

**STABILDRILL**

**Jar Placement Application  
IntelliJar Training**

# INTRODUCTION

The purpose of this training material is to aid potential users and Stabil Drill's customers of Intellijar application, as available through company's website (see next page).

Application's link can be found here:

<https://intellijar.stabildrill.com/>

This free-to-use application, helps the end user enter details about planned BHA, along with drilling parameters and it calculates the best placement of the Stabil Drill's jar, within the specified BHA, either in tension (preferred) or compression.

Additional useful outputs are calculated to better assist the user in understanding specific drilling/jarring operations.

## STABILIZERS



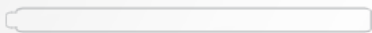
## REAMERS



## HOLE OPENERS



## DRILL COLLARS



## FISHING TOOLS



## JAR &amp; SHOCK SUBS



## JARS & SHOCK SUBS

**PROTECT YOUR DRILL STRING WITH THESE HIGH-PERFORMANCE SUBS DESIGNED SPECIFICALLY TO NEGATE TOOL DAMAGE AND ENABLE MAXIMUM SPEED.**

Normal drilling operations can really put a beating on the drill string. That's where Stabil Drill shock comes in. These simple components are engineered to absorb downhole impacts and vibrations—drastically reducing their transmission to the rest of the drill string. The result is better protection and faster rate of penetration.

[IntelliJar Application](#)



## SHOCK SUBS

Vibration is the enemy of your drill string. These heavy-duty subs prevent damage to critical drill string components such as drill collars, pipe and more—even helping protect surface equipment. And Stabil Drill can make and specify them to run in any formation type or temp.

[DOWNLOAD SPEC SHEET](#)



## HYDRA HAMMER DRILLING JAR

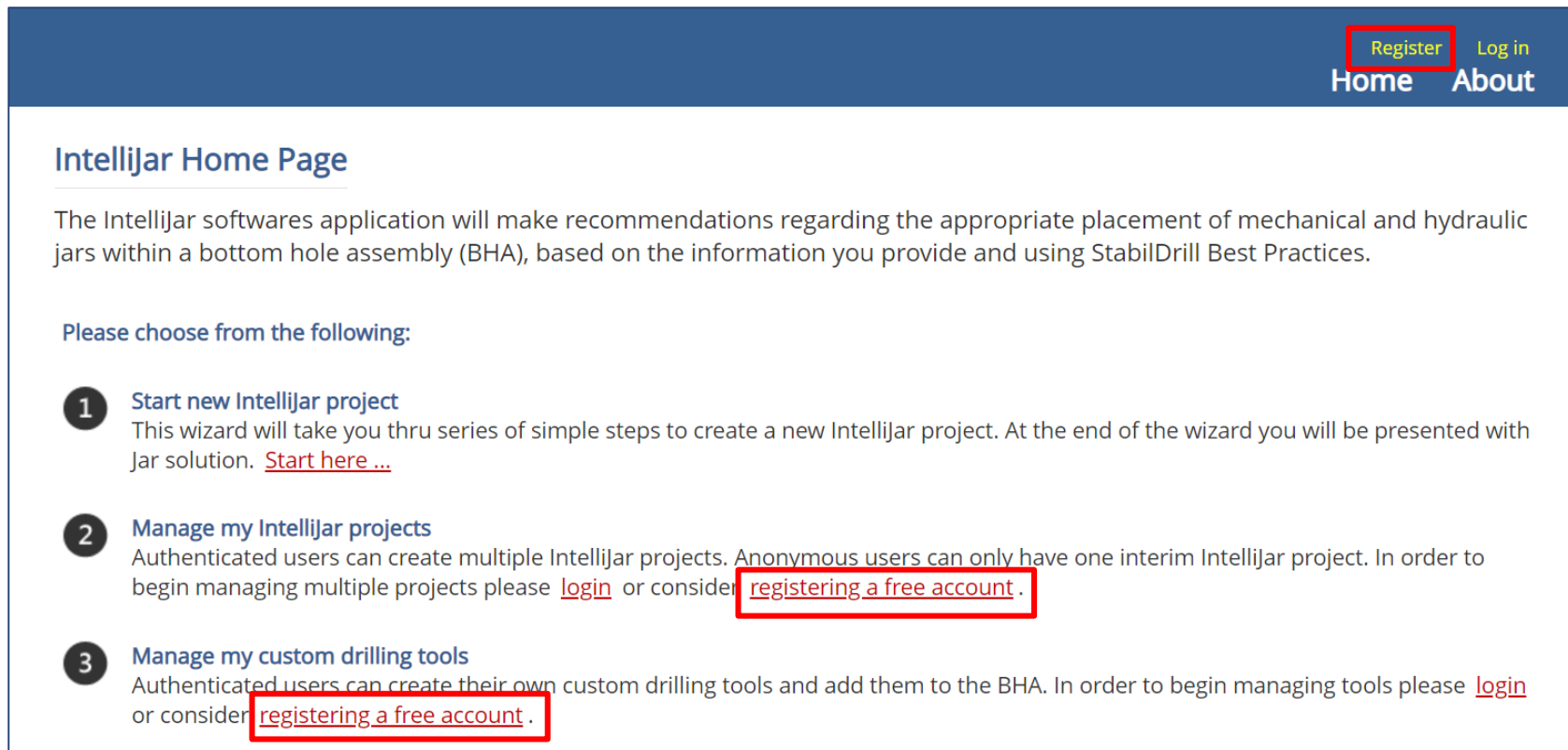
When your drill string is stuck, you need a high-impact fix. The Hydra Hammer Drilling Jar is used to apply a mechanical impact on another downhole component—such as dislodging a stuck BHA. This hydraulic drilling jar is capable of jarring both upward and downward, and can be configured to deliver an impact load in a variety of directions and magnitudes to get you back on track.

