

Object Check Off Sheet

Name: Brian York

Date Completed (Basic) 11/24/06 (86)

(Advanced) ★ 2/5/08 (24)

Objects in right ascension order:

Object	Date Observed	Object	Date Observed
✓ NGC 40	10/17/03	✓ NGC 6153	5/29/06
✓ NGC 246	10/15/03	✓ NGC 6210	9/18/06
✓ M76 (NGC 650-1)	12/25/05	✓ IC 4634	9/19/06
✓ IC 1747	★ 7/15/07	✓ M2-9	9/18/06
✓ Abell 4	★ 10/9/07	✓ NGC 6302	5/29/06
✓ IC 289	★ 3/11/05	✓ NGC 6309	6/18/06
✓ NGC 1360	12/3/04	✓ NGC 6337	6/18/06
✓ IC 351	★ 10/9/07	✓ NGC 6369	7/23/03
✓ IC 2003	★ 10/9/07	✓ NGC 6445	6/19/06
✓ NGC 1501	12/30/05	✓ IC 4670	6/21/06
✓ NGC 1514	★ 3/11/05	✓ NGC 6543	9/18/06
✓ NGC 1535	12/25/05	✓ NGC 6537	6/19/06
✓ Sh 2-216	★ 10/9/07	✓ NGC 6565	6/19/06
✓ J 320	★ 1/11/08	✓ NGC 6563	6/19/06
✓ IC 418	3/25/06	✓ NGC 6572	6/24/06
✓ NGC 2022	12/24/03	✓ NGC 6567	6/19/06
✓ IC 2149	★ 4/20/07	✓ NGC 6578	6/19/06
✓ IC 2165	3/25/06	✓ NGC 6620	6/19/06
✓ Jonckheere 900	★ 10/10/07	✓ NGC 6629	7/24/03
✓ M1-7	★ 10/10/07	✓ NGC 6644	6/19/06
✓ NGC 2346	★ 3/16/07	✓ IC 4732	6/21/06
✓ NGC 2371-2	3/19/04	✓ IC 4776	6/20/06
✓ Abell 21	★ 1/11/08	✓ M57 (NGC 6720)	9/19/06
✓ NGC 2392	12/25/05	✓ IC 1295	6/21/06
✓ NGC 2438	3/24/06	✓ NGC 6742	6/20/06
✓ NGC 2440	3/28/04	✓ Sh 2-71	9/19/06
✓ NGC 2452	3/24/06	✓ NGC 6741	6/21/06
✓ JnEr 1	★ 4/16/07	✓ NGC 6751	6/21/06
✓ NGC 2610	★ 4/16/07	✓ NGC 6765	9/19/06
✓ M3-6	★ 2/2/08	✓ IC 4846	6/21/06
✓ NGC 2818	★ 2/2/08	✓ IC 1297	6/21/06
✓ NGC 3132	3/11/04	✓ NGC 6778	6/21/06
✓ NGC 3242	★ 3/9/04	✓ NGC 6781	6/25/06
✓ M97 (NGC 3587)	4/21/06	✓ NGC 6790	6/25/06
✓ NGC 4361	4/21/06	✓ Vy 2-2	6/25/06
✓ IC 3568	★ 4/16/07	✓ NGC 6803	6/24/06
✓ Abell 35	★ 4/16/07	✓ NGC 6804	6/25/06

Object	Date Observed	Object	Date Observed
✓ Abell 36	5/19/06	✓ IC 4997	9/22/06
✓ NGC 5873	5/29/06	✓ NGC 6905	11/23/06
✓ NGC 6026	5/29/06	✓ NGC 7008	9/20/03
✓ NGC 6058	5/13/06	✓ NGC 7009	9/23/06
✓ IC 4593	5/28/06	✓ NGC 7026	11/22/06
✓ NGC 6072	5/29/06	✓ NGC 7027	11/23/06
✓ NGC 6807	6/25/06	✓ Sh 1-89	11/23/06
✓ BD+30 3639	9/23/06	✓ NGC 7048	11/23/06
✓ NGC 6818	6/21/06	✓ Pease 1	9/22/06
✓ NGC 6826	6/20/06	✓ IC 5117	11/23/06
✓ NGC 6833	11/22/06	✓ Hu 1-2	11/23/06
✓ M27 (NGC 6853)	6/25/06	✓ NGC 7094	9/22/06
✓ NGC 6884	11/23/06	✓ IC 5217	★ 7/9/17
✓ NGC 6879	9/19/06	✓ NGC 7293	9/23/06
✓ NGC 6881	9/24/06	✓ NGC 7354	★ 7/7/17
✓ NGC 6886	9/20/06	✓ NGC 7662	10/14/03
✓ NGC 6891	9/19/06	✓ Jones 1	★ 7/9/17
✓ NGC 6894	9/24/06	✓ Abell 82	★ 7/15/17

The four proto-planetary nebula challenges:

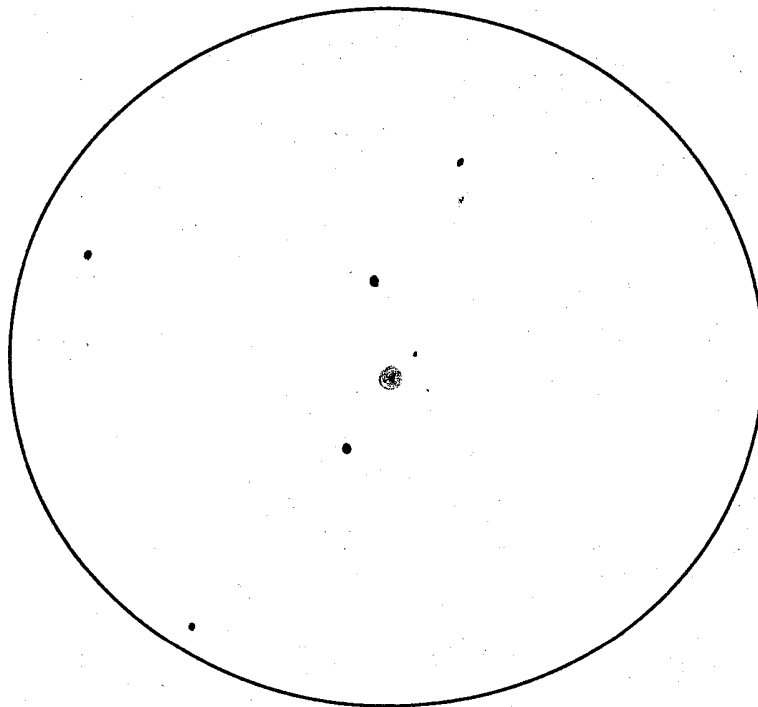
Object	Date Observed
✓ CRL 2688	★ 7/9/17
✓ IRAS 18059-3211	★ 7/9/17
IRAS 09371+1212	
✓ M1-92	★ 7/9/17

CROWELL 2

DATE 10/17/3 TIME 10:20 CST CDT CLARITY I 0 II IV V SEEING I 0 II III IV V

INSTRUMENT ETX-125 10x50 EYE POWER 10X 73X 153X 475X

OBJECT Mbc 40 LOCATION RMCO HOME whf filter



Bottle +4
125mm f/15
D-A? No
21d D not up
Direct vision
73x didn't
show disk

Wonderful - very easy c.s. & bluish misty
and haze, with great field.

Planetary Nebula Club Observing Log

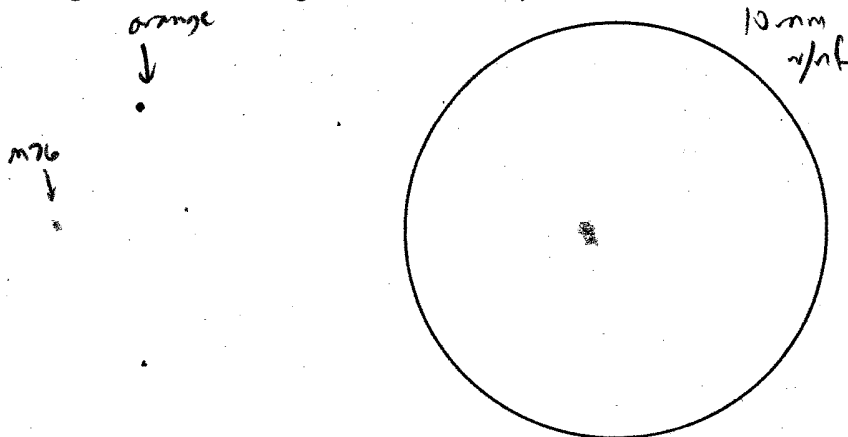
Observer's name: Brad Young

Object: <u>M76</u>	Location: <u>Home</u>
Date: <u>12/25/05</u>	Time: <u>11:00 PM CST</u>
Seeing: <u>3</u>	Transparency: <u>3</u>
Darkness of the site: <u>Bortle +8</u>	Moon phase: <u>NOT UP (22d)</u>
Aperture and focal ratio: <u>125mm f/15</u>	Magnification(s) used: <u>47x, 190x</u>
Device-aided? <u>No</u>	Color(s) seen: <u>NONE</u>
Filters used: <u>Nebular broadband</u>	Is filter required to detect the PN? <u>NO</u>
Is the central star visible? <u>No</u>	Direct or averted vision? <u>AV HELPS</u>

How does the planetary respond to different magnifications?

"TIGHTENS" UP & IS MORE COHESIVE. FILTER
DEFINITELY HELPS, ESP. HERE IN CITY

Description: (Sketch is optional unless a negative observation.)



Not much detail,
elongated glow
that just hints
at double lobe
amorphous shape
in 47x view now
more cohesive.

Morphological Class = Bi-polar
V-V = 3

Planetary Nebula Club Observing Log

Observer's name: _____

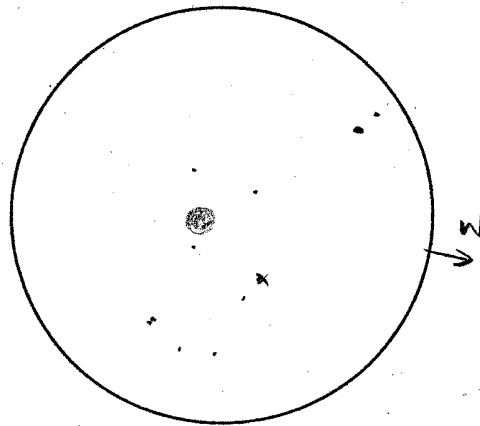
B. Young

Object: NGC 1501	Location: RMCC
Date: 12/30/05	Time: 10:30 CST
Seeing: 4	Transparency: 4
Darkness of the site: Bortle +4	Moon phase: 0d
Aperture and focal ratio: 304mm f/5	Magnification(s) used: 150x
Device-aided? NO (+ NO FINDER!)	Color(s) seen: Blue-grey
Filters used: Neb broadband	Is filter required to detect the PNP? NOT AT ALL!
Is the central star visible? NO	Direct or averted vision? DIRECT - USE AV FOR DETAILS

How does the planetary respond to different magnifications?

Description: (Sketch is optional unless a negative observation.)

Esp. w/rt - seems to be a hole or holes in a knotty shape inside pale blue-grey disk very easy to see, even w/ 40mm & no filter. No CS, great detail.



Note: UV Cam on way

A.
C.
B.
UV > C > B & orange
A! 0.1 2 orange

Observing Log

Object type: Open Cluster

Born 0000
& PDC!

Object ID: M47/2438

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B. Yant

Date 3/24/6

Time 9:40 CST

Location RMCC - B-4

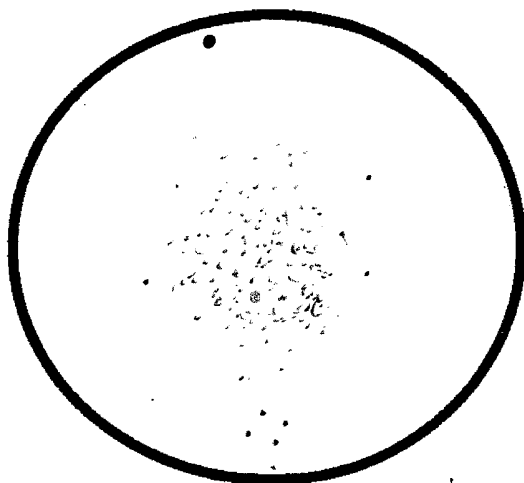
Seeing I Transparency II

Instrument XT12

Size 12

Eyepiece 42

Field of view _____ Power 38



D=24d (not up)

- Can this cluster be easily distinguished from the background stars? Yes
- What is the overall shape of the object? Round
- How many stars can you count in the cluster? > 100
- Are the stars more concentrated in any one particular area? No
- Is this cluster resolved fully or is there some background nebulosity noticed?
- Is there any particular area where you notice an absence of stars in this cluster? No
- Are there any particularly bright stars involved in this cluster? If so, do they show any colors? No
- Are there any other deep-sky objects in the same field of view? If so, what? Yes

Description NBC 2438 obvious as small round glow on N side
No C.S., direct vision, D-A = 10
No filter used

Observing Log

Object type: Planetary Nebula

Object ID: NLE 2440

Const.: Pup

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 3/19/4

Time 8:20pm

Location RMCE

Seeing 2 Transparency 5

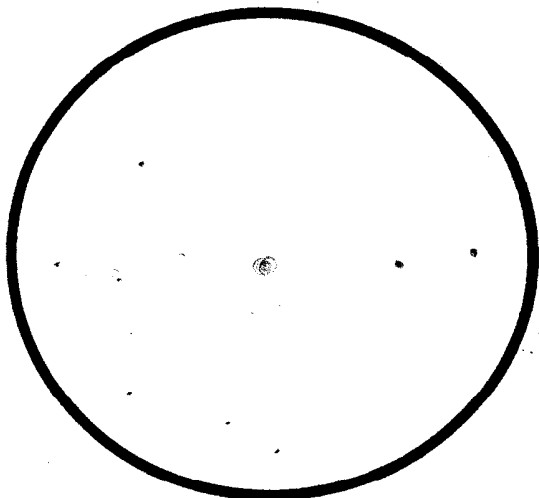
Instrument ETX125

Size 125

Eyepiece 12.4

Field of view _____ Power 103x

tnf



- What is the overall shape? oval
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? grey
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges? as?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? Nb

Description NLE field & stars around it

MAY WANT TO REVISIT - EXTREMELY WINDY & HARD
TO CONCENTRATE ON IT

HERSCHEL OBSERVATIONS

NGC 7477		SITE 02	SEEING II	TRANS II
CONST		INSTR 25	EYEPIECE 26	POWER 110
		COMMENTS		
		FILL FIELD - SOME REDS		
DATE 5/26/9				
TIME 7:20				
NGC 3242		SITE 02	SEEING II	TRANS II
CONST		INSTR 25	EYEPIECE 7mm	POWER 400
		COMMENTS		
		WOW UNBELIVABLE 3D DETAIL THAT CANNOT BE DRAWN + BLuish-GREEN COLOR		
DATE 5/26/9				
TIME 7:30				
NGC 2818+2N		SITE 02	SEEING II	TRANS II
CONST		INSTR 25	EYEPIECE 26	POWER 110
		COMMENTS		
		Reminds me of M46		
DATE 5/26/9				
TIME 7:45				
NGC 2913A		SITE 02	SEEING II	TRANS II
CONST		INSTR 25	EYEPIECE 7mm	POWER 400
		COMMENTS		
		Cool PN - some detail seen		
DATE 5/24/9				
TIME 7:45				

C71

C59
STC

PNOCC

Observing Log Object type: Planetary Nebula

Object ID: M97

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B. Yant

Date 4/21/6

Time 10:50 CDT

Location RMCC B = +4

Seeing II Transparency II

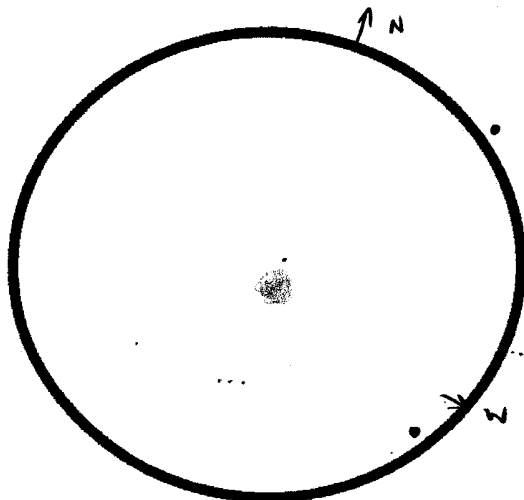
Instrument XT-12

Size 12" f/5

Eyepiece 2x

Field of view _____ Power 60

D=23d (not up)



- What is the overall shape? Round
- Is this planetary easy or difficult to identify in your field? direct vision, D-A = no
No CS
- What is the color of this planetary? Pale grey
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or a bit diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power field of view, etc.)? 37x didn't bring out any detail
- Are there any other deep-sky objects in the same field of view? If so, what? No. + @ 25mm w/ 42mm (37x) M108 B

Description Easy to find - always a great sight
Hints of one "eye"

Observing Log

Object type: Planetary Nebula

PNoc

Object ID: N7c 4361

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B. Yount

Date 4/21/06

Time 11:20 COT

Location RMCC

Seeing II Transparency II-

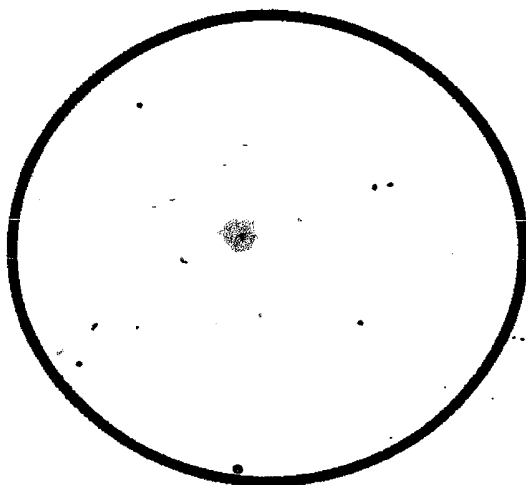
Instrument XT-12

Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150X

D=23d (not vp)



- What is the overall shape? Round
- Is this planetary easy or difficult to identify in your field? even @ 37X!
- What is the color of this planetary? None
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges? w/cs
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description C.S. seen easily w/direct vision D-A=no

PNOC

Observing Log

Object type: Planetary Nebula

Object ID: Abell 36

Const.: Vir

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B Young

Date 5/19/8

Time 11:20 CDT

Location RMCC B-4

Seeing II- Transparency II-

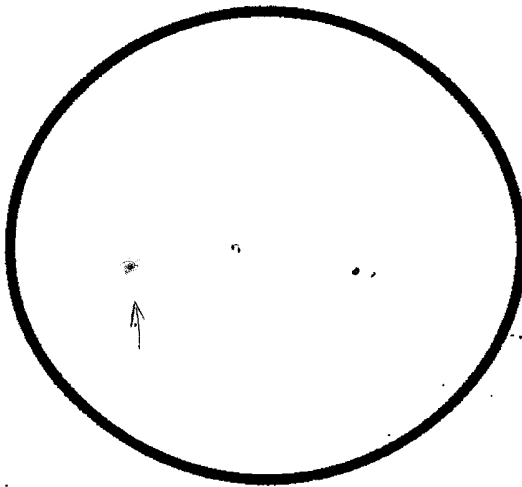
Instrument XT-12

Size 12" F/5

Eyepiece 42

Field of view _____ Power 36

D=21d (not up)



- What is the overall shape? Roundish
- Is this planetary easy or very difficult to identify in your field?
- What is the color of this planetary? None
- Is it disk-shaped or is it more almost stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)? ?
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description Very dim, difficult to see glow around
11m CS w/ averted vision
could not push power! D-A=200

COPY FOR
H2

PNOC

Observing Log

Object type: Planetary Nebula

Object ID: NKC 6058

Const.: CrB

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B. Young

Date 5/13/6

Time 10:45 CDT

Location RMCC

Seeing II Transparency I - (+)

Instrument 8X125

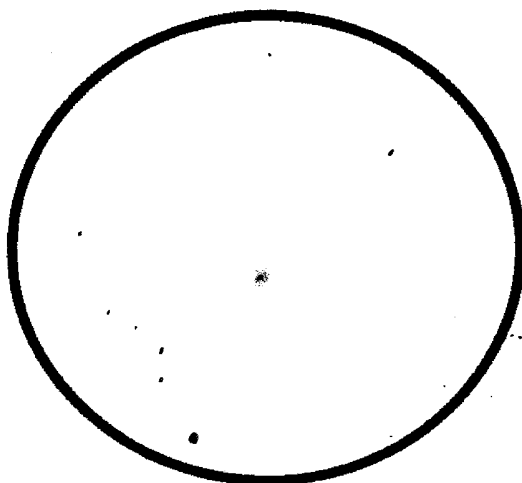
Size 125 mm f/15

Eyepiece 2X

Field of view _____ Power 73

HNBF

D = 152 (low m 56)



- What is the overall shape? Round
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? —
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges? Cs strong
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No Deneb

seen direct vision
D-A = no
power req'd

Description _____

Observing Log

Object type: Planetary Nebula

PNOc

Object ID: NGC 6210

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B. Young

Date 9/18/6

Time 10:45 CDT

Location ANCH B = +1

Seeing I Transparency I

Instrument V12

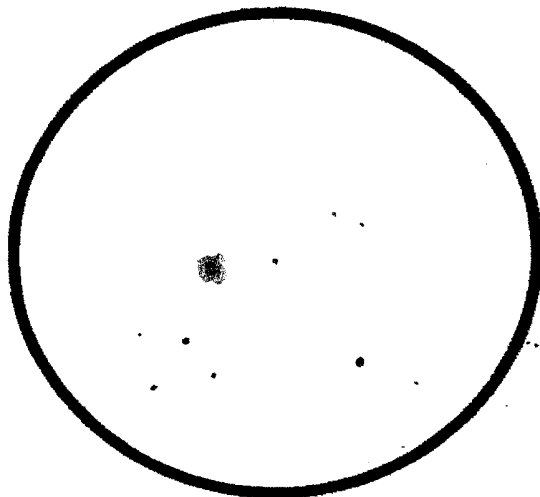
Size 12" f/5

Eyepiece 19mm ortho

Field of view _____ Power 150

w/WBF

D = 25d (not up)



- What is the overall shape? Round
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? blue-green
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse? nd it w/WBF only
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

Not seen 37x
D-A = no
direct vision
No C.S.

