

Spectrograph ECHELLE

Intensified Reticon

TO CAM 2-2Grating 3002

Log Sheet

RAW/RET 10Telescope 60"Date 31 JAN -
1 Feb. 1986Observer RPSDisk ORO 880

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1			↓	90s	
		2	H136202	15:16:45	01:57:12		2m IAU Standard (check for sky)
		3			↑	90s	
		4			↓	90s	
		5	DWN-SKY	stow		5m	
		6			↑	90s	
		7				120 MIN	
		8				79 MIN	
FEB 2-3		9			↓	90s	5187A 80 μ SLIT
		10				5 MIN	
		11			↑	90s	
		12			↓		
		13	S 021 788	00:46:19	56:48:10		3 MIN
		14			↓		
		15	GLS 348	00:46:08	57:33:42		4 MIN
		16			↓		
		17	S 021 788	00:46:19	56:48:10		2 MIN
		18			↑		
		19			↓		
		20	S 076 588	04:20:45	22:50:59		2 MIN
		21			↓		
		22	GLS 169	04:26:02	21:48:57		8 MIN
		23			↓		
		24	S 076 588				2 MIN
		25			↑		
		26			↓		
		27	GLS 176	04:40:00	18:52:		79 MIN 79 42 cuts/px
		28			↑		
		29					
		30					
		31					
		32					

Intensified Reticon TO CAM 2-2

Spectrograph ECHELLE Log Sheet RAWRET 10

Grating 200 Observer Mag

Telescope 61" Date 2/3 Feb 86 Disk ORO 881

Change.... File ID RA Dec L/R Exposure Comments

Change....	File	ID	RA	Dec	L/R	Exposure	Comments
		1					
		2	S 133 424	6:31:51	-03:02:03		2 MIN
		3				↑↓	
		4	Gls 234	6:26:52	-02:46:42		16 MIN 11.1 16 cts/px
		5				↓↑	
		6	Gls 234	6:26:52	-02:46:42		14 MIN
		7				↓↑	
S 133 424		8	Gls 234	6:31:51	-02:02:03		1 MIN
		9				↑	
		10	S 133 424			↓	
Gls 301		11	Th-Ar	8:10:50	-13:45:48		14 MIN 9.4
		12				↑	
		13				↓	
		14	Gls 319	8:40:02	9:44:18		12 MIN
		15				↑	
		16	Gls 319c	8:40:09	9:44:06		18 MIN
		17				↑	
		18				↓	
		19	Gls 334	09:04:19	-09:36:20		10 MIN 9.5 45 cts/px
		20				↑	
		21				↓	
		22	Gls 267	07:06:37	38:36:48		18 MIN 11.5/15
		23				↑	
		24				↓	
		25	S 043 627	11:06:51	43:28:44		
		26				↑	
		27				↓	
		28	Gls 4127	11:02:43	43:47:29		6 MIN
		29				↓	
		30	S 043 627	11:06:51	43:28:44		1 MIN
		31				↑	
		32					

Spectrograph ECHELLE

Intensified Reticon

TO CAM 2-2

Grating 300L

Log Sheet

RAW RET 10

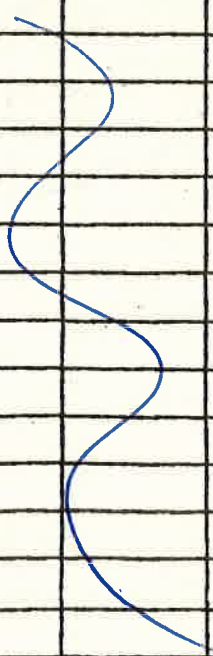
Telescope 61"Date 2/3 Feb 86Observer MAZEHDisk ORD 332

Change.... File ID 1950.0 RA Dec L/R +/- Exposure Comments

Change....	File	ID	1950.0	RA	Dec	L/R	+/-	Exposure	Comments
		1					↓		
		2		Gls 508	13:17:36	48:02:24			
		3		Th-Ar			↑		
		4		Th-Ar			↓		
		5		S063499	13:19:55	+30:33:12		1 MIN	6.9/80
		6		Th-Ar			↓		
		7		Gls 509AB	13:21:13	+29:29:52		7 MIN	
		8		Th-Ar			↑		
		9		S063499	13:19:55	+30:33:12		1 MIN	
		10		Th-Ar			↑		
		11		Th-Ar			↓		
		12		S082651	13:03:56	+22:53:00		1 MIN	5.9/100
		13		Th-Ar			↑		
		14		Th-Ar			↓		
		15		Gls 499	13:03:49	+20:59:40			clouds coming stop/go
		16		Th-Ar			↑		
		17		Th-Ar			↓		
		18		H144221	16:00:57	58:41:54		4 MIN	
		19		Th-Ar			↑		
		20		Th-Ar			↓		
		21		Gls 338A	09:10:52	+52:53:43		4 MIN	
		22		Th-Ar			↓		
		23		Gls 338B	09:10:54	52:53:46		4 MIN	
		24		Th-Ar			↑		
		25		Th-Ar			↓		
		26		S043285	10:16:21	48:38:52		1 MIN	
		27		Th-Ar			↓		
		28		Gls 380	10:08:13	47:42:09		2 MIN	clear again
		29		Th-Ar			↓		
		30		S043285	10:16:21	48:38:52		2 MIN	
		31		Th-Ar			↑		
		32							

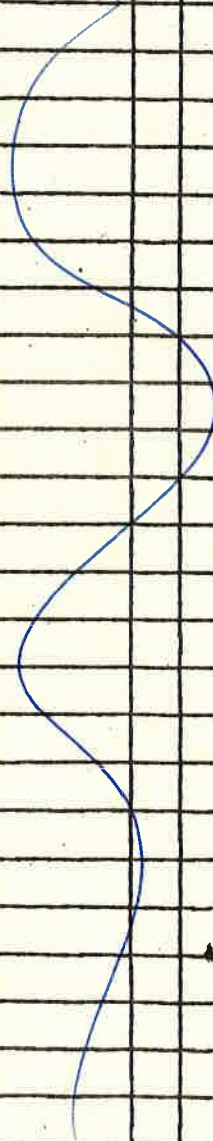
Spectrograph ECHELLE Intensified Reticon TO CAM 2-2
 Grating 300l Log Sheet RAW RET 10
 Telescope 6" WYETH Date FEB 2-3 1986 Observer MAZEH
 Disk ORO 383