[DOWNLOAD SPEC SHEET](#)



# Account Registration

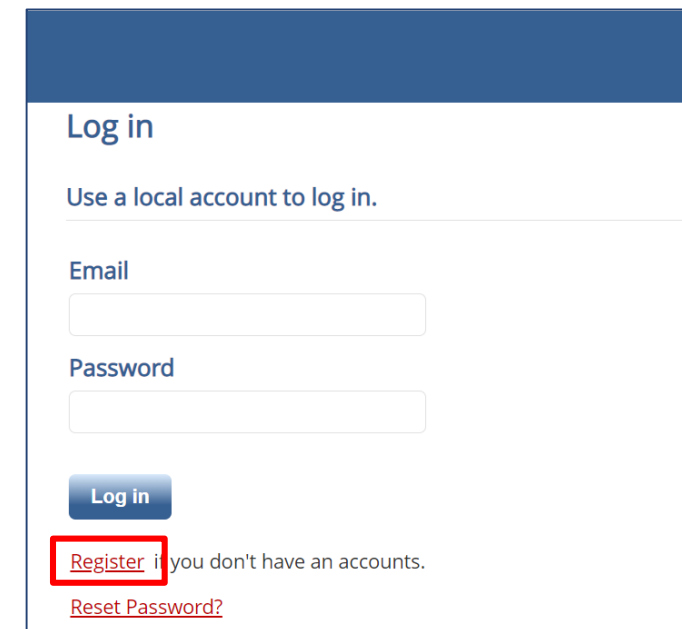
Once you navigate to the website and you are seeing this page, click on “**Register**” in any of the three locations. If you are already registered, click on the “**Log In**” to log into your account. Alternatively, you can click on “Log In” link and you can register on that page as well if you do not have an account already.



The screenshot shows the IntelliJ Home Page. At the top right, there are navigation links: "Home", "About", "Register" (highlighted with a red box), and "Log in". Below the navigation bar, the page title is "Intellijar Home Page". The main content area contains a paragraph about the IntelliJ software application, followed by a section titled "Please choose from the following:". There are three numbered options:

- 1 Start new Intellijar project**  
This wizard will take you thru series of simple steps to create a new Intellijar project. At the end of the wizard you will be presented with Jar solution. [Start here ...](#)
- 2 Manage my Intellijar projects**  
Authenticated users can create multiple Intellijar projects. Anonymous users can only have one interim Intellijar project. In order to begin managing multiple projects please [login](#) or consider [registering a free account](#) .
- 3 Manage my custom drilling tools**  
Authenticated users can create their own custom drilling tools and add them to the BHA. In order to begin managing tools please [login](#) or consider [registering a free account](#) .

OR



The screenshot shows the "Log in" page. It has a title "Log in" and a subtitle "Use a local account to log in.". Below this are two input fields: "Email" and "Password". There is a "Log in" button. At the bottom, there is a "Register" link (highlighted with a red box) and a "Reset Password?" link.

