



StimDesigner User Guide

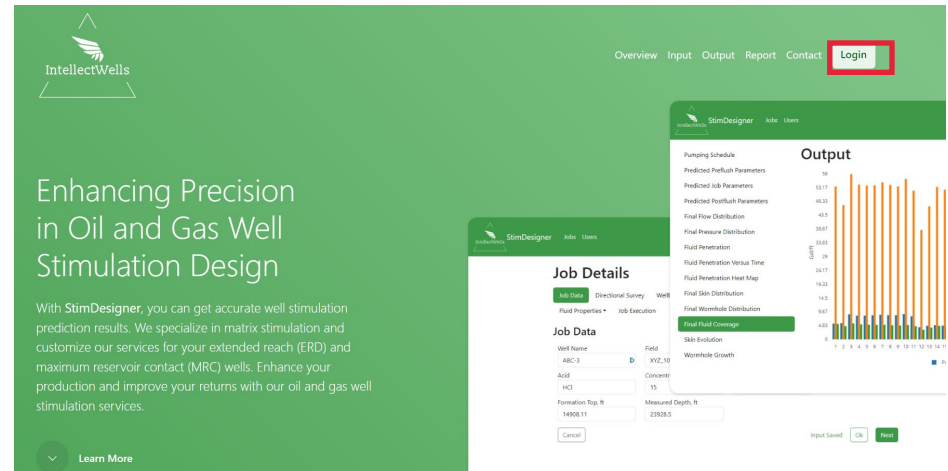


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1. Account Set Up and Log in

1.1. Access company website at www.intellectwells.com.

1.2. With the main page loaded, click the “Log in” tab in the upper right corner as shown in the picture.





- 1.3. With the “Log in” screen open, enter your username. The username is the email address that was used to create the account by the application admin.
- 1.4. Enter your password if available.
- 1.5. Alternatively, if an account has just been created by the admin, but a password has not yet been set, click the “Forgot Password” button.

Log in

Use a local account to log in.

Email

Password

Remember me?

Log in

[Forgot your password?](#)

[Resend email confirmation](#)



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1.6. Enter your username. The username is the email address that was used to create the account by the application admin.

1.7. Click the “Reset Password” button.

1.8. The application will confirm the receipt of your request and will instruct you to check your email, A password reset link will be sent to your email.



Forgot your password? Enter your email.

The Email field is required.

Reset Password



Forgot password confirmation

Please check your email to reset your password.




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1.9. Open the email message from “StimDesigner” and click the link.

1.10. In some cases, the email is sent to the junk/spam folder and the link will look like the one in the picture.

1.11. Move the message from the junk/spam folder to your inbox before clicking the password reset link.

Reset Password

 StimDesigner <stimdesigner@mg.sancsoft.net>
To technicalsupport@intellectwells.com

Please reset your password by [clicking here.](#)

Links and other functionality have been disabled in this message. To turn on that functionality, move this message to the inbox. We converted this message into plain text format.

Please reset your password by clicking here <<http://stimdesigner.intellectwells.com/identity/account/resetpassword?code=Q2ZESjhhKVnVac2Z3dDRCS2SRtXfdHdzdGNKSvhKYWITNDBrUWfJWU9GeHRlbrMsWVFRSnFCTrNPNDhxd2pndXVHYWdNZFtQWRBHVHdsNDcyc3hzZXFtY2lGeK41UncyVU5yeBEU0Evd1hrWGlVVMrl29VSHhiOVROc0tmbEJIWkNjOXdmNmRnWnRCU3hVFFUZWc2eTd6UVlyUG9TaKnwaXZhbHQNTFaYkrl1VlUUVMM01NaENPa1h4bCtjdEds53NYV1oy>> .



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- 1.12. Enter a new strong password. The application will instruct you on the types of characters that must be included in the password.
- 1.13. Confirm the newly created password by entering it again into the second textbox.
- 1.14. Click the “Reset” button.



Reset password Reset your password.

Email
Password
Confirm password
<input type="button" value="Reset"/>



- 1.15. Click the “Log in” button to access the “Log in” screen.
- 1.16. Enter your username. The username is the email address that was used to create the account by the application admin.
- 1.17. Enter the newly created password.
- 1.18. Click the “Log in” button.

Log in

Use a local account to log in.

 Remember me?

Log in

[Forgot your password?](#)

[Resend email confirmation](#)



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2. Job Database

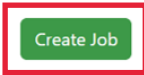
- 2.1. If logged in for the first time, the job database, that appears after logging in, will be empty.
- 2.2. Click the “Create Job” button to access the input interface.
- 2.3. Alternatively, if jobs have already been modelled during previous sessions, the job database will list those jobs and will resemble the one shown in the picture.
- 2.4. Click either the “Edit” button to access and/or make changes to an existing job, the “Clone” button to save an existing job as a new one, or the “Create Job” button to start a new job.

Jobs

Timestamp	Well Name : Field	Status	User
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Jobs

Timestamp	Well Name : Field	Status	Manage
04/05/2024 16:28:38	AMZ-3 : AZR	Succeeded at 07/04/2024 11:48:57	Edit Clone Details Delete
04/05/2024 14:06:55	AMZ-2 : NAF	Succeeded at 05/04/2024 14:07:28	Edit Clone Details Delete
04/05/2024 14:04:30	AMZ-1 : NAF	Succeeded at 05/04/2024 14:09:50	Edit Clone Details Delete





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3. Job Details

3.1. With the “Job Data” screen open, enter job data into the corresponding textboxes.

3.2. Enter data values according to the measurement units shown next to each textbox.

3.3. Click “OK” to save changes or “Cancel” to ignore them.

3.4. Click “Next” to access the “Directional Survey” screen.

3.5. To skip to a particular screen, click its corresponding tab in the main menu.

Stim Designer Jobs Users Hello technicalsupport@intellectwells.com! Logout

Job Details

Job Data Directional Survey Wellbore Data Completion Details Reservoir Data Fluid Sequence Fluid Properties ▾

Job Execution

Job Data

Well Name	Field	
AMZ-3	AZR	
Acid	Concentration, %	Coverage, gal/ft
HCl	15	37.22517687
Formation Top, ft	Measured Depth, ft	
11868	20066	

Cancel

Input Saved Ok Next



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4. Directional Survey

- 4.1. With the “Directional Survey” screen open, click the “Download Data” button. A “directional_survey_data” csv file link will pop up.
- 4.2. Click the link to download and open the “directional_survey_data” csv file.
- 4.3. Copy and paste “measured depth” and “true vertical depth” data into their corresponding columns. Close file.
- 4.4. To keep the csv file in the “Downloads” folder, click save.
- 4.5. Otherwise, click “Save as” and browse to the folder on your local machine where the file is to be stored.

The screenshot shows the Stim Designer software interface. At the top, there is a green header bar with the IntellectWells logo, the text "Stim Designer Jobs Users", and the email "Hello technicalsupport@intellectwells.com! Logout". Below the header, the "Job Details" section is visible, with tabs for "Job Data", "Directional Survey", "Wellbore Data", "Completion Details", "Reservoir Data", "Fluid Sequence", and "Fluid Properties". The "Directional Survey" tab is active, showing a "Download Data" button (highlighted with a red box), an "Upload Data" button, and a "Data Saved" status. Below these buttons are "Previous" and "Cancel" buttons, and "Input Saved", "Ok", and "Next" buttons.

Below the software interface is a screenshot of an Excel spreadsheet. The spreadsheet has two columns: "MD (ft)" and "TVD (ft)". The "MD (ft)" column contains values from 0 to 17640 in increments of 325. The "TVD (ft)" column contains values from 0 to 8896.00 in increments of 324.99.

