Test Number	#1									
Participants	Brad Carr, Eva Smith, Danial Ciraula; Justin Bowen; Chau Ha; Tessa Ray-Cozzens; Matthew									
•	Elliot; Ye Zhang									
Location	Blair Wallis road (FS 705); Buford, Wyoming									
Name	BW7 constant-rate pumping test									
Weather	High: 60F; low 40F; Cloudy in the am; afternoon thunderstorm with strong wind; given this time of the									
condition	year and historical WL monitoring data, infiltration of rain to the water table is likely insignificant due									
	to low soil moisture content and high ET in the overlying unsaturated zone.									
Discharge point	Into the wetland north of the well field. Next & future test will send water to wetland									
	downstream from BW4, which was not in communication with BW7 during the 2017 44-hr									
	test.									
WL 1-day prior	Stephanie will send data this week.									
(Stephanie)										
WL before test	Pumping Test 09/11/19. Weather: Cloudy									
(Chau Ha)	DTW Before PumpingTest									
	Well Time DTW Note									
	1 9:51 14.11 From top of metal casing, at red marker									
	6 10:04 14.555 From top of metal casing, at red marker									
	7 9:42 12.84 From top of the blue casing. No marker									
	8 10:12 14.1 From top of metal casing, at red marker									
	9 10:17 13.6 From top of metal casing, at red marker									
Start time of test	9/11/2019; 11:16:40									
Target rate	5~6 gpm; Next & future test on BW7 will target at 3 gpm.									
Duration	5 hours									
Purpose	Dewatering the unconfined fractured rock to create a large cone of de-saturation;									
	Seismic and ERT surveys to monitor & detect saturation change;									
	Determine connection between fractured bedrock & Blair Creek streamflow;  Only 1, 6, 7, 0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,									
	• Collect drawdown data among BW 1, 6, 7, 8, 9 to determine the strength of inter-well connectivity with BW7.									
Flow Rate (gpm)	Wellhead flow valve rule: use small step (<1/10 of a full turn); turn right to constrict the flow ("righty")									
Daniel Ciraula &	tighty"); turn left to increase flow.									
<b>Justin Bowen</b>										
	Next time, please write down both elapsed time (using a stopwatch) & the absolute time:									
	Bucket test: min:sec (elapsed time since start of test) – Daniel									
D 41 011	"Time to fill" bucket TIME FLOW RATE (gpm)									
Both 8-gallone graded bucket and	7-8:05 11:24 7.9 15-16:28 11:42 5.5									
inline flowmeter	30-31:36 11:47 5.0									
used;	60-61:52 12:17 4.3									
,	64-65:48 12:21 4.4									
Comparison of	120- 125:55 13:17 1.4									
bucket with inline	130- 131:42 13:27 4.7									
flowmeter yielded										
a similar rate.	Inline flowmeter reading at the BW7 wellhead:									
	Elapsed min:sec TIME FLOW RATE (gpm)									
	~70 min 12:27 6.45 rain started 83:49 12:41 5.49 rain stopped at 80 min elapsed time									
	12.41 3.49 Taili stopped at 80 min ciapsed time									
	TIME - FLOW RATE (gpm) - Justin & Ye									
	13:42 6.6									
	13:45 5.7									
	13:50 5.2									
14:00 2.9										
	14:10 2.7									
	14:30 2.82									
	14:55 2.75									
	15:15									
	15:33 5.12									
i	13.33 3.14									

3 minute interruption flow rate is 0 Let's write down the exact time flow stopped. 3-more interruptions flow rate is 0 16:06 - 5.33 2 minute interruption flow rate is 0 2-3 minute interruptions flow rate is 0 BW7 drawdown (Chau Ha) BW 7 Water Drawdown Information Min Time DTW Notes 11:17 1 13.755 2 11:18 14.1 "Min" is the 11:19 14.305 3 elapsed time since 11:21 14.745 5 the start of 7 11:23 15.04 pumping test 15.59 11:26 10 12 11:28 15.555 15 11:31 15.79 11:36 16.165 20 16.51 25 11:41 16.88 30 11:46 40 11:56 17.315 50 12:06 17.78 60 12:16 18.055 12:31 @12:24: flowrate reduced 75 22.315 12:46 90 26.105 @13:20: flowrate reduced again 13:17 21.365 120 13:47 26.15 150 180 14:17 20.695 15:20: 17.00; 15:52: 17.695 240 15:18 17.77 300 16:21 17.76 Pump died Monitoring well Chau Ha: ('Time' is absolute time) drawdown Observed Wells Drawdown Information BW6 Time Time BW1 BW8 15:36 14.11 15:43 14.59 15:41 14.435 Eva Smith: ('min' is elapsed time since pump turns on) pumping start time: 11:16:40 20 9 Water Level Well logging direction · level (m) time min 11-17-40 13.53 ĺ 13.525 11:18:40 11:19:40 13.523 3 13.523 11:21:40 13.525 11:23:40 11:26:40 13.53 10 13.53 11: 28:40 12 11:31:40 13.535 15 11:36:40 13.545 20