Description _____

PNOc

Observing Log

Object type: Planetary Nebula

Object ID: Nbc 6543 "Chrysos"

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B York

Date 9/18/6

Time 11:18 CDT

Location Rancho B = +1

Seeing I Transparency I

Instrument X72

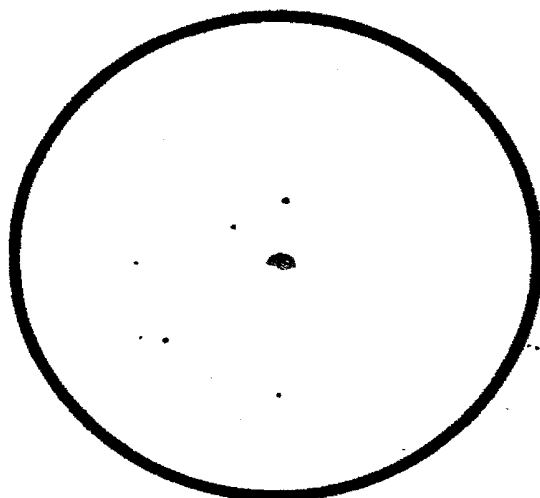
Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150X

w/wBF

D=25d (not up)



- What is the overall shape? Oblong
- Is this planetary easy or difficult to identify in your field? Easy
- What is the color of this planetary? Blue
- Is it oblong disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or sk diffuse?
- Is the center brighter, 31 darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

Needs 150x
Filter helps
direct vision
D-A = no
No cis.

Description On way to Comet 177P/Barnard

Observing Log

Object type: Planetary Nebula

PNOC

Object ID: M57

Const.: Lyr

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B Young

Date 9/19/6

Time 12:45 CDT

Location RANCH Barile = +1

Seeing I Transparency I

Instrument XT12

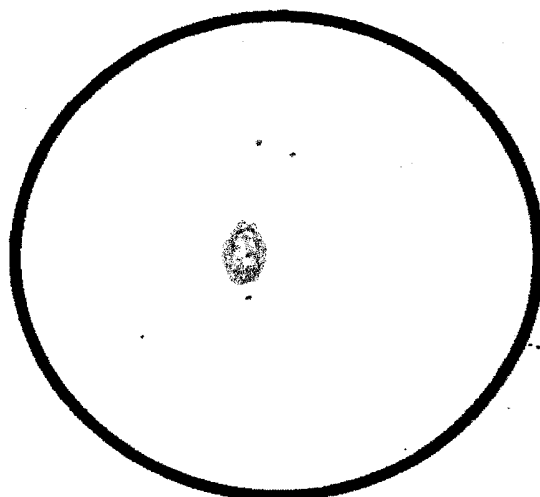
Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150X

WBE

D=262 (not up)



- What is the overall shape? oval
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? bluish
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

Direct vision

D-A=no

Easily seen 36x

Description Determine feature - no cs

Observing Log

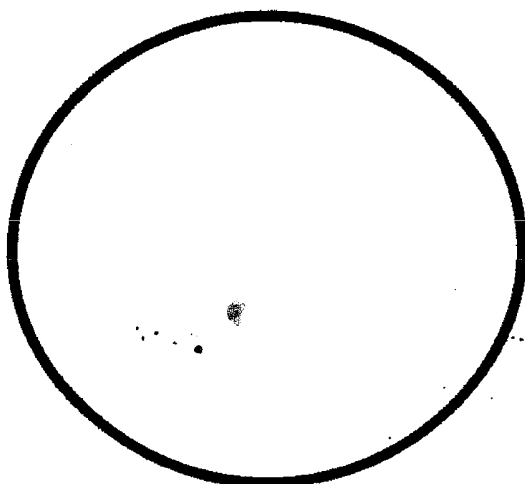
Object type: Planetary Nebula

Object ID: N6C 6742

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____



Observer B Young

Date 6/20/6

Time 10:55

Location RMCC B = +4

Seeing II Transparency II

Instrument X12

Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150x

w/ W BNT

D = 232 (not up)

- What is the overall shape? Dish
- Is this planetary easy or diff difficult to identify in your field?
- What is the color of this planetary? grey
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)? DV - better than not
- Are there any other deep-sky objects in the same field of view? If so, what? No

Not visible 36x
Direct vision
D-A = no
No C.S.

Description _____

The Herschel Objects

OBSERVATION

COPY FOR PNO



NOCC - H 0735	SEA. GP. - PG	RIGHT ANGLE COORD. - CONSTEL.		TIME 3:30	DATE 6/21/6
SEKING II	TRANSPARENCY II	INSTRUMENT XT-12	EYEPIECE - POWER 42 37	OBSERVING SITE RMCC	
DRAWING			COMMENTS		
			12 "bees" + unresd here cool 161 ↓ ↓ ↓ WHY NOT OCOC?		

NOCC - H 6741	SEA. GP. - PG	RIGHT ANGLE COORD. - CONSTEL.		TIME 3:40	DATE 6/21/6
SEKING II	TRANSPARENCY II	INSTRUMENT XT-12 9/5	EYEPIECE / POWER 10mm 150 X	OBSERVING SITE RMCC B=+4	
DRAWING			COMMENTS		
			W/WONE I DON'T SEE ANNULUS BUT DISC IS APPARENT - SL. BLUE, W/STAR ON W. EDGE ALIGHT NO C.S.I., not seen 36x Direct vision D.A. = No 3:36:40 SAT! = 15244 NEW 150X LENSAT 2 PNO		

PNOE

Observing Log

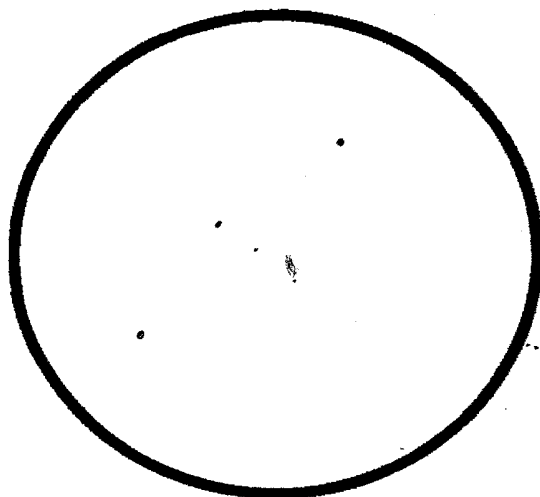
Object type: Planetary Nebula

Object ID: NbC 6765

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B. YantDate 9/19/6Time 11:20 CSTLocation RMCCSeeing I Transparency IInstrument XT12Size 12" f/5Eyepiece 10mmField of view _____ Power 150XWBFD=262 (not up)

- What is the overall shape? Elongated
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? None
- Is it disk-shaped or is it more stellar in appearance? Elongated
- Are the edges of the disk fairly sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

Not seen 36x
 No C.S., filter req'd
 D-A = no, direct vision

Description M56 seen just before @ 36x - just glimpses
of resolution on edges of great glob

Observing Log

Object type: Planetary Nebula

Object ID: BD+30 3639

Const.: Cyg

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B Yant

Date 9/23/6

Time 10:50 CDT

Location RNCC B = +4

Seeing II Transparency I-

Instrument XT-12

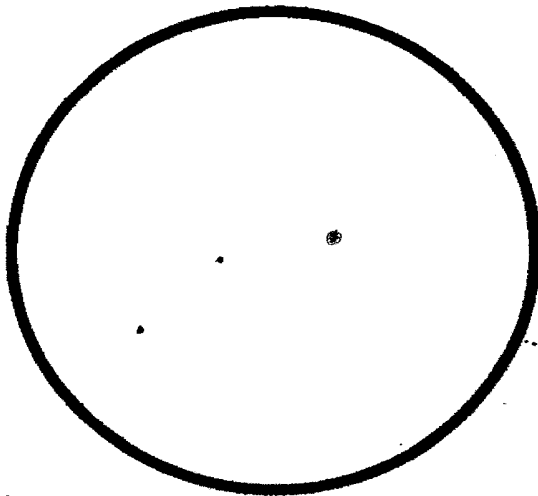
Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150x

No FILTER

D=0.2



- What is the overall shape? Round
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? Reddish
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

Not seen 36x

D-A=no

Use AV

Filter no help

Description Does blink-cs easy but hard hard WDF no help
Use AV for help

Observing Log

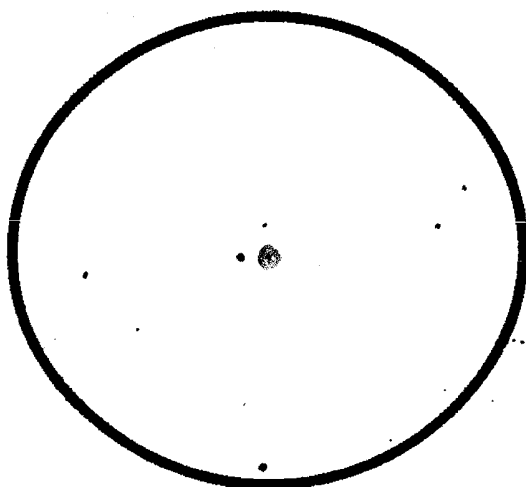
Object type: Planetary Nebula

Object ID: NGC 6826

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____



Observer B Young

Date 6/20/6

Time 10:35

Location AMCE B = +4

Seeing II Transparency II

Instrument XT-12

Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150X

w/WBPR

D=23d (not up)

- What is the overall shape? Oval
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? bluish
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges? Cs - exp. w/ DV
- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? M₃ but 16 is

DV for c.s.
AV for blink disk
D-A = no
Filter req'd
Not good w/36x

Description BLINKS! Wow what an amazing sight.

wonderful orange disk

Observing Log

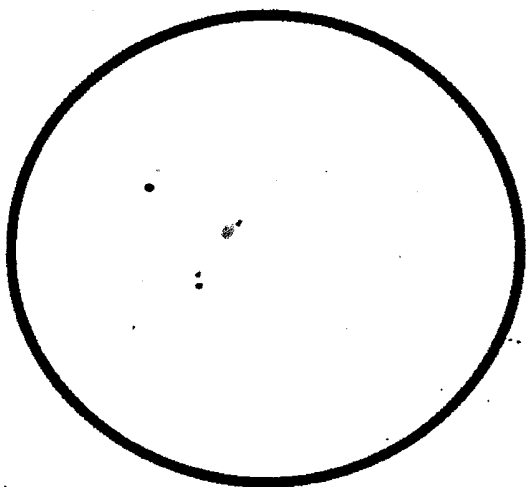
Object type: Planetary Nebula

Object ID: NLC 6833

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____



Observer B YOUNG

Date 11/22/6

Time 10:00

Location RMCC B=+4

Seeing II Transparency I

Instrument XT-12

Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150x

WBNF

D=1.2

- What is the overall shape? Round
- Is this planetary easy or difficult to identify in your field? SMALL
- What is the color of this planetary? BLW3h
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? N6

Not seen 36x
direct vision
D-A=no
Use Filter
no cs

Description _____

Observing Log

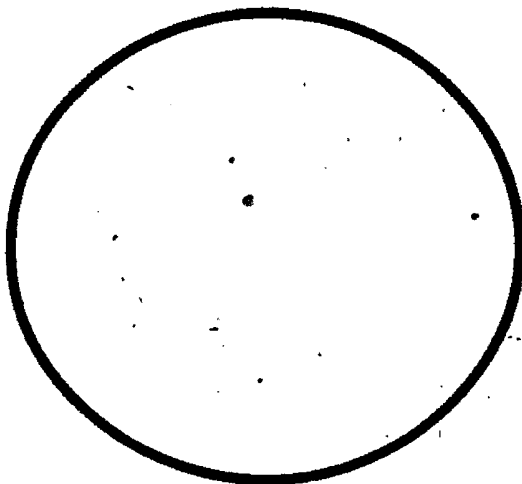
Object type: Planetary Nebula

Object ID: NGC 6884

Const.: Cyg

RA: _____ Dec.: _____

Mag: _____ Size: _____



Observer B Young

Date 11/23/6

Time 9:00 CST

Location RMCC B=+4

Seeing II- Transparency II

Instrument XT-12

Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150x

WBNF

D=21

- What is the overall shape? stellar
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? None
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No, but see Cyg nearby

Not seen 36x
Use filter
direct vision
D-A = 0.0
No CS

Description _____

Observing Log

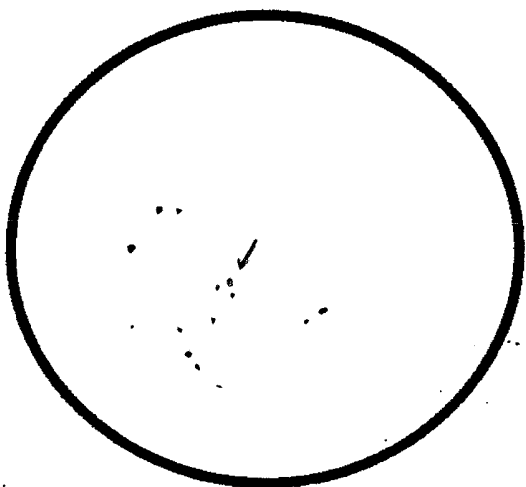
Object type: Planetary Nebula

Object ID: NGC 6881

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____



Observer B Young

Date 9/24/6

Time 12:55 CDT

Location RMCC B = +4

Seeing II Transparency I-

Instrument XT 12

Size 12" f/5

Eyepiece 10 mm

Field of view _____ Power 180X

WBF

D = 12

- What is the overall shape? Tiny
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? None
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

Not seen 36x
Use AV
D-A = no
no C.S.

Description So small! but seen, esp. w/AV

Observing Log

Object type: Planetary Nebula

PNOB
RGB

Object ID: NGC 6894

Const.: Cyg

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B Young

Date 9/24/6

Time 1105 CDT

Location RMCC B=+4

Seeing II Transparency I-

Instrument XT-12

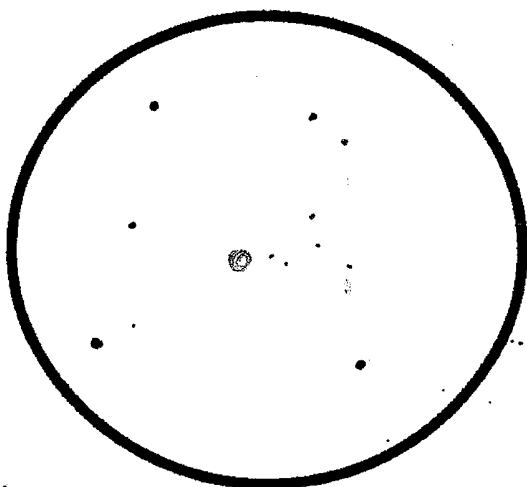
Size 12" f/5

Eyepiece 10 mm

Field of view _____ Power 150x

WBP

D=1d



- What is the overall shape? Disk
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? grey
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

Not seen 36x
Not sure C.S.
Direct vision
D-A = no

Description cs? hard to confirm.

Observing Log

Object type: Planetary Nebula

Object ID: N6c 7008

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 9/20/13

Time 12:10 CDT

Location RMce B=+4

Seeing 9 Transparency 6

Instrument ETX-125

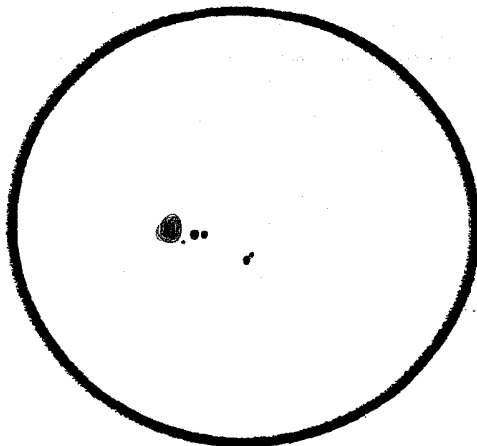
Size 125 mm f/15

Eyepiece 12.4 mm

Field of view _____ Power 153x

W/N.E.

D=24d (not up)



- What is the overall shape? Oval - drawn to double double No c.s.
- Is this planetary easy or difficult to identify in your field? So easy! Direct vision
- What is the color of this planetary? Pale silver-gray D-A=no
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges? Hard to tell w/c.s. there
- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description _____

Observing Log

Object type: Planetary Nebula

Object ID: N6C 7026

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B YOUNG

Date 11/22/6

Time 10:30

Location MCC B=+4

Seeing II Transparency I-

Instrument X12

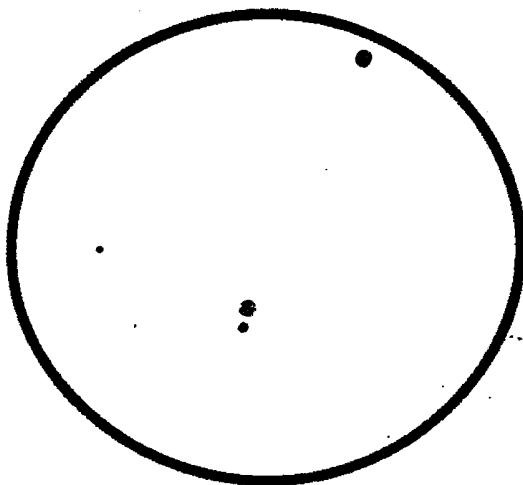
Size 12" f/5

Eyepiece 10 mm

Field of view _____ Power 150X

WBNF

D=1d



- What is the overall shape? 2 bars?
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? Bluish gray
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

No C.S.
Direct vision
D-A=no
Use filter
No detail @ 36x

Description Definite "split" in middle - not sure I saw a
dark lane

Observing Log

Object type: Planetary Nebula

Object ID: NGC 7027

Const.: Cygn

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B Young

Date 11/23/6

Time 9:10

Location RMCC B=+4

Seeing A- Transparency II

Instrument XT12

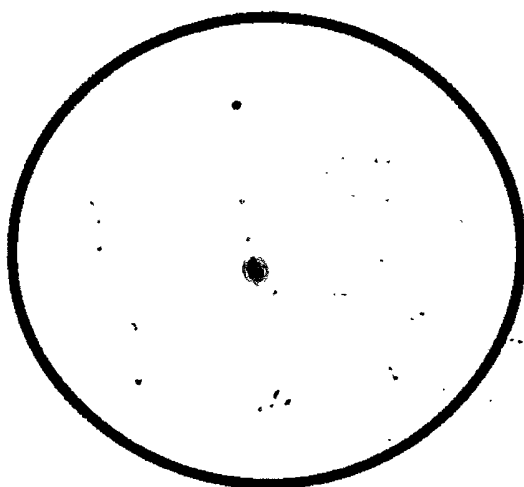
Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150X

WBNF

D=2d



- What is the overall shape? Rectangle
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? Bluish
- Is it disk-shaped or is it more stellar in appearance? Squarish
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges? but AV → "shell", sl. darker
- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

36x not good -
use power
AV brings out
shell
Filter req'd
D-A=no

Description Very interesting sight

Observing Log

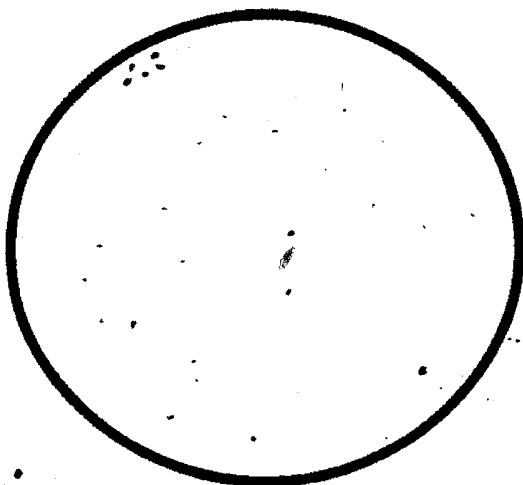
Object type: Planetary Nebula

Object ID: Sh 1-89

Const.: Cygn

RA: _____ Dec.: _____

Mag: _____ Size: _____



Observer B YOUNT

Date 11/23/6

Time 8:10 CST

Location RMCC B=+4

Seeing II Transparency II

Instrument XT-12

Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150X

UBWF

D=2d

- What is the overall shape? Swoosh
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? None
- Is it disk-shaped or is it more stellar in appearance? a swoosh nebula-like
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)? & A.V.
- Are there any other deep-sky objects in the same field of view? If so, what? No, but IC 1369 on way here

Not seen 36x
Use averted vision
D-A = no
Use filter
No c.s.
nebula-like

Description _____

Observing Log

Object type: Planetary Nebula

Object ID: NGC 7048

Const.: Cygn

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B. Young

Date 11/23/16

Time 9:35

Location RMCC B = +4

Seeing II- Transparency II

Instrument XT12

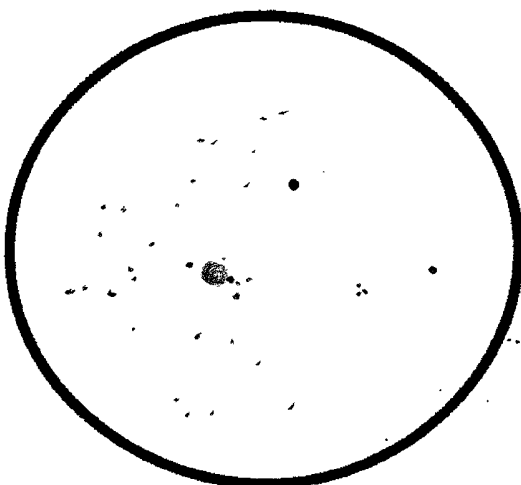
Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150X

WBAF

D=2d



- What is the overall shape? Oval
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? Gray
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk fairly sharp or diffuse?
- Is the center brighter, sl. darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

Not seen 36x
Direct vision
D-A = no
No C.S.

