





Select one of the sizings to continue working on or begin a new sizing by left-clicking the **“Create Sizing”** button above the table on the right-hand side of the window.

1. Log into SpyGlass™
2. Left-click the **"Create Sizing"** button

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3. Enter the associated data for your sizing:
 - a. Enter a Sizing Name
 - b. Select the Well
 - c. Select the Appropriate Unit System
 - d. Select **Save** in the Top Right

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The screenshot shows the 'SpyGlass - Scenario Information' page. The top navigation bar includes 'My Sizings', 'All Sizings', 'Summit', 'User', 'Legacy Importer', 'Admin', 'Logout', and a settings icon. Below the navigation bar, there's a header section with '8/29/2022 - Demo Sizing', 'Us Oil Field', and 'Unknown'. A red circle highlights the 'Save' button in the top right corner of the main content area. The main content area has tabs for 'Info', 'Well', 'Parameters', 'Schematic', 'Evaluations', and 'Demo Scenario 2'. The 'Info' tab is active, showing 'Sizing Info' and 'Scenario Info' sections. The 'Sizing Info' section has fields for Name, Well, Customer, Unit System, and Disposition. The 'Scenario Info' section has fields for Title, Reason, and Installed.

4. The tabs on the top left will be enabled once saved. Select the “**Well**” tab and enter the appropriate input data. The tab key can be used to navigate from one box to the next. Two types of data entry exist in SpyGlass:
 - a. A searchable table nested within the box that is clicked on
 - b. A box for numerical entry

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The screenshot shows the 'SpyGlass - Well Information' page. The top navigation bar is the same as the previous screenshot. Below the navigation bar, there's a header section with '8/29/2022 - Demo Sizing', 'Us Oil Field', and 'Unknown'. A red circle highlights the 'Well' tab in the main content area. The main content area has tabs for 'Info', 'Well', 'Parameters', 'Schematic', 'Evaluations', and 'Demo Scenario 2'. The 'Well' tab is active, showing 'Well Completion' and 'Well Test' sections. The 'Well Completion' section has fields for Top Production Casing, Top Casing Length, MD, Top of Perfs, TVD, and Top of Perfs. The 'Well Test' section has a 'Well Test' dropdown, 'Calc PI' button, and input fields for Liquid Input, Gas Input, and Downhole.

- Once the Well page is completed, select the **"Parameters"** tab on the top left of the screen

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Well Completion

Top Production Casing: 7 x 32 (lb/ft)

Top Casing Length: 10,000 Feet

Name	Name (Metric)	OD (in)	ID (in)	Drift (in)	Coupling OD (in)	PPF
5 x 24.1 (lb/ft)	127 x 35.86 (kg/m)	5	4	3.875	5.563	24.1
5 x 23.2 (lb/ft)	127 x 34.53 (kg/m)	5	4.044	3.919	5.563	23.2
5 x 21.4 (lb/ft)	127 x 31.85 (kg/m)	5	4.126	4.001	5.563	21.4
5 x 18 (lb/ft)	127 x 26.79 (kg/m)	5	4.276	4.151	5.563	18
5 x 15 (lb/ft)	127 x 22.32 (kg/m)	5	4.408	4.283	5.563	15
5 1/2 x 28.4 (lb/ft)	139.7 x 42.2592 (kg/m)	5.5	4.44	4.315	6.05	28.4
5 1/2 x 26.8 (lb/ft)	139.7 x 39.8784 (kg/m)	5.5	4.5	4.375	6.05	26.8
5 1/2 x 26 (lb/ft)	139.7 x 38.688 (kg/m)	5.5	4.548	4.5	6.05	26
5 1/2 x 23 (lb/ft)	139.7 x 34.23 (kg/m)	5.5	4.67	4.545	6.05	23
5 1/2 x 20 (lb/ft)	139.7 x 29.76 (kg/m)	5.5	4.778	4.653	6.05	20
5 1/2 x 17 (lb/ft)	139.7 x 25.3 (kg/m)	5.5	4.892	4.767	6.05	17
5 1/2 x 15.5 (lb/ft)	139.7 x 23.07 (kg/m)	5.5	4.95	4.825	6.05	15.5
5 1/2 x 14 (lb/ft)	139.7 x 20.83 (kg/m)	5.5	5.012	4.887	6.05	14
6 5/8 x 32 (lb/ft)	168.3 x 47.62 (kg/m)	6.625	5.675	5.55	7.39	32
7 x 36 (lb/ft)	177.8 x 56.55 (kg/m)	7	5.92	5.795	7.656	36
7 x 35 (lb/ft)	177.8 x 52.09 (kg/m)	7	6.004	5.879	7.656	35
7 x 32 (lb/ft)	177.8 x 47.62 (kg/m)	7	6.094	5.969	7.656	32
7 x 29 (lb/ft)	177.8 x 43.16 (kg/m)	7	6.184	6.059	7.656	29