25

11:41:40

13.555

	30   146:40   13.567 4×2.5   158 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Transducer Data	Will be downloaded after the next well test & WL recovery.
Water	Clear water mostly throughput the test; cloudy water was observed from time to time, which likely
Chemistry	damaged the inline flowmeter (which stopped working $\sim 1$ hr after the test started).
	1:11 pm: pH = 7.4; Oakyon meter: TDS = 190 ppm; 9.5 C; water sample taken in bottle
Comments	A constant pumping rate was <u>not</u> maintained throughout the test duration. Similar to the 2017 test, pumping rate varies, from 6 to 3 gpm, and it was difficult to maintain a constant rate.
	Generator malfunctioned & stopped after ~4:15 hours of pumping; adding fuel and restarting did not fix the problem: it died repeatedly even with a full fuel tank. Suspected reason for failure according to Brad: the Champion brand of generator "does not like low fuel level". For future test, generator needs close monitoring.
	Minor glowing debris— in-line flowmeter (situated at the pumping well head) killed again. Throughout the rest of the test, bucket test has to be used at the discharge point for flow rate monitoring.
	In future test, we need to check the fuel level in generator every 3 hours (Matt). It's also important to have walki talki among test participants. Minimum of 3 persons to monitor the well test: person 1 at pumping wellhead for DTW; person 2 at pumping wellhead to monitor generator & the flow rate valve; person 3 at discharge point to measure flow rate using a bucket test and communicate with 2 using a walki talki (3 must tell 2 to increase or decrease flow rate, test the actual rate, and feedback to 2). During logging of a monitoring well, a 4th person needs to take manual DTW at the logging borehole where transducer is taken out.

Test Number	#2											
Participants	Brad Carr, Chau Ha;	Ye Zhang										
Location	Blair Wallis road (FS											
Name	BW7 step drawdown te	est after the	(failed) pump	ing test the	week prior							
	Set towards BW4, further east of BW1. Because BW4 is hydraulically isolated from BW1 and											
Discharge point	Set towards BW4, fur the rest of the bedroc		of BW1. Bec	ause BW4	is hydrauli	cally isolated from BW1 and						
WL before test	DTW Before Test											
(Chau Ha)	BW1 9:34 14.135 Deeper than 09/11/19 : 2 cm											
	3W6 9:31 14.565 Deeper than 09/11/19 : 1 cm											
	BW7 9:26 12.965 Deeper than 09/11/19:1 cm											
		•										
			than 09/11									
Start time of test	9/18/2019; 10:05	04 Deeper	tilali 03/11	713.10 (11	11							
Target rate	3 gpm											
Duration	8 hours											
Purpose	Determine the appropriate the appropriate that the appropriate the appropriate that the	propriate pu	mping rate.									
Flow Rate	Time	Min.Sec	Min	GPM	Notes							
(gpm)Ye Zhang & Chau Ha	10:10	220	2.333333	3.43								
Chau Ha	10:16	300	3	2.67								
	10:21	352	3.866667	2.07								
8-gallon bucket test	10:26	336	3.6	2.22								
8-ganon bucket test	10:29	148	1.8	4.44								
	10:33	201	2.016667	3.97								
	10:36	205	2.083333	3.84								
	10:40	215	2.25	3.56								
	10:44	216	2.266667	3.53								
	10:48	222	2.366667	3.38								
	10:53	230	2.5	3.20								
	10:57	222	2.366667	3.38								
	11:08	220	2.333333	3.43								
	11:54	235	2.583333	3.10								
	12:17	243	2.716667	2.94								
	12:30	255	2.916667	2.74								
	12:50	249	2.816667	2.84								
	13:01	253	2.883333	2.77								
	13:09	301	3.016667	2.65								
	13:18	248	2.8	2.86	Inc							
	13:24	153	1.883333	4.25	Inc							
	13:34	141	1.683333	4.75								
	13:45	151	1.85	4.32								
	14:05	202	2.033333	3.93								
	14:22	202	2.033333	3.93								
	14:38	208	2.133333	3.75								
	14:53	208	2.133333	3.75								
	15:22	211	2.183333	3.66	Α							
	15:52	216	2.266667	3.53	A B							
					1 -							