MD (ft)	TVD (ft)
0	0
325	324.99
650	649.99
975	974.99
1300	1299.99
1625	1624.99
1950	1949.99
2275	2274.99
2600	2599.99
2925	2924.99
3250	3249.99
3575	3574.99
3900	3899.99
4225	4224.99
4550	4549.99
4875	4874.99
5200	5199.99
5525	5524.99
5850	5849.99
6175	6174.99
6500	6499.99
6825	6824.99
7150	7149.99
7475	7474.99
7800	7799.99
8125	8124.99
8450	8449.99
8775	8774.99
9100	9099.99
9425	9424.99
9750	9749.99
10075	10074.99
10400	10399.99
10725	10724.99
11050	11049.99
11375	11374.99
11700	11699.99
12025	12024.99
12350	12349.99
12675	12674.99
13000	12999.99
13325	13324.99
13650	13649.99
13975	13974.99
14300	14299.99
14625	14624.99
14950	14949.99
15275	15274.99
15600	15599.99
15925	15924.99
16250	16249.99
16575	16574.99
16900	16899.99
17225	17224.99
17550	17549.99
17875	17874.99
18200	18199.99
18525	18524.99
18850	18849.99
19175	19174.99
19500	19499.99
19825	19824.99
20150	20149.99
20475	20474.99
20800	20799.99
21125	21124.99
21450	21449.99
21775	21774.99
22100	22099.99
22425	22424.99
22750	22749.99
23075	23074.99
23400	23399.99
23725	23724.99
24050	24049.99
24375	24374.99
24700	24699.99
25025	25024.99
25350	25349.99
25675	25674.99
26000	25999.99
26325	26324.99
26650	26649.99
26975	26974.99
27300	27299.99
27625	27624.99
27950	27949.99
28275	28274.99
28600	28599.99
28925	28924.99
29250	29249.99
29575	29574.99
29900	29899.99
30225	30224.99
30550	30549.99
30875	30874.99
31200	31199.99
31525	31524.99
31850	31849.99
32175	32174.99
32500	32499.99
32825	32824.99
33150	33149.99
33475	33474.99
33800	33799.99
34125	34124.99
34450	34449.99
34775	34774.99
35100	35099.99
35425	35424.99
35750	35749.99
36075	36074.99
36400	36399.99
36725	36724.99
37050	37049.99
37375	37374.99
37700	37699.99
38025	38024.99
38350	38349.99
38675	38674.99
39000	38999.99
39325	39324.99
39650	39649.99
39975	39974.99
40300	40299.99
40625	40624.99
40950	40949.99
41275	41274.99
41600	41599.99
41925	41924.99
42250	42249.99
42575	42574.99
42900	42899.99
43225	43224.99
43550	43549.99
43875	43874.99
44200	44199.99
44525	44524.99
44850	44849.99
45175	45174.99
45500	45499.99
45825	45824.99
46150	46149.99
46475	46474.99
46800	46799.99
47125	47124.99
47450	47449.99
47775	47774.99
48100	48099.99
48425	48424.99
48750	48749.99
49075	49074.99
49400	49399.99
49725	49724.99
50050	50049.99
50375	50374.99
50700	50699.99
51025	51024.99
51350	51349.99
51675	51674.99
52000	51999.99
52325	52324.99
52650	52649.99
52975	52974.99
53300	53299.99
53625	53624.99
53950	53949.99
54275	54274.99
54600	54599.99
54925	54924.99
55250	55249.99
55575	55574.99
55900	55899.99
56225	56224.99
56550	56549.99
56875	56874.99
57200	57199.99
57525	57524.99
57850	57849.99
58175	58174.99
58500	58499.99
58825	58824.99
59150	59149.99
59475	59474.99
59800	59799.99
60125	60124.99
60450	60449.99
60775	60774.99
61100	61099.99
61425	61424.99
61750	61749.99
62075	62074.99
62400	62399.99
62725	62724.99
63050	63049.99
63375	63374.99
63700	63699.99
64025	64024.99
64350	64349.99
64675	64674.99
65000	64999.99
65325	65324.99
65650	65649.99
65975	65974.99
66300	66299.99
66625	66624.99
66950	66949.99
67275	67274.99
67600	67599.99
67925	67924.99
68250	68249.99
68575	68574.99
68900	68899.99
69225	69224.99
69550	69549.99
69875	69874.99
70200	70199.99
70525	70524.99
70850	70849.99
71175	71174.99
71500	71499.99
71825	71824.99
72150	72149.99
72475	72474.99
72800	72799.99
73125	73124.99
73450	73449.99
73775	73774.99
74100	74099.99
74425	74424.99
74750	74749.99
75075	75074.99
75400	75399.99
75725	75724.99
76050	76049.99
76375	76374.99
76700	76699.99
77025	77024.99
77350	77349.99
77675	77674.99
78000	77999.99
78325	78324.99
78650	78649.99
78975	78974.99
79300	79299.99
79625	79624.99
79950	79949.99
80275	80274.99
80600	80599.99
80925	80924.99
81250	81249.99
81575	81574.99
81900	81899.99
82225	82224.99
82550	82549.99
82875	82874.99
83200	83199.99
83525	83524.99
83850	83849.99
84175	84174.99
84500	84499.99
84825	84824.99
85150	85149.99
85475	85474.99
85800	85799.99
86125	86124.99
86450	86449.99
86775	86774.99
87100	87099.99
87425	87424.99
87750	87749.99
88075	88074.99
88400	88399.99
88725	88724.99
89050	89049.99
89375	89374.99
89700	89699.99
90025	90024.99
90350	90349.99
90675	90674.99
91000	90999.99
91325	91324.99
91650	91649.99
91975	91974.99
92300	92299.99
92625	92624.99
92950	92949.99
93275	93274.99
93600	93599.99
93925	93924.99
94250	94249.99
94575	94574.99
94900	94899.99
95225	95224.99
95550	95549.99
95875	95874.99
96200	96199.99
96525	96524.99
96850	96849.99
97175	97174.99
97500	97499.99
97825	97824.99
98150	98149.99
98475	98474.99
98800	98799.99
99125	99124.99
99450	99449.99
99775	99774.99
100100	100099.99
100425	100424.99
100750	100749.99
101075	101074.99
101400	101399.99
101725	101724.99
102050	102049.99
102375	102374.99
102700	102699.99
103025	103024.99
103350	103349.99
103675	103674.99
104000	103999.99
104325	104324.99
104650	104649.99
104975	104974.99
105300	105299.99
105625	105624.99
105950	105949.99
106275	106274.99
106600	106599.99
106925	106924.99
107250	107249.99
107575	107574.99
107900	107899.99
108225	108224.99
108550	108549.99
108875	108874.99
109200	109199.99
109525	109524.99
109850	109849.99
110175	110174.99
110500	110499.99
110825	110824.99
111150	111149.99
111475	111474.99
111800	111799.99
112125	112124.99
112450	112449.99
112775	112774.99
113100	113099.99
113425	113424.99
113750	113749.99
114075	114074.99
114400	114399.99
114725	114724.99
115050	115049.99
115375	115374.99
115700	115699.99
116025	116024.99
116350	116349.99
116675	116674.99
117000	116999.99
117325	117324.99
117650	117649.99
117975	117974.99
118300	118299.99
118625	118624.99
118950	118949.99
119275	119274.99
119600	119599.99
119925	119924.99
120250	120249.99
120575	120574.99
120900	120899.99
121225	121224.99
121550	121549.99
121875	121874.99
122200	122199.99
122525	122524.99
122850	122849.99
123175	123174.99
123500	123499.99
123825	123824.99
124150	124149.99
124475	124474.99
124800	124799.99
125125	125124.99
125450	125449.99
125775	125774.99
126100	126099.99
126425	126424.99
126750	126749.99
127075	127074.99
127400	127399.99
127725	127724.99
128050	128049.99
128375	128374.99
128700	128699.99
129025	129024.99
129350	129349.99
129675	129674.99
130000	129999.99
130325	130324.99
130650	130649.99
130975	130974.99
131300	131299.99
131625	131624.99
131950	131949.99
132275	132274.99
132600	132599.99
132925	132924.99
133250	133249.99
133575	133574.99
133900	133899.99
134225	134224.99
134550	134549.99
134875	134874.99
135200	135199.99
135525	135524.99
135850	135849.99
136175	136174.99
136500	136499.99
136825	136824.99
137150	137149.99
137475	137474.99
137800	1



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4.6. Click the “Upload Data” button. A dialogue box will open.

4.7. Locate the “directional_survey_data” file on your machine and click “OK” to upload the file.

4.8. Click “OK” to save the changes and then “Next” to access the “Wellbore Data” screen.

4.9. To skip to a particular screen, click its corresponding tab in the main menu.

Stim Designer Jobs Users Hello technicalsupport@intellectwells.com! Logout

Job Details

Job Data **Directional Survey** Wellbore Data Completion Details Reservoir Data Fluid Sequence Fluid Properties ▾

Job Execution

Directional Survey

Download Data **Upload Data** Data Saved

Previous Cancel Input Saved **Ok** **Next**

5. Wellbore Data

5.1. With the “Wellbore Data” screen open, enter data into the corresponding textboxes.

5.2. Enter data values according to the measurement units shown next to each textbox.

5.3. Click “OK” to save changes or “Cancel” to ignore them.

5.4. Click “Next” to access the “Completion Details” screen.

Stim Designer Jobs Users Hello technicalsupport@intellectwells.com! Logout

Job Details

Job Data Directional Survey **Wellbore Data** Completion Details Reservoir Data Fluid Sequence Fluid Properties ▾

Job Execution

Wellbore Data

From, ft	To, ft	ID, in
0	10400	3.958
10400	20066	5.92

Wellbore Capacity, bbl
487.33432998715

Previous Cancel Input Saved **Ok** **Next**



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5.5. To skip to a particular screen, click its corresponding tab in the main menu.

6. Completion Details

6.1. With the “Completion Details” screen open, enter data into the corresponding textboxes.

6.2. Enter data values according to the measurement units shown next to each textbox.

6.3. Click the “Download Data” button. A “completion_details_data” csv file link will pop up.

6.4. Click the link to download and open the “completion_details_data” csv file.

The screenshot shows the Stim Designer web application interface. At the top, there is a green header bar with the IntellectWells logo, the text "Stim Designer Jobs Users", and the user information "Hello technicalsupport@intellectwells.com! Logout". Below the header, the "Job Details" section is visible, with a navigation menu containing "Job Data", "Directional Survey", "Wellbore Data", "Completion Details" (highlighted in green), "Reservoir Data", "Fluid Sequence", and "Fluid Properties". Under "Job Execution", the "Completion Details" screen is active. It features two input fields: "Number of Compartments" with the value "13" and "Hole Discharge Coefficient" with the value "0.7". To the right of these fields, there is a "Lower Completion details" section with a "Download Data" button highlighted by a red box, an "Upload Data" button, and a "Data Saved" label. At the bottom of the form, there are "Previous" and "Cancel" buttons on the left, and "Input Saved", "OK", and "Next" buttons on the right.



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6.5. Copy and paste lower completion data into their corresponding columns. Close file.

6.6. To keep the file in the “Downloads” folder, click save.

6.7. Otherwise, click “Save as” and browse to the folder on your local machine where the file is to be stored.

6.8. Click the “Upload Data” button. A dialogue box will open.

6.9. Locate the “completion_details_data” csv file on your machine and click “OK” to upload.

6.10. Click “OK” to save the changes and then “Next” to access the “Reservoir Data” screen.

6.11. To skip to a particular screen, click its corresponding tab in the main menu.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1	From (ft)	To (ft)	HoleSize1 (mm)	NumHole s1	HoleSize2 (mm)	NumHole s2	HoleSize3 (mm)	NumHole s3															
2	11868	12372	4	8																			
3	12392	12896	4	8																			
4	12916	13420	4	8																			
5	13440	14028	4	13																			
6	14740	15286	4	10																			
7	15306	15852	4	10																			
8	15872	16460	4	11																			
9	16480	17068	4	11																			
10	17088	17676	4	11																			
11	17696	18284	4	11																			
12	18304	18892	4	12																			
13	18912	19500	4	11																			
14	19520	20066	4	11																			



Job Details

Job Data Directional Survey Wellbore Data **Completion Details** Reservoir Data Fluid Sequence Fluid Properties

Job Execution

Completion Details

Number of Compartments: Hole Discharge Coefficient: Lower Completion Details:



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7. Reservoir Data

7.1. With the “Reservoir Data” screen open, enter data into the corresponding textboxes.

7.2. Enter data values according to the measurement units shown next to each textbox.

7.3. Click the “Download Data” button. A “reservoir_log_data” csv file link will pop up.

7.4. Click the link to download and open the “reservoir_log_data” csv file.

7.5. Copy and paste log data into their corresponding columns. Close file.

7.6. To keep the file in the “Downloads” folder, click save.

7.7. Otherwise, click “Save as” and browse to the folder on your local machine where the file is to be stored.

The screenshot displays the Stim Designer software interface. The top navigation bar includes the IntellectWells logo, the text "Stim Designer Jobs Users", and the user email "Hello technicalsupport@intellectwells.com! Logout". The main content area is titled "Job Details" and features several tabs: "Job Data", "Directional Survey", "Wellbore Data", "Completion Details", "Reservoir Data" (which is selected and highlighted in green), "Fluid Sequence", and "Fluid Properties". Below the tabs, there is a "Job Execution" section. The "Reservoir Data" section contains several input fields for parameters: Reservoir Pressure (psi) set to 5200, Wellbore Radius (ft) set to 0.354, Wellbore Storage Factor set to 1, and Frac Gradient (psi/ft) set to 0.7. Other fields include Opt Interstitial Velocity (cc/min) set to 1.5, Opt PVBT set to 0.25, Damage Ratio set to 0.3, and Min Damage Radius (ft) set to 2. A "Reservoir Log Data" button is highlighted with a red box, and a "Download Data" button is also visible. Below these fields are "Previous" and "Cancel" buttons, and an "Input Saved" status with "Ok" and "Next" buttons. At the bottom of the screenshot, a Microsoft Excel spreadsheet is open, showing a table with columns for MD (ft), Perm (md), and Porosity (%). The data rows are as follows:

MD (ft)	Perm (md)	Porosity (%)
10820	5.43	0.25
11848	22.87	0.25
12372	6.6	0.25
12896	8.94	0.25
13420	12.03	0.25
14028	13.5	0.25
14720	13.5	0.25
15286	15.13	0.25
15852	18.23	0.25
16460	19.5	0.25
17068	21.32	0.25
17676	24.42	0.25
18284	24.42	0.25
18892	27.51	0.25
19500	30.61	0.25
20066	28.55	0.25



StimDesigner User Guide

- 7.8. Click the “Upload Data” button. A dialogue box will open.
- 7.9. Locate the “reservoir_log_data” csv file on your machine and click “OK” to upload.
- 7.10. Click “OK” to save the changes and then “Next” to access the “Fluid Sequence” screen.
- 7.11. To skip to a particular screen, click its corresponding tab in the main menu.