Description _____

Observing Log

Object type: Planetary Nebula

Object ID: IC 5117

Const.: Cyg

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B. Young

Date 11/23/6

Time 9:50

Location ANCC B=+4

Seeing II- Transparency II

Instrument XT 12

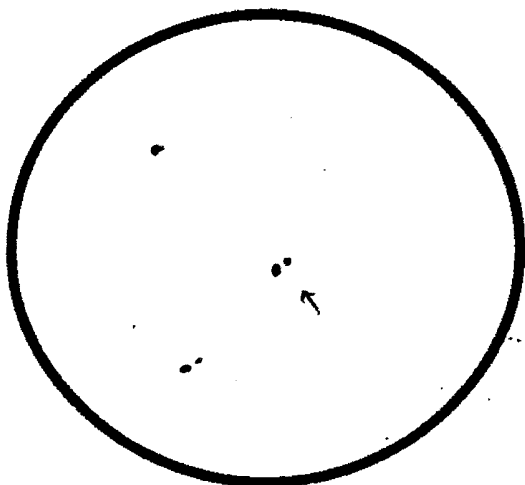
Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150X

W/ w/o WBF

D=2d



- What is the overall shape? Stellar
- Is this planetary easy or difficult to identify in your field? Blink it - it will disappear when you take off filter till your eye "adjusts"
- What is the color of this planetary? None
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)? Direct vision D-A=no Not seen 36x
- Are there any other deep-sky objects in the same field of view? If so, what? No No C.S.

Description _____

Observing Log

Object type: Planetary Nebula

Object ID: Hu 1-2

Const.: Cygnus

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B. Yant

Date 11/23/16

Time 8:00

Location RMCC B=+4

Seeing II- Transparency II

Instrument XT12

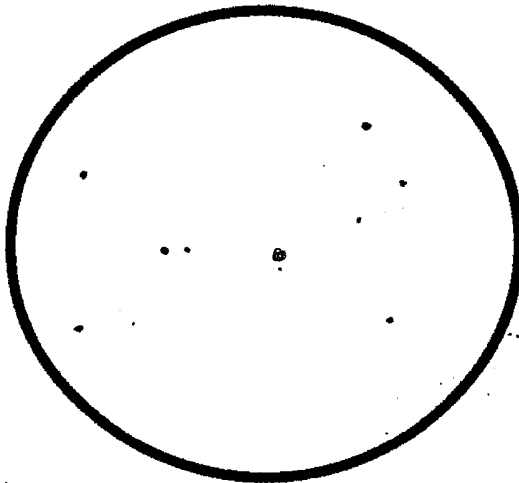
Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150X

WBMF

D=2d



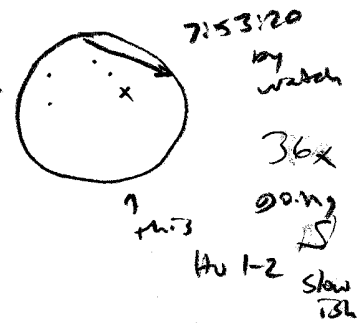
- What is the overall shape? Dish
- Is this planetary fairly easy or difficult to identify in your field?
- What is the color of this planetary? B/ish
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

Not seen 36x

Use filter

Direct vision

No c.s.



Description _____

Observing Log

Object type: Planetary Nebula

CARDWELL
22

Object ID: N6C 7662

Const.: And

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 10/14/3

Time 20:10

Location Home B = +8

Seeing X II Transparency X II -

Instrument ETX-125

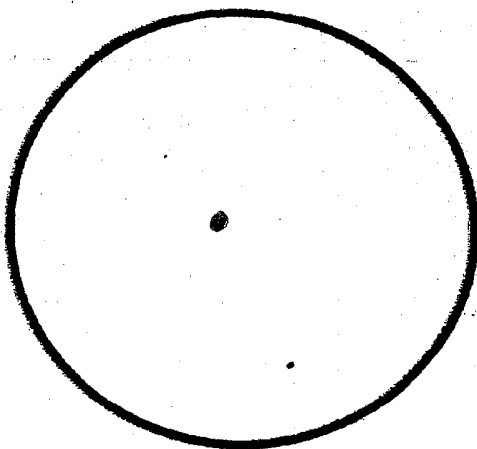
Size 125mm f/15

Eyepiece 12.5mm

Field of view _____ Power 153x

w & w/o n.f.

D = 18d (not up)



- What is the overall shape? Round
- Is this planetary easy or difficult to identify in your field? even 47x
- What is the color of this planetary? Bluish w/o n.f., none w/n.f.
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or Mod. diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)? Easy
- Are there any other deep-sky objects in the same field of view? If so, what? No

No detail 47x,
but seen
Filter "kills"
blue color
D-A = no
no C.S.

Description _____

Planetary Nebula Club Observing Log

Observer's name: B. Young

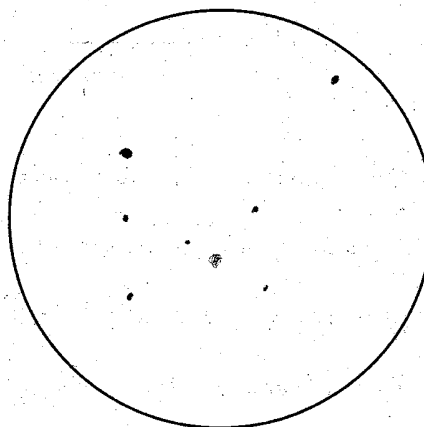
Object: <u>IC1747</u>	Location: <u>Adams Ranch</u>
Date: <u>7/15/17</u>	Time: <u>2:00 AM</u>
Seeing: <u>II</u>	Transparency: <u>II</u>
Darkness of the site: <u>B+1</u>	Moon phase: <u>NEW</u>
Aperture and focal ratio: <u>12" f/5</u>	Magnification(s) used: <u>150x</u>
Device-aided? <u>NO</u>	Color(s) seen:
Filters used: <u>O3</u>	Is filter required to detect the PN? <u>Helps a lot</u>
Is the central star visible? <u>NO</u>	<u>Direct</u> or averted vision?

How does the planetary respond to different magnifications?

Don't see it

Description: (Sketch is optional unless a negative observation.)

Very small, ghostly
and dim, only 1
lobe for me



Planetary Nebula Club Observing Log

Observer's name: B Young

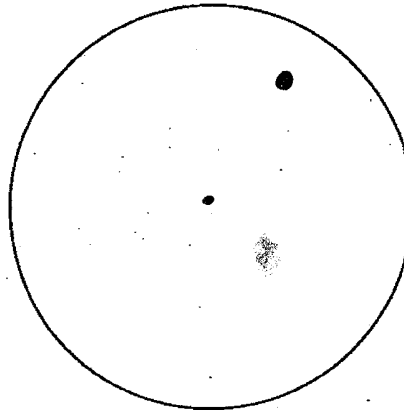
Object: <u>Abell 4</u>	Location: <u>A R</u>
Date: <u>10/9/7</u>	Time: <u>10:30</u>
Seeing: <u>E-</u>	Transparency: <u>II</u>
Darkness of the site: <u>B1</u>	Moon phase: <u>-</u>
Aperture and focal ratio: <u>12" f/5</u>	Magnification(s) used: <u>150x</u>
Device-aided? <u>No</u>	Color(s) seen: <u>None</u>
Filters used: <u>03</u>	Is filter required to detect the PN? <u>Yes</u>
Is the central star visible? <u>No</u>	Direct or <u>averted</u> vision?

How does the planetary respond to different magnifications?

Didn't push power

Description: (Sketch is optional unless a negative observation.)

Very large, faint and



Observing Log

Object type: Planetary Nebula

FN6C 10

Object ID: IC 289 (Cas)

COPY FOR
PNOG

Const.: _____

Observer B Y

RA: _____ Dec.: _____

Date 3/11/5

Mag: _____ Size: _____

Time 8:40 CST

Location UNCE BORTCH=4

Seeing III Transparency I-

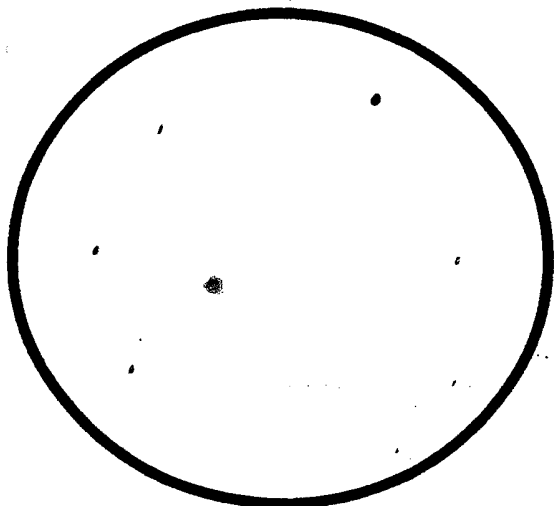
Instrument ETX

Size 125mm F/15

Eyepiece 12.4mm

Field of view _____ Power 153x

W/F



- What is the overall shape? Round
- Is this planetary easy or difficult to identify in your field?

- What is the color of this planetary? Bluish
- Is it disk-shaped or is it more stellar in appearance?

- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?

- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)? plutance
- Are there any other deep-sky objects in the same field of view? If so, what? No

MOON = 0d

O-A = No

Filter (WB) req'd

CS, visible

AV brings out glow of disk

Description Blinker - cs star seems brighter than ~15"-30"

ghostly round glow

V-V=2A M=1

Planetary Nebula Club Observing Log

Observer's name:

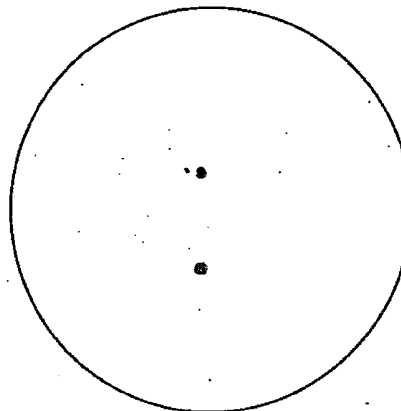
Brad Young

Object: IC 351	Location: Adams Ranch
Date: 10/9/17	Time: 11:15
Seeing: II	Transparency: II-
Darkness of the site: D1	Moon phase: -
Aperture and focal ratio: 12" f/5	Magnification(s) used: 37x, 150x
Device-aided? NO	Color(s) seen: -
Filters used: 03	Is filter required to detect the PN? Yes
Is the central star visible? NO	Direct or averted vision? Direct

How does the planetary respond to different magnifications?

Needs 150x

Description: (Sketch is optional unless a negative observation.)



Planetary Nebula Club Observing Log

Observer's name:

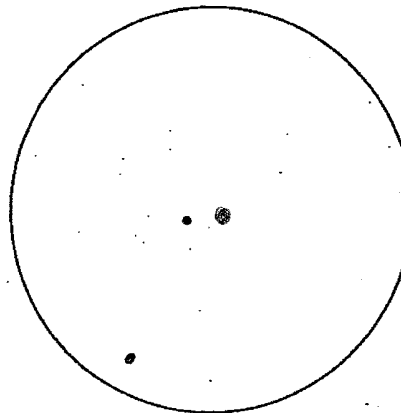
B. Young

Object: IC 2003	Location: Adams Ranch
Date: 10/9/17	Time: 11:00
Seeing: E-	Transparency: II
Darkness of the site: B1	Moon phase: -
Aperture and focal ratio: 12" f/5	Magnification(s) used: 150x
Device-aided? No	Color(s) seen: -
Filters used: O3	Is filter required to detect the PN? No
Is the central star visible? No	Direct or averted vision? Direct

How does the planetary respond to different magnifications?

High power req'd

Description: (Sketch is optional unless a negative observation.)



Observing Log

Object type: Planetary Nebula

PNOG
ADV

FN Ge 23

COPY FOR
PNOG

Object ID: NBC 1514

Const.: Tau

RA: Dec:

Mag: Size:

Observer BY

Date 3/11/15

Time 9:20 CST

Location MCA

Seeing II Transparency II

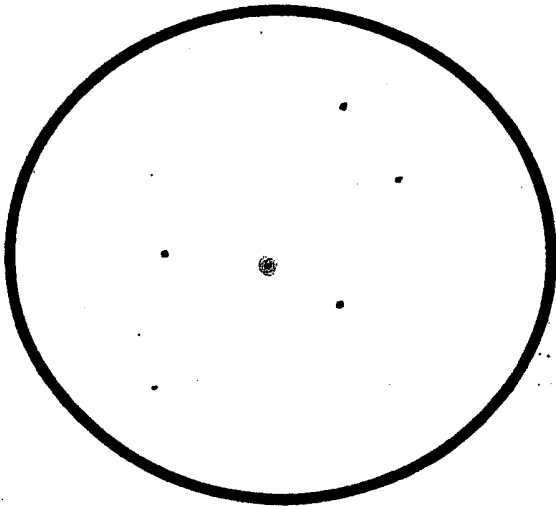
Instrument ETX

Size 125

Eyepiece 25

Field of view Power 73

w/NE



- What is the overall shape? Glow on 9m star
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? sl. blue
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges? some hair brighter at E
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)? esp. @ 190x
- Are there any other deep-sky objects in the same field of view? If so, what? No. Power tends to

D=0.2
D-A=No
WBMF req'd
CS visible
AV for detail
(amp power)

Description V-V=2A M=1

don
enjoy
bring
out
detail

Planetary Nebula Club Observing Log

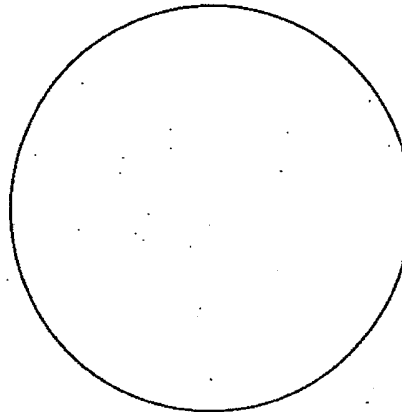
Observer's name: Brad Young

Object: <u>SN 2-216</u>	Location: <u>Adams Ranch</u>
Date: <u>10/9/7</u>	Time: <u>11:30</u>
Seeing: <u>II</u>	Transparency: <u>II</u>
Darkness of the site: <u>B1</u>	Moon phase: <u>-</u>
Aperture and focal ratio: <u>12" f/15</u>	Magnification(s) used: <u>37x</u>
Device-aided? <u>NO</u>	Color(s) seen: <u>-</u>
Filters used: <u>-</u>	Is filter required to detect the PN? <u>-</u>
Is the central star visible? <u>NO</u>	Direct or <u>inverted</u> vision?

How does the planetary respond to different magnifications?

Barely seen Av w/ lowest power

Description: (Sketch is optional unless a negative observation.)



slight
glow
circled

Planetary Nebula Club Observing Log

Observer's name: Bryant

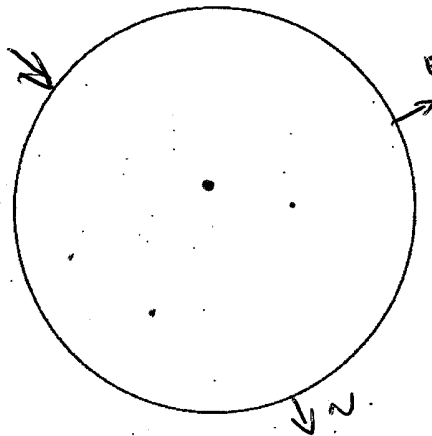
Object: <u>J 320</u>	Location: <u>LMCC</u>
Date: <u>1/11/08</u>	Time: <u>2:30</u> <u>✓</u>
Seeing: <u>II</u>	Transparency: <u>I - ✓</u>
Darkness of the site: <u>+4</u>	Moon phase: <u>4d</u>
Aperture and focal ratio: <u>12" f/5</u>	Magnification(s) used: <u>73, 150x</u>
Device-aided? <u>NO</u>	Color(s) seen: <u>sl blue</u>
Filters used: <u>O3</u>	Is filter required to detect the PN? <u>No</u>
Is the central star visible? <u>NO</u>	<u>Direct or averted vision?</u>

How does the planetary respond to different magnifications?

150x starts to hint at disk

Description: (Sketch is optional unless a negative observation.)

Very much stellar
until hints at 150x
of disk. Use OIII
filter to dim stars
while it stays
bright.



Planetary Nebula Club Observing Log

Observer's name: B Young

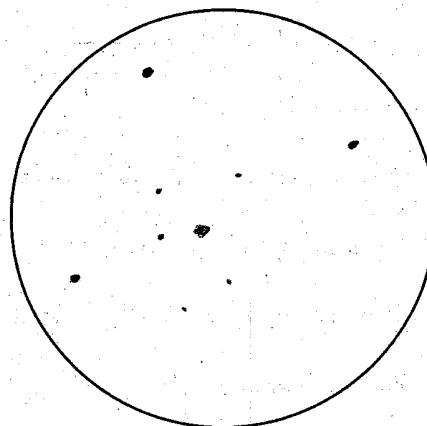
Object: <u>IC 2149</u>	Location: <u>Umcc</u>
Date: <u>4/20/17</u>	Time: <u>10:00</u>
Seeing: <u>III</u>	Transparency: <u>F-</u>
Darkness of the site: <u>B2</u>	Moon phase: <u>4d</u>
Aperture and focal ratio: <u>12" C/S</u>	Magnification(s) used: <u>150x</u>
Device-aided? <u>No</u>	Color(s) seen: <u>Bluish</u>
Filters used: <u>UBMF</u>	Is filter required to detect the PN? <u>Yes</u>
Is the central star visible? <u>No/Look</u>	<u>Direct</u> or averted vision?

How does the planetary respond to different magnifications?

Still a tiny disk even w/375x!

Description: (Sketch is optional unless a negative observation.)

Very difficult



4mm
view
(blinks)

Planetary Nebula Club Observing Log

Observer's name: Brad Young

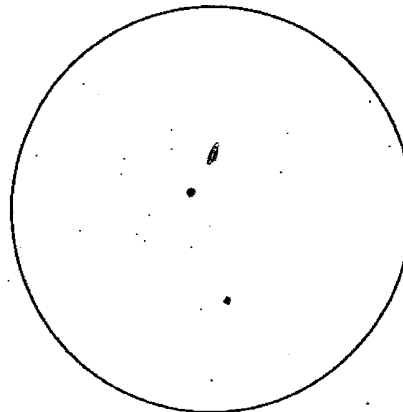
Object: <u>M1-7</u>	Location: <u>Adams Ranch</u>
Date: <u>10/10/17</u>	Time: <u>2:50</u>
Seeing: <u>II</u>	Transparency: <u>II</u>
Darkness of the site: <u>B1</u>	Moon phase: <u>—</u>
Aperture and focal ratio: <u>12" 4/5</u>	Magnification(s) used: <u>37x, 150x</u>
Device-aided? <u>No</u>	Color(s) seen: <u>—</u>
Filters used: <u>03</u>	Is filter required to detect the PN? <u>Helps</u>
Is the central star visible? <u>No</u>	☒ Direct or averted vision?

How does the planetary respond to different magnifications?

Needs power

Description: (Sketch is optional unless a negative observation.)

sl elong. glow



Planetary Nebula Club Observing Log

Observer's name: B Young

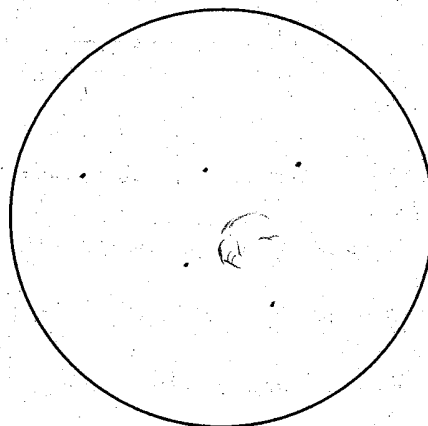
Object: <u>Jn Ecl (Lyn)</u>	Location: <u>RMCC</u>
Date: <u>4/16/17</u>	Time: <u>0:20</u>
Seeing: <u>II</u>	Transparency: <u>II</u>
Darkness of the site: <u>B4</u>	Moon phase: <u>—</u>
Aperture and focal ratio: <u>12"</u>	Magnification(s) used: <u>10mm</u>
Device-aided? <u>N/D</u>	Color(s) seen: <u>None</u>
Filters used: <u>WBAF</u>	Is filter required to detect the PN? <u>Yes</u>
Is the central star visible? <u>NO</u>	Direct or <u>averted</u> vision?

How does the planetary respond to different magnifications?

Could only see w/ 150x

Description: (Sketch is optional unless a negative observation.)

Extremely faint, large,
some hint of lobes - but
probably due to pressure
& name.



Planetary Nebula Club Observing Log

Observer's name: B YOUNG

Object: <u>IC 3568</u>	Location: <u>RMCC</u>
Date: <u>4/16/17</u>	Time: <u>1:20</u>
Seeing: <u>II</u>	Transparency: <u>II</u>
Darkness of the site: <u>B4</u>	Moon phase: <u>—</u>
Aperture and focal ratio: <u>12"</u>	Magnification(s) used: <u>150x</u>
Device-aided? <u>No</u>	Color(s) seen: <u>bluish</u>
Filters used: <u>WBNF</u>	Is filter required to detect the PN? <u>No</u>
Is the central star visible? <u>Yes</u>	<u>Direct</u> or averted vision?

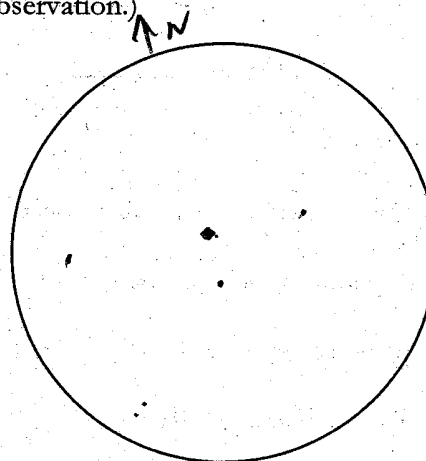
How does the planetary respond to different magnifications?

36x - hint that it was a disk

150x - see below

Description: (Sketch is optional unless a negative observation.)