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1	Th-AR		↓		
	66	644A	16:52:46	-8:15:17		10 MIN	9.1/40
		3	Th-AR		↑		
		4	Th-AR		↓		
	S 065	595	16:48:50	32:38:14		2 MIN	VARIABLE CLOUDS
		6	Th-AR		N		
	66	638	16:43:14	33:35:54		5 MIN	9.1/50
		8	Th-AR		↑		
	S 065	595	16:48:50	32:38:14		1 MIN	
		10	Th-AR		↑		
		11	Th-AR		↓		
	S 083	312	14:20:02	29:35:50		2 MIN	
		13	Th-AR		↑		
	66	546	14:19:45	29:51:28		5 MIN	~2% Background
		15	Th-AR		N		
	S 083	312	14:20:02	29:35:50		2 MIN	o.s.c.
		17	Th-AR		↑		
		18					
		19					
		20					
		21					
		22					
		23					
		24					
		25					
		26					
		27					
		28					
		29					
		30					
		31					
		32					



Spectrograph ECHELLE Intensified Reticon TO CAM 2/3
 Grating 3002 Log Sheet RAW RET 10
 Telescope 6" WYETT Date FEB 2-3 1986 Observer _____
 Disk ORO 884

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
	1	TH-AR			↓	90 ^s	5187A 80 μ slit
	2	SKY DAWN				7 min	PTLY CLOUD
	3	TH-AR			↑	90 ^s	
	4	INCANDS				120 min	
	5	INCANDS				120 min	
	6						
	7						
	8						
	9						
	10						
	11						
	12						
	13						
	14						
	15						
	16						
	17						
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	30						
	31						
	32						



Spectrograph ECHELLE Intensified Reticon TO CAM 2/14
 Grating 300L Log Sheet RAW RET 10
 Telescope 6" WYETH Date FEB 13-14 1986 Observer GS/AN
 Disk 020 885

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1			↓	90 ^s	5187A 80μ SLIT
		2				5 MIN	1730 (CLEAR)
		3			↑	90 ^s	
		4			↓	90 ^s	6563A 80μ
		5	λ AND 23 35 06	46 11		8 ^m	ND = 1 FILTER
		6			↑	90 ^s	
		7			↑	90 ^s	
		8	E AUR 05 00 58	43 48		4 1/2 ^m	ND = 1 FILTER
		9			↑	90 ^s	
		10			↓	90 ^s	
		11	λ AUR 05 13 00	45 57		6 ^m	ND = 2 FILTER
		12			↑	90 ^s	
		13			↓	90 ^s	
		14	W ORI 05 36 33	04 06		3 ^m	
		15			↑	90 ^s	
		16			↓	90 ^s	
		17	λ ORI 05 52 27	07 24		6 ^m	ND = 2 FILTER
		18			↑	90 ^s	
		19			↓	90 ^s	5199A 80μ SLIT
		20	E G AND 00 41 53	40 24	3		
		21			↑	90 ^s	
		22			↓	90 ^s	5187A
		23	(18) 06 22 15	14 23 49		8 ^m	ASTEROID
		24			↑	90 ^s	
		25			↓	90 ^s	
		26	TH-AR H 26162 04 06 15	19 29		3 ^m	TAU RV STAND
		27	H 26162 04 06 15	19 29	↑	90 ^s	
		28			↓	90 ^s	
		29	U 136 07 25 50	32 06		3 ^m	
		30			↑	90 ^s	
		31					
		32					

Intensified Reticon TO CAM 2-14

Spectrograph ECHELLE Log Sheet RAW/RET 10

Grating 300L Observer nan

Telescope 5H WYETH Date 2/13-4/86 Disk ORU 887

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1	TH-AR		↓	90 ^s	5187 80N
		2	U107	05 42 51 61 28		4 1/2 min	
		3	TH-AR		↑	90 ^s	
		4	TH-AR		↓	90 ^s	
		5	U121	06 45 28 60 23		2 min	
		6	TH-AR		↑	90 ^s	
		7	U122	06 46 50 60 22		3 min	
		8	TH-AR		↑	90 ^s	
		9	TH-AR		↓	90 ^s	(G5)
		10	U-145	07 37 59 49:21:01		6 MIN	9.7/
		11	TH-AR		↑	90 ^s	
		12	TH-AR		↓	90 ^s	
		13	U-165	08:41:56 41:52:12		2 MIN	8.5/
		14	TH-AR		↑	90 ^s	
		15	TH-AR		↓	90 ^s	
		16	U-177	09:34:22 22:55:30		3 MIN	9.5/
		17	TH-AR		↑	90 ^s	
		18	TH-AR		↓	90 ^s	
		19	U-174	08:58:31 15:28:00		3 MIN	9.4/ UPPER ONE
		20	TH-AR		↕	90 ^s	
		21	U-175	08:58:31 15:27:54		3 MIN	9.4/ LOWER ONE
		22	TH-AR		↑	90 ^s	
		23	TH-AR		↓	90 ^s	
		24	U-177	09:06:29 31:01:54		4 MIN	10.0/
		25	TH-AR		↑	90 ^s	
		26	TH-AR		↓	90 ^s	
		27	U-158	08:23:06 52:21:00		3 MIN	9.7/ EASTERN STAR
		28	TH-AR		↕	90 ^s	
		29	U-159	08:23:06 52:21:00		5 MIN	10.1/ WESTERN STAR
		30	TH-AR		↑	90 ^s	
		31					
		32					

Intensified Reticon

TO CAM 2-14

Spectrograph ECHELLE Log Sheet

Grating 3002 Observer GS

Telescope 61" WYETH Date FEB 13-14 1986 Disk ORO 888

RAW RET 10

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1			↓	90°	5187A 80μSLIT
		2	10:42:30	38:46:24		3 MIN	9.2/ SPACE MOTION STARS
		3			↑	90°	
		4			↓	90°	
		5	11:08:20	30:43:12		2 MIN	8.3/ EASTERN ONE
		6			↓	90°	
		7	11:08:20	30:43:12		4 MIN	10.0/ WESTERN ONE
		8			↑	90°	
		9			↓	90°	
		10	11:48:33	35:32:48		3 MIN	9.8/
		11			↑	90°	
		12			↓	90°	
		13	W11449	13:08:50	31:05:34	8 MIN	9.3/15 SA 57
		14			↓	90°	
		15	W11450	13:08:51	31:05:32	3 MIN	7.0/15
		16			↑	90°	
		17			↓	90°	
		18	TXC Ven	12:42:18	37:02:15	20 MIN	9.0/ SYMBIOTIC
		19			↑	90°	
		20			↓	90°	SPACE MOTION
		21	U-245	12:50:28	34:00:00	4 MIN	9.4/ SOME CLDS
		22			↑	90°	
		23			↓	90°	
		24	U-256	13:17:12	35:24:12	5 MIN	9.5/
		25			↑	90°	
		26			↓	90°	
		27	U-258	13:17:22	33:36:36	10 MIN	10.6/
		28			↑	90°	
		29			↓	90°	
		30	U-260	13:21:14	29:29:42	3 MIN	8.9/
		31			↑	90°	
		32					