# Account Registration - continued

Enter your details, as required, create a password and confirm it, then click “**Register**”. Within 24 hrs. you will be receiving a notification from Stabil Drill acknowledging your account is active and ready to use. Should you NOT receive an activation notice from Stabil Drill within 24 hrs. from your request, send an email to [engineering@stabildrill.com](mailto:engineering@stabildrill.com) and ask for details.

[Register](#) [Log in](#)  
[Home](#) [About](#)

**Register** [Create a new account.](#)

**Title**  
Select Title ▾

**First name**

**Last name**

**Company**

**Email**

**Phone Number**

**Password**

**Confirm password**

**Register**

# Using the Application (IntelliJar)

Once you log in with your credentials, after you have received the notification from Stabil Drill, click on “**Start Here**” as instructed, or choose one of the following as shown below:



## IntelliJar Home Page

The IntelliJar softwares application will make recommendations regarding the appropriate placement of mechanical and hydraulic jars within a bottom hole assembly (BHA), based on the information you provide and using StabilDrill Best Practices.

Please choose from the following:

- 1 Start new IntelliJar project**  
This wizard will take you thru series of simple steps to create a new IntelliJar project. At the end of the wizard you will be presented with Jar solution. [Start here ...](#)
- 2 Manage my IntelliJar projects**  
Authenticated users can create multiple IntelliJar projects. Begin managing your saved IntelliJar projects [here ...](#)
- 3 Manage my custom drilling tools**  
Authenticated users can create their own custom drilling tools and add them to the BHA. Begin managing your tools [here ...](#)
- 4 Manage my account**  
Authenticated users can manage your account. Begin managing your account [here ...](#)

# Using the Application (IntelliJar) - continued

Hello,

[Log off](#)

[Home](#) [About](#)

## JAR PLACEMENT BEST PRACTICES

SECTION	BEST PRACTICE
JAR LIFE & EFFECTIVENESS:	
	DO NOT PLACE THE JAR NEAR THE NEUTRAL POINT (STAY (+/-) 20% AWAY FROM THE NEUTRAL POINT).
	DO NOT PLACE THE JAR WITHIN 90 FT OF A STABILIZER, ROLLER REAMER OR SIMILAR TOOL.
	DO NOT PLACE THE JAR WITHIN 60 FT OF THE DRILL PIPE IN THE DRILL STRING.
	DO NOT PLACE THE JAR WITHIN 90 FT OF A SHOCKTOOL AND ALWAYS ABOVE THE SHOCK TOOL.
	DO NOT PLACE THE JAR WITHIN 90 FT OF THE DRILL BIT.
	DO NOT USE THE JAR AS CROSSOVER OR PLACE AT A TRANSITION POINT (BETWEEN TOOLS/PIPE OF DIFFERENT DIAMETER).
	THE DIAMETER OF HEAVY WEIGHT OR DRILL COLLARS ABOVE AND BELOW JAR SHOULD NEVER BE LARGER THAN THE O.D. OF THE JAR.
	JAR REQUIRES A MINIMUM OF 2 ITEMS OF DRILL PIPE, COLLAR OR HEAVY WEIGHT BOTH ABOVE AND BELOW JAR.
MAXIMIZE JAR EFFICIENCY:	
	IT IS RECOMMENDED TO PLACE TWO JOINTS OF DRILL COLLARS (OR HEAVY WEIGHT) ABOVE AND BELOW THE JAR TO INCREASE MASS NEAR JAR.
	IT IS RECOMMENDED TO PLACE JAR LOWER IN BHA, IF MECHANICAL STICKING (STUCK AT BIT) IS EXPECTED (TO INCREASE JARRING EFFICIENCY AT STUCK POINT).
	IT IS RECOMMENDED TO PLACE JAR HIGHER IN BHA, IF DIFFERENTIAL STICKING IS EXPECTED (TO REDUCE CHANCE OF STICKING ABOVE JAR).
PLACEMENT OF JAR:	
	JAR MAY BE PLACED IN TENSION OR COMPRESSION.
	IT IS RECOMMENDED TO RUN A MECHANICAL JAR IN COMPRESSION IF POSSIBLE (REDUCES MISFIRE DUE TO WT. BELOW JAR).
	IT IS RECOMMENDED TO RUN A HYDRO JAR IN TENSION IF POSSIBLE, TO REDUCE CHANCE OF MISFIRE DUE TO INADVERTENT OPERATOR ERROR.
	DO NOT PLACE THE JAR IN, OR NEAR, DRILL PIPE.