Fantastic small bright
bluish disk w/ star off-
center. Very easy in field.



white white
••
32
Cam

x

blue
• orange

DOUBLES IN AREA
(36x)

12h30
+82

Planetary Nebula Club Observing Log

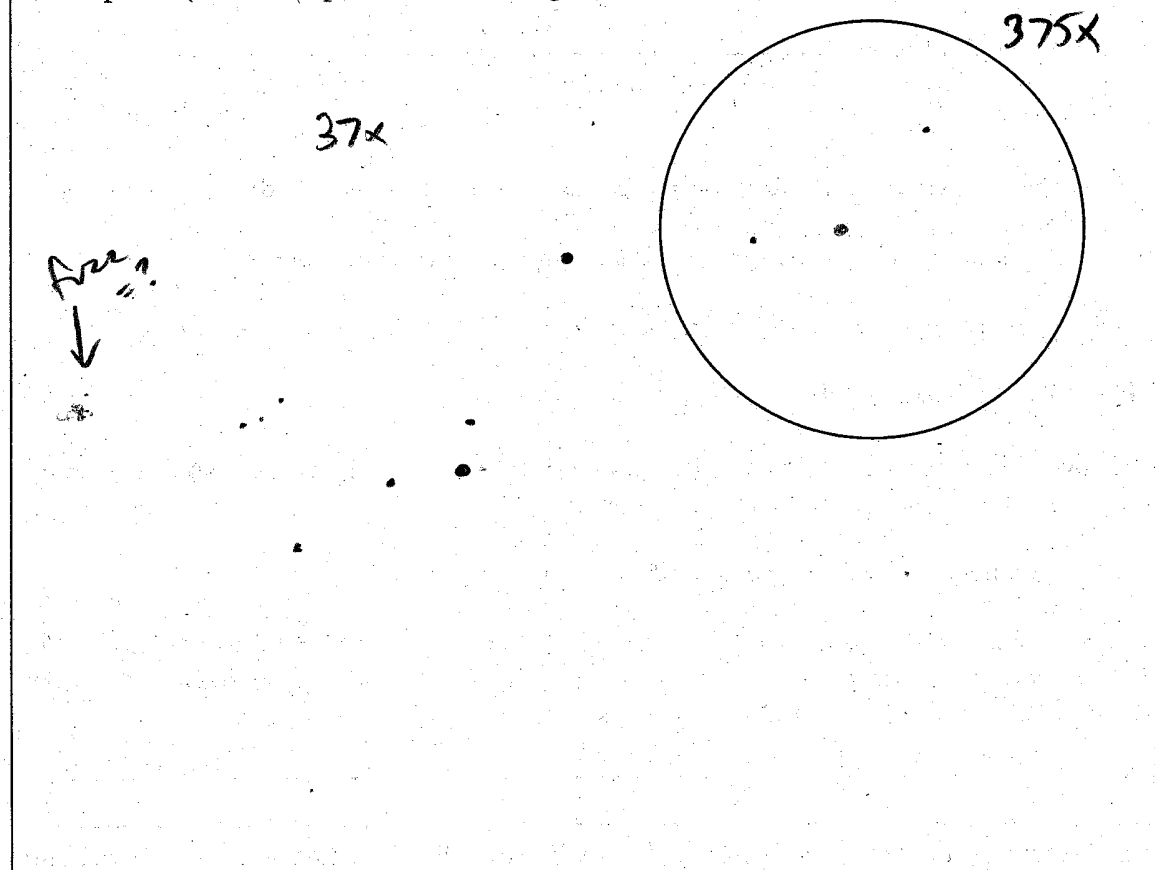
Observer's name: B Young

Object: <u>IC 5217</u>	Location: <u>RMCC</u>
Date: <u>7/9/17</u>	Time: <u>1:40</u>
Seeing: <u>II</u>	Transparency: <u>II</u>
Darkness of the site: <u>B+2</u>	Moon phase: <u>24h</u>
Aperture and focal ratio: <u>12" f/5</u>	Magnification(s) used: <u>37x 150x 375x</u>
Device-aided? <u>No</u>	Color(s) seen: <u>None</u>
Filters used: <u>O III</u>	Is filter required to detect the PN? <u>Helps a lot</u>
Is the central star visible? <u>No</u>	☒ Direct or ☐ averted vision?

How does the planetary respond to different magnifications?

Needs high power to identify it.

Description: (Sketch is optional unless a negative observation.)



Planetary Nebula Club Observing Log

PNOC
also
H2

Observer's name:

B Yomr

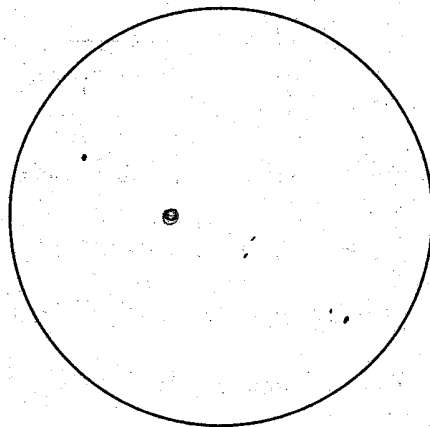
Object: N4C 7354	Location: Rmce
Date: 7/7/7	Time: 12:30 AM CDT
Seeing: II	Transparency: III
Darkness of the site: B2	Moon phase: LQ
Aperture and focal ratio: 12" F/8	Magnification(s) used: 37, 150
Device-aided? No	Color(s) seen: None
Filters used: OIII	Is filter required to detect the PN? No, but OIII helps
Is the central star visible? No	Direct or averted vision? Direct

How does the planetary respond to different magnifications?

seen 37x but not 150x

Description: (Sketch is optional unless a negative observation.)

Small disk, seems to have
a hole in middle



Verified 7/8/7 11:10 AM - some views
very

Planetary Nebula Club Observing Log

Observer's name: B Yant

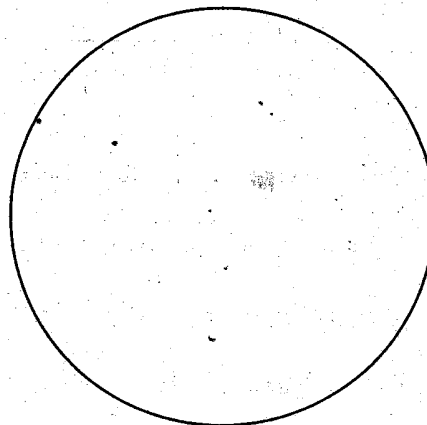
Object: <u>JONES 1</u>	Location: <u>RMCC</u>
Date: <u>7/9/7</u>	Time: <u>2:00</u>
Seeing: <u>II</u>	Transparency: <u>II</u>
Darkness of the site: <u>B+2</u>	Moon phase: <u>23d</u>
Aperture and focal ratio: <u>12" f/5</u>	Magnification(s) used: <u>37x, 75x</u>
Device-aided? <u>NO</u>	Color(s) seen: <u>None</u>
Filters used: <u>No</u>	Is filter required to detect the PN? <u>No</u>
Is the central star visible? <u>no</u>	Direct or <u>averted</u> vision?

How does the planetary respond to different magnifications?

Only 75x seen

Description: (Sketch is optional unless a negative observation.)

Very faint, ghostly arc



Planetary Nebula Club Observing Log

Observer's name: B YOUNG

Object: <u>Abell 82</u>	Location: <u>Adams Ranch</u>
Date: <u>7/15/17</u>	Time: <u>1:45 AM</u>
Seeing: <u>II</u>	Transparency: <u>II</u>
Darkness of the site: <u>B + 1</u>	Moon phase: <u>NEW</u>
Aperture and focal ratio: <u>12" f/5</u>	Magnification(s) used: <u>75, 150x</u>
Device-aided? <u>NO</u>	Color(s) seen: <u>—</u>
Filters used: <u>03 NDT 6000</u>	Is filter required to detect the PN? <u>NO, RUNS IT</u>
Is the central star visible? <u>NO</u>	Direct or averted vision? <u>Direct</u>

How does the planetary respond to different magnifications?

Same help but 75x is best

Description: (Sketch is optional unless a negative observation.)

Very faint almost complete circle w/ a few stars mixed



150x

Planetary Nebula Club Observing Log

Observer's name: B Yount

Object: <u>CAL 2688</u>	Location: <u>RMCC</u>
Date: <u>7/8/7</u>	Time: <u>11:50</u>
Seeing: <u>II-</u>	Transparency: <u>II</u>
Darkness of the site: <u>B +2</u>	Moon phase: <u>23d</u>
Aperture and focal ratio: <u>12" f/5</u>	Magnification(s) used: <u>37x, 150x, 375x</u>
Device-aided? <u>No</u>	Color(s) seen:
Filters used: <u>0III</u>	Is filter required to detect the PN? <u>No, NO HELP</u>
Is the central star visible? <u>?</u>	Direct or averted vision? <u>Direct</u>

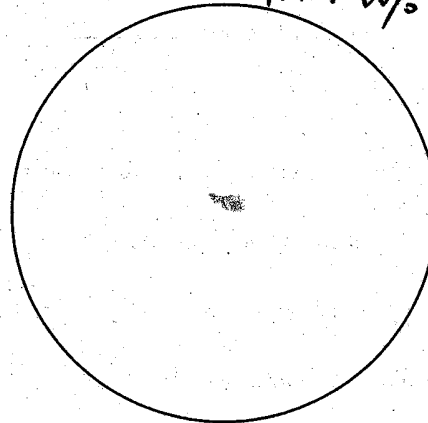
How does the planetary respond to different magnifications?

Get mag! B rings or what other wise B is double

Description: (Sketch is optional unless a negative observation.)

10mm
150x no filter

4mm w/o 0III



← w/o 0III (may N 106c)

Planetary Nebula Club Observing Log

Observer's name: B Yount

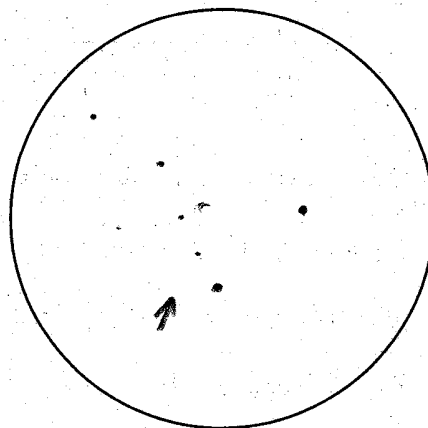
Object: <u>IRAS 18059-3211</u>	Location: <u>MCC</u>
Date: <u>7/9/17</u>	Time: <u>12:40</u>
Seeing: <u>II-</u>	Transparency: <u>II</u>
Darkness of the site: <u>B+2</u>	Moon phase: <u>23h</u>
Aperture and focal ratio: <u>12" f/5</u>	Magnification(s) used: <u>375x</u>
Device-aided? <u>No</u>	Color(s) seen: <u>NONE</u>
Filters used: <u>NO</u>	Is filter required to detect the PN? <u>NO</u>
Is the central star visible? <u>NO</u>	☒ Direct or averted vision?

How does the planetary respond to different magnifications?

Requires high power

Description: (Sketch is optional unless a negative observation.)

Just a stellar, 2" disk



Planetary Nebula Club Observing Log

Observer's name: _____

B Young

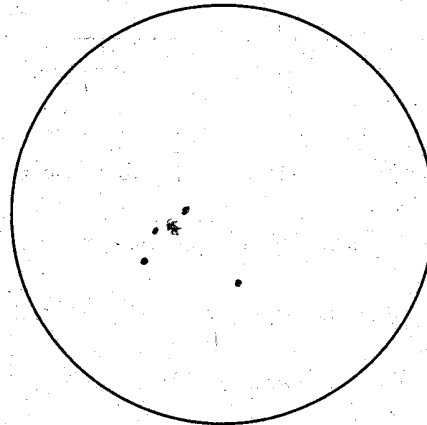
Object: M1-92	Location: RMCC
Date: 7/9/17	Time: 1115
Seeing: II	Transparency: II
Darkness of the site: B+2	Moon phase: 23%
Aperture and focal ratio: 12" f/5	Magnification(s) used: 375X
Device-aided? No	Color(s) seen: -
Filters used: No	Is filter required to detect the PN? NOT TRIED
Is the central star visible? No	<u>Direct</u> or averted vision?

How does the planetary respond to different magnifications?

Dim! must have been

Description: (Sketch is optional unless a negative observation.)

Very little detail, due to size



Observing Log

Object type: Planetary Nebula

CARDWELL
56

Object ID: Ngc 246

Const.: CRT

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 10/15/3

Time 22:20

Location RMCC

Seeing ~~A~~=II Transparency ~~A~~ II-

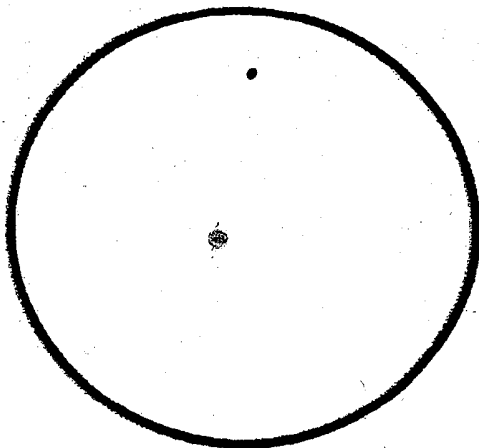
Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ Power 47x

+1.6



- What is the overall shape? Round
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? None
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description _____

Observing Log

Object type: Planetary Nebula

CROWELL
56

Object ID: Ngc 246

Const.: Cet

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 10/15/13

Time 22:15

Location RMce

Seeing X=II Transparency SA II -

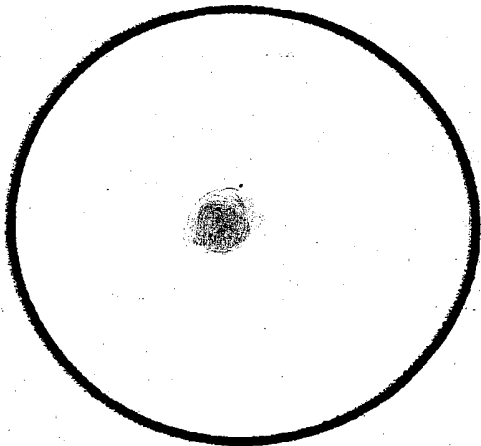
Instrument ETX 125

Size 125 f/15

Eyepiece 12.5

Field of view _____ Power 153x

w/n.f.



- What is the overall shape? Round
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? No color
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or very diffuse?
- Is the center brighter, darker, or the approx. same brightness as the edges?
- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

19 d D not yr
Bartle + y
D-A = No
direct vision

Description See also 47x view (next)

Stars on face - not really a cis.

Observing Log

Object type: Planetary Nebula

SOM
#12

Object ID: NbC 1360

Const.: For

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer By

Date 12/3/4

Time 10:10

Location RMCC Bartle + 4

Seeing I- Transparency I-

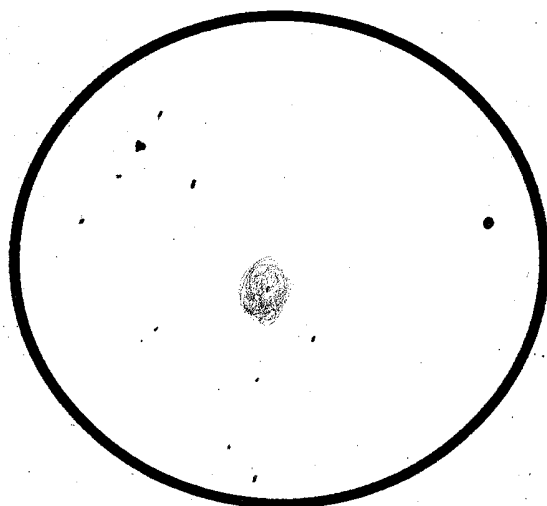
Instrument ETX 125

Size 125 f/15

Eyepiece 40

Field of view _____ Power 47

tnf



- What is the overall shape? Round
- Is this planetary So easy or difficult to identify in your field?
- What is the color of this planetary? No color
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)? Location!
- Are there any other deep-sky objects in the same field of view? If so, what? No

D=21d not up

D-A=No

cs seen

direct vision

Description Why is this not on standard lists? Observed?

153x is too much but does show 2nd stage (all in)

@ ~ 270°

Planetary Nebula Club Observing Log

Observer's name: _____

Brad Young

Object: <u>NGC 1535</u>	Location: <u>Home</u>
Date: <u>12/25/05</u>	Time: <u>11:50 CST</u>
Seeing: <u>3</u>	Transparency: <u>3</u>
Darkness of the site: <u>Bortle + 8</u>	Moon phase: <u>NO MOON (22d)</u>
Aperture and focal ratio: <u>125mm f/15</u>	Magnification(s) used: <u>190x</u>
Device-aided? <u>NO</u>	Color(s) seen: <u>NONE</u>
Filters used: <u>Neb broadband</u>	Is filter required to detect the PN? <u>NO, BUT IT HELPS</u>
Is the central star visible? <u>NO</u>	Direct or averted vision? <u>DIRECT</u>

How does the planetary respond to different magnifications?

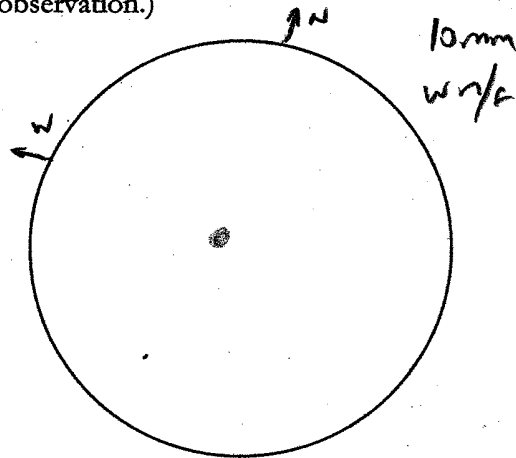
Gets bigger, easier to see

Description: (Sketch is optional unless a negative observation.)

Nice round disk
isolated in field

Morph = 1 Round

V-V = 2.6



Planetary Nebula Club Observing Log

Observer's name: B Young

Object: <u>IC 418</u>	Location: <u>RMCA</u>
Date: <u>3/25/6</u>	Time: <u>9:00 CST</u>
Seeing: <u>II</u>	Transparency: <u>III</u>
Darkness of the site: <u>Bartle + 4</u>	Moon phase: <u>22d (not up)</u>
Aperture and focal ratio: <u>12"</u>	Magnification(s) used: <u>10mm = 150x</u>
Device-aided? <u>No</u>	Color(s) seen: <u>Blue-green</u>
Filters used: <u>Neb- WB</u>	Is filter required to detect the PN? <u>No</u>
Is the central star visible? <u>No</u>	Direct or averted vision? <u>Direct - bright</u>

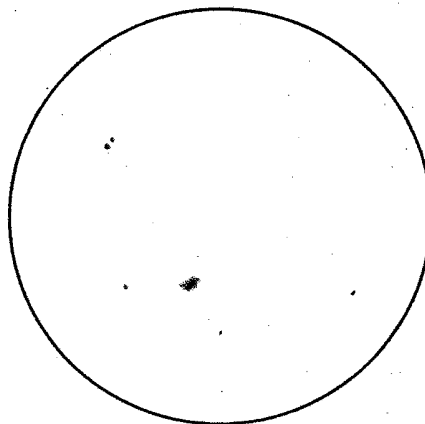
How does the planetary respond to different magnifications?

Gets bigger

Description: (Sketch is optional unless a negative observation.)

Stellar but shows very small disk @ high power.

Outer halo hmits @ w/Av (merged vision) w/filter.



Planetary Nebula Club Observing Log

Observer's name: B Yount

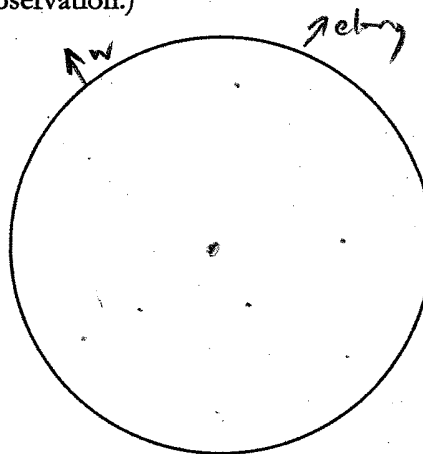
Object: <u>IC 2165</u>	Location: <u>RNCC</u>
Date: <u>3/25/6</u>	Time: <u>9:15 CST</u>
Seeing: <u>II-</u>	Transparency: <u>II-</u>
Darkness of the site:	Moon phase: <u>22d</u>
Aperture and focal ratio: <u>12"</u>	Magnification(s) used: <u>10mm w/WB 6mm</u>
Device-aided? <u>No</u>	Color(s) seen: <u>light yellow</u>
Filters used: <u>No</u>	Is filter required to detect the PN? <u>No</u>
Is the central star visible? <u>No</u>	Direct or averted vision? <u>D</u>

How does the planetary respond to different magnifications?

finally, shows disk @ 10mm

Description: (Sketch is optional unless a negative observation.)

Very stellar but hint
of elongation @



Planetary Nebula Club Observing Log

Observer's name:

B. YOUNG

Object: NGC 2392	Location: HOME
Date: 12/25/05	Time: 11:30 CST
Seeing: 3	Transparency: 3
Darkness of the site: Bortle +8	Moon phase: NOT UP (22d)
Aperture and focal ratio: 125mm f/15	Magnification(s) used: 47x, 190x
Device-aided? NO	Color(s) seen: NONE
Filters used: Neb broadband	Is filter required to detect the PN? NO
Is the central star visible? Yes	Direct or averted vision? DIRECT

How does the planetary respond to different magnifications?

Grows larger & disk is easier to see some detail.

Description: (Sketch is optional unless a negative observation.)

40mm 70° of

10mm: S&E sides seem sharper
some elong to glow & more
subtle border to NW.

Morph = 1 (Round)

V-V = 2b

VESTA
ON THE WAY 40mm

10mm
just used
615mm
(split
40mm)

72W

J Gem

Observing Log

Object type: Planetary Nebula

Object ID: NGC 2440

Const.: Pup

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer By

Date 3/28/4

Time 9:00 CST

Location Home! Bortle = +8

Seeing 7 Transparency 5

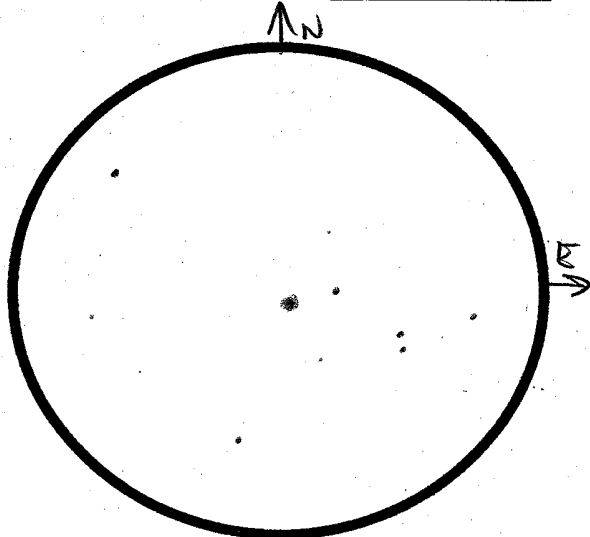
Instrument ETX 125

Size 125 mm f/15

Eyepiece 12.4

Field of view _____ Power 153X

+ neb filter



- What is the overall shape? round
- Is this planetary very easy or difficult to identify in your field?
- What is the color of this planetary? blue-grey
- Is it disk-shaped or is it more stellar in appearance? Star w/ disk of glow
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? M6

D = 7h, high m w
direct vision
D-A = no
CS seen

Description Field (w/dob) is most excellent!