Intensified Reticon TO CAM 2/14

Spectrograph ECHELLE Log Sheet RAW/RET 10

Grating 500 Observer GS

Telescope 61" WYETH Date FEB 13-14 1986 Disk ORO 889

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1			↓	90°	5187A 80μSLIT
		2	U 281	13:46:48	27:14:00	2 min	7.59/ UPPER STAR
		3	TH-AR			90°	
		4	U 282	13:46:48	27:14:00	2 min	8.0/ LOWER STAR
		5	TH-AR			90°	
		6	TH-AR			90°	
		7	U 283	13:49:00	26:33:24	17 min	11.0/ CLDS DURING EXPOSURE
		8	TH-AR			90°	
		9	TH-AR			90°	
		10	U 297	14:19:48	29:51:42	11 min	8.5/
		11	TH-AR			90°	HOLD FOR CLDS
		12	TH-AR			90°	
		13	U 312	15:06:54	24:12:12	4 min	9.3/
		14	TH-AR			90°	
		15	TH-AR			90°	
		16	U 328	15:49:46	11:01:30	4 min	9.3/
		17	TH-AR			90°	
		18	TH-AR			90°	
		19	U 329	15:51:57	14:25:12	4 min	9.7/
		20	TH-AR			90°	
		21	TH-AR			90°	
		22	H136202	15:16:45	01:57:11	2 min	5.1/ IAU STANDARD
		23	TH-AR			90°	
		24	TH-AR			90°	
		25	SKY DAWN			6 min	(0627)
		26	TH-AR			90°	(SIGNAL PROBLEMS)
		27	INCANDS			120 min	19:30 START
		28	"			"	
		29	"			"	
		30					
		31					
		32					

Spectrograph ECHELLE Intensified Reticon TO CAM 2/15
 Grating 300 Log Sheet RAW RET 10
 Telescope WYETH Date FEB 14-15 1986 Observer D. Latham
 Disk ORO 890

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1	Th-Ar	log cts		↓	Grating Tests 5187
		2	ORD300				
		3	ORD300	2.540			
		4	ORD300	2.543			
		5	Th-Ar			↓	
		6	FLWD300	2.552			
		7	FLWD300	2.563			
		8	Th-Ar			↓	
		9	ORD300	2.571			
		10	ORD300	2.561			
		11	1 NCAAD			120	Adjusted: Rotation & translation
		12	"			120	
		13	"			120	
		14	"			120	
		15	"			120	
		16	"			120	
		17	"			63 MIN	
FEB 15-16		18	TH-AR			↓ 90°	5187A 80 μSLIT
		19	SKY			5 MIN	CLEAR
		20	TH-AR			↑ 90°	
		21	TH-AR			↓ 90°	
		22	HEG162	04:06:14	19:28:43		2 MIN 5.5 1 AU STANDARD
		23	TH-AR			↑ 90°	
		24	TH-AR			↓ 90°	Halo binaries
		25	G71-3	01:20:17	00:27:12		20"
		26	TH-AR			↑ 90°	
		27	G71-3	"	"		22"
		28	TH-AR			↑ 90°	
		29	TH-AR			↓ 90°	
		30	G34-16	01:13:55	18:45:30		3"
		31	TH-AR			↑ 90°	
		32					

Spectrograph ECHELLE

Intensified Reticon

TO CAM 2/15

Grating 300 l

Log Sheet

RAWRET 10

Telescope 61" Wyeth

Date 2/15-16/86

Observer RJD

Disk ORO 891

Change.... File ID 1950.0 RA Dec L/R Exposure Comments Halo Binaries

Change....	File	ID	1950.0	RA	Dec	L/R	Exposure	Comments
		Th Ar				↓	90 ^s	
	G 71-27		01:39:22	01:39:00			5 ^m	
		Th Ar				↑	90 ^s	
		Th Ar				↓	90 ^s	
	G 97-48		05:56:27	04:10:36			22 ^m	Increasing Clouds, Crack
		Th Ar				↑↓	90 ^s	↑ Computer Crack, Bad Part
	G 97-48		"	"			21 ^m	
		Th Ar				↑	90 ^s	
		Th Ar				↓	90 ^s	
	G 43-7		09:47:36	05:23:06			14 ^m	G 43-7
		Th Ar				↑↓	90 ^s	
	G 43-7		"	"			11 1/4 ^m	
		Th Ar				↑	90 ^s	
		Th Ar				↓	90 ^s	
	G 161-82		09:48:56	-4:24:18			16 1/2 ^m	
		Th Ar				↑↓	90 ^s	
	G 161-82		"	"			16 ^m	
		Th Ar				↑↓	90 ^s	
	G 161-82		"	"			17 ^m	Seeing 10" - deteriorating
		Th Ar				↑	90 ^s	
		Th Ar				↓	90 ^s	
	(1)		11:16:28.5	22:35:29			4 ^m	Asteroid
		Th Ar				↑	90 ^s	
		Th Ar				↓	90 ^s	
	H 89449		10:17:01	19:43:31			2 ^m	IAU Standard
		Th Ar				↑	90 ^s	
		Th Ar				↓	90 ^s	
	+362165		11:10:00	36:01:00			8 ^m	
		Th Ar				↑	90 ^s	
		Th Ar				↓	90 ^s	
	G 58-41		11:02:35	25:28:24			2 ^m	
		Th Ar				↑	90 ^s	

Needs to fix →
params
fix date,
time
etc. →

[
[
[

TO CAM 2/16

Spectrograph ECHELLE Intensified Reticon
 Log Sheet
 Grating 300 L Observer RJD
 Telescope 61" Wyeth Date 2/15-16/86 Disk ORO 892