- The **"Parameters"** tab is where you will select the equipment for your design. Four additional functionalities may assist you in designing your ESP
 - First, you can enable the charts by selecting the **graph icon** next to the scenario dropdown. The pump table and a dropdown menu for other necessary charts will appear

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Sizing Parameters

Info Well **Parameters** Schematic Evaluations Demo Scenario 2

Created By Benjamin Hoekstra Saved August 29-2022 11:35:06

Data type: Pump Table

Pump	ROR	Q @ INT	Q @ DIS	Gas @ INT	Gas @ DIS	Free Allowed Gas	Lift	Density @ INT	Density @ DIS	Shaft Limit (STD)	Shaft Limit (HS)
SF2250 TS3	503 - 2335	2072	2069	0.00 %	0.00 %	28.9 %	4705	56.84	56.91	107	176
SFGH2500 TS3	155 - 2629	2072	2072	0.00 %	0.00 %	84.0 %	277	56.84	56.84	107	176

Operating Parameters

Top Tubing: 2 7/8 x 8.7 (lb/ft)

Top Tubing Length: 9,000 Feet

Target Liquid Rate: 2,000 STB/D

Input Liquid Rate: 2,000 STB/D

Tubing Pressure: 150 PSIA

Casing Pressure: 100 PSIA

Intake

Intake Type: Summit / GAS SEPARATOR TANDEM 400 SERIES H2X STAINLESS STEEL INCONEL SHAFT DURAHARD 15

Length: 5.08 Feet

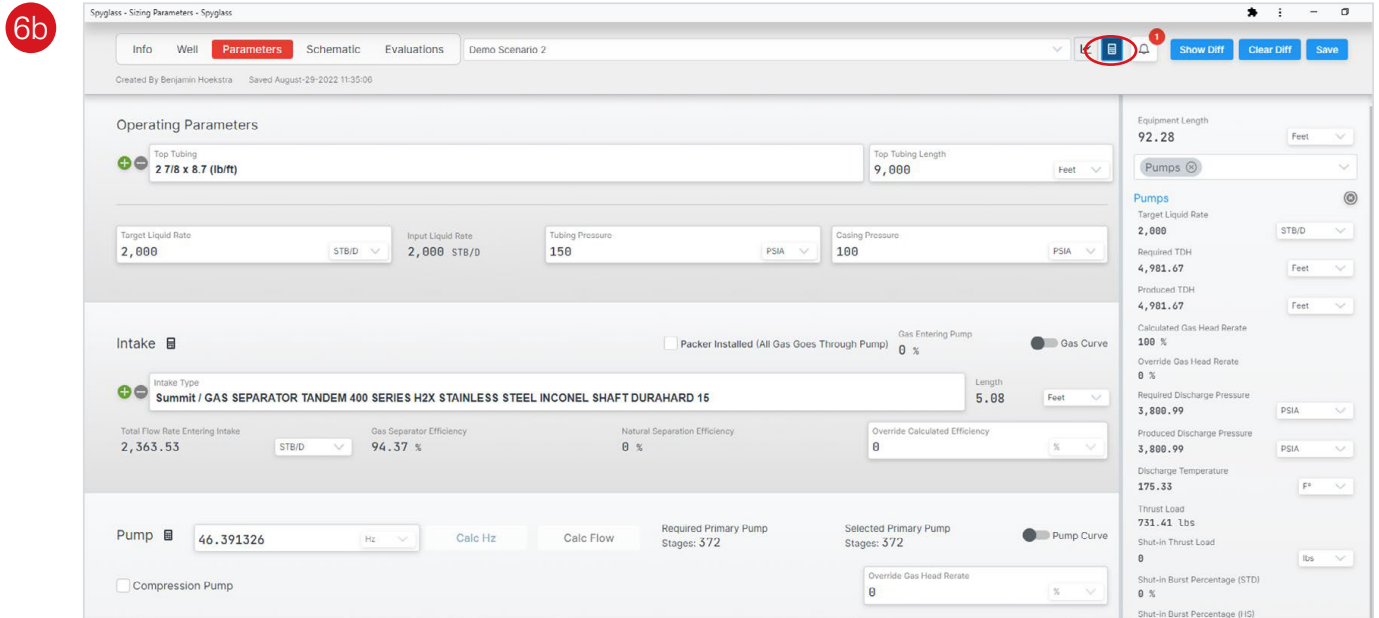
Total Flow Rate Entering Intake: 2,363.53 STB/D