All noted Bell stars match exactly with Bill Ferris drawing on Web

Observing Log Object type: Open Cluster

BOTH OCOC
AND PNOC!

Object ID: NGC 2453/2452

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B. Young

Date 3/24/6

Time 9:10 CST

Location RNCC Bortle = +4

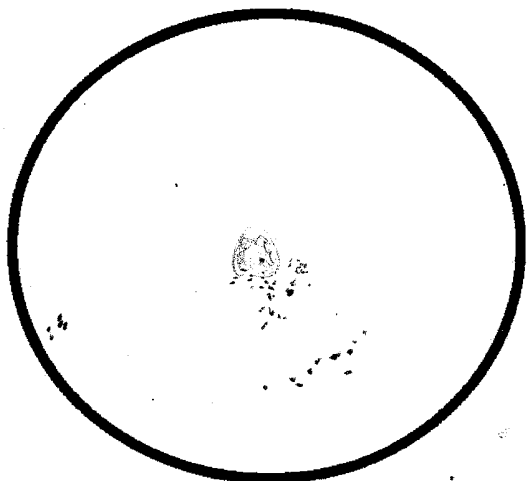
Seeing II Transparency II

Instrument X512

Size 12

Eyepiece 42

Field of view _____ Power 38



D = 24d (near up)

- Can this cluster be easily distinguished from the background stars? Yes
- What is the overall shape of the object? A little "T" shape
- How many stars can you count in the cluster? 35-40
- Are the stars more concentrated in any one particular area? Yes, nearer to PN
- Is this cluster resolved fully or is there some background nebulosity noticed? along with PN
- Is there any particular area where you notice an absence of stars in this cluster? N side has a "notch"
- Are there any particularly bright stars involved in this cluster? If so, do they show any colors? No
- Are there any other deep-sky objects in the same field of view? If so, what? NGC 2452 is

Description NO FILTER RECD,
NO POWER RECD, direct vision
D-A = No
CS seen

a large oval PN w/
1 prime CS easily
seen

Observing Log

Object type: Planetary Nebula

CALDWELL

Object ID: Nb 3132

Const.: Vela

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY 74

Date 3/11/4

Time 11:10 CST

Location RMCC B = +4

Seeing 8 Transparency 5

Instrument ETX 125

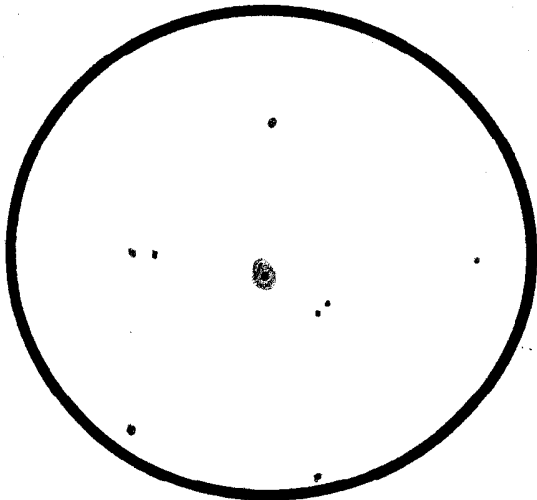
Size 125 f/15

Eyepiece 12.4

Field of view _____ Power 153X

+ n.b. Filter

D = 19d (not up)



- What is the overall shape? Round
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? bluish hints & grey
- Is it disk-shaped or is it more stellar in appearance? Extremely bright c.s. (~10m)
- Are the edges of the disk sharp or diffuse? fairly
- Is the center brighter, darker, or the same brightness as the edges? abst
(except c.s. of course)
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

"fills hole"
excellent
view - in
M33nearly
beautiful

Description _____

PNOCC

Observing Log

Object type: Planetary Nebula

Object ID: NGC 5873

Const.: _____

Observer B YOUNG

RA: _____ Dec.: _____

Date 5/29/6

Mag: _____ Size: _____

Time 12:15 am

Location Adams Ranch B = +1

Seeing II Transparency II

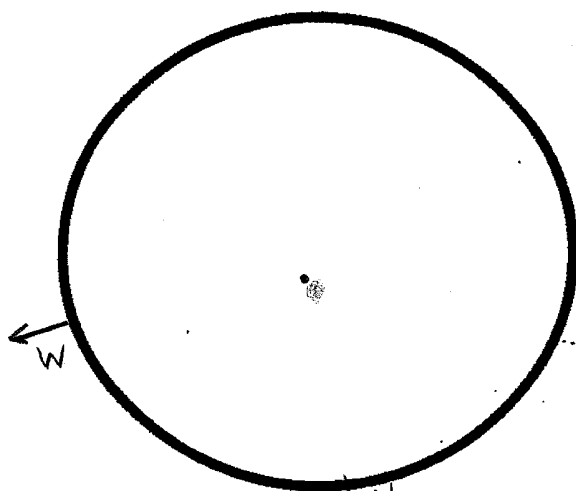
Instrument XT-12

Size 12" f/5

Eyepiece 12.4 mm

Field of view _____ Power 120x

W/NBF
D = 12



- What is the overall shape? Disk
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? Grey
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

direct vision
D-A = no
Use power!

Description No CS. Blinking w/filter helps but not req'd

Observing Log

Object type: Planetary Nebula

PWOC

Object ID: NGC 6026

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B Young

Date 5/29/16

Time 12:25

Location Adams Ranch B = +1

Seeing II Transparency II

Instrument MT 12

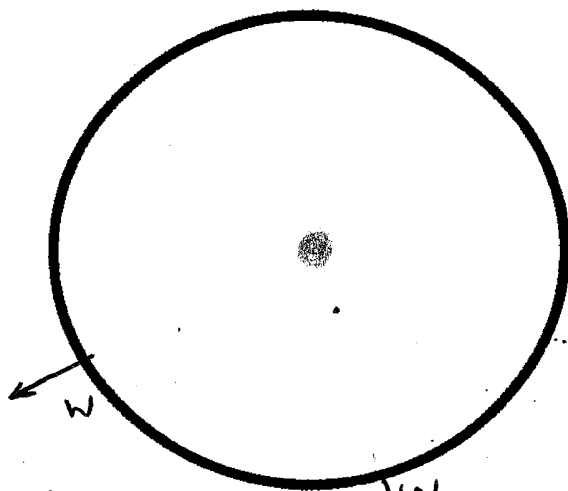
Size 12" f/5

Eyepiece 12.4 mm

Field of view _____ Power 120x

W/WBF

D=1d



- What is the overall shape? DISK
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? Grey
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)? *
- Are there any other deep-sky objects in the same field of view? If so, what? No

direct

O-A = no

Description FILTER BRINGS IT OUT "MIRACULOUSLY"

I DID NOT SEE "OBVIOUS CENTRAL STAR"!

PWOC

Observing Log

Object type: Planetary Nebula

Object ID: IC 4593

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B Young

Date 5/28/16

Time 1100

Location RMCE B = +4

Seeing II- Transparency II-

Instrument XST12

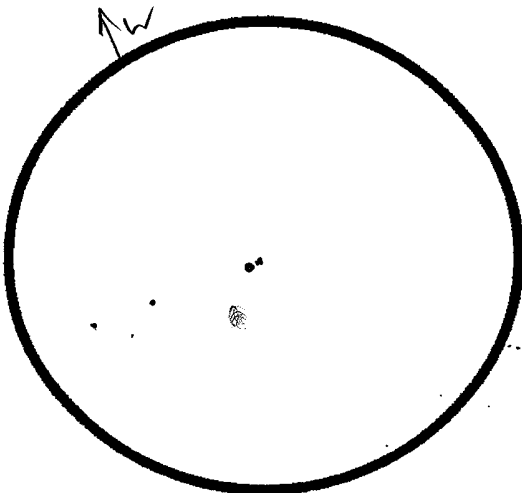
Size 12" f/5

Eyepiece 25

Field of view _____ Power 73

W/Filt^W 11/16 inch

D=0.2



- What is the overall shape? oval
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? grey
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

D-A = no
No C.S.

Description Use filter to block! + AV

Observing Log

Object type: Planetary Nebula

PNBC

Object ID: Nbc 6072

5/29/06

Const.: _____

Observer B Young ↑

RA: _____ Dec.: _____

Date SUN OF MON DAY MUND 2006

Mag: _____ Size: _____

Time ~12:30 am

Location ADAM RANCH B = +1

Seeing _____ Transparency _____

Instrument XT-12

Size 12" f/5

Eyepiece 10 mm

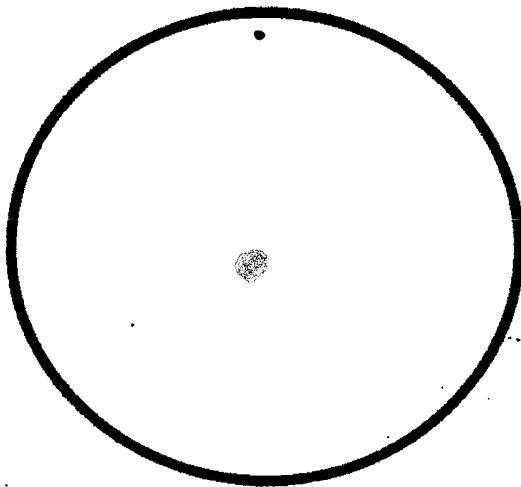
Field of view _____ Power 150x

WBNF

D=12

"190x" on tape refers to what of 3 w/ETX not XT-12

D-A = No direct vision



- What is the overall shape? OVAL
- Is this planetary easy or difficult to identify in your field? esp. w/filter
- What is the color of this planetary? None noted No c.s.
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse? not noted
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)? "BRINGS IT OUT MIRACULOUSLY"
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description RECOVERED FROM TAPE 10/22/06 - I KNEW I'D

SEEN IT AND FORGOT TO WRITE IT DOWN

ALSO, TAPE SAYS IT IS "JUST SOUTH OF F.S. AS

(1999 Cole & Pratt)

PLOTTED ON URANOMETRIA (CHART 165)!

...the ... of ...
...the ... of ...
...the ... of ...
...the ... of ...

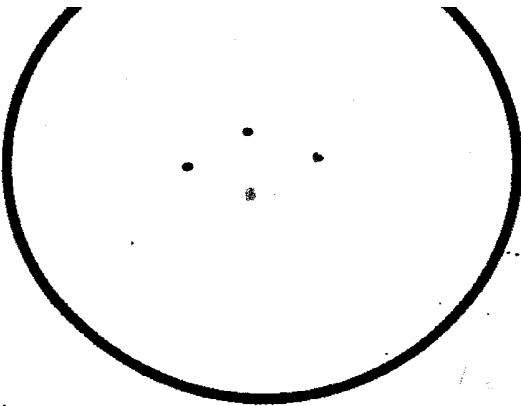
...the ... of ...
...the ... of ...
...the ... of ...
...the ... of ...

...the ... of ...
...the ... of ...
...the ... of ...
...the ... of ...

...the ... of ...
...the ... of ...
...the ... of ...
...the ... of ...

...the ... of ...
...the ... of ...
...the ... of ...
...the ... of ...

...the ... of ...
...the ... of ...
...the ... of ...
...the ... of ...



Instrument XT-12
 Size 12" f/5
 Eyepiece 12.4mm
 Field of view _____ Power 120x
W/WBNE
D=1d

- What is the overall shape? Disk/orb
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? Grey
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

D-A = no
 direct vision
 power req'd
 Not seen 37x
 No C.S.

Description on tape as "6073" Faint but not 14m!

Observing Log

Object type: Planetary Nebula

PNOc

Object ID: IC 4634

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B. Vant

Date 9/19/6

Time 9:05 CDT

Location RMCC

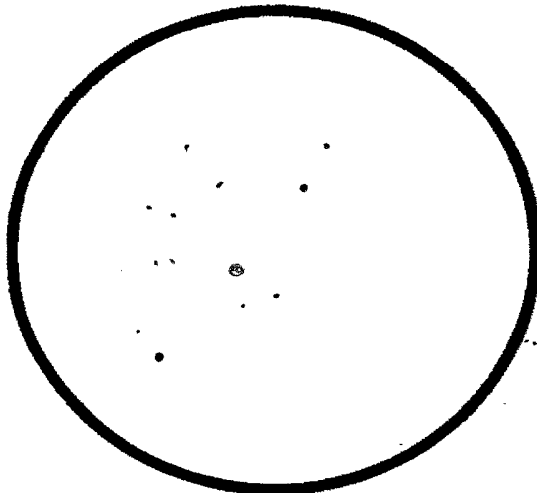
Seeing I Transparency I

Instrument XT-12

Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150x



NBF D=26h (not up)

D-A = no
direct vision

- What is the overall shape? Round
- Is this planetary easy or difficult to identify in your field? need power not seen 3x
- What is the color of this planetary? none No c.s.
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description _____

PNOB

Observing Log Object type: Planetary Nebula

Object ID: M2-9

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B Young

Date 9/18/6

Time 10:15 CDT

Location NANUT B=+1

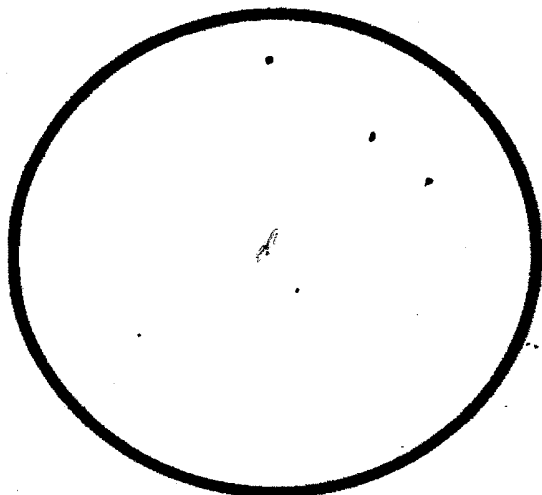
Seeing I Transparency I

Instrument XT12

Size 12" A/S

Eyepiece 10mm Ortho

Field of view _____ Power 150X



D=25d (not up)

- What is the overall shape? "wings"
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? None
- Is it disk-shaped or is it more stellar in appearance? wings
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges? C, & comes seen
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

Not seen 37X
D-A=no
use AV to bring
out

Description _____

PNOc

Observing Log

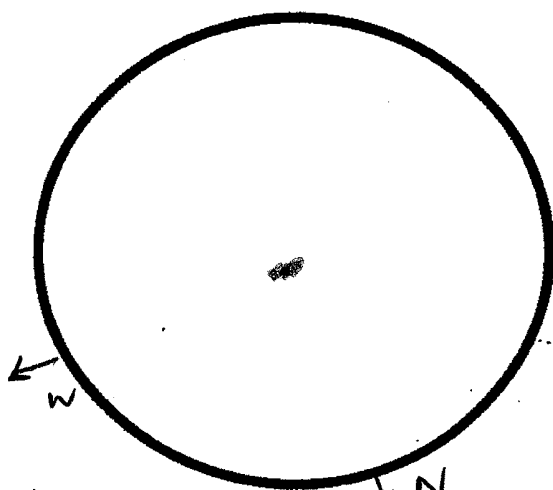
Object type: Planetary Nebula

Object ID: NGC 6302

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B YamDate 5/29/6Time 1:25 amLocation Adams Ranch B = +1Seeing II- Transparency IIInstrument XT-12Size 12" f/5Eyepiece 12.4mmField of view _____ Power 120Xw/wBFD=1dP-A=No

- What is the overall shape? Elongated, almost seems 2 pieces
- Is this planetary easy or difficult to identify in your field? direct vision
- What is the color of this planetary? Bluish
- Is it disk-shaped or is it more stellar in appearance? More irregular
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges? w/cs & "wings"
- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)? USE FILTER!
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description SW "wing" is longer, thinner glow

Planetary Nebula Club Observing Log

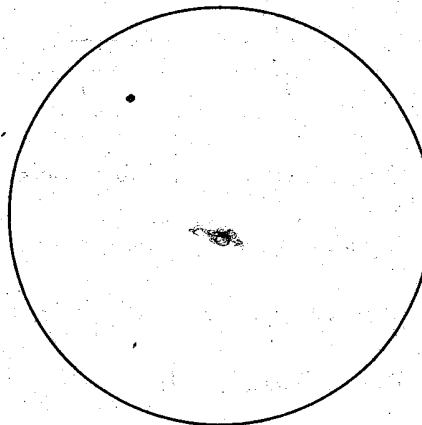
Observer's name: B York

Object: <u>M66 6302</u>	Location: <u>RMCC</u>
Date: <u>8/11/17</u>	Time: <u>11:20</u>
Seeing: <u>II</u>	Transparency: <u>II</u>
Darkness of the site: <u>B2</u>	Moon phase: <u>NEW</u>
Aperture and focal ratio: <u>12" F/5</u>	Magnification(s) used: <u>37, 150</u>
Device-aided? <u>NO</u>	Color(s) seen: <u>N/A</u>
Filters used: <u>OIII</u>	Is filter required to detect the PN? <u>NO</u>
Is the central star visible? <u>yes</u>	<u>Direct</u> or averted vision?

How does the planetary respond to different magnifications?

Needs power, OIII a big help

Description: (Sketch is optional unless a negative observation.)



Observing Log

Object type: Planetary Nebula

Object ID: NGC 6309

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B Young

Date 6/18/2

Time 10:25

Location RMCC B = +4

Seeing I Transparency I

Instrument XT 12

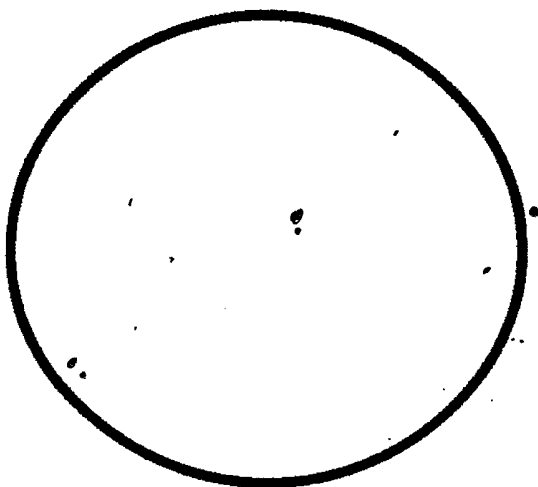
Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150x

w/ WBNF.

D = 21d (not up)



- What is the overall shape? Elongated
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? white
- Is it disk-shaped or is it more stellar in appearance? Oblate "star" - no distinct
C.S.
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? N₀

Use power
D-A = No

Description Can see it has a "shape" - not sure what it is! Bright

Observing Log

Object type: Planetary Nebula

Object ID: NHC 6337

Const.: Sco

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B Yount

Date 6/19/16

Time 11:35

Location RMCC B=+4

Seeing I Transparency I

Instrument XT12

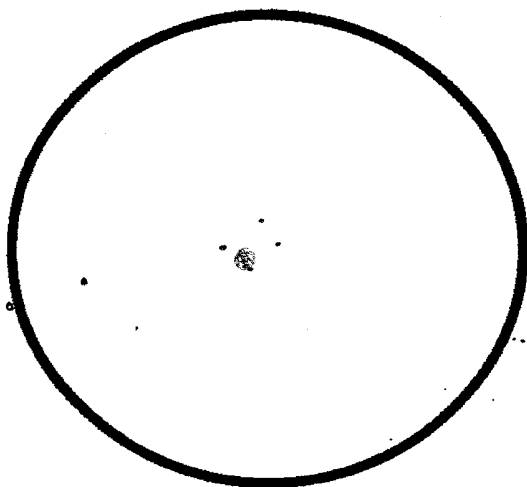
Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150X

w/WBNE

D=21" (not up)



- What is the overall shape? Round
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? sl. blue
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

Not seen 36x

D-A=no

No C.I.S.

Description R123 on way 36x just a hazy spot around 9m w/cheap scope
14 stars red green

Observing Log

Object type: Planetary Nebula

Object ID: 104670

Const.: Sgr

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B Yam

Date 6/21/1

Time 1:30

Location RMce B = +4

Seeing II Transparency II

Instrument XT-12

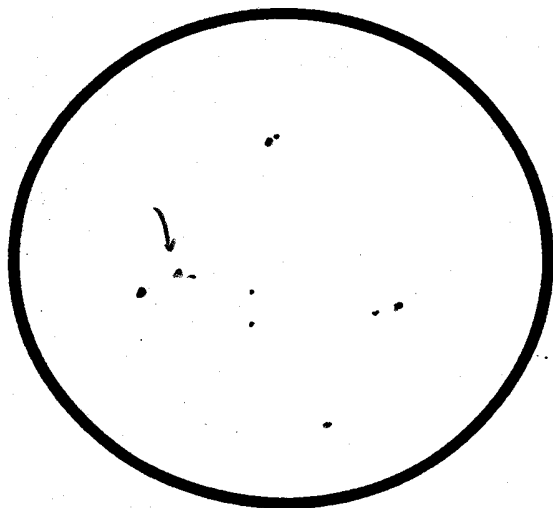
Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150x

+WBE

D=24d (not up)



• What is the overall shape? Stellar

Is this planetary easy or difficult to identify in your field?

• What is the color of this planetary? White

• Is it disk-shaped or is it more stellar in appearance?

• Are the edges of the disk sharp or diffuse?

• Is the center brighter, darker, or the same brightness as the edges?

• Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?

• Are there any other deep-sky objects in the same field of view? If so, what? No

Requires power
& filter (small)

D-A = no

direct vision

No distinct cis.