Change.... File ID 1950.0 RA Dec L/R Exposure Comments Halo Binaries

Change....	File	ID	1950.0	RA	Dec	L/R	Exposure	Comments
						↑/↓		
		1				↓	90 ^s	
		2	G163-39	11:00:25	-3:06:48		3 ^m	
		3	THAr			↑	90 ^s	
		4	THAr			↓	90 ^s	
		5	G10-26	11:26:25	01:22:12		3 ^m	
		6	THAr			↑	90 ^s	Halo Binaries ↑
		7	THAr			↓	90 ^s	SAS7 ↓
		8	W11449	13:08:50.6	31:05:34		7 ^m	
		9	THAr			↑↓	90 ^s	
		10	W11450	13:08:51.1	31:05:32		15 ^m	
		11	THAr			↑↓	90 ^s	
		12	W13777?	13:11:18.8	30:02:42		7 ^m	ID?
		13	THAr			↑↓	90 ^s	
		14	W13784	13:11:20.2	30:04:58		2 ^m	
		15	THAr			↑↓	90 ^s	
		16	W13777	13:11:18.8	30:02:42		2 ^m	
		17	THAr			↑↓	90 ^s	
		18	W22389	13:07:06.9	30:42:04		7 ^m	
		19	THAr			↑↓	90 ^s	
		20	W21939	13:04:52.3	31:03:24		10 ^m	
		21	THAr			↑↓	90 ^s	
		22	W13781	13:11:22.7	30:03:52		5 ^m	
		23	THAr			↑↓	90 ^s	
		24	W12971	13:11:12.2	30:28:28		7 ^m	
		25	THAr			↑↓	90 ^s	
		26	W12966	13:11:03.8	30:28:38		16 ^m	
		27	THAr			↑↓	90 ^s	
		28	W12965	13:11:02.8	30:28:52		19 ^m	
		29	THAr			↑↓	90 ^s	
		30	W12965	"	"		15 ^m	
		31	THAr			↑↓	90 ^s	
		32						

Spectrograph ECHELLE

Intensified

Reticon

TO CAM 2/16

Grating 300 l

Log Sheet

RAW/RET 10

Telescope 61" WyethDate 2/15-16/86Observer RJDDisk ORO 893

Change.... File ID 1950.0 RA Dec L/R Exposure Comments SA 57

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
	1	W11310	13:10:00.5	31:05:52		16 ^m	
	2	ThAr			↑↓	90 ^s	
	3	W11310	"	"		17 ^m	
	4	ThAr			↑↓	90 ^s	
	5	W40903	13:09:06.6	29:08:01		6 ^m	
	6	ThAr			↑↓	90 ^s	
	7	W41124	13:08:25.0	28:48:39		6 ^m	
	8	ThAr			↑↓	90 ^s	
	9	W41387	13:10:45.8	28:54:02		13 ^m	
	10	ThAr			↑↓	90 ^s	
	11	W61774	13:01:14.9	28:43:08		7 ^m	
	12	ThAr			↑↓	90 ^s	
	13	W61473	13:01:22.2	28:53:25		16 ^m	
	14	ThAr			↑↓	90 ^s	
	15	W60232	13:00:03.6	29:12:31		11 ^m	
	16	ThAr			↑↓	90 ^s	
	17	W33435	12:59:49.9	30:18:39		6 ^m	
	18	ThAr			↑↓	90 ^s	
	19	W31281	12:57:14.4	31:17:23		7 ^m	
	20	ThAr			↑↓	90 ^s	
	21	W60997	12:57:37.6	28:47:31		13 ^m	
	22	ThAr			↑↓	90 ^s	
	23	W33436	12:59:48.6	30:17:44		15 ^m	
	24	ThAr			↑↓	90 ^s	
	25	W11450	13:08:51.1	31:05:32		17 ^m	Seeing too bad for W11449
	26	ThAr			↑↓	90 ^s	
	27	W13233	13:09:52.8	30:14:29		2 ^{1/2} ^m	
	28	ThAr			↑↓	90 ^s	
	29	W32007	13:01:28.5	31:01:30		4 ^{1/2} ^m	
	30	ThAr			↑↓	90 ^s	
	31	W33111	13:00:15.1	30:32:57		2 ^{1/2} ^m	
	32						

Intensified Reticon TO CAM 2/16

Spectrograph ECHELLE Log Sheet RAWRET 10

Grating 3002 Observer RJD

Telescope 61" Wyeth Date 2/15-16/86 Disk ORO 894

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1			↑↓	90 ^s	
		2	W42576	13:08:30.8	28:37:18		3 ^m
		3			↑↓	90 ^s	
		4	W44591	13:09:04.3	27:50:52		6 ^m
		5			↑	90 ^s	
		6			↓	90 ^s	
		7	H114762	13:09:54.5	17:46:55		4 ^m JAU R.V. STD.
		8			↑	90 ^s	
		9			↓	90 ^s	
		10	W44447	13:09:32.4	28:07:52		2 ^m
		11			↑	90 ^s	
		12			↓	90 ^s	
		13				6 ^m	
		14			↑	90 ^s	
		15				120 ^m	
		16				120 ^m	
		17				53 MIN	
2 14/17		18			↓	90 ^s	S187A 80μ SLIT
		19				5 ^m	THIN CURR
		20			↑	90 ^s	
		21			↓	90 ^s	
		22	H26162	04:06:14	19:28:43		2 ^{min} S6/AU STANDARD
		23			↑	90 ^s	
		24			↓	90 ^s	
		25	(18)	06:22:24.2	14:44:57		20 ^m Asteroid, m _v = 10.8
		26			↑	90 ^s	
		27			↓	90 ^s	
		28	G95-57A	03:43:36	41:17:25		2 ^m Ito's Binaries
		29			↑↓	90 ^s	
		30	G95-57B	03:43:37	41:17:25		3 ^m
		31			↑	90 ^s	
		32					

Spectrograph ECHELLE Intensified Reticon
 Log Sheet
 Grating 3000
 Telescope 61" WYETH Date FEB 20-21 1986

TO CAM 2/23
RAW/RET 10

Observer _____
 Disk ORO 897

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
	1	TH-AR			↓	90 ^s	5187A 80μ SLIT
	2	SKY EVE				5 MIN	PTLY CLDY (1700)
2/22-3/86	3	TH-AR			↑	90 ^s	
	4	TH-AR			↓	90 ^s	
	5	SKY EVE				5 ^m	PTLY CLDY
	6	TH-AR			↑	90 ^s	
	7	TH-AR			↓	90 ^s	cloudy
	8	H29139	04:33:00	+16:25:00		2 1/2 ^m	IAU standard 1.0' - only thing bright enough!
2/23-24	9	TH-AR			↑	90 ^s	
	10	TH-AR			↓	90 ^s	
	11	G95-54	03 43 36	+41 17 25		6 ^m	SEE COMMENTS
	12	TH-AR			↑	90 ^s	
	13	TH-AR			↓	90 ^s	
	14	S133165	06 17 35	-05 26		9 1/2 ^m	Halo
	15	TH-AR			↑	90 ^s	
	16	TH-AR			↓	90 ^s	
	17	G112-54	07 52 02	-01 17		7 ^m	Halo
	18	TH-AR			↑	90 ^s	
	19	TH-AR			↓	90 ^s	
	20	G114-26	08:56:39	-03:49		12 ^M	Full Moon Halo
	21	TH-AR			↑	90 ^s	
	22	TH-AR			↓	90 ^s	
	23	G15 301	08:10:50	-13:45		10 ^M	sky counts ~10 M stars
	24	TH-AR			↑	90 ^s	
	25	TH-AR			↓	90 ^s	
	26	G15 334	09:04:19	-08:36		10 ^M	sky counts 10-12 M stars
	27	TH-AR			↑	90 ^s	
	28	TH-AR			↓	90 ^s	
	29	H08521	09:47:54	+4:34:42		2 ^m	
	30	TH-AR			↑	90 ^s	
	31						
	32						

