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Observing Book 24.

Mostly Southern plates.

M. E. O'Reilly

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This book examined for underlinings, and corrections entered in Bks 27 and 34 D. August 5, 1917.

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Although the measures in this book and in all my books were recorded in order of brightness, the stars were measured in as irregular order as possible, in order to obtain independent results.

Sept. 11, 1918.

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Scale m. 1.45 — B 46901 — B Series 169. — C10

	sc.1	sc.2			P.C. sc.2
1					8.1 — 1.26
2					8.6 — 1.19
3					8.6 — 1.26
4					8.8 — 0.96
6	B. ~~7.2~~ w.s.				9.8 — 1.30
7	3.8 3.6	B.		449	9.5 — 1.21
8	5.1 4.9	5.1	5 10 0 0	4.00	fi ou sup?
9	5.3 5.1	5.1	5.50 2 2	3.90	m.s.
10	5.8 5.6	5.1	5 7 5 0 1	3.94	
11	6.3 6.1	6.1	6 2 0 1 1	3.84	
12	6.7 6.5	6.8	6 7 5 1 0	3.74	
13	7.0 6.8	7.1	7 0 5 0	1 3.68	
15		7.5		3.67	
16		7.7		3.82	
17		8.30 1 1 8.4 82		3.60	
18		nearly sup.		,	
19		9.75 L 0 9.1 98		2.99	
20		10.00 0 0 10.0 10.0		2.87	
21		4 4.		,	
22		m.s.		,	
24					
25					
6		8.9		361	

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B Series 169.

	B 46901 g sc.1	sc.2	C10 - h sc.1	sc.2	Diff. Inv.
			5.9		
1	t.f.		5.4		0.94
2	t.f.		6.3		0.91
3	t.f.				"
4	t.f.		t.f.		"
6 35	t.f.		t.f.		"
7 8	t.f.		t.f.		"
8	t.f.		t.f.		"
9	9.3	925.10	9.21		0.15
10	t.f.		9.4		0.29
11	t.		t 10.1?		-0.06
12	n.s		n.s.		"
13					
15					
16					
17					
18					
19					
20					
21					
22					
24					
25					

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Scale m. B Series 169. Alt Cour +07

B 46902 45 KS. 18h

	sc.1	sc.2		Cw.	Magn	Diffr. Im. 9h sc.1	sc.2			P.c. sc.2		
1				.	.	tf.	tf.	.	.	7.3	.	.
2	B.			.	.	6.1?	t.f.	0.86	6.96?	8.2	−1.21	6.99
3	3.8			4.27	8.27	7.5	7.4	0.70	8.15	9.1	−1.28	7.92
4	4.2	4.3	4.35 0 1	4.20	8.55	7.8	tf.	0.66	8.46	9.4	−1.16	8.24
5	4.1	5.1	5.00 1 1	4.08	9.08	8.5	8.4	0.59	9.04	m.s.?	.	.
6	5.1	5.4	5.35 1 0	4.00	9.35	8.4	8.5	0.59	9.04			
7	5.6	5.8	5.80 0 0	3.92	9.72	8.9	9.1	0.50	9.50			
8	5.9	5.9	6.00 1 1	3.88	9.88	9.1	9.6	0.38	10.03			
9	6.3	6.2	6.35 1 2	3.82	10.17	t	t.	.	.			
10		7.3		3.67	10.97							
11		7.3		3.67	10.97							
12		7.5		3.64	11.14							
13		7.4		3.66	11.06							
14		8.0		3.57	11.57							
15		8.2		3.54	11.74							
16		8.4	8.5	3.51	11.96							
17		8.6	8.6	3.48	12.08							
18		8.9	8.9	3.43	12.33							
19		9.2	9.2	3.36	12.56							
20		9.4	9.5	3.31	12.76							
21		9.9	t.	3.21	13.11							
22		t.		.	.							
1b		7.3		3.67	10.97	m.s.	m.s.					
1a	6.4			3.77	10.37	9.6	9.5			m.s.		
2a	4.3			4.23	8.73	8.5	tf.			9.3		

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Salem. B Series 169. Alt Corr +06

B 4690.4 1 KS 18 56 0.0

Diff. Im. Q.C.

	pc.1	pc.2	pc.2			pc.2			
						pc.2	pc.2		
1	4.0 3.8	B	4.27	8.27	7.30 00 7.3 8.80 7.3 00	0.71	8.01	8.9 – 1.20	7.70
2	5.55 5.3 6.71	5.6 5.55 L0	3.98	9.53	8.8 8.8	0.52	9.32	m.s. ,	,
3	5.9	7.0 7.05 1 0	3.71	10.76	f f	,	,		
4		7.2	3.69	10.89					
5		7.9	3.59	11.49					
6		8.1	3.55	11.65					
7		8.45 1 0 8.5 8.4	3.50	11.95					
8		8.50 0 0 8.5 8.5	3.50	12.00					
9		9.05-21 9.2 8.9	3.39	12.44					
10		9.90 0 0 9.9 9.9	3.21	13.11					
11		f. f.	,	,					
12		m.s.	.	.					
13									
14									
15									

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B Series 169

Alt Corr +06

B 4690 5 Carte 19 - 2.5

	sc 1	sc 2	sc 2	Cw.	Magn	Diff Im. sc 2				P.C. sc 2
						g	h			
1	5.1 4.9	5.1	5.10	00	4.05	9.15	t.f.	84	0.72	9.12	f
2	5.7 5.5	5.6	5.65	1 0	3.94	9.59	t.f.	86	0.70	9.30	
3	6.4 6.2	6.3	6.35	0 1	3.82	10.17	t.f.	t.f.	,	,	
4	6.5 6.3	6.3	6.40	1 1	3.81	10.21	9.40 00 9.t	9.t	0.43	9.83	
5	6.7 6.5	6.7	6.70	00	3.76	10.46	t.f.	9.9	0.33	10.23	
6		7.0			3.71	10.71	f	f	.	.	
7		7.2			3.69	10.89					
8		7.3			3.68	10.98					
9		7.5			3.64	11.14					
10		8.2			3.54	11.74					
10a		8.3			3.53	11.83					
11		8.2			3.54	11.74					
12		8.1			3.48	12.18					
13		9.10 00 9.1			3.39	12.49					
14		9.05 1 2 8.9			3.40	12.45					
15		9.35 0 1 9.t			3.34	12.69					
16		9.70 00 9.7			3.26	12.96					
17		10.00 00 10.0			3.19	13.19					

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Scale m.

B Series 169.

B 46 9 0 6 C 10

	pc.1	pc.2	Diff.	Diff. Im. pc.1	pc.1		P.C. pc.2
1	B.		.	tf.	6.0 5.8 6.4 6.9	0.84	8.0 – 1.16
2	B		.	tf.	6.1	0.51	8.1 – 1.29
3	3.4 3.21		3.94	6.5 6.3	6.4 6.2 6.45 1.0	0.89	8.5 – 1.16
4	B.		.	tf.	tf.	.	8.9 – 1.06
6	B.		.	tf.	tf.	.	9.1 – 1.20
7	4.1 3.9	B	4.19	1.1	tf.	0.59	9.4 – 1.11
8	5.9 4.8	5.0	5.00 0.0 4.10	8.6	8.5	8.55 0.1	0.55 10.0 – 9.90
9	5.3 5.1	5.3	5.30 0.0 4.10	9.2	9.21	9.20 0.0	0.20
10	5.8 5.6	5.1	5.75 0.1 3.94	tf.	9.3		0.39
11	6.1 5.9	6.3	6.20 1.1 3.84	10.0	10.0	10.00 0.0	0.04
12	7.0 6.8	6.8	6.90 1.1 3.59				
13		7.21	3.53				
15		7.6	3.57				
16		8.1	3.42				
17		8.45 1.0 8.5	8.4 3.45				
18		nearly sup.					
19		9.30 0.0 9.3	9.3 3.44				
20		9.60 0.0 9.6	9.6 3.27				
21		10.00 0.0 10.0	10.0 3.48				
22		n.s.	.				
24							
2		9.7					

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Salem.

B Series 160.

Alt Corr 0.0

10:40 B 46808 Carte 149K } 9 02-310

Sequence for 149K.

Diff. Im.

	Sc.1	Sc.2				Sc.2	Sc.2			Pc. Sc.2
1	4.8 4.6	4.9	4.85	0 1	3.26	8.11	8.35 1 0 8.3 8.4	0.09	8.44	9.1 −1.41 8.29
2	5.9 5.1	5.8	5.85	1 0	3.07	8.92	9.35 0 1 9.4 9.3	0.00	9.35	n.s. , ,
3	6.3 6.1	6.3	6.30	0 0	3.02	9.32	9.65 0 1 9.6 9.4	−0.05	9.60	
4		14			2.93	10.33	10? 8?	−0.12	9.88?	
5		8 1			2.95	11.05	n.s. ns.	,	,	
6		1.8			2.92	10.72				
7		8.0			2.94	10.94				
8		8.5			3.01	11.51				
9		8.2			2.99	11.29				
10		8.55 0 1 8.6 8.5			3.02	11.57				
11		8.99 1 1 8.8 9.0			3.12	12.02				
12		9.55 1 0 9.5 9.6			3.40	12.95				
13		9.65 1 0 9.7 9.6			3.44	13.09				
14		10.0 ??			3.60	13.60e				
15		8. 8.			,	,				

See also next page.

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Scale m.

B series 160.

Alt Corr 00

B 46808 Carte 9 00 - 31.5

	pc.1	pc.2	pc.2			Diff. lm. pc.2	pc.2			G.C. pc.2		
1	4.1 3.9	4.2	4.15 1.0	3.340	7.55	8.10 00 8.1	8.1	0.11	8.21	9.3	- 1.42	7.88
2	5.0 4.8	5.1	5.05 0.1	3.321	8.26	8.40 00 8.4	8.4	0.09	8.49	9.9	- 1.40	8.50
3	5.5 5.3	5.5	5.50 0.0	3.313	8.63	9.20 00 9.2	9.2	0.02	9.22	m.s.	,	,
4	6.2 6.0	6.3	6.25 0.1	3.302	9.27	9.65 1.0 9.9	9.6	-0.05	9.60			
5		11.4		2.93	10.33	10.00 00 10.0	10.0	-0.11	9.89			
6		11.8		2.92	10.72	m.s.	m.s.	,	,			
7		8.2		2.96	11.16							
8		8.5		3.01	11.51							
9		8.5		3.01	11.51							
10		8.1		3.05	11.75							
11		9.1		3.20	12.30							
12		9.2	9.15 0.1 9.1	3.21	12.36							
13		9.4	9.35 0.1 9.3	3.31	12.66							
14		10.0	10.00 0.0 10.0	3.60	13.60 e							
15		1	1	,	,							

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Scale m.

B series 160.

Alt Corr +01

B 46810 174K 10 38

	sc.1	sc.2	pc.2				sc.2	sc.2		sc.2
	4.3			4			7.45	01		
1	4.1	4.1	420	11	3.80	7.60	7.4	7.5		9.9 – 1.40 8.50
	6.4			0			9.25	01		
2	6.21	6.4	640	00	3.81	9.41	9.2	9.3		
3		7.1			2.92					
3a		7.9			~~3.61~~	10.62	m.s.	m.s.		
4		8.4			2.92	10.82				
5		8.5			3.00	11.40				
			880	11						
6		8.9	8.1		3.01	11.51				
			915	10						
7		9.1	9.2		3.09	11.89				
			920	00						
8		9.2	9.21		3.21	12.36				
			930	00						
9		9.3	9.3		3.23	12.43				
			970	11						
10		9.6	9.8		3.29	12.59				
					3.46	13.16				
11		1	1		,	,				
12		1			,	,				
13		m.s.				,				
14										
15										

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Plot 3 5/8

Scale m. B series 160.

B 46811 C6. 11 + 15°

	sc.1	sc.2	Cm.	Diff. Im sc.1	sc.2	th sc.1	sc.2		P.C. sc.2
1	a.		.	6.4 (6.6)		th.		0.16	8.4 — 1.64
2	a		.	th.		th.		.	8.3 — 1.42
3	a		.		th.	7.1		-0.19	9.2 — 1.69
4	4.1 3.9		346	7.6		th.		-0.04	8.1 — 1.14
5	th.		.	7.1		th.		0.07	9.2 — 1.43
6	5.0 4.8		321	8.2		th.		0.01	9.6 — 1.39
9	5.4 5.2	5.5	545 01 3.14	8.5	8.45	10	8.4	0.14	10.0 — 1.41
10	5.7 5.5	5.6	565 10 3.25	8.8	8.80	00	8.8	0.10	m.s. .
10a	6.0 5.8	6.1	605 01 3.01	th.			8.9	.	
12	6.3 6.1	6.1	620 11 3.14	9.3	9.25	10	9.2	0.09	
13	6.8 6.6	6.8	680 00 2.89	9.9	9.95	L0	10.0	-0.26	
14	14	7.1	. 2.96	10.1 m.s.	10.10	00	10.1 m.s.	-0.04	
14a		7.8							
16		7.5	302						
17		7.8	298						
19		8.1	283						
21		8.3	292						
22		8.6 (8.50 11)	8.4 304						
23		8.5 (8.55 10)	8.6 328						
24		9.2 (9.05 2L)	8.9 311						
25		9.3 (9.30 00)	9.3 303						
26		9.4 (9.45 01)	9.5 323						
27		9.5 (9.60 L1)	9.7 352						
28		9.7 (9.70 09)	9.7 358						
30		th.	th. .						
31		m.s.	m.s. .						

11 32

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Saturday September 30, 1916.

Scale m. B Series 144.

10:27 B 46644 C 9 17 +15°

P.C.

	sc 1	sc 2			Cu.	sc 7
	39					
3	3.7				3.14	8.6 56 − 1.48
3a	48					
4	4.6				3.02	9.1 − 1.28
5	4.7	4.8	485	1 0	3.21	9.4 − 1.34
6	5.1	5.5	540	1 1	3.07	9.8 − 1.33
6a	5.5	5.6	565	1 0	2.99	10.2? − 1.56
7	5.8	5.9	595	0 1	3.09	
8	6.2	6.3	635	1 0	3.18	
8a	6.3	6.5	650	0 0	3.18	
9	6.8	7.1	705	0 1	3.04	
12		7.4			3.17	
14		7.6			3.19	
15		8.1			3.03	
16		8.4 8.3			3.30	
17		8.4			3.43	
18		8.7			3.71	
20		9.2			3.56	
21		9.4			3.66	
22		9.7			3.70	
23		10.0 ff.			3.74	
24		10.1			3.83	
25		m.s.				
27						
28						
29						

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Saturday September 30, 1916.

Salem. B Series 144

B 46644 Cg. Diff. Inv.

	g sc.1	g sc.2	h sc.1	h sc.2	
3	6.4 (6.6)		th.		0.44
4	th.			7.8	0.02
5	th.			7.9	0.16
6		th.		th.	.
7		8.9	8.95 1 0	9.0	0.09
8		9.5		th.	0.03
9		10.1	10.05 1 0	10.0	0.04
12		n.s.		n.s.	.
14					
15					
16					
17					
18					
20					
3a	th.		th.		.
6a		th.		8.5	0.14
8a		9.3	9.40 1 1	9.5	0.28

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Cofried B 34:116

Scale m. B Series 144. Alt Corr +06 ~~+04~~?

B 46645 38 K8 17 05-27.7 Corr. for overlap +.04

	sc 1	sc 2	sc 2	Cm	Diffr Im. g	h			P.C. sc 2	
1	42 43 4.0 4.1	4.5	4.32 1 0 2 0 4.3	3.09	7.41	7.8 tf.	— 0.01	7.79	9.21 — 1.43	7.77
2	59 5.1	5.9	5.90 0 0	3.00	8.90	8.8 tf.	0.02	8.82	10.0 — 1.29	8.71
3	64 6.21	6.5	6.45 0 1	2.99	9.44	sup? 9.3	0.05	9.35	n.s. .	.
4	72 7.0	7.1	7.15 0 1	2.99	10.14	9.75 1 0 9.1 9.8	0.09	9.84		
5		7.4		3.00	10.40	tf. 10.0	0.10	10.10		
6		7.8		3.02	10.82	n.s. n.s.	.	.		
7		8.5		3.15	11.65					
8		8.5		3.15	11.65					
9		8.8		3.28	12.08					
10		8.9	8.90 0 0 8.9	3.30	12.20					
11		9.1	9.15 1 0 9.21	3.44	12.59					
12		9.21	9.20 0 0 9.21	3.47	12.67					
13		9.1	9.70 0 0 9.1	3.70	13.40					
14		9.8	9.75 0 1 9.7	3.71	13.46					
15		n.s	n.s.	,	.					
~~16~~										
17										

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Sept. m. B Series 144 Alt Corr -09

B 46646 196K 17 04-60.

	sc.1	sc.2	Cu.	Magn	g sc.2	h sc.2			P.C. sc.2
	70								
1	6.8	6.9 695 01	2.99	9.94	nearly sup.	98	0.09	9.89	m.s.
2		7.3	3.00	10.30	†	†			
3		8.0	3.04	11.04					
4		8.5	3.10	11.60					
5		8.4	3.08	11.48					
6		8.1	3.22	11.92					
7		8.1 875 01	3.22	11.92					
8		8.8 8.1 8.890 00	3.26	12.01					
9		7.9 8.9 9.40 00	3.30	12.20					
10		9.4 9.4 9.40 00	3.57	12.97					
11		9.4 9.4 9.90 00	3.57	12.97					
12		9.9 9.9 10.05 01	3.76	13.66					
13		10.0 10.1	3.82	13.87					
14		† †	.	.					
15		† †	.	.					
~~16~~									
~~17~~									

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Saturday September 30, 1916.

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Salem.

B Series 144.

Alt Cor +.06

B 46647 39 Ks 17 19 - 26.8

	sc 1	sc 2				g sc 2	h sc 2			B.C. sc 2
	6.3					9.35 1.0				
1	6.1	6.1	6.20	1	3.00	9.3	9.4	0.06	9.41	m.s.
	7.1					9.90 0.0				
2	6.9	7.1	7.10	00	2.99	9.9	9.9	0.10	10.00	
2a		8.5			3.15	m.s.	m.s.		11.65	
3		8.6			3.19			.	11.79	
4		8.8			3.27				12.07	
5		8.1			3.22				11.92	
6		8.8			3.27				12.07	
7		9.0			3.35				12.35	
8		9.6			3.65				13.25	
9		9.5			3.60				13.10	
10		9.7			3.70				13.40	
11		9.9			3.76				13.66	
12		10.0			3.81				13.81	
13		1			.				.	
14										
15										
~~16~~										
17										
~~18~~										
19										
20										
~~21~~										
~~22~~										

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Saturday September 30, 1916

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Salem B Series 144 Alt Corr +.06

B 46648 41 KS 17 14-21.5

	sc 1	sc 2			g sc 2	h sc 2			P.C. sc 2
1	6.6 6.4	6.6	6.60 0 0	2.99	9.59	9.55 0 1 9.6	9.5	0.09	9.64 n s
2	7.9 6.8	7.2	7.10 1 1	2.99	10.09	10.00 0 0 10.0	10.0	0.10	10.10
3		7.4		3.00	10.40	7	7	,	,
4		7.9		3.04	10.94	n.s.	n.s.	,	
5		8.1		3.05	11.15				
6		8.2		3.08	11.28				
7		8.15 1 0 8.1	8.2		3.06	11.21			
8		8.3		3.10	11.40				
9		8.2		3.08	11.28				
10		8.65 0 1 8.6	8.7		3.20	11.85			
11		8.80 0 0 8.8	8.8		3.27	12.07			
12		8.75 0 1 8.8	8.7		3.26	12.01			
13		9.30 0 0 9.3	9.3		3.51	12.81			
14		9.50 0 0 9.5	9.5		3.60	13.10			
15		10.00 0 0 10.0	10.0		3.81	13.81			

9 is slightly brighter than 8 on reference plate.

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Saturday September 30, 1916.

Salem.

B Series 144.

B 46649 C9

	sc.1	sc.2		Cu.	Pc. sc.2
	3.8				
3	3.6			3.24	8.8 — 1.76
	4.5				
4	4.3			3.32	9.3 — 1.48
	4.7				
5	4.5	B.		3.36	9.5 — 1.44
	5.4				
6	5.2	5.6	5.50 L 1	2.97	9.1 — 1.23
6a	5.6	5.6	5.70 L 1	2.94	10.2? ff — 1.56
7	5.9	6.1	6.10 o o	2.94	
	6.1				
8	6.5	6.6	6.65 1 0	2.88	
8a	6.5	6.8	6.75 L 0	2.93	
9		7.4		2.69	
12		7.6		2.97	
14		8.0		2.89	
15		8.4		2.73	
16		8.5		3.10	
		8.70 o o			
17		8.7	8.7	3.13	
		9.00 L 1			
18		8.9	9.1	3.41	
		9.40 o o			
20		9.4	9.4	3.36	
		9.85 L 0			
21		9.5	9.6	3.51	
		9.80 o o			
22		9.8	9.8	3.60	
		9.90 o o			
23		9.9	9.9	3.84	
24		ff.	f	.	
25			ms	.	
27					
28					
29					

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Saturday September 30, 1916

Salem

B Series 144

	B46649 g		Cg h		Diff. Am.
	sc.1	sc.2	sc.1	sc.2	
3	7.3		tr.		-0.26
4	tr.		7.8		0.02
5	8.3	8.3000	8.43		-0.24
6	8.4	8.4000	8.4		0.07
7	9.21	9.2000	9.21		-0.16
8	9.5	9.5000	9.5		0.03
9	10.0		?		0.09
12	n.s.		n.s.		
14					
15					
16					
17					
18					
3a	tr.		tr.		
6a	tr.		8.8		-0.16
8a	9.6	9.6000	9.6		0.08

11.25

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Monday October 9, 1916.

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Scale m. 10:30

B series 42.

Alt Con +10

B 4543 7 D 11.

	sc.1	sc.2			Q.C. sc.2		
1			.		8.6	−1.45	7.15
2			.		8.8	−1.47	7.33
3			.		9.1	−1.50	7.60
4	tf. 4.0		.		9.1	−1.50	7.60
5	3.8		4.01	8.01	9.4	−1.52	7.88
6	3.6 3.8		4.05	7.85	9.3	−1.52	7.78
7	3.9 3.9		4.03	7.93	9.4 9.25 01	−1.53	7.87
8	tf. 4.1		.	.	9.2 9.3	−1.52	7.73
9	3.9 4.3		3.99	8.09	9.6	−1.53	8.07
10	4.1 4.9		3.94	8.24	9.8	−1.54	8.26
11	4.7 4.7		3.82	8.72	f.	.	.
12	4.5 5.6	tf.	3.87	8.57	10.0	−1.55	8.45
13	5.4 6.0	5.5	5.55 01	3.69	9.24		
14	5.8 6.4	5.9	5.95 01	3.62	9.57		
15	6.2 6.7	6.4	6.40 00	3.56	9.96		
16	6.5 6.6	6.5	6.60 1	1 3.53	10.13		
17	6.4 6.7	6.7	6.65 01	3.52	10.17		
18	6.5 7.0	6.7	6.70 00	3.51	10.21		
19	6.8 7.0	6.8	6.90 1	1 3.50	10.40		
20	6.8	6.9	6.95 01	3.49	10.44		
21		7.4		3.44	10.84		
22		7.2		3.46	10.66		
23		7.5		3.43	10.93		
24		7.5		3.43	10.93		
25		7.9		3.40	11.30		
26		7.9		3.40	11.30		

Ft. Stars, cont

	sc.2		
27	8.3	39 3.76	11.69
28	8.4	38 3.75	11.78
29	8.7	37 3.52	12.07
30	9.0	36 3.59	12.36
31	9.4	37 3.54	12.77
32	9.3	3.36	12.66
33	9.3	3.36	12.66
34	9.7	3.36	13.06
35	f.	.	.
36	f.	.	.

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Monday October 9. 1916.

Scale m. B Series 42 -

B 45437 D 11 Diffr. 1 m.

	g sc.1	sc.2	h sc.1	sc.2		
1	th.		6.6 (6.8)		0.39	7.19
2		th.		th.	.	.
3		t.h.		t.h.	.	.
4		t.h.		7.4	0.25	7.65
5		th.		7.6	0.21	7.81
6		th.		7.6	0.21	7.81
7		th.		7.9	0.18	8.08
8		th.		7.6	0.21	7.81
9		8.1	8.1000	8.1	0.16	8.26
10		8.3	8.3510	8.4	0.14	8.49
11		8.4	8.4000	8.4	0.13	8.53
12		8.6	8.6000	8.6	0.11	8.71
13		8.8	8.8000	8.8	0.10	8.90
14		9.2	9.2000	9.2	0.10	9.30
15		9.6	9.5501	9.5	0.11	9.66
16		9.6	9.6501	9.7	0.12	9.77
17		10.0	10.0000	10.0	0.13	10.13
18		10.0	9.9501	9.9	0.12	10.07

~~27~~

~~28~~

2

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Salem.

B Series 42 — Alt Corr +10

B 45438 137 K 21 h

	pc.1	pc.2		Cu.		Diff. Inn. 9 h pc.2	pc.2			pc. pc.2	
1	4.8 (5.0)	5.2	5.10	1	3.77	8.87	8.35 10 8.3	8.4	0.14	8.49	9.9 − 1.54 8.36
2	5.6 (5.8)	5.9	5.85	01	3.64	9.49	9.35 01 9.4	9.3	0.11	9.46	m.s. .
3	6.5 (6.7)	6.7	6.70	00	3.52	10.22	9.95 10 9.9	10.0	0.13	10.08	
4		7.4			3.46	10.86	m.s.	m.s.	.	.	
5		7.7			3.42	11.12					
6		8.2			3.39	11.59					
7		8.4	8.3	8.35	01 3.38	11.73					
8		8.7	8.6	8.66	10 3.37	12.02					
9		8.9	8.8	8.85	10 3.36	12.21					
10		9.6	9.1	9.65	01 3.38	13.01					
11		9.5	9.1	9.60	11 3.36	12.96					
12		4	4.		.	.					
13		m.s.			.	.					
14											
15											

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Scale M-

B Series 42-

Alt Corr +08

B 45 439 161 K 2h 29m-

Diffr. 1m.

	sc.1	sc.2				q	h			P.C. sc.2	
1	B.	B.	.			5.5 sc.1 (5.3)	sc.1 tp. sc.2 8.1	.		7.6 – 1.32	6.28
2	5.5 5.3	5.4	5.45	10	3.71	9.16	tp.		0.11	8.81	ns. . .
3	5.9 5.1	5.6	5.75	12	3.66	9.41	sc.2 9.1	9.21 9.15	⊥0 0.10	9.25	
4	6.6 6.4	6.6	6.60	00	3.54	10.14	9.8	10.0 9.90	⊥1 0.13	10.03	
5		7.5			3.44	10.94	ns.	ns.		.	
6		7.7			3.46	10.66					
7		7.4			3.44	10.84					
8		7.9			3.41	11.31					
9		8.4			3.38	11.78					
10		8.6 8.6	8.60	00	3.38	11.98					
11		8.9 8.7	8.80	11	3.36	12.16					
12		9.3 9.4	9.35	⊥0	3.36	12.71					
13		9.5 9.6	9.55	⊥0	3.36	12.91					
14		1 1			.	.					
15		1			.	.					

6 is brighter than 5 on orig. plate also.

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Monday October 9, 1916.

Scale m-

B Series 42.

B 45441 C12-

	pc.1	pc.2	Diff	pc.2
1				8.0 – 1.40
2	B.		.	8.4 – 1.41
3	B		.	8.1 – 1.42
4	B.		.	9.2 – 1.64
5	3.7 3.5		4.14	9.2 – 1.36
6	4.5 4.3		3.72	9.9 – 1.68
8	B.	th.	.	9.5 – 0.90
9	5.0 5.1 4.8 4.9	5.4 5.2	5.18 3.20 3.83	m.s. .
11	5.7 5.5	5.1	5.7 0 0 3.61	
12	5.7 5.7	5.8	5.8 1 0 3.76	
14	6.5 6.3	6.5	6.5 0 0 3.41	
16	6.7 6.5	6.8	6.7 5 1 0 3.63	
17		7.3	3.35	
17a		7.7	3.38	
18	.	7.8	3.50	
20		8.5 8.4 5 1 0	8.4	3.45
21		8.7 0 0	8.7	3.53
23		9.5 0 1 1	9.4	3.51
24		9.8 9.7 5 0 1	9.7	3.69
26		9.9 9 0 0	9.9	3.76
27		m.s. m.s.	.	
29				
30				

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Scale m. B Series 42.

	B 4544 2 g sc 1	sc 2	C 12 h sc 1	sc 2	Diffr. Im.
1	th. 6.5		th.		.
2	6.3		th. 6.6		0.49
3	th.		6.4		0.68
4		th.		7.2	0.36
5		7.6	7.60 00	7.6	0.24
6		th.		8.1	0.12
8		th.		th.	.
9		th.		8.8	0.21
11		9.1	9.10 00	9.1	0.21
12		9.5	9.45 10	9.4	0.16
14		9.9	9.85 10	9.8	0.06
16		m.s.		m.s.	.
17					
18					
20					

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Scale m. B Series 42. Alt Con +08

B 45445 162 K 22 25 – 30.

	Sc.1	sc.2	Cu.		Diff. In g'	h		Sc. sc.2
	40							
1	3.8		4.01	8.01	tf	7.7	0.20	7.90	9.5 – 1.54 7.96
	51							
2	4.9	5.2 5.15 1 0	3.77	8.92	tf.	8.6	0.11	8.71	10.1 ft .
	64				9.80 00			
3	6.2	6.2 6.30 1 1	3.58	9.88	9.8	9.8	0.13	9.93	ms .
	6.5				9.95 01			
4	6.3	6.3 6.40 1 1	3.56	9.96	10.0	9.9	0.14	10.09	
	7.0							
5	6.8	6.9 6.95 0 1	3.49	10.44	7	7	.	.
6		7.6	3.43	11.03				
7		7.8	3.41	11.21				
8		7.9	3.41	11.31				
9		8.1	3.39	11.49				
		8.40 00						
10		8.4 8.4	3.38	11.78				
		8.55 1.2						
11		8.7 8.4	3.37	11.92				
		9.15 01						
12		9.2 9.1	3.36	12.51				
		9.55 0 1						
13		9.6 9.5	3.36	12.91				
		9.95 0 1						
14		10.0 9.9	3.37	13.32				
15		ms ms.	,	,				

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Scale m.

B Series 42

Alt Corr +04

B 45446 186 K. 22 45-449

	pc.1	pc.2	pc.7			Diff. Inn. q	Diff. Inn. h			P.C. pc.2	
1	3.3 3.1			11.18	7.48	1.2 7.15 9.1	1.1	0.30	7.45	8.9 – 1.47	7.43
2	B?			.	.	1.5 7.55 1.0	1.6	0.23	7.78	9.3 – 1.51	7.79
3	4.8 5.0	5.1	5.05 01	3.79	8.84	8.7 8.70 00	8.7	0.10	8.80	1.	. .
4	5.7 5.8 5.5	5.6	5.65 10	3.68	9.33	tp.	tp.	.	.		
5	5.8 6.0	5.8	5.90 11	3.64	9.54	9.8 9.75 01	9.7	0.12	9.87		
6	6.9 7.1	7.1	7.10 00	3.47	10.57	ms	ms	.	.		
7		7.21		3.46	10.66						
8		7.8		3.41	11.21						
9		8.21		3.39	11.59						
10		8.4 8.35 01	8.3	3.38	11.73						
11		8.9 8.90 00	8.9	3.36	12.26						
12		9.3 9.30 00	9.3	3.36	12.66						
13		9.3 9.40 11	9.5	3.36	12.76						
14		9.9 9.90 00	9.9	3.37	13.27						
15		1.	1.	.	.						

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Monday October 9, 1916.

Salem

B series 49

B45447* C1.

	sc 1			O.C. sc 2
1	B.	.		8.9 – 1.72
2	B.	.		9.0 – 1.61
3	B.	.		9.1 – 1.60
4	t.f.	.		9.8 – 1.84
5	4.3 4.1	B.	403	10.0 – 1.67
from 1a	5.2 5.7 ?	5.2	520 00 3.66	
from 9	t.f.	t.f.	.	ms. .
10	t.f.	t.f.	.	
11	5.8 5.6	t.f.	3.89	
12	6.3 6.1	6.1	620 1L 3.82	
13a	6.9 6.7	7.1	700 L1 3.44	
14		7.2	3.42	
15		7.9	3.14	
16		8.1 floor	3.10	
17		8.2	3.30	
18	5.1	8.8? scr.	3.14	
18a		8.8	.	
19		9.1	3.11	
20		9.6	3.02	
21		9.7	3.19	
24		m.s.?	.	
25		m.s.	.	
26				

All images elongated

* Very badly cracked. Difficult to measure on account of dust. Plate mounted on plain glass for present.