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Job Details

Job Data Directional Survey Wellbore Data Completion Details **Reservoir Data** Fluid Sequence Fluid Properties

Job Execution

Reservoir Data

Reservoir Pressure, psi 5200	Wellbore Radius, ft 0.354	Wellbore Storage Factor 1	Frac Gradient, psi/ft 0.7
Opt Interstitial Velocity, cc/min 1.5	Opt PVBT 0.25	Damage Ratio 0.3	Min Damage Radius, ft 2
Effective Skin 6	Reservoir Thickness, ft 130	Reservoir Log Data Download Data	Upload Data

Previous Cancel

Input Saved OK Next

8. Fluid Sequence

- 8.1. With the “Fluid Sequence” screen open, enter data into the corresponding textboxes.
- 8.2. Enter data values according to the measurement units shown next to each textbox. Main fluid volume will be calculated automatically.
- 8.3. Click “OK” to save changes or “Cancel” to ignore them.
- 8.4. Click “Next” to access the “Fluid Properties” screen.

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Job Details

Job Data Directional Survey Wellbore Data Completion Details Reservoir Data **Fluid Sequence** Fluid Properties

Job Execution

Fluid Sequence

Type	Volume, bbl	Description
Preflush	600	
Main	7265.9999995299995	
Postflush	1200	

Previous Cancel

Input Saved OK Next



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8.5. To skip to a particular screen, click its corresponding tab in the main menu.

9. Fluid Properties

9.1. With the “Fluid Rheology” screen open, enter density values for each fluid into the corresponding textboxes.

9.2. Enter rheological properties for Newtonian and non-Newtonian (if any) fluids.

9.3. Enter data values according to the measurement units shown next to each textbox.

9.4. Click “OK” to save changes or “Cancel” to ignore them.

9.5. Click “Next” to access the “Fluid Recipes” screen.

9.6. To skip to a particular screen, click its corresponding tab in the main menu.

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Job Details

Job Data Directional Survey Wellbore Data Completion Details Reservoir Data Fluid Sequence **Fluid Properties**

Job Execution

Fluid Rheology

	Fluid In Hole	Preflush	Main	Postflush
Density, ppg	<input type="text" value="8.34"/>	<input type="text" value="8.34"/>	<input type="text" value="9.1"/>	<input type="text" value="8.34"/>
Viscosity, cp	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="0.7"/>	<input type="text" value="1"/>
Plastic Viscosity, cp	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Yield Point, lbf/100ft2	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Behavior Index	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Consistency Index, pa sn	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>

Previous Cancel Input Saved **Ok** Next



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- 9.7. With the “Fluid Recipes” screen open, click the “Add Row” button to add as many rows as required, based on the maximum number of additives for all fluids.
- 9.8. Select additive type from the drop-down menu in each row.
- 9.9. Enter each additive’s commercial name and measurement unit into their respective text boxes.
- 9.10. Enter additive concentration for each fluid into their respective textboxes.
- 9.11. Click “OK” to save changes or “Cancel” to ignore them.
- 9.12. Click “Next” to access the “Fluid Friction Data” screen.
- 9.13. To skip to a particular screen, click its corresponding tab in the main menu.

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Job Details

Job Data Directional Survey Wellbore Data Completion Details Reservoir Data Fluid Sequence **Fluid Properties** Job Execution

Fluid Recipes

			Concentrations		
			Preflush	Main	Postflush
Fresh Water	Fresh Water	GPT	949	515	999
Raw Acid	HCl	GPT		434	
Friction Reducer	FR-1	GPT	1	1	1
Mutual Solvent	MS-1	GPT	50		
Corrosion Inhibitor	CI-1	GPT		15	
Non-Emulsifier	NE-1	GPT		1	
Chelating Agent	CA-1	GPT		2	

Add Row Previous Cancel Input Saved **OK** **Next**



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9.14. With the “Fluid Friction Data” screen open, click the “Download Data” button. A “fluid_friction_data” csv file link will pop up.

9.15. Click the link to download and open the “fluid_friction_data” csv file.

9.16. Copy and paste friction data for each fluid and tubular size into their corresponding columns. Close file.

9.17. To keep the file in the “Downloads” folder, click save.

9.18. Otherwise, click “Save as” and browse to the folder on your local machine where the file is to be stored.

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Job Details

Job Data Directional Survey Wellbore Data Completion Details Reservoir Data Fluid Sequence **Fluid Properties**

Job Execution

Fluid Friction Data

Please enter pressure drop per 100ft of pipe in PSI

Download Data Upload Data Data Saved

Previous Cancel Input Saved Ok Next

File Home Insert Page Layout Formulas Data Review View Developer Help Acrobat

Clipboard Font Alignment Number Styles Cells Editing Add-ins Analyse Data Create PDF and Share link Share via Outlook Adobe Acrobat

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
	Rate (bpm)	Fluid in Hole/Pipe Size-1	Fluid in Hole/Pipe Size-2	Preflush/ Pipe Size-1	Preflush/ Pipe Size-2	Main Fluid/Pipe Size-1	Main Fluid/Pipe Size-2	Postflush/ Pipe Size-1	Postflush/ Pipe Size-2														
1				1	2			1	2														
2	0	0	0	0	0	0	0	0	0														
3	5	1	0.14	0.6	0.2	0.6	0.2	0.6	0.2														
4	10	3.53	0.51	1.8	0.4	1.8	0.4	1.8	0.4														
5	15	7.27	1.06	3.2	0.6	3.2	0.6	3.2	0.6														
6	20	12.54	1.78	4	1	4	1	4	1														
7	25	18.98	2.7	5.6	1.3	5.6	1.3	5.6	1.3														
8	30	26.44	3.77	7	1.6	7	1.6	7	1.6														
9	35	34.79	4.97	8.8	2	8.8	2	8.8	2														
10	40	43.88	6.28	10	2.4	10	2.4	10	2.4														
11	45	55.53	7.95	11.5	2.7	11.5	2.7	11.5	2.7														
12	50	66.11	9.49	13.2	3.1	13.2	3.1	13.2	3.1														
13	55	79.99	11.48	15.3	3.7	15.3	3.7	15.3	3.7														
14	60	91.67	13.19	17.6	4.4	17.6	4.4	17.6	4.4														
15																							



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9.19. Click the “Upload Data” button. A dialogue box will open.

9.20. Locate the “fluid_friction_data” csv file on your machine and click “OK” to upload.

9.21. Click “OK” to save the changes and then “Next” to access the “Job Execution” screen.

9.22. To skip to a particular screen, click its corresponding tab in the main menu.

The screenshot shows the 'Job Details' page in Stim Designer. The 'Fluid Properties' tab is selected. Under 'Fluid Friction Data', there is a text input field with the prompt 'Please enter pressure drop per 100ft of pipe in PSI'. Below the input field are three buttons: 'Download Data', 'Upload Data' (highlighted with a red box), and 'Data Saved'. At the bottom, there are 'Previous' and 'Cancel' buttons on the left, and 'Input Saved', 'Ok', and 'Next' buttons on the right. The 'Ok' and 'Next' buttons are also highlighted with a red box.

10. Job Execution

10.1. With the “Job Execution” screen open, enter data into the corresponding textboxes.

10.2. Enter data values according to the measurement units shown next to each textbox.

10.3. Click “OK” to save changes or “Cancel” to ignore them.

10.4. Click the “Finish” button to run the simulator.

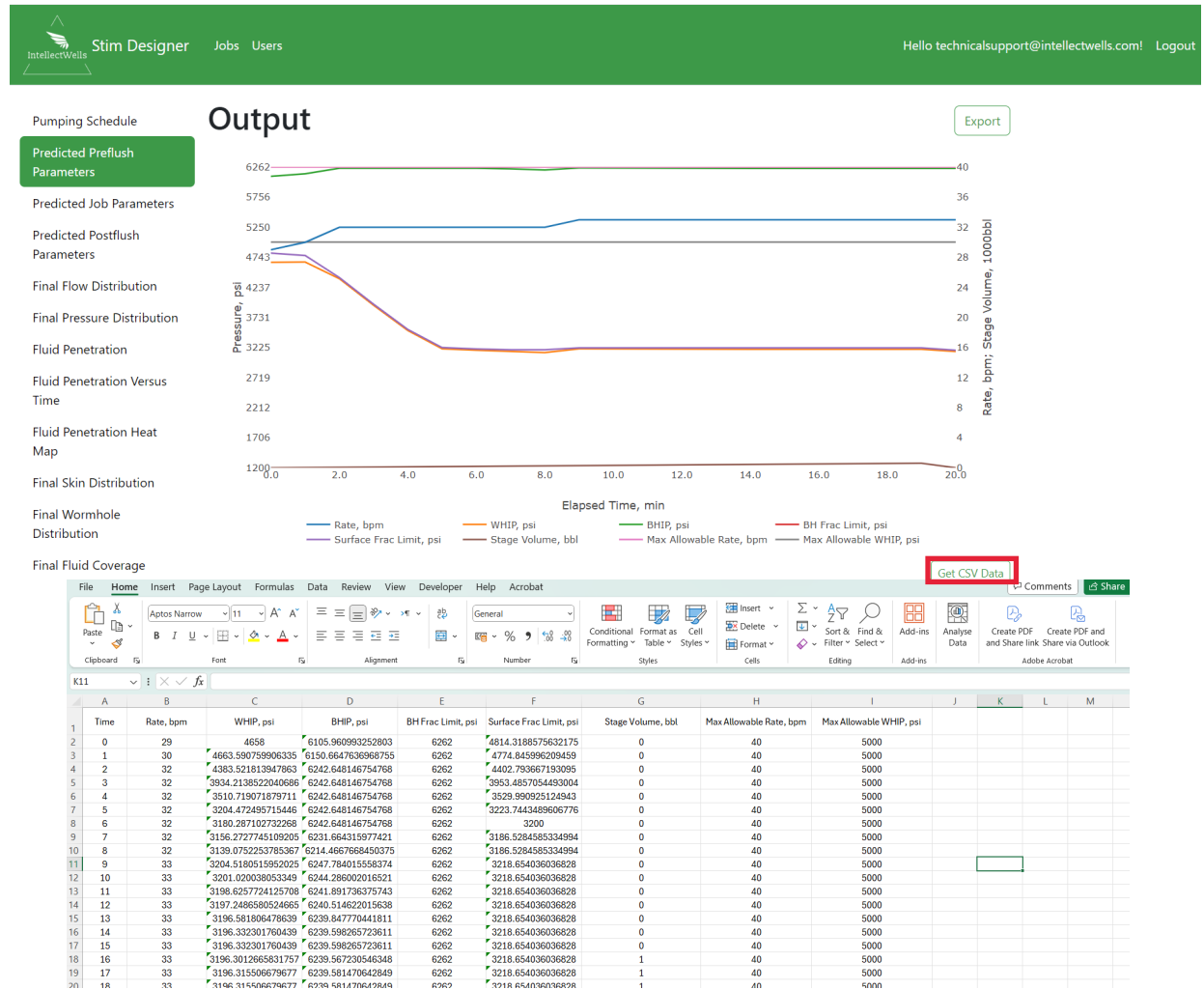
The screenshot shows the 'Job Execution' screen in Stim Designer. The 'Job Execution' tab is selected. There are four input fields: 'Initial Rate, bpm' (value: 20), 'Max Rate, bpm' (value: 40), 'Max WHIP, psi' (value: 5000), and 'Time Step, min' (value: 1). Below the input fields are 'Previous' and 'Cancel' buttons on the left, and 'Input Saved', 'Ok', and 'Finish' buttons on the right. The 'Ok' and 'Finish' buttons are highlighted with a red box.