Spectrograph ECHELLE

Intensified Reticon

TO CAM 2/23

Grating _____

Log Sheet

RAW/RET 10

Telescope WyeDate 23/24 FebObserver MAZEHDisk 898

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1			↓		
		2	W11450	13:08:50	31:05	12M	10-15% sky 30-40 cuts/s
		3	Th-Ar		↑	90 ^s	
		4	Th-Ar		↓		
		5	W13784	13:11:20	30:04	4M	100/7 ^m SAS7
		6	Th-Ar		↑		
		7	W13777	13:11:18	30:02	4M	40/8 ^m 8 ^m
		8	Th-Ar		↑		
		9	W22389	13:07:06	30:42:04	10 ^M (2)	100/9 ^m 5-8% sky.
		10	Th-Ar		↑		
		11	W40903	13:09:06	29:08	10 ^M	
		12	Th-Ar		↑		
		13	W61774	13:01:15	28:43	12 ^M	7-9% sky
		14	Th-Ar		↑		
		15	Th-Ar		↓		
		16	GLS 338A	9:10:52	52:53:43	7M	M Stars Thin variable clouds
		17	Th-Ar		↑		
		18	GLS 338B	9:10:54	52:53:46	7M	M Stars
		19	Th-Ar		↑		
		20	Th-Ar		↓		
H 144 284		21	H 144 284	16:0:57	+58:41	2M	Triple
		22	Th-Ar		↑		
		23	Th-Ar		↓		
		24	W 44447	13:09:32	28:07:52	4M	150/4 ^m SAS7
		25	Th-Ar		↑		
		26	Th-Ar		↓		
		27	W31640	12:57:53	31:03:16	2M	
		28	Th-Ar		↑		
		29	Th-Ar		↓		
		30	W52626	13:05:30	27:49	2M	
		31	Th-Ar		↑		
		32					

↑
SAS7
↓

TO CAM 2/25

Spectrograph ECHELLE Intensified Reticon
 Log Sheet
 Grating _____ Observer MAZEH
 Telescope Wyett Date 23/24 Feb 86 Disk 299

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1			↓		
		2	W 52/99	13:04:47	27:53	2M	SAS7
		3			↑		
		4	W 50/65	13:04:46	28:18	5M	SAS7
		5			↑		
		6	TH-AR		↓		Not good
		7	TH-AR		↓		
		8	H 164515	16:3:32	110:49	6M	Triple
		9	TH-AR		↑		
		10	TH-AR		↓		
		11	S 065595	16:48:50	32:38:11	2M	
		12	TH-AR		N		
		13	G 6/638	16:43:11	33:35:54	6M	sky 2/6/5
		14	TH-AR		↑		
		15	TH-AR		↓		
		16	G 6/641	16:52:46	-08:15:17		
		17	TH-AR		↑		
		18	TH-AR		↓		
		19	SKY			5MIN	
		20	TH-AR		↑		
		21	11V CAN			120	
		22	11V CAN			120	
2/24-5		23	TH-AR		↓	90S	
		24	SKY EVE			5M	
		25	TH-AR		↑	90S	
2/25-6		26	TH-AR		↓	90S	
		27	SKY EVE			8M	
		28	TH-AR		↑	90S	
		29	TH-AR		↑	120S	6563A
		30	W ORI	05 36 33	04 06	12M	MANY CLOS, INTERRUPTIONS
		31	TH-AR		↑	120S	
		32					

Spectrograph ECHELLE
 3002
 Grating SM
 Telescope _____

Intensified Reticon
 Log Sheet
 Date 2/25-6/86

TO CAM 2/25
 RAW/RET 10
 Observer new / MAZEH
 Disk ORO 900

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		TH-AR		12	↓	120 ^s	6563
	2	ONT	05 52.5	07 27		11 1/2 ^{min}	
	3	TH-AR			↑	120 ^s	
	4	TH-AR			↓	90 ^s	
	5	S036250	00:15:41	14:16	↑	1 MIN	30/7.6
	6	TH-AR			↓	90 ^s	
	7	S036243	00:15:40	14:44		8 MIN	
	8	S036293	00:15:40	14:44		10 MIN	
	9	TH-AR			↑	90 ^s	
	10	S036250	00:15:41	14:16	↑	4 MIN	File 8 is a contin. of file 7. The comment of 7.67 apply for File 8
	11	TH-AR			↓		
	12	S036242	00:15:41	14:18		5 MIN	
	13	TH-AR			↓		
	14	S036250	00:15:42	14:16		4 MIN	
	15	TH-AR			↑		
Th-AR	16	S021738	00:46:19	56:48	↓		
	17	S021738	00:46:19	56:48		3 MIN	60/7.1
	18	TH-AR			↓		
	19	TH-AR			X		
	20	TH-AR					
	21	S132170	S:26:54	-03:29		2 MIN	150/6.1
	22	TH-AR			↓	90 ^s	
	23	S132211	S:28:57	-03:42		5 MIN	45/8.4
	24	TH-AR			↓	90 ^s	
	25	S132259	S:31:08	-03:29.48		3 MIN	80/1.0
	26	TH-AR			↑	90 ^s	
	27	TH-AR			↓		
	28	G5 301	S:10:50	-13:45:48		12 MIN	22/4 star: 25c/s sky: 2-3 cnt/s
	29	TH-AR			↑	90 ^s	
	30						
	31						
	32						

Intensified Reticon TO CAM

Spectrograph ECHELLE Log Sheet RAW RET 10

Grating _____ Observer MAZEIT

Telescope Wyatt Date 25/26 Feb Disk 901 26/2

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1	Th-AR		↓	90 ^s	
		2	616 319	8:40:02	+09:44	15 MIN	30/9.7
		3	Th-AR		↑		
		4	Th-AR		↓		
		5	616 334	9:04:19	-8:36	10 MIN	22/9.5
		6	Th-AR		↑		
		7	Th-AR		↓		
		8	616 412A	11:02:43	45:47	8 MIN	40/8.8 st: 60 d/s sky-3 d/s
		9	Th-AR		↑	90 ^s	
		10	S043 627	11:06:51	43:29	2 MIN	130/6.0
		11	Th-AR		↑		
		12	Th-AR		↓		
		13	616 508	13:17:36	48:02	7 MIN	40/9.0
		14	Th-AR		↑		
		15	Th-AR		↓		
		16	W1145D	13:08:51	31:05	15 MIN	60/9.5(?) sky 2.5 d/s
		17	Th-AR		↑		
		18	Th-AR		↓		
		19	W13777	13:11:18	30:02	3 MIN	30/8.5
		20	Th-AR		↑		
		21	W13781	13:11:23	30:03	14 MIN	23/10.7 sky 15%
		22	Th-AR		↑		
		23	W13784	13:11:20	30:04	2 MIN	60/7.2
		24	Th-AR		↑		
		25	Th-AR		↓		
		26	W40903	13:09:06	29:08	13 MIN	100/8.8
		27	Th-AR		↑		
		28	Th-AR		↓		
		29	616 338A	09:10:52	52:53	8 MIN	60/7.6
		30	Th-AR		↑		
		31					
		32					