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Monday October 9, 1916.

Scale m. B Series 42.

B 45447 C 1-

g h

	sc.1 sc.2		sc.1 sc.2	
1	th.		7.1	0.08
2	th		th. cracked.	
3	th.		7.3	0.20
4	th.		th.	.
5	th.		8.3	0.03
9	9.4	9.40 00	9.4	-0.12
10	9.6	9.55 01	9.5	-0.05
11	9.7	9.65 10	9.6	0.04
12	↓		10.0	0.02
14	ms		ms.	.
15				
16				
17				
18				
19				
20				

12.40

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Wednesday October 11, 1916.

Scale M.

B Series 162.

1— B 46830 C9—

	sc 1	sc 2	sc 2	Diff.	sc. 2.
	38				
3	3.6			3.24	8.6 — 1.56
3a	4.1				8.8 — 1.45
4	3.9			3.72	9.1 — 1.28
	42				
5	4.0			3.86	9.4 — 1.34
	4.8				
6	4.6			3.67	9.6 — 1.13
6a	4.8			3.64	10.1 — 1.46
7	5.5	5.6	5.65	10 3.39	
	5.9				
8	6.1	5.9	5.90	00 3.63	
8a	5.8	6.1	6.05	01 3.63	
9	6.4	6.7	6.65	01 3.44	
	7.1				
12	6.9	7.0	7.05	10 3.52	
14		7.5		3.29	
15		7.8		3.33	
16		8.3		3.30	
17		8.4		3.43	
		8.80	00		
18		8.8	8.8	3.61	
		9.35	10		
20		9.3	9.4	3.41	
		9.50	00		
21		9.5	9.5	3.56	
		9.90	11		
22		9.8	10.0	3.50	
		10.10	00		
23		10.1	10.1	3.64	
24		m.s.	m.s.		
25					
27					
28					

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Wednesday October 11, 1916.

Salem

B Herc. 162.

B 46830 Cg - Diff. Im.

	g		h		
	sc.1 sc.2		sc.1	sc.2	Diff
	5.4 5.7	5.45 01	5.5 5.3		1.59
3a 3	th		th		
4	7.4	7.40 00	7.4		0.42
6	7.6	7.60 00	7.6		0.46
6	th.		th.		.
7	8.9	9.00 -1	9.1		0.04
	9.4	9.40 00	9.4		0.13
8a 8	9.4	9.45 01	9.5		0.23
9	4		10.1?		-0.01
12	m.s.		m.s.		.
14					
15					
16					
17					

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Scale m. B Series 162. alt. corr +.06

B 46831 DM. 16 31-275.

	pc.1	pc.2			g pc.1	g pc.2	h.		PC. pc.2
1					5.6 5.40 00 5.4 5.4		1.40	6.90	7.8 . .
2		~~8.5~~			6.4 6.25 01 6.2 6.3		9.99	7.34	8.5 -1.38 7.12
3	B.				7.20 00 7.2 7.2		0.66	7.86	8.9 -1.40 7.50
4	4.3 4.1	B	4.02	8.32	8.40 00 8.4 8.4		0.30	8.70	* 8.9 9.9 -1.35 8.55 ~~8.9 -1.40 7.50~~
5	5.7 5.5	5.5 5.60 11	3.77	9.37	9.45 01 9.4 9.5		0.06	9.51	ns . .
6	6.4 6.2	6.8 ~~6.45 01~~ ns.	3.62	10.07	9.90 11 9.8 10.0		-.005	9.85	
7	7.0 6.8	7.1 7.05 01	3.53	10.58	7 7.		.	.	
8		7.6	3.47	11.07					
9		7.9	3.46	11.36					
10		8.0	3.45	11.45					
11		8.40 00 8.4 8.4	3.42	11.82					
12		8.60 00 8.6 8.6	3.40	12.00					
13		9.00 00 9.0 9.0	3.39	12.39					
14		9.55 10 9.5 9.6	3.37	12.92					
15		9.95 10 9.9 10.0	3.35	13.30					

* Examined July 16, 1927
Assumed reading 9.9

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Scale m-

B series 162.

Alt Corr +08

B 46837 133K - 17 14-15!

	pc 1	pc 2	pc 7			Diff'd m			P.C.	
						g	h.		pc 7	
	3.9					7.60 00				
1	3.1	B.	4.09	7.99	7.6	7.6	0.53	8.13	9.3 - 1.38	7.92
2	6.62 5.0	6.2	6.20 00 3.67	9.87	10.00 00 10.0	10.0	- 0.07	9.93	ms.	
3	6.1 4.9	6.2	6.15 1 0 3.68	9.83	10.00 00 10.0	10.0	- 0.07	9.93		
4	67 6.5	6.8	6.75 1 0 3.58	10.33	ms.	ms.	.	.		
5		7.8	3.46	11.26						
6		7.9	3.45	11.35						
7		8.3	3.43	11.73						
8		8.1	3.44	11.54						
9		8.4	3.42	11.82						
10		8.1	3.41	12.11.						
11		9.4	3.38	12.78						
12		9.1 9.60 00	3.39	12.49						
13		9.6 9.6 10.00 00	3.37	12.97						
14		10.0 10.0	3.35	13.35						
15		9.75 1 0 9.1 9.8 9.75 0 1	3.36	13.11						
16		9.8 9.1 10.00 00	3.36	13.11						
17		10.0 10.0	3.35	13.35						

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Scale m. B Series 162. Alt Con +.2

* B 46833 157 K. 17 26-31.0 Eff. 15m 5s

Diffraction. GC.

	pc 1	pc 2	pc 3			pc 2	pc 3			Rc 2	
1	B.			.	.	1.2 +fv.	0.67	7.87	8.7 +1.20 w.s.	-1.39	7.31
2	3.8 43 4.1 *	B.		4.02	8.32	+f. +fd (amp.)	.	.	m.s.		.
3	5.1 53	5.1	5.20 1 1	3.83	9.03	9.35 0 1 9.4 9.3	0.08	9.43	m.s.		.
4	+f.	5.1		3.85	8.95	9.50 0 0 9.5 9.5	0.08	9.55			
5	6.4 66	6.5	6.55 0 1	3.60	10.15	f f	.	.			
6		11		3.46	11.16	m.s. m.s.	.	.			
7		11.9		3.45	11.35						
8		8.5		3.42	11.92						
9		8.6		3.41	12.01						
10		8.6	8.65 0 1 8.7	3.41	12.06						
11		9.1	9.10 0 0 9.1	3.39	12.49						
12		9.4	9.40 9.0 9.4	3.38	12.78						
13		9.4	9.50 1 9.6	3.37	12.87						
14		10.1	+f.	3.35	13.45						
15		m.s.		.	.						

* Images are very poor. See also Exposure.

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Scalem

B series 162

Alt Corr +01

B 4683 4

~~+57K~~ 41Ks - 17 14 - 21 5

	sc1	sc2	sc2			Diff. tm				
						q	h			
1	6.0 5.8	6.0	6.00	00	3.370	9.940 11 9.70	9.5	9.3 0.07	9.47	ms.
2	6.4 6.2	6.8	6.60	22	3.360	10.20	9.8 9.85	9.9 -.04	9.81	
3	6.8 6.6	7.0	6.80	11	3.356	10.46	ms	ms.	,	.
4		7.7			3.347	11.17				
5		7.8			3.346	11.26				
6		7.9			3.346	11.36				
7		8.0			3.345	11.45				
8		8.0			3.345	11.45				
9		8.0			3.345	11.45				
10		8.45 8.4	8.5	01	3.342	11.87				
11		8.55 8.5	8.6	10	3.341	11.96				
12		8.65 8.6	8.7	01	3.341	12.06				
13		9.25 9.2	9.3	01	3.338	12.63				
14		9.40 9.4	9.4	00	3.338	12.78				
15		9.95 10.0	9.9	01	3.335	13.30				

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Scale m

B series 162 –

B 46835

C 10 –

	Sc 1	Sc 2			D.C. Sc 2
1	B.		.		8.3 – 1.46
2	B.		.		8.1 – 1.29
3	B.		.		8.1 – 1.36
4	~~4~~ B		.		9.1 – 1.26
6	B.		.		10.0 – 1.50
7	3.8 3.6		4.49		9.8 – 1.51
8	4.8 4.6	tfr.	4.30		w.s. .
9	5.3 5.1	tfr.	4.10		
10	5.5 5.3	5.6	5.55 1.0	4.14	
11	6.4 6.21	6.4	6.30 1.1	3.74	
12	6.7 6.5	6.6	6.65 1.0	3.84	
13		7.3		3.43	
15		7.5		3.67	
16		8.1		3.42	
17		8.4	8.50 1.1 8.6	3.40	
18		nearly sup.		.	
19		9.5	9.55 1.0 9.6 9.75 1.0	3.19	
20		9.7	9.8	3.12	
21		~~9.5~~ w.s.f. ms.		.	
23		~~10.0~~ w.s.		!	
24		w.s.		.	
25					

Images very fine, Not nearly as good as image of first C plate in Series.

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Wednesday October 11. 1916.

Salem- B series 162-

B 46835 C 10.

g h

	sc.1	sc.2	sc.1	sc.2	
	5.5		5.5		
1	5.3	5.50 00	5.3		1.34
	6.5		6.6		
2	6.3	6.55 10	6.4		0.86
	6.5		6.3		
3	6.3	6.40 11	6.1		0.94
4	+fr.		+fr.		.
6	+fr.		+fr.		.
7		+fr.		+fr.	.
8		88 8.75 01		8.7	0.35
9		9.6 9.60 00		9.6	-0.20
10		+fr.		9.6	0.09
11		+fr.		10.0	0.04
12				m.	.
13					
15					

2.40

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Wednesday October 25, 1916 -

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Scheim - B Series 117 - Alt Coor - 19

9:50 B 6374 E 2.

Oc.

	pc.1	pc.2	Cm.		sc.2		
1	B.		.		86 Nfm.	- 1.47	7.13
2	B		.		9.1	- 1.41	7.69
3	4.7 4.5		3.22	7.92	9.21	- 1.40	7.80
4	4.7 4.5?		3.22	7.92	88	- 1.44	7.36
5	5.9 4.8		3.16	8.16	9.2	- 1.40	7.80
6	5.9 4.8		3.16	8.16	9.2	- 1.40	7.80
7	5.4 5.21		3.12	8.52	9.4	- 1.37	8.03
8	5.4 5.21		3.12	8.52	9.5	- 1.35	8.15
9	5.5 5.3		3.11	8.61	9.6	- 1.34	8.26
10	5.8 5.6		3.09	8.89	9.8	- 1.30	8.50
11	5.8 5.6	5.6 5.70	1 1 3.09	8.79	9.1	- 1.32	8.38
12	5.7 5.5	5.7 5.70	00 3.09	8.79	9.6	- 1.34	8.26
13	5.9 5.1	6.1 6.00	1 1 3.06	9.06	10.0	- 1.26	8.74
14	6.4 6.21	6.3 6.35	0 1 3.03	9.38	n.s.		.
15	6.5 6.3	6.6 6.55	1 0 3.02	9.57			
16	6.6 6.4	6.5 6.55	0 1 3.02	9.57			
17	.	.					
18	6.8 6.5	6.6 6.70	1 1 3.02	9.72			
19	6.8 6.6	7.1 6.95	2 1 3.02	9.97			
20		7.2		3.01	10.21		
21		7.6		3.03	10.63		
22		7.7		3.03	10.73		
23		7.7		3.03	10.73		
24		7.9		3.04	10.94		
25		8.2		3.08	11.28		
26		8.3		3.09	11.39		

nearly surf. on diffr. rings of 13

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Scale m. B Series 117-

B 46374 E2

	pc.	pc.	Cu.	
27	nearly sufr-			
28	8.7		3.15	11.85
29	8.6		3.14	11.74
30	8.6		3.14	11.74
31	8.9		3.20	12.10
	9.10 0 0			
32	9.1	9.1	3.24	12.34
	9.05 2 1			
33	9.2	8.9	3.23	12.28
	9.30 0 0			
34	9.3	9.3	3.29	12.59
	9.50 1 1			
35	9.6	9.4	3.33	12.83
	9.45 0 1			
36	~~9.6~~ 9.4	9.5	3.31	12.76
	9.60 0 0			
37	9.6	9.6	3.35	12.95
	9.90 1 1			
38	9.8	10.0	3.42	13.32
39	4.	4	.	.
40	n.s.	n.s.	.	.

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Salem-

B Series 117.

Alt Corr -19

B 46374 E 2 Diffr Im.

g h

	sc.1	sc.2	sc.1	sc.2		
1	tf.		tf.		.	
2	7.5	7.55	7.6		0.01	7.56
3	7.4	7.50	7.6		0.02	7.52
4	7.6	7.40	7.21		0.02	7.42
5	7.7	.	tf.		0.01	7.71
6	7.8	7.85	7.9		0.00	7.85
7	tf.		tf.		.	
8	tf.		tf.		.	
9	8.3	8.25	8.2		0.00	8.25
10	8.3	8.25	8.2		0.00	8.25
11	8.3	8.35	8.4		0.01	8.36
12	8.5	8.45	8.4		0.03	8.48
13	sup.		sup.		.	
14	8.7	8.70	8.7		0.06	8.76
15	9.1	9.15	9.2		0.12	9.27
16	9.2	9.25	9.3		0.15	9.40
17	sup.		sup.		.	.
18	9.4	9.35	9.3		0.16	9.51
19	9.5		tf.		0.18	9.68
20	tf.		9.4		0.17	9.57
21	10.1	9.95	9.8		0.24	10.19
22	t.		t.		.	.
23	tf.		10.0?		0.26	10.26?
24			h.s.			

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Scale m. B Series 117- Att Corr - 04

B 46375 D3- 5-15

	pe1	pe2			P.C. Dec		
1	B.		.		8.2	- 149	6.71
2	.		.		8.0	- 150	6.50
3	.		.		8.2	- 149	6.71
4	B.		.		8.1	- 146	7.24
5	3.6	3.8	337	7.17	8.1	- 146	7.24
6	B		.		8.6	- 147	7.13
7	B.		.		9.2	- 140	7.80
8	3.6	3.8	337	7.17	8.9	- 144	7.46
9	4.7	4.9 4.9	5.1 5.1	5001 3.16 11	8.16	9.5 - 135	8.15
10	5.2	5.4	5.6	5501 3.11	8.61	9.1 - 132	8.38
10 b	5.8	6.0	6.2	6101 3.05	9.15	m.s. '	'
11	5.5	5.7	5.6	5610 3.10	8.75	7. '	'
12	5.2	5.4	5.6	5501 3.11	8.61		
13	5.1	5.9	5.9	59000 3.06	8.96		
14	6.4	6.6	6.8	6701 3.02	9.72		
15	6.3	6.7	6.7	67000 3.02	9.72		
16	6.7	6.9	6.9	69000 3.02	9.92		
17			7.3	3.01	10.31		
18			7.7	3.03	10.73		
19			7.7	3.03	10.73		
20			7.8	3.04	10.84		
21			8.1	3.06	11.16		
22			8.8	3.18	11.98		
23			8.2	3.08	11.28		
24			8.8	3.18	11.98		
25			9.1	3.24	12.34		
26	7.1		9.3	3.29	12.59		
10 a	6.9		7.1	71000 3.01	10.11		

Prig. Comp.
Diffr. Images on Preceding side of plate are much better than those on the following side.

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Salem

B Series 117.

B46375 D3.

	Sc 1	Sc 2		
	9.45	0 i		
27	9.4	9.5	3.32	12.77
	9.50	0 6		
28	9.5	9.5	3.33	12.83
	9.80	0 6		
29	9.8	9.8	3.40	13.20
	10.00	1 1		
30	9.9	10.1	3.45	13.45
31	1.	1.	.	,
32				

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Salem - B Series 117 - Alt Cor - 04

	B 4637/5 g		D3 h		Diffr. Inv.	
	pc.1	pc.2	pc.1	pc.2		
1	6.5 6.3	6.5 6.5 1 0	6.6 6.4		0.06	6.61
2	th.		th.		.	.
3	th.		th.		.	.
4	6.8 6.6	6.70 1 1	6.6 6.4		0.05	6.75
5	th.			7.3	0.02	7.32
6	th.			th.	.	.
7	th.			th.	.	.
8		sup.?		7.6	0.02	7.62
9		8.1 8.10 0 0		8.1	0 0 0	8.10
10		8.2 8.25 0 1		8.3	0 0 0	8.25
* 11		8.4 8.35 0 1		8.3	0.01	8.36
12		8.6 8.60 0 0		8.6	0.04	8.64
13		8.8 8.95 2 1		9.1	0.10	9.05
14		9.7 9.70 0 0		9.7	0 2 1	9.91
15		9.7		sup.?	0 2 1	9.91
16		10.0 10.00 0 0		10.0	0.26	10.26
17		n.s.		n.s.	.	
18				n.s.	.	
19				n.s.	.	
20						
21						
22						
* 10 b		8.6 8.65 0 1		8.7	0.05	8.70
10 a				7	.	

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Scale M. B Series 117.

B 46376 C4.

P.C.

	sc.1	sc.2		Diff	sc.2
1	B. 3.9			.	83? nearly sup. — 1.59
2	3.4 40			3.31	8.6 — 13.9
3	3.8 4.2			3.32	8.6 — 1.28
4	3.840	4.3	42501	349	9.2 — 1.46
4a	4.47 46 4445	4.9	4.4782 L	317	9.3 — 1.35
	53 5.1	5.2	52510	316	9.7? close to bit star. — 1.29
7	55 53	5.6	55510	319	10.0 — 1.26
8	58 5.6	5.1	57501	312	very ft 10.1? — 1.23
9	60 5.8	6.4	62022	314	
9a	64 6.2	6.5	64501	317	
11	7.8 6.8	6.9	69501	300	
13		1.4		2.79	
14		1.8		2.94	
16		8.1		3.00	
17		8.4		3.10	
		8.50	11		
18		8.6	8.4	3.43	
		9.00	11		
19		9.1	8.9	3.12	
		9.45	10		
20		9.5	9.4	3.05	
		9.65	10		
22		9.1	9.6	3.13	
		9.50	00		
23		9.5	9.5	3.50	
		9.90	00		
24		9.9	9.9	3.67	
26		n.s.	n.s.	.	
27					
27a					
nl					
2		8.8		3.58	

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1910phae.proj.10780

Wednesday October 25, 1916.

Scale m-

B Series 117.

	B 46376		C4-	Diff. Inv.
	g		h	
	sc.1 sc.2		sc.1 sc.2	
	6.4		6.6 6.4	
1	6.2	6.50 L1		0.21
2	7.3	7.40 L1	7.5	-0.19
3	th.		th.	"
4	7.8	7.80 00	7.8	-0.06
5	8.4	8.40 00	8.4	0.01
7	8.4	8.50 L1	8.6	0.24
8	8.6	8.65 01	8.7	022
9	9.4	9.25 21	9.1	0.09
11	9.6	9.60 00	9.6	0.35
13	10.1	10.05 10	10.0	0.14
14	th.		th.	"
16				
17				
18				
4a	7.9	8.00 L1	8.1	-0.05
9a	9.3	9.30 00	9.3	0.32

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Scale M-

B Series 117.

Alt Con -02

B 46378 E3-

O.C.

	pc.1	pc.2	sc.2			pc.7		
1	B dbl.			.		8.6	− 1.47	7.13
2	B			.		8.6	− 1.47	7.13
3	B.			.		8.6	− 1.47	7.13
4	4.3 4.1			3.30	7.60	8.8	− 1.45	7.35
5	4.8 4.6			3.20	8.00	9.25	− 1.40	7.80
6	4.9 4.7			3.19	8.09	9.2	− 1.40	7.80
7	5.1 4.9	5.1	5.10 0 0	3.16	8.26	9.5	− 1.35	8.15
8	5.8 5.6	5.6	5.70 1 1	3.09	8.79	9.8	− 1.30	8.50
9	5.9 5.7	5.8	5.85 1 0	3.08	8.93	10.1	− 1.24	8.86
10	6.3 6.1	6.3	6.30 0 0	3.04	9.34	m.s.	.	
11	6.4 6.2	6.6	6.50 1 1	3.03	9.53			
12	6.6 6.4	6.6	6.60 0 0	3.02	9.62			
13	dbl.?	dbl.		.	.			
14	6.8 6.6	6.8	6.80 0 0	3.02	9.82			
15	7.1 6.9	6.9	7.00 1 1	3.01	10.01			
16	6.9 6.7	6.8	6.85 1 0	3.02	9.87			
17		7.6		3.03	10.63			
18		7.6		3.03	10.63			
19		8.2		3.08	11.28			
20		8.0		3.05	11.05			
21		8.0		3.05	11.05			
22		8.0		3.05	11.05			
23		8.3		3.09	11.39			
24		8.6		3.14	11.74			
25		8.7		3.16	11.86			
26		8.8		3.18	11.98			

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Wednesday October 25, 1916.

Scale M. B Series 117.

B 46378 E 3

	sc. 1	sc. 2		
27	8.1	8.8	3.16	11.91
28	9.2	9.2	3.26	12.46
29	9.3	9.4	3.30	12.65
30	9.4	9.6	3.33	12.83
31	9.6	9.8	3.40	13.20
32	9.7	9.6	3.37	13.02
33	9.9	9.9	3.43	13.33
34	f.	f.	,	,
35	ms.	ms.	,	,

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Wednesday October 25, 1916.

Cofried B 27:116

Scale m-

B Series 117-

Alt Com-02

B 46378 E3-

	sc.1	sc.2	sc.1	sc.2		
	g		h			
1	7.5	74510	7.4 dbl.		0.02	7.47
2	th.		7.5		0.02	7.52
3	th.		7.5		0.02	7.52
4	7.5	75510	7.6		0.02	7.57
5	~~th.~~ 7.5	75510	7.6		0.02	7.57
6	7.8	77011	7.6		0.01	7.71
7	7.9	80011	8.1		0.00	8.00
8	8.4	84000	8.4		0.02	8.42
9	8.1	86510	8.6		0.05	8.70
10	th.		th.		.	.
11	9.25	91501	9.1		0.13	9.28
12	9.1		th.		0.12	9.22
13 dbl.	.		th.		.	.
14	9.5		~~9.8~~ sup.		0.18	9.68
15	9.3	94011	9.5		0.17	9.57
16	9.4	94501	9.5		0.18	9.63
17	10.1?	th	th.		0.28	10.38?
18	ns.		ns.		.	.
19						
20						
21						
22						

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Copied B 27: 182

Scale m. B series 117- Alt Cour - 44

B 46379 * 72-

P.C.

	pc.1	pc.2			pc.2		
1	B.		,		8.8	– 1.44	7.36
2	th.		,		9.2	– 1.40	7.80
3	4.3 4.1		3.30	7.60	9.5	– 1.35	8.15
rej. 4	~~3.6?~~ 5.3		,	,	9.5	– 1.35	8.15
5	5.1		3.13	8.43	10.0	– 1.36	8.64
6	~~4.4~~ 5.2 5.0		3.14	8.34	1	,	,
7	th.		,	,	th.	,	,
8	4.9 4.7	th.	3.19	8.09	9.8	– 1.30	8.50
9	5.5 5.3	th.	3.11	8.61		,	
10	5.5 5.3	5.5	5.5000	3.11	8.61	1	,
11	th.	th.	,	,			
12	5.9 5.7	6.2	6.05 L2	3.05	9.10		
13	6.1 5.9	6.1	6.10 00	3.05	9.15		
14	6.4 6.2	6.4	6.40 00	3.03	9.43		
15	6.7 6.5	6.8	6.75 L0	3.02	9.77		
16		7.2		3.01	10.21		
17		7.3		3.02	10.32		
18		7.4		3.02	10.42		
19		8.1		3.06	11.16		
20		8.4		3.11	11.51		
21		8.8		3.18	11.98		
22		8.1		3.15	11.85		
23		8.1		3.15	11.85		
24		8.6		3.14	11.74		
25		9.0		3.22	12.22		
26		8.1		3.15	11.85		

* Images poor - Elongated.

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Wednesday October 25, 1916

Salem.

B Series 117.

B 46381 f 2 cont

	Sc 2	Sc 7		
	9 20	0 0		
27	9.2	9.2	3.26	12.46
	9.30	1 1		
28	9.2	9.4	3.29	12.59
	9 20	0 0		
29	9.2	9.2	3.26	12.46
	9 40	0 0		
30	9.4	9.4	3.31	12.71
	9.40	0 0		
31	9.4	9.4	3.31	12.71
	9.86	1 0		
32	9.9	9.8	3.41	13.26
33	f.	f	.	.
34	f	f.	.	.
35	ms		.	.

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Wednesday October 25, 1916.

Cofried B 27:182

Salem.

B Series 117.

Alt Con - 111

B 46381 Hz. Diffr. Inn.

g h.

	Sc. 1 Sc 2		Sc. 1 Sc 2		
1	7.3 poor	7.25 10	7.21 poor	0.02	7.27
2	th.		th.	,	,
3	th.		th.	,	,
4	th.		7.8	0.01	7.81
5	th.		th.	,	,
6	th.		8.3	0.01	8.31
7	8.2		th.	0.00	8.20
8	th.		8.4	0.02	8.42
9	th.		8.4	0.02	8.42
10	8.7	8.70 00	8.7	0.06	8.76
11	th.		th.	,	,
12	9.3	9.35 10	9.4	0.16	9.51
13	9.5	9.55 10	9.6	0.19	9.74
14	~~9.5~~ 9.8	9.75 01	~~9.6~~ 9.9	0.22	9.97
15	1		9.9	0.25	10.15
16	1		1	,	,
17					
18					
19					

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Wednesday October 25, 1916

Salem.

Cofried B 34184

B Series 117.

Alt Con – 08

B 46382 192 K –

	Rc.1	Rc 2				Diffr. Inn.				D.C.
						a	b			Rc 2
1	5.2 5.0	5.3	3.13 5.25 01		8.38	7.90 00 7.9	7.9 poor	0.00	7.90	10.0 – 126 8.74
2	5.9 6.0 5.1 5.8	6.2 6.1	3.06 6.05 10 21		9.11	8.70 00 8.7	8.7	0.06	8.76	1. . .
3	7.1 6.9	1.3	3.02 7.20 1 1		10.22	10.00 00 10.0	10.0	0.26	10.26	
4		7.6	3.03		10.63	1	1	.	.	
5		7.8	3.04		10.84					
6		8.0	3.05		11.05					
7		8.4	3.11		11.51					
8		8.4	3.11		11.51					
9		8.7	3.16		11.86					
10		8.7	3.16		11.86					
11		8.8 8.9	8.85 01 3.19		12.04					
12		8.7 9.0	8.85 1 1 3.19		12.04					
13		9.2 9.4	9.30 1 1 3.28		12.58					
14		9.6 9.7	9.50 1 1 3.32		12.82					
15		10.0 10.1	10.05 01 3.46		13.51					
16		1. 1.	.		.					

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Salem. B Series 117- Att Corr 00

B 46383 28 KS

	pc 1	pc 2			Diffr. Inv. q	h			P.C. pc 2	
	B.	B.			7.10 00					
					9.1	9.1	0.03	7.13	9.1 – 1.41	7.69
h	5.1 5.3 5.4 5.2 7.0	5.6 5.5	5.445 1021 3.11	8.56	8.5	8.5	0.04	8.59	h.	.
3	6.8	7.1	7.05 01 2.01	10.06	th.	th.	.	.		
					9.95 01					
4		7.6	3.03	10.63	10.0	9.9	0.10	10.05		
5		7.9	3.04	10.94	th.	th.	.	.		
6		8.21	3.08	11.28						
7		8.4	3.11	11.51						
8		8.5	3.13	11.63						
9		8.7	3.16	11.86						
10		8.9	3.20	12.10						
		9.25 01								
11		9.2 9.3	3.28	12.53						
		9.30 00								
12		9.3 9.3	3.29	12.59						
		9.65 10								
13		9.7 9.6	3.36	13.01						
		10.00 00								
14		10.0 10.0	3.46	13.46						
		10.00 00								
15		10.0 10.0	3.46	13.46						
16		h. h.	.	.						

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Wednesday October 25, 1916.

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Scale M. B Series 117. Alt Corr +6

*B 46384 150 K.

	Sc 1	Sc 2	Sc 2			Diff. Inv g h	Q.C. Sc 2
1	1.3			3.02	10.32	n.s. n.s.	n.s.
4	1.5			3.02	10.52		
3	8.1			3.06	11.16	n.s.	
4	84			3.11	11.51		
5	8.5	8.50	8.5	3.12	11.62		
6	9.3	9.30	9.3	3.29	12.59		
7	10.0	10.00	10.0	3.45	13.45		
8	4.	4.					
9							
10							
11							
12							
13							
14							
15							

* To be rejected from Series? Only 7 or 8 plates out of 15 seen!!!! and no pris. comp. or diff. images seen.

12:50

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Thursday, October 26, 1916.

Scale M. B Series 121

9:31 B 46423 C8. 15 +15°.

P.C.

	sc.1	sc.2			sc.2
1					8.1 — 1.50
3	4.8 4.6			3.29	9.4 — 1.31
near Edge. 4	.			.	9.0 9.1 9.2 1.38
8	5.5 5.3	5.6	5.55	1 0 3.42	n.s.
6a	G.	+h.			9.8 — 1.01
9	5.8 5.6	5.6	5.70	1 1 3.52	n.s.
11	6.0 5.8	6.1	6.05	0 1 3.46	
12	6.5 6.3	6.5	6.50	0 0 3.25	
14	6.6 6.4	6.4	6.65	0 1 3.32	
15		7.2		3.16	
16		7.2		3.32	
18		7.4		3.28	
20a				.	
21	23	8.1		3.32	
22		8.4		3.42	
25		8.5 8.8	8.75	1 0 3.51	
25a		8.8 8.9	8.85	2 1 3.82	
26		9.2 9.2	9.20	0 0 3.53	
27		9.4 9.4	9.40	0 0 3.91	
27a		9.8 9.9	9.85	2 1 3.83	
28		9.9 n.s. 4.		.	
29		4.		.	
30					

See also next page.

All images are elongated and not comparable with scale.

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Thursday October 26, 1916.

Scale m. B Series 121-

	B 46473 g Rc.1	sc.2		C8 h Rc.1	sc.2	Diffr. Imv.
1	t.p.			6.8 6.6		0.40
3	7.5	7.55	1.0	7.6		0.54
4	t.p.			t.p.		.
8	8.6	8.65	0.1	8.1		0.32
9	8.1			t.p.		0.52
11	9.3			t.p.		0.21
12	t.p.			9.5		0.25
14	9.9	9.80	1.1	9.1		0.17
15	?.			100?	??	0.36
16	n.s.			n.s.		.
18						
20a						
21						
22						
25						
6a	t.p.			t.p.		

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Thursday October 26, 1916. Cofnid B 27; 144

Scale m. B Series 121- Alt Corr + 01

B 46424 E6 — 14 40 -45°

	sc.1				Pc. Diff. Inn. sc.2				P.C. sc.2		
1	B.	.			tf. 6.35 tf. 1.6	.			8.0	.	.
2		.			6.3 6.4	0.57	6.92		8.1	-1.34	6.76
3		.			tf. 6.4	0.55	6.95		8.1	-1.34	6.76
4	B.	.			tf. 6.6 tf. tf.	0.52	7.12		8.4	-1.34	7.06
5	B	.			tf. 6.8	0.50	7.30		8.4	-1.34	7.06
6	B	.			tf. 7.35 7.3 0.1	0.42	7.72		8.9	-1.31	7.59
7	4.0 3.8		3.74	7.74	1.4 7.90 1.3 0.0	0.41	7.76		9.0	-1.30	7.70
8	4.9 4.1		3.57	8.47	1.9 8.15 1.9 0.1	0.35	8.25		9.3	-1.26	8.04
9	4.9 4.1	4.9	4.90 0.0	3.57	8.47	8.2	8.1	0.31	8.46	9.5	-1.23	8.27
10	4.9 4.1	5.1	5.00 1.1	3.55	8.55	tf. 8.45 tf. 1.0	.		.	9.5	-1.23	8.27
11	5.4 5.2	5.5	5.45 0.1	3.50	8.95	8.5 8.55 8.4 1.9	0.29		8.74	sup? or def?		.
12	5.6 5.3	5.5	5.50 0.0	3.49	8.99	8.5 8.60 8.6 0.0	0.28		8.83	10.1	-1.09	9.01
13	5.6 5.4	5.6	5.60 0.0	3.47	9.07	8.6 9.15 8.6 1.0	0.28		8.88			
14	6.0 5.8	6.0	6.00 0.0	3.43	9.43	9.1 9.05 9.2 1.2	0.25		9.40			
15	6.1 5.9	6.0	6.05 1.0	3.42	9.47	8.9 9.1 from 9.35 9.2 1.0 from 9.0	0.25		9.30	m.s.		
16	6.0 5.8	6.1	6.05 0.1	3.42	9.47	8.9 9.35 8.9 1.0	0.25		9.25			
17	6.4 6.2	6.2	6.30 1.1	3.40	9.70	9.3 9.40 9.4 0.0	0.25		9.60			
18	6.4 6.2	6.4	6.40 0.0	3.38	9.78	9.4 9.40 9.4 0.0	0.25		9.65			
19	6.5 6.3	6.4	6.45 1.0	3.38	9.83	9.4 9.80 9.4 0.0	0.25		9.65			
20	6.7 6.5	6.7	6.70 0.0	3.36	10.06	9.8	9.8	0.26	10.06			
21		7.2		3.35	10.55	↓	↓	.	.			
22		7.2		3.35	10.55	↓	↓	.	.			
23		7.3		3.35	10.65							
24		7.4		3.36	10.76							
25		7.6		3.36	10.96							
26		7.8		3.39	11.19							

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Salem. B Series 171-

B 46424 E6

	sc 1	sc 2		
27	8.3		3.347	11.77
28	8.5		3.351	12.01
29	8.6		3.353	12.13
30	8.8		3.358	12.38
31	8.9		3.360	12.50
32	8.90 1 1 9.0	8.8 9.00 1 1	3.360	12.50
33	9.1	8.9 9.30 1 1	3.362	12.62
34	9.25	9.4 9.45 0 1	3.370	13.00
35	9.4	9.5 9.70 0 0	3.374	13.19
36	9.7	9.7	3.375	13.345
37	9.6 9.65 0 1	9.7 9.80 0 0	3.380	13.45
38	9.8	9.8 10.00 0 0	3.384	13.64
39	10.0	10.0 10.10 0 0	3.390	1390
40	10.1	10.1	3.390	1400
41	m.s.	m.s.		