Description _____

Observing Log

Object type: Planetary Nebula

Object ID: Nbc 6537

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B 70mm

Date 6/12/6

Time 12:50

Location RMCC B = +4

Seeing I Transparency I

Instrument X12-12

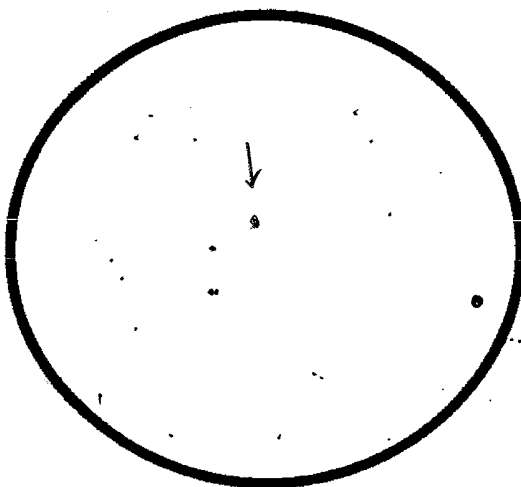
Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150x

W/WBNE

= 22d (not up)



- What is the overall shape? stellar
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? white
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)? AV
- Are there any other deep-sky objects in the same field of view? If so, what? M₀

Not seen 36x
averted vision
D-A = no
No C.S.

Description Can tell by a disk w/ M, entrance, & picture!

Observing Log

Object type: Planetary Nebula

Object ID: Ngc 6865

Const.: Sgr

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B Yount

Date 6/9/6

Time 12:15

Location RMCC B=+4

Seeing I Transparency I

Instrument X+12

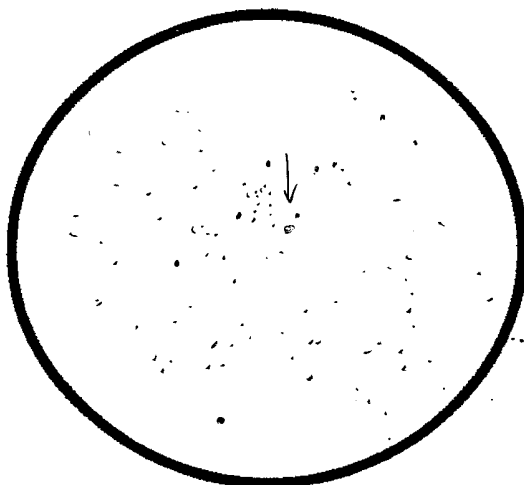
Size 12" f15

Eyepiece 10mm

Field of view _____ Power 150x

+WBNF

D=22d (not up)



- What is the overall shape? Nearly stellar
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? None
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)? AV
- Are there any other deep-sky objects in the same field of view? If so, what? No

AV req'd
Not seen 36x
D-A=no
No c.s.

Description AV only but seen easily w/ it!

Observing Log

Object type: Planetary Nebula

Object ID: NbC 6563

Const.: Sgr

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B Young

Date 6/19/6

Time 1100

Location RMCE +4

Seeing I Transparency I

Instrument XTR

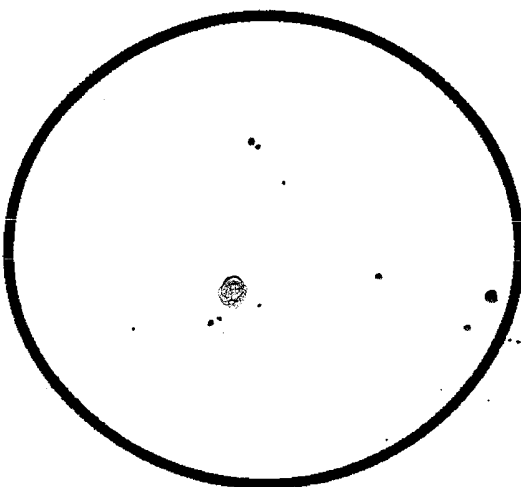
Size 12" f/5

Eyepiece 10 mm

Field of view _____ Power 150x

w/w DMP

D=22d (not up)



- What is the overall shape? Disk
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? grey
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

Small m 36x
D-A=no
direct vision
No cis.

Description Classic "smoke ring"

After checking book - yes sh elongated s/n/s

Observing Log

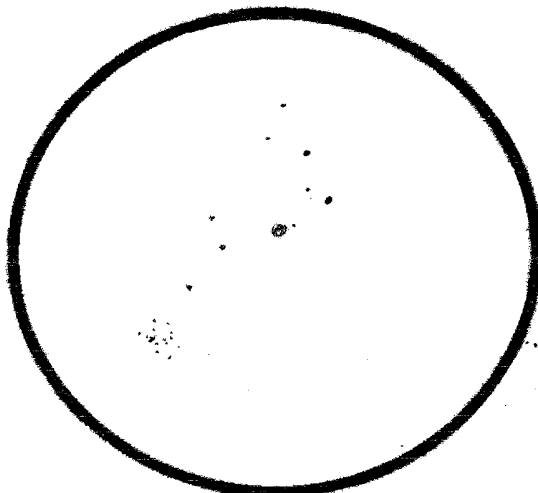
Object type: Planetary Nebula

Object ID: N6C 6572

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____



Observer B 70 m

Date 6/29/6

Time 11:00 pm

Location UMce B = +4

Seeing F Transparency II

Instrument XST 12

Size 12" f/5

Eyepiece 10 mm

Field of view _____ Power 150x

WBNP

D = 272 (not up)

- What is the overall shape? Round
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? Blue
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? What is small

Not seen 36x
D-A = no
direction
No c.s.

cluster? or
E?

Description _____

Observing Log

Object type: Planetary Nebula

Object ID: NRC 6567

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B Yount

Date 6/19/6

Time 1:20

Location RMCC B = +4

Seeing I Transparency I-

Instrument X512

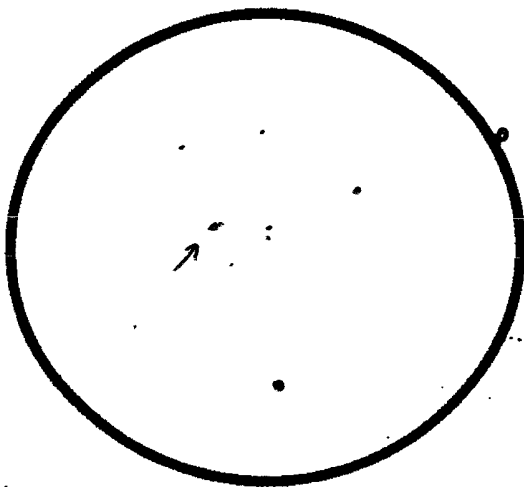
Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150x

w/WBF

D = 22d (not up)



- What is the overall shape? Shell
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? white
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)? PHOTO
- Are there any other deep-sky objects in the same field of view? If so, what? M24

Blinking w/r lker
myd
direct vision
D-A = no
No c.s.

Description ONLY MAJOR STARS SHOWN FOR CLARITY - EDGES OF

M24 & VERY RICHT. BLINKING CONFIRM

Observing Log

Object type: Planetary Nebula

Object ID: NGC 6578

Const.: Sgr

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B York

Date 6/19/6

Time 1:15

Location RMCC

Seeing I Transparency I

Instrument XT12

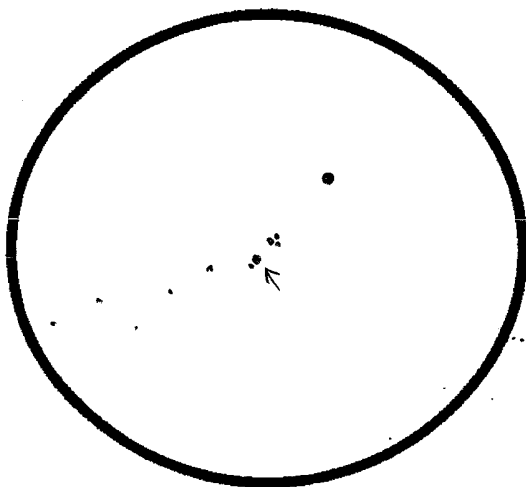
Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150x

W/WBNF

D=22d (not up)



- What is the overall shape? stellar
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? white
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? no

Not seen 36x
direct vision
Blinking w/filter
helps
D-A=no
No C.I.S.

Description "Blinking" helps

Observing Log

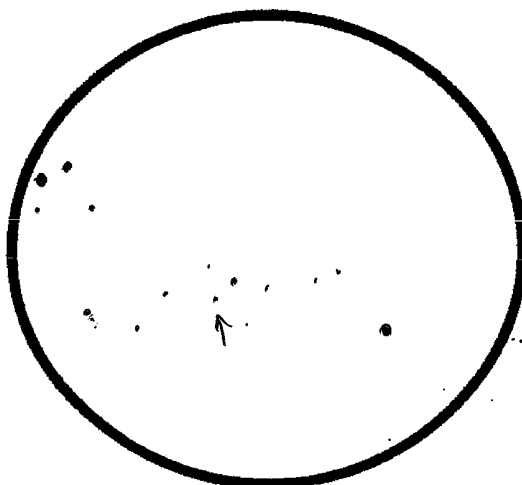
Object type: Planetary Nebula

Object ID: N6e 6620

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____



Observer B. YOUNG

Date 6/12/6

Time 1:28

Location RMCC B=+4

Seeing I- Transparency I-

Instrument X712

Size 12" f/5

Eyepiece 10 mm

Field of view _____ Power 150x

W/WBAP

D=22d (not up)

- What is the overall shape? Stellar
- Is this planetary easy or difficult to identify in your field? very
- What is the color of this planetary? white
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)? Photo
- Are there any other deep-sky objects in the same field of view? If so, what? No

Not seen 36x
direct vision
D-A=no
No cis.

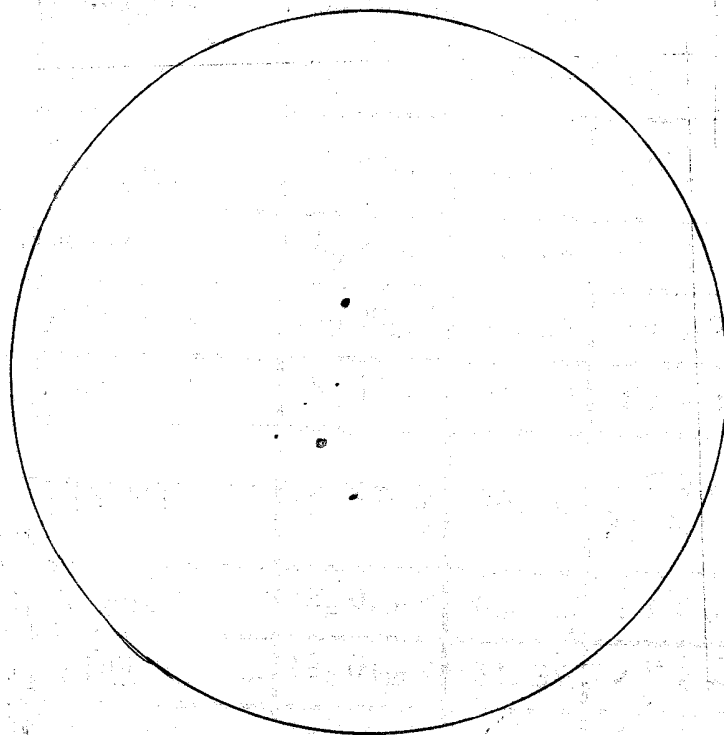
Description CAN'T GET DISK W/ CURRENT, BUT IT IS BRIGHTER

CFN#2

DATE 7/24/3 TIME 12:25 CST CDT CLARITY I II III IV V SEEING I II III IV V

INSTRUMENT ETX-125 10x50 EYE POWER 10X 73X 153X 475X

OBJECT N6C 6629 LOCATION RMCC HOME _____



NOT
UPSIDE
DOWN

OK
AS
IS

SMALL - NO DETAIL - DIDN'T PUSH IT BUT OBVIOUSLY

A P.M. (SOME SLIGHT BLUE COLOR TO IT)

D = 25 μ (not up) B = +4 125mm f/15

No cis. Direct vision

Observing Log

Object type: Planetary Nebula

Object ID: NBc 6644

Const.: Sgr

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B. York

Date 6/19/12

Time 11:05

Location RMCC B = +4

Seeing I- Transparency II

Instrument XST 12

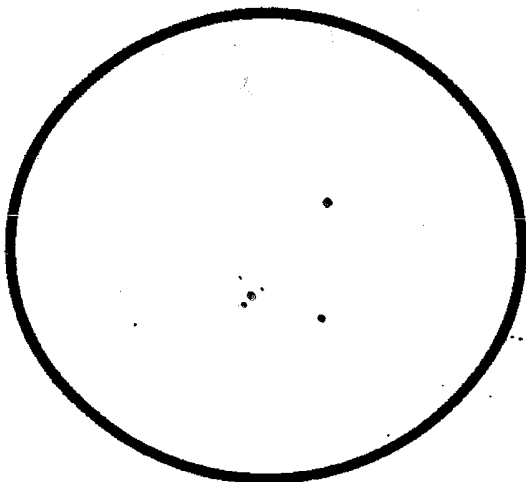
Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150x

w/wBNE

D=22d (not up)



- What is the overall shape? stellar
- Is this planetary easy or met difficult to identify in your field?
- What is the color of this planetary? white
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No - 6638 close though

Not seen 36x

No C.S.

D-A = no

Blmk w/wBNE

Need AV

Description Blmkng + H400 to pure

Observing Log

Object type: Planetary Nebula

Object ID: IC4732

Const.: Sgr

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B Yam

Date 6/21/6

Time 12:30

Location RMCE B=+4

Seeing II Transparency II

Instrument XST-12

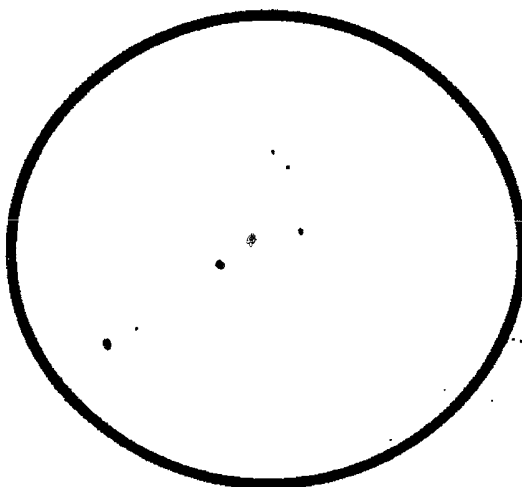
Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150x

w/wbmf

D=24" (not up)



- What is the overall shape? Seller
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? None
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

Not seen 36x

No c.s.

D-A=no

Direct vision

Description _____

Observing Log

Object type: Planetary Nebula

21
6/15/00
12

Object ID: IC4776

Const.: Sgr

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B. Young

Date 6/20/16

Time 12:55

Location MCC B = +4

Seeing II Transparency II

Instrument XTR

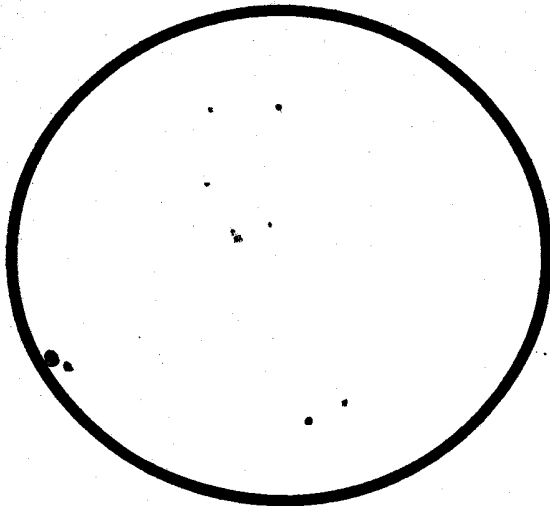
Size 12" f/5

Eyepiece 6mm

Field of view _____ Power 250X

w/ WBNF

D = 23d (not up)



• What is the overall shape? Stellar

• Is this planetary easy or difficult to identify in your field?

• What is the color of this planetary? None

• Is it disk-shaped or is it more stellar in appearance?

• Are the edges of the disk sharp or diffuse?

• Is the center brighter, darker, or the same brightness as the edges?

• Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)?

• Are there any other deep-sky objects in the same field of view? If so, what? No

Not seen 37x or 150x

No c.s.

Need filter

D-A = no

direct vision

Description _____

Observing Log

Object type: Planetary Nebula

Object ID: IC1295 + P253-4.6

Const.: Scu

Observer B Yano

RA: _____ Dec.: _____

Date 6/21/6

Mag: _____ Size: _____

Time 1:55

Location RMCE B=+4

Seeing II Transparency II

Instrument XT-12

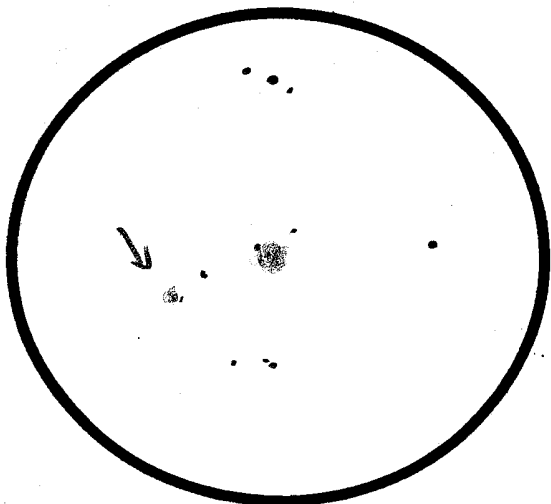
Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150x

+ WBNK

D=242 (no-up)



- What is the overall shape? Round
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? Grey
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges? fairly even
- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? Yes - get the other PN

Not obvious 36x
Star on disk - but
off-center
D-A=no
Use filter

Description _____

Same description
but smaller
fainter

Observing Log

Object type: Planetary Nebula

PNOC

Object ID: Sh 2-71

Const.: _____

RA: _____ Dec.: _____

Mag: • Size: _____

Observer B Young

Date 9/19/6

Time 12:15 CA

Location Amert B = +1

Seeing I Transparency I

Instrument XT 12

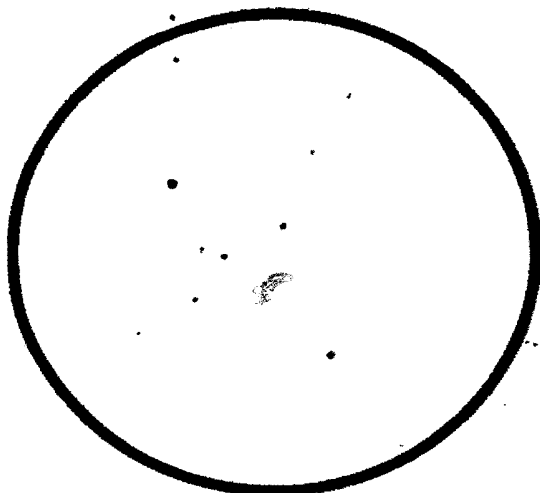
Size 12" f/5

Eyepiece 10mm Ortho

Field of view _____ Power 150x

W/WBF

D=26d (not up)



- What is the overall shape? "shrimp"
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? —
- Is it disk-shaped or is it more stellar in appearance? irreg
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges? 2 cs (?)
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

Not seen 36x
Use WBNF
D-A = no
2 cis. ?

Description _____

The Herschel Objects

OBSERVATION



NCC - H 6751		SEA. CP. - PG		RIGHT ANGLE COORD. - CONSTEL.		TIME 3:50	DATE 6/21/6
SEEKING II	TRANSPARENCY II	INSTRUMENT XT 12" f/5		EYEPiece - POWER 10mm 150x		OBSERVING SITE RMCC B = +4 D = 24d (mE)	
DRAWING				COMMENTS			
				WNF = EASY! BLIST DISK W/STAR ON ME SIDE - EVEN BLAD No c.s. Not good @ 36x Direct vision D-A = no A20625 OVD on way - V. bright > ALB but just cc PNO C			

NCC - H 6779		SEA. CP. - PG		RIGHT ANGLE COORD. - CONSTEL.		TIME 4:00	DATE 6/21/6
SEEKING II	TRANSPARENCY II	INSTRUMENT XT 12" f/5		EYEPiece / POWER 10mm 150x		OBSERVING SITE RMCC B = +4	
DRAWING				COMMENTS			
				two WNF, Nra disk v. slightly elong., but not. no c.s. Not visible 36x, use filter. D-A = no D = 24d (mE) PNO C			



DATE 6/21/6 TIME 2:10 CST 0 CLARITY I II III IV V SEEING I II III IV V

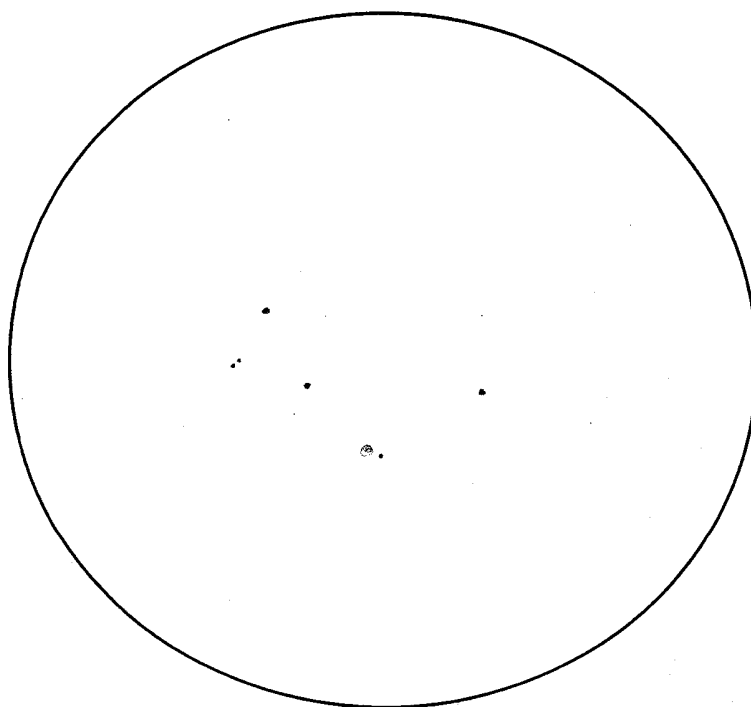
INSTRUMENT XT-12 ETX-125 50 x 800 mm RR 10x50 EYE

POWER 38 60 121 150 250 375 10 47 73 153 316 475

OBJECT 1c 4846 (A71) FILTER NO NB WB OIII

OBS. PROGRAM PWOC LOC. RMCC RANCH HOME

1502
10NW



Very stellar and dim but seen - blue-grey
almost - disk. D=24d (just up)
B=+4 12" f/5 10mm AV helps, not seen 36x
No C.S. D-A=no

Observing Log

Object type: Planetary Nebula

Object ID: IC 1297

Const.: CrA

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B. Young

Date 6/21/4

Time 1:10

Location Mce B = +4

Seeing II Transparency II

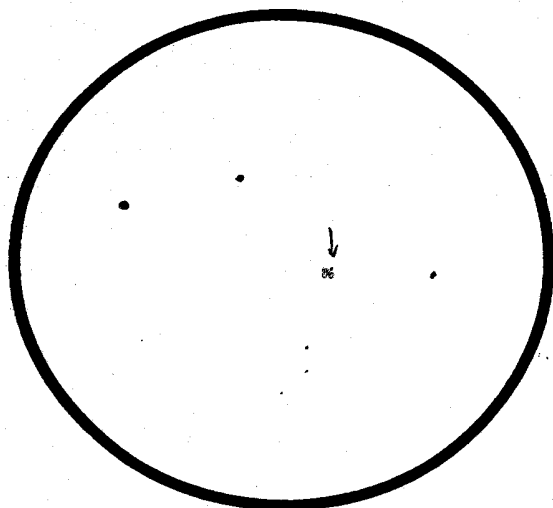
Instrument XT-12

Size 12" f/5

Eyepiece 10 mm

Field of view _____ Power 150x

w/wB&F
D=24d (not up)



- What is the overall shape? disk
- Is this planetary easy or difficult to identify in your field?

