




## Sunday, June 29, 2008

Arrived at Raymer, CO site on the Pawnee Grasslands in the afternoon about 6 PM. At 7:06 PM, had the telescope setup and ready to view. A cloudless sky, light wind from the east at sunset, 8:24 PM, sky in west was really red.

Saturn	9:13 PM	9mm. Nice. Shows nice ring shadow on planet surface. Nice sharp image.
		
		Mars is a nice red round disk.
		Jupiter is an orange blob 3 degrees above horizon in east.
NGC 5873	9:56 PM	19mm – Tiny, stellar PN. Responds well to OIII. In a unique star field which nails its position with respect to finder chart. Its very dim and of similar color to those stars around it.
		
PK 303+40.1	10:00 PM	19mm – Tried a second time for this one. Its low in the SW and seeing is not too good down there. Returned to the same star field as before but nothing was there.
PK 318+41.1	10:05 PM	19mm – Tried a second time for this one. Its low in the SW and seeing is not too good down there. Returned to the same star field as before but nothing was there.
Sky is very steady. Seeing is good overhead. A bit soft low in the southern sky.		
M3	10:10 PM	19mm – Nice. Bright. Concentrated. 9mm Awesome view. Nicely fills FOV.
M5	10:13 PM	9mm – Incredible view. Tonight likes this magnification.
NGC 5544 NGC 5545	10:25 PM	19mm – Long cigar shaped. Pretty uniformly lit. Couldn't tell there were 2 galaxies here.
NGC 5394 NGC 5395	10:31 PM	19mm – Bottom galaxy in FOV is a larger oval and has hare brighter center. Above it and at 11 o'clock is a hare brighter (overall) circular galaxy with bright core and bit of halo around it.
		
M108	10:48 PM	19mm – Nice long, linear shaped bright galaxy with nice bright core.

M97	10:48 PM	19mm – Nice wound shape. Responds well to OIII. Dimple eyes not seen tonight.
M109	10:50 PM	19mm – Nice fat, dim oval halo glow with hare brighter nucleus. Dim field star above nucleus and on halo glow.
M51	10:56 PM	19mm – Nice. Some spiral structure seen in arms. Nice and bright.
M90	10:58 PM	19mm – Nice, large, easy to see fat oval shape. Very bright, large core that dims slowly into halo glow.
M63	11:00 PM	19mm – Large tilted oval. Dim halo glow with large, uniformly lit nucleus which is brighter than halo.
Comet 2008/G1	11:08 PM	19mm - Nice. Very dim. Bounded by two field stars with upper field star brighter than lower. Made a sketch of it.
M4	11:09 PM	19mm . Nice. 9mm gives a fantastic view.
M9	11:15 PM	19mm – Small, compact. Dimmer. Member stars not easily seen.
M19	11:17 PM	19mm – Small. Compact. Member stars seen.
M62	11:21 PM	19mm – Larger nucleus that dims slowly into a large, circular glow. Hint of member stars seen.
M6	11:25 PM	19mm – Fills FOV with lots of nice, bright, blue-white stars.
M8	11:30 PM	19mm – Nice. Lots of nebulosity and dark lanes. NGC open cluster next to it on right.
M20	11:30 PM	19mm – Nice. Round nebulosity and dust lanes trisecting it. More fainter nebulosity below it.
M23	11:33 PM	19mm – Lots of blue-white stars fills FOV with nice, tight basically circular grouping of stars.
NGC 6369	11:37 PM	19mm – Small, dim round glow. w/AV see a donut shape like M57. No central star seen. Responds well to OIII and UHC filters. 9mm didn't show it any better.

IC 4634	11:48 PM	19mm – Small, pale blue out-of-focus star. Tiny. Dim. 9mm see a circular halo. Responds well to OIII. Didn't see a central star. Pale blue color. More obvious in OIII filter than without filter.
NGC 6445	11:55 PM	19mm – Large, circular, uniformly lit glow. No central star seen. OIII gives a great view. It appears textured with OIII. UHC not as good of a response. 9mm doesn't add anything. Very faint field star just outside halo glow and at 8 o'clock.
IC 4670	12:09 AM	19mm – Stellar. w/OIII, it shines on and rest of stars in field disappear.
NGC 6309	12:19 AM	19mm – Small, dim, round glow with tiny, dim field star right next to it. w/OIII, thought I saw a central star. OIII nicely makes it stand out. Not so good of a view with UHC. 9mm WOW!!!. This really shows an oval shape and that faint field star just to lower left and near it. Maybe see central star once in a while with OIII filter. Nice.
M2-9	12:51 AM	19mm – Took me a long time to find correct star field but I did. Matched my finder chart exactly. With 9mm, thought I saw a hint of a ghostly glow where it was supposed to be.
NGC 6563	1:06 AM	19mm – Larger, round, <u>dim</u> , uniformly lit glow. Responds well to OIII but not so much to UHC. No central star seen. 9mm doesn't improve view. Stands out in star rich field without filters.
NGC 6565	1:17 AM	19mm – Tiny, brighter. Stellar. Responds well to OIII and UHC. 9mm doesn't show it much better but maybe a bit more halo seen. Looks like an out of focus star. No central star seen because you are seeing all of it.
NGC 6620	1:25 AM	19mm – Small, blue colored, stellar PN. Responds well to OIII and UHC filters. 9mm – can see it has a bit of a halo extendedness to it.

55 degrees. Incredibly steady sky. Calm to light wind from NE once in a while. Transparency good.

NGC 6644	1:34 AM	9mm – Small, bluish like out of focus star. Pretty much stellar. Responds well to OIII and UHC filters.
IC 4732	1:39 AM	9mm – Small. Stellar. Like out of focus star. Blue in color. Responds well to OIII and UHC. OIII made it star right out.



NGC 6629	1:43 AM	9mm – Small oval disk. Good response to OIII where you can see a faint central star in center of halo glow. UHC shows it nicely also. Off white in color.
IC 4776	1:51 AM	9mm – Small stellar PN. Like out of focus star. Responds well to OIII and UHC filters. Seeing not so good this far south though.
NGC 6578	1:59 AM	9mm – Stellar. Responds well to OIII. Rest of star in FOV disappear with this filter while PN stays.
NGC 6537	2:05 AM	9mm – Stellar in appearance. Responds well to OIII and UHC filters.
NGC 6567	2:10 AM	9mm – Shows a stellar, out of focus like PN. Responds well to OIII.

Jupiter was incredible. See Io on disk easily. Nice contrast. Its shadow is following it. Lots of nice red bands seen. Great view of this.

NGC 2276 NGC 2300	2:36 AM	19mm – Small, dim oval glow with 2 hare brighter nucleuses next to each other as seen with AV.
IC 4846	2:46 AM	19mm – Stellar. Blinks nicely with OIII. Strong response to OIII. UHC shows it nicely also when using the blinking technique.

It was a great night on the prairie. Moon rose about 2:30 AM and was low in the NE. Slender crescent. It was nice to be out for once and not have it get cold. Had to put a jacket on. While looking for the 2276-2300 galaxies, I started at Polaris. While there, I saw a extremely faint satellite, maybe 15<sup>th</sup> mag, go past the star. It was so faint, it was almost not there. I also saw a few nice meteors tonight.