After reading important details about the jar, click on NEXT



Next >>

# Using the Application (IntelliJar) - continued

Hello, [Home](#) [Log off](#)  
[About](#)

Start new project

**Name**  **Well #**  **Company**

**Customer**  **Analyst**

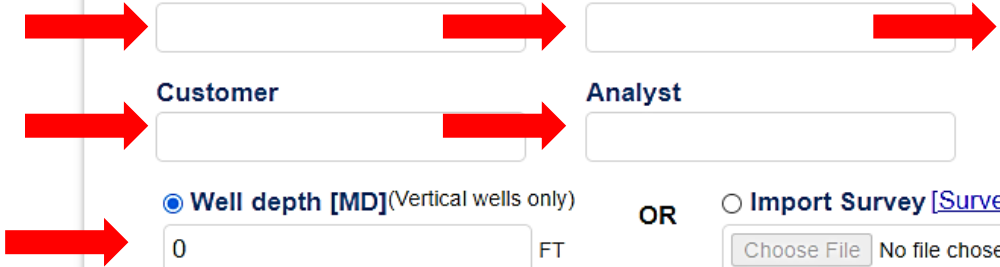
**Well depth [MD]** (Vertical wells only)  FT **OR**  **Import Survey** [[Survey Template](#)] (Directional wells)  No file chosen

**Pipe grade**

**Mud weight**  PPG **Max weight on bit**  LBS **Pressure diff**  PSI

**Jar**  **Primary pipe**  **Primary pipe angle**  Deg

Enter the details here as required




For vertical wells, check the radio button and enter measured depth here.



# Using the Application (IntelliJar) - continued

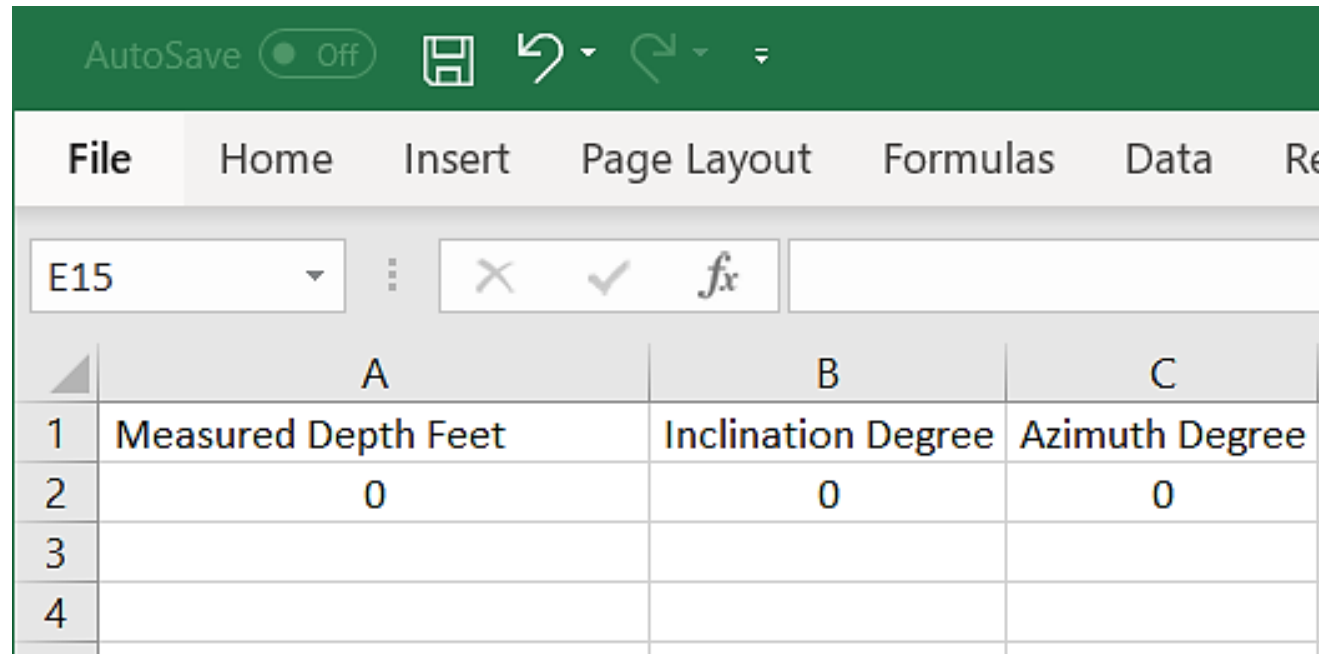
If you have a survey available, check this radio button, and the application will automatically pull measured depth from the survey, if the survey is formatted as the reference template.