- What is the color of this planetary? bluish

- Is it light disk-shaped or is it more stellar in appearance?

- Are the edges of the disk sharp or diffuse?

- Is the center brighter, darker, or the same brightness as the edges?

- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)?

- Are there any other deep-sky objects in the same field of view? If so, what? No

Not seen 36x
Use filter
D-A = no
direct vision
no C.S.

Description hint of some on SE corner

The Herschel Objects

OBSERVATION



HCC - H 6751		SEA. GP. - PG		RIGHT ANGLE COORD. - CONSTEL.		TIME 3:50	DATE 6/21/6
SEEING II	TRANSPARENCY II	INSTRUMENT XT12		EYEPIECE - POWER 10 150		OBSERVING SITE NMCC	
DRAWING				COMMENTS			
				WBNF EASY! BLUNT DISK W/STAR ON ONE SIDE - EVEN BLAD click 3583L K 20625 0.00 on way - V Ayl bright > A16 but just CC PNOCC			

HCC - H 6779		SEA. GP. - PG		RIGHT ANGLE COORD. - CONSTEL.		TIME 4:00	DATE 6/21/6
SEEING II	TRANSPARENCY II	INSTRUMENT XT12		EYEPIECE / POWER 10 150		OBSERVING SITE NMCC	
DRAWING				COMMENTS			
				twonf, nra disk v. slightly elong., but no cs PNOCC			



Observing Log

Object type: Planetary Nebula

Object ID: NbC 6790

Const.: Aql

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B Yamr

Date 6/25/1

Time 1:25

Location RMCC B = +4

Seeing II Transparency II

Instrument X5-12

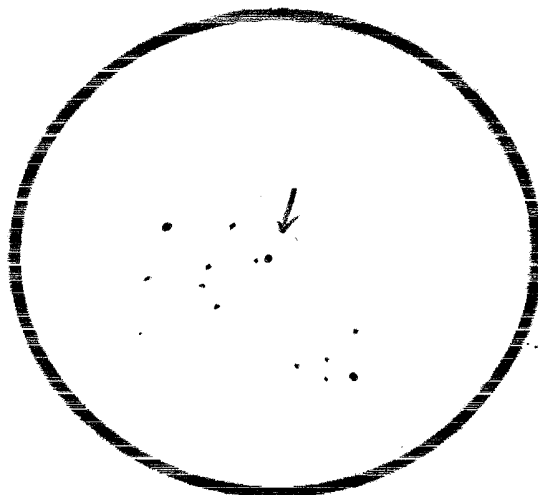
Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150x

WBF (w/links)

D=28d (not up)



- What is the overall shape? Shell
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? Blue
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)? None 2 blink
- Are there any other deep-sky objects in the same field of view? If so, what? No

Not seen 36x
D-A = no
No C.I.S.
Direct vision
Blink w/ filter

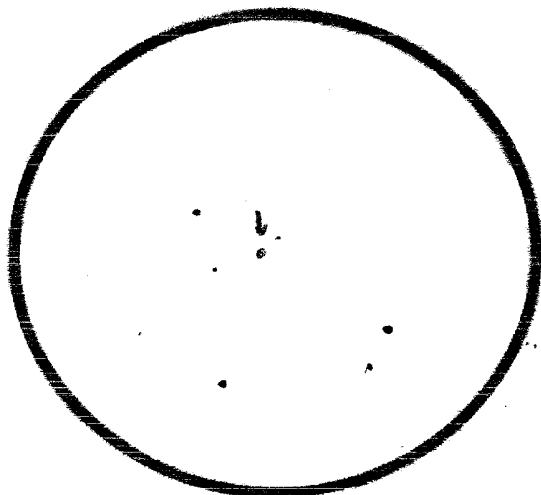
Description _____

Object ID: V_γ 2-2

Const.: Aql

RA: _____ Dec.: _____

Mag: _____ Size: _____



Observer B. Young

Date 6/25/6

Time 12:40

Location RMCC B = +4

Seeing II Transparency II

Instrument X512

Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150x

WBM

D = 28d (not up)

- What is the overall shape? almost stellar
- Is this planetary easy or very difficult to identify in your field?
- What is the color of this planetary? None
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? no

Not seen @ 36x

D-A = 70

Direct vision/AV doesn't really help

Picture guide helps!

Description _____

Observing Log

Object type: Planetary Nebula

Object ID: N6C 6803

Const.: Ant

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B Young

Date 6/24/11

Time 1155

Location RMCC B = +4

Seeing II Transparency II

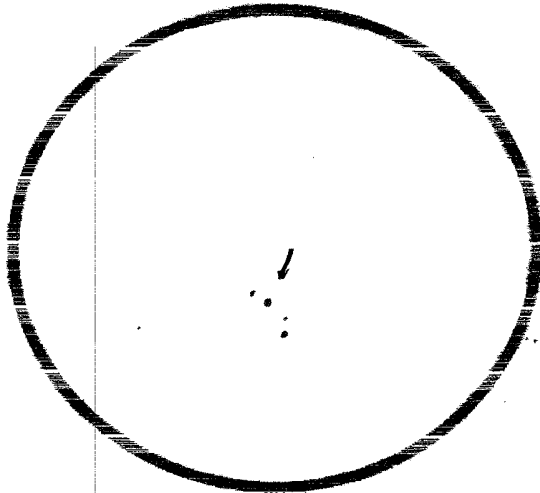
Instrument X5-12

Size 12" f/5

Eyepiece 6 mm

Field of view _____ Power 250X

no WDF - it's not much help
D=28d (not up)



- What is the overall shape? stellar
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? None
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)? None confirms
- Are there any other deep-sky objects in the same field of view? If so, what? No

Not seen 36x
No C.I.S.
D-A = no
Direct vision

Description _____

PNOC

COPY HZ

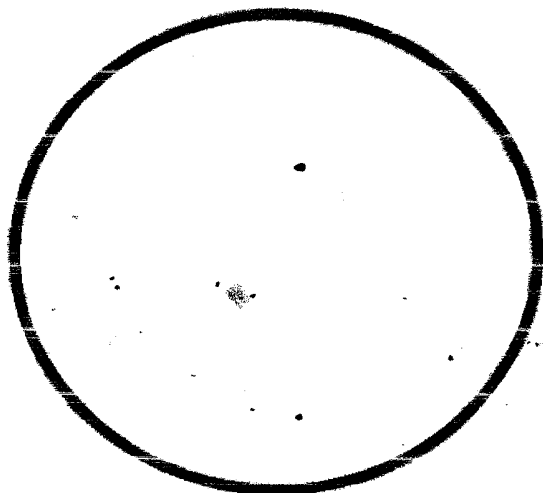
Observing Log

Object type: Planetary Nebula

Object ID: NGC 6804Const.: Ant

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B YoungDate 6/25/2Time 12:00Location MCC B = +4Seeing II Transparency IIInstrument X512Size 12" f/5Eyepiece 10mmField of view _____ Power 150xWDRD = 282 (not up)

- What is the overall shape? Oval
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? Grey
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse sh
- Is the center darker or the same brightness as the edges?
- Any suggestions for observing this nebula (i.e. filter, power, time of view, etc.)? Prism helps
- Are there any other deep-sky objects in the same field of view? If so, what? No

Not good 36x
C.S. seen (~12m)

D-A = no
Filter req'd
direct vision

Description M32cl 15" time - summary glow - sl. oblong

Observing Log

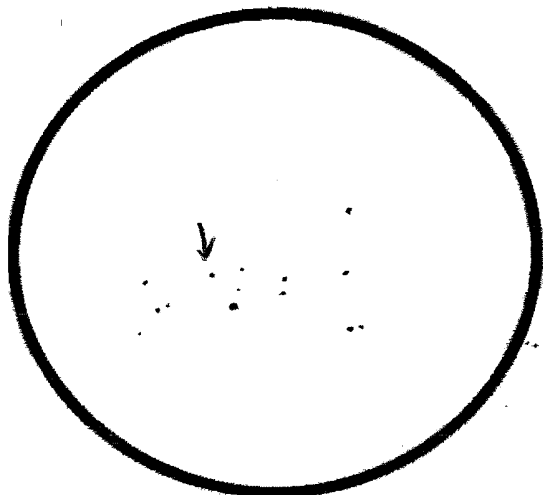
Object type: Planetary Nebula

Object ID: NCC 6807

Const.: Aql

RA: _____ Dec.: _____

Mag: _____ Size: _____



Observer B. Yount

Date 6/25/6

Time 12:30

Location RNCC B = +4

Seeing II Transparency II

Instrument X5-12

Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150X

WBRK

D=28d (not up)

- What is the overall shape? stellar
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? none
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)? Prism req'd to ID
- Are there any other deep-sky objects in the same field of view? If so, what? N6

Not seen 36x
Filter req'd
D-A=no
Direct vision
Tiny

Description _____

Copy For Pnoc!

GALAXY GROUP AND CLUSTER OBSERVATIONS

NGC 6716		SITE RMCC	SEEING II	TRANS II
CONST		INSTR XT-12	EYEPiece 42	POWER 37
No. OF GALAXIES (AV)		COMMENTS Anchor on SMILEY FACE		
DATE 6/21/6		OCOC		
TIME 3:00				
NGC 6774		SITE RMCC	SEEING II	TRANS II
CONST Sgr		INSTR XT12	EYEPiece 42	POWER 37
No. OF GALAXIES (AV)		COMMENTS OCOC		
DATE 6/21/6				
TIME 3:10				
NGC 6822		SITE RMCC	SEEING II	TRANS II
CONST Sgr		INSTR XT12	EYEPiece 42	POWER 37
No. OF GALAXIES (AV) 1		COMMENTS HUGE - AV WORKS		
DATE 6/21/6		WHAT A VIEW		
TIME 3:15				
NGC 6818		SITE RMCC B=+4	SEEING II	TRANS II
CONST Sgr		INSTR XT-12" F/5	EYEPiece 10mm	POWER 150X
No. OF GALAXIES (AV)		COMMENTS + WGNF (HELPS A LOT) AMAZING! BRIGHT BLuish GRAY. HOLE IN MIDDLE (SMALL HOLE) NO C.S.		
DATE 6/21/6		P-A=NO DIRECT VISION		
TIME 3:25				NOT GOOD @ 36X

The AV scale for averted vision is used to classify the difficulty of observation. This 1-5 scale is further explained on pages 137-138.

3:15 am moon low

125

21:00
15W

Observing Log

Object type: Planetary Nebula

Object ID: M27

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B York

Date 6/25/6

Time 1:40

Location Mce B=+4

Seeing II Transparency II

Instrument X512

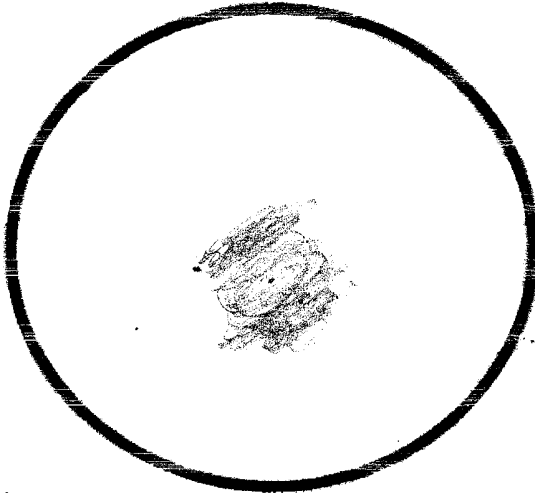
Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150x

WBF

D=28d



- What is the overall shape? Dumbell - very 3D and uneven w/ glasse splashes
- Is this planetary easy or difficult to identify in your field? Seen 36x (even 10x)
- What is the color of this planetary? Blue-grey b4 power brings out details
- Is it disk-shaped or is it more stellar in appearance? Direct vision
- Are the edges of the disk med sharp or diffuse? D-A = no
- Is the center brighter, sl darker, or the same brightness as the edges? Filter helps
- Any suggestions for observing this nebula (filter, power, field of view, etc.)? eyes c.h. = ?
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description cs ??

Observing Log

Object type: Planetary Nebula

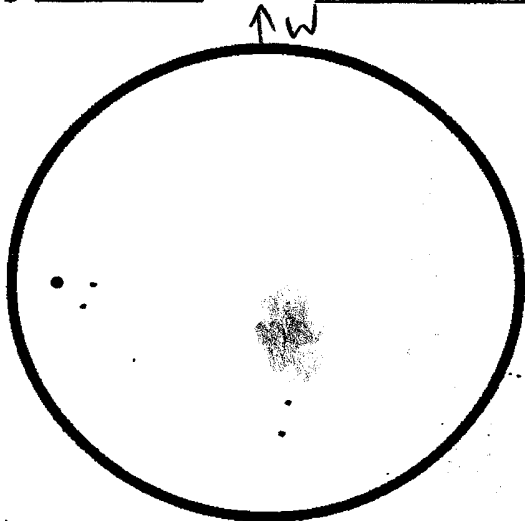
ANOTHER
VIEW!

Object ID: M27

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____



Observer B Young

Date 9/23/6

Time 11:40 CDT

Location RMCC

Seeing II Transparency I-

Instrument X5-12

Size 12

Eyepiece 25

Field of view _____ Power 60

WBF

D=0.2

- What is the overall shape? ☆
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? green-gray
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? M₀

No CS

Description "Smeared" a little to east

Observing Log

Object type: Planetary Nebula

Pvoc

Object ID: N6C 6879

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer Ryan

Date 9/19/6

Time 11:30 CDT

Location RMCC B=+4

Seeing I Transparency I

Instrument Xt-12

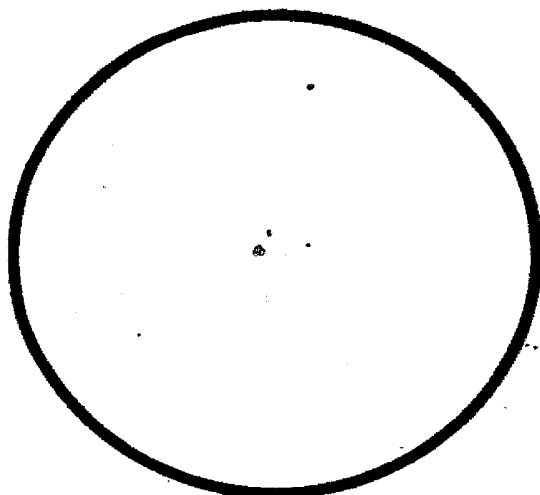
Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150x

WBF

D=26 L



- What is the overall shape? Round
- Is this planetary easy or difficult to identify in your field? (small)
- What is the color of this planetary? None/grey
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

Not seen 36x
Direct vision
D-A=no
No CS

Description _____

PVOC

Observing Log Object type: Planetary Nebula

Object ID: Ngc 6886

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B York

Date 9/20/6

Time 12:00 COT

Location RMCC B = +4

Seeing I Transparency I

Instrument XT-12

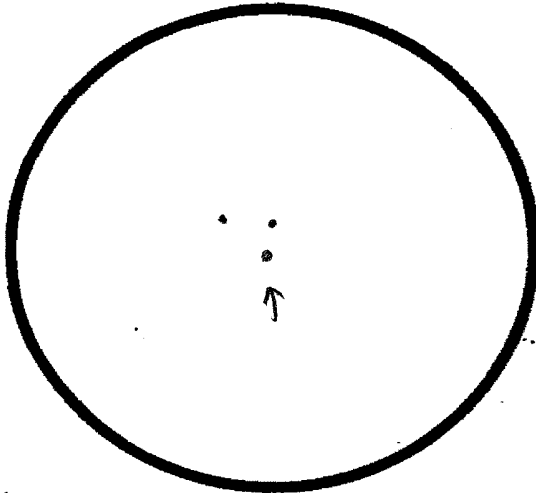
Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150X

WBF

D=271



- What is the overall shape? "FAT star"
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? None
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? M6

Not seen 36x
direct vision
No C.S.
D-A = no

Description _____

Observing Log

Object type: Planetary Nebula

RENSIT

Object ID: NBC 6886

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B Young

Date 11/23/6

Time 7:25

Location RMCE

Seeing II- Transparency II

Instrument XT-12

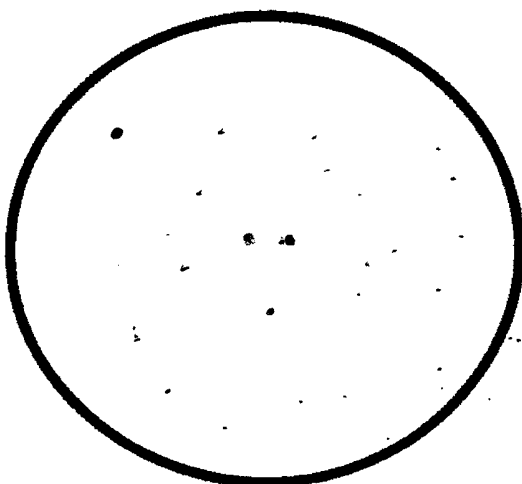
Size 12

Eyepiece 10

Field of view _____ Power 150

NBWF

D = 1d



- What is the overall shape? Disk
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? B-G
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description Rensit

Observing Log

Object type: Planetary Nebula

PNOC

Object ID: NGC 6891

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B Young

Date 9/12/6

Time 11:50 CST

Location RMCC B=+4

Seeing I Transparency I

Instrument X-12

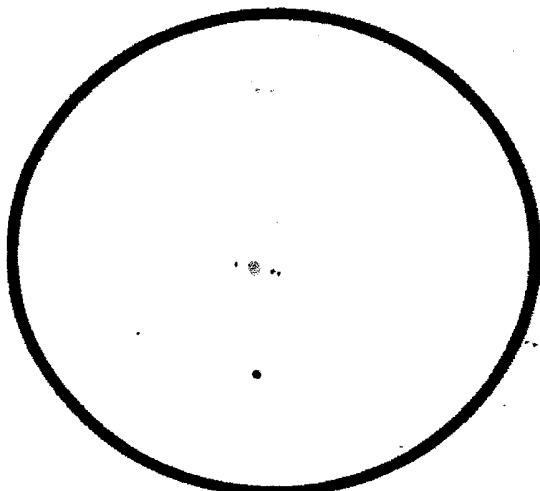
Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150x

WBF

D=26d



- What is the overall shape? Rand
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? Blue
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

Not seen 36x

D-A=no

No c.s.

Use filter

Description _____

Observing Log

Object type: Planetary Nebula

page

Object ID: IC 4997

Const.: Sge

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B Young

Date 9/22/06

Time 10:20 CST

Location RMCC B = +4

Seeing II Transparency II

Instrument XT-12

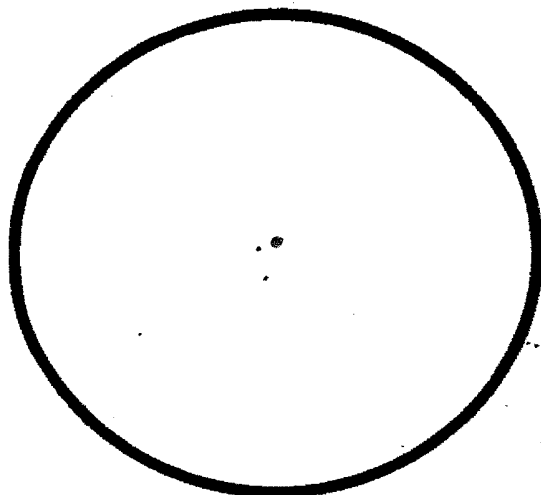
Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150x

WBF

D = 28d



- What is the overall shape? Stellar
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? None
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

Not seen 36x

Direct vision

D-A = no

Use filter

No c.s.

Description Very tiny - just noted tiny disk

Observing Log

Object type: Planetary Nebula

REVISIT
or

Object ID: NLC 6905

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B YOUNG

Date 11/23/6

Time 7:40 CST

Location LMCC B=+4

Seeing II- Transparency II

Instrument X512

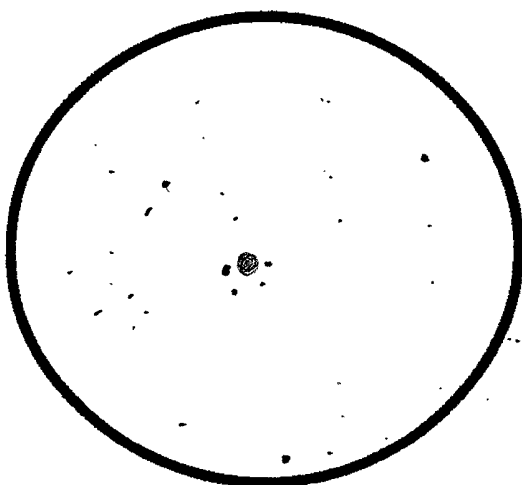
Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150x

WBMF

D=12



- What is the overall shape? Disk
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? Grey
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges? bar to E is ^{other} center star?
- Any suggestions for observing this nebula (Le/ filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

Net good 36x
Direct vision
D-A=no
No C.S.