16:02       218       2.3       3.48       B         16:17       219       2.316667       3.45         16:40       226       2.433333       3.29         16:53       224       2.4       3.33         17:10       218       2.3       3.48         17:30       212       2.2       3.64         17:35       129       1.483333       5.39         17:43       131       1.516667       5.27         17:58       142       1.7       4.71         18:21       233       2.55       3.14         18:33       220       2.333333       3.43         18:40       233       2.55       3.14         18:48       230       2.5       3.2							
16:17     219     2.316667     3.45       16:40     226     2.433333     3.29       16:53     224     2.4     3.33       17:10     218     2.3     3.48       17:30     212     2.2     3.64       17:35     129     1.483333     5.39       17:43     131     1.516667     5.27       17:58     142     1.7     4.71       18:21     233     2.55     3.14       18:33     220     2.333333     3.43	18:4	8	230	2.5	3	.2	
16:17       219       2.316667       3.45         16:40       226       2.433333       3.29         16:53       224       2.4       3.33         17:10       218       2.3       3.48         17:30       212       2.2       3.64         17:35       129       1.483333       5.39         17:43       131       1.516667       5.27         17:58       142       1.7       4.71         18:21       233       2.55       3.14	18:4	0	233	2.55	3.1	L4	
16:17     219     2.316667     3.45       16:40     226     2.433333     3.29       16:53     224     2.4     3.33       17:10     218     2.3     3.48       17:30     212     2.2     3.64       17:35     129     1.483333     5.39       17:43     131     1.516667     5.27       17:58     142     1.7     4.71	18:3	3	220	2.333333	3.4	13	
16:17     219     2.316667     3.45       16:40     226     2.433333     3.29       16:53     224     2.4     3.33       17:10     218     2.3     3.48       17:30     212     2.2     3.64       17:35     129     1.483333     5.39       17:43     131     1.516667     5.27	18:2	1	233	2.55	3.1	L4	
16:17     219     2.316667     3.45       16:40     226     2.433333     3.29       16:53     224     2.4     3.33       17:10     218     2.3     3.48       17:30     212     2.2     3.64       17:35     129     1.483333     5.39	17:5	8	142	1.7	4.7	71	
16:17     219     2.316667     3.45       16:40     226     2.433333     3.29       16:53     224     2.4     3.33       17:10     218     2.3     3.48       17:30     212     2.2     3.64	17:4	3	131	1.516667	5.2	27	
16:17     219     2.316667     3.45       16:40     226     2.433333     3.29       16:53     224     2.4     3.33       17:10     218     2.3     3.48	17:3	5	129	1.483333	5.3	39	
16:17     219     2.316667     3.45       16:40     226     2.433333     3.29       16:53     224     2.4     3.33	17:3	0	212	2.2	3.6	64	
16:17     219     2.316667     3.45       16:40     226     2.433333     3.29	17:1	0	218	2.3	3.4	18	
16:17 219 2.316667 3.45	16:5	3	224	2.4	3.3	33	
	16:4	0	226	2.433333	3.2	29	
16:02 218 2.3 3.48 B	16:1	7	219	2.316667	3.4	15	
	16:0	2	218	2.3	3.4	18	В

## BW7 drawdown (Chau Ha)

"Min" is the elapsed time since the start of pumping test

	18:48	230	2.5	
Time	Min	DTW	Note	
10:05	1	13.61	1st rate	
	2	13.684		
	3	13.96		
	4	14.015		
	5	14.04		
	6	14.05		
	7	14.06		
	8	14.06		
	9	14.095		
	10	14.09		
	11	14.08		
	12	14.04		
	13	14.039		
	14	14.02		
	15	14		
	16	14.005		
	17	14.005		
	18	13.995		
	19	13.995		
	20	13.985		
	30	14.505		
	40	14.795		
	50	14.955		
	60	15.09		
	70	15.245		
	80	15.361		
	90	15.41		
	100	15.49		
	110	15.455		
	120	15.425		
	136	15.38		
	140	15.345		