## Start new project

<b>Name</b>	<b>Well #</b>	<b>Company</b>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>Customer</b>	<b>Analyst</b>	
<input type="text"/>	<input type="text"/>	
<input type="radio"/> <b>Well depth [MD]</b> (Vertical wells only)	<b>OR</b>	<input checked="" type="radio"/> <b>Import Survey [Survey Template]</b> (Directional wells)
<input type="text" value="0"/> FT		<input type="button" value="Choose File"/> No file chosen
<b>Pipe grade</b>		
<input type="text" value="- Select pipe grade -"/>		
<b>Mud weight</b>	<b>Max weight on bit</b>	<b>Pressure diff</b>
<input type="text" value="0"/> PPG	<input type="text" value="0"/> LBS	<input type="text" value="0"/> PSI
<b>Jar</b>	<b>Primary pipe</b>	<b>Primary pipe angle</b>
<input type="text" value="- Select jar -"/>	<input type="text" value="- Select primary pipe -"/>	<input type="text" value="0"/> Deg
		<input type="button" value="Project list"/> <input type="button" value="Next &gt;&gt;"/>

# Using the Application (IntelliJar) - continued

The “Survey Template” file contains Measured Depth (in feet), Inclination (in degrees) and Azimuth (in degrees), being formatted as a .csv file (comma separated values), example below:



The screenshot shows an Excel spreadsheet with a green header bar containing 'AutoSave Off' and icons for save, undo, and redo. The ribbon includes 'File', 'Home', 'Insert', 'Page Layout', 'Formulas', 'Data', and 'Re'. The active cell is E15. The spreadsheet has columns A, B, and C, and rows 1 through 4. Row 1 contains the headers: 'Measured Depth Feet', 'Inclination Degree', and 'Azimuth Degree'. Row 2 contains the values: '0', '0', and '0'. Rows 3 and 4 are empty.

	A	B	C
1	Measured Depth Feet	Inclination Degree	Azimuth Degree
2	0	0	0
3			
4			

# Using the Application (IntelliJar) - continued

Select your pipe grade from the drop-down menu

Start new project

<b>Name</b> Test Well	<b>Well #</b> 1	<b>Company</b> 123
<b>Customer</b> XYZ	<b>Analyst</b> JohnDoe	
<input checked="" type="radio"/> <b>Well depth [MD]</b> (Vertical wells only) 20000 FT	<b>OR</b>	<input type="radio"/> <b>Import Survey</b> [ <a href="#">Survey Template</a> ] (Directional wells) <input type="button" value="Choose File"/> No file chosen
<b>Pipe grade</b> - Select pipe grade - GRADE E [ 75000 PSI ] GRADE X-95 [ 95000 PSI ] GRADE G-105 [ 105000 PSI ] GRADE S-135 [ 135000 PSI ]	<b>Max weight on bit</b> 0 PPG LBS	<b>Pressure diff</b> 500 PSI
- Select jar -	<b>Primary pipe</b> - Select primary pipe -	<b>Primary pipe angle</b> 0 Deg
<input type="button" value="Project list"/>		<input type="button" value="Next &gt;&gt;"/>

Select your jar size from the drop-down menu  
(notice Pressure Difference (pressure across the bit) is about 500 psi, if you think you have a different number, then enter it here)

Start new project

<b>Name</b> Test Well	<b>Well #</b> 1	<b>Company</b> 123
<b>Customer</b> XYZ	<b>Analyst</b> JohnDoe	
<input checked="" type="radio"/> <b>Well depth [MD]</b> (Vertical wells only) 20000 FT	<b>OR</b>	<input type="radio"/> <b>Import Survey</b> [ <a href="#">Survey Template</a> ] (Directional wells) <input type="button" value="Choose File"/> No file chosen
<b>Pipe grade</b> - Select pipe grade -	<b>Mud weight</b> 11 PPG	<b>Max weight on bit</b> 30000 LBS
<b>Jar</b> - Select jar - JAR: SD475 HYDRO JAR: SD650 HYDRO JAR: SD800 HYDRO	<b>Primary pipe</b> - Select primary pipe -	<b>Pressure diff</b> 500 PSI
		<b>Primary pipe angle</b> 0 Deg
<input type="button" value="Project list"/>		<input type="button" value="Next &gt;&gt;"/>

