00        |        |    |             |                      |              | COLLIMATOR 1.601 mm                     |
| 43   | FOCUS                 | R            |                  | 10.00        |        |    |             |                      |              | COLLIMATOR -7.399 mm                    |
| 44   | FOCUS                 | R            |                  | 10.00        |        |    |             |                      |              | COLLIMATOR -10.399 mm<br>FOCUS - 4.8 mm |
| 40   | ARC                   | B            | SPECT            | 20.00        |        |    |             | SLIT<br>=.5"         |              | ARC 20.00 SPECT 20.00                   |
| 41   | ARC                   | B            |                  | 6000         |        |    |             |                      |              |   |
| 45   | ARC                   | R            |                  | 1.00         |        |    |             |                      |              |   |

d57 FOCUS: B: 23.4mm

R: -4.8mm

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Blue X/Y Stage: \_\_\_\_\_ / \_\_\_\_\_

Red X/Y Stage: \_\_\_\_\_ / \_\_\_\_\_

| OBS#  | OBJECT | Blue/<br>Red | Direct/<br>Spect | EXP.<br>TIME | PST/UT | HA | AIR<br>MASS | SET-<br>UP | TUB<br>Angle | COMMENTS                               |
|-------|--------|--------------|------------------|--------------|--------|----|-------------|------------|--------------|--|
| 46    | ARC    | R            |                  | 5.00         |        |    |             |            |              |  |
| 42    | BIAS   | B            |                  | 0.00         |        |    |             |            |              |  |
| 47    | BIAS   | R            |                  | 0.00         |        |    |             |            |              |  |
| 43-52 | BIAS   | B            |                  | 0.00         |        |    |             |            |              |  |
| 48-57 | BIAS   | R            |                  | 0.00         |        |    |             |            |              |  |
| 53    | DOME   | B            |                  | 4.00C        |        |    |             | SUT<br>=2" |              | DIMMER = 100<br>] MIRROR<br>ROS<br>BAD |
| 58    | DOME   | R            |                  | 1.00         |        |    |             |            |              |  |
| 54    | DOME   | B            |                  | 4.00C        |        |    |             |            |              | SATURATED                              |
| 56    | DOME   | R            |                  | 1.00         |        |    |             |            |              |  |
| 55    | DOME   | B            |                  | 30.00        |        |    |             |            |              | SATURATED                              |
| 56    | DOME   | B            |                  | 25.00        |        |    |             |            |              |  |
| 57-66 | DOME   | B            |                  | 25.00        |        |    |             |            |              |  |

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| OBS#  | OBJECT     | Blue/<br>Red | Direct/<br>Spect | EXP.<br>TIME | PST/UT | HA | AIR<br>MASS | SET-<br>UP | TUB<br>Angle | COMMENTS                  |
|-------|------------|--------------|------------------|--------------|--------|----|-------------|------------|--------------|---------------------------|
| 6069  | Dome       | R            |                  | 1.00         |        |    |             |            |              |                           |
| 67    | BD+33      | B            |                  | 120.0        | 2033   |    | 1.00        |            | 193.0°       | SEEING = 1.5" (20:00 PST) |
| 70    |            | R            |                  | 170.0        |        |    |             |            |              |                           |
| 68-69 | J1617+4232 | B            |                  | 21800.0      | 20:50  |    | 1.01        |            | 130.2°       |                           |
| 71-72 |            | R            |                  | 21800.0      |        |    |             |            |              |                           |
| 70    | J1617+4232 | B            |                  | 1800.0       | 21:50  |    | 1.03        |            | 130.2°       |                           |
| 73    |            | R            |                  | 1800.0       |        |    |             |            |              |                           |
| 71    | J1620+4227 | B            |                  | 1800.0       | 22:27  |    | 1.05        |            | 90.3°        |                           |
| 72    |            | R            |                  | 1800.0       | 22:58  |    | 1.10        |            | 90.3°        |                           |
| 75    | J1620+4227 | B            |                  | 1800.0       |        |    |             |            |              |                           |
| 73    | J1620+4227 | B            |                  | 1800.0       | 23:28  |    | 1.15        |            | 90.3°        |                           |
| 76    |            | R            |                  | 1800.0       |        |    |             |            |              |                           |
| 74    | J2223+0137 | B            |                  | 1200.0       | 00:04  |    | 1.65        |            | 140.8°       |                           |
| 77    |            | R            |                  | 1200.0       |        |    |             |            |              |                           |
| 75    | J2223+0137 | B            |                  | 1200.0       | 00:27  |    | 1.54        |            | 146.8°       |                           |
| 78    |            | R            |                  | 1200.0       |        |    |             |            |              |                           |
| 76    | J2223+0137 | B            |                  | 1200.0       | 00:47  |    | 1.45        |            | 140.8°       |                           |
| 79    |            | R            |                  | 1200.0       |        |    |             |            |              |                           |
| 77    | J2240+0053 | B            |                  | 1800.0       | 01:22  |    | 1.40        |            | 157.8°       | SEEING = 1.5" (01:16)     |
| 80    |            | R            |                  | 1800.0       |        |    |             |            |              |                           |
| 78    | J2240+0053 | B            |                  | 1800.0       | 01:53  |    | 1.32        |            | 157.8°       |                           |
| 81    |            | R            |                  | 1800.0       |        |    |             |            |              |                           |

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