		150	15.28	
		160	15.185	
		174	15.195	
		180	15.18	
1	3:14	190	15.27	
				2nd
1	3:18	1	15.245	rate
		2	15.28	
		3	15.245	
		5	15.515	
		6	15.48	
		7	15.798	
		8		
			15.85	
		9	16.16	
		10	16.13	
		11	16.21	
		12	16.375	
		13	16.5	
		14	16.62	
		15	16.73	
		16	16.84	
		17	16.93	
		18	17.01	
		19	17.085	
		20	17.155	
		21	17.22	
		22	17.305	
		23	17.365	
		24	17.45	
		25	17.52	
		28	17.725	
		29	17.775	
		30	17.83	
		40	19.07	
		50	20.355	
		60	21.165	
		70	21.69	
		80	22.115	
		90	22.56	
		106	23.045	
		110	23.09	
		120	23.175	
	[	130	23.26	
		141	23.315	
_		150	23.22	
		160	23.135	

		170	23.05	5							
		180	22.97	,							
		190	22.93	3							
		205	22.9	)							
		217	22.915	5							
		235	22.95	5							
		254	23.19	)							
		270	28.32	2							
		283	28.32	2							
		306	26.32	2							
		318	26.11	<u> </u>							
Monitoring well	Monitori	ng Wells									
drawdown	BW1	11:37	14.135	11:57	14.13						
Chau Ha	BW6	11:37	14.59	11:57	14.59						
	BW8	11:40	14.378	11:59	14.393						
	BW9	11:41	13.733	12:00	13.74						
	XX7'11 1 1	1 1 1 0	.1 .	11 0 . 77	T.						
Transducer Data Water	Will be dov	vnloaded after	the next w	ell test & W	L recovery.						
Chemistry											
Comments	Water discl	narged was cle	ear through	out the test.							
	Dafa a a ala		// : II E .			)					
		•		-		) were measured. They were compared tended after 5 hrs). For 3 wells, WL is 1					
						s not changed significantly. The water					
						nost rainfall could not infiltrate to					
	bedrock to	contribute	to GW rec	harge due	to the dry	unsaturated zone after a long dry					
		•			•	ateral GW flow because the water					
		•	•	•		ive lateral flow. The lateral GW flow in					
						in nearby streams. Finally, though ET is pretty exposed with few vegetation					
	,				-	nd not likely contributing much					
		_				andition for the next pumping test is					
		ar to the one									
	C11-24		44441		. 4 4 771 .						
	Couldn't m	Couldn't maintain a constant rate throughout the test. The most stable rate observed is around 3.0 gpm.									