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12. Predicted Pre-flush Parameters

- 12.1. Select “Predicted Preflush Parameters” tab to view an interactive graph illustrating the anticipated job parameters versus job elapsed time during the preflush pumping stage.
- 12.2. Hover the mouse over any part of the graph to read data pairs representing each parameter’s time dependence.
- 12.3. Click the “csv” button in the lower right corner of the page to download and open a csv file that contains the application generated raw data used to create the graph.
- 12.4. If desired, save the downloaded csv file to your local machine for further data processing using other applications on your local machine.





StimDesigner User Guide

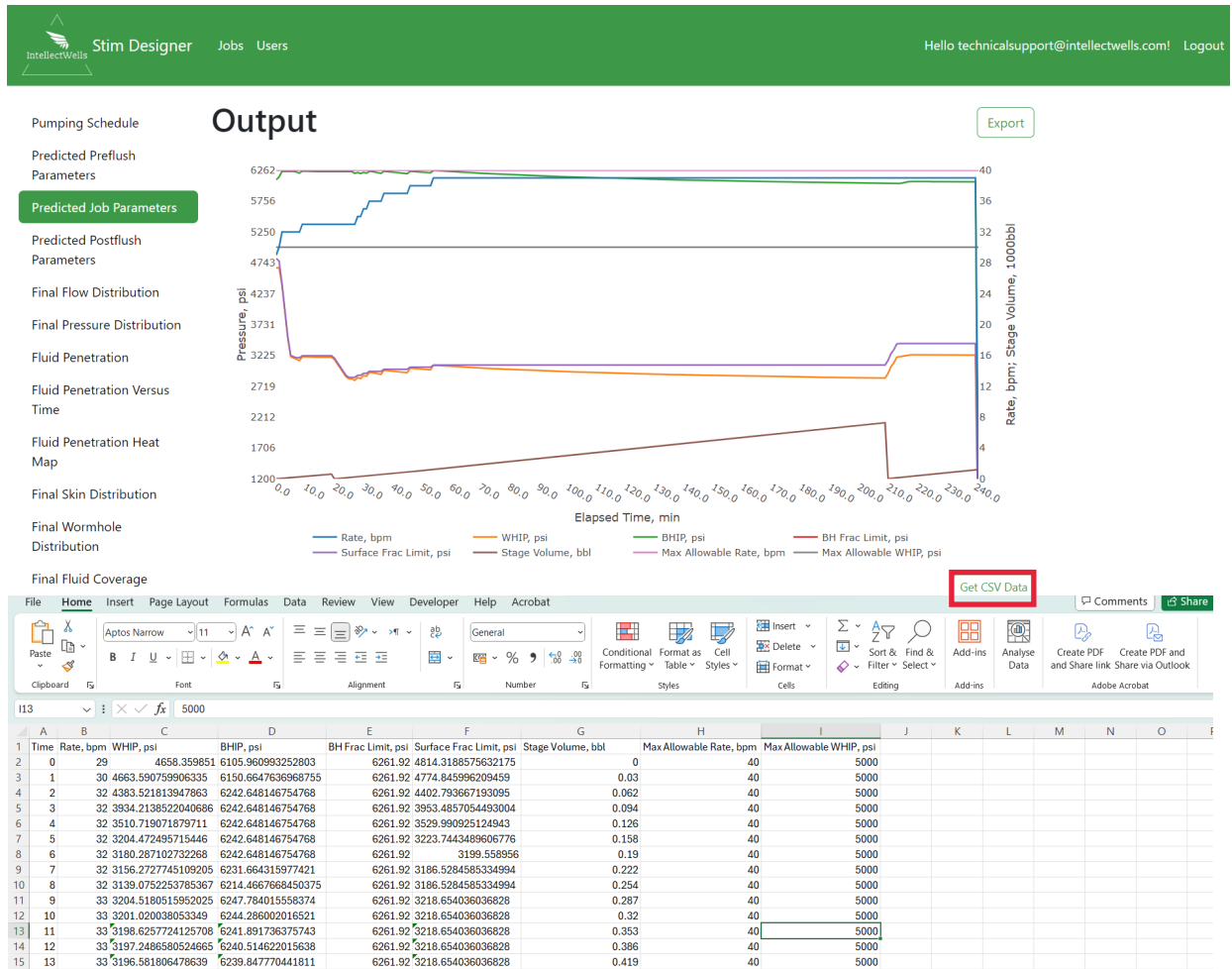
13. Predicted Job Parameters

13.1. Select “Predicted Job Parameters” tab to view an interactive graph illustrating the anticipated job parameters versus job elapsed time during the entire job.

13.2. Hover the mouse over any part of the graph to read data pairs representing each parameter’s time dependence.

13.3. Click the “csv” button in the lower right corner of the page to download and open a csv file that contains the application generated raw data used to create the graph.

13.4. If desired, save the downloaded csv file to your local machine for further data processing using other applications on your local machine.





StimDesigner User Guide

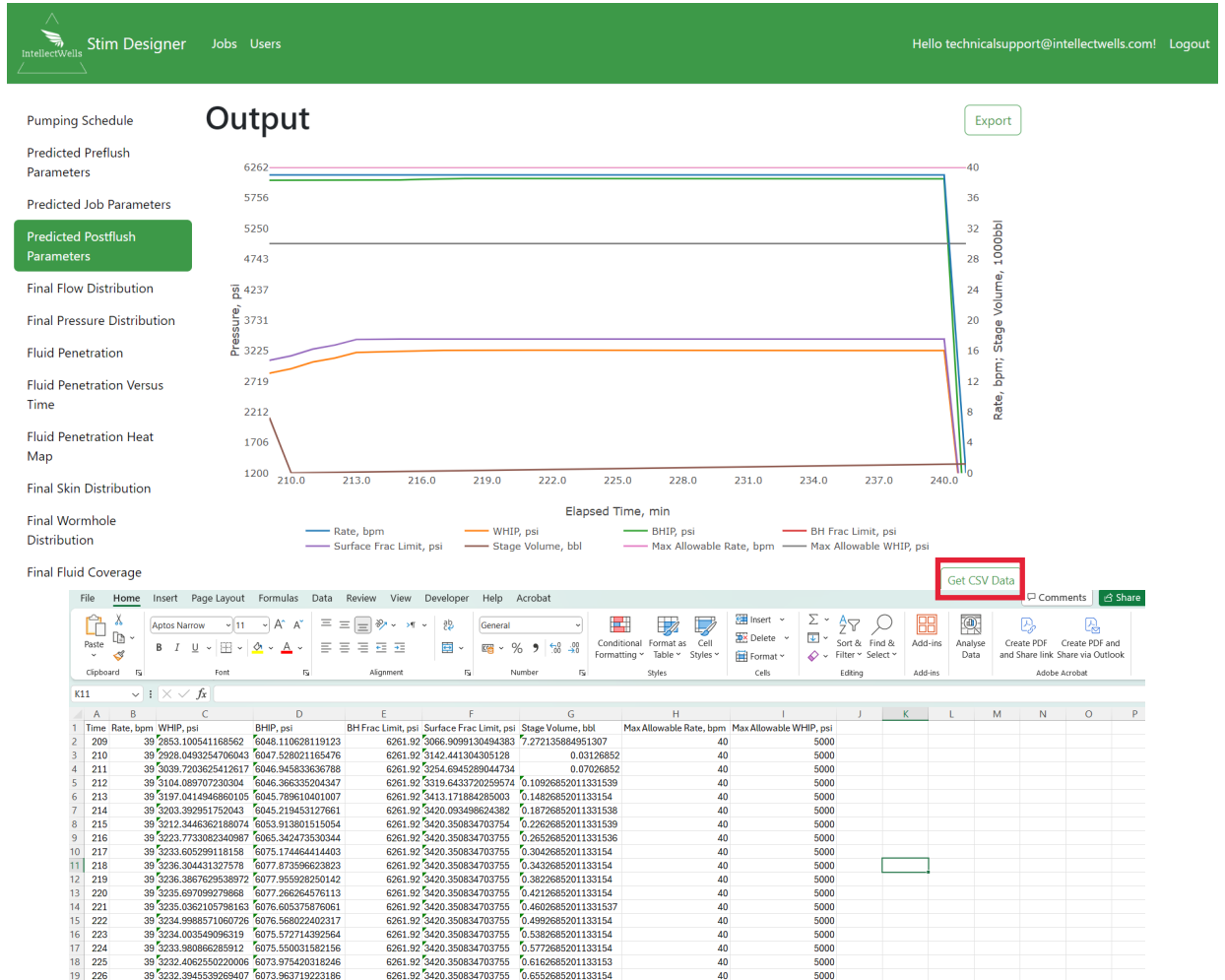
14. Predicted Post flush Parameters

14.1. Select “Predicted Postflush Parameters” tab to view an interactive graph illustrating the anticipated job parameters versus job elapsed time during the postflush stage.

14.2. Hover the mouse over any part of the graph to read data pairs representing each parameter’s time dependence.

14.3. Click the “csv” button in the lower right corner of the page to download and open a csv file that contains the application generated raw data used to create the graph.

14.4. If desired, save the downloaded csv file to your local machine for further data processing using other applications on your local machine.





StimDesigner User Guide

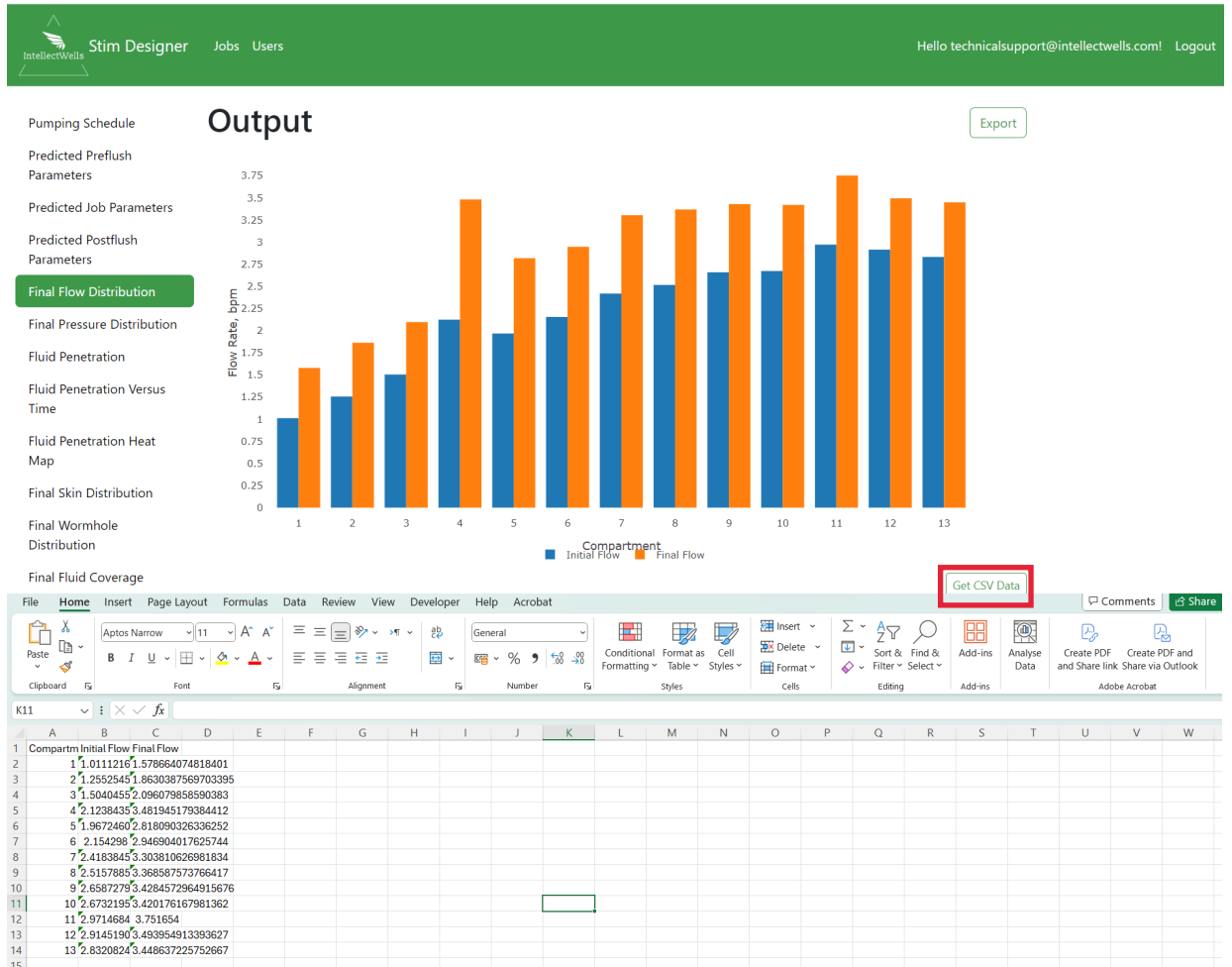
15. Final Flow Distribution

15.1. Select “Final Flow Distribution” tab to view a bar chart showing snapshots of initial and final flow distributions through the various compartments across the lateral section.