# Using the Application (IntelliJar) - continued

Select your primary pipe from the drop-down menu. If you don't see on the list the pipe you will be using, send an email request to [engineering@stabildrill.com](mailto:engineering@stabildrill.com) with pipe details and it will be added to the catalog

Start new project

<b>Name</b> <input type="text" value="Test Well"/>	<b>- Select primary pipe -</b> DRILL PIPE, 2.375 O.D. [6.65 LB/FT] DRILL PIPE, 2.875 O.D. [10.4 LB/FT] DRILL PIPE, 2.875 O.D. [6.85 LB/FT] DRILL PIPE, 3.500 O.D. [15.5 LB/FT] DRILL PIPE, 3.500 O.D. [13.3 LB/FT] DRILL PIPE, 3.500 O.D. [9.5 LB/FT] DRILL PIPE, 4 O.D. [15.7 LB/FT] DRILL PIPE, 4 O.D. [14 LB/FT] DRILL PIPE, 4 O.D. [11.85 LB/FT] DRILL PIPE, 4.5 O.D. [20 LB/FT] DRILL PIPE, 4.5 O.D. [16.6 LB/FT] DRILL PIPE, 5 O.D. [25.6 LB/FT] DRILL PIPE, 5 O.D. [19.5 LB/FT] DRILL PIPE, 5.5 O.D. [24.7 LB/FT] DRILL PIPE, 5.5 O.D. [21.9 LB/FT] DRILL PIPE, 6.625 O.D. [27.7 LB/FT] DRILL PIPE, 6.625 O.D. [25.2 LB/FT] DRILL PIPE (6 5/8 OD X 5.581ID [34.02 LBS/FT]) DRILL PIPE (6 5/8 OD X 5.375 [40.05]ID)	<input type="text"/>
<b>Customer</b> <input type="text" value="XYZ"/>	<input type="text"/>	
<input checked="" type="radio"/> <b>Well depth [MD]</b> (Vertical wells only) <input type="text" value="20000"/> FT	<input type="text" value="0"/> onal wells)	
<b>Pipe grade</b> <input type="text" value="GRADE S-135 [ 135000 PSI]"/>	<input type="text"/>	
<b>Mud weight</b> <input type="text" value="11"/> PPG	<input type="text" value="0"/> PSI	
<b>Jar</b> <input type="text" value="JAR: SD800 HYDRO"/>	<input type="text" value="0"/> Deg	


# Using the Application (IntelliJar) - continued

If your pipe has any bending in it, you can enter the pipe angle here, if not, leave zero and click **NEXT**

Start new project

<b>Name</b> Test Well	<b>Well #</b> 1	<b>Company</b> 123
<b>Customer</b> XYZ	<b>Analyst</b> JohnDoe	
<input checked="" type="radio"/> <b>Well depth [MD]</b> (Vertical wells only) 20000 FT	OR	<input type="radio"/> <b>Import Survey</b> [ <a href="#">Survey Template</a> ] (Directional wells) Choose File No file chosen
<b>Pipe grade</b> GRADE S-135 [ 135000 PSI ]		
<b>Mud weight</b> 11 PPG	<b>Max weight on bit</b> 30000 LBS	<b>Pressure diff</b> 500 PSI
<b>Jar</b> JAR: SD800 HYDRO	<b>Primary pipe</b> DRILL PIPE (6 5/8 OD X 5.58)	<b>Primary pipe angle</b> 0 Deg

Project list **Next >>**



# Using the Application (IntelliJar) - continued

## Project details

Name	Test Well
Well #	1
Date	01/17/2023
Company	123
Customer	XYZ
Analyst	JohnDoe
Well depth [MD]	20,000 FT
Pipe grade	135,000 PSI
Mud weight	11.00 PPG
Max weight on bit	30,000 LBS
Pressure diff	500 PSI
Jar	JAR: SD800 HYDRO
Primary pipe	DRILL PIPE (6 5/8 OD X 5.5811D [34.02 LBS/FT])
Primary pipe angle	0 Deg



BHA.