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Thursday October 26, 1916

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Scale m. B series 121-

B 46425 155 K. $15^h\ 27^m = 29.9°$

Alt Corr +06

	sc.1	sc.2	sc.2				Diffs Ins. g	Diffs Ins. h	P.C.	P.C. sc.2
1	5.1 (5.9)	5.9	5.90	00	3.344	9.34	8.7 (8.70 sc.2)	8.7 (8.70 sc.2)	0.26	8.96
2	6.6 (6.8)	6.1	6.75	01	3.36	10.11	100	tf.	0.25	10.25
3	6.8 (7.0)	7.1	7.05	01	3.35	10.40	〃	〃	,	,
4		7.4			3.36	10.76	ms.	ms.	,	,
5		7.7			3.38	11.08				
6		7.9			3.40	11.30				
7		8.3			3.47	11.77				
8		8.4			3.49	11.89				
9		8.4			3.49	11.89				
10		8.6			3.54	12.14				
11		8.8 (8.80)	8.8	00	3.58	12.38				
12		9.1 (9.05)	9.0	10	3.63	12.68				
13		9.5 (9.40)	9.3	11	3.73	13.13				
14		9.6 (9.65)	9.7	01	3.80	13.45				
15		9.8 (9.75)	9.7	01	3.83	12.58				
16										

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Thursday October 26, 1916.

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Salem B Series 121 - Alt Con -09

B 46476 195K

	pc.1	pc.2	Dc.2			Diff. Inm. 9 h pc.2	Dc.2			pc.2
1	4.7 4.5 4.6	5.14.9	4882	3.57 1.20	8.45	tk.	8.1			9.6 – 12.1 8.39
2	5.4 5.2	5.5	5480	1 3.50	8.95	8.65 8.1	1.0 8.6	0.32	8.97	ms.
3	6.1 5.9	6.1	6.10	00 3.42	9.52	8.8	tk.	0.26	9.06	
4	6.9 6.7	6.9	6.90	00 3.35	10.25	9.85 9.8	0.1 9.9	0.26	10.11	
5		7.8		3.35	10.65	tk.	10.0	0.26	10.26	
6		7.3		3.35	10.65	ms	ms.			
7		7.6		3.36	10.96					
8		7.6		3.36	10.96					
9		7.7		3.37	11.07					
10		8.1		3.44	11.54					
11		8.2		3.45	11.65					
12		8.4		3.49	11.89					
13		8.5	8.50	00 3.51	12.01					
14		8.7	8.75	1 0 3.57	12.32					
15		9.4	9.45	0 1 3.74	13.19					
16		9.9	9.85	1 0 3.85	13.70					

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Thursday October 26, 1916 -

Salem

B Series 121 -

B 46 427 Cg - 17 + 15°

	sc 1	sc 2	Diff.	Diff 1 m.			P.C. sc 2
				9 h	sc 2		
3 B.			:		6.4000		
3a				6.4	6.4	0.64	8.4 − 1.36
4 38	3.6		4.02		7.45 01		8.6 − 1.25
42				1.4	1.5	0.37	8.9 − 1.08
5	4.0		3.86		7.80 00		
47				1.8	1.8	0.26	9.2 − 1.14
6	4.5		3.77		8.30 1		
52				8.2	8.4	0.17	9.1 − 1.23
6a	5.0	5.1	5.15 01 3.49.	+b	9.00 8.4	0.24	10.0 − 1.36
55				9.1	8.9	0.04	n.s. .
7	5.3	5.5	5.50 00 3.54		9.25 1.0		
60				9.3	9.2	0.28	
8	5.8	6.1	6.05 01 3.48	+b	9.3	0.38	
8a	5.8	6.1	6.05 01 3.63		9.85 1.0		
9 66	6.4	6.6	6.60 00 3.49	9.9	9.8	0.24	
12		1.3	3.27	7	7.	.	
14		1.5	3.29				
15		8.0	3.13				
16		8.1	3.50				
		8.40 00					
17		8.4 8.4	3.43				
		8.80 00					
18		8.8 8.8	3.61				
		9.25 01					
20		9.2 9.3	3.51				
		9.56 2.1					
21		9.7 9.7	3.51				
		9.62 1.1					
22		9.5 9.7	3.80				
23		n.s? ±	.				
		10.10 00					
24		10.1? 10.1	3.83				
25		n.s. n.s.	,				
27							
21							

10:55

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Monday November 6, 1916.

Sheet 134

Scale m. B series 63 -

12 B45733 C12 23+15°
P.C.

	pc.1	pc.2	Diff	pc.2
1				8.0 — 1.40
2				8.4 — 1.41
3				8.6 — 1.32
4				9.0 — 1.44
5	4.3 4.1		54 3.28	9.21 — 1.36
6	4.6 4.4		3.62	9.6 — 1.38
edge 8	t.f.		.	9.6 — 1.00
9	5.4 5.2	5.6	5.50 L 1 3.51	n.s.
11	5.8 5.6	5.7	5.75 0 L 3.56	
12	6.1 5.9	6.1	6.10 0 0 3.51	
14	6.6 6.4	6.5	6.55 0 L 3.36	
16	7.0 6.8	6.9	6.95 0 L 3.43	
17		1.4	3.25	
17 a		1.7	3.38	
18		1.7	3.60	
20		8.4	3.50	
21		8.6	3.63	
23		9.3 9.20 L 1 9.3	3.81	
24		9.3 9.35 L 0 9.4	409	
26		9.1 9.65 1 0 9.6	401	
27		9.9 9.95 L 0 10.0	406	
29 ~~28~~		~~10.0~~ n.s. ~~10.0~~		
30		n.s.		

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Monday November 6. 1916.

Scale m. B Series 63

A 45733 C 12. Diffr. Inv.

	g sc.1	g sc.2	h sc.1	h sc.2	
1	t.f.		6.1 5.9		0.50
2	6.5 6.3	6.45 10	6.4 6.2		0.54
3	t.f.		6.7 6.5		0.58
4		t.f.		7.3	0.26
5		7.4	7.50 L1	7.6	0.34
6		t.f.		7.1	0.52
8		t.f.		t.f.	.
9		8.5	8.55 L0	8.6	0.46
11		t.f.		8.8	0.51
12		9.2	9.15 0 1	9.1	0.46
14		9.9	9.85 10	9.8	0.06
16		10.1		9.5	0.28

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Scale m.

B Series 63.

Alt Corr +07

B 45704 138K 22h 11

Diffs lm.

	Pc.1	Pc.2	Pc.2	Cu.	Magn	q	h.	1 wc. unit			Pc. pc.2
	3.7										
1	3.5 5.6	B.		3.84	7.54	h.	8.1	0.63 0.49	7.73 ~~8.59~~		8.1 _ 1.27 7.43
2	5.3	5.4	5.45 10	3.56	9.01	th.	8.6	0.42	9.02		f.
							9.90 00				
3		7.2		3.49	10.69	9	9.9	0.27	10.17		
4		7.4		3.50	10.90	7	7	.	.		
5		7.1		3.52	11.22						
6		8.0		3.57 6	11.57 6						
7		8.2		3.59	11.79						
8		8.8		3.70	12.50						
		9.15 1 0									
9		9.1	9.2	3.80	12.95						
		9.25 0 1									
10		9.2	9.3	3.83	13.08						
		9.50 00									
11		9.5	9.5	3.90	13.40						
12		f.	f.	.	.						
13			nos.	.	.						

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Scale M B Series 63 Alt Cor – .18

B 45737[5] R Indi 22 29-67.8

	sc.1	sc.2				Diff'l m. q	Diff'l m. h			P.C sc.2	
	4.9					sc.2	sc.2				
a	4.7	5.1	500	1 1	3.61	8.61	t.h. 1.9	0.51	8.41	9.4 – 1.18	8.22
	6.1						9.45 1.2				
b	5.9	6.1	610	00	3.50	9.60	9.5 9.7	0.32	9.77	ws.	.
	6.8	6									
c	6.8 ws.	6.9	685	01	3.48	10.33	ws ws.	.	.		
	6.9										
d	6.7	6.9	690	00	3.48	10.38					
e		7.3			3.50	10.80					
f		7.6			3.52	11.12					
f'		7.8			3.53	11.33					
g		8.0			3.56	11.56					
h		8.4			3.62	12.02					
		885	10								
h'		8.9	8.8		3.70	12.55					
		895	10								
h''		8.9	9.0		3.74	12.69					
		9.70	00								
k		9.1	9.1		3.96	13.66					
l		f.	f.		.	.					
R Indi		ws.	ws.		.	.					

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Monday November 6, 1916

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Salem.

B Series 63.

Alt Corr = .11

B 45736 γ Tucanae 22 34 -62.1

		pc 1	pc 2			Diffr 2m. q	pc 2		
a'	3.		.			th. 5.1	0.87	6.57	8.1 hor — 1.30	6.80
b'	B.		.			th 6.6	0.70	7.30	8.1 — 1.26	7.44
c'	B.		.			th. th.	.	.	9.1 — 1.23	7.87
d'	4.1			3.63	8.53	8.2 8.1	0.48	8.63	10.0 — 1.06	8.94
f'	5.5	5.1	5.70 0 0	3.54	9.24	th. 8.1	0.41	9.11		
a	5.8	6.1	6.05 0 1	3.51	9.56	9.1 8.9	0.38	9.38		
e'	5.0	5.4	5.30 L 1	3.58	8.88	th th.	.	.	ms.	
c	6.1	6.9	6.90 0 0	3.48	10.38	9.9 9.8	0.27	10.12		
b	6.9	6.9	7.00 1 L	3.48	10.48	7 7	.			
h'	6.9	7.2	7.15 L 0	3.50	10.65					
h²		7.5		3.51	11.01					
d		7.1		3.52	11.22					
e		8.4		3.62	12.02					
f		8.1		3.58	11.68					
g		8.2	9.15 L 0	3.60	11.80					
h		9.1	9.40 0 0	3.80	12.95					
k		9.4	9.65 0 1	3.87	13.27					
g'		9.6	9.7	3.94	13.59					
8		~~10.0~~	~~L~~	.	,					
Var.		~~8.4~~	10.0	4.08	14.08					

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Monday, November 6, 1916. Copied 45: 191

B Series 63. Alt Cont +.06

B 45737 Aquarii 22 51 - 20.0

	pc.1	pc.2		Cu.	Magn	Diffr'n. q	p	Cu.	Magn	Pc. pc.2	Cu.	Magn
a	B.			.		tf.	tf.	.		8.1	1.31	6.79
b	B.			.		tf.	6.4	0.73	7.13	8.5	1.29	7.21
c	B.			.		tf.	tf.	.	.	8.6	1.28	7.32
d	4.9 4.7			3.63	8.53	8.10 00 8.1	8.1	0.49	8.59	9.6	1.16	8.44
f	5.7 5.5			3.54	9.24	9.20 1 L 9.3	9.1	0.34	9.54	n.s.	.	.
h	5.2 5.0	5.4	5.30 L 1	3.58	8.88	tf.	8.3	0.47	8.77	10.1	1.04	9.06
l	5.1 4.9	5.4	5.25 L 2	3.59	8.84	8.35 0 1 8.4	8.3	0.46	8.81	10.1	1.04	9.06
k	5.9 5.1	5.9	5.90 00	3.52	9.42	9.00 L 1 8.9	9.1	0.37	9.37	n.s.	.	.
l	5.7 5.5	5.6	5.65 1 0	3.54	9.19	8.60 00 8.6	8.6	0.42 0.33	9.02			
m	6.3 6.1	6.4	6.35 L 0	3.49	9.84	9.35 0 1 9.4	9.3	0.33	9.68			
g	6.4 6.2	6.3	6.35 0 1	3.49	9.84	9.45 0 1 9.4	9.5	0.31	9.76			
m	6.7 6.5	6.9	6.80 L 1	3.48	10.28	ns	ns.	.	.			
p		1.5		3.51	11.01							
o		1.6		3.52	11.12							
r		1.1		3.53	11.23							
q		8.0		3.56	11.56							
s		1.9		3.55	11.45							
t		8.1		3.58	11.68							
u		8.5		3.63	12.13							
w		8.65 1 0 8.5 8.1		8.6 3.65	12.30							
w'		8.95 0 L 9.0		8.9 3.73	12.68							
x		9.45 1 0 9.5		9.4 3.88	13.33							
y		9.40 0 0 9.4		9.4 3.88	13.28							
z		9.60 L 1 9.5		9.1 3.93	12.53							
L		L		L .								
Var.		9.2										

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Monday, November 6, 1916.

Scale M B Series 63

B 45738 C12

	sc.1			P.C. sc.2
1			.	7.8 – 1.20
2			.	8.2 – 121
3	Ø.		.	8.4 – 1.12
4	Ø		.	9.1 – 1.54
5	3.8 3.6		404	9.1 – 1.26
6	4.7 4.5		352	9.6 – 1.38
8	th.	th.	.	9.4 – 0.80
9	5.3 5.1	5.4	535 1 0 366	?. .
11	5.4 5.2	5.6	550 1 1 381	
12	6.0 5.8	5.9	595 0 1 366	
14	6.4 6.2	6.3	635 0 1 356	
16	6.9 6.7	6.9	690 0 0 348	
17		7.2	345	
18		7.7	360	
20		8.3	360	
21		8.6	363	
23		9.2	381	
24		9.6	384	
26		9.9	396	
27		?.	.	
29				

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Monday November 6, 1916.

Scale m-

B Series 63.

B 45738 C 12.

	g sc 1	g sc 2		h sc 1	h sc 2	Diff
	5.5 5.3			5.6 5.4		
1		5.55	⊥ 0			1.05
	6.1 5.9			6.3 6.1		
2		6.20	⊥ 1			0.79
3	tk.			6.4 6.2		0.88
4	tk.			6.9 6.7		0.66
5		7.2	7.30 ⊥ 1		7.4	0.44
6		tk.			7.6	0.62
8		tk.			tk.	.
9		tk.			8.4	0.61
11		tk.			8.9	0.41
12		9.4	9.35 0 ⊥		9.3	0.26
14		9.9	9.85 1 0		9.8	0.06
16		t			t.	.

1.20

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Tuesday November 7, 1916.

Seattle.

11:45

B 45738 C12.

13 Series 63.

P.C.

	rc.1	rc.2		rc.2
1	8.	.		7.9 – 1.30
2		.		8.21 – 1.21
3		.		8.5 – 1.22
4	3.8 9.6		376	9.0 – 1.44
5	4.3 4.1		354	9.1 – 1.26
6	4.8 4.6		342	9.6 – 1.38
8	tfr.	tfr.	.	9.4 9.5 – 085
9	5.4 5.2	5.40 00 5.4	361	
11	5.6 5.4	5.65 01 5.7	366	
12	5.9 5.7	6.00 11 6.1	361	
14	6.4 6.2	6.45 6.5	346	
16	6.7 6.5	6.80 11 6.9	358	
17		7.1	355	
17b		7.5	358	
18		7.7	360	
20		8.3	360	
21		8.4 9.20 00	383	
23		9.2 9.21	381	
24		9.6 9.60 00 9.6	384	
26		9.7 9.70 00 9.7	396	
27		10.1 10.10 00 10.1	391	
29		tfr.		

Election Day: Wilson – Hughes.

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Tuesday November 7, 1916.

Scale M. B Series 63.

B 4571 38 C 12- Diffr. Im.

	g		h	
	rec.	rec	rec.	
1	5.9 5.1 6.1	5.90 00	5.9 5.7	0.70
2	5.9		th.	0.89
3	th.		6.5 6.3 7.0	0.78
4	th-		6.8	0.56
5	7.2	7.15 0 1	7.1	0.69
6	th.		7.7	0.52
8	th.		th-	,
9	th.		8.5	0.51
11	th.		8.8	0.51
12	9.3	9.35 1 0	9.4	0.26
14	9.8	9.75 0 1	9.7	0.16
16	10.1		th.	0.28
17				
18				

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Salem. B Series 63. Alt Corr +.01

B 45739 187 K 23 47 -45°

	pc.1	pc.2	pc.?			Diffd mv. q	h		Pc. pc.?
1	5.56 5.4 5.55	5.9	5.78 2-11	3.58	9.36	9.40 11 9.5	9.3	0.38	9.78 ns.
2	6.4 6.25	6.5	6.45 01	3.55	10.00	9.65 01 9.6	9.7	0.26	9.91
3	6.9 6.7	6.9	6.90 00	3.54	10.44	00	∫.	024	10.24
4		7.4		3.54	10.94	ns.	ns.	.	
5		7.8		3.57	11.37				
6		8.1		3.59	11.69				
7		8.0		3.59	11.59				
8		8.2		3.59	11.79				
9		8.3		3.60	11.90				
10		8.5		3.62	12.12				
11		9.0 9.00 00	9.0	3.69	12.69				
12		9.5 9.45 00	9.4	3.79	13.24				
13		9.5 9.50 10	9.6	3.80	13.35				
14		9.7 9.90 00	9.9	3.88	13.78				
15		∫.	∫.	.	.				

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Tuesday November 7, 1916.

Copied B 34: 32

Scale M. B Series 63. Alt Corr +.05

B 45 | 40 140 K - 0 02 - 39½°

	sc.1	sc.2			Diff. Im. q h			D.C. sc.2		
1	B.		.		5.7 sc.1 5.5 tk	0.79	649	1:1	.	.
2	B		.		7.0 6.8 6.9 6.7 6.95 0 1	0.54	7.49	8.8	−.128	7.52
3	3.8 3.6	B.	3.69	7.49	7.4 sc.2 7.4 7.4 0 0	0.49	7.89	8.8	−.128	7.52
4	5.7	5.7 5.8 0 1	3.58	9.38	9.1 9.1 9.0 0 0	0.31	9.41	n.s.	.	
5	6.7 6.5	6.7 6.7 0 0	3.54	10.24	10.0 10.0 0 0	0.24	10.24			
6	7.1 6.9	6.9 7.0 0 1	3.54	10.54	↓ ↓	.				
7		7.6	3.55	11.15						
8		8.6	3.55	11.15						
9		7.1	3.56	11.26						
10		8.2	3.60	11.80						
11		8.5 8.4 8.45 1 0	3.61	12.06						
12		8.6 8.5 8.55 0 1	3.62	12.17						
13		8.7 8.1 8.70 0 0	3.64	12.34						
14		8.9 9.0 8.95 1 0	3.69	12.64						
15		9.4 9.4 9.40 0 0	3.78	13.18						

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Tuesday November 7, 1916.

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Scale M. B Series 63- Alt Corr +06

B 45 #41 Carte 0 -9.5

	Ac.1	Ac.2	Cu.		Diff. Inn. q	h			P.C. Ac.2
	5.7	5.70 00			960 1!				
1	5.5	5.7	3.59	9.29	9.6	9.4	0.28	9.78	n.s.
	6.3	6.20 1!			980 1!				
2	6.1	6.1	3.56	9.76	9.9	9.7	0.25	10.05	
	5.7	5.60 1!							
3	5.5	5.5	3.59	9.19	th.	9.7	026	9.96	
	6.7	6.55 12							
4	6.5	6.4	3.55	10.10	n.s.	n.s.	,	,	
	6.4	6.30 1!							
5	6.2	6.2	3.56	9.86					
	7.1	7.10 00							
6	6.9	7.1	3.54	10.64					
7		7.6	3.55	11.15					
8		7.5	3.55	11.05					
9		7.6	3.55	11.15					
10		7.9	3.58	11.48					
11		8.0	3.59	11.59					
12		8.21	3.60	11.80					
13		8.6	3.63	12.23					
14		8.9	3.68	12.58					
15		th.	,	,					
16		9.4	3.78	13.18					
17		9.8	3.86	13.66					
18		n.s.	,	,					

All images very poor. Difficult to compare with plate image.

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Tuesday November 7, 1916.

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Scale m. B Series 63. Alt Corr +06

B 45742 Carte 0^h −73.5°

	sc.1	sc.2			Diff. Im. q	h sc.2			P.C. sc.2		
1			,	,	tf.	56	0.80	6.40	1.4	,	,
2	B.		,	,	tf.	6.1	0.70	6.80	1.8	−1.21	6.59
3	4.3 4.1		3.65	7.95	tf.	7.4	0.49	7.89	9.2	−1.28	7.92
4	4.8 4.6		3.62	8.42	tf.	8.1?	0.40	8.50	10.0	−1.26	8.74
5	6.1 5.9	6.1 6.10 00	3.56	9.66	tf.	9.2	0.30	9.50	n.s.	,	,
6	6.1 5.9	6.1 6.10 00	3.56	9.66	9.1	9.10 00 9.1	0.31	9.41			
7	6.6 6.4	6.1 6.65 01	3.55	10.21	9.8	9.45 01 9.7	0.26	10.01			
8		1.2	3.54	10.74	?	?	,				
9		1.8	3.57	11.37							
10		1.9	3.57	11.47							
11		8.1	3.59	11.69							
12		8.1	3.59	11.69							
13		8.9 8.85 10 8.8	3.66	12.51							
14		8.8 8.85 01 8.9	3.66	12.51							
15		9.0 9.00 00 9.0	3.70	12.70							
16		9.2 9.25 01 9.3	3.74	12.99							
17		9.4 9.50 11 9.6	3.80	13.30							
18		9.8 9.80 00 9.8	3.87	13.67							
19	~~9.0~~	9.1 9.90 00 9.9	3.88	13.78							

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Tuesday November 7, 1916.

Salem-

B series 63-

B45744 C1- 1+15°

	pc.1			P.C. pc.2
1				8.6 — 1.42
2				8.6 — 1.21
3				8.1 — 1.20
4	dif. 4.7			9.5 — 1.54
5	4.5		3.63	10.0 — 1.67
9	5.6 5.4	5.5	5.55 01 3.73	
11	6.0 5.8	6.1	6.05 01 3.64	
12	6.3 6.1	6.3	6.30 00 3.72	
13 a	6.9 6.7	6.9	6.90 00 3.54	
14		7.0	3.62	
15		7.6	3.44	
16		7.8	3.40	
		8.10 00		
17		8.1 8.1	3.40	
18		8.4 w.s. 8.4	3.54	
18 a		8.4 8.45 01 8.5		
19		8.6 8.60 1 8.1	3.61	
		9.10 00		
20		9.1 9.1	3.52	
		9.35 02		
21		9.4 9.3	3.54	
		9.85 10		
24		9.9 9.8	3.73	
25		10.0	3.76	
26		½.		
27				
28				

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Tuesday November 7, 1916.

Scale M. B Series 63.

B 4571 44 C1 - Diff. Inm.

	g sc.1	g sc.2		h sc.1	h sc.2	
	6.7			6.8		
1	6.5	6.75	± 0	6.6		0.43
	6.9			6.8		
2	6.7	6.85	± 0	6.6		0.54
	6.8			7.1		
3	6.6	6.95	± 1	6.9		0.55
4	t/r.			t/r		.
5		t/r.			8.1	0.23
9		9.1	9.00	± 1	8.9	0.28
11		9.6	9.6000		9.6	0.09
12		9.8	9.7501	±	9.7	0.27
14		f			f.	.
15						
16						
17						

1 12

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Sheets H8
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Scale M. B Series 182. Alt Corr -02

11-01 B 47041 Carte 17 -51.5°

	sc.1	sc.2	Cw.		Diffr. Im. q h	Cw.		G.C. sc.2	Cw.	
	3.9				7.80 00					
1	3.1		.	.	7.8 7.8	-0.17	7.63	9.2	-1.63	7.57
	4.2				8.15 01					
2	4.0		.	.	8.2 8.1	-0.26	7.89	9.5	-1.60	7.90
	5.0				8.60 00					
3	4.8	5.35?	5.16 2 10	3.65	8.81 8.6 8.6	-0.35	8.25	10.0	-1.54	8.46
	5.1				8.65 01					
4	4.9	5.3	5.20 1 1	3.64	8.84 8.6 8.1	-0.36	8.29	10.0	-1.54	8.46
	5.4				8.90 00					
5	5.2	5.6	5.50 1 1	3.54	9.04 8.9 8.9	-0.40	8.50			
	6.7				10.00 00					
6	6.5	6.6	6.65 1 0	3.15	9.80 10.0 10.0	-0.58	9.42			
7		7.5		2.91	10.41 n.s.	n.s.	.	.		
8		7.4		2.93	10.33					
9		7.7		2.88	10.58					
10		8.0		2.84	10.84					
11		8.2		2.82	11.02					
		8.70 00								
12		8.1 8.1		2.80	11.50					
		9.30 1 1								
13		9.2 9.4		2.88	12.18					
		9.70 00								
streaked. 14		9.1 9.1		2.94	12.64					
		10.00 00								
15		10.0 10.0		2.99	12.99					

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Friday November 10, 1916.

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Scale M. B Series 182- Alt Corr + as

B 47042 Carte 17h - 31.5°

		sc.1	sc.2	sc.?			Diff. Inv. q	h			O.C. sc.2		
1	B.						6.2	6.3			8.4		
2	B.						tf.	tf.			9.0	-1.64	7.36
3	5.0 4.8	5.1	5.05	01	3.71	8.76	8.1	tf.	-0.25	7.85	10.0	-1.54	8.46
4	5.4 5.2	5.5	5.45	01	3.56	9.01	8.65 10 8.7	8.6	-0.36	8.29	7.	,	,
5	6.1 5.9	6.1	6.10	00	3.32	9.42	9.3	9.25 10 9.2	-0.48	8.77			
6	6.8 6.6	6.8	6.80	00	3.10	9.90	10.00 00 10.0	10.0	-0.58	9.42			
7		9.2			2.98	10.18	ns	ns.	,	,			
8		9.4			2.94	10.34							
9		9.7			2.88	10.58							
10		8.0			2.84	10.84							
11		8.4			2.81	11.21							
12		8.65 10 8.7	8.6		2.80	11.45							
13		9.10 00 9.1	9.1		2.85	11.95							
14		9.45 10 9.5	9.4		2.90	12.35							
15		~~10.0~~ 10.00 00	10.0		2.99	12.99	Ry. in favor of stars meas. by Ld on two plates						
16		10.1	10.1		3.00	13.10	Ry.						

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Scale m -

B Series 182 -

Alt Corr +07

B 47043 Carte 17h - 16.5°

	sc.1	sc.2	sc.2	Cu.		g sc.2	g h sc.2			B.C. sc.2	
1	B. 5.8	5.75 01				7.60 00	7.6 7.6	- 0.13	7.47	9.6	- 1.60 8.00
2	5.6 6.2	5.7 6.25 01	8	344	9.19	9.20 00	9.2 9.2	- 0.46	8.74	n.s.	.
3	6.0	6.3		328	9.53	9.50 11	9.4 9.6	- 0.50	9.00		
4	6.2 6.4	6.4 6.40 00		322	9.62	9.40 00	9.7 9.7	- 0.54	9.16		
5	6.2 6.4	6.6 6.50 11		320	9.70	10.0	9.7	- 0.57	9.43		
6		7.4		293	10.33	n.s.	n.s.	,	.		
7		7.5		291	10.41						
8		7.7		288	10.58						
9		7.9		286	10.76						
10		8.1		283	10.93						
11		8.6		280	11.40						
12		8.6 8.60 00		280	11.40						
13		8.6 8.8		280	11.40						
14		8.8 9.15 10		281	11.61						
15		9.1 9.2		286	12.01						
16		9.1 9.1		294	12.64						
17		10.0 10.00 00		299	1299						

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Scale m - .

B Series 182 -

Alt Corr + 05

B 47044 Carte 17 - 2.5°

	sc 1	sc 2	sc 3	Cu.		Diffr. hm. g	h		Oc. sc 2	
	48	48000				8335 L0				
1	46	4.8		3.77	8.57	83	8.4	- 0.29	8.06	9.8 - 1.56 8.24
	6.2	6.20 00				9800				
2	6.0	6.21		3.29	9.49	9.8	9.8	- 0.55	9.25	ns .
	6.4	6400				9750 L				
3	6.2	6.4		3.22	9.62	9.8	9.1	- 0.54	9.21	
4		7.3		2.95	10.25	ns	ns.	.	.	
5		7.3		2.95	10.25					
6		8.0		2.84	10.84					
7		8.1		2.84	10.94					
8		8.1		2.84	10.94					
9		8.1		2.81	11.51					
		8800 0								
10		8.8	8.8	2.82	11.62					
		9.15 L0								
11		9.1	9.21	2.86	12.01					
		9.50 L								
12		9.4	9.6	2.91	12.41					
		10.00 00								
13		10.0	10.0	2.99	12.99					
		10.00 00								
14		10.0	10.0	2.99	12.99					
15		9.	7.	.	.					
16		~~10.0~~ 7		.	.					

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Friday November 10, 1916.

Sheet 48

Scale m-

B series 182-

B 47045 C9-

P.C.

	pc.1	pc.2		pc.2
3	B.			8.1
3a	B.			9.1 — 1.66
4	B.			9.3 — 1.48
5	B.			9.1 — 1.64
6	4.9 4.1	tf.	357	10.0 — 1.53
6a	4.9 4.1?		374	n.s.
7	5.3 5.1	tf.	374	
8	6.3 6.1	6.1 6.20 1.1	333	
8a	6.3 6.1?	6.2 6.25 1.0	343	
9		7.2	289	
12		7.5	307	
14		7.9 poor	289	
15		8.4	273	
16		8.8 9.00 00	280	
17		9.0 9.0 9.45 1.2	283	
18		9.3 9.6 9.85 .1	296	
20		9.8 9.9 10.05 1.0	291	
21		10.1 10.0	301	
22		1. 1.		
23				
24				
25				
27				

All images on this plate are very poor.
Other plates of series much better than this.

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Friday November 10, 1916.

Seaborn -

B Series 182 -

B 47045 cg - Diff'l Im.

	g sc.1	g sc.2	h sc.1	h sc.2	
3		7.1	7.1000	7.1	-.006
4		8.1	8.1000	8.1	-.028
5		8.4	8.4000	8.4	-.034
6		8.5	8.5510	8.6?	-.008
7		9.7	9.7510	9.8	-.071
8		10.0	10.0000	10.0	-.047
9		f		f	.
12					
14					
6a		9.1	9.1000	9.1	-.046
3a		fh		fh	.

All images very poor. Much worse than remaining plates of series.

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Friday November 10, 1916.

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Scale M- B Series 187. Alt Corr. -14

B 47046 Carte 18h -64.5°

	pc 1	pc 2				Diff. Inv. pc 2				C.C. pc 2		
1	B.		.			6.15 1.0 6.1	6.2	.		8.4		
2	B.	B.	.			7.45 1.0 7.5	7.4	-0.09	7.36	9.2	-.163	7.57
3	4.3 4.1	4.5	440 1.1 .		.	7.75 1.6 7.9	7.8	-0.16	7.59	9.5	-.162	7.88
4	5.4 5.2	5.5	545 0.1	3.55	9.00	8.45 1.0 8.5	8.4	-0.32	8.13		.	.
5	6.0 5.8	5.8	590 1.1	3.40	9.30	9.35 1.0 9.3	9.4	-0.48	8.87			
6	6.4 6.2	6.5	645 0.1	3.21	9.66	10.0	9.4	-0.58	9.42			
7		7.8 2		2.98	10.18	ms.	ms.	,	,			
8		7.3		2.95	10.25							
9		7.5		2.91	10.41							
10		7.3		2.95	10.25							
11		7.5		2.91	10.41							
12		8.1		2.84	10.94							
13		8.1		2.84	10.94							
14		8.70 0.0 8.1	8.1	2.80	11.50							
15		9.30 0.0 9.3	9.3	2.88	12.28							
16		9.40 0.0 9.4	9.4	2.90	12.30							
17		9.60 0.0 9.6	9.6	2.93	12.53							
18		9.90 0.0 9.9	9.9	2.97	12.87							

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Friday November 10, 1916.