15.2. Hover the mouse over any part of the graph to read data pairs representing each compartment’s initial and final share of the total flow.

15.3. Click the “csv” button in the lower right corner of the page to download and open a csv file that contains the application generated raw data used to create the chart.

15.4. If desired, save the downloaded csv file to your local machine for further data processing using other applications on your local machine.

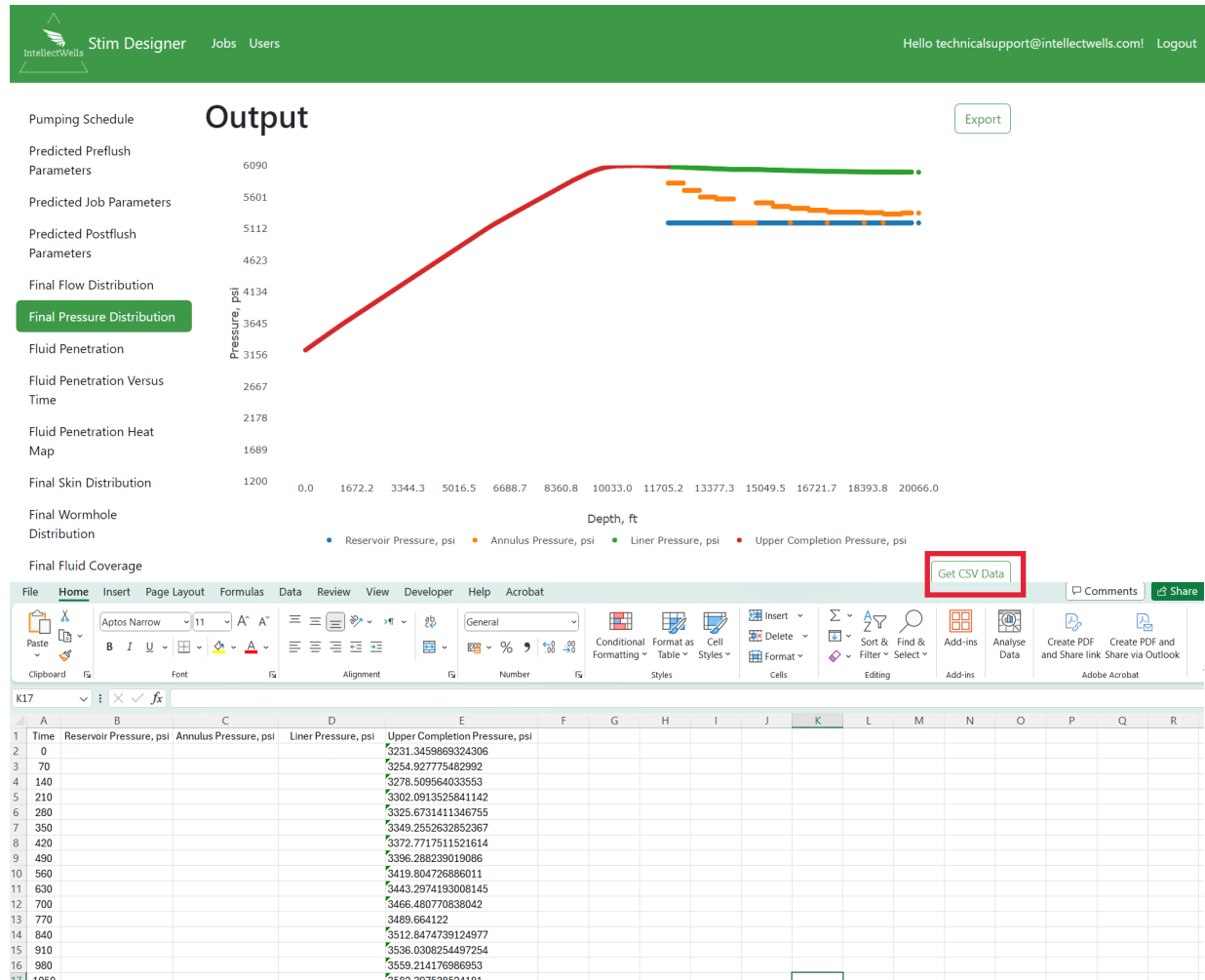




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16. Final Pressure Distribution

- 16.1. Select “Final Pressure Distribution” tab to view a graph showing a snapshot of the final pressure distribution versus depth inside upper completion, lower completion, annulus and formation.
- 16.2. Hover the mouse over any part of the graph to read data pairs representing pressure at each depth point.
- 16.3. Click the “csv” button in the lower right corner of the page to download and open a csv file that contains the application generated raw data used to create the graph.
- 16.4. If desired, save the downloaded csv file to your local machine for further data processing using other applications on your local machine.



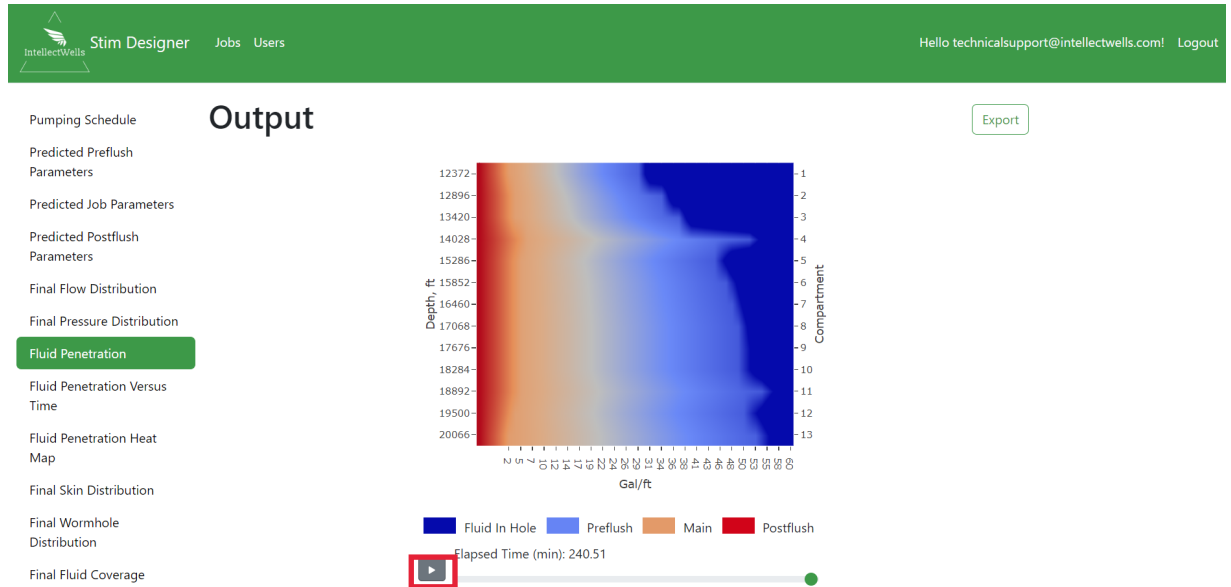


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17. Fluid Penetration

17.1. Select “Fluid Penetration” tab and press the “Play” button to play back the simulated job and see when and where the penetration of each fluid took place and in what quantities.

17.2. Press the “Pause” button to view a snapshot of fluid penetration at any point in time during job execution.





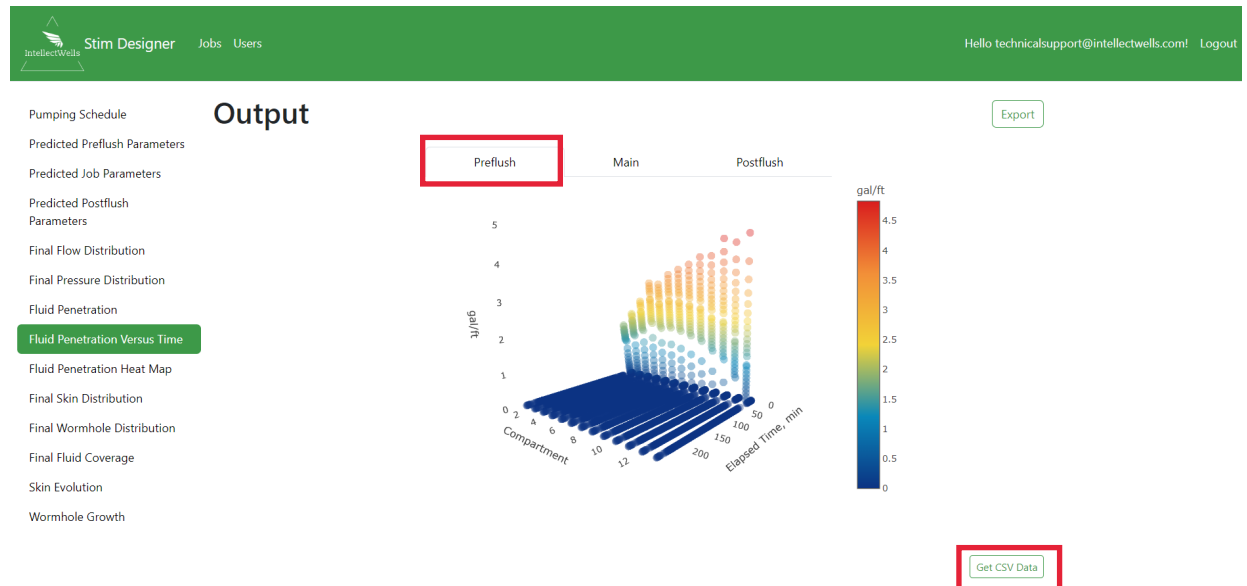
StimDesigner User Guide

18. Fluid Penetration versus Time

18.1. Select “Fluid Distribution versus Time” tab from the left side menu bar and the “Preflush” tab from the top menu bar to view a 3d scatter plot showing preflush penetration in gal/ft through each compartment as a function of elapsed time.