Test Number	#3										
Participants	Chau Ha, N	Matt Elliot, Step	hanie Phillip	s, Eva Smit	th, Daniel C	Ciraula, Tes	ssa Ray-Cozzens,	, Ye			
_	Zhang										
Location		is road (FS 705	, , , , , , , , , , , , , , , , , , ,	oming							
Name	BW7 48-Hc	our Pumping Test	t								
Discharge point				Because B	W4 is hydi	aulically is	solated from BW	1 and			
		the bedrock we	lls.								
WL before test	DTW Befo	ore Test									
(Chau Ha)	BW1	9:31 1	13.105								
	BW6	9:34	L4.585								
	BW7	9:18 1	13.105								
	BW8	9:26	14.338								
	BW9		13.825								
Start time of test	9/20/2019;		13.023								
Target rate	~3.5 gpm	10.00.00									
Duration	47.35 hour	S									
Purpose	<ul><li>Seismi</li><li>Detern</li><li>Collectivith B</li></ul>										
Flow Rate (gpm) Daniel Ciraula & Justin Bowen		ow valve rule: us n left to increase		1/10 of a ful	ll turn); turn	right to con	strict the flow ("rig	ghty			
	Time	Elapsed Time	Min	Min/Sec	Min	Rate	Notes				
8-gallone graded	10:03	0:03:00	0003	218	2.30	3.48					
bucket used;	10:07	0:07:00	0007	105	1.08	1.85	Fills 2 Gals				
	10:10	0:10:00	0010	152	1.87	4.29					
	10:14	0:14:00	0014	210	2.17	3.69					
	10:21	0:21:00	0021	213	2.22	3.61					
	10:26	0:26:00	0026	217	2.28	3.50		_			
								_			
	10:32	0:32:00	0032	219	2.32	3.45		_			
	10:36	0:36:00	0036	213	2.22	3.61		_			
	10:43	0:43:00	0043	214	2.23	3.58					
	10:56	0:56:00	0056	250	2.83	2.82					
	11:07	1:07:00	0067	319	3.32	2.41					
	11:12	1:12:00	0072	227	2.45	3.27					
	11:27	1:27:00	0087	200	2.00	4.00					
	11:34	1:34:00	0094	226	2.43	3.29		$\dashv$			
	11:51	1:51:00	0111	227	2.45	3.27		-			
								_			
	11:59	1:59:00	0119	228	2.47	3.24		_			
	12:35	2:35:00	0155	480	5.33	1.50		_			
	12:50	2:50:00	0170	239	2.65	3.02					
	13:10	3:10:00	0190	234	2.57	3.12					
	13:20	3:20:00	0200	259	2.98	2.68					
	13:33	3:33:00	0213	212	2.20	3.64					
	13:45	3:45:00	0225	214	2.23	3.58					
	14:06	4:06:00	0246	226	2.43	3.29					
	1 - 1.00		52.10			5.23					

т				1	-			-		
	14:15	4:15	:00	0255	231	2.5	2	3.18		
	14:31	4:31	:00	0271	216	2.2	7	3.53		
	14:40	4:40	:00	0280	217	2.2	8	3.50		
	14:54	4:54:	:00	0294	220	2.3	3	3.43		
	15:10	5:10	:00	0310	224	2.4	0	3.33		
	15:26	5:26	:00	0326	310	3.1	7	2.53		
	15:33	5:33	:00	0333	306	3.1	0	2.58		
	15:39	5:39	:00	0339	205	2.0	8	3.84		
	15:45	5:45	:00	0345	236	2.6	0	3.08		
	15:51	5:51	:00	0351	239	2.6	5	3.02		
	15:56	5:56	:00	0356	243	2.7	2	2.94		
	16:02	6:02	:00	0362	151	1.8	5	4.32		
	16:06	6:06	:00	0366	215	2.2	5	3.56		
	16:25	6:25	:00	0385	237	2.6	2	3.06		
	16:41	6:41:	:00	0401	239	2.6	5	3.02		
	17:03	7:03	:00	0423	255	2.9	2	2.74		
	17:09	7:09	:00	0429	214	2.2	3	3.58		
	17:30	7:30	:00	0450	215	2.2	5	3.56	Small rain @ 5:35	
	17:51	7:51	:00	0471	222	2.3	7	3.38		
	18:18	8:18	:00	0498	216	2.2	7	3.53		
	18:47	8:47	:00	0527	227	2.4	5	3.27		
	20:10	10:10	:00	0610	246	2.7	7	2.89		
	20:33	10:33	:00	0633	208	2.1	3	3.75		
	21:50	11:50	:00	0710	226	2.4	3	3.29		
	22:05	12:05	:00	0725	209	2.1	5	3.72		
	1:10	15:10	:00	0910	211	2.1	8	3.66	21-Sep	
	1:35	15:35	:00	0935				3.78		
	4:25	18:25	:00	1105				3.84		
	9:02	23:02:	:00	1382	143	1.7	2	4.66		
	9:40	23:40	:00	1420	120	1.3	3	6.00		
	10:10	24:10	:00	1450	222	2.3	7	3.38		
	10:32	24:32	:00	1472	217	2.2	8	3.50		
	12:53	26:53	:00	1613	328	3.4	7	2.31		
	13:44	27:44	:00	1664	222	2.3	7	3.38		
	14:48	28:48	:00	1728	204	2.0	7	3.87	maintained long	
	15:16	29:16	:00	1756	222	2.3	7	3.38		
	15:50	29:50	:00	1790	300	3.0	0	2.67		
	16:02	30:02	:00	1802	240	2.6	7	3.00		
	20:15	34:15	:00	2055	213	2.2	2	3.61		
	21:55	35:55	:00	2155	204	2.0	7	3.87	22-Sep	
	3:53	41:53	:00	2513	210	2.1	7	3.69		
	9:35	47:35	:00	2855	211	2.1	8	3.66		
BW7 drawdown (Chau Ha)	Time	Min	DTW	Notes						