Gas Separator Efficiency: 94.37 %

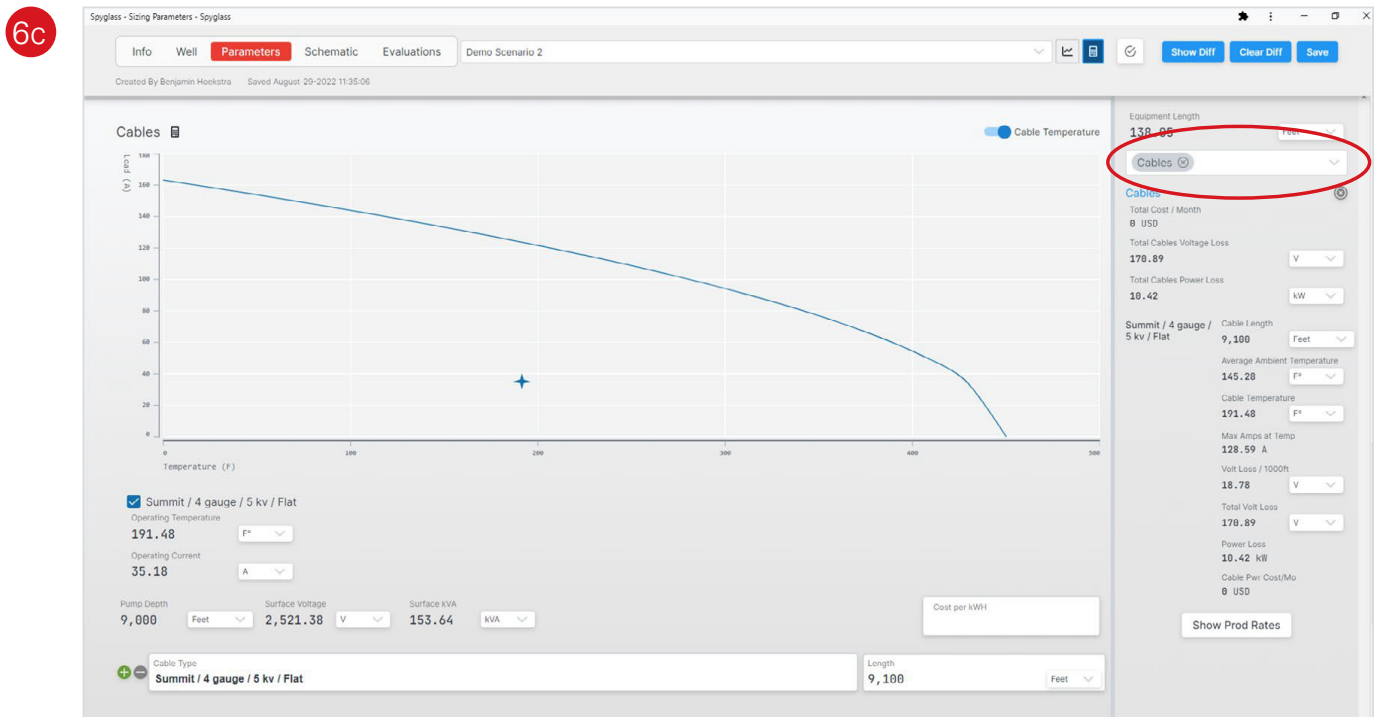
Natural Separation Efficiency: 0 %

Override Calculated Efficiency: 0 %

6. b. Second is the calculator icon which sits next to the charts. This will open the side calculator on the right-hand side of your screen. Each component has a calculator icon which is a quick navigation to the calculations specific to that component