18.2. Rotate, flip, or zoom in or out to view the plot from different angles and to get a better understanding of how the preflush was being distributed across the lateral during job execution.

18.3. Click the “csv” button in the lower right corner of the page to download and open a csv file that contains the application generated raw data used to create the plot.





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18.4. If desired, save the downloaded csv file to your local machine for further data processing using other applications on your local machine.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
Elapsed Time, min	Compartment	gal/ft																				
0	1	0																				
0.524749	1	0																				
1.0320065	1	0																				
1.5229008	1	0																				
1.9984546	1	0																				
2.4740085	1	0																				
2.9495623	1	0																				
3.4251162	1	0																				
3.9006700	1	0																				
4.3762238	1	0																				
4.8517777	1	0																				
5.0419992	1	0																				
6.1058765	1	0																				
6.6037711	1	0.049188																				
7.1237169	1	0.099789																				
7.6629513	1	0.1524359789379575																				
8.227819	1	0.21776535392415736																				
8.9061231	1	0.28381735599104385																				
9.5948075	1	0.35582368015640575																				
10.347799	1	0.4419872786854606																				
11.250670	1	0.540639655911999																				
12.285578	1	0.6569283526796461																				
13.506277	1	0.8003615089215507																				
15.012187	1	0.9879409443844973																				
16.981643	1	1.2730347386482639																				



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18.5. Select the “Main” tab from the top menu bar to view a 3d scatter plot showing main fluid penetration in gal/ft through each compartment as a function of elapsed time.

18.6. Rotate, flip, or zoom in or out to view the plot from different angles and to get a better understanding of how the main treatment was being distributed across the lateral during job execution.

18.7. Click the “csv” button in the lower right corner of the page to download and open a csv file that contains the application generated raw data used to create the plot.

18.8. If desired, save the downloaded csv file to your local machine for further data processing using other applications on your local machine.

The screenshot displays the StimDesigner software interface. The top navigation bar includes the IntellectWells logo, the text "Stim Designer Jobs Users", and a user greeting "Hello technicalsupport@intellectwells.com! Logout". The main content area is titled "Output" and features a sidebar menu on the left with options like "Pumping Schedule", "Predicted Preflush Parameters", and "Fluid Penetration Versus Time" (which is highlighted). The central part of the interface shows a 3D scatter plot of fluid penetration (gal/ft) over time (min) for various compartments (0 to 12). The plot is color-coded by penetration depth, with a color scale on the right ranging from 0 to 45 gal/ft. The "Main" tab is selected and highlighted with a red box. Below the plot, there is a "Get CSV Data" button, also highlighted with a red box. At the bottom, a Microsoft Excel spreadsheet is open, showing a table with columns for "Elapsed Time, min", "Compartment", and "gal/ft". The data rows show values for each compartment from 0 to 12 over a period of 16.981643 minutes.

Elapsed Time, min	Compartment	gal/ft
0	1	0
0.524749	1	0
1.0320065	1	0
1.5229008	1	0
1.9984546	1	0
2.4740085	1	0
2.9495623	1	0
3.4251162	1	0
3.9006700	1	0
4.3762238	1	0
4.8517777	1	0
5.3273315	1	0
5.8028854	1	0
6.2784392	1	0
6.7539931	1	0
7.2295469	1	0
7.7051008	1	0
8.1806546	1	0
8.6562085	1	0
9.1317623	1	0
9.6073162	1	0
10.0828700	1	0
10.5584239	1	0
11.0339777	1	0
11.5095316	1	0
11.9850854	1	0
12.4606393	1	0
12.9361931	1	0
13.4117470	1	0
13.8873008	1	0
14.3628547	1	0
14.8384085	1	0
15.3139624	1	0
15.7895162	1	0
16.2650701	1	0
16.7406239	1	0
17.2161778	1	0
17.6917316	1	0
18.1672855	1	0
18.6428393	1	0
19.1183932	1	0
19.5939470	1	0
20.0695009	1	0
20.5450547	1	0
21.0206086	1	0
21.4961624	1	0
21.9717163	1	0
22.4472701	1	0
22.9228240	1	0
23.3983778	1	0
23.8739317	1	0
24.3494855	1	0
24.8250394	1	0
25.3005932	1	0
25.7761471	1	0
26.2517009	1	0
26.7272548	1	0
27.2028086	1	0
27.6783625	1	0
28.1539163	1	0
28.6294702	1	0
29.1050240	1	0
29.5805779	1	0
30.0561317	1	0
30.5316856	1	0
31.0072394	1	0
31.4827933	1	0
31.9583471	1	0
32.4339010	1	0
32.9094548	1	0
33.3850087	1	0
33.8605625	1	0
34.3361164	1	0
34.8116702	1	0
35.2872241	1	0
35.7627779	1	0
36.2383318	1	0
36.7138856	1	0
37.1894395	1	0
37.6649933	1	0
38.1405472	1	0
38.6161010	1	0
39.0916549	1	0
39.5672087	1	0
40.0427626	1	0
40.5183164	1	0
40.9938703	1	0
41.4694241	1	0
41.9449780	1	0
42.4205318	1	0
42.8960857	1	0
43.3716395	1	0
43.8471934	1	0
44.3227472	1	0
44.7983011	1	0
45.2738549	1	0
45.7494088	1	0
46.2249626	1	0
46.7005165	1	0
47.1760703	1	0
47.6516242	1	0
48.1271780	1	0
48.6027319	1	0
49.0782857	1	0
49.5538396	1	0
50.0293934	1	0
50.5049473	1	0
50.9805011	1	0
51.4560550	1	0
51.9316088	1	0
52.4071627	1	0
52.8827165	1	0
53.3582704	1	0
53.8338242	1	0
54.3093781	1	0
54.7849319	1	0
55.2604858	1	0
55.7360396	1	0
56.2115935	1	0
56.6871473	1	0
57.1627012	1	0
57.6382550	1	0
58.1138089	1	0
58.5893627	1	0
59.0649166	1	0
59.5404704	1	0
60.0160243	1	0
60.4915781	1	0
60.9671320	1	0
61.4426858	1	0
61.9182397	1	0
62.3937935	1	0
62.8693474	1	0
63.3449012	1	0
63.8204551	1	0
64.2960089	1	0
64.7715628	1	0
65.2471166	1	0
65.7226705	1	0
66.1982243	1	0
66.6737782	1	0
67.1493320	1	0
67.6248859	1	0
68.1004397	1	0
68.5759936	1	0
69.0515474	1	0
69.5271013	1	0
70.0026551	1	0
70.4782090	1	0
70.9537628	1	0
71.4293167	1	0
71.9048705	1	0
72.3804244	1	0
72.8559782	1	0
73.3315321	1	0
73.8070859	1	0
74.2826398	1	0
74.7581936	1	0
75.2337475	1	0
75.7093013	1	0
76.1848552	1	0
76.6604090	1	0
77.1359629	1	0
77.6115167	1	0
78.0870706	1	0
78.5626244	1	0
79.0381783	1	0
79.5137321	1	0
79.9892860	1	0
80.4648398	1	0
80.9403937	1	0
81.4159475	1	0
81.8915014	1	0
82.3670552	1	0
82.8426091	1	0
83.3181629	1	0
83.7937168	1	0
84.2692706	1	0
84.7448245	1	0
85.2203783	1	0
85.6959322	1	0
86.1714860	1	0
86.6470399	1	0
87.1225937	1	0
87.5981476	1	0
88.0737014	1	0
88.5492553	1	0
89.0248091	1	0
89.5003630	1	0
89.9759168	1	0
90.4514707	1	0
90.9270245	1	0
91.4025784	1	0
91.8781322	1	0
92.3536861	1	0
92.8292399	1	0
93.3047938	1	0
93.7803476	1	0
94.2559015	1	0
94.7314553	1	0
95.2070092	1	0
95.6825630	1	0
96.1581169	1	0
96.6336707	1	0
97.1092246	1	0
97.5847784	1	0
98.0603323	1	0
98.5358861	1	0
99.0114400	1	0
99.4869938	1	0
99.9625477	1	0
100.4381015	1	0
100.9136554	1	0
101.3892092	1	0
101.8647631	1	0
102.3403169	1	0
102.8158708	1	0
103.2914246	1	0
103.7669785	1	0
104.2425323	1	0
104.7180862	1	0
105.1936400	1	0
105.6691939	1	0
106.1447477	1	0
106.6203016	1	0
107.0958554	1	0
107.5714093	1	0
108.0469631	1	0
108.5225170	1	0
108.9980708	1	0
109.4736247	1	0
109.9491785	1	0
110.4247324	1	0
110.9002862	1	0
111.3758401	1	0
111.8513939	1	0
112.3269478	1	0
112.8025016	1	0
113.2780555	1	0
113.7536093	1	0
114.2291632	1	0
114.7047170	1	0
115.1802709	1	0
115.6558247	1	0
116.1313786	1	0
116.6069324	1	0
117.0824863	1	0
117.5580401	1	0
118.0335940	1	0
118.5091478	1	0
118.9847017	1	0
119.4602555	1	0
119.9358094	1	0
120.4113632	1	0
120.8869171	1	0
121.3624709	1	0
121.8380248	1	0
122.3135786	1	0
122.7891325	1	0
123.2646863	1	0
123.7402402	1	0
124.2157940	1	0
124.6913479	1	0
125.1669017	1	0
125.6424556	1	0
126.1180094	1	0
126.5935633	1	0
127.0691171	1	0
127.5446710	1	0
128.0202248	1	0
128.4957787	1	0
128.9713325	1	0
129.4468864	1	0
129.9224402	1	0
130.3979941	1	0
130.8735479	1	0
131.3491018	1	0
131.8246556	1	0
132.3002095	1	0
132.7757633	1	0
133.2513172	1	0
133.7268710	1	0
134.2024249	1	0
134.6779787	1	0
135.1535326	1	0
135.6290864	1	0
136.1046403	1	0
136.5801941	1	0
137.0557480	1	0
137.5313018	1	0
138.0068557	1	0
138.4824095	1	0
138.9579634	1	0
139.4335172	1	0
139.9090711	1	0
140.3846249	1	0
140.8601788	1	0
141.3357326	1	0
141.8112865	1	0
142.2868403	1	0
142.7623942	1	0
143.2379480	1	0
143.7135019	1	0
144.1890557	1	0
144.6646096	1	0
145.1401634	1	0
145.6157173	1	0
146.0912711	1	0
146.5668250	1	0
147.0423788	1	0
147.5179327	1	0
147.9934865	1	0
148.4690404	1	0
148.9445942	1	0
149.4201481	1	0
149.8957019	1	0
150.3712558	1	0
150.8468096	1	0
151.3223635	1	0
151.7979173	1	0
152.2734712	1	0
152.7490250	1	0
153.2245789	1	0
153.7001327	1	0
154.1756866	1	0
154.6512404	1	0
155.1267943	1	0
155.6023481	1	0
156.0779020	1	0
156.5534558	1	0
157.0290097	1	0
157.5045635	1	0
157.9801174	1	0
158.4556712	1	0
158.9312251	1	0
159.4067789	1	0
159.8823328	1	0
160.3578866	1	0
160.8334405	1	0
161.3089943	1	0
161.7845482	1	0
162.2601020	1	0
162.7356559	1	0
163.2112097	1	0
163.6867636	1	0
164.1623174	1	0
164.6378713	1	0
165.1134251	1	0
165.5889790	1	0
166.0645328	1	0
166.5400867	1	0
167.0156405	1	0
167.4911944	1	0
167.9667482	1	0
168.4423021	1	0
168.9178559	1	0
169.3934098	1	0
169.8689636	1	0
170.3445175	1	0
170.8200713	1	0
171.2956252	1	0
171.7711790	1	0
172.2467329	1	0
172.7222867	1	0
173.1978406	1	0
173.6733944	1	0
174.1489483	1	0
174.6245021	1	0
175.1000560	1	0
175.5756098	1	0
176.0511637	1	0
176.5267175	1	0
177.00		



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18.9. Select the “Postflush” tab from the top menu bar to view a 3d scatter plot showing postflush penetration in gal/ft through each compartment as a function of elapsed time.