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Scale m.

B Series 182.

Alt Con + 03

B 47 | 047 Carte 18^h -40.5

	Rc.1	Rc.2	pc.2			Diff Inv. q	Diff Inv. h		P.C. pc.2		
1	4.3	B.				6.6	6.5		8.6	-1.64	6.96
2	4.1	B				7.8	7.7	-0.16	9.2	-1.63	7.57
3	4.9	5.4	5.20	1	3.64	8.4	8.4	-0.30	10.6	-1.54	8.46
4	5.4	5.8	5.70	1	3.46	8.9	8.8	-0.39			
5	5.9	6.3	6.20	1	3.29	9.3	9.4	-0.48			
6	6.3	6.7	6.60	1	3.15	th.	9.8	-0.55			
7	6.9	7.1	7.000		3.01	‡	‡	.			
8		7.5			2.91						
9		7.9			2.85						
10		8.1			2.84						
11		8.6	8.5		2.81						
12		~~8.6~~ 9.2	~~8.6~~ 9.2		2.80						
13		~~8.6~~ 9.4	~~8.6~~ 9.4	1	2.87						
14		9.5	9.3	1	2.90						
15		9.9	9.7		2.96						
16		‡	‡		.						

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Scale m.

B Series 187-

Alt Corr +06

B 47048 Carte 18h -73.5°

	AC.1	AC.2				Diffs. Dm. 9h AC.2	AC.1			R.C. AC.2	Cor.	
1	Q.		.	.	740 00	7.4	7.4	−0.08	7.32	9.1	−1.64	7.46
2	4.3 4.1		.	.		7.9	7.9	−0.19	7.71	9.5	−1.61	7.89
3	5.0 4.8	5.0	5.00	00 3.70	8.70	7.9	7.9	.	.	9.9	−1.56	8.34
4	5.0 5.8	5.3	5.15	2 1.365	8.80	825 10 8.3	8.2	−0.28	7.97	9.8	−1.57	8.23
5	5.5 5.3	5.6	5.55	1 0 3.51	9.06	900 1 L 9.1	8.9	−0.41	8.59			
6	5.5 5.8	5.1	5.60	1 1.350	9.10	9.150 L 9.2	9.1	−0.46	8.69			
7	6.0 5.8	6.1	6.05	0 1 3.33	9.38	9.550 L 9.6	9.5	−0.51	9.04			
8	6.1 5.9	6.1	6.10	0 0 3.32	9.42	9.501 L 9.7	9.6	−0.50	9.00			
9	6.8 6.6	6.9	6.85	0 1.307	9.92	9.7	9.7	.	.			
10		7.1		301	10.11							
11		7.7		288	10.58							
12		7.8		2.87	10.67							
13		7.9		2.86	10.76							
14		8.0		2.84	10.84							
15		8.1		2.84	1094							
16		8.35 0 1 8.4 8.3		2.81	11.16							
17		9.1 0 0 9.1 9.1		2.85	11.95							
18		9.30 0 0 9.3 9.3		2.88	12.18							
19		9.50 1 L 9.6 9.7		2.91	12.41							
20		9.70 0 0 9.7 9.7		2.94	12.64							

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Scale M.

B Series 182.

Alt Corr + 05

B 47.049 Carte

$18^h - 95°$

	sc1	sc2		Cw.		g sc2	h sc2	Cw.		P.C. sc2	
						7.85 01					
1	B.			.		7.8	7.9	− 0.18	7.67	9.5 − 161	7.99
	4.5					8.75 L0					
2	4.6			3.76	8.56	8.7	8.8	− 0.38	8.37	9.8 − 1.57	8.23
	4.9					8.75 L0					
3	4.7			3.74	8.64	8.7	8.8	− 0.38	8.37	7 .	.
	5.1					9.15 L0					
4	4.9	5.3	520 L1	3.64	8.84	9.1	9.2	− 0.46	8.69		
	6.6					7	7.	.	.		
5	6.4	6.6	660 00	3.16	9.76						
	6.8										
6	6.6	7.1	695 L1	3.04	9.99						
	6.7										
7	6.5	6.9	680 L1	3.09	9.89						
8		8.0		2.84	10.84						
9		8.3		2.82	11.12						
10		8.6		2.80	11.40						
		9.05	10								
11		9.1	9.0	2.84	11.89						
		8.85	01								
12		8.8	8.9	2.82	11.67						
13		9.4		2.89	12.29						
		9.40	00								
14		9.4	9.4	2.89	12.29						
		9.70	00								
15		9.7	9.1	2.94	12.64						
			9.75 L0								
16		9.8	9.8	2.95	12.70						
		9.75 L0									
17		9.1	9.8	2.95	12.70						
18		10.0	4.	0.99	12.99						

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Salem.

B series 182.

Alt Corr +15

B 47051 1 KS 18h 56.

	pc.1	pc 2			Diff'rm g	h		P.C. pc 2		
1	4.6 4.4	3.	3.384	8.44	th. 7.9 9.4000		−0.19	7.71	9.5	−1.61 7.89
2	6.1 5.9	6.1	6.10 00	3.332	9.42	9.4	9.4	−0.49	8.91	us.
3		7.6		2.89	10.49	7	7.	.	.	
4		7.7		2.88	10.58					
5		8.21		2.82	11.02					
6		8.4	8.75 LO	2.81	11.21					
7		8.7	8.8 8.90 00	2.80	11.50					
8		8.9	8.9 9.40 00	2.82	11.72					
9		9.4	9.4 10.00 00	2.89	12.29					
10		10.0	10.0	2.99	12.99					
11										
12										

1:16

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Wednesday
~~Monday~~ November 13, 1916.

Scale m. B series 66

B 45771 C1. 1 + 15°.

	sc.1	sc.2		Diff. Im. sc.2	sc.2	O.C. sc.2
1	3.3		3.68			8.7 − 152
2	B.		.	7.2	7.2 −.002	8.8 − 141
3	B.		.		7.2 .019	8.8 − 130
4	B.		.			9.6 − 164
5	4.9		3.23		8.3 .03	9.8 − 147
7a						m.s. .
9	5.6	5.9	3.43	9.3	9.3 −.002	
11	6.1	6.3	3.39	9.1	9.6 .004	
12	6.4	6.8	3.32	10.0	9.9 .007	
13a	6.8	7.1	3.39			
14		7.5	3.12			
15		7.9	3.14			
16		8.0	3.20			
17		8.2	3.30			
18		8.6	3.34			
18a		8.6				
19		8.9	3.31			
20		9.2	3.42			
21		9.6	3.34			
24		10.0	3.84			
25		10.1	3.66			
26	much fainter than 10th mag.					
27						
28						
29						
30						

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Wednesday
Monday, November, 15, 1916

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Scalem.

B Series 66.

Alt Corr +06

B4577 2 W Sculpt. 1 on - 30.6

	sc.1	sc.2				Diff. Im. sc.2 − sc.1		P.C. sc.2		
A	B.					6.3	6.7	0.61	6.86	8.3 − 1.42	6.88
B	4.1	5.1	500	1	3.62	8.62	tf. tf.	.	.	9.9 − 1.48	8.42
C	7.4	4.9	4.75	2	3.65	8.40	8.4 8.4	0.82	8.52	10.0 − 1.46	8.54
c	5.9	6.1	6.10	0	3.51	9.61	9.7 9.76	− 0.05	9.60	m.s. .	.
d	6.1	6.3	6.30	0	3.50	9.80	9.6 9.5	− 0.04	9.51		
a	6.4	6.5	6.55	0	3.48	10.03	9.8 9.8	− 0.05	9.75		
b	6.5	6.6	6.65	10	3.47	10.12	tf. 9.8	− 0.05	9.75		
b'	6.4	6.4	6.50	1	3.49	9.99	10.0 10.0	− 0.06	9.94		
e		7.4			3.42	10.82	tf. tf.	.	.		
f		7.86			3.41	11.01					
f'		8.0			3.40	11.40					
g		8.4			3.41	11.81					
h		8.5			3.42	11.92					
k		8.6			3.42	12.02					
l		8.9	8.75	1	3.43	12.18					
m		9.4	9.2	1	3.46	12.76					
n		9.6	9.6	0	3.49	13.09					
o		9.8	9.8	0	3.51	13.31					
fr		9.8	9.9	1	3.52	13.37					
Var.		7.8			3.40	11.20					

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Wednesday November 15, 1916.

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Scale m. B Series 66 Alt Coni + 06

B 45773. R Sculpt. 1° 22 -33.1.

		pc 1	pc 2	pc 3		Diff. Inn				P.C. pc. 2		
	a	B.			.	6.4	6.4	0.54	6.94	8.4	-.143	6.97
	b	B			.	7.2	7.2	0.34	7.54	9.1	-.149	7.61
trailed	c	4.6	4.9	4.850	3.364	8.49	8.1	7.8	0.19	8.14	9.8	-.148	8.32
	d	5.9	6.2	6.150	3.350	9.65+	8.8		0.05	8.85	ns.	.	.
	e	6.3	6.4	6.450	3.349	9.94	9.5	9.4	-0.03	9.42			
	f	6.9	6.9	7.00	3.344	10.44	10.0	9.9	-0.06	9.89			
	g		7.5		3.342	10.92	7	7	.	.			
	h		7.1		3.341	11.11							
	k		8.1		3.340	11.50							
	l		8.4		3.341	11.81							
	m		8.7	8.7	3.342	12.12							
	n		9.2	9.1	3.345	12.60							
	o		9.8	9.8	3.351	13.31							
	p		9.9	9.9	3.350	13.42							
	q		10.1	10.1	3.355	13.65							
Var R Sculpt.			8.1		3.340	11.50							
Var. R S Sculpt.			ns.		.	.							

See notes on plate cover concerning the sequences for these two variables.

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Salem. B Series 66. Alt Corr +07

B45774. 117K.

	sec.								
1	6.3 6.1	6.3	6.30 00	3.350	9.80	9.40 00 9.4 9.4	− 0.02	9.38	n.s.
2	6.8 6.6	6.9	6.85 01	3.345	10.30	9.95 01 10.0 9.9	− 0.06	9.89	
3	7.2 7.0	7.1	7.15 01	3.344	10.59	n.s. n.s.	.	.	
4	7.2 7.0	7.1	7.15 01	3.344	10.59				
5		7.6		3.342	11.02				
6		8.4		3.341	11.81				
7		8.7		3.343	12.13				
8		9.1		3.345	12.55				
9		9.3		3.347	12.77				
10		9.35 10 9.3 9.4		3.348	12.83				
11		9.60 11 9.7 9.5		3.349	13.09				
12		9.60 11 9.7 9.5		3.349	13.09				
13		9.80 00 9.8 9.8		3.351	13.31				
14		10.00 00 10.0 10.0		3.354	13.54				
15		7. 7.		.	.				

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Scale M B Series 66. Alt Con +02

B 45.775 165 K 1 35-45.0

	sc.1	sc.2	sc.3	Cu.		sc.2 g	sc.2 h			P.C. sc.2	
	4.7					8.15 1 0					
1	4.5			3.66	8.36	8.1	8.2	0.16	8.31	9.9 – 148	8.42
	4.9					8.55 0 1					
2	4.7	(3)		3.64	8.54	8.6	8.5	0.01	8.56	10.0 – 146	8.54
	5.9					9.35 0 1					
3	5.1	5.9	5.90 00	3.52	9.42	9.4	9.3	–0.01	9.34	ns.	
	6.3					9.50 00					
4	6.1	6.2	6.25 1 0	3.50	9.75	9.5	9.5	–0.03	9.47		
	6.6	6.9									
5	6.4	6.8	6.75 2 1	3.46	10.21	‡	10.0	–0.06	9.94		
6		7.0		3.44	10.44	ns	ns.				
7		7.6		3.41	11.01						
8		7.8	—	3.41	11.21						
9		7.8		3.41	11.21						
10		8.1		3.40	11.50						
		8.35 1 0									
11		8.3	8.4	3.41	11.76						
		8.75 1 0									
12		8.7	8.8	3.43	12.18						
		9.05 0 1									
13		9.0	9.1	3.44	12.49						
		9.15 0 1									
14		9.2	9.1	3.46	12.61						
		9.50 0 1									
15		9.6	9.4	3.49	12.99						
		9.55 0 1									
16		9.6	9.5	3.49	13.04						
		10.00 00									
17		10.0	10.0	3.54	13.54						

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Wednesday November 15, 1916.

Sheet 48

Salem

B Series 66

B 4576 C 2. 3 +15°

	pec	sec			sec	sec		P.C.
					g	h		sec
1					tf. 6.4		0.54	8.4 − 1.46
2	B.		,		tf. 6.5		0.74	8.8 − 1.56
3	B.		,		tf. 7.1		0.54	9.1 − 1.46
4	4.3 4.1		3.90		tf. 7.9		0.30	9.8 − 1.60
6	4.5 4.3	4.1	460 11	4.07	840 00 8.4	8.4	0.27	10.0 − 1.33
7	5.0 4.8	4.9	495 01	4.11	865 01 8.6	8.7	0.41	m.s. ,
10	5.3 5.1	5.3	530 00	4.05	940 00 9.4	9.4	− 0.05	
11	6.1 5.9	6.1	610 00	3.64	990 00 9.9	9.9	− 0.16	
12	6.3 6.1	6.2	625 10	3.71	∫	∫	,	
14		7.1		3.69	m.s.	m.s.	,	
16		7.5	795 10	3.68				
17		7.9	825 01	3.48				
19		8.2	880 00	3.58				
21		8.8	900 11	3.54				
22		8.9	930 00	3.50				
23		8.93	960 00	3.49				
25		9.6		3.50				
9a	6.0 5.8	600 00		6.0				
9b	6.4 6.2	635 01		6.3				
9c	6.3 6.1	620 11		5.1	Assumed to be 6.1?			
26		10.00 00		3.67				
27		m.s.	m.s.	,				

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Calm. B Series 66.

10 — 00 B 45776 C 2 3 00 +15.0°

	pc.1				g pc.2	h nv.2		pc.2
1			.		th.	6.4	0.54	8.5 − 1.56
2			.		th.	6.1	0.54	8.1 − 1.46
3	B.		.		th.	7.2	0.44	8.9 − 1.26
4	4.1 (43)	B.		390	th.	7.8	0.40	9.1 − 1.50
6	4.7 (46)	4.8	470 ± 1	397	8.4 (845 01)	8.5	0.22	10.1 − 1.43
7	4.1 (49)	5.0	495 ± 0	411	8.1 (865 10)	8.6	0.41	nv.2 .
10	5.2 (54)	5.5	545 01	390	9.2 (915 01)	9.1	0.20	
11	5.1 (59)	6.1	600 ± 1	374	9.8 (985 01)	9.9	−.011	
12	6.2 (64)	6.3	635 01	361	100.	∓.	−.004	
14	6.9 (7.1)	7.3	720 ± 1	359				
16		7.5		368				
17		7.7		373				
19		8.3 (825 10)	8.2	358				
21		8.9 (890 00)	8.9	344				
22		9.1 (905 10)	9.0	345				
23		9.2 (930 11)	9.4	349				
25		9.6 (960 00)	9.6	350				
9a	5.9 (6.1)				9.9 (985 10)	9.8		
9b	6.1 (63)							
9c	4.1 (49)				8.5 (845 10)	8.4		
26		10.1 (10.10 00)	10.1	357				
27		∓.	ns?					

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Scale M

B Series 66. Alt Corr +08

B ~~Series~~ 45777 118 K 7 16.

	sc.1	sc.2		Cu.	Magn	Diffr. Inn. q	h.		sc. sc.2		
1	3.5 Q.			.		tf. 7.2	0.39	7.59	9.0	−1.54	7.46
2	3.3			4.29	7.79	tf. 7.1	0.41	7.51	8.8	−1.50	7.30
3	4.3 4.1			4.09	8.39	tf. 7.1	0.28	7.98	9.5	−1.59	7.91
4	5.2 5.0	5.4	5.30	0 1	3.86	9.16	8.50 00 8.5 8.5	0.14	8.64	↓	. .
5	5.6 5.4	5.5	5.55	0 1	3.80	9.35	8.85 10 8.9 8.8	0.10	8.95		
6	6.6 6.4	6.6	6.60	0 0	3.55	10.15	↓ 10.0	−0.12	9.88		
7	7.0 6.8	6.9	6.95	0 1	3.50	10.45					
8	7.0 6.8	7.0	7.00	0 0	3.50	10.50					
9		7.6 7.95		0 1	3.44	11.04					
10		8.0 7.9 8.75		1 0	3.43	11.38					
11		8.1 8.8 9.15		0 1	3.42	12.17					
12		9.2 9.1 9.35		0 1	3.42	12.57					
13		9.4 9.3			3.43	12.78					
14		↓ ↓		.	.						
15											

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Salem. B Series 66. Alt Con - 17

B 45778 N 12- 23 - 15°

	pc.1	sc.2	Cw.	Magn	R.C.		
1	B.		.		9.21	-1.56	7.64
2	B.		.		9.1	-1.54	7.56
3	4.6 4.4		4.01	8.61	9.1	-1.60	8.10
4	4.9 4.1		3.95	8.85	9.9	-1.51	8.39
5	th.		.	.	10.0	-1.52	8.48
6	5.1 4.9	5.2	5.15 L0	3.89	9.04		
7	5.3 5.1	5.2	5.25 10	3.87	9.12		
8	5.4 5.2	5.5	5.45 01	3.81	9.26		
9	5.7 5.5	5.1	5.70 00	3.76	9.46		
10	5.9 5.8 7	5.9	5.90 00	3.70	9.60		
11	6.1 5.9	6.2	6.15 L0	3.62	9.77		
12	6.0 5.8	6.1	6.05 01	3.66	9.71		
13	6.1 5.9	6.2	6.15 L0	3.62	9.77		
14	6.0 &5.8	? 6.1					
15	6.5 6.3	6.5	6.50 00	3.58	10.08		
16	7.1 6.9	7.2	7.15 L0	3.49	10.64		
17		7.1		3.44	11.14		
18		7.8		3.44	11.24		
19		7.8		3.44	11.24		
20		7.8		3.44	11.24		
21		8.1		3.43	11.53		
22		8.4		3.42	11.82		
23		8.6		3.42	12.02		
24		8.8		3.42	12.22		
25		9.0		3.42	12.42		
26		9.2		3.43	12.63		
16a		7.5		3.45	10.95		

ft. stars cont.

27	9.2 9.2	9.20 00 9.75 L0	3.42	12.62	
28	9.7 9.8	9.70 00	3.48	13.23	
29	9.1 9.1	10.00 00	3.47	13.17	
30	10.0 10.0		3.50	13.50	
31	f. f.		.	.	

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Scale M

B series 66.

R 45778 D 12 Diffr Inn.

	g sc.1	g sc.2	h sc.1	h sc.2		
1	7.5	7.55 1.0	7.6		0.30	7.85
2	tf.		tf.		.	.
3	tf.		tf.		.	.
4	8.3	8.30 00	8.3		0.18	8.48
5	tf.	.	tf.		.	.
6	8.4	8.40 00	8.4		0.15	8.55
7	8.6	8.60 00	8.6		0.13	8.73
8	tf.		tf.		.	.
9	9.21	9.25 01	9.3		0.01	9.26
10	9.4	9.35 01	9.3		-0.06	9.34
11	9.3	9.35 1.0	9.4		-0.01	9.34
12	9.8	9.80 00	9.8		-0.08	9.72
13	10.0	9.95 01	9.9		-0.11	9.84
14	1		1		,	.
15						
16						
17						
18						
19						
20						
21						
22						

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Scale M B series 66 Alt Corr +02

B 4779 166 K Σ 37-44.8

	sc.1	sc.2			Diffr. Inn. q	Diffr. Inn. h			P.C. pc.2		
1	B 5.3				tfr.	7.3	0.36	7.66	9.2	− 1.56	7.64
2	5.1	5.3	5.30 00	3.86	9.16	9.1	tfr.	0.04	9.14	ws.	
3	5.8	5.8	5.80 00	3.72	9.52	9.55 01	9.5	−0.04	9.51		
4	6.2 6.0	6.1	6.15 01	3.63	9.78	9.90 00	9.9	−0.10	9.80		
5		7.5		3.45	10.95	↓	↓	.	.		
6		7.5		3.45	10.95						
7		7.7		3.44	11.14						
8		7.6		3.44	11.04						
9		8.1		3.43	11.53						
10		8.15 1.0 8.1	8.20	3.43	11.58						
11		8.20 00 8.2	8.20	3.42	11.62						
12		8.50 00 8.5		3.42	11.92						
13		8.85 1.0 8.9	8.8	3.42	12.27						
14		9.35 01 9.4	9.3	3.44	12.79						
15		9.95 01 10.0	9.9	3.50	13.45						

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Salem.

B Series 66 - Com .00

B 45780

Y Horolog. 2h 58 — 52.

	sc.1	sc.2		Cu.		g	h	Diff. Inn.		P.C. sc.2
	4.7									
a	4.5			3.99	8.69	tp.	8.4	0.16	8.56	100 — 162 8.38
	4.9									
b	4.1	5.0	4.95 1.0	3.94	8.89	tp.	8.4	0.16	8.56	ns. ,
	6.1									
b'	5.9	6.1	6.10 0 0	3.64	9.74	7	10.0	— 0.12	9.88	
	6.8									
c	6.6	6.8	6.80 0 0	3.52	10.32	ns	n.s.	,	,	
c'		7.4		3.46	10.86					
d		7.5		3.45	10.95					
d'		7.9		3.44	11.34					
e		8.3	8.70 0 0	3.42	11.72					
g		8.1	8.1 9.00 0 0	3.42	12.12					
f		9.0	9.0 9.70 0 0	3.42	12.42					
h		9.1	9.1 9.75 1.0	3.47	13.17					
l		9.1	9.8 10.05 0 1	3.48	13.23					
m		10.0	10.1	3.50	13.55					
Var		n.s.		.	.					

k n.s.

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Scale m. B Series 66 - Alt Cou - 07

B 45781 189 K 3 24-596

Diffr. Inn. P.C.

	sc 1	sc 2		Cu.	Magn	q	h.	Cu.		sc 2
	5.2									
1	5.0			3.87	9.07	+h.	8.1	0.11	8.81	n.s.
	5.4									
2	5.2	5.5	5.45 01	3.82	9.27	+h.	8.9	0.09	8.99	
	5.7						9.25 10			
3	5.5	5.6	5.65 10	3.78	9.43	9.3	9.2	0.01	9.26	
	6.3					≠				
4	6.1	6.5	6.40 L	3.58	9.98	~~n.s~~	10.0	− 0.12	9.88	
	7.0									
5	6.8	7.0	7.00 00	3.50	10.50	n.s	n.s.			
6		7.4		3.45	10.85					
7		7.5		3.45	10.95					
8		7.9		3.44	11.34					
9		8.0		3.43	11.43					
10		8.2	8.65 01	3.42	11.62					
11		8.6	8.1 9.00 00	3.42	12.07					
12		9.0	9.0 9.20 00	3.42	12.42					
13		9.2	9.2 9.60 11	3.43	12.63					
14		9.5	9.1 9.75 10	3.46	13.06					
15		9.7	9.8	3.48	13.23					

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Saturday November 18, 1916.

Scale m

B Series 66.

B 45782 C2.

	sc.1				sc.2
1				.	8.6 — 1.66
2				.	8.8 — 1.56
3				.	9.4 — 1.76
4	4.0 3.8			4.20	10.0 — 1.80
6	4.7 4.5	B.		3.97	7. ,
7	5.0 4.8	5.1	5.05 01	4.01	
10	5.5 5.3	5.4	5.45 10	3.90	
11	6.0 5.8	6.1	6.05 01	3.69	
12	6.5 6.3	6.4	6.45 10	3.51	
14		7.4		3.39	
16		7.9		3.28	
17		8.1		3.33	
9		8.5		3.33	
21		9.1		3.24	
22		9.2		3.30	
23		9.3		3.49	
25		9.7		3.40	
26		4		.	
27		m.s.		,	
9a	6.0 5.8	6.2			
9b	6.5 6.3	6.4			
9c	4.7 4.5	4.9			

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Saturday November 18, 1916. Sheet 49

Scale m. B Series 66.

B 45 787 Cr Diff. Inn.

	g sc 1	g sc 2	h sc 1	h sc 2	
1	tfr.		6.5 6.3 6.7		0.44
2	tfr.		6.5		0.54
3		7.3	7.35 L0	7.4	0.29
4		8.1	8.15 L0	8.21	0.05
6		8.6	8.60 00	8.6	0.07
7		tfr.	.	tfr.	.
10		9.5	9.45 10	9.4	−0.05
11		10.0	10.00 00	10.0	−0.26
12					
14					
16					
17					
19					
9a		10.0	10.00 00	10.0	
9b		7		7.	
9c		tfr.		8.6	

11:45

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Friday, November 24, 1916.

Scale m. 10.20

B 46783

B Series 158.

{Carte 149K. 9^h $-31.5°$}

Seq. for 149K.

	sc.1	sc.2			Cu.	Magn.			sc.2 sc.2				B.C. sc.2
	4.3								8.40 0.0		4	4	128 8.52
1	4.1	4.1	4.20	1	1	3.41	3.81	8.01	8.4	8.4	0.18	8.58	98 ~~1.61~~ 8.19
	5.6								9.35	4.0	1	4	
2	5.4	5.5	5.55	0	1	3.80	3.51	9.06	9.3	9.4	0.00	9.35	m.s. .
	6.0								9.90	1.1		10.00	
3	5.8	5.9	5.95	0	1	3.68	3.44	9.39	9.8	10.0	+0.10	9.80	
4		7.1				3.59	3.24	10.34	10.69	m.s.	m.s.	.	
5		8.0				3.43	3.20	11.20	11.43				
6		7.7				3.44	3.20	10.90	11.14				
7		8.1				3.43	3.28	11.21	11.53				
8		8.6				3.42	3.24	11.84	12.02				
9		8.6				3.42	3.24	11.84	12.02				
		8.60	0.0										
10		8.6	8.6			3.42	3.24	11.84	12.02				
		9.00	0.0										
11		9.0	9.0			3.42	3.26	12.26	12.42				
		9.55	0.1										
12		9.6	9.5			3.46	3.33	12.88	13.01				
		9.75	1.0										
13		9.7	9.8			3.48	3.37	13.12	13.23				
14		10.1	?	?		3.51	3.43	13.53	13.61				
15		?				.	.	.					

6 is brighter than 5 on orig. plate also.

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Friday, November 24, 1916.

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Scale m. B Series 158. Alt Con 00

B 46783 Carte. 9 – 315

Carte Seq.

	Seq. 1	Seq 2	Seq 2	Cu.		Diffr 1m g	Diffr 1m h	Diffr 1m Cu.		P.C. Seq 2	
1	B.			.		8.21	tfr.	0.15	8.35	9.4 – 1.30	8.10
2	47 4.5	B.		3.70	8.440	8.55 8.5	1.0 8.6	0.13	8.68	9.8 – 1.28	8.52
3	51 4.9	5.21	5.15 1.0	3.60	8.475	9.25 01 9.2	9.3	0.10	9.35	n.s. ,	,
4	57 5.1	5.1	5.80 1.1	3.46	9.26	9.70 00 9.1	9.1	0.10	9.80		
5	7.1 6.9	7.1	7.10 00	3.23	10.33	n.s.	n.s.	,	,		
6		7.8		3.20	11.00						
7		8.1		3.21	11.31						
8		8.6		3.24	11.84						
9		8.1 8.70 00		3.24	11.94						
10		8.1 9.25 01	8.1	3.24	11.94						
11		9.2 9.35 1.2	9.3	3.29	12.54						
12		9.5 9.65 01	9.21	3.31	12.66						
13		9.6 10.00 00	9.1	3.35	13.00						
14	Badly streaked.	10.0	10.0	3.40	13.40						
15		n.s.	n.s.	,	,						

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1916phae.proj.10780

Friday November 24. 1916. Sheet 49

Scale m-

B series 158.

B 4684 C 6.

	sc 1	sc 2		
1	B		.	
2	B		.	
3	6.1		3.61	
4	B.		.	
5	tf.		.	
6	4.0	B.	4.01	
9	4.1	4.1	4.80 1 1	3.79
10	4.1	5.1	5.00 1 1	3.90
10 a	5.2	5.5	5.45 0 1	3.61
12	5.6	5.1	5.75 0 1	3.59
13	6.1	6.2	6.25 1 0	3.44
14	6.6	6.8	6.80 0 0	3.26
16		7.4		3.12
17		7.5		3.28
19		7.1		3.23
21		8.2		3.06
22		8.4		3.14
23		8.1		3.13
24		8.95 0 1 9.0 8.9 9.10 0 0		3.21
25		9.1 9.1 9.45 0 1		3.23
26		9.4 9.5 9.55 1 0		3.23
27		9.5 9.6 10.00 0 0		3.57
28		10.0 10.0		3.28
30		4.		

Diff. In			sc.
	q	h	sc 2
6.9 sc 1	6.1	tf. 0.46	8.1 -1.34
	tf.	tf. sc 2 ,	8.1 -1.22
	tf.	7.5 0.01	8.9 -1.39
sc 2 7.45 1 0	7.5	7.4 0.11	8.9 -1.34
	7.6 8.10 0 0	tf. 0.17	9.0 -1.23
	8.1	8.1 0.11	9.5 -1.29
8.55 1 0	8.5	8.6 0.04	9.5 9 -1.31
8.80 0 0	8.8	8.8 0.10	9.5 tf. ,
	8.7 8.75 1 0	8.8 0.31	
9.25 0 1	9.4	9.3 -0.01	
9.75 0 1	9.8	9.7 -0.06	
10.00 0 0	10.0	10.0 0.06	

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Scale M-

B Series 158.

Alt Con + 07

B 46785 Carte 11 – 16.5

	sc.1	sc.2	Cu.		Diffr. Inv. g h		PC. sc.2	
1	5.3 5.1	5.5	540 1 1	3.54	8.94	8.1 7.9 (8.00 1 1)	0.18	8.18 ns.
2	6.0 5.8	5.9	595 0 1	3.44	9.39	9.1 nearly inf.	0.10	9.20 ns.
3	6.9 6.7	6.8	685 1 0	3.25	10.10	9.8 9.7 (9.76 0 1)	0.10	9.85
4		7.3		3.21	10.51	ns ns.	,	,
5		7.4		3.20	10.60			
6		7.7		3.20	10.90			
7		7.7		3.20	10.90			
8		8.1		3.21	11.31			
9		8.4		3.23	11.63			
10		8.5		3.24	11.74			
11		8.8		3.24	12.04			
12		8.8 8.8	(8.80 0 0)	3.24	12.04			
13		9.1 9.2	(9.15 1 0)	3.28	12.43			
14		9.6 9.3	(9.45 2 1)	3.32	12.77			
15		9.6 9.7	(9.68 1 0 1)	3.34	12.99			
16		10.0 10.0	(10.00 0 0)	3.40	13.40			
17		∓ 10.1		3.42	13.52			
18		∓		,	,			

Plate is very badly streaked

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Scale M

B series 158

Alt. Corr −10

B 46786 } 30 KS R S Cariin. 11 03−61.4. P.C.

leg. for RS Cariin.

30 KS

		Pc.1	sc.2		Cu.		sc.2			sc.2
		42						1.30		
b	= 1	4.0			3.81	8.01	8.9	−0.11	7.60	8.9
c	= 2	45 4.3			3.74	8.24	9.2	− 1.30 −0.10	7.90	9.2
	3	53 5.1	5.0	5.15 1 2	3.59	8.74	bo nearly sufs.		.	
d	= 4	54 5.2	5.4	5.40 0 0	3.54	8.94	9.9	− 1.28 −0.10	8.62	?
	5	59 5.1	5.9	5.90 0 0	3.49	9.39				
	6	66 6.4	6.1	6.65 0 1	3.29	9.94				
	7	7.1 6.9	7.3	7.20 1 1	3.22	10.42				
Remeas. Feb. 8, '17.	8		7.7		3.20	10.90				
sc.2 8.2	9		8.0		3.20	11.20				
8.4	10		8.4		3.23	11.63				
				8.80 0 0						
8.7	11		8.8	8.8	3.24	12.04				
				9.50 1 1						
9.7 2	12		9.4	9.6	3.33	12.83				
				9.65 1 0						
9.7 1	13		9.7	9.6	3.34	12.99				
				9.85 0 1						
9.8	14		9.8	9.9	3.39	13.24				
	15		1.	1.	.					

copied 44:198

		3.7								
a		3.5	3.		3.93	7.63	8.4	− 1.30	7.10	8.4
		63								
d'		6.1	6.3	6.30 0 0	3.35	9.65	n.s.	.	.	n.s.
		65								
f		6.3	6.6	6.55 1 0	3.30	9.85				
		66								
g		6.4	6.7	6.65 0 1	3.29	9.94				
double.	h		8.1?		3.21	11.31?				
				7.55 1 0						
k			7.5	7.6	3.20	10.75				
				7.80 0 0						
l			7.8	7.8	3.20	11.00				
				8.20 0 0						
m			8.2	8.2	3.21	11.41				
				8.25 1 0						
n			8.3	8.2	3.21	11.46				

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Friday November 24, 1916.