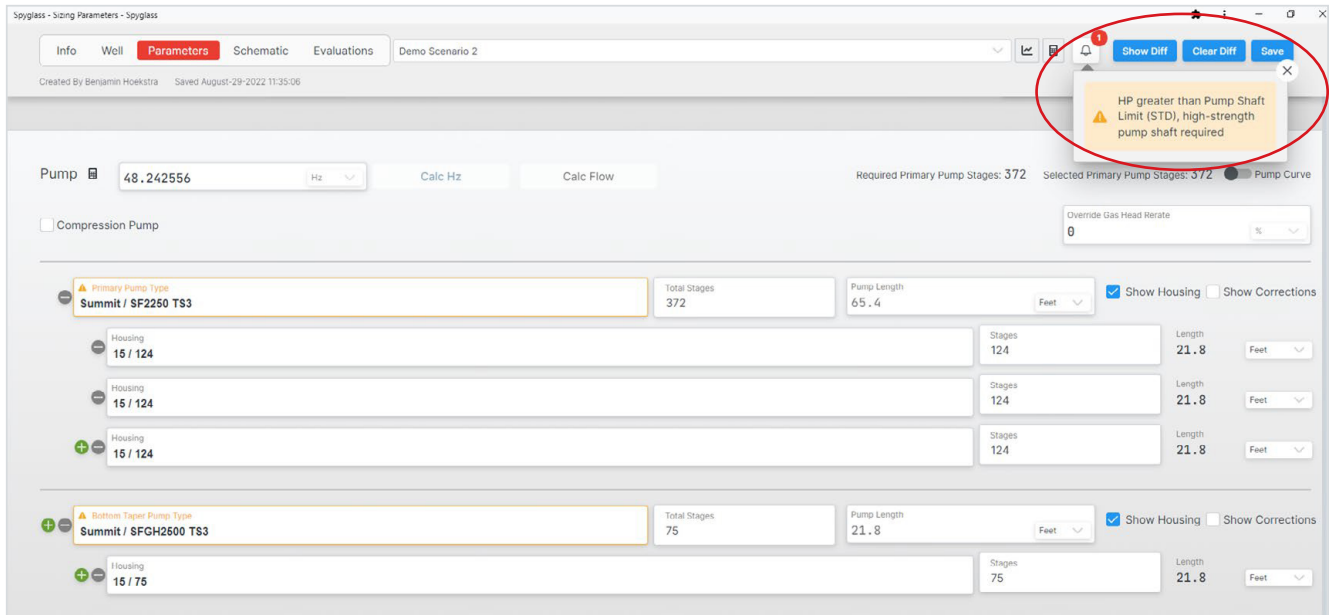


- c. The third function is a toggle on the top right of each piece of equipment. When this is toggled on, a graph related to the performance of that piece of equipment will appear