Finish your BHA at any time by adding the drill bit. No solution was found. Please consider adding more tools to the

You can see your previous completed projects by clicking on “My Projects” link

You can EDIT your project here



[Edit](#) | [My\\_projects](#) | [Best\\_practices](#)

You can ADD new drill pipe to your string here



[Add new drill pipe to drill string](#)

You can building your BHA here



## Drill Pipes

Description	Qty	Angle
DRILL PIPE (6 5/8 OD X 5.5811D [34.02 LBS/FT])	667	0.0

[Add new tool to BHA](#)

Tool type	Description	Qty	Angle
-----------	-------------	-----	-------

# Using the Application (IntelliJar) - continued

Use the drop-down menu to add you BHA components, starting with the “Bit” first. If you need your BHA component is NOT on the list, you can click on the “New Custom Tool” button to create your custom tool. Enter the details as required and it will be saved in the database for future reference.

## Add BHA tool

### Tool type

- Select tool type -

- Select tool type -
- HeavyWeight
- DrillCollar
- ShockTool
- Reamer
- MudMotor
- Stabilizer
- MonelCollar
- Bit
- Custom

Add tool

New custom tool

[Project details](#)



Finish your BHA at any time by adding the drill bit. No solution was found. Please consider adding more tools to the BHA.

Tool type

Description

Qty

Angle

# Using the Application (IntelliJar) - continued

## Project details

Name	Test Well
Well #	1
Date	01/17/2023
Company	123
Customer	XYZ
Analyst	JohnDoe
Well depth [MD]	20,000 FT
Pipe grade	135,000 PSI
Mud weight	11.00 PPG
Max weight on bit	30,000 LBS
Pressure diff	500 PSI
Jar	JAR: SD800 HYDRO
Primary pipe	DRILL PIPE (6 5/8 OD X 5.581ID [34.02 LBS/FT])
Primary pipe angle	0 Deg



The BHA is complete. Solution in tension was found.  
Solution in compression was found.

[Edit](#) | [My projects](#) | [Best practices](#) | [Solution Tension](#) | [Solution Compression](#)

## Drill Pipes

[Add new drill pipe to drill string](#)

Description	Qty	Angle
DRILL PIPE (6 5/8 OD X 5.581ID [34.02 LBS/FT])	642	0.0

## Bottom Hole Assembly

[Add new tool to BHA](#) | [Change the order of tools in the BHA](#)

Tool type	Description	Qty	Angle	
<a href="#">Heavy Weight</a>	HWDP (6 5/8 OD X 4.5 ID [73.72LB/FT])	20	0.0	✗
<a href="#">Custom Tool</a>	UBHO	1	0.0	✗
<a href="#">Mud Motor</a>	MUD MOTOR, 6-3/4 O.D. [117.5 LB/FT]	1	0.0	✗
<a href="#">Shock Tool</a>	SHOCK TOOL, 8 O.D.	1	0.0	✗
<a href="#">Drill Collar</a>	DRILL COLLAR, 8 O.D. X 2-13/16 I.D. [150 LB/FT]	0.33	0.0	✗
<a href="#">Drill Collar</a>	DRILL COLLAR, 8 O.D. X 2-13/16 I.D. [150 LB/FT]	2	0.0	✗
<a href="#">Shock Tool</a>	SHOCK TOOL, 8 O.D.	1	0.0	✗
<a href="#">Stabilizer</a>	STABILIZER, 7.25 O.D. [9-7/8 HOLE SIZE]	1	0.0	✗
<a href="#">Bit</a>	DRILL BIT - 9 7/8	1	0.0	✗



# Using the Application (IntelliJar) - continued

You can change the order of the BHA components by clicking here

Once you click on the link, click and drag the component you want to move (up or down) then click SAVE

## Project details

Name	Test Well
Well #	1
Date	01/17/2023
Company	123
Customer	XYZ
Analyst	JohnDoe
Well depth [MD]	20,000 FT
Pipe grade	135,000 PSI
Mud weight	11.00 PPG
Max weight on bit	30,000 LBS
Pressure diff	500 PSI
Jar	JAR: SD800 HYDRO
Primary pipe	DRILL PIPE (6 5/8 OD X 5.581ID [34.02 LBS/FT])
Primary pipe angle	0 Deg



The BHA is complete. Solution in tension was found.  
Solution in compression was found.