Scale M-

B Series 158.

B 46786 g — { 30 KS / 2 RS Cannae h — Diffr. Inn.

	sc 1	sc 2		sc 1	sc 2		
b = 1		7.3	72510	7.2		0.28	7.53
c = 2		7.5	75510	7.6		0.22	7.77
3		8.3	82510	8.2		0.15	8.40
d = 4		8.4	84501	8.5		0.13	8.58
5		9.4	94501	9.5		0.10	9.55
6		sup		sup		,	,
7		+		+		,	,
8							
9							
10							

a	67 6.5	665	10	66 6.4		0.41	7.06
d'		9.1	97000	9.1		0.10	9.80
f		9.6		sup.		0.10	9.70
g		sup.		+		,	,
h		n.s.		n.s.		,	,
fe							
l							
m							

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Scale M. B Series 158. Alt Cor -02

B 46187 Carte 11 -51.5°

Diffn.

	Pc.1	Pc.2	Pc.3	Cu.		g	h			P.C. Pc.2	
	3.5					7.45 0 1					
1	3.6			3.90	7.70	7.4	7.5	0.24	7.69	8.1 -1.30	7.40
	4.6					8.00 1 1					
2	4.4	4.3	4.45 2 1	3.75	8.20	8.1	7.9	0.18	8.18	9.3 -1.30	8.00
	5.5					8.85 0 1					
3	5.3	5.5	5.50 0 0	3.52	9.02	8.8	8.9	0.11	8.96	∓ .	.
	5.7					9.20 0 0					
4	5.5	5.6	5.65 1 0	3.50	9.15	9.2	9.2	0.10	9.30		
	6.0					9.45 0 1					
5	5.8	5.8	5.90 1 1	3.45	9.35	9.4	9.5	0.10	9.55		
	6.2					9.45 1 0					
6	6.0	6.1	6.15 0 1	3.39	9.54	9.5	9.4	0.10	9.55		
	6.5					9.75 1 0					
7	6.3	6.3	6.40 1 1	3.33	9.73	9.1	9.8	0.10	9.85		
8		7.2		3.22	10.42	∓	∓	.	.		
9		7.8		3.20	11.00						
10		7.8		3.20	11.00						
		8.35 0 1									
11		8.4	8.6 3	3.22	11.57						
		8.35 0 1									
12		8.4	8.3	3.22	11.57						
		8.95 2 1									
13		8.8	9.1	3.25	12.20						
		9.50 0 0									
14		9.5	9.5	3.23	12.83						
		9.85 1 0									
15		9.9	9.8	3.39	13.24						

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Friday November 24, 1916.

Sheet 49

Scale m-

B Series 158.

B46792 C7

	sc.1	sc.2	sc.2	Cw.	Diff Im. q	Diff Im. h		P.C. Pc.?
1	B.			.	tf	tf.	.	8.2 – 1.35
2	42 4.0			3.51	tf.	~~tf~~ 1.3?	0.41	9.1 – 1.39
3	B.			.	tf.	tf.	.	9.4 – 1.29
4	48 4.6			3.40	tf	7.8	0.40	9.4 – 1.20
5	50 4.8			3.56	8.3	8.4	0.21	99 – 1.34
6	54 5.2	5.6	550 L 1	3.44	tf.	8.6	0.34	ms. .
7	57 5.5	5.6	565 1 0	3.55	tf	tf.	.	
8	63 6.1	6.1	620 1 L	3.40	tf.	9.5	0.10	
9	to fan.	tf.		.	7	7	.	
11	71 6.9	7.1	710 00	3.01	ms	ms.	.	
12	7.1 6.9	7.1	710 00	3.26				
13		7.4		3.26				
15		7.7		3.29				
16		7.9		3.33				
17		8.1		3.46				
19		865 01 8.6		8.1 3.36				
20		875 L 0 8.1		8.8 3.51				
21		960 00 9.6		9.6 3.21				
22		975 L 0 9.1		9.8 3.51				
23		985 01 9.8		9.9 3.55				
24		4.		4. .				
25		4.		.				
26		ms		.				
27		ms.						

Plate is very badly streaked.

12:05

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Friday December 1, 1916.

Sheet 50

Salem

B Series 158.

12 – B 46784 C6.

	pc.1	pc.2				pc.2
1						8.3 – 1.54
2						8.1 – 1.22
3						8.8 – 1.29
4	3.6 3.4				3.96	8.8 9.1 – 1.24
5	tfr. 4.3					9.1 – 1.33
6	4.1	4.5	440	L	3.81	9.1 – 1.49
9	4.8 4.6	4.9	485	0	3.74	9.8 – 1.21
10	5.0 4.8	5.2	510	L	3.80	1.
10a	5.3 5.1	5.5	540	L	3.66	
12	5.7 5.5	5.9	580	L	3.54	
13	6.3 6.1	6.3	630	0	3.39	
14	6.9 6.7	6.8	685	1	3.21	
16		7.4			3.12	
17		7.6			3.18	
19		7.8			3.13	
21		8.2			3.06	
22		8.2 8.55	0	1	3.34	
23		8.6 9.05	8.5	1	3.28	
24		9.1 9.05	9.0	1	3.11	
25		9.0 9.35	9.1	1	3.28	
26		9.3 9.65	9.4	1	3.33	
28		9.6 9.90	9.9	1	3.47	
28		10.0	9.8		3.38	
30		n.s.	n.s.			

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Friday December 1, 1916.

Scale m. B Series 158.

B 46 78 4 C 6 - Diffr. Inn.

g h

	pc.1	pc.2		pc.1	pc.2	
	64 62			th.		0.36
2	th.			th.		.
3	th.			7.6		-0.09
4	7.4	7.350	L	7.3		0.21
5	7.6			th.		0.17
6	7.9	8.00	L1	8.1		0.21
9	8.4	8.40	00	8.4		0.19
10	8.6	8.60	00	8.6		0.30
10 a	th.			9.1		-0.04
12	9.4	9.40	00	9.4		-0.06
13	9.7	9.70	00	9.7		-0.01
14	9.9	9.90	00	9.9		0.16
16	f			f.		.
17	n.s.			n.s.		.

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Friday December 1, 1916.

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Scale M.

B Series 158 Alt Com + 07

B 4678 8 Carte 12h - 9.5°

	sc 1	sc 2	sc 2	Cu.	Magn	Diff. Dem.			O.C. sc 2
	4.9					8.35 0 L			
1	4.7			3.58	8.48	8.4 8.3	0.14	8.49	98 – 1.24 8.56
	5.2					8.65 1 0			
2	5.0	5.1	5.15 0 L	3.51	8.66	8.7 8.6	0.10	8.75	n.s. .
	5.6					8.80 0 0			
3	5.4	5.5	5.55 0 1	3.44	8.99	8.8 8.8	0.08	8.88	
	5.6					9.1 8.90 2 2			
4	5.4	5.6	5.60 0 0	3.44	9.04	8.8 8.1	0.07	8.97	
	6.2	6.0				9.65 1 0			
5	5.8	6.2	6.20 0 0	3.33	9.53	9.1 9.6	– 0.04	9.61	
	6.6					9.85 1 0			
6	6.4	6.6	6.60 0 0	3.29	9.89	9.7 9.8	– 0.08	9.77	
	6.8								
7	6.6	6.9	6.85 0 1	3.26	10.11	1 1	.	.	
8		7.2		3.24	10.44				
9		7.6		3.22	10.82				
10		8.0		3.24	11.24				
11		8.4		3.29	11.69				
12		8.4		3.29	11.69				
		8.80 0 0							
13		8.8	8.8	3.32	12.12				
		8.90 1 1							
14		9.0	8.8	3.34	12.24				
		9.45 1 9							
15		9.5	9.4	3.43	12.88				
		9.60 0 0							
16		9.6	9.6	3.46	13.06				
		9.95 0 1							
17		10.0	9.9	3.57	13.52				
18		1.	1.	.	.				
19		n.s.		.	.				

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Friday December 1, 1916.

Cofried B 35:91

Isolem B Series 158. Alt Con + 07

B 46789 Carte 12h – 23.5

Diff. Im.

	sc 1	sc 2		Cu.	Magn	sc 1	sc 1			O.C. sc 2	
	3.8					6.9 6.8 6.8					
1	3.6	B.		3.82	7.62	6.7	6.6	0.38	7.23	8.5 – 1.26	7.24
	6.0					sc 1	sc 2				
2	5.8	5.9	5.96 01	3.39	9.34	8.9 8.90 00	8.9	0.06	8.96	w.s. ,	,
	6.1					9.35 01					
3	5.9	6.2	6.15 10	3.34	9.49	9.4	9.3	0.00	9.35		
	6.8					9.45 01					
4	6.6	6.8	6.80 00	3.27	10.07	9.8	9.1	–0.06	9.69		
5		7.1		3.24	10.34	7	7	.	.		
6		7.3		3.23	10.53						
7		8.1		3.24	11.34						
8		8.2		3.25	11.45						
9		8.2		3.25	11.45						
10		8.5		3.30	11.80						
11		8.8		3.32	12.12						
		9.20 00									
12		9.2	9.2	3.39	12.59						
		9.15 10									
13		9.1	9.2	3.39	12.54						
		9.60 00									
14		9.6	9.6	3.46	13.06						
		9.45 10									
15		9.5	9.4	3.43	12.88						
		9.65 10									
16		9.7	9.6	3.48	13.13						
		9.80 00									
17		9.8	9.8	3.52	13.32						
18		4	7	,	,						

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Scale m. B series 158. Alt Con +04

B ~~55~~ 46790 Carte 12h - 40.5.

	pc.1	pc.2		Cu.		Diff. 1m. g	Diff. 1m. h			P.C. pc.2
1	43 4.1	4.3	4.30 00	3.92 70	8.00	7.8	8.55 01 + h -			9.21 – 126 7.94
2	57 5.5	5.6	5.65 10	3.47 3	9.08	8.6	8.5	0.11	8.66	↓ .
3	63 6.1	6.2	6.25 10	3.33 3	9.58	9.15 10 9.1	9.21	0.00	9.15	
4	67 6.5	6.7	6.70 00	3.28 8	9.98	9.65 01 9.6	9.7	– 0.04	9.61	
5		7.2		3.24 10	10.44	↓	↓	.	.	
6		7.6		3.21 8	10.81					
7		7.9		3.23 8	11.13					
8		8.2		3.26 2	11.46					
9		8.3		3.26 2	11.56					rej.
10		8.60 00 8.6	8.6	3.30	11.90					
11		8.85 01 8.8	8.9	3.33	12.18					
12		8.95 01 9.0	8.9	3.35	12.30					
13		9.65 10 9.7	9.6	3.48	13.13					
14		10.00 00 10.0	10.0	3.59	13.59					
15		↓		.	.					

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Scale M

B Series 158.

Alt Corr — 08

B 46791 1914K 12 58-60.

	sc1	sc2	sc3			Diff. Im. g	h			P.C sc2			
1	B 3.8					7.15	1 0						
2	3.6	B		3.82	7.62	7.1	7.2	0.32	7.47	8.1 8.9	8.6	-.127	7.33
3	6.0 5.8	6.1	6.05 0 1	3.36	9.39	760 0 0	7.6	0.25	7.85	8.9		-.127	7.63
4	6.4 6.21	6.5	6.45 0 1	3.30	9.75	9.15 0 1	9.1	0.02	9.17	ns.		,	,
5	6.7 6.5	6.1	6.70 0 0	3.28	9.98	9.75 0 1	9.7	-0.05	9.70				
6	7.2	7.2		3.24	10.44	∓	10.0	-0.09	9.91				
7	7.0	7.1	7.15 0 1	3.24	10.39	ns	ns.	,	,				
8		8.9		3.22	11.12								
rej. * 9		7.5		3.22	10.72								
10		8.2		3.26	11.46								
11		8.6	8.1 8.65 0 1	3.27	11.92								
12		8.9	8.8 8.85 1 0	3.32	12.17								
13		9.3	9.3 9.30 0 0	3.40	12.70								
14		9.7	9.6 9.65 1 0	3.48	13.13								
15		10.0	10.0 10.00 0 0	3.59	13.59								

* No. 9 var. re discovered by HOR.
See H.S.L. Bk 13:172 no. 51.

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Friday December 1, 1916.

Sheet 50

Solar

B Series 158.

B 4792 C7.

	sc.1	sc 2			
1	B		.		
2	4.2 4.0		3.51		
3	B 4.9		.		
4	4.7	4.8	4.85	1 0	3.35
5	5.2 5.0	5.2	5.20	0 0	3.36
6	5.7 5.5	5.6	5.65	1 0	3.29
7	5.5 5.6	5.7	5.75	0 1	3.45
8	6.3 6.1	6.1	6.20	1 1	3.40
9	tf. 7.0	tf.	.		
11	6.8	7.1	7.05	0 1	3.06
12	7.0 6.8	7.1	7.05	0 1	3.31
13		7.4			3.26
15		7.8			3.19
16		7.8			3.43
17		8.1			3.46
19		8.6			3.41
20		8.8			3.46
21		9.5 9.50	9.5 9.65	0 0 1 0	3.31
22		9.1 9.70	9.6	0 0	3.61
23		9.1	9.7		3.70
24		f.	4.		,
25		nc.			,
26					
27		ns.			

P.C.

sc 2	
81	1.25
90	1.29
93	1.19
92	1.00
100	1.44

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Friday, December 1, 1916.

Scale m. B Series 158.

B 46792 C7-
h

	sc.1	sc2		sc.2	
1	tp.		tp.		.
2		tp.		7.4	0.31
3		7.9	7.85 10	7.8	0.26
4		7.8	7.80 00	7.8	0.40
5		8.2	8.25 01	8.3	0.31
6		8.5	8.45 10	8.4	0.49
7		tp.		tp.	.
8		9.4	9.35 01	9.3	0.25
9		7		7	.
11					
12					
13					
15					
16					
17					
19					

1;30

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Sheet 50

Saturday December 2, 1916.

Scale m. 9:55

B series 96

B 46 147 Cl.

P.C.

	sc.1	sc.2			sc.2
1	B.				8.6 — 1.42
2	B				8.1 — 1.31
3	B				8.1 — 1.20
4	tf.				9.3 — 1.34
5	4.2 4.0				
7a	5.3 5.1 prov	B.		4.13 3.76	9.1 — 1.37
9	5.1 4.9	5.0	5.05	1 0 4.23	
11	5.3 5.1	5.5	5.40	1 1.29	
12	5.8 5.6	6.1	5.95	2 1.07	
13a	6.6 6.4	6.8	6.70	1 3.74	
14	7.0 6.8	7.1	7.05	0 3.57	
15		7.4		3.64	
16		7.1	8.05	1 0 3.50	
17		8.1	8.55	0 1 3.45	
18		8.6	8.50	0 8.5 3.39	
18a		8.5	8.75	1 0	
19		8.1	9.25	1 2 3.46	
20		9.1	9.60	0 0 3.37	
21		9.6		9.6 3.29	
24		w.s.			
25					
26					
27					
28					
29					
30					

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Saturday December 2, 1916.

Salem.

B Series 96.

	B 46147 g sc 1	sc 2	C1 h sc 1	sc 2	Diff Dm.
1	6.6 6.4	6.5 0 1	6.7 6.5		0.53
2	6.9 6.7	6.85 1 0	6.8 6.6		0.54
3	tf.		7.0 6.8		0.50
4		tf.		tf.	,
5		tf.		8.2	0.13
7a		tf.		tf.	,
9		9.3	9.25 1 0	9.2	0.03
11		9.8	9.75 0 1	9.7	-0.06
12		9.9	9.85 1 0	9.8	0.17
14		n.s.		n.s.	,
15					
16					
17					
18					
19					
20					

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Scale M — B Series 96. Alt Corr + 07

B 46148 Carte $2^h - 9.5$

	sc.1	sc.2	sc.3	Cu.		Diff. Inv. a	h			P.C. sc.3
	5.8					9.20 00				
1	5.6	5.1	5.75 0 1	389	9.64	9.2	9.2	0.13	9.33	ws.
	5.9					9.50 00				
2	5.1	5.9	5.90 0 0	385	9.75	9.5	9.8	0.10	9.60	
	6.0					9.75 1 0				
3	5.8	6.2	6.10 1 1	380	9.90	9.7	9.8	0.08	9.83	
	7.0									
4	6.8	7.1	7.05 0 1	361	10.66	↓	↓	.	.	
5		7.9		350	11.40					
6		8.1		359	11.59					
7		8.3		349	11.79					
8		8.3		349	11.79					
9		8.5		347	11.97					
10		8.5		347	11.97					
11		8.9		347	12.37					
		9.00 00								
12		9.0	9.0	347	12.47					
		9.60 1 1								
13		9.5	9.1	348	13.06					
		9.70 0 0								
14		9.1	9.1	348	13.18					
		9.90 0 0								
15		9.9	9.9	349	13.39					
		9.90 0 0								
16		9.9	9.9	349	13.39					
17		wa.	↓	.	.					

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Scale m.

B Series 96 — Alt Com + 07

B 46149 Carte

2h − +3.5°

	pc1	pc2	Cu.		Diffn. 9 h				P.C. pc2		
1	B.			.	6.55 1.0 6.5	6.6	0.51	7.06	8.1	−1.32	7.38
2	48 4.6	4.1	4.75	0.1 4.06	8.60 0.9 8.6		0.19	8.79	4.		.
3	57 5.5	5.5	5.60	1.4 3.91	9.15 0.1 9.2	9.1	0.13	9.28			
4	65 6.3	6.5	6.50	0.0 3.70	4	4	.	.			
5		7.2		3.59	10.79						
6		7.2		3.59	10.79						
7		7.2		3.59	10.79						
8		7.6		3.53	11.13						
9		7.9		3.50	11.40						
10		8.1		3.49	11.59						
11		8.3		3.49	11.79						
12		8.6		3.47	12.07						
13		8.1		3.47	12.17						
14		9.1		3.47	12.57						
15		9.15 1.0 9.1	9.2	3.47	12.62						
16		9.15 1.0 9.1	9.2	3.47	12.62						
17		9.65 0.1 9.6	9.7	3.49	13.14						
18		9.90 0.0 9.9	9.9	3.49	13.39						
19		4	4	.	.						
20		ns.		.	.						

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Scale m. B Series 96. Alt Con -03

B 46150 D3. 5 - 15

P.C.

	sc 1	sc 2			sc 2		
					8.10 00		
1	.		.		8.1 8.1	− 1.25	6.85
					7.85 01		
2	.		.		7.8 7.9	− 1.20	6.65
3	.		.		7.8	.	.
4	B		.		8.4	− 1.30	7.10
5	B		.		8.6	− 1.31	7.29
6	B		.		8.6	− 1.31	7.29
7	B		.		8.8	− 1.33	7.47
8	3.7 3.5		4.14	7.84	9.2	− 1.35	7.85
9	4.2 4.0	4.1	4.15 01 4.10	8.25	9.7	− 1.36	8.34
10	4.9 4.1	4.8	4.85 10 4.04	8.89	10.1 H	− 1.36	8.74
10½	5.0 4.8	5.1	5.05 01 4.01	9.06	〃	〃	〃
11	4.9 4.1	4.8	4.85 10 4.04	8.89	〃	〃	〃
12	4.8 4.6	4.8	4.80 00 4.05	8.85	〃	〃	〃
13	5.0 4.8	5.1	5.05 01 4.01	9.06			
14	5.9 5.1	5.1	5.80 1 1 3.88	9.68			
15	5.9 5.1	5.8	5.85 10 3.87	9.72			
16	6.0 5.8	5.9	5.95 01 3.84	9.79			
17	6.3 6.1	6.4	6.35 10 3.74	10.09			
18	7.0 6.8	6.9	6.95 01 3.63	10.58			
19	7.0 6.8	7.1	7.05 01 3.61	10.66			
20		7.2		3.59	10.79		
21		7.6		3.53	11.13		
22		8.6	8.55 01 8.5	3.47	12.02		
23		7.90 00 7.9	7.9	3.50	11.40		
24		8.4		3.48	11.88		
25		8.9		3.47	12.37		
26		9.05 10 9.1	9.0	3.47	12.52		

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Scale M. B Series 96

B 4615.0 Cont D3

	pg 2	pg 7		
	960 ± 1			
27	9.5	9.7	3.48	13.08
	940 ± 1			
28	9.3	9.5	3.48	12.88
	995 ± 1			
29	10.0	9.9	3.49	13.44
30	↓	↓	.	.
31	m.s.			.

Sequence not in center of plate.

Images poor.

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Scale m. B Series 96.

	B 46 | 50 g sc 1	sc 2		D 3 h sc 1	sc 2	Diffr.	
1	th.			6.1 5.9		0.74	6.84
2	th.			th.		.	.
3	th.			th.		.	.
4	th.			6.4 6.2		0.64	7.04
5	th.			th.		.	.
6	th.			th.		.	.
7	th.			th.		.	.
8		th.			7.2	0.44	7.64
9		7.5	7.55	| 0	7.6	0.37	7.92
10		th.			8.1	0.26	8.36
10b 11		8.5 th.	8.55	| 0	8.6 8.1	0.19 0.26	8.74 8.36
12		8.3	8.35	| 0	8.4	0.22	8.57
13		8.6	8.55	0 |	8.5	0.29	8.74
14		9.5	9.40	1 |	9.3	0.10	9.50
15		9.4	〃		th.	0.09	9.79
16		7			7	.	.
17							
18							
19							
20							
21							

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Scale M. B series 96. Alt Con + 06

B 46 151 Carte 3h - 2.5°

Diff'ces. PC -

	Ac 1	Ac 2				q h				Ac 2
	4.6					8.55 0.1				
1	4.7	4.5	4.55 0.1	4.08	8.63	8.6	8.5	0.19	8.74	∓.
	5.8					9.90 1.1				
2	5.6	5.8	5.80 0.0	3.88	9.68	10.6	9.8	0.08	9.98	
	6.4					∓	∓	.	.	
3	6.2	6.3	6.35 0.1	3.74	10.09					
4		7.4		3.55	10.95					
5		7.8		3.51	11.31					
6		8.1		3.47	12.17					
		9.20 0.0								
7		9.21	9.21	3.46	12.67					
		9.65 1.0								
8		9.7	9.6	3.48	13.13					
		9.65 1.0								
9		9.7	9.6	3.48	13.13					
		10.00 0.0								
10		10.0	10.0	3.49	13.49					
11		n.s.		.	.					
12										
13										
14										
15										

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Saturday December 2, 1916.

Sheet-50

Salem.

B series 96.

B 4615 2 C 2

	pc.1	sc 2		P.C sc 2
1	B.		.	8.4 — 1.46
2	B		.	7.7 w.s. 8.5 — 1.26
3	3.7 3.5		3.94	8.9 — 1.26
4	4.0 3.8		4.20	9.1 — 1.50
6	4.8 4.6		3.87	10.0 — 1.33
7	4.9 4.1		4.16	
8	5.0 4.8		4.11	
10	5.3 5.1	5.5 5.40 1 1	3.95	
11	6.0 5.8	5.9 5.95 0 1	3.79	
12	6.3 6.1	6.2 6.25 1 0	3.71	
12a	6.7 6.5	6.8 6.75 1 0	3.66	
14		7.3	3.49	
16		7.5	3.68	
17		7.9	3.53	
19		8.4 8.75 0 1	3.43	
21		8.8 8.1 8.80 0 0	3.59	
22		8.8 8.8 9.20 0 0	3.70	
23		9.2 9.21 9.40 0 0	3.59	
25		9.4 9.4 10.10 0 0	3.70	
26		10.1? 10.1	3.57	
27		1.	.	
9a	6.3 6.1			
9b	6.3 6.1			
9c	4.8 4.6			

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Saturday December 2, 1916.

Salem.

B series 96 -

B 4615 2 C 2 Diffrdm.

	g pc1 sc7		h pc1 sc2	
			6.3	
1	tfr.		6.1	0.64
			6.4	
2	tfr.		6.2	0.84
3	tfr.		7.2	0.44
4	7.7	7.7000	7.7	0.50
6	8.2	8.2501	8.3	0.42
7	8.5	8.5510	8.6	0.51
8	8.6	8.5501	8.5	0.56
10	9.3	9.2510	9.2	0.10
11	9.6	9.5501	9.5	0.19
12	10.0	9.9501	9.9	0.01
14	ns		ns.	
16				
17				
19				
21				
9a				
9b	f		f.	
9c	8.2	8.3011	8.4	

(127)

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Scale m

B Series 170

Alt Cor -05

10 — B 46913 172 K. 8 40-45.2

	sc.1	sc.2	sc.2	Cu.		g sc.2	h sc.2			P.C. sc.2
	145					815 01				
1	4.3			3.86	8.36	8.2	8.1	0.04	8.19	sup.
	4.8					840 00				
2	4.6	4.9	4.85	0 1.373	8.58	8.4	8.4	0.02	8.42	94—149 7.91
	5.8					865 19				
3	5.6	5.1	5.75	0 1.344	9.19	8.7	8.6	0.01	8.66	ns . .
	6.1									
4	5.9	6.1	6.10	0 0.335	9.45	9.1	tf.	-0.02	9.08	
	6.4									
5	6.7	6.6	6.50	1 3.24	9.74	9.4	tf.	-0.03	9.37	
						955 10				
6		1.2		3.10	10.30	9.5	9.6	-0.05	9.56	
						985 01				
7		1.7		3.08	10.48	9.8	9.9	-0.06	9.79	
8		1.9		3.06	10.96	f	f	.	.	
9		8.1		3.05	11.15					
10		8.4		3.06	11.46					
		865 01								
11		86	8.7	3.08	11.73					
		890 1								
12		8.8	9.0	3.10	12.00					
		930 1 1								
13		9.2	9.4	3.16	12.46					
		970 00								
14		9.7	9.7	3.23	12.93					
		990 1 1								
15		9.8	10.0	3.30	13.20					

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Shutter

Tuesday December 5, 1916.

Salem

B Series 170-

B 46914 C6

11 + 15°

	sc.1	sc.2		Diffr. Imm. q sec.2 h		P.C. sc.2
1	B		.	64	th. 0.36	8.1 – 1.34
2	B		.	th	th. .	8.3 – 1.42
3	B.		.	th.	7.5 0.01	9.1 – 1.59
4	3.5 3.3		4.06	7.5	7.4 0.11	9.1 – 1.54
5	B.		.	7.6	th. 0.17	9.1 – 1.33
6	3.9 3.1		4.31	8.1	8.1 0.11	9.6 – 1.39
9	4.7 4.5	4.9	4.80 1 1.379	8.5	8.5 0.09	th. ,
10	5.0 4.8	4.9		8.8	8.8 0.10	
10a	5.1 4.9	5.5	4.95 0 1.395	9.1	8.9 0.06	
12	5.6 5.4	5.6	5.30 2 2.376	9.6	9.5 – 0.21	
13	6.3 6.1	6.3	5.60 0 0.374	th	10.0 – 0.31	
14	6.8 6.6	6.9	6.30 0 0.339	th	10.1 – 0.04	
16		7.5	6.85 0 1.321	ws	n.s. ,	
17		7.6	3.02			
19		7.9	3.18			
21		8.1	3.03			
22		8.6	3.16			
23		8.8	2.94			
24		9.1 0 0	3.03			
25		9.1 9.1	3.06			
26		9.2 9.4	3.03			
27		9.4 9.6	3.18			
28		9.7 9.9	3.32			
30		10.0 0 0	3.28			
		th.	.			

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Scale M. B Series 170. Alt Corr +06

B 46915 126 K- $10^h\ 17^m$

		g			h				Bc.
	sc.1	sc.2	sc.2	Cu.	Magn.	sc.2	sc.2				sc.2
1	4.0 (4.2)	B.		3.97	8.17	7.1	7.1	0.20	7.30		9.1 − 1.47 7.63
2	5.1 (5.3 5.4 5.2)	5.6	5.43 L 02	3.55	8.98	th.	th.	.	.		ms. .
3	6.4 (6.6)	6.5	6.55 01	3.22	9.77	9.8	9.7	−0.06	9.69		
4	6.5 (6.7)	6.8	6.75 L 0	3.18	9.93	†	†	.	.		
5	6.8 (7.0)	7.1	7.05 01	3.11	10.16						
6		7.9		3.05	10.95						
7		8.1		3.05	11.15						
8		8.1		3.05	11.15						
9		8.8 (8.75 01)	8.7	3.08	11.83						
10		9.1 (9.10 00)	9.1	3.11	12.21						
11		9.6 (9.65 01)	9.7	3.21	12.86						
12		9.7 (9.75 L 0)	9.8	3.25	1300						
13		7.	7.	,	,						
14		ms.	ms.	,	,						

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Tuesday December 5, 1916.

Cepheid B 35:64

Scale m-

B Series 170 -

Alt Com + 07

B 46917 Carte 11h -16.5°

	pc.1	pc.2	pc.2	Cu.		g h pc.2	pc.2			P.C. pc.2	
	49					8450 01					
1	4.1	4.9	4.90 00	3.72	8.62	8.4	8.5	0.02	8.47	9.1 – 1.50	8.20
2	58 5.6	5.1	5.75 01	3.44	9.19	9.5	nearly sup.	−0.04	9.46	n.s.	.
	67					10.00 00					
3	6.5	6.7	6.70 00	3.20	9.90	10.0	10.0	−0.07	9.93		
4		7.5		3.07	10.57	ns	ns.	.	.		
5		7.6		3.06	10.66						
6		7.7		3.06	10.76						
7		7.7		3.06	10.76						
8		8.1		3.05	11.15						
9		8.1		3.08	11.78						
10		8.1		3.08	11.78						
11		9.1		3.11	12.21						
		9.15 01									
12		9.2	9.1	3.12	12.27						
		9.40 00									
13		9.4	9.4	3.17	12.57						
		9.60 00									
14		9.6	9.6	3.21	12.81						
		9.70 00									
15		9.7	9.7	3.13	12.83						
		10.00 00									
16		10.0	10.0	3.33	13.33						
17		4	4.	.	.						

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Tuesday December 5. 1916.

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Scale M

B Series 170.

Acc Con-02

B 46918 Carte $11^h - 51.5$

	sc.1	sc.2	sc.2	Cu.		g h sc.2	sc.2			Pc. sc.2	
	4.0					7.25 01					
1	3.8			4.03	8.03	7.2	7.3	0.18	7.43	8.8 – 1.45	7.35
2	4.9 4.1	4.9	4.90 0 0	3.80	8.70	tp. 7.9		0.08	7.98	9.5 – 1.49	8.01
	5.9					8.80 00					
3	5.1	5.8	5.85 1 0	3.41	9.26	8.8	8.8	0.00	8.80	ns. .	.
	5.9					8.85 1 0					
4	5.1	5.8	5.85 1 0	3.41	9.26	8.9	8.8	0.00	8.85		
	6.1					9.40 00					
5	5.9	6.2	6.15 L 0	3.32	9.47	9.4	9.4	– 0.03	9.37		
	6.7					9.45 01					
6	6.0	6.4	6.30 L 1	3.30	9.60	9.4	9.5	– 0.03	9.42		
	6.5					9.80 00					
7	6.3	6.7	6.60 L 1	3.21	9.81	9.8	9.8	– 0.06	9.74		
8		7.3		3.09	10.39	4	5	.	.		
9		7.1		3.06	10.76						
10		7.9		3.06	10.96						
11		8.2		3.06	11.26						
		8.35 0 1									
12		8.4	8.3	3.06	11.41						
		8.80 00									
13		8.8	8.8	3.09	11.89						
		9.45 01									
14		9.4	9.5	3.18	12.63						
		9.80 00									
15		9.8	9.8	3.27	13.07						
16											
17											

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Tuesday December 5, 1916. Shutter 51

Scale M. B Series 170.