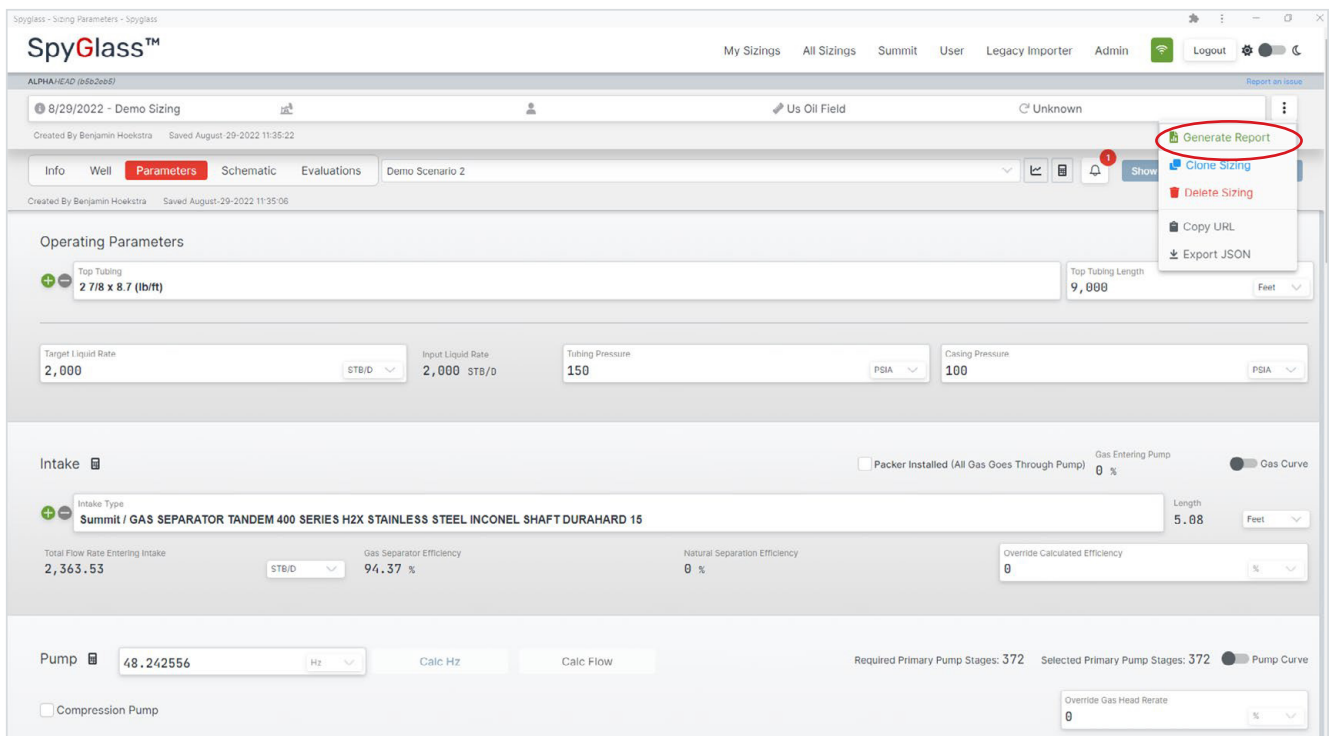
6. d. Lastly, the fourth function is the built-in alerts for each piece of equipment. If there is a caution (orange) or warning (red) relating to the equipment specs, the box surrounding the equipment will appear as the warning color, and the bell at the top right will show the number of total alerts. When the bell is clicked, it will open a window showing the specific alerts