Intensified Reticon

Spectrograph ECHELLE Log Sheet TO CAM

Grating _____ Observer MAZEH

Telescope Wye Date 25/26 Feb Disk 902 26/2

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1			↓	9.25	
		2	61s 3308	9:10:54	52:53	↓	6 MIN 30/77
		3			↑		
		4			↓		
		5	S 045 225	10:16:51	48:34	↓	4 MIN 120/60
		6			↓		
		7	61s 330	10:08:13	49:42	↓	3 MIN 40/66
		8			↑		
		9			↓		
		10	H144784	16:00:57	54:42	↓	3 MIN 80/41
		11			↑		
		12			↓		
		13	H144515	16:3:32	12:48:11	↓	15 MIN 80/63 50 c/s
		14			↑		
		15			↓		
		16	S 065 595	16:48:50	33:38:	↓	2 MIN 70/63
		17			↑		
		18	61s 638	16:43:14	33:36	↓	10 MIN 45/8.1 st: 30-60 c/s
		19			↑		slg: 2 c/s
		20			↓		
		21	S 043 312	14:20:02	29:35	↓	2 MIN 60/66
		22			↑		
		23	61s 546	14:19:45	29:51	↓	8 MIN 35/85 st: 70 c/s
		24			↑		30 c/s
		25			↓		
		26	S 59-5	6:59:5 23:30:			/94
		27			↑		
		28			↓		
		29	H1450	13:08:51	31:05	↓	15 MIN 45/95(?)
		30			↑		
		31					
		32					

2/26

Spectrograph ECHELLE Intensified Reticon TO CAM
 Grating _____ Log Sheet RAW RET 10
MAZE IF/RPS
 Telescope Wyatt Date 25/26 Feb 86 Observer _____
 Disk 903

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1	Th-Ar		↓	90s	IGNORE
		2	Th-Ar		↓		
		3	G 644A	16:52:46	-08:15	12 MIN	30 / 4.1
		4	Th-AR		↑		
		5	Th-AR		↓		
		6	G 210-46	20:58:01	40:03:42	5 MIN	120 / 6.5
		7	Th-AR		↑		
		8	Th-AR		↓		
		9	SKY			5 MIN	
		10	Th-AR		↑		
		11	Incand				
		12	Incand				
		13	Incand				
26-27 Feb 1986		14	Th-Ar		↓	90s	
		15	SKY-EVEN	stow		5m	
		16	Th-Ar		↑	90s	
		17	Th-Ar		↓	90s	← Th-Ar
		18	H26162	04:06:15	19:28:43	3 1/2	IAU Standard
		19	Th-Ar		↑	90s	
		20	Th-Ar		↓	90s	
		21	(16)	04:39:13	19:14:02	9m	11.6 - Probably not an asteroid - came up!
		22	Th-Ar		↑	90s	
		23	Th-Ar		↓	90s	
		24	(2)	05:46:55	-16:37:19	4m	8.6 - Came up but doesn't look like an asteroid.
		25	Th-Ar		↑	90s	
		26	Th-Ar		↓	90s	
		27	G88-32	07:27:39	+24:27:39	20m	10.9/? Halos.
		28	Th-Ar		↓	90s	
		29	G88-32			20m	New halo candidate - added to catalog as #1071
		30	Th-Ar		↑	90s	
		31	/				
		32	/				

2/26

Spectrograph ECHELLE

Intensified Reticon

TO CAM

Grating 300 line

Log Sheet

RAW RET 10

Telescope Wyeth

Date 26-27/Feb 1986

Observer RPS

Disk 904 ORO

Change.... File ID 1950.0 RA Dec L/R Exposure Comments

Change....	File	ID	1950.0 RA	Dec	L/R	Exposure	Comments
		1			↓	90s	
		2	G87-47	07:32:15	36:03:54		13m 10.3/30
		3	Th-Ar			↑	90s
		4	Th-Ar			↓	90s
		5	G89-14	07:19:48	48:55:12		16m 10.4/40
		6	Th-Ar			↑	90s
		7	Th-Ar			↓	90s
		8	G88-5	07:03:12	18:42:54		6m 10.2/20
		9	Th-Ar			↑	90s
		10	Th-Ar			↓	90s
		11	G90-25	07:50:22	+30:45:40		3m 8.3/56
		12	Th-Ar			↑	90s
		13	Th-Ar			↓	90s
		14	H47φφφ	08:38:31	-16:09:35		16m 9.6/60
		15	Th-Ar			↑	90s
		16	Th-Ar			↓	90s
		17	G114-48	09:11:12	-03:41:18		9m 10.7/15
		18	Th-Ar			↑	90s
		19	Th-Ar			↓	90s
		20	G114-26	08:56:39	-03:49:36		10m 9.7/30
		21	Th-Ar			↑	90s
		22	Th-Ar			↓	90s
		23	G43-3	09:46:12	13:59:18		4m 8.3/56
		24	Th-Ar			↑	90s
		25	Th-Ar			↓	90s
		26	G41-34	09:20:06	11:29:06		4m 9.7/15
		27	Th-Ar			↑	90s
		28	Th-Ar			↓	90s
		29	G53-3φ	10:09:56	-00:23:12		6m 10.3/15
		30	Th-Ar			↑	90s
		31	/				
		32	/				

Spectrograph ECHELLE Intensified Reticon
 Grating 300 line Log Sheet
 Telescope Wyeth Date 26-27 Feb. 1986