B 46924 C7.

	pc 1	pc 2	pc 2		Diff. Im. pc 2 pc 2		P.C. pc 2
1				.		.	
2				.	th. 1b.	-0.11	8.3 – 1.45
3	44 4.2			3.71	8.10 00 8.1 8.1	0.01	9.3 – 1.59
4	46 4.4	4.7	4.65 0 1	3.55	8.15 1.0 8.2	0.05	9.5 – 1.39
5	49 4.1	5.3	5.10 2.2	3.46	8.40 0 0 8.4 8.4	0.16	9.6 – 1.40
6	55 5.3	5.6	5.55 1.0	3.39	9.00 1.1 8.9 9.1	-0.06	10.1 – 1.54
7	60 5.8	5.8	5.90 1 1	3.30	th. 9.1	0.10	ws. ,
8	64 6.2	6.4	6.40 00	3.20	9.55 1.0 9.5 9.6	0.05	
9	th.	th.		,	‡ ‡.	,	
11	71 6.9	7.1	7.10 00	3.01	ws ws.	,	
12		7.4		2.96			
13		8.5		3.16			
15		7.9		3.09			
16		8.1		3.13			
17		8.4	8.85 10	3.16			
19		8.9	8.8	3.16			
20		9.1	9.10 00 9.1 9.1	3.16			
21		9.7	9.65 10 9.6	3.16			
22		9.8	9.80 00 9.8	3.26			
23		10.0		3.40			
24		‡ ws.		,			
25							
26							
27							

11:32

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Thursday December 7, 1916.

Scale m-

10—

B Series 170 - .

B4691+ Cb.

Diffs Inv PC

	Ac.1	Ac.2	Cu.	Ac.2
1	B.		.	8.1 — 1.34
2	B.		.	8.3 — 1.42
3	39 3.7		3.61	9.1 — 1.59
4	tp.		.	9.2 — 1.64
5	B.		.	9.2 — 1.45
6	41 3.9		4.11	9.6 — 1.39
9	49 4.7		3.69	10.1 — 1.51
10	49 4.7	5.1 5.00 1	1.390	ms .
10	53 5.1	5.1 5.20 1	1.386	
12	58 5.6	5.5 5.65 2	1.369	
13	63 6.1	6.2 6.25 1	0.344	
14	68 6.6	6.8 6.80 0	0.326	
16		7.5	3.02	
17		7.6	3.18	
19		7.8	3.13	
21		8.2	3.06	
22		8.3	3.24	
		8.75 1 0		
23		8.1 8.8	3.08	
		9.00 1		
24		8.9 9.1	3.16	
		9.15 1 0		
25		9.1 9.2	3.18	
		9.60 0 0		
26		9.6 9.6	3.08	
		9.75 1 0		
27		9.7 9.8	3.37	
		9.95 1 0		
24		9.9 10.0	3.33	
29		7.		

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Thursday, December 7, 1916.

Scale m . B Series 170.

B 46914 C6.

	g pc.1 sec 2		h pc.1 sec 2	
1	6.1 (6.3)		th.	0.46
2	th.		th.	.
3	7.4	7.4501	7.5	0.06
4	7.4	7.4501	7.5	0.11
5	7.5		th.	0.27
6	8.1	8.1000	8.1	0.11
9	8.5	8.4510	8.4	0.14
10	9.1	9.0011	8.9	
10a	9.1	9.1000	9.1	−0.10
12	9.5	9.5510	9.6	−0.04
13	10.0		th.	−0.21
14	11.		10.0	−0.31
16				0.06
17				
19				
21				

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Thursday December 7, 1916.

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Sedalia

B Series to 170

Alt Corr + 07

B 4690 20 Carte 13h – 16.5

Diff Dm.

	sc.1	sc.2			Cu	Magn of h				O.C. sc.2		
1	47 4.5	4.4	4.55	1 2	3.372	8.27	t.f.	7.6?	0.10	7.70?	9.45 1 0 9.574	–.146	7.99
2	4.5 4.3	4.5	4.50	0 0	3.374	8.24	7.5?	t.f.	0.12	7.62?	9.35 1 0 9.497	–.146	7.89
3	50 4.8	5.1	5.05	0 1	3.363	8.68	8.6	t.f.	0.01	8.61	10.0?	–.141	8.59?
4	6.1 5.9	6.2	6.15	1 0	3.335	9.50	9.9 9.90	9.9 0 0	–0.06	8.84			
5		7.2			3.315	10.35	n.s.	n.s.	.	.			
6		7.6			3.310	10.70							
7		7.9			3.310	11.00							
8		8.4			3.311	11.51							
9		8.9			3.314	12.04							
10		9.2			3.319	12.39							
11		9.3			3.320	12.50							
12		9.45 1 0 9.5	9.4		3.324	12.69							
13		9.75 0 1 9.8	9.7		3.332	13.07							
14		9.95 0 1 10.0	9.9		3.343	13.38							
15		10.05 1 0 10.1	10.0		3.349	13.54							
16		7			.	.							

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Scale M. B Series 170 - Alt Cor + 06

B 4692 Carte 13h - 2.5.

	Rc.1	Rc.2			Diff. Inn.			P.C. Rc.2	
					9h 7.55 01				
1	B. 4.8		.		7.6 7.5	0.11	7.66	9.3 − 1.46	7.84
2	4.6 5.3		3.69	8.49	8.35 10 8.3 8.4	0.02	8.37	9.8 − 1.44	5.36
3	5.1 5.9	5.3	5.30 00 3.58	8.88	8.65 10 8.7 8.6	0.00	8.65	ns	, ,
4	5.1 6.5	5.6	5.75 12 3.46	9.21	9.30 00 9.3 9.3	−.003	9 8.27		
5	6.3 6.5	6.4	6.45 10 3.30	9.75	10.00 00 10.0 10.0	−0.06	9.94		
6	6.3	6.4	6.45 10 3.30	9.75					
7		9.3	3.14	10.44					
8		9.8	3.10	10.90					
9		9.9	3.10	11.00					
10		8.6	3.12	11.72					
		9.00 11							
11		9.1 8.9	3.15	12.15					
		9.20 00							
12		9.2 9.2	3.19	12.39					
		9.25 01							
13		9.2 9.3	3.20	12.45					
		9.55 21							
14		9.4 9.1	3.26	12.81					
		10.00 00							
15		10.0 10.0	3.47	13.47					
16		4	.	,					

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Scale m B Series 170 Alt Cor 00

B 46922 W Cent. 13

	pc.1					Diff'l m pc.2 g h			pc.2		
A			.			5.1 +/-	0.44	6.14	7.8	-1.33	6.47
B	B..		.			6.55 01 6.6 6.5	0.28	6.83	8.6	-1.45	7.15
C			.			7.50 00 7.5 7.5	0.12	7.62	9.0	-1.46	7.54
D	4.7 4.5	4.8	4.75 1 0	3.69	8.44	8.45 01 8.4 8.5	0.01	8.46	9.1	-1.42	8.28
a'	6.3 6.1	6.2	6.25 1 0	3.32	9.57	9.80 00 9.8 9.8	-0.05	9.75	wc.	.	.
b'	6.4 6.2	6.3	6.35 0 1	3.31	9.66	9.85 01 9.8 9.9	-0.05	9.80			
~~b'~~				.	.	? ?	.	.			
d'		9.8		3.10	10.90						
e'		8.1		3.10	11.20						
f'		8.6		3.12	11.72						
too nearly sup g'		.		.	.						
h'		9.4		3.23	12.63						
k'		9.1		3.30	13.00						
l'		9.8		3.34	13.14						
l''		9.9		3.40	13.30						
m'		9.9		3.40	13.30						
l3		*10.0		3.47	13.47						
m3		1*		.	.						

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Scale M. B Series 170. Alt Corr. -.03

B 46923 N Cent. 12 28 – 541

		pc.1	pc.2	Cu.		Diff dm. per h			B.C. pc.2	
A	B			.		7.0 th.	0.20	7.20	8.7 – 145	7.25
C	B			.		7.1 7.55 th.	0.09	7.29	8.6 – 145	7.15
D	3.5 37			3.87	7.57	7.5 7.6	0.11	7.66	9.2 – 147	7.73
B	B.			.	.	8.1 th.	0.05	8.15	9.8 – 143	8.37
13'	5.3 56	5.5	5.50 0.0	3.52	9.02	8.75 0.1 8.8 8.7	0.00	8.75	ns. .	.
e	6.1 63	6.5	6.40 ± 1	3.30	9.70	9.65 0.1 9.6 9.7	-0.05	9.60		
f	5.9 6.1	6.1	6.10 0.0	3.38	9.48	9.40 0.0 9.4 9.7	-0.04	9.36		
f_1	6.8 70	7.1	7.05 0.1	3.18	10.23	7 7	.	.		
f_2		7.5		3.11	10.61					
h		7.8		3.10	10.90					
l'		8.1		3.10	11.20					
e'		8.4		3.11	11.51					
m		8.6	8.60 0.0 8.6	3.12	11.72					
e^2		8.6	8.65 0.1 8.1	3.12	11.77					
o		9.4	9.35 0.1 9.3	3.21	12.56					
fr		9.8	9.90 ± 1 10.0	3.40	13.30					
Var.	6.3 65			3.29	9.79					

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Thursday December 7, 1916.

Scale m.

B Series 170.

B 46924 C7.

	Sc. 1	Sc. 2	Sc. 2		Sc. 2
1	B		.		83 – 1.45
2	B		.		92 – 1.49
3	B		.		95 – 1.39
4	4.4 4.2		3.80		96 – 1.40
5	5.0 4.8	5.1	5.05 0	1.351	4. .
6	5.5 5.3	5.6	5.55 1 0	3.39	
7	5.9 5.1	5.9	5.90 0 0	3.30	
8	6.4 6.2	6.4	6.40 0 0	3.20	
9	th.	.		.	
11	7.1 6.9	7.1	7.10 0 0	3.01	
12		7.3		3.06	
13		7.5		3.16	
15		7.9		3.09	
16		7.9		3.33	
17		8.4	8.90 0 0	3.16	
19		8.9 8.9	9.10 1 1	3.11	
20		9.0 9.2	9.60 0 0	3.16	
21		9.6 9.6	9.75 1 0	3.21	
22		9.7 9.8	10.00 0 0	3.51	
23		10.0 10.0		3.40	
24					
25					
26		ns.			
27		ns.			

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Thursday December 7, 1916.

Scale M. B Series 1790.

B46924 C7.

	g pc.1 sec>		h pc.1 sec>	
1	th.		th.	.
2	th.		7.6	0.11
3	8.1	8.10 00	8.1	0.01
4	th.		8.3	-0.10
5	8.3	8.35 10	8.4	0.21
6	8.1	8.70 00	8.1	0.24
7	9.3	9.25 10	9.21	-0.05
8	9.6	9.55 01	9.5	0.05
9	th.		th.	.
11				
12				
13				
15				

11:35

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Saturday December 9. 1916.

Scale M-

9:55

B Series 91-

B 4607 21 Carte 20h -40.5°

	sc 1	sc 2	sc 2	g	h	PC. sc 2
1	B.			6.3	tfr.	8.0
2	B.			1.8	tfr.	9.3
3	5.1	5.2		8.6	8.6	10.1
4	5.7	5.7		9.2	9.1	
5	6.0	6.3		9.8	9.8	
6	6.4	6.8		10.0	9.9	
7	7.0	7.3		ns	ns	
8		7.7				
9		8.1				
10		8.5				
11		8.7				
12		9.0	9.0			
13		9.2	9.4			
14		9.5	9.7			
15		9.9	10.0			
16		10.1	10.1			

Wrong plate in cover. See correct sequence measured on page 160

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Saturday December 9, 1916.

Copied B 35; 26

Salem.

B Series 91 - Alt Corr + 06

B 46073 Carte $21^h - 2.5$

	sc 1	sc 2	sc 2	Cu.		sc 2 g	sc 2 h			P.C. sc 2
	3.9									
1	3.7	B.		3.64	7.54	8.65 1 0	8.3	0.40	7.70	9.0 – 1.36 7.64
	5.7									
2	5.6 5	5.6	5.65	1 0 3.48	9.13	8.1	8.6	0.45	9.10	n.s. .
	5.8									
3	5.6	5.7	5.75	0 1 3.47	9.22	9.35 0 1	8.1	0.45	9.15	
	6.0									
4	5.8	5.8	5.90	1 1 3.47	9.37	9.4	9.3	0.46	9.81	
	6.3					9.40 0 0				
5	6.1	6.2	6.25	1 0 3.45	9.70	9.4	9.4	0.46	9.86	
	6.7					9.75 1 0				
6	6.5	6.6	6.65	1 0 3.45	10.10	9.1	9.8	0.45	10.20	
	7.1									
7	6.9	7.2	7.15	1 0 3.46	10.61	7	7	.	.	
8		7.6		3.47	11.07					
9		7.5		3.46	10.96					
10		7.8		3.48	11.28					
11		8.2		3.50	11.70					
12		8.2		3.50	11.70					
		8.55 0 1								
13		8.6	8.5	3.55	12.10					
		8.60 0 0								
14		8.6	8.6	3.56	12.16					
		9.15 1 0								
15		9.1	9.2	3.66	12.81					
		9.50 1 1								
16		9.4	9.6	3.73	13.23					
		9.70 0 0								
17		9.7	9.1	3.79	13.49					
		10.00 0 0								
18		10.0	10.0	3.89	13.89					

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Saturday December 9. 1916

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Scale m-

B series 91-

Alt Con +08

B 46074 Carte

21h - 16.5

	sc 1	sc 2	Cu.		g sc 2	h sc 2			P.C. sc 2
	5.0				8.25 0 1				
1	4.98	5.2 5.10 ⊥ 1	3.350	8.60	8.2	8.3	0.44	8.69	1.
	4.9				8.15 0 1				
2	4.1	5.0 4.95 ⊥ 0	3.351	8.46	8.2	8.1	0.44	8.59	
	5.3								
3	5.1	5.5 5.40 ⊥ 1	3.349	8.89	scr.	8.6	0.45	9.05	
	6.0				9.15 0 1				
4	5.8	5.9 5.95 0 ⊥	3.346	9.41	9.2	9.1	0.46	9.61	
	6.6								
5	6.4	6.8 6.70 ⊥ 1	3.345	10.15	10.0	1.	,	,	
6		1.4	3.346	10.86					
7		11.1	3.348	11.18					
8		8.4	3.353	11.93					
9		8.6	3.355	12.15					
10		8.6	3.355	12.15					
11		8.1	3.358	12.28					
12		9.0	3.363	12.63					
13		9.2 9.20 0 0	3.368	12.88					
14		9.2 9.2 9.45 1 0	3.368	12.88					
15		9.5 9.4 9.75 ⊥ 0	3.372	13.17					
16		9.7 9.8 10.00 0 0	3.381	13.56					
17		10.0 10.0	3.389	13.89					
18		9.8?	3.383	13.63?					
19		1. 1.	,	,					

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Saturday December 9, 1916

Sheet 52

Scale m

B Series 91-

B. 46075 C11-

	sc.1	sc.2	sc.2		Diffr Inn. sc.1	sc.2	sc.1	sc.2		PC. sc.2
1	3.6						6.5	3		
	B				th.		6.5		0.31	8.4 – 1.59
2	3.4			3.48			6.7			
					th.		6.5		0.38	8.6 – 1.52
3	B.			.		7.2	7.30	1 1	7.4	0.37 9.0 – 1.33
	4.1									
4	3.9			3.81		7.4	7.50	1 1	7.6	0.41 9.1 – 1.19
	4.8									
5	4.6	4.9	4.85	0 1 3.45	th.		7.8			0.50 9.1 – 1.40
	4.8									
6	4.6	5.1	4.95	2 1 3.51	th.		7.8			0.66 9.1 – 1.24
	5.3									
7	5.1	5.3	5.30	0 0 3.53	th		8.4			0.43 7. .
	5.7									
8	5.5	5.6	5.65	1 0 3.38	8.5	8.45	1 0	8.4		0.58
	5.9									
10	5.7	5.8	5.85	1 0 3.60	8.9	9.00	1 1	9.1		0.45
	6.3									
12	6.1	6.3	6.30	0 0 3.55	9.4	9.35	0 1	9.3		0.50
	6.4									
14	6.2	6.6	6.50	1 1 3.47	9.9	9.85	1 0	9.8		0.12
	7.0									
15	6.8	6.9	6.95	0 1 3.45	†		†			
16		7.5		3.20						
17		7.1		3.32						
20		7.9		3.49						
23		8.5		3.36						
24		8.1		3.70						
25		8.8		3.77						
		9.40	0 0							
26		9.4	9.4	3.50						
		9.35	1 0							
27		9.3	9.4	3.79						
		9.65	1 0							
28		9.7	9.6	3.74						
		9.85	1 0							
29		9.9	9.8	3.72						
30		†	10.0	3.97						
31		ws.		.						

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Saturday December 9, 1916. Copied B 35: 122

Scale m

B Series 91- Alt Corr +06

B 46076 Carte

21h - 31.5.

Diffs. Inm.

	pc 1	pc 2				q	h			q.c.	pc 2	
1	B.					tf.	6.8	0.38	7.18	86	−1.40	7.20
2	4.4 (4.6)	4.6	4.60	00	3.54	8.14	7.20 00					
3	4.8 (5.0)	5.2	5.10	−1	3.50	8.60	7.2 7.2	0.40	7.60	91	−1.35	7.75
4	5.1 (5.9)	5.9	5.90	00	3.46	9.36	tf. tf.	.	.	100	−1.21	8.79
5	6.1 (6.3)	6.5	6.40	−1	3.45	9.85	tf. tf.	.	.			
6	6.8 (6.8)	6.8	6.80	00	3.45	10.25	9.85 10					
7	6.8 (7.0)	7.0	7.00	00	3.45	10.45	9.9 9.8	0.46	10.31			
8		7.5			3.47	10.97	7 7	.	.			
9		7.8			3.48	11.28						
10		8.0			3.50	11.50						
11		8.4	8.3	8.35	3.52	11.87						
12		8.5	8.6	8.55 −1	3.55	12.10						
13		8.8	8.8	8.80 00	3.60	12.40						
14		9.3	9.4	9.35 −1	3.71	13.06						
15		9.9	9.9	9.90 00	3.85	13.75						
16												
17												
18												

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Salem.

B Series 91.

Alt Con – 02

B 46077 Carte

21h – 51.5°

9 h

	pc.1	pc.2			9 h pc.2	pc.2			P.C. pc.2		
1	B		.		th. 5.5 from	.	.		1.5	.	.
2	B	B.	.		th. 6.5	0.36	6.86		8.1	– 1.39	7.31
3	4.0 (4.2)	4.0	4.10	1 1 3.60	7.70	th. 7.1 8.45 1.0	0.40	7.50	8.1	– 1.39	7.31
4	5.5 (5.7) (6.1)	5.6	5.65	1 0 3.48	9.13	8.5 8.4 9.25 1.0	0.44	8.89	m.s.	.	.
5	5.9 (6.5)	5.9	6.00	1 1 3.46	9.46	9.3 9.2 9.55 1.0	0.46	9.71			
6	6.3	6.2	6.35	1 2 3.45	9.80	9.5 9.6	0.45	10.00			
7		7.3		3.46	10.76	m.s. m.s.	.	.			
8		7.6		3.48	11.08						
9		8.0		3.49	11.49						
9a		8.3		3.51	11.81						
10		8.4		3.53	11.93						
11		8.75 8.8	0 1 8.7	3.59	12.34						
12		8.75 8.8	0 1 8.1	3.59	12.34						
13		9.15 9.2	0 1 9.1	3.66	12.81						
14		9.60 9.6	0 0 9.6	3.76	13.36						
15		10.00 10.0	0 0 10.0	3.89	13.89						

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Scale m. B Series 91- Alt Con + 07

B 46078 Carte 22h - 9.5.

	sc1	sc2	sc2			sc2			
1	B.					8.6	−	1.40	7.20
2	4.8 4.6	4.9	4.85	0	1 3.52	8.37	9.8	−	1.25 8.55
3	5.8 5.6	5.1	5.75	0	1 3.47	9.22	W.S.		
4	6.1 5.9	6.1	6.10	0	0 3.46	9.56			
5	6.5 6.3	6.6	6.55	1	0 3.45	10.00			
6	6.5 6.3	6.9	6.60	1	1 3.45	10.05			
7	7.1 6.9	7.2	7.15	1	0 3.46	10.61			
8		7.4			3.47	10.87			
9		7.8			3.48	11.28			
10		7.7			3.48	11.18			
11		8.0			3.50	11.50			
12		8.4			3.53	11.93			
13		8.6			3.55	12.15			
14		8.80 0 0 8.8 8.8 8.85 1 0			3.60	12.40			
15		8.9 8.8 9.05 1 0			3.60	12.45			
16		9.1 9.0 9.05 1 0			3.64	12.69			
17		9.1 9.0 9.25 1 2			3.64	12.69			
18		9.1 9.4 9.60 0 0			3.68	12.93			
19		9.6 9.6			3.76	13.36			

See also next page.

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Scale M

B series 91-

B 46078 cont

Diff Inn.

	g			h			
	sc.1	sc.2		sc.1	sc.2		
1	th.			66 68		0.39	7.19
2		th.			7.8	0.42	8.22
3		th.			8.1	0.46	9.16
4	9.4	9.30	1 1	9.2		0.46	9.66
5	9.9	9.90	00	9.9		0.45	10.35
6	9.8	9.85	01	9.9		0.45	10.35
7	m.s.			m.s.			
8							
9							
10							
11							
12							
13							
14							
15							

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Scale m. B Series 91. Alt Corr -10

B 4607 9 D 10.

P.C.

	sc 1		Cw.	Magn	sc 2	
1	tfr.		.	.	88 – 1.38	7.42
2	t.fr.		.	.	86 – 1.40	7.20
3	tfr.		.	.	tfr. .	.
4	tfr.		.	.	9.1 – 1.35	7.75
5	tfr.		.	.	9.3 – 1.32	7.98
6	t.fr.		.	.	9.3 – 1.32	7.98
7	42 4.0		359	7.79	9.3 – 1.32	7.98
8	45 4.3		358 6	8.06	nearly surf.	.
9	51 4.9	tfr.	350	8.60	99 – 1.22	8.68
10	48 4.6 from	tfr	353	8.33	98 – 1.25	8.55
11	50 4.8	5.3 515 2 1	350	8.65	ns? .	.
12	50 4.8	5.1 505 0 1	350	8.55		
13		5.1	350	8.60		
14	57 5.5	5.1 570 0 0	347	9.17		
15		1.3	346	10.76		
16	6.3 6.1	6.3 630 0 0	345	9.75		
17	70 6.8	7.1 705 0 1	346	10.51		
18	63 6.1	6.5 640 1 1	345	9.85		
19	69 6.7	7.1 700 1 1	346	10.46		
20		7.1	348	11.18		
21		7.4	346	10.86		
22		7.6	347	11.07		
23		7.1	348	11.18		
24		7.1	348	11.18		
25		8.4	353	11.93		
26		8.1	350	11.60		

red.

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Salem

B Series 91–

B 46079 D10

~~24~~	sc?		
27	8.1	3.50	11.60
28	8.3	3.52	11.82
29	8.1	3.58	12.28
30	8.1	3.58	12.28
31	9.0	3.64	12.64
32	9.3	3.70	13.00
33	9.6	3.76	13.36
34	9.1	3.80	13.50
35	9.1?	3.80	13.50?
36	9.1?	3.80	13.50?
37	10.0	3.89	13.89

See also next page –

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Scale m.

B Series 91.

	B 460 79 g sc.1	sc.2		D 10 h sc.1	sc.2		Diffr. 1m.	
1		th.		6.7	th.			
2	6.5		6.70 00	6.5			0.38	7.08
3		th.			th.		.	.
4		th.			th.		.	.
5		th.			th.		.	.
6		th.			7.7		0.42	8.12
7		th.			7.9		0.43	8.33
8		8.1	8.10 00		8.1		0.44	8.54
9		th.			8.1		0.44	8.54
10		th.			7.9		0.43	8.33
11		8.5	8.50 00		8.5		0.45	8.95
12		8.4	8.50 L1		8.6		0.45	8.95
13		8.8	8.80 00		8.8		0.46	9.26
14		9.3	9.25 10		9.2		0.45	9.70
15		h.			ms?		.	.
16								
17								
18								
19								
20								

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Salem

B Series 91 -

Alt Con +07

B 46080 Carte

22 - 23.5

	sc1	sc2			g sc2	h sc2			pc. sc2	
1	B.				tp. 6.9	0.39	7.29		8.4 - 1.42	6.98
2	5.5 (5.7)		3.48	9.18	tp. .88	0.46	9.26		n.s.	
3	5.9 (6.1)	5.9	6.00 1 1	3.46	9.46	9.35 1 2 9.5	9.2	0.46	9.81	
4	6.2 (6.4)	6.4	6.40 0 0	3.45	9.85	9.85 0 1 9.8	9.9	0.45	10.30	
5	6.1 (6.3)	6.3	6.30 0 0	3.45	9.75	9.9		0.45	10.35	
6	6.9 (7.1)	7.0	7.05 1 0	3.46	10.50	ns	ns.	,	,	
7		7.2		3.46	10.66					
8		7.5		3.47	10.97					
9		7.5		3.47	10.97					
10		7.9		3.49	11.39					
11		8.1		3.50	11.60					
12		8.1		3.50	11.60					
13		8.6 8.55 0 1	8.5	3.55	12.10					
14		8.5 8.40 1 1	8.3	3.53	11.93					
15		8.9 8.90 0 0	8.9	3.61	12.51					
16		9.25 9.25 0 1	9.3	3.68	12.93					
17		10.0 9.90 1 1	9.8	3.85	13.75					

12 15

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Salem.

B Series 91- Alt Con to 03

B 46072 Carte 20 -40.5

	sc.1	sc.7				g	h			P.C. sc.7		
1	B		.			tf	6.1	0.34	6.44	7.8	.	.
2	B.	B	.				7.10 00					
3	5.3 5.1	5.1	520 1 L	350	8.70	7.1	7.1	0.40	7.50	8.1	−.39	7.31
4	5.4 5.2	5.6	550 L 1	349	8.99	tf.	8.1	0.44	8.54	9.8	−.25	8.55
5	6.1 5.9	6.1	6.10 00	346	9.56		8.75 1 0			ws.	.	.
6	6.7 6.5	6.5	660 1 L	345	10.05	8.1	8.8	0.45	9.20			
7	6.9 6.7	7.0	6.95 L 0	345	10.40		9.10 00					
8		7.6		347	11.07	9.1	9.1	0.45	9.55			
9		7.9		349	11.39		9.30 1 1					
10		8.0		350	11.50	9.4	9.2	0.46	9.76			
11		8.10 00					9.65 0 1					
		8.1	8.1	350	11.60	9.6	9.7	0.45	10.10			
12		8.50 1 L				7	7	.	.			
		8.6	8.4	354	12.04							
13		8.80 1 1										
		8.9	8.7	359	12.39							
14		8.95 L 0										
		8.9	9.0	362	12.57							
15		9.30 L 1										
		9.2	9.4	370	13.00							
16		9.65 0 1										
		9.6	9.7	378	13.43							

See page 148.

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Sheet 138

Scale M. 9:43 B 46021 C10-

B Series 87.

	sc.1	sc.2			Diff. Im. g sc.2	h sc.2		D.C. sc.2	
1	.								
2	.								
3	B			,					
4	B.			,					
6	dbl?			,					
7	4.1 3.9	B.		3.19					
8	5.3 5.1	5.1	520 1	1.390					
9	5.1 4.9	5.1	510 00	4.30					
10	5.8 5.6	5.6	570 1	1.399					
11	6.3 6.1	6.3	630 00	3.74					
12	6.8 6.6	6.9	685 01	3.64					
13		7.2		3.53					
15		7.7		3.47					
16		8.1		3.42					
17		8.4	8.80 00	3.50					
nearly sup. 18		8.8	8.8	3.55					
19		9.3	9.25 10 9.2	3.49					
20		9.5	9.50 00 9.5	3.37					
21		10.0	10.00 00 10.0	3.48					
22		n.s	n.s	,					
24									
25									

th.	6.4	0.44	8.1	-1.26
th.	6.7 7.0	0.41	8.6	-1.19
th.	6.89	0.44	8.6	-1.26
7.50 1 1 th	7.6	0.34	8.8	-0.96
dbl	dbl?	,	dbl?	,
7.65 0 1	7.7 from	0.64	9.3	-1.01
8.45 0 1	8.5	0.65	10.2?	th. -1.10
9.10 0 0	9.1	0.30		
nearly 9.2		0.49		
sup. 9.75 0 1	9.7	0.29		
th	10.1	0.39		

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Scale M

B Series 87. Alt Con +07

B 46022 Carte 20 – 23.5

	pc.1	pc.2		Cu.	Magn.	sc.1 g	sc.2 h			pc. sc.2		
1	B.			'	'	tk. 6.5		0.43	6.93	8.1	– 1.20	6.90
2	B. 5.2			.	.	7.50 1.6 / 8.45 1.0	7.6	0.46	7.96	9.1	– 1.21	7.89
3	5.0	5.4	5.30 ± 1	3.98	9.28	8.5	8.4	0.42	8.87	7.	'	'
4	5.6 5.8	5.1	5.75 0 ±	3.87	9.62	tk. 8.6 / 9.70 1.1		0.41	9.01			
5	6.8 7.0	6.9	6.95 0 ±	3.62	10.57	9.6	9.8 / 9.75 1.0	0.27	9.97			
6	6.6 6.8	6.1	6.75 0 ±	3.65	10.40	9.1	9.8 / 9.90 0.0	0.25	10.00			
7	6.8 7.0	6.9	6.95 0 ±	3.62	10.57	9.9	9.9	0.23	10.13			
8		7.6		3.51	11.11	ns.	ns.	'	.			
9		7.9		3.47	11.37							
10		8.0 7.9		3.47	11.37							
11		8.0		3.46	11.46							
12		8.1		3.45	11.55							
13		8.2		3.44	11.64							
14		8.5		3.42	11.92							
15		8.6		3.42	12.02							
16		8.65 1.0 / 9.15 0.1	8.6	3.42	12.07							
17		9.2 / 9.25 0.1	9.1	3.40	12.55							
18		9.2 / 9.50 0.0	9.3	3.40	12.65							
19		9.5 / 10.00 0.0	9.5	3.40	12.90							
20		10.0	10.1	3.39	13.39							

Good plate Image rather sharp as compared with scale.

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Salem.

B Series 87.

Alt Corr + 04

B 46023 Carte 20h - 40.5.

	sc 1	sc 2		Cu.		g h sc 1	sc 1			P.C. sc 2		
1	B			.	.	5.4 5.30	5.6 5.4	.	.	7.6	.	.
2	B			.	.	sc 2 7.15	sc 2 7.2	0.47	7.62	8.9	-1.20 -33	7.70
3	4.6 4.4	4.8	4.70	L 1	4.11	8.81	7.1	7.9	0.46	8.36	9.8	-1.22	8.58
4	4.9 4.1	5.1	5.00	L 1	4.03	9.03	9.10 00 9.1	9.1	0.44	9.54	n.s.	.	.
5	5.6 5.4	5.1	5.65	0 1	3.90	9.55	9.25 10 9.3	9.7	0.43	9.68			
6	6.0 5.8	6.0	6.00	0 0	3.82	9.82	9.45 10 9.5	9.4	0.42	9.87			
7	6.3 6.1	6.5	6.40	L 1	3.72	10.12	7	7	.	.			
8		7.3			3.56	10.86							
9		7.5			3.52	11.02							
10		7.9			3.47	11.37							
11		8.2			3.44	11.64							
12		8.55 8.5	L 9 8.6		3.43	11.98							
13		8.90 8.9	0 0 8.9		3.41	12.31							
14		9.00 9.1	1 1 8.9		3.40	12.40							
15		9.50 9.8	3 3 9.2		3.40	12.90							
16		10.05 10.0	0 1 10.1		3.39	13.44							

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Monday December 11, 1916. Sheet 138

Scale m-

B Series 87-

B 46026 C11 1m underexposed. Corr. -.10 (for sc. 11.)

Diff. 1 m.

	sc.1	sc.7		Corr. Diff.	sc.7		Corr. Diff.	P.C. sc.7	Corr. Diff.
1	B.		.		tp. 6.6	0.21	0.31	8.3	-1.49 -1.39
2	B.		.		tp. 6.6	0.48	0.58	8.5	-1.42 -1.32
3	B.		.		7.40 00 7.4 7.4	0.27	0.37	9.1	-1.43 -1.33
4	B		.		7.60 00 7.6 7.6	0.31	0.41	9.4	-1.49 -1.39
5	4.7 4.5		3.60	3.70	tp. 8.1	0.20	0.30	9.9	-1.60 -1.50
6	4.1 3.9?		4.36	4.46	tp. 8.2	0.26	0.36	9.7	-1.24 -1.14
7	4.9 4.7	5.1	5.00 1 3.83	3.93	tp. 8.6	0.23	0.33	t.	.
8	5.0 4.8	5.1	5.05 01 3.98	4.08	8.75 01 8.8 8.7	0.28	0.38		
10	5.5 5.3	5.5	5.50 00 3.95	4.05	9.35 01 9.4 9.3	0.10	0.20		
12	6.0 5.8	5.9	5.95 01 3.90	4.00	tp. 10.0	-0.15	-0.05		
14	6.4 6.2	6.5	6.45 01 3.52	3.62	ws. m.s.		.		
15	6.9 6.7	6.8	6.85 10 3.55	3.65					
16		7.2		3.50	3.60				
17		7.7		3.32	3.42				
20		8.1		3.29	3.39				
23		8.8		3.06	3.16				
24		9.10 00 9.1 9.1		3.30	3.40				
25		9.20 00 9.2 9.2		3.37	3.47				
26		9.85 10 ~~9.99~~ 9.8		3.05	3.15				
27		9.90 00 9.9 9.9		3.24	3.34				
28		10.00 00 10.0 10.0		3.39	3.49				
29		tp. tp.		.					
30		ws.		.					