Description _____

Observing Log

Object type: Planetary Nebula

OLDER
VIEW

Object ID: N6C 6905

Const.: _____

Observer BY

RA: _____ Dec.: _____

Date 9/19/13

Mag: _____ Size: _____

Time 10:10 CDT

Location RMCC

Seeing 8 Transparency 6

Instrument ETX 125

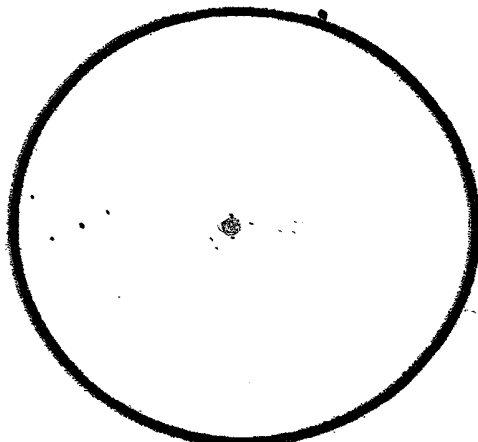
Size 125 mm

Eyepiece _____

Field of view _____ Power 153x

W/NF

D=23h (not up)



- What is the overall shape? D3h
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? silver-ghostly
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)? Field of view 1/2° N of where you might think w/ 8m's
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description WOW! very nice - why so little heard of it?

Observing Log

Object type: Planetary Nebula

Object ID: NGC 7009

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B Young

Date 9/23/6

Time 9:40 CDT

Location RMCC B = +4

Seeing II Transparency I-

Instrument XT-12

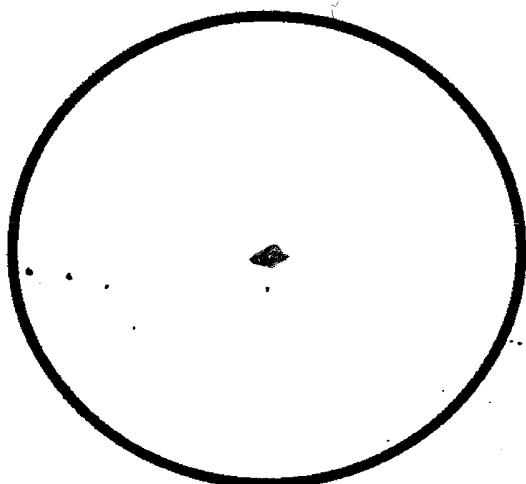
Size 12" f/5

Eyepiece 10mm

Field of view _____ Power 150x

WBF

D=0.2



- What is the overall shape? th
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? Blue
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

Direct vision

D-A = no

No C.S.

Visible but small

@ 36x

Filter not much help

Description _____

PNOc

Observing Log Object type: Planetary Nebula

Object ID: Perc 1

Const.: Peg

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B Young

Date 9/22/6

Time 9:50 CDT

Location RMCC B = +4

Seeing II Transparency I

Instrument Xt-12

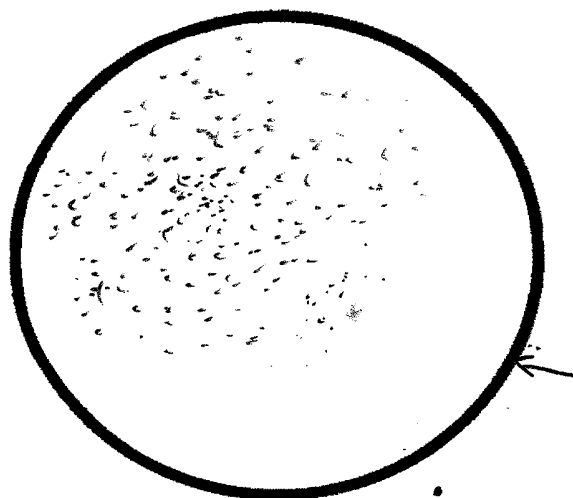
Size 12" f/5

Eyepiece 4mm

Field of view _____ Power 375X

w/WBWF

D=28d



- What is the overall shape? Round
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? None
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? M15!

Very high power to glimpse

Filter req'd

D-A=no

no c.s.

Description _____

PWOC

Observing Log

Object type: Planetary Nebula

Object ID: N6c 7094

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B Young

Date 9/22/6

Time 10:00 CDT

Location RMCC B = +4

Seeing II- Transparency I-

Instrument XT-12

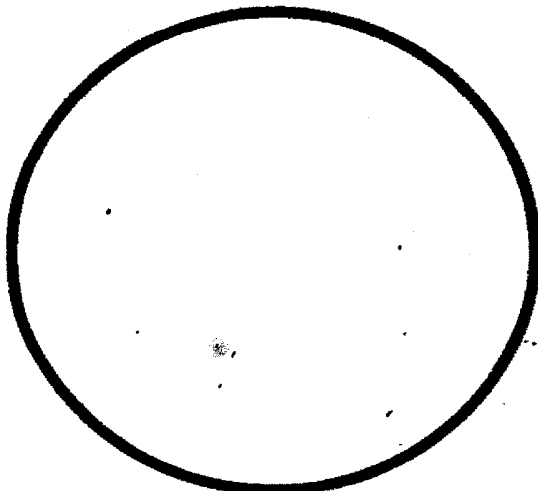
Size 12" F/5

Eyepiece 10mm

Field of view _____ Power 150x

WDF

D=12



- What is the overall shape? disk
- Is this planetary easy or fairly difficult to identify in your field?
- What is the color of this planetary? None
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges? b/w/c
- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No, M15 in border

Not seen 36x
Cis. seen
Direct vision
D-A = no

Description _____

Observing Log

Object type: Planetary Nebula

Object ID: NBC 7293

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B Yount

Date 9/23/6

Time 11:05 CDT

Location RMCC B=+4

Seeing II Transparency I-

Instrument X512

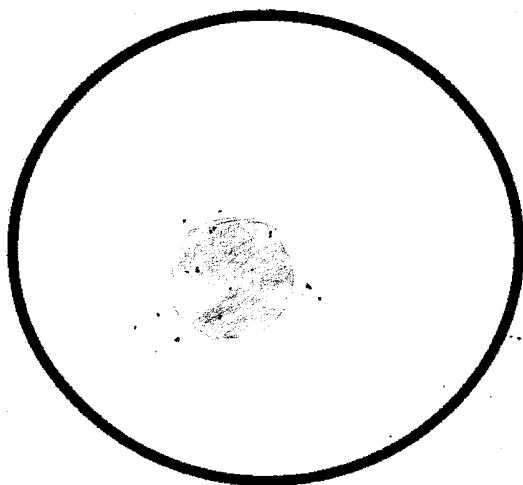
Size 12" f/5

Eyepiece 25mm

Field of view _____ Power 60x

WBF

D=0.2



- What is the overall shape? Round
- Is this planetary easy or difficult to identify in your field?
- What is the color of this planetary? v. sl. blue-gray
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges? see sketch - varying shades
- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? N6

Great @ low power
No c.s.
Filter helps a lot
AV brings out detail

D-A=no

Description _____

Planetary Nebula Club Observing Log

Observer's name: Brad Yang

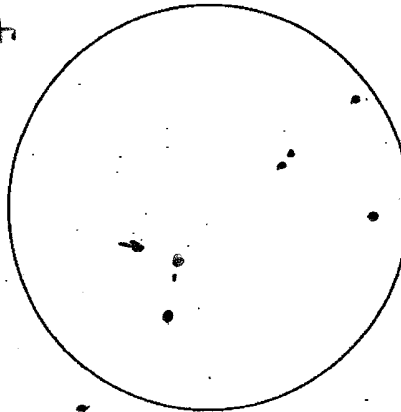
Object: <u>Jondh 900</u>	Location: <u>Adams Ranch</u>
Date: <u>10/6/7</u>	Time: <u>3:40</u>
Seeing: <u>3.90 II</u>	Transparency: <u>II</u>
Darkness of the site: <u>B1</u>	Moon phase: <u>—</u>
Aperture and focal ratio: <u>12" f/5</u>	Magnification(s) used: <u>37x, 150x</u>
Device-aided? <u>NO</u>	Color(s) seen: <u>—</u>
Filters used: <u>03</u>	Is filter required to detect the PN? <u>Nearly</u>
Is the central star visible? <u>NO</u>	☒ Direct or averted vision?

How does the planetary respond to different magnifications?

Needs it

Description: (Sketch is optional unless a negative observation.)

Brsg field helps locate it.



Planetary Nebula Club Observing Log

Observer's name: _____

B. Young

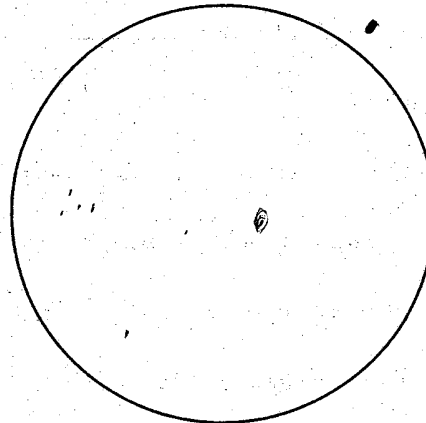
Object: <u>N6C 2346</u>	Location: <u>PMCC</u>
Date: <u>3/16/7</u>	Time: <u>10:35 CDT</u>
Seeing: <u>II</u>	Transparency: <u>II</u>
Darkness of the site:	Moon phase: <u>27d</u>
Aperture and focal ratio: <u>125mm</u>	Magnification(s) used: <u>25mm = 10mm =</u>
Device-aided? <u>NO</u>	Color(s) seen: <u>Grey</u>
Filters used: <u>WBNF</u>	Is filter required to detect the PN? <u>No</u>
Is the central star visible? <u>yes - 11m</u>	Direct or averted vision? <u>DV</u>

How does the planetary respond to different magnifications?

Not really seen w/ 25mm

Description: (Sketch is optional unless a negative observation.)

Small disk w/ obvious CS.
Not much difference w/w/o
WBNF - power helps.



Planetary Nebula Club Observing Log

Observer's name: B. Young

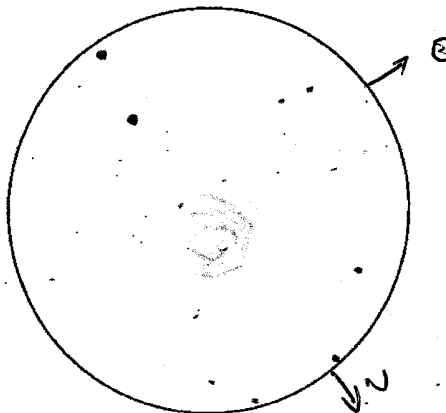
Object: <u>Abell 121</u>	Location: <u>RMCC</u>
Date: <u>1/12/8</u>	Time: <u>3:00 UT</u>
Seeing: <u>II</u>	Transparency: <u>I-</u>
Darkness of the site: <u>4</u>	Moon phase: <u>4A</u>
Aperture and focal ratio: <u>12" F/5</u>	Magnification(s) used: <u>73, 67x</u>
Device-aided? <u>NO</u>	Color(s) seen: <u>NO</u>
Filters used: <u>03</u>	Is filter required to detect the PN? <u>HELPS</u>
Is the central star visible? <u>NO</u>	Direct or averted vision? <u>Direct</u>

How does the planetary respond to different magnifications?

HARD TO STAY W/ LOW POWER

Description: (Sketch is optional unless a negative observation.)

Very large glow
could see in 73x
w/no 03, but
it sure helped
with 25mm.
I see it is brighter
off NE side.



Planetary Nebula Club Observing Log

Observer's name: B YOUNG

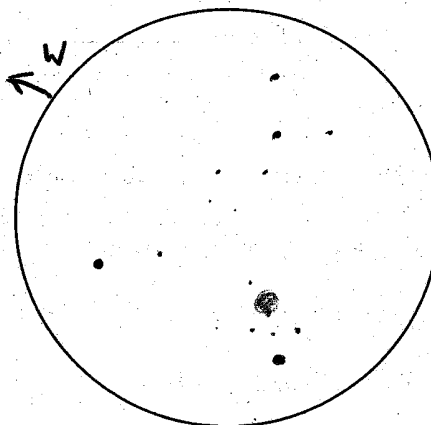
Object: <u>NGC 2610</u>	Location: <u>LMCC</u>
Date: <u>4/16/17</u>	Time: <u>0:10</u>
Seeing: <u>II</u>	Transparency: <u>II</u>
Darkness of the site: <u>B 4</u>	Moon phase: <u>—</u>
Aperture and focal ratio: <u>12"</u>	Magnification(s) used: <u>10mm</u>
Device-aided? <u>No</u>	Color(s) seen: <u>None</u>
Filters used: <u>WBNF</u>	Is filter required to detect the PN? <u>No</u>
Is the central star visible? <u>off center</u>	<u>Direct</u> or averted vision?

How does the planetary respond to different magnifications?

Yes - seen in 26x but much brighter in 10mm

Description: (Sketch is optional unless a negative observation.)

Nice medium gray
disk w/ star on edge



1

2

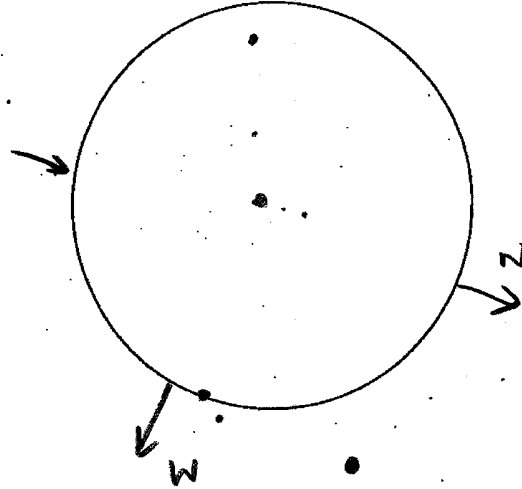
3

How does the planetary respond to different magnifications?

Not noticed until 150x

Description: (Sketch is optional unless a negative observation.)

Small, round disk
jumps out v/o 3.



Planetary Nebula Club Observing Log

Observer's name: B yanz

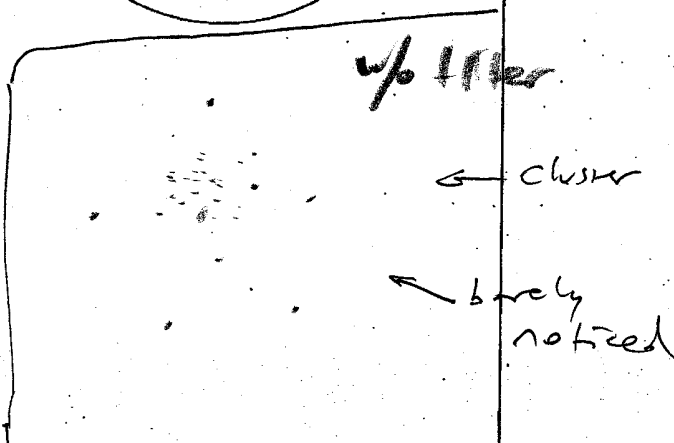
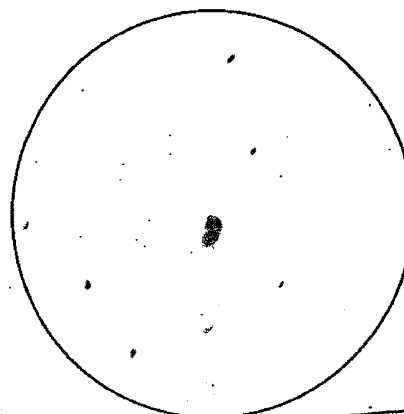
Object: <u>NGC 2818 / 2818A</u>	Location: <u>LMCC</u>
Date: <u>2/2/8</u>	Time: <u>10:15 EST</u>
Seeing: <u>II-</u>	Transparency: <u>II</u>
Darkness of the site: <u>B+U</u>	Moon phase: <u>-</u>
Aperture and focal ratio: <u>12" f/5</u>	Magnification(s) used: <u>75, 150</u>
Device-aided? <u>No</u>	Color(s) seen: <u>NONE</u>
Filters used: <u>O3</u>	Is filter required to detect the PN? <u>No, but some response</u>
Is the central star visible? <u>no</u>	<u>Direct</u> or averted vision?

How does the planetary respond to different magnifications?

Needs 150x to see

Description: (Sketch is optional unless a negative observation.)

with O3 filter →
Nice 2 lobed
glow, sharp edges
No detail or CS



Object ID: NGC 3242

Const.: Hyl

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B.Y.

Date 3/9/4

Time 9:30-9:42 CST

Location Home (!)

Seeing 8 Transparency 5

Instrument ETX 125

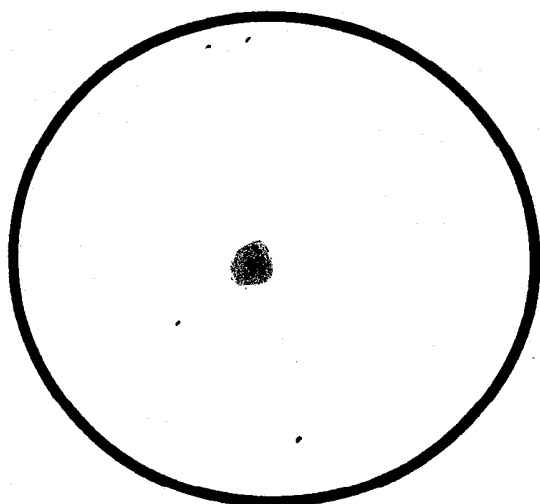
Size 125

Eyepiece 6

Field of view _____ Power 316

w & w/o neb filter

also 153x (12.4mm w/filter)



- What is the overall shape? Round/oval
- Is this planetary easy or difficult to identify in your field? even @ 47x
- What is the color of this planetary? Blue-grey
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse? extended w/power & filter
- Is the center slightly brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)? look for dbl to N
- Are there any other deep-sky objects in the same field of view? If so, what? No & shape

Description SEEM TO HAVE SOME INTERNAL STRUCTURE

(ESP. @ 316x) BUT HARD TO DESCRIBE -

HOLLOW TUBES ??

COPY
FOR
PNOC

Planetary Nebula Club Observing Log

Observer's name: _____

B. Young

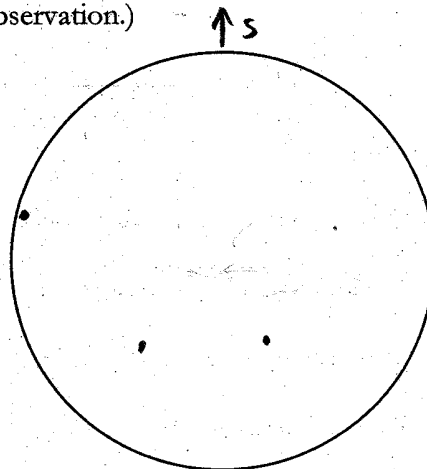
Object: ABELL 35	Location: RMCC
Date: 4/16/17	Time: 1:00
Seeing: II	Transparency: II
Darkness of the site: B4	Moon phase: —
Aperture and focal ratio: 12"	Magnification(s) used: 150x
Device-aided? NO	Color(s) seen: —
Filters used: WBNF	Is filter required to detect the PN? ☒
Is the central star visible? NO	Direct or averted vision? ☒

How does the planetary respond to different magnifications?

Didn't try lower mag.

Description: (Sketch is optional unless a negative observation.)

Extremely faint wisp
S&SSE of 2 stars
as shown. Very difficult,
AV req'd.



Planetary Nebula Club
Observing Log

REUSIT

w/o III

Observer's name: B. Yarb

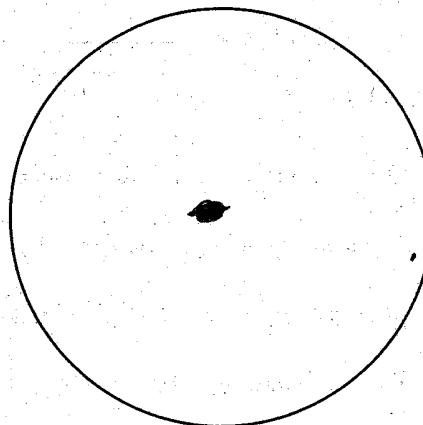
Object: <u>NGC 7009 (KNEB)</u>	Location: <u>Adams Ranch</u>
Date: <u>7/5/17</u>	Time: <u>3:30</u>
Seeing: <u>II</u>	Transparency: <u>II</u>
Darkness of the site: <u>B +1</u>	Moon phase: <u>NEW</u>
Aperture and focal ratio: <u>12" f/5</u>	Magnification(s) used: <u>150x</u>
Device-aided? <u>No</u>	Color(s) seen: <u>Grey</u>
Filters used: <u>03</u>	Is filter required to detect the PN? <u>No</u>
Is the central star visible? <u>No</u>	☒ Direct or averted vision?

How does the planetary respond to different magnifications?

Gets better!

Description: (Sketch is optional unless a negative observation.)

Wow! w/o ans (mgs)
and much brighter
w/o OIII on



Planetary Nebula Club Observing Log

RENSIT
w/
BINOCs

Observer's name: B. Yount

Object: <u>M42 7213 H&IX</u>	Location: <u>Adams Ranch</u>
Date: <u>7/15/7</u>	Time: <u>3:00</u>
Seeing: <u>II</u>	Transparency: <u>II</u>
Darkness of the site: <u>B+1</u>	Moon phase: <u>new</u>
Aperture and focal ratio: <u>60mm</u>	Magnification(s) used: <u>12x60 Binocs</u>
Device-aided? <u>no</u>	Color(s) seen: <u>-</u>
Filters used:	Is filter required to detect the PN? <u>No</u>
Is the central star visible? <u>No</u>	<u>Direct</u> or averted vision?

How does the planetary respond to different magnifications?

Description: (Sketch is optional unless a negative observation.)