18.10. Rotate, flip, or zoom in or out to view the plot from different angles and to get a better understanding of how the postflush was being distributed across the lateral during job execution.

18.11. Click the “csv” button in the lower right corner of the page to download and open a csv file that contains the application generated raw data used to create the plot.

18.12. If desired, save the downloaded csv file to your local machine for further data processing using other applications on your local machine.

The screenshot shows the Stim Designer software interface. The top navigation bar includes the IntellectWells logo, the text "Stim Designer", and user information "Jobs Users" and "Hello technicalsupport@intellectwells.com! Logout". The main content area is titled "Output" and features a list of analysis options on the left, including "Pumping Schedule", "Predicted Preflush Parameters", "Predicted Job Parameters", "Predicted Postflush Parameters", "Final Flow Distribution", "Final Pressure Distribution", "Fluid Penetration", "Fluid Penetration Versus Time" (highlighted in green), "Fluid Penetration Heat Map", "Final Skin Distribution", "Final Wormhole Distribution", "Final Fluid Coverage", "Skin Evolution", and "Wormhole Growth". The central 3D scatter plot shows fluid penetration (gal/ft) on the vertical axis (0 to 7), Elapsed Time (min) on the horizontal axis (0 to 200), and Compartment on the depth axis (0 to 12). The plot is titled "Postflush" and shows a color-coded distribution of fluid penetration over time and across compartments. A color scale on the right indicates penetration values from 0 (blue) to 6 (red). The "Get CSV Data" button is highlighted with a red box in the bottom right corner of the plot area. Below the plot is a Microsoft Excel spreadsheet showing the raw data used for the plot. The spreadsheet has columns for Elapsed Time (min), Compartment, and gal/ft. The data points are as follows:

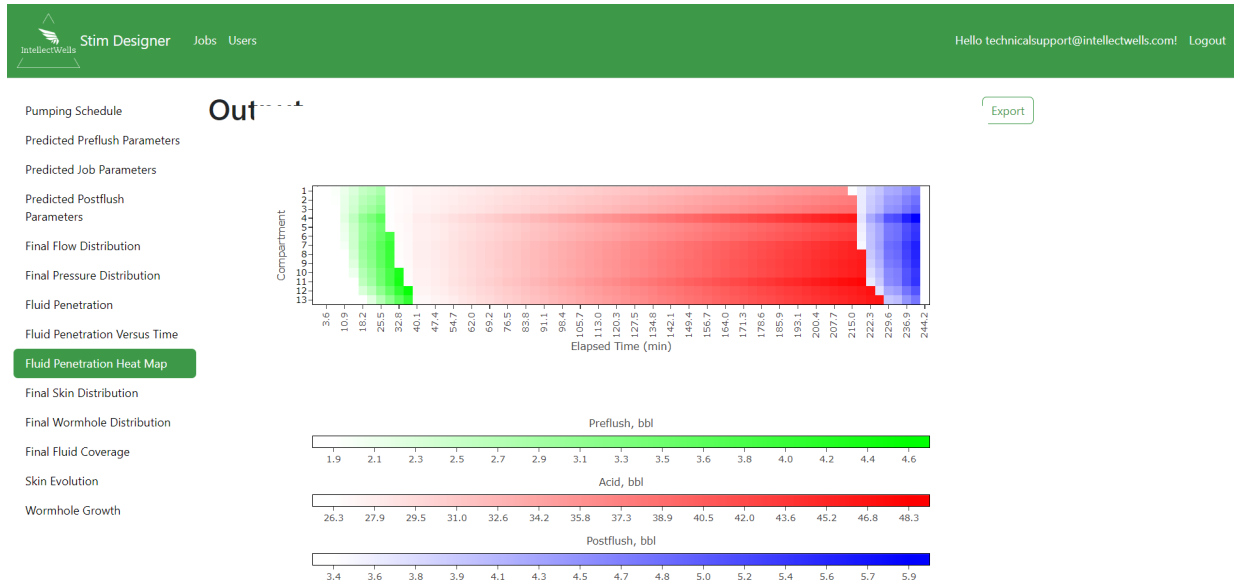
Elapsed Time, min	Compartment	gal/ft
215	213.20335	13
216	213.35943	13
217	214.23235	13
218	214.64088	13
219	215.08083	13
220	215.53902	13
221	216.0211	13
222	216.61868	13
223	217.23853	13
224	217.92339	13
225	218.75156	13
226	219.71191	13
227	220.85827	13
228	222.28462	13
229	224.16996	13
230	227.07946	13
231	232.51220	13
232	233.51220	13
233	234.51220	13
234	235.51220	13
235	236.51220	13
236	237.51220	13
237	238.51220	13
238	239.51220	13
239	239.51220	13



19. Fluid Penetration Heat Map

19.1. Select “Fluid Penetration Heat Map” tab to view a snapshot of final fluid penetration across the entire lateral as a function of elapsed time. Different fluids are represented by different colours and colour intensity is a measure of fluid volumes.

19.2. Get an idea of the time delay each lateral section experiences in receiving a certain fluid by checking the curvatures of the different fluid interfaces.





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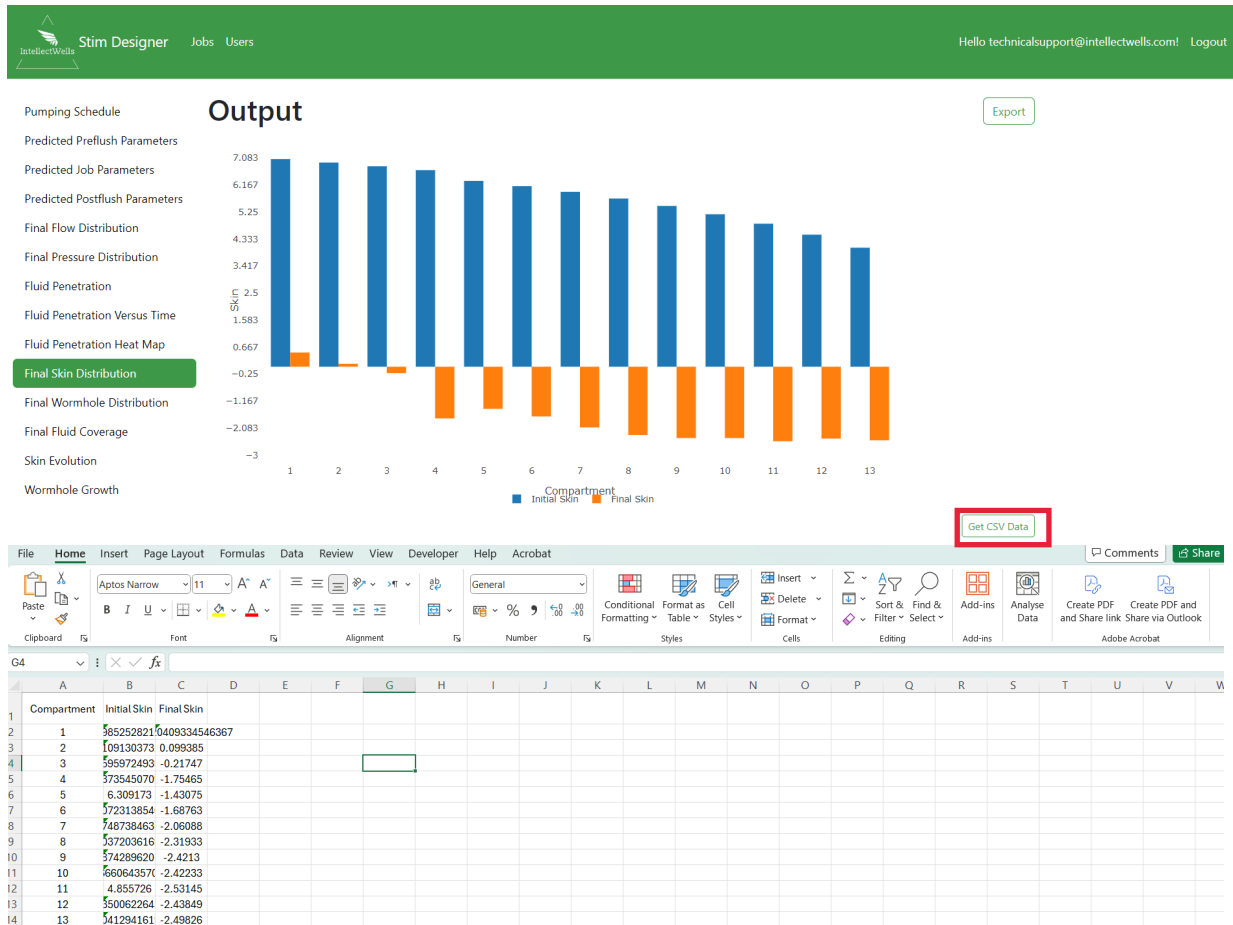
20. Final Skin Distribution

20.1. Select “Final Skin Distribution” tab to view a bar chart showing snapshots of initial and final skin distributions across the lateral section.

20.2. Hover the mouse over any part of the chart to read data pairs representing initial and final skin values across all compartments.

20.3. Click the “csv” button in the lower right corner of the page to download and open a csv file that contains the application generated raw data used to create the chart.

20.4. If desired, save the downloaded csv file to your local machine for further data processing using other applications on your local machine.