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Scale M

B Series 87-

Alt Corr +08

B 46078 Carte $7^h 3^h - 16.5°$

	ec 1	sc 2	sc 2			Diffs. 2nd. q	Diffs. 2nd. h		q.c. sc 2	
1	B			.	.	tf. 7.4	0.47	7.87	9.2 − 12.1	7.99
2	4.8 5.0	5.1	5.05 0 1	4.01	9.06	tf. 8.8 9.65 1 0	0.39	9.19	f.	.
3	5.4 5.6	5.6	5.60 0 0	3.90	9.50	9.1 9.6 10.00 0 0	0.27	9.92		
4	5.7 5.9	5.8	5.85 1 0	3.84	9.69	10.0 10.0	0.22	10.22		
5	5.9 6.1	6.1	6.10 0 0	3.80	9.90	ws. ws.	.	.		
6	6.5 6.7 6.8	7.1	6.90 7.0	3.62	10.52					
7		7.3		3.56	10.86					
8		7.5		3.52	11.02					
9		tfv.		.	.					
10		8.1		3.44	11.54					
11		8.4		3.43	11.83					
12		8.4		3.43	11.83					
13		8.80 0 0 8.8	8.8	3.42	12.22					
14		8.80 0 0 8.8	8.8	3.42	12.22					
15		9.25 1 0 9.3	9.2	3.40	12.65					
16		9.35 0 1 9.4	9.3	3.40	12.75					
17		9.60 1 1 9.5	9.1	3.39	12.99					
18		10.00 0 0 10.0	10.0?	3.38	13.38?					

Images not comparable with scale.

10:55

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1916phae.proj.10780

Thursday December 14. 1916.

Sheet 53

Scale M-

B Series 161-

9:30 B 468 18 Cy-

	sc.1	sc?			C.C. sc.2
1	B.				8.1 from — 1.25
2	4.4 4.2			3.31	8.8 — 1.09
3	4.7 4.5			3.41	9.21 — 1.09
4	4.9 4.7	4.9	4.90 0 0	3.30	9.21 — 1.00
5	5.3 5.1	5.21	5.25 1 0	3.31	10.0 — 1.44
6	5.7 5.5	5.6	5.65 1 0	3.29	10.2? ft. — 1.26
7	5.9 5.7	5.8	5.85 1 0	3.35	9.4
8	6.3 6.1	6.3	6.30 0 0	3.30	
off centre- 9	tf.	tf.		.	
11	7.0 6.8	6.9	6.95 0 1	3.16	
12	7.1 6.9	7.1	7.10 0 0	3.26	
13		7.6		3.06	
15		7.7		3.29	
16		7.8		3.43	
17		8.0		3.56	
18		8.2		3.49	
19		8.6		3.41	
		8.70 0 0			
20		8.7	8.1	3.56	
		9.20 0 0			
21		9.2	9.2	3.61	
		9.40 0 0			
22		9.4	9.4	3.86	
		9.70 0 0			
23		9.7	9.7	3.70	
		9.95 0 1			
24		10.0	9.9	3.95	
25		1.		.	

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1910phae.proj.10780

Thursday December 14. 1916.

Scale m. B Series 161-

B 46818 C7- Diff. Inv.

	g sc.1	sc.2		h sc.1	sc.2	
1		tk.			tk.	.
2		tk.			7.3	0.41
3		7.6	7.70	1	7.8	0.41
4		7.7	7.75	1 0	7.8	0.45
5		8.4	8.35	0 1	8.3	0.21
6		8.5	8.55	1 0	8.6	0.39
7		tk.			8.1	0.50
8		9.3	9.25	1 0	9.2	0.35
9		obl.			streaked	.
11		tk.			tk.	.
12		tk.			10.0	0.36
13						
15						
16						
17						
18						
19						
20						

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1916phae.proj.10780

Thursday December 14, 1916.

Cofuid 44!29

Salem.

B Series 161

Alt Corr +.04

B 4687 21 R.A. Cent 13 45-36 5

Diff. Inv.

	pc.1	pc.2			q	h.		pc.		
a	B.				6.6?	tf.		8.2	−1.18	7.02
c	4.6	4.8	4.80	0 0 3.59	8.39	8.1 tf.	0.30	8.40	9.6	−1.19 8.41
b	5.0	5.1	5.15	0 1 3.52	8.67	8.6 8.6	0.29	8.89	10.0	−1.17 8.83
d	5.6	5.1	5.75	0 1 3.42	9.17	tf. 9.1	0.28	9.38	ws.	. .
f	6.2	6.5	6.45	0 1 3.33	9.78	tf. 9.4	0.26	9.66		
e	6.9	7.0	7.05	1 0 3.30	10.35	10.0 f.	0.24	10.24		
e'		7.6	7.75	0 1 3.36	10.96					
g		7.8	8.05	0 1 3.37	11.12					
h		8.0	8.05	0 1 3.42	11.47					
k		8.0	8.05	0 1 3.42	11.47					
k'										
l		8.8	8.85	0 0 3.58	12.43					
m		9.3	9.15	1 2 3.65	12.80					
n		9.8	9.75	0 1 3.82	13.57					
Var.		8.6		3.52	12.12					

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Thursday December 14, 1916.

Cofuid 44:31

Scale M. B Series 161. Alt Con +.04

B 4688 2/2 cont. R X Cent. 13 45 – 36.5

	sc1	sc2		Cu.		sc2 g	sc2 h			R.C. sc2	
b'	4.8 (4.50)	5.1	5.05	0 1	3.53	8.58	8.4	8.6 (8.50 1)	0.30	8.80	9.8 – 1.18 8.62
a'	5.4 (5.36)	5.6	5.60	0 0	3.44	9.04	8.9 – +fr.		0.28	9.18	+? ,
a²	5.1 (5.59)	5.9	5.90	0 0	3.40	9.30	+f	9.1 (9.45 0)	0.27	9.37	
a³	6.2 (6.64)	6.4	6.40	0 0	3.33	9.73	9.4	9.5	0.26	9.71	
a⁴		7.2			3.32	10.52	+	+	,	,	
c'		7.4			3.34	10.74					
c²		7.7			3.36	11.06					
f'		7.8 (7.90 1 1)			3.38	11.18					
e'		7.8	8.0		3.40	11.30					
e²		8.8 (8.70 1 1)	8.6		3.54	12.24					
g'		8.8 (8.90 1 1)	9.0		3.59	12.49					
h'		9.3 (9.25 1 0)	9.2		3.67	12.92					
k'		10.0 (9.95 0 1)	9.9		3.87	13.82					
Var.		7 vars.									

d' omitted, double.

All c.s. designated as a', b' etc, instead of a, b etc, on account of two var. plate sequences on plate.

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Thursday December 14, 1916.

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Scale m.

B Series 161.

Alt Corr +06

B 46822 Carte 14h - 9.5

Diffs Im.

	pc.1	sc 2	sc 2	Cu.		q	h.		pc 2
1	B			.	.	5.0 sc.1 4.8	5.1 4.9	. .	6.8 . .
2	B			.	.	fh.	6.0 5.8	. .	7.6 . .
3	B.			.	.	sc 2 7.1	fh.	0.36 7.46	8.8 -1.20 7.60
4	5.3 5.1	5.5	5.40	-1	3.48 8.88	8.30 8.3	0 0 8.3	0.30 8.60	1. . .
5	6.3 6.1	6.1	6.20	-1	3.45 9.65	9.40 9.4	0 0 9.4	0.26 9.66	
6	6.9 6.7	6.8	6.85	-1	3.30 10.15	f	f	. .	
7		7.3			3.32 10.62				
8		7.4			3.33 10.73				
9		7.5			3.34 10.84				
10		7.8			3.38 11.18				
11		8.20 8.1	8.3	-1	3.45 11.65				
12		8.50 8.4	8.6	-1	3.50 12.00				
13		8.95 9.1	8.8	+2	3.60 12.55				
14		9.25 9.3	9.2	+0	3.68 12.93				
15		9.45 9.5	9.4	+0	3.73 13.18				

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Thursday December 14, 1916.

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Scale m

B Series 161.

Alt Corr + 06

B 4682.3 Carte $14^h - 23.5$.

	sc 1	sc 2		Cu.		g sc 2	h sc 2			P.C. sc 2	
1	5.4 5.2	5.6	5.50	1 1	3.346	8.96	8.60 8.6	0.29	8.89	10.0 – 1.17	8.83
2	5.5 5.3	5.6	5.55	1 0	3.345	9.00	th. 8.1	0.28	8.98	10.1? 1.16	8.94?
3	5.8 5.6	5.1	5.75	0 1	3.342	9.17	hoop 8.0 9.1 9.1	0.27	9.37		
4	6.3 6.1	6.5	6.40	1 1	3.334	9.74	9.35 0 1 9.4 9.3	0.26	9.61		
5		7.6			3.336	10.96	ms ms.	,	,		
6		7.8			3.338	11.18					
7		7.9			3.340	11.30					
8		8.4			3.349	11.89					
9		8.1			3.354	12.24					
10		8.1			3.354	12.24					
11		9.00 00 9.0	9.0		3.362	12.62					
12		9.20 0 0 9.2	9.2		3.366	12.86					
13		9.05 0 1 9.0	9.1		3.362	12.67					
14		9.45 0 1 9.4	9.5		3.372	13.17					
15		9.45 0 1 9.6	9.1		3.328	12.93					
16		10.05 10 10.1	10.0		3.389	13.94					

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1916phae.proj.10780

Thursday December 14, 1916. Sheet 53

Scale m. B Series 161.

B 4682.4 C8.

	sc.1	sc.2				sc.2
1						8.6 — 1.40
3						9.3 — 1.21
4	5.7					8.9 9.0 off centre. — 1.28
8	4.9	5.1	5.10	0	0	3.87 — 1.00 — 1.03
9	5.5 5.3	5.5	5.50	0	0	3.72
11	5.9 5.7	5.8	5.85	1	0	3.66
12	6.4 6.2	6.2	6.30	1	1	3.45
14	6.6 6.4	6.6	6.60	0	0	3.31
15	7.0 6.8	6.9	6.95	0	1	3.41
16	7.2 7.0	7.1	7.15	0	1	3.37
18	7.4	7.4				3.28
20a		7.1				3.52
21	7.9	7.9				3.52
		8.40	0	0		
22	8.4	8.4				3.42
		8.70	0	0		
25	8.1	8.1				3.56
		9.40	0	0		
26	9.4	9.4				3.33
		9.50	1	1		
27	9.6	9.4				3.81
		10.05	1	0		
28	10.1	10.0				3.81
29		m.s.				
30						
31						

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Thursday, December 14, 1916.

Scale m-

B Series 161.

B 46824 C 8-

g h

	sc.1	sc.2	sc.1	sc.2	
1	tfr.		7.1		0.10
3 &	7.7	7.75 10	7.8		0.34
4	tfr.		tfr.		.
8	8.7		tfr.		0.27
9	9.0		tfr.		0.22
11	9.4	9.35 01	9.3		0.16
12	9.5		tfr.		0.25
14	10.0	10.00 00	10.0		−0.03
15					
16					
18					
21					
22					
25					

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Thursday December 14, 1916.

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Scale m -

B series 161 -

Alt Corr +07

B 46825 131 K. 15 12 - 15 3

	pc.1	pc.2			Diffr. Inm. q	h			P.C. pc.2
1	B.	B.	.	.	8.35 1.0 8.3	8.7	0.30	8.65	9.6 — 1.19 8.41
2	6.0 5.8	6.1	6.05 0.1	3.38	9.38 9.65 1.0	9.6	0.25	9.90	n.s. ,
3	6.3 6.1	6.2	6.25 1.0	3.35	9.60 9.70 0.0	9.7	0.25	9.95	
4	6.7 6.5	6.8	6.75 1.0	3.31	10.06 10.1	7.	0.24	10.34	
5		7.5		3.34	10.84				
6		7.8		3.38	11.18				
7		8.5 8.15 2.1		3.50	12.00				
8		8.0	8.3 8.40 0.0	3.44	11.59				
9		8.4	8.4 8.50 0.0	3.49	11.89				
10		8.8	8.8 9.25 1.0	3.57	12.37				
11		9.3	9.21 9.40 0.0	3.67	12.92				
12		9.4	9.4	3.72	13.12				
13		7.	7.	.	.				
14									
15									

Orig. ref. plate missing. Marking of Mc plate used assumed to be correct. 8 is brighter than 7, and is brighter on several B plates which were examined.

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Thursday December 14, 1916.

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Salem.

B series 161 - Alt Corr +25

B 46826 Carte 15h - 31.5.

	pc.1	pc.2			g h			P.C. pc.2		
1	B.		.	.	sc.155 w.fr. th. 5.3	.		6.8	.	
2	B.		.	.	6.6 th.	0.40	7.20	8.4	− 1.18	7.22
3	B. 4.9	B.	.	.	sc.2 7.3 th.	0.35	7.65	8.9	− 1.20	7.70
4	4.7	5.1	5.00 0 1	3.54	8.54	8.2 8.2	0.30	8.50	9.1	− 1.19	8.51
5	5.6 5.8	5.1	5.75 0 1	3.42	9.17	9.1 8.8	0.28	9.23	M.S.	.	.
6	5.8 6.0	6.1	6.05 0 1	3.38	9.43	9.5 9.6	0.25	9.82			
7	6.6 6.8	6.8	6.80 0 0	3.30	10.10	10.0 th.	0.24	10.24			
8		7.3		3.32	10.62					
9		7.6		3.35	10.95					
10		8.0		3.41	11.41					
11		8.25 0 1 8.2 8.3		3.45	11.70					
12		8.55 0 1 8.6 8.5		3.51	12.06					
13		8.65 1 0 8.7 8.6		3.53	12.18					
14		9.15 0 1 9.2 9.1		3.65	12.80					
15		9.75 1 0 9.7 9.8		3.82	13.57					

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Thursday December 14, 1916.

Copied 44h 5m 68

Scale M-

B Series 161.

Alt Counts

B 4682 7 hour ρ Oph. 16 09 - 22.3

	pc.1	pc.2	Cu.		g pc.2	h pc.2			P.C. pc.2
	4.3				8.25 01				
1	4.1?		368	7.98	8.2 8.3	0.30	8.55		96 - 120 8.40
2	hp.		.	.	8.35 01				
	5.0				8.4 8.3	0.30	8.65		97 - 119 8.51
3	4.8	hp.	354	8.54	8.80 00				7. . .
	6.5								
4	6.3	6.3 6.40 1 1	334	9.74	10.00 00				
	6.7				10.0 10.0	0.24	10.24		
5	6.5	6.6 6.65 1 0	332	9.97	10.1? hp	0.24	10.34?		
6		7.1 hour	331	10.41?					
7		7.4	334	10.74					
8		7.6	335	10.95					
9		8.1	343	11.53					
10		8.2	345	11.65					
11		8.5	350	12.00					
		8.50 1 1							
12		8.6 8.4	350	12.00					
		8.80 00							
13		8.8 8.8	357	12.37					
		9.20 1 4							
14		9.1 9.3	365	12.85					
		9.20 1 4							
15		9.1 9.3	365	12.85					
		9.95 01							
16		10.0 9.9	387	13.82					

All images very much elongated -

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Thursday December 14, 1916.

Scale m -

B Series 161 -

B 4682 8 Vars. 16 10 - 23,8

	sc 1	sc 2			g sc 2	h			P.C. sc 2		
1	B.		.	.	6.2 (6.25 01)	6.3	.	.	8.0	.	
2	B.		.	.	f...	1.3 (8.10 00)	0.35	7.65	8.6	- 1.19	7.41
3	4.8 4.6	B	3.59	8.39	8.1	8.1	0.30	8.40	9.5	- 1.20	8.30
4	5.3 5.1	5.4	5.35 1.0	3.49	8.5 (8.55 1.0)	8.6	0.29	8.84	10.1	- 1.16	8.94?
5	6.0 5.8	6.0	6.00 00	3.38	9.4 (9.45 01)	9.5	0.25	9.70	mes.	.	.
6	6.5 6.3	6.5	6.50 00	3.33	9.9 (9.95 1.0)	10.0	0.24	10.19			
7	7.1 6.9	7.1	7.10 00	3.31	7	7	.	.			
8		7.6		3.36	10.96						
9		8.0		3.41	11.41						
10		8.4		3.49	11.89						
11		8.6 (8.55 01)	8.5	3.51	12.06						
12		8.8 (8.85 01)	8.9	3.58	12.43						
13		9.1 (9.05 1.0)	9.0	3.62	12.67						
14		9.1 (9.15 1.0)	9.2	3.65	12.80						
15		9.8 (9.90 1.0)	10.0	3.85	13.75						

11:10

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Monday December 18, 1916.

Copied B 34: 26

Salem.

B Series 145. Alt Corr +08

10 — B 46651 134 K. 18 11 - 15.

	sc.1	sc 2	sc 2			Diff Im. g	h			gc. sc 2	
1	B.			.	.	7.45 1.0 1.5	7.4	0.16	7.61	9.1 - 1.26	7.84
2	5.1 4.9	5.2	5.15	1.0	3.55	8.70	8.35 1.0 8.3	8.4	0.08	8.43	9.8 - 1.17	8.63
3	6.0 5.8	5.8	5.90	1.1	3.41	9.31	9.15 1.0 9.1	9.2	0.04	9.19	w.s.	.
4	6.5 6.3	6.5	6.50	0.0	3.30	9.80	9.45 0.1 9.4	9.5	0.02	9.47		
5	6.8 6.6	6.7	6.75	0.1	3.27	10.02	9.80 0.0 9.8	9.8	0.01	9.81		
6		7.5			3.21	10.61	4	7.	.	.		
7		7.3			3.22	10.52						
8		8.0			3.16	11.16						
9		7.8			3.18	10.98						
10		7.9			3.17	11.07						
11		8.1			3.13	11.83						
12		8.1 8.60 1.1	8.5		3.14	11.74						
13		9.0 9.00 0.0	9.0		3.13	12.13						
14		9.4 9.45 0.1	9.5		3.13	12.58						
15		9.4 9.45 0.1	9.5		3.13	12.58						
16		9.8 9.85 0.1	9.9		3.14	12.99						

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Monday December 18, 1916.

Copied ~~B 19:81 (Overflow)~~ B 34:121

Scale M. B Series 145. Alt Corr + 07

B46652 43 Ks 18h 13.

	RC1	RC2				sc2 g	sc2 h			P.C. sc2	
1	B.		.	,		6.1	6.1	0.30	6.40	7.8 − 1.32 [e]	6.48 [e]
2	B.	B.	.	,		tfr.	7.1	0.19	7.29	8.6 − 1.30	7.30
3	5.1 (5.3)	5.5	5.40	L1	3.50	8.90	8.2	8.4	0.08	8.38	ws. , ,
4	5.5 (5.7)	5.6	5.65	1 0	3.46	9.11	9.1	9.2	0.04	9.19	
5	6.5 (6.7)	6.8	6.75	L 0	3.27	10.02	9.9		0.01	9.91	
6		7.5			3.10	10.60	ws	ws.	,	,	
7		7.6			3.18	10.78					
8		8.1	8.1		3.15	11.25					
9		8.7	8.6		3.14	11.79					
10		8.8	8.9		3.13	11.98					
11		9.3	9.4		3.13	12.48					
12		10.1	10.1		3.14	13.24					
13											
14											
15											

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Monday December 18, 1916.

Copied B 34:122

Scale m

B Series 145.

Alt Corr +07

B 46653 44 KS 18h 33

	sc.1	sc.2			sc.2 q	sc.2 h			B6 sc.2		
1	B	B.	.	.	7.15 L0						
2	5.1 4.9	5.1	5.10 00	3.58	8.68	7.1 7.2 8.35 L0	8.3 8.4 9.15 L0	0.19 0.08	7.34 8.43	8.6 9.7	−1.30 −1.19	7.30 8.51
3	6.1 5.9	6.0	6.05 10	3.38	9.43	9.1 9.2 9.60 00		0.04	9.19	n.s.	.	.
4	66 6.4	6.6	6.60 00	3.29	9.89	9.6 9.6		002	9.62			
5		7.1		3.24	10.34	7 7		.	.			
6		7.8		3.18	10.98							
7a		8.0 9.1	9.1000	3.16	11.16							
8		8.7	8.7000	8.7 3.14	11.84							
9		9.4	9.3501	9.3 3.13	12.48							
10		9.7	9.7009	9.7 3.14	12.84							
11		9.8 7.		.	.							
12												
13												
14												
15												

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Monday December 18, 1916.

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Scale M. B Series 145. Alt Corr +07

B 46654 (45 KS. Rich Scat Sdw) 18 46

	pc1	pc2	Cu.		g pc2	h pc2			P.C. pc2		
1	B		.	.	tf.	tf.	.	.	7.1	.	.
2	B		.	.	tf.	tf.	.	.	8.4	−1.30	7.10
2a	4.3 (4.5)		3.72	8.22 ?	8.30 00 8.3	8.3	0.09	8.39	9.1	−1.19	8.51
3	3.9 (4.1)		3.82	7.92	tf.	7.8	0.12	7.92	9.2	−1.25	7.95
4	4.1 (4.9)	5.1	5.00 ± 1 3.60	8.60	8.25 01 8.2	8.3	0.09	8.34	9.6	−1.20	8.40
5	5.5 (5.7)	5.4	5.55 ± 2 3.48	9.03	8.60 00 8.6	8.6	0.06	8.66	n.s.	.	.
6	5.7 (5.9)	5.7	5.80 ± 1 3.42	9.22	9.10 00 9.1	9.1	0.04	9.14			
7	6.0 (6.2)	6.1	6.15 0 ± 3.35	9.50	9.35 ± 0 9.3	9.4	0.03	9.38			
7a	6.1 (6.9)	6.9	6.70 00 3.26	10.16	9.45 01 9.4	9.5	0.02	9.47			
7b		7.3	3.22	10.52	n.s.	n.s.	.	.			
8	6.2 (6.4)	6.2	6.30 ± 1 3.33	9.63	9.65 01 9.6	9.7	0.02	9.67			
9	6.6 (6.8)	6.8	6.80 00 3.26	10.06	?.	n.s.		.			
10		7.6	3.20	10.80							
11		7.7	3.19	10.89							
12		7.8	3.18	10.98							
13		7.9	3.17	11.07							
14		8.4	3.14	11.54							
15		8.4	3.14	11.54							
16		8.7 (8.70 00)	8.1 3.14	11.84							
17		8.8 (8.75 01)	8.7 3.13	11.88							
18		9.4 (9.30 1 ±)	9.2 3.13	12.43							
19		9.5 (9.50 00)	9.5 3.13	12.63							
20		9.8 (9.80 00)	9.8 3.14	12.94							
21			10.0 3.14	13.14							

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Monday December 18, 1916.

Scale m

B series 175.

B 46655 C 10. 19 + 15.

		rc 1	rc 2		P.C. rc 2
1	B			.	8.21 – 1.36
2	B			.	8.8 – 1.3 9
3	B			.	8.6 – 1.26
4	4.3 4.1			3.54	9.1 – 126
6	dbl.			.	. .
7	4.2 4.0	4.25 01	4.3	4.04	9.5 – 1.21
8	5.6 5.4	5.60 00	5.6	3.50	m.s. .
9	6.1 5.9	6.00 11	5.9	3.40	
11	6.9 6.7	6.95 10	7.0	3.09	
12			7.4	3.09	
13			7.7	3.03	
15			7.9	3.27	
16		8.45 01	8.4 8.5	3.07	
17		8.65 01	8.6 8.7	3.25	
18		9.20 00	9.2 9.2	3.15	
19		9.60 00	9.6 9.6	3.14	
20	scratched	9.80 00	9.8 9.8	3.07	
21			7. 7.		
22					
24					
25					
26					
27					
28					
29					

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Monday December 18, 1916.

Scale M. B Series 145.

B 46655 C10- Diffr. Inn.

9 h .

	pc.1	pc.2		pc	sc.2	
	6.5			6.6		
1	6.3	6.55	L0	6.4		0.29
2		tf.			7.4	0.01
3		tf.			7.*2	0.14
4		7.5			tf.	0.34
6		tf.			tf.	,
7		8.1	8.15	L0	8.2	0.14
8		tf.			8.9	0.20
9		9.6	9.60	0 0	9.6	-0.20
10		9.8	9.75	0.1	9.7	-0.06
11		7			7	,

11—

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Tuesday January 2, 1917.

Sheet-54

Scale m.

9:50

B Series 53.

B 4559 N

C11-

	sc 1	sc 2	Cu.	P.C. sc 2
1	B.		.	8.1 – 1.29
2	B.		.	8.2 – 1.12
3	B.		.	9.1 – 1.43
4	B. 40		.	9.3 – 1.39
5	3.8		4.30	9.8 – 1.50
6	B. 4.7	4.0	4.46	9.8 – 1.34
7	4.5 4.7	4.8	4.75 L 0 4.08	‡ .
8	4.5 5.1	4.9	4.80 L 1 4.23	
10	4.9 5.8	5.4	5.25 L 2 4.20	
12	5.6 6.3	6.0	5.90 L 1 3.95	
14	6.1 6.8	6.2	6.25 1 0 3.72	
15	6.6	6.8	6.80 0 0 3.60	
16		7.3	3.40	
17		7.6	~~3.42~~	
20	~~18~~	7.8	3.59	
23		8.4	3.46	
24		8.95 1 2 9.1	8.8 3.45	
25		9.00 1 1 9.1	8.9 3.57	
26		9.70 1 1 9.8	9.6 3.20	
27		9.75 0 1 9.8	9.7 3.39	
28		10.00 0 0 10.0	10.0 3.39	
29		‡?	‡ .	
30		‡?	.	

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Tuesday January 2. 1917

Scale m.

B Series 53.

	B 4559 q		C 11. q		Diff-lm.
	sc.1	sc.2	sc.1	sc.2	
1	tfr.		5.9 5.7		0.91
2	tf.		6.4 6.2		0.68
3	7.2		tfr.		0.47
4	tfr.		7.4		0.51
5	tfr.		7.7		0.60
6	tfr		7.7		0.76
7	tfr.		8.4		0.43
8	tfr.		8.5		0.53
10	9.2	9.15 01	9.1		0.30
12	9.9	9.85 10	9.8		0.00
14	tfr.		10.0		-0.03
15					
16					
17					
20					

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Tuesday January 2. 1917

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Scale m

B series 53. Alt Corr + 06

B 45597 16 3K. 23h 23m

P.C. see also next page.

	sc1	sc2	sc3	Cu.		sc2		
1	4.1 (49 50 48) 6.1	5251	505 1021	388	8.93	10.1?	− 1.38	8.72?
2	5.9	6.1	610 00	370	9.80	n.s.		
3	6.4 (66 70)	6.7	665 01	362	10.27			
4	6.8	7.1	705 01	360	10.65			
5		7.6		358	11.18			
6		7.6		358	11.18			
7		7.9		359	11.49			
8		8.0		360	11.60			
9		8.4		363	12.03			
10		8.6 (8.70 00)		364	12.24			
11		8.1 8.1 (8.90 00)		365	12.35			
12		8.9 8.9 (9.10 00)		366	12.56			
13		9.1 9.1 (9.45 01)		367	12.77			
14		9.4 9.5 (9.70 00)		369	13.14			
15		9.7 9.7		370	13.40			

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Tuesday January 2, 1917

Scale M. B Series 53-

B 45597 ~~Dec~~ 163 K cont. Diff. Im.

	g sc.1	g sc.2		h sc.1	h sc.2		
1	8.1	875	LO	8.8	040	9.15	
2	9.5	955	LO	9.6	0.28	9.83	
3	10.0	9.95	01	9.9	0.21	10.16	
4	10.0			9.	0.20	10.20	
5	ns.			ns.			
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

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Tuesday January 2. 1917.

Copied B 27:84

Scale m. B-Series 53 Alt Cou – 05

B 45598 D 11. 21 – 15°

	sc1	sc2			B.C		
					ps2		
1	.				8.4	– 1.27	7.13
2	.				8.9	– 1.34	7.56
3	.				t.p.	.	.
4	B.				8.8	– 1.33	7.47
5	3.8 3.6		4.12	7.92	9.2	– 1.39	7.81
6	B?		.	.	9.2	– 1.39	7.81
7	4.0 3.8		4.08	8.08	9.2	– 1.39	7.81
8	B.		.	.	9.3	– 1.40	7.90
9	4.0 3.8		4.08	8.08	9.6	– 1.40	8.20
10	4.2 4.0		4.03	8.23	9.7	– 1.40	8.20
11	4.5 4.3		3.95	8.45	∓?	.	.
12	4.7 4.5	B.	3.94	8.64	10.1	– 1.39	8.71
13	5.1 4.9	5.1	5 10 00	3.85	8.95		
14	5.7 5.5	5.7	5 70 00	3.76	9.46		
15	6.1 5.9	6.1	6 10 00	3.70	9.80		
16	6.1 5.9	6.1	6 10 00	3.70	9.80		
17	6.4 6.2	6.4	6 40 00	3.65	10.05		
18	6.6 6.4	6.6	6 60 00	3.62	10.22		
19	6.8 6.6	6.7	6 75 0 ±	3.61	10.36		
20	6.8 6.6	6.7	6 75 0 ±	3.61	10.36		
21	6.8 6.6	7.0	6 90 ± 1	3.60	10.50		
22	7.0 6.8	7.1	7 05 0 1	3.60	10.65		
23		7.4		3.58	10.98		
24		7.2		3.59	10.79		
25		7.5		3.58	11.08		
26		7.8		3.59	11.39		

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Tuesday January 2, 1917.

Scale m. B Series 53.

B 45598 D 11.

	sc.1	sc.2	sc.3		
27	8.1		3.60	11.70	
	805	1 0			
28	8.1	8.0	3.60	11.65	
	845	0 1			
29	8.4	8.5	3.63	12.08	
	8.50	0 0			
30	8.8	8.8	3.65	12.45	
	935	L 0			
31	9.3	9.4	3.69	13.04	
	930	0 0			
32	9.3	9.3	3.69	12.99	
	935	L 0			
33	9.3	9.4	3.69	13.04	
	945	1 0			
34	9.5	9.4	3.70	13.15	
	985	0 1			
35	9.8	9.9	3.71	13.56	
36					

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Tuesday January 2, 1917.

Scale m.

B Series 53

B45598 D11- 21 - 15° Diffr. Images.

	g pos	g sec	h pos	h sec		
1	tfr.		6.7 6.5		0.71	7.41
2	tfr.		tfr.		.	.
3	tfr.		tfr.		.	.
4	tfr.		7.2		0.63	7.83
5	tfr.		7.4		0.60	8.00
6	7.4	7.50 11	7.6		0.59	8.09
7	tfr.		7.5		0.59	8.09
8	tfr.		7.3		0.62	7.92
9	tfr.		7.9		0.53	8.43
10	8.1	8.10 00	8.1		0.50	8.60
11	8.5	8.40 11	8.3		0.47	8.87
12	8.4	8.45 01	8.5		0.46	8.91
13	tfr.		8.1		0.42	9.12
14	tfr.		9.1		0.34	9.44
15	9.5	9.45 10	9.4		0.30	9.75
16	9.6	9.60 00	9.6		0.26	9.86
17	10.0	10.00 00	10.0		0.20	10.20
18	4		4.		.	.
19	4		4		.	.
20						

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1910phae.proj.10780

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Scale M B Series 53. Alt Cor +02

B 45599 187 K. 23 47-450

	sc.1	sc.2		Cu.		g sc.2	h sc.2				Gc. sc.2
1	dfd.? 96	.		.	.	tf. 965	95? 01	dfd.?	0.28	9.78?	7.
2	63 40	6.6	6.55 1 0	3.63	10.18	9.6	9.1		0.26	9.91	
3	6.8	7.1	7.05 0 1	3.60	10.65	10.00 10.0	00 10.0		0.20	10.20	
4		7.4		3.58	10.98	ns.	ns.		.	.	
5		7.9		3.58	11.48						
6		8.0		3.60	11.60						
7		8.0		3.60	11.60						
8		8.4		3.63	1203						
9		8.4 875	1 0	3.63	1203						
10		8.7 905	8.8 0 1	3.65	1240						
11		9.0 945	9.1 0 1	3.67	12.72						
12		9.4 950	9.5 0 0	3.69	13.14						
13		9.5 990	9.5 0 0	3.70	13.20						
14		9.8	99	3.72	13.62						
15		7.	7.	.	.						