TO CAM 3/28
RAW/RET 10
 Observer RPS
 Disk ORO 907

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1			↑	90s	
		2			↓	90s	
		3	G169-13	16:27:49	34:48:46		7m 10.2/15
		4			↑	90s	
		5			↓	90s	
		6	G180-66	16:37:47	34:22:36		15m 8.0/26 thin clouds moving in.
		7			↑	90s	- had to cut exposure short
		8			↓	90s	clouding up rapidly
		9	H136202	15:16:45	01:57:12		2m IAU standard
		10			↑	90s	
		11			↓	90s	
		12	H140283	15:40:23	-10:46:18		6m 7.2/300 Halo - watch for sky!
		13			↑	90s	
		14			↓	90s	
		15	SKY-DWN	stow		5m	
		16			↑	90s	
		17	INCLIN			120"	
		18	INCLIN			120"	
27-27		19	INCLIN			40"	
		20	TH-AR		↓	90s	
		21	SKY SW			8m	
		22	TH-AR		↑	90s	
		23	TH-AR		↓		
		24	S036250	00:15:41	44:16		3 MIN 60/7.6
		25	TH-AR		N		
		26	S036248	00:15:40	43:44		5 MIN 25/8.1
		27	TH-AR		↑		
		28	S036242	00:15:14	44:18		2 MIN 35/7.5
		29	TH-AR		↑		
		30					
		31					
		32					

Intensified Reticon

TO CAM 3/28

Spectrograph ECHELLE

Log Sheet

RAW RET 10
MIZETT

Grating _____

Observer _____

Telescope Wye

Date 2/28 Feb 86

Disk 908

1950.0

L/R

Change.... File ID RA Dec \uparrow/\downarrow Exposure Comments

Change....	File	ID	RA	Dec	L/R	Exposure	Comments
		1	Th-AR				
		2	S021738	00:46:19	56:48		40 / 1.1
		3	Th-AR				
		4	Gls 348	00:46:08	57:35		
		5	Th-AR				
		6	Th-AR				
		7	S07626	03:45:07	24:50	1" M	60 / 6.6
		8	Th-AR				
		9	Gls 154	03:43:19	26:02	12" M	36 / 9.6
		10	Th-AR				st: 30 c/s sky: 1.5
		11	Th-AR				
		12	S07658	04:20:45	22:51	2" M	60 / 1.2
		13	Th-AR				
		14	Gls 169	04:26:02	21:49	4" M	40 / 8.3
		15	Th-AR				
		16	Th-AR				
		17	Gls 176	04:40:00	18:52		19.9
		18	Th-AR				st: 20 c/s
		19	Th-AR				
		20	G95-57A	03:42:36	41:17	4" M	80 / 8.2
		21	Th-AR				
		22	G95-57B	03:43:37	41:17	5" M	40 / 8.8
		23	Th-AR				
		24	Th-AR				
		25	S 13342	6:31:51	-03:02	2" M	200 / 7.1
		26	Th-AR				
		27	Gls 234	6:26:52	-02:46	15" M	15 / 11.1
		28	Th-AR				star: 15 c/s, sky: 1.5
		29	Th-AR				
		30	Gls 301	08:10:50	-13:45	8" M	33 / 9.4
		31	Th-AR				
		32					

Intensified Reticon

TO CAM 3/28

Spectrograph ECHELLE

Log Sheet

RAW/RET 10

Grating _____

Observer _____

Telescope Wyett

Date 27/28 Feb 86

Disk ORO 909

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1			↓	90s	
	G6 319		09:40:02	09:44		7 ^M	28/12.7 M STARS
		3			↓	90s	
	G6 319c		09:40:02	09:44		15 ^M	10/11.9 M STARS
		5			↑	90s	
		6			↓	90s	
	W11450		13:08:51	31:05:32		13 ^M	90/9.4(2) st: 90 c/s SAS7
		8			↓	90s	
	W11449		13:08:50	31:05:34		10 ^M	20/10(?) 25 c/s SAS7
		10			↑	90s	
		11			↓	90s	
	W11109		13:13:51	31:09:32		8 ^M	120/8.6 SAS7
		13			↑	90s	
		14			↓	90s	
	W13211					12 ^M	36/10.8 SAS7
		16			↓	90s	
	W13935		13:08:53	30:04			110.4 SAS7
		18			↓	90s	
	W14261		13:12:48	30:01		3 ^M	25/9.3 SAS7
		20			↑	90s	
		21			↓	90s	
	G6 334		09:04:19	-08:36			19.5 ← M STAR high airmass
		23			↑	90s	
		24			↓	90s	
	G6 338A		09:10:52	52:53		3 ^M	M STARS
		26			↓	90s	
	G6 338B		09:10:54	52:53		3 ^M	80/7.7 M STARS
		28			↑	90s	
		29					
		30					
		31					
		32					

Intensified Reticon

TO CAM 3/28

Spectrograph ECHELLE

Log Sheet

RAW RET 10

Grating _____

Observer MAZE H.

Telescope lyell

Date 27/28 Feb 86

Disk ORO 910

Change....	File	ID	1950.0 RA	Dec	L/R +/-	Exposure	Comments
		1			↓		
	Gk 380		10:08:13	49:42		2 ^M	100/6.6 M STARS
		3			↓		
	S 043 285					1 ^M	100/6.1 M STARS
	TL AR		10:16:21	48:38	↑		
		6			↓		
	S 043 306		10:32:32	45:54		2 ^M	80/7.5 M STARS
	TL AR				↑		
	Gk 397		10:28:25	45:47		7 ^M	45/8.9 M STARS
		10			↑		
	TL AR				↓		
	G 147-58		11:27:43	36:07		6 ^M	20/9.9 HALD
		13			↑		
	TL AR				↓		
	S 043 624		11:06:51	43:28:44		2 ^M	200/6.0 M STARS
		16			↑		
	TL AR				↓		
	Gk 42A		11:02:43	43:47		6 ^M	30/8.8 M STARS
		18			↑		
	TL AR				↓		
	G 59-5		12:10:56	23:32		4 ^M	20/9.4 HALD
		21			↑		
	TL AR				↓		
	S 132 95		12:17:09	03:02:57		6 ^M	30/9.0 HALD
		24			↑		
	TL AR				↓		
	S 101 758		15:47:13	12:42:35		2 ^M	140/6.7 M STARS
		27			↑		
	TL AR				↓		
	Gk 600		15:49:45	11:01		6 ^M	25/9.4 M STARS
		29			↑		
	TL AR						
		30					
		31					
		32					

Spectrograph ECHELLE Intensified Reticon
 Grating _____ Log Sheet
 Telescope Wyett Date 27/26 Feb 86