(Chau Ha)

Time	Min	DTW	Notes
10:01	1	13.585	

"Mi": 41	10:02	2	13.78							
"Min" is the elapsed time since	10:03	3	13.845							
the start of		5	13.865							
pumping test		7	13.81							
		10	14.05							
		12	14.26							
		15	14.475							
		20	14.645							
		25	14.825							
		30	14.985							
		40	15.29							
		50	15.58							
		75	15.255							
		90	15.18							
		120	16.06							
		150	15.81							
		180	15.79							
		240	17.47							
		300	20.088							
		360	19.87							
		420	20.27							
		480	23.18							
		600	23.11							
		720	26.14							
		910	26.12							
		935	26.485							
		1097	26.08							
		1105	26.35							
		1440	45.69							
		1800	43.66							
		2160	40.86							
		2520 2855	40.4							
Monitoring well	9/20/2019	BW1	48.06 15:3	<i>,</i>	L4.125	17.27	1415	18:50	14.13	
drawdown	9/20/2019	DAAT	15.5	5 .	14.125	17:27	14.15	16.50	14.15	
	9/20/2019	BW6	15:3	_	14.64			18:50	14.674	
	9/20/2019	DVVO	15.5	5	14.04		14.655	16.50	14.074	
	9/20/2019	BW8	15:3	5 /	L4.707	17:26	14.655	18:50	14.803	
	9/20/2019	BW9	15:3	_	L4.707 L3.965		14.76	18:50	14.803	
	3/20/2019	פעעם	13.3	<u> </u>	.5.503	17:23	14.013	10.30	14.303	
	9/21/2019	BW1	9:1	Ω	14.14					
	9/21/2019	BW1	9:1		14.14 14.685					
						+				
	9/21/2019 9/21/2019	BW8	9:1		L4.969					
	3/21/2019	BW9	9:1	υ .	L4.185	<u> </u>				
	0/20/2010	D)4/4	44.0	<i>c</i>	14.00					
	9/26/2019	BW1	14:0	ס	14.06	)				

	9/26/2019	BW6	12:48	14.596									
	9/26/2019	BW8*	13:00	14.955									
	9/26/2019	BW9	8:45	14.15									
	9/26/2019	BW7	11:30	13.232									
Transducer Data	Stephanie have	downloade	ed the transdu	cers (BW 1,	6, 7, 8, 9) a	nd reset then	n to 15 min n	nonitoring.					
Water		Stephanie have downloaded the transducers (BW 1, 6, 7, 8, 9) and reset them to 15 min monitoring.  Clear water mostly throughput the test											
Chemistry		·····, · ···O ··· ·											
	2:22 pm: pH =	2:22 pm: pH = 7; Oakyon meter: TDS = 163 ppm; 10.5 C; water sample taken in bottle											
Comments	Water discharg	Water discharged was clear throughout the test.											
	Before the pun of all wells were maintain a contract jumped to unknown but of fluctuating area correlated with drawdown walevel recovered.  The last DTW have a max dependent of the last DTW right after the last DTW right	re essentiall stant rate of 6 gpm while an be due to und 3.5 gpm the pumpirs 34.955m. d 19.06 m reading is rawdown of the stant of the	y similar to the 3.0 gpm, but end at some other the fracture in though stilling rate: when after the puright after the 48.06 m at 1.05 gpm.	the actual rater points it were points it were points. The going down the rate was no was turne seismic surv.  3.66gpm. The seismic surv.	ed in the ste tet varied the vent down to e rate became to less than high, dtw in d off for the ey (about 3) the DTW beam. I believe	p test two da proughout the o less than 2 ne more stable of 3 gpm some increased and de seismic surv hours).	ys prior. We test. At som gpm. The exple later on du etimes. The F vice versa. The yet to take plast is 13.1050 per 29m I to	tried to e points, the act reason is ring the test, BW7 DTW The max lace, the water  m Thus, we					