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1916phae.proj.10780

Tuesday January 2, 1917.

Scale m. B series 53. Alt Corr +.05

B 45600 DM 0 20 - 35.0

	pc.1	sc.2	sc.2			g sc.2	h sc.2			pc. sc.2		
1	4.1 3.9			4.06	8.16	8.15	8.1	0.58	8.65	9.2	-1.39	7.81
2	4.8 4.6	4.9	485 0 1	3.91	8.76	8.45	8.5	0.46	8.91	10.0	-1.39	8.61
3	5.6 5.4	5.5	555 0 1	3.79	9.34	8.5	8.4			ns.	.	.
4	5.8 5.6	5.7	575 0 1	3.75	9.50	9.10 00 9.1	9.1	0.34	9.44			
5	6.1 5.9	6.1	610 00	3.70	9.80	9.60 00 9.6	9.6	0.26	9.86			
6	6.6 6.4	6.6	660 00	3.62	10.22	9.90 00 9.9	9.9	0.22	10.12			
7		7.3		3.58	10.88	7	7.	.	.			
8		7.6		3.58	11.18	ns.	ns.	.	.			
9		7.8		3.59	11.39							
10		8.1		3.60	11.70							
11		8.40 00 8.4	8.4	3.63	12.03							
12		8.60 L1 8.5	8.7	3.64	12.24							
13		9.10 00 9.1	9.1	3.68	12.78							
14		9.50 00 9.5	9.5	3.70	13.20							
15		9.80 00 9.8	9.8	3.71	13.51							

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Tuesday January 2, 1917.

Scale m. B Series 53. Alt Corr – 0.1

B 45601 Dm. 0 40 – 52.0°

	sc.1	sc.2		Cu.		g sc.2	h sc.2			P.C. sc.2	
1	40 3.8			4.08	8.08	1.4	tfr.	0.60	8.00	9.1 – 1.38	7.72
2	5.9 4.8	5.0	5.00 00	3.88	8.88	tfr.	tfr.	,	,	↓ .	.
3	5.6 5.4	5.7	5.65 0.1	3.77	9.42	8.5	tfr.	0.45	8.95		
4	6.0 5.8	5.9	5.95 0.1	3.72	9.67	9.20 ± 1 9.1	9.3	0.32	9.52		
5	6.7 6.5	6.8	6.75 ∠0	3.61	10.36	9.55 ∠ 9.6 9.5	9.7	0.28	9.83		
6	7.1 6.9	7.1	7.10 00	3.59	10.69	↑	10.0	0.20	10.20		
7		7.5		3.58	11.08	ws.	ws.	,	,		
8		7.9		3.59	11.49						
9		7.9		3.59	11.49						
10		8.2		3.61	11.81						
11		8.4		3.63	12.03						
12		8.8 8.85 0.1	8.9	3.65	12.50						
13		9.2 9.15 0.1	9.1	3.68	12.83						
13a		9.2 9.15 0.1	9.1	3.68	12.83						
14		9.8 9.6000	9.6	3.70	13.30						
15		9.7 9.9000	9.9	3.72	13.62						

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Tuesday January 2, 1917.

Scale M. B Series 53.

B 45596 C 12.

	sc.1	sc.2		sc.2
1	B.		.	7.9 – 1.30
2	B.		.	8.2 – 1.21
3	B		.	8.5 – 1.22
4	3.8 3.6		3.76	8.9 – 1.34
5	4.1 3.9		3.74	9.2 – 1.36
6	4.4 4.2		3.82	9.6 – 1.38
8	tfr.		.	9.5 – 0.90
9	5.1 4.9	5.1	5.10 00 3.91	⅄ .
11	5.7 5.5	5.1	5.70 00 3.61	
12	5.7 5.5	5.1	5.70 00 3.91	
14	6.4 6.2	6.4	6.40 00 3.51	
16	6.9 6.1	6.8	6.85 10 3.53	
17	7.1 6.9	7.1	7.10 00 3.55	
18		7.6	3.70	
20		8.1	3.80	
21		8.3	3.93	
23		9.1	3.91	
24		9.5	3.94	
26		9.6	4.06	
27		10.1	3.91	
29		⅄.	,	
30		ms.	,	

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Tuesday January 2, 1917.

Scale M. B Series 53.

	B4559b g sc1	sc2		C12 h sc1	sc2	Differ. Inv.
1	tfr.			60 5.8		0.60
2	6.3	6.35	10		6.4	0.64
3	tfr.			6.4 6.2		0.88
4	tfr.			6.8 6.6		0.76
5	tfr.				7.3	0.54
6	tfr.				7.6	0.62
8	tfr.				tfr.	.
9	tfr.				tfr.	.
11	tfr.				8.9	0.41
12	tfr.				9.2	0.41
14	tfr.				9.6	0.31
16	tfr.				9.9	0.48
17	tfr.				tfr.	.
18						
20						

11·35

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Friday January 5. 1917. Copied B 34: 30

alt. + .08

Scale M 10:to Remeasures of B ~~B Series~~ sequences. Rel. Magns.

B 45569 13 8 K 22h 11m Diffs Dec. (See 018:10) P.C.

		sc 1	sc 2	Diff for magns 018.10	sc 2	sc 2		sc 2
Seq. set on B Plate.	01	B.			tf. 6.9			8.4 – 113
	02	4.7 (4.9)		385	tf. 8.1	0.80		9.6 – 050
	03	4.7 (4.9)	4.9	490 00 359	~~9.4~~ ~~9.5~~ 8.1			9.6 poor – 050
	04	5.6 (5.8)	5.5	565 2 1 370	8.6 tf. 860 00			1
	05	5.5 (5.7)	5.6	565 1 0 370	8.6 8.6 poor			1
	06	6.5 (6.7)	6.5	6.60 1 1 365	~~9.4~~ ~~9.4~~ 9.35 0 1			
	07	6.7 (6.9)	6.9	690 00 350	9.4 9.3 9.75 L 0			
	08		7.3	364	9.1 9.8 10.00 00	0.80		
	09		7.1	373	10.0 10.0	0.79		
	010		7.8 (8.10 00)	376	ns ns			
	011		8.1	8.1 394				
	012		8.4 (8.40 00)	8.4 426				
	013		8.8 (8.76 0 1)	8.7 440				
	014		9.1 (9.15 L 0)	9.2 400				
	015		9.7 (9.65 1 0)	9.6 465				
	~~016~~							
	0							

Orig. seq. for 13.8K ds shows on McPlate wrong unit	1	B (4.7)			Diff f. magns. 0 B 18:10 Jan 8, 1916 Av. Com. not used.		tf. 6.9			8.3 – 1.03
	2	4.5 (4.7)			4.05	3.79	8.49	5.15 L 0 8.1 8.2 945 0 1	0.75	9.5 poor – 1.40
	3	5.5 (5.8)	6.7	6.70 0 0	1.79	3.58	10.28	9.4 9.5 965 0 1		ns
	4	6.6 (6.8)	6.9	6.85 0 1	2.50	3.60	10.45	9.6 9.7		
	5		7.4		1.95	3.74	11.14	tf. 10.0		
	6		7.6		2.65	3.79	11.39	ns ns		
	7		7.9		2.50	3.88	11.78			
	8		8.3		2.64	4.01	12.31			
	9		8.4		3.03	4.06	12.46			

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1916phae.proj.10780

Friday January 5, 1917 -

Scale M. Remeasures - for relative mags.

B 45 569 138 K cont

10	8.8		2.76	4.21	13.01
	8.90	22			
11	9.1	8.7	3.14	4.24	13.14
	9.50	00			
12	9.5	9.5	3.16	4.45	13.95
	9.70	00			
13	9.7	9.7	3.45	4.52	14.22
	9.70	00			
14	9.7	9.7	3.75	4.52	1422
	9.90	00			
15	9.9	9.9	4.40	4.58	14.48
~~16~~					
17					
18					

later sq.
Orig = selected on B pl. (by mistake)

1 = 1

2 = 3

4 = 7

7 = 10

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Friday January 5, 1917

Scale m. Remeasures of Kapteyn Region 138. Alt. +0.7

B 45593 138 K. 12h (See 023:149)

	sc.1	sc.2	sc.2	Diff. of magn. 023:149
	3.8			
01	3.6			
	5.1			
02	4.9			3.90
	5.2			
03	5.0	5.5	5.35	2.509
	6.0			
04	5.8	6.1	6.05	01.482
	6.0			
05	5.8	6.1	6.05	01.525
	6.8			
06	6.6	6.7	6.75	01.405
	7.0			
07	6.8	7.2	7.10	L1.450
08		7.5		4.60
09		7.7		4.71
010		8.0		4.66
		8.10	0.0	
011		8.1	8.1	4.98
		8.45	1.0	
012		8.5	8.7	5.36
		9.00	02.03	
013		9.2	8.8	
		9.30	L1	
014		9.2	9.7	
		10.00	0.0	
015		10.0	10.0	

sc.2	g	h	P.C.
	tf.	7.1	
8.6	tf.	8.2	
	8.35	01	
7.	8.7	8.3	
	9.15	1.0	
	9.1	9.2	
	9.20	0.0	
	9.2	9.2	
	9.75	L0	
	9.7	9.8	
	tf.	10.0	

Orig Inc Sequence 138 K

1	B					g	h		sc.2
	5.1	5.20	L1			tf.	6.9	1.38 0.58	8.5 − 0.31 − 1.18
2	4.9	5.3			3.80	tf	8.2	0.59 0.82	4.
	6.7	6.80	L1						
3	6.5	6.9		3.10	3.64	tf.	9.9	0.04	
4		7.1		3.03	3.77	tf.	9.9	0.08	
5		7.5		3.09	3.80	n.s.	n.s.		
6		7.6		3.50	3.80				
7		8.1		3.30	3.50				
8		8.4		3.00	3.70				
9		8.8		2.90	3.61				

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Friday January 5, 1917.

Scale m. Remeasures cont.

B45593 138K cont.

	sc 7	sc 7		
	900 11			
10	9.1	8.9	2.95	3.66
	930 11			
11	9.4	9.2	2.80	3.78
	985 01			
12	9.8	9.9	2.81	3.96
13	½	½	,	,
14	n.s.	n.s.	,	,
15	n.s.		,	,

Remeasured by mistake. Correct sequence measured ~~1st at original~~ first time. Remeasures unnecessary.

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1916phae.proj.10780

Saturday January 6, 1917.

Comet B 34:29

Scale M. Remeasures of K sequence. Alt. +08

10:30- B 45564 137K. 21h 11m (See 017.78)

Seq. selected on B plate. (by micrate)

Diff fr Mag. 017.78 with cor. for alt.

	pc.1	pc.2			Diff Inn. q	k	P.C. pc.2
01	B.				th. 7.2	0.72	8.6 -0.70
02	4.9 5.1	5.1	5.10 00	3.97	th. 7.89	0.59	9.2 -0.60
03	5.6 5.8	5.8	5.80 00	3.94	th. 8.6	0.84	7. .
04	6.1 6.63	6.3	6.30 00	3.87	9.1 9.1	0.89	
05	6.4 6.6	6.6	6.60 00	3.84	9.35 01 94 93	0.81	
06		7.4		3.81	7 10.0 .		
07		7.4		3.93			
08		7.7		3.95			
09		7.8		3.85			
010		8.1		3.45			
011		8.55 01 8.6	8.5	4.04			
012		8.40 1 1 8.3	8.5	3.91			
013		8.80 1 1 8.9	8.7	4.13			
014		9.15 0 1 9.2	9.1	4.05			
015		9.30 1 1 9.2	9.4	4.05			

Correct seq. for 137K (from ma 6669)

~~Diff fr Magnes. 017.78 f Jan 8, 1917~~ Calc. subsequently

							q	k			
1	4.9 5.1	5.1	5.10 00	3.92	4.00	9.10	th	7.7	0.22	0.70	8.40
2	5.6 5.8	5.8	5.80 00	3.97	3.92	9.72	th	8.1	-0.21	0.79	9.49
3	6.2 6.4	6.4	6.40 00	3.34	3.87	10.27	th	9.1	0.34	0.84	9.94
4	~~6.8~~	7.1		3.07	3.85	10.95	th	9.5	0.49	0.89	10.39
5		7.3		3.14	3.85	11.15	9.65 10 9.7	9.6	0.51	0.90	10.58
6		7.9		3.31	3.89	11.79	7	7. .			
7		8.1		3.23	3.93	12.03					
8		8.1		3.55	3.93	12.03					
9		8.4		3.25	3.98	12.38					
10		9.1		2.45	4.05	13.15					

	P.C. pc.2		
	9.2	-0.60	8.60
	ns.		.

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Saturday January 6, 1917.

Scale M. Remeasures cont.

B 45564 137 K cont

*11	n.s.		.		
12	9.5	2.81	4.09	13.59	
13	th.	.	.	.	
14	9.5 th	3.70	4.09	13.59	
15	10.1	3.25	.	.	
~~16~~					
17					

* 11 is not reew. Is it a raw?

11.05

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Tuesday January 9. 1917.

Copied B 27: 44

Scale m. 9:52

B Series 119.

Alt Corr +07

B 46399 D6.

		sc.1	sc.2	Cw.		sc.
	1	B. (tf. also)		.		m.s.
	2	tf.		.		m.s.
3.9	3	3.7		.		
4.3	4	4.1		.		
4.7	5	4.5	4.7	4.70 0 0	2.97	7.67
4.9	6	4.7	5.1	5.00 L 1	2.81	7.81
4.7	7	4.5	4.8	4.75 L 0	2.93	7.68
5.4	8	5.2	5.5	5.45 0 1	2.62	8.07
5.1	9	4.9	5.2	5.15 L 0	2.73	7.88
5.8	10	5.6	5.6	5.70 1 1	2.52	8.22
5.8	11	5.6	5.6	5.70 1 1	2.52	8.22
5.9	12	5.7	5.9	5.90 0 0	2.45	8.35
6.3	13	6.1	6.3	6.30 0 0	2.30	8.60
6.4	14	6.2	6.3	6.35 0 1	2.29	8.64
6.4	15	6.2	6.5	6.45 0 1	2.27	8.72
7.0	16	6.8	7.0	7.00 0 0	2.19	9.19
	17		7.4		2.18	9.58
	18		7.6 ~~7.4~~		2.18	9.78
	19		8.1		2.20	10.30
	20		8.2		2.21	10.41
	21		8.4		2.22	10.62
	22		8.8		2.27	11.07
	23		9.2		2.32	11.52
			9.35 0 1			
	24		9.4	9.3	2.34	11.69
			9.45 0 1			
	25		9.4	9.5	2.38	11.83
			9.45 0 1			
	26		9.4	9.5	2.38	11.83

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1916phae.proj.10780

Tuesday January 9, 1917.

Scale m

B Series 119.

B 46399 D6-

sc 7

		sc 7	sc 7		
7		96.5	01		
27		96	97	2.41	12.06
28		100.00	00	2.52	12.52
29		4		.	.
30					
31					

No plate in Series shows faint stars.
One pair companions.

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1916phae.proj.10780

Tuesday January 9. 1917.

Copied B 27:44

Scale M.

B Series 119.

B 46 399 D6 11h.

	g sc.1	sc.2	t sc.1	sc.2		
1	tfr.		9.6		.	
2	tfr.		tfr.		.	
3	8.1		tfr.		-.067	7.43
4	8.2		tfr.		-.069	7.51
5	8.6	8.65 01	8.7		-.078	7.87
6	8.7	8.70 00	8.7		-.079	7.91
7	8.7	8.65 10	8.6		-.078	7.87
8	9.1		tfr.		-.084	8.26
9	9.1		tfr.		-.084	8.26
10	9.5	9.45 10	9.4		-.088	8.57
11	9.5	9.55 10	9.6		-.088	8.67
12	9.6	9.60 00	9.6		-.088	8.72
13	‡		‡		.	.
14						
15						
16						
17						
18						
19						
20						

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Tuesday January 9, 1917.

Copied B 34:19

Scale m

B series 119.

Alt Corr + 07

B 46 4/8 00 127 K.

	sc 1	sc 2	sc 2			g h sc 2	g h sc 2		A c sc 2
	7.0								
1	6.8	7.1	7.05 0 1	2.18	9.23	+ 10.0	− 0.80	9.20	m.s.
2	7.1 6.9	7.1	7.10 0 0	2.18	9.28	m.s.	m.s.	.	m.s.
3		7.9		2.19	10.09				
			8.40 0 0						
4		8.4	8.4	2.22	10.62				
			8.75 1 0						
5		8.7	8.8	2.26	11.01				
			9.10 0 0						
6		9.1	9.1	2.30	11.40				
			9.70 0 0						
7		9.1	9.1	2.39	12.09				
			9.95 1 0						
8		9.9	10.0	2.51	12.46				
9		1.	1.	.	,				
10									
11									
12									
13									
14									
15									

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Tuesday January 9, 1917. Copied B 34:43

Scale m.

B Series 119. Alt Corr +05

B 4604 01 151 K 11 01 - 30.4

	sc.1	sc.7	sc.7			sc.7	sc.7			sc.
	5.7					9.50 00				sc.7
1	5.5	5.5	5.60 1	2.56	8.16	9.5	9.5	- 0.88	8.62	n.s.
2	6.1 5.9	6.0	6.05 1	02.40	8.45	9.55 1 0 9.5	9.6	- 0.88	8.67	
3		7.21		2.18	9.38	10.0	1.	- 0.80	9.20	
4		7.6		2.18	9.78	n.s.	n.s.	.	.	
5		7.9		2.19	10.09					
6		8.8		2.26	11.06					
7		8.8		2.26	11.06					
8		9.1		2.30	11.40					
9		9.4	poor	2.35	11.75					
		9.80 00								
10		9.8	9.8	24.6	12.26					
		9.75 01								
11		9.8	9.7	2.44	12.19					
		9.60 00								
12		9.6	9.6	2.40	12.00					
		10.05 01								
13		10.0	10.1	2.53	12.58					
14		1.	1.	.	.					
15			n.s.	.	.					

Carte 11h - 31.5 Copied B 35:112

	5.4					9 h				
						8.80 00				
1	5.2	5.3	5.35 01	2.64	7.99	8.8	8.8	- 0.80	8.00	n.s.
2	5.8 5.6	5.7	5.75 01	2.49	8.24	8.8	1.	- 0.80	8.00	
3	7.1 6.9	7.1	7.10 00	2.18	9.28	9.9	1.	- 0.84	9.06	
4		7.3		2.18	9.48	n.s.	n.s.	.	.	
5		7.6		2.18	9.78					
6		8.1		2.20	10.30					
7		8.5		2.23	10.73					
8		8.5		2.23	10.73			sc.7		
		8.85 01						10.00 00		
9		8.8	8.9	2.28	11.13	13	10.0	100	2.52	12.52
		9.10 00				14	1.	1.	.	.
10		9.1	9.1	2.30	11.40	15	n.s.	n.s.	.	.
		9.35 10								
11		9.3	9.4	2.34	11.69					
12		9.40	09.4	2.35	11.75					

All images on plate are poor.

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Tuesday January 9. 1917. Copied B 34:67

Scale m. B Series 119. Alt Con + 01

B 46402 175 K. 11 38

9 h

	sc 1	sc 2	sc 2			sc 2	sc 2		sc 2
	5.2					9.20 00			
1	50	5.3	5.25 01	2.71	7.96	9.2	9.2	-.986 8.34	M.S.
	6.6								
2	6.4	6.8	6.70	2.22	8.92	7	7		
3		8.1		2.20	10.30				
4		8.9		2.28	11.18				
5		9.1		2.30	11.40				
		9.20 00							
6		9.2	9.2	2.32	11.52				
		9.40 00							
7		9.4	9.4	2.35	11.75				
		9.70 00							
8		9.7	9.7	2.43	12.13				
		10.10 00							
9		10.1	10.1	2.53	12.63				
10		M.S.	M.S.						
11									
12									
13									
14									
15									

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Shut 56

Tuesday January 9, 1917.

Scale m.

B Series 119.

B46404 C7.

PC.

sc?

us.

1	tfr. 5.4				
2	5.2 6.0	tfr.			2.31
3	5.8 6.1	6.1	6.05	0 1	2.06
4	5.9 6.6	6.1	6.10	0 0	2.10
5	6.4 7.0	6.6	6.60	0 0	1.96
6	6.8	7.1	7.05	0 1	1.89
7		7.3			1.90
8		7.8			1.80
9		7.9			1.91
11		8.3			1.81
12		8.4			1.96
13		8.7 9.10		1 1	1.96
15		9.0 9.15	9.2	1 0	1.89
16		9.1 9.50	9.2	0 0	2.08
17		9.5 9.65	9.5	2 1	2.06
19		9.8	9.5	?	2.36
20		?.	?.		.
21					
22					
23					
24					
25					

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Tuesday January 9, 1917.

Scale m

B Series 119.

B 46404 C 7 Diff Inn.

	g sec.	sec.	h sec.	sec.	
1	tf.		tf.		77
2	tf.		tf. 8.6?		-0.89 -.089
3	tf.		9.2		-0.87 -.109
4	9.4	9.40 00	9.4		-0.87 -.120
5	9.8	9.70 12	9.6		-0.87 -.114
6	10.0		tf.		-0.86 -.106
7	↑		↑		
8					
9					
11					
12					
13					
15					
16					
17					

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Tuesday, January 9, 1917.

Copied B 27:52

Scale m.

B Series 119.

Alt Corr +06

B 46405 D7.

G.C.

	sc.1	sc.2		Cu.		sc.2
1	4.8 4.6			2.92	7.72	us?
2	5.0 4.8			2.81	7.81	
3	th.	th.		.	.	
4	5.5 5.3	5.5	5.50 00	2.60	8.10	
5	5.1 4.9	5.2	5.15 L0	2.73	7.88	
6	5.5 5.3	5.6	5.55 L0	2.58	8.13	
7	th.	th.		.	.	
8	th.	th.		.	.	
9	th.	6.5		2.26	8.76	
10	6.6 6.4	6.5	6.55 01	2.24	8.79	
11	6.7 6.5	6.9	6.80 L1	2.20	9.00	
12		7.3		2.18	9.48	
13		7.6		2.18	9.78	
14		7.6		2.18	9.78	
15		7.7		2.18	9.88	
16		7.7		2.18	9.88	
17		8.1	8.10 00 8.1	2.20	10.30	
18		8.6	8.60 00 8.6	2.24	10.84	
19		8.9	8.80 L1 8.9	2.26	11.06	
20		9.4	9.40 00 9.4	2.36	11.76	
21		9.5	9.52 00 9.5	2.39	11.89	
22		9.6	9.55 L0 9.5	2.40	11.95	
23		⁋	⁋	.	.	
24						
25						
26						

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Tuesday, January 9, 1917.

Scale m. B Series 119.

B 46405 D7-

sc 7

27
28
29
30
31

Plate does not show faint stars and no companions seen.

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1916phae.proj.10780

Tuesday January 9, 1917.

Salem.

B Series 119.

B46405 Dy - Diffr. Sun.

	9 sc.1	9 sc.2	h sc.1	h sc.2		
1	tfr.		tfr.		.	.
2	tfr.		tfr.		.	.
3	tfr.		tfr.		.	.
4	9.1	9.15 L0	9.2l		-0.86	8.29
5	9.2l	9.15 0L	9.1		-0.86	8.29
6	tfr.		8.8? tfr.		.	.
7	tfr.		9.4		-0.87	8.53
8	tfr.		9.4		-0.87	8.53
9	9.6	9.65 01	9.7		-0.88	8.77
10	9.6	9.65 01	9.7		-0.88	8.77
11	10.0		9.		-0.80	9.20
12	ws.		ws.		.	.
13						
14						
15						
16						
17						
18						
19						
20						

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1916phae.proj.10780

Tuesday January 9, 1917. Copied B 34: 44

Scale m. B Series 119. Att Com +os

B 46406 152K- 12 2b-

Diffr. Inn. G.C.

	sc.1	sc.2	sc.2			q	h			sc.2
	4.2	4.30 L1				8.60 00				
1	4.0		4.4	.	.	8.6	8.6	-0.77	7.83	n.s.
2		7.1		2.18	9.28	n.s.	n.s.	.	.	
3		7.6		2.18	9.78					
4		8.1		2.20	10.30					
5		8.6		2.24	10.84					
6		8.9		2.28	11.18					
		8.90 00								
7		8.9	8.9	2.28	11.18					
		9.35 L0								
8		9.3	9.4	2.35	11.70					
		9.50 00								
9		9.5	9.5	2.39	11.89					
10		f.?	9.9?	2.49	12.39?					
11		f/..	10.1?	2.53	12.63?					
12		f.	f.	.	.					
only trace 13		~~f.~~ ?		.	.					
14										
15										

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Sheet 56

Tuesday January 9. 1917.

Scale m. B Series 119-

B 46409 07.

Pc.

	sc.1	sc.2	Diff	sc.2
1	tk.		.	ms.
2	5.1 4.9?		261	
3	5.4 5.2		271	
4	5.1 4.9	5.1	5.10 00 310	
5	5.8 5.6	5.8	5.80 00 336	
6	6.1 5.9	6.2	6.15 10 279	
7	6.8 6.6	6.8	6.80 00 240	
8		7.1	250	
9		7.5	231	
10				
11		7.1	241	
12		7.9	246	
13		8.1	256	
15		8.5	249	
		8.60 00		
16		8.6 8.6	263	
		9.10 00		
17		9.1 9.1	246	
		9.65 01		
19		9.6 9.1	236	
		9.65 01		
20		9.6 9.1	261	
21		1. 1	.	
22		ms. ms.	.	
23				
24				
25				

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Tuesday, January 9, 1917.

Scale m-

B Series 119.

B 46409 C7 - Diffr. Im.

9 d

	sc.1	sc.2	sc.1	sc.2	
1	tf.		tf-		.
2	tf.		8.1? v.f.		-0.39
3	8.1	8.70 00	8.1		-0.59
4	8.9	8.85 10	8.8		-0.65
5	9.4	9.40 00	9.4		-0.84
6	9.5	9.55 10	9.6		-0.61
7	tf.		9.6		-0.40
8	f		f.		.
9					
~~10~~					
11					
12					
13					

11: 45

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Shutter 56

Thursday January 11, 1917.

Scale m

B Series 124.

9:25 . B 46453 C8.

				P.C.
	Rc.1	Rc.2		Rc.2
1	B. 48		.	8.6 – 1.40
3	4.6		3.29	9.3 – 1.21
4	B.		.	8.8 – 1.08
from. 6a	46 4.4?		4.19	9.6 – 0.81
8	5.1 4.9		3.87	10.1 – 1.13
9	53 5.1	5.21	5.25 1 0 3.97	n.s.
11	60 5.8	5.9	5.85 2 1 3.66	
12	61 5.9	6.21	6.15 1 0 3.60	
14	65 6.3	6.4	6.45 1 0 3.52	
15	68 6.6	6.8	6.80 0 0 3.56	
16	68 6.6	6.8	6.80 0 0 3.72	
18		7.21		3.48
20a		7.6		3.62
21		7.7		3.72
22		8.1		3.72
		8.70 1 1		
25		8.8 86		3.56
25a		9.1 9.1		3.57
26		9.1 9.1		3.63
		9.40 1 1		
27		9.5 9.3		3.91
		10.05 1 0		
28		10.1 10.0		3.81
29		1.		
30		n.s.		

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Thursday, January 11, 1917

Scale m. B Series 124.

B 4653 C8.

	f sc 1	f sc 2	h sc 1	h sc 2	
1	tf.		6.8		0.40
3	tf.		tf.		.
4	tf.		tf.		.
6a	tf.		tf.		.
8	8.6		tf.		0.37
9	8.9		tf.		0.07
~~10~~					
11	tf.		9.3		0.21
12	9.6	9.65 0.1	9.7		0.10
14	9.8	9.85 0.1	9.9		0.12
15	↓		↓		.
16					
18					

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Thursday January 11. 1917

Copied B 34. 24

Scalin-

B Series 124 -

Alt Corr to 08

B 46454 132 K. 16h 12m -

	sc.1	sc.2		Cu		g h sc.2				P.C sc.2	
1	32 3.0 bk.			352	6.72 E	6.80 1 1 6.7	6.9	0.53	7.33	8.4 - 1.14	7.26
2	35 3.3	B.		354	7.04 E	7.15 0 1 7.2	7.1	0.49	7.64	8.6 - 1.13	7.47
3	43 4.1	4.1	4.20 1 1	360	7.80	7.8 tr.		0.42	8.22	9.3 - 1.08	8.22
4	61 5.9	5.8	5.95 1 2	362	9.57	9.45 0 1 9.4	9.5	0.26	9.71	m.s. .	.
5	66 6.4	6.5	6.55 0 1	360	10.15	9.8 tr.		0.23	10.03		
6	67 6.5	6.8	6.75 1 0	360	10.35	9.9 tr.		0.23	10.13		
7		7.8		364	11.44	m.s. m.s.		,	,		
8		7.9		365	11.55						
9		8.0		366	11.66						
10		8.4		370	12.10						
11		8.6		373	12.33						
12		9.3	9.25 1 0 9.21	382	13.07						
13		9.5	9.40 1 1 9.3	385	13.25						
14		9.5	9.50 0 0 9.5	386	13.36						
15		9.9 poor	9.85 1 0 9.8	391	13.76						
16		9.9 poor	9.90 0 0 9.9	394	13.84						

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Thursday January 11. 1917.

Copied B 34.48

Scale m B Series 124. Alt Corr + 06

B 46455 156 K 16h 24.

	sc 1	sc 2	sc 7			g	h			P.C. sc 7	
	4.9					8.35	01				
1	4.1	5.1	500	1 1	362	8.62	8.4	8.3	0.38	8.73	9.8 – 1.04	8.76
	5.8					9.20	00				
2	5.6	5.1	575	01	363	9.38	9.2	9.2	0.29	9.49	n.s. ,	,
	6.1										
3	5.9	5.9	6.00	1 1	362	9.62	9.5	tf.	0.25	9.75		
	6.2					9.85	01					
4	6.0	6.3	6.25	01	361	9.86	9.8	9.9	0.23	10.08		
	6.7											
5	6.5	6.1	6.70	00	360	10.30	n.s.	n.s.	,	,		
	7.1											
6	6.9	7.1	7.10	00	360	10.70						
7		7.9			365	11.55						
8		7.9			365	11.55						
9		8.3			370	12.00						
10		8.4			370	12.10						
		8.80	1 1									
11		8.1	8.9		375	12.55						
		9.15	1 0									
12		9.1	9.2		381	12.96						
		9.30	1 1									
13		9.4	9.2		382	13.12						
		9.55	1 0									
14		9.5	9.6		386	13.46						
15		n.s.	n.s.		,	,						

B 46456. -180 K. "Hab. Region too far from centre. Not to be measured in Series" – See note on cover. Per H.S.L.

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Thursday January 11, 1917.

Sheet 56

Iodem-

B Series 124-

B 46458 Cg. 17 + 15

	sc.1	sc.2	sc.2			g h sc.2	sc.2		P.E. sc.2	
	3.6									
3	3.4			4.49	3.44	th.	6.5	0.54	8.21	−1.16
4	3.9			3.62	3.72	th.	7.3	0.52	8.8	−0.98
	4.3					4.55	1.0			
5	4.1			3.62	3.76	1.5	1.6	0.51	9.4	−1.34
	4.8									
6	4.6									
	5.0			3.31	3.67	th.	1.9	0.57	9.5	−1.03
6a	4.8					1.	6.4	0.24	9.8	−1.16
	5.4					8.75	6.4			
7	5.2	5.5	5.45 0.1	3.79	3.64	8.8	8.7	0.29	~s.	.
	6.0					9.1000				
8	5.8	5.1	5.85 2.1	3.36	3.59	9.1	9.1	0.43	n.s.	.
	5.8									
8a	5.6	5.8	5.80 0.0		3.68					
	6.8				3.88	th.	9.1			
9	6.8	6.5	6.50 0.0	2.72	3.59	9.95	9.1	0.58		
	7.0					10.0	9.9	0.14		
12	6.8	6.9	6.95 0.1	2.80	3.62	n.s	~s.	.		
14		7.2		2.77	3.59					
15		7.1		2.66	3.43					
16		7.9		3.70						
17		8.2		3.63						
18		8.6		3.81						
		9.10	0.0							
20		9.1	9.1	3.66						
		9.15	1.0							
21		9.1	9.2	3.91						
		9.45	1.0							
22		9.5	9.4	3.95						
		9.75	0.1							
23		9.8	9.1	3.99						
		9.90	0.0							
24		9.1	9.9	4.03						
25		1.	1.	.						
27		n.s.	n.s.	.						
28										

10:15

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