TO CAM 3/1
 RAW/RET 10
 Observer MAZEH

Disk 911

Change.... File ID 1950.0 RA Dec L/R Exposure Comments

Change....	File	ID	1950.0	RA	Dec	L/R	Exposure	Comments
		1				L		
		2		16:48:11	33:35:34		3 ^m	40/8.1 M STARS
		3				N		
		4		16:48:50	32:38		1 ^m	100/6.3 M STARS
		5				↑		
		6				↓		
		7		16:52:46	-08:15		15 ^m	19.1 M STARS
		8					16 ^m	File 7 is included in File 8.
		9				↑		
		10				↓		Ignore File 7
		11		20:31:05	41:43		3 ^m	1047.1 HALO
		12				↑		
		13				↓		
		14		20:58:01	40:03		5 ^m	300/6.5
		15				↑		
		16				↓		
		17					4 ^m	600
		18				↑		
		19					120 ^m	
2/28-3/1		20					5 ^m	
		21				↓	90 ^s	5187A
		22					5 ^m	
		23				↑	90 ^s	
		24				↓	120 ^s	6563A
		25		23 35 06	+46 11		4 ^m	
		26				↑	120 ^s	
		27				↓	120 ^s	
		28		05 36 33	+04 06		4 ^m	
		29				↑	120 ^s	
		30				↓	120 ^s	
		31		05 52 28	+07 24		3 1/2 ^m	NO = 2 FILTER
		32				↑	120 ^s	

Spectrograph ECHELLE Intensified Reticon
 Grating 300L Log Sheet
 Telescope SH Date 2/22-3/1/86

TO CAM 3/1
RAW RET 10

Observer nan
 Disk ORO 912

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1	TH-AR		↓	90 ^s	5187A ^o 80N
		2	Z AMO	23 31 15	48 33	5 ^m	
		3	TH-AR		↑	90 ^s	
		4	TH-AR		↓	90 ^s	
		5	AK PER	01 33 06	54 00	20 ^m	
		6	TH-AR		↑	90 ^s	
		7	TH-AR		↓	90 ^s	
		8	G37-26	03 05 28	26 09	3 ^m	
		9	TH-AR		↑	90 ^s	
		10	TH-AR		↓	90 ^s	
		11	G95-57A	03 43 36	41 17	2 ^m	
		12	TH-AR		↑	90 ^s	
		13	G95-57B	03 43 37	41 17	4 ^m	
		14	TH-AR		↑	90 ^s	
		15	TH-AR		↓	90 ^s	
		16	G29-14	07 19 48	08 55	14 ^m	
		17	TH-AR		↑	90 ^s	
		18	TH-AR		↓	90 ^s	
		19	S95160	06 00 15	19 22	5 ^m	
		20	TH-AR		↑	90 ^s	
		21	TH-AR		↓	90 ^s	
		22	HS1754	6 56 06	-00 24	5 ^m	
		23	TH-AR		↑	90 ^s	
		24	TH-AR		↓	90 ^s	
		25	G22-32	07 27 39	24 12	15 ^m	
		26	TH-AR		↑	90 ^s	
		27	TH-AR		↓	90 ^s	
		28	G27-47	07 32 15	36 03	11 ^m	
		29	TH-AR		↑	90 ^s	
		30	TH-AR		↓	90 ^s	
		31	G114-26	08 56 39	-03 50	7 ^m	
		32	TH-AR		↑	90 ^s	

Intensified Reticon

TO CAM 3/1

Spectrograph ECHELLE

Log Sheet

RAW RET 10

Grating 300l

Observer RL

Telescope SH

Date 2/28-3/1/76

Disk ORO 913

Change.... File ID 1950.0 RA Dec L/R Exposure Comments

Change....	File	ID	1950.0 RA	Dec	L/R	Exposure	Comments
	TH-AR				↓	90 ^s	
	G43-3	09 46 12	+13 59			3 ^m	
	TH-AR				↑	90 ^s	
	TH-AR				↓	90 ^s	
	G191-55	05 53 04	+58 40			12 ^m	
	TH-AR				↑	90 ^s	
	TH-AR				↓	90 ^s	
	S58912	06 12 36	+37 45			2 ^m	
	TH-AR				↑	90 ^s	
	TH-AR				↓	90 ^s	
	G103-58	06 43 09	+35 56			5 ^m	
	TH-AR				↑	90 ^s	
	TH-AR				↓	90 ^s	
	G146-71	10 51 15	+39 47			9 ^m	
	TH-AR				↑	90 ^s	
	TH-AR				↓	90 ^s	
	G147-58	11 27 43	+36 07			4 1/2 ^m	
	TH-AR				↑	90 ^s	
	TH-AR				↓	90 ^s	
	G147-36	11 14 34	+29 51			2 1/2 ^m	
	TH-AR				↑	90 ^s	
	TH-AR				↓	90 ^s	
	G59-5	12 10 56	12 33			2 1/2 ^m	
	TH-AR				↑	90 ^s	
	TH-AR				↓	90 ^s	
	G59-32	12 37 37	21 05			6 ^m	
	TH-AR				↑	90 ^s	
	TH-AR				↓	90 ^s	
	W11450	13 08 51.1	31 06			13 ^m	
	TH-AR				↑	90 ^s	
	W11449	13 08 50.6	31 06			10 ^m	
	TH-AR				↑	90 ^s	

Intensified Reticon

TO CAM 3/11

Spectrograph ECHELLE

Log Sheet

RAW RET 10

Grating _____

Observer Jan

Telescope _____

Date 2-27/31

Disk ORO 919

Change....	File	ID	RA	1950.0 Dec	L/R ↑/↓	Exposure	Comments
		1	TH-AR		↓	70 ^s	5177A 8/6
		2	(1)	11 05 56	29 06	3 ^m	ASTEROID STANDARD
		3	TH-AR		↑	70 ^s	
		4	TH-AR		↓	70 ^s	
		5	H114762	13 09 55	17 47	3 ^m	1A II STANDARD
		6	TH-AR		↑	70 ^s	
		7	TH-AR		↓	120 ^s	6563 8/6
		8	VCEW 6	13 17 17	45 47	5 ^m	
		9	TH-AR		↑	120 ^s	
		10	TH-AR		↓	120 ^s	
		11	FK COM	13 32 08	24 25	10 ^m	
		12	TH-AR		↑	120 ^s	
		13	TH-AR		↓	70 ^s	5177
		14	G15-22	13 54 16	09 10	18 ^m	
		15	TH-AR		↑	70 ^s	
		16	TH-AR		↓	90 ^s	
		17	W11310	13 10 00	31 06	20 ^m	
		18	TH-AR		↑	70 ^s	
		19	W11310	"	"	20 ^m	
		20	TH-AR		↑	70 ^s	
		21	TH-AR		↓	90 ^s	
		22	W61473	13 01 22	28 53	15 ^m	
		23	TH-AR		↑	70 ^s	
		24	W61474	"	"	10 ^m	
		25	TH-AR		↑	70 ^s	
		26	TH-AR		↓	70 ^s	
		27	G227-37	18 57 26	62 31	3 ^m	
		28	TH-AR		↑	70 ^s	
		29	TH-AR		↓	90 ^s	
		30	G201-29	19 30 52	48 29	15 ^m	
		31	TH-AR		↑	90 ^s	
		32					

