

2015/05/22

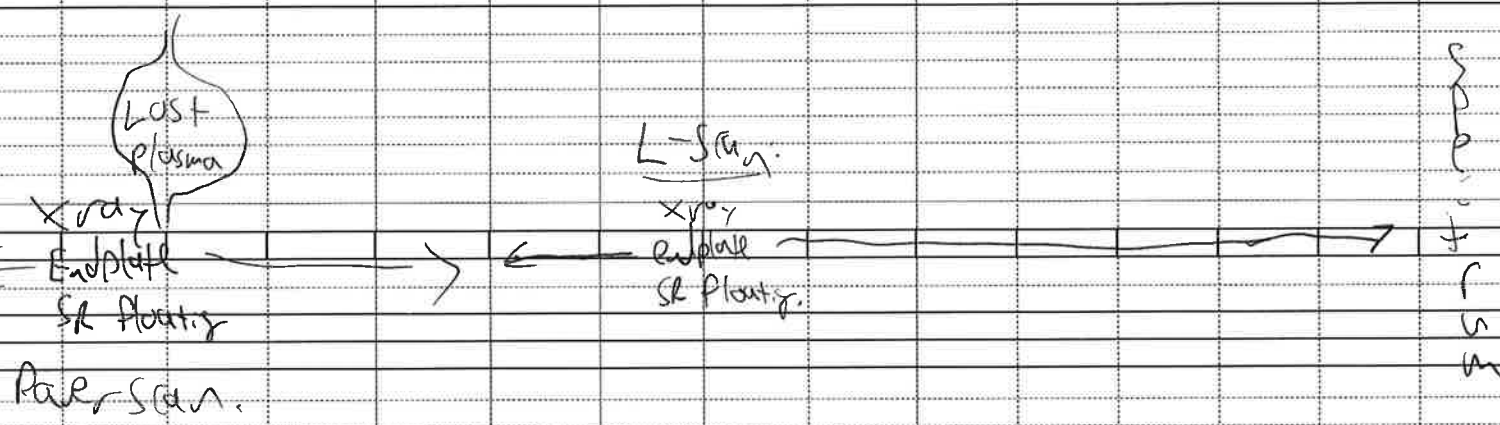
- H_2 only
- Helicon only
- Helicon Power Scan
- h_2 Current Scan
- Instruments:
 - Probes
 - X-ray
 - Vant & V back

1. The first part of the document is a letter from the President of the United States to the Congress, dated January 1, 1861. It is a copy of the original letter, and is signed by Abraham Lincoln.

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	Date:																	
2	Run description:			FRC/RMFO														
3	Base pressures: Main IG (T)																	
4	ER IG (T)																	
5	Satellite IG (T)																	
6	Main chamber Baratron (T)																	
7	Expansion region Baratron (T)																	
8	Antennas/delay lines			2-turn, RG-217, 15" long														
9	RMF frequency & phase																	
10	Magnet configuration & PS			4x8 + 8x4 coils; RR PS; eight BN-covered FCs	Recentered 4-turn MC coil													
11	RMF system			SRS-> duty factor limiter -> AR100LM9 -> 2KD -> four 8K Ultras														
12	Wall Time			10:10	10:13	10:17	10:21	10:21	10:26	10:25	11:31	11:33	11:35	11:37	11:41	11:43	11:46	11:50
13	Main magnets I (A)								133	117	102	87	72	57	62	66	41	92
14	Nozzle coils I (A)								293									297
15	MC IG (T)																	
16	MC Slow Baratron (T)			.0079	.0079	.0079	.0079	.0079	.0079	.0079	.0079	.0079	.0080	.0080	.0080	.0080	.0080	.0078
17	MC FB (T)			.45	.48	.36	.36	.34	.27	.25	.24	.25	.29	.33	.32	.30	.36	.24
18	ER IG (T)																	
19	ER slow Baratron (T)			.375	.374	.370	.367	.369	.370	.371	.372	.368	.368	.371	.369	.368	.369	.366
20	ER FB (T)																	
21	Satellite IG (T)			1.8e-5	1.8e-5	1.8e-5	1.8e-5	1.8e-5	1.9e-5	1.9e-5	1.9e-5	1.8e-5	1.8e-5	1.8e-5	1.8e-5	1.8e-5	1.8e-5	1.8e-5
22	Satellite FB (T)																	
23	Bias voltage: paddle																	
24	Main valve																	
25	Navigator valve																	
26	End turbo valve																	
27	Gases/feed location/scm																	
28	PV-10 (V)																	
29	Pulse			A to/Δ														
30				B to/Δ														
31				C to/Δ														
32	Diagnostics			LeCroy time														
33	Spectr			PM Tube (V)														
34	Wavelength			Port/LOS														
35	170 GHz			dia (mV)/IM freq														
36	X-ray			Amptek														
37	RMFO system			main SRS														
38				Pulse width (ms)/ rep rate (Hz)														
39				Frequency: Center(MHz)/Span(KHz)														
40				Pa														
41				Pr/% refl														
42				ΦM														
43				Satellite probe														
44				ER Probe														
45				Pf/Pr	99/0	50/3	290/20	350/21	400/28	310/18	320/18	321/19	327/28	338/32	345/69	340/58	347/44	375/80
46	Helicon (SRS/Power/%mod)				100	.068	.177	.192	.206	.189	.189	.188	.188	.197	.194	.194	.191	.202
47	Comments/changes:			for Δφ = π/2, n _e = 2.1e12 cm ⁻³														sheet 2 of 40



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[illegible]