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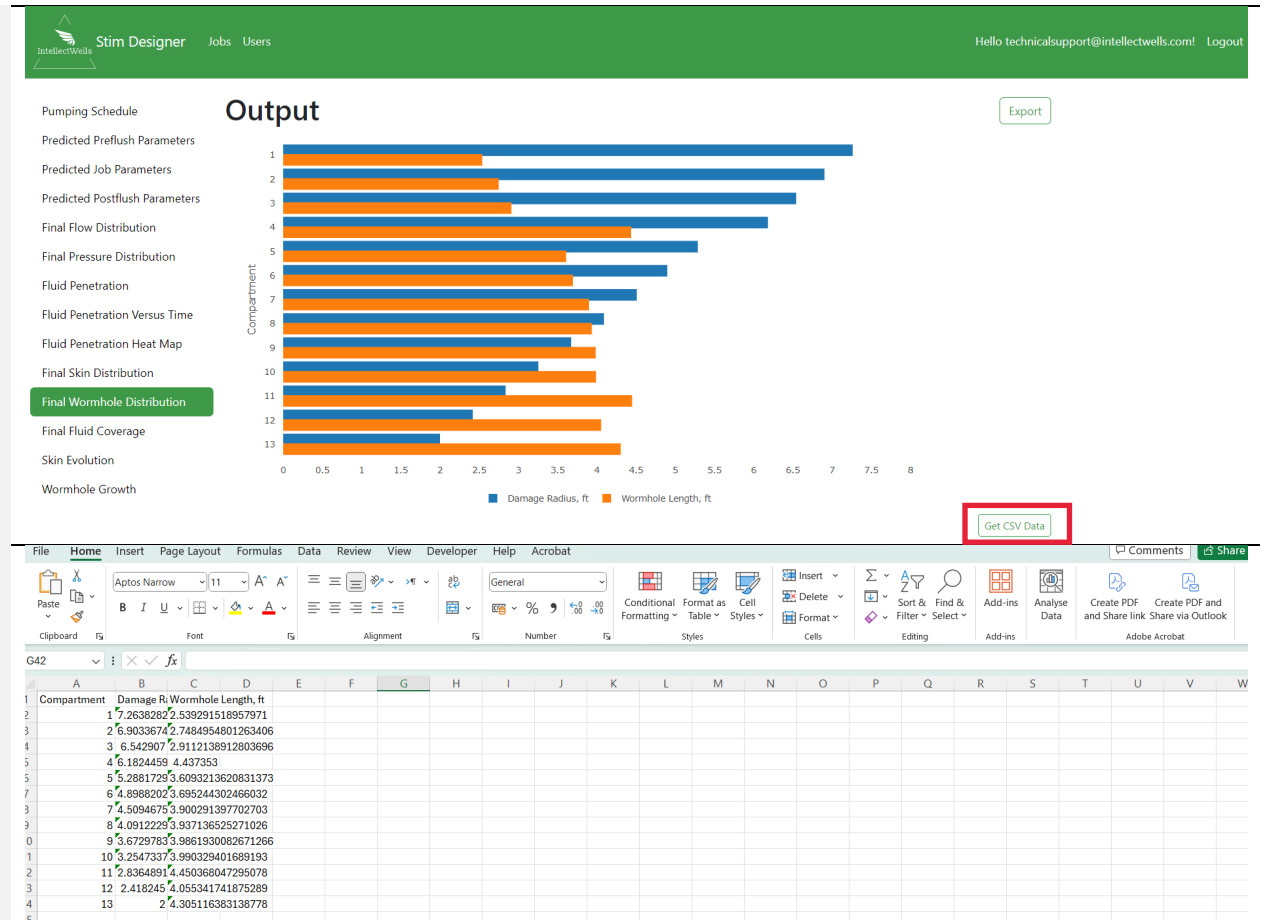
21. Final Wormhole Distribution

21.1. Select “Final Wormhole Distribution” tab to view a bar chart showing snapshots of final wormhole length values versus damage radii across the lateral section.

21.2. Hover the mouse over any part of the chart to read data pairs representing final wormhole length and damage radius values across all compartments.

21.3. Click the “csv” button in the lower right corner of the page to download and open a csv file that contains the application generated raw data used to create the chart.

21.4. If desired, save the downloaded csv file to your local machine for further data processing using other applications on your local machine.





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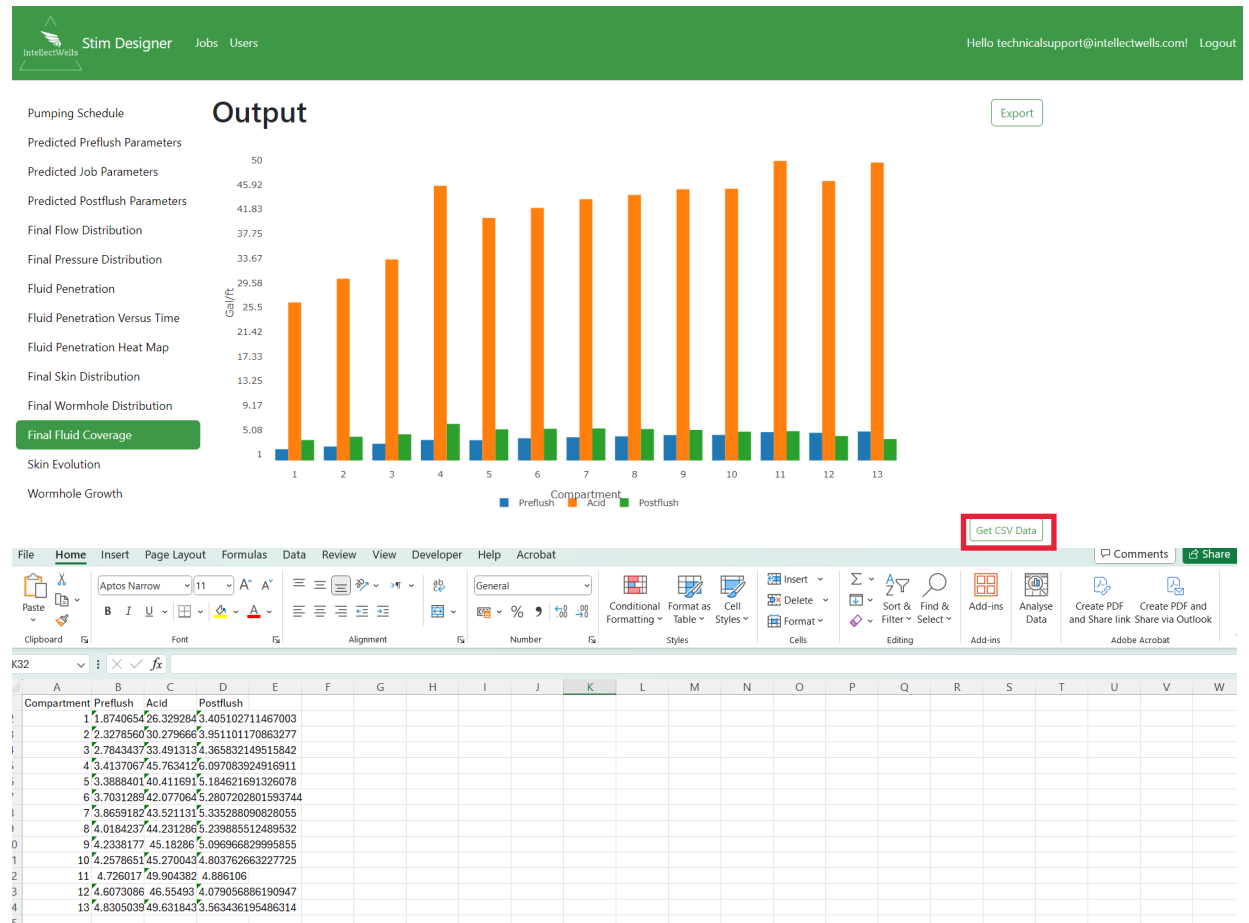
22. Final Fluid Coverage

22.1. Select “Final Fluid Coverage” tab to view a bar chart showing snapshots of final fluid coverage across the lateral section for all pumped fluids.

22.2. Hover the mouse over any part of the chart to read data pairs representing each fluid’s final coverage per compartment.

22.3. Click the “csv” button in the lower right corner of the page to download and open a csv file that contains the application generated raw data used to create the chart.

22.4. If desired, save the downloaded csv file to your local machine for further data processing using other applications on your local machine.





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23. Skin Evolution versus Time and Depth

23.1. Select the “Skin Evolution” tab to view a 3d scatter plot showing skin evolution across lateral length versus job elapsed time.

23.2. Rotate, flip, or zoom in or out to view the plot from different angles and to get a better understanding of how skin evolved across the lateral during job execution.

23.3. Click the “csv” button in the lower right corner of the page to download and open a csv file that contains the application generated raw data used to create the plot.

23.4. If desired, save the downloaded csv file to your local machine for further data processing using other applications on your local machine.

The screenshot displays the StimDesigner interface. The top navigation bar includes the IntellectWells logo, 'Stim Designer', 'Jobs', 'Users', and a user greeting 'Hello technicalsupport@intellectwells.com! Logout'. The main area is titled 'Output' and features a 3D scatter plot showing skin evolution. The plot's vertical axis is 'Skin' (ranging from -2 to 7), the horizontal axis is 'Elapsed Time, min' (ranging from 0 to 210), and the depth axis is 'Compartment' (ranging from -2 to 8). A color scale on the right indicates skin values from -2 (blue) to 7 (red). A 'Get CSV Data' button is highlighted with a red box in the bottom right corner of the plot area. Below the plot is a Microsoft Excel spreadsheet with the following data:

Elapsed Time, min	Compartment	Skin
0	1	7.049852528210042
0.524749074	1	7.049852528210042
1.032006512444138	1	7.049852528210042
1.5229008075925252	1	7.049852528210042
1.9984546580175254	1	7.049852528210042
2.474008504425255	1	7.049852528210042
2.9495623528675257	1	7.049852528210042
3.425116201292526	1	7.049852528210042
3.900670049717526	1	7.049852528210042
4.376223898142526	1	7.049852528210042
4.851777746567526	1	7.049852528210042
5.041999285937527	1	7.049852528210042
6.1058765659375265	1	7.049852528210042
6.603771132977527	1	7.049852528210042
7.123716974548436	1	7.049852528210042
7.662951372817725	1	7.049852528210042
8.227818817	1	7.049852528210042
8.906123183434106	1	7.049852528210042
9.594807560753415	1	7.049852528210042
10.347799249044755	1	7.049852528210042



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24. Wormhole Growth versus Time and Depth

24.1. Select the “Wormhole Growth” tab to view a 3d scatter plot showing wormhole growth across lateral length versus job elapsed time.

24.2. Rotate, flip, or zoom in or out to view the plot from different angles and to get a better understanding of how wormhole length increased across the lateral during job execution.

24.3. Click the “csv” button in the lower right corner of the page to download and open a csv file that contains the application generated raw data used to create the plot.

24.4. If desired, save the downloaded csv file to your local machine for further data processing using other applications on your local machine.

The screenshot displays the Stim Designer software interface. The top navigation bar includes the IntellectWells logo, 'Stim Designer', 'Jobs', 'Users', and a user profile icon. The main content area is titled 'Output' and lists various simulation results. The 'Wormhole Growth' tab is selected, showing a 3D scatter plot. The plot's vertical axis is 'Wormhole Growth, ft' (0.5 to 5), the horizontal axis is 'Elapsed Time, min' (0 to 210), and the depth axis is 'Compartment' (1 to 13). A color scale on the right indicates growth from 0.5 ft (blue) to 4 ft (red). A 'Get CSV Data' button is highlighted with a red box in the bottom right corner of the plot area.

Elapsed Time, min	Compartment	Wormhole Growth, ft
0	1	0.354
0.524749074	1	0.354
1.02009512444	1	0.354
1.52290087592	1	0.354
1.988454656017	1	0.354
2.47408804442	1	0.354
2.949562352967	1	0.354
3.423116201292	1	0.354
3.90067004917	1	0.354
4.378223888142	1	0.354
4.851777746567	1	0.354
5.341899295837	1	0.354
5.810587565837	1	0.354
6.303771132977	1	0.354
6.7123718974548	1	0.354
7.662951372817	1	0.354
8.2278188137	1	0.354
8.906123183434	1	0.354
9.594807560752	1	0.354
10.34779924904	1	0.354
11.25067047638	1	0.354
12.28557870214	1	0.354
13.5092775474E	1	0.354
15.01218770457	1	0.354
16.98164334987	1	0.354
19.97489667452	1	0.354



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25. Final Report

25.1. Click the “Generate” button in the upper right corner of any output page to generate a fully detailed pdf report inclusive of all input and output data.

25.2. Click the pdf file link that pops up once the file report generation is complete to download and open the report.

25.3. To keep the file in the “Downloads” folder, click save.

25.4. Otherwise, click “Save as” and browse to the folder on your local machine where the file is to be stored.