6d

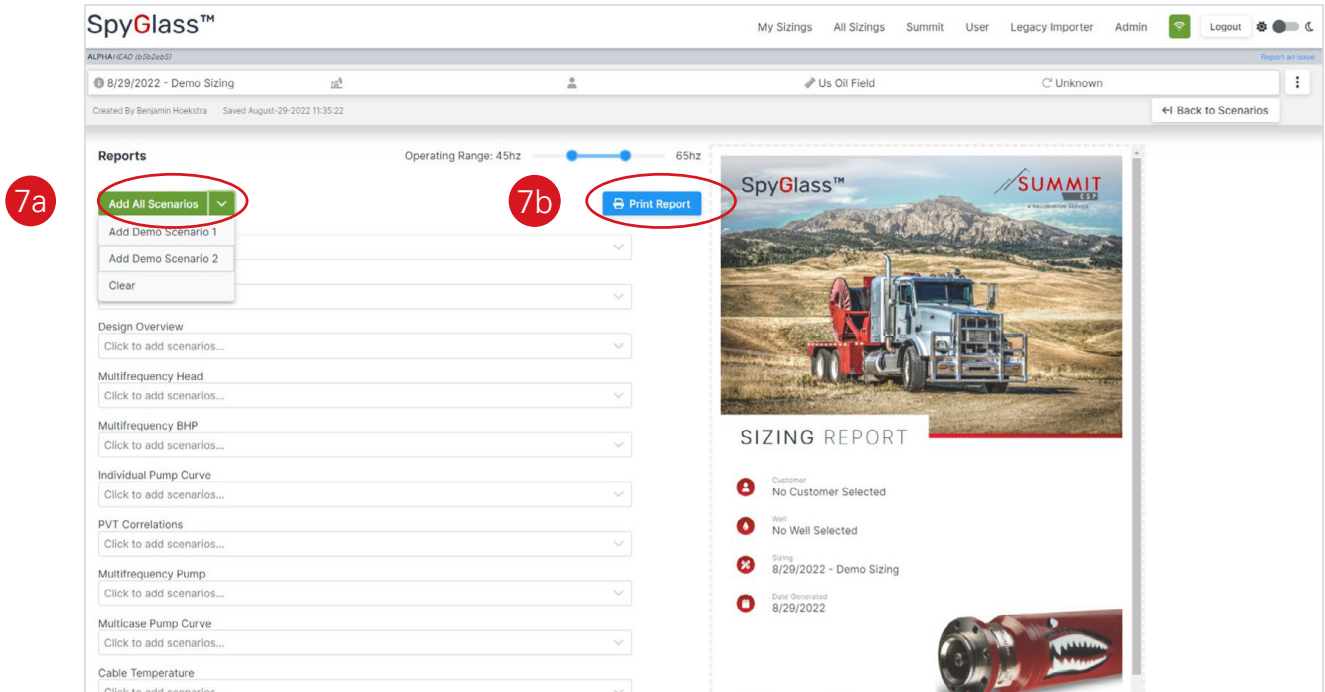


7. Once your sizing is completed, saving all the changes you have made is best. A customizable PDF of the sizing can be created by clicking the three-button menu and selecting the **"Generate Report"** option in the top right of the screen

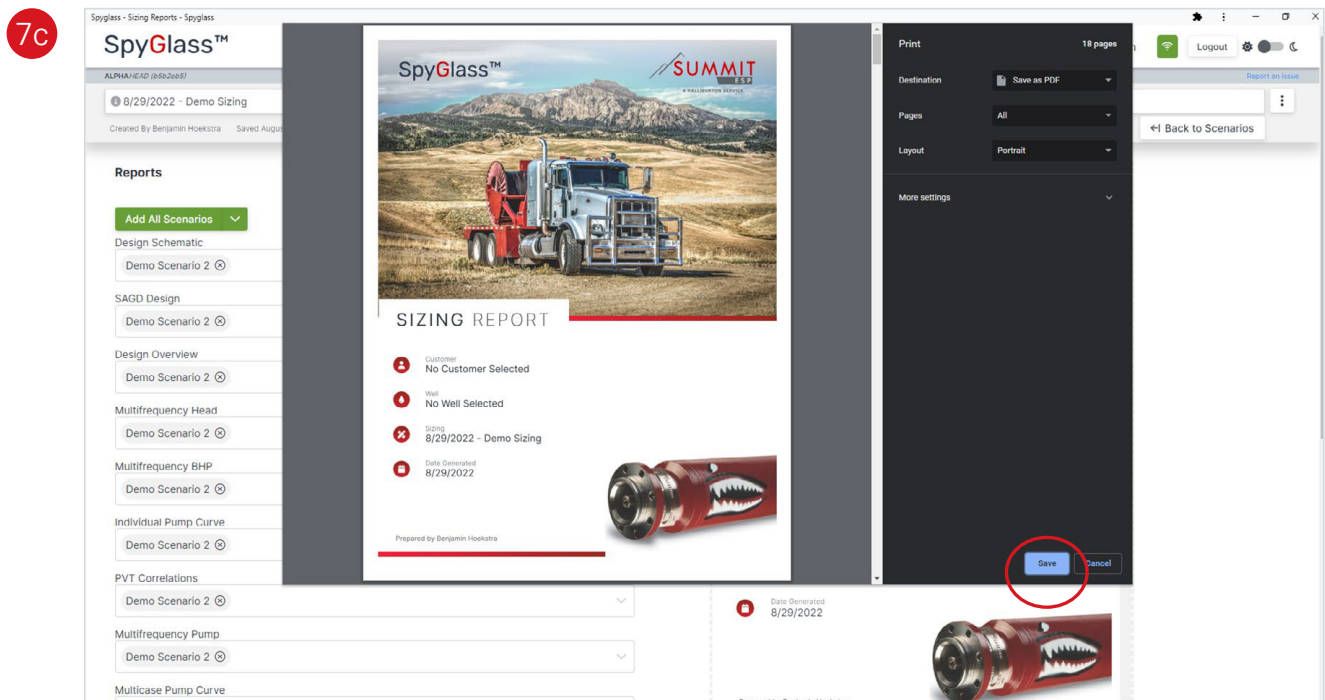
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7. a. On the reporting page, you can select reports only pertinent to the end user. There is an option to select all reports quickly. This is done by selecting the green **"Add All Scenarios"** button on the top left of the reports page
- b. A report preview will be displayed on the right-hand side of the screen. When ready to print to PDF, click the blue **"Print Report"** button



- c. You can save the report to your computer for later use





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