[Edit](#) | [My projects](#) | [Best practices](#) | [Solution Tension](#) | [Solution Compression](#)

## Drill Pipes

[Add new drill pipe to drill string](#)

Description	Qty	Angle
DRILL PIPE (6 5/8 OD X 5.581ID [34.02 LBS/FT])	642	0.0

## Bottom Hole Assembly

[Add new tool to BHA](#) | [Change the order of tools in the BHA](#)

Tool type	Description	Qty	Angle	
<a href="#">Heavy Weight</a>	HWDP (6 5/8 OD X 4.5 ID [73.72LB/FT])	20	0.0	✗
<a href="#">Custom Tool</a>	UBHO	1	0.0	✗
<a href="#">Shock Tool</a>	SHOCK TOOL, 8 O.D.	1	0.0	✗
<a href="#">Mud Motor</a>	MUD MOTOR, 6-34 O.D. [117.5 LB/FT]	1	0.0	✗
<a href="#">Drill Collar</a>	DRILL COLLAR, 8 O.D. X 2-13/16 I.D. [150 LB/FT]	0.33	0.0	✗
<a href="#">Stabilizer</a>	STABILIZER, 7.25 O.D. [9-7/8 HOLE SIZE]	1	0.0	✗
<a href="#">Shock Tool</a>	SHOCK TOOL, 8 O.D.	1	0.0	✗
<a href="#">Drill Collar</a>	DRILL COLLAR, 8 O.D. X 2-13/16 I.D. [150 LB/FT]	2	0.0	✗
<a href="#">Bit</a>	DRILL BIT - 9 7/8	1	0.0	✗


# Using the Application (IntelliJar) - continued

Once you get a solution (smiley face within the green box) you can click [HERE](#) to see the calculation results and **SAVE** your file as a .pdf

For editing purposes, you can always click on the highlighted BHA components and change them, their number, angle and so on.

## Project details

Name	Test Well
Well #	1
Date	01/17/2023
Company	123
Customer	XYZ
Analyst	JohnDoe
Well depth [MD]	20,000 FT
Pipe grade	135,000 PSI
Mud weight	11.00 PPG
Max weight on bit	30,000 LBS
Pressure diff	500 PSI
Jar	JAR: SD800 HYDRO
Primary pipe	DRILL PIPE (6 5/8 OD X 5.581ID [34.02 LBS/FT])
Primary pipe angle	0 Deg

 The BHA is complete. Solution in tension was found.  
Solution in compression was found.

[Edit](#) | [My projects](#) | [Best practices](#) | [Solution Tension](#) | [Solution Compression](#)

## Drill Pipes

[Add new drill pipe to drill string](#)

Description	Qty	Angle
DRILL PIPE (6 5/8 OD X 5.581ID [34.02 LBS/FT])	642	0.0

## Bottom Hole Assembly

[Add new tool to BHA](#) | [Change the order of tools in the BHA](#)

Tool type	Description	Qty	Angle	
<a href="#">Heavy Weight</a>	HWDP (6 5/8 OD X 4.5 ID [73.72LB/FT])	20	0.0	✗
<a href="#">Custom Tool</a>	UBHO	1	0.0	✗
<a href="#">Mud Motor</a>	MUD MOTOR, 6-3/4 O.D. [117.5 LB/FT]	1	0.0	✗
<a href="#">Shock Tool</a>	SHOCK TOOL, 8 O.D.	1	0.0	✗
<a href="#">Drill Collar</a>	DRILL COLLAR, 8 O.D. X 2-13/16 I.D. [150 LB/FT]	0.33	0.0	✗
<a href="#">Drill Collar</a>	DRILL COLLAR, 8 O.D. X 2-13/16 I.D. [150 LB/FT]	2	0.0	✗
<a href="#">Shock Tool</a>	SHOCK TOOL, 8 O.D.	1	0.0	✗
<a href="#">Stabilizer</a>	STABILIZER, 7.25 O.D. [9-7/8 HOLE SIZE]	1	0.0	✗
<a href="#">Bit</a>	DRILL BIT - 9 7/8	1	0.0	✗

# Using the Application (IntelliJar) - continued

## Project details

Name: Test Well  
 Well #: 1  
 Date: 01/17/2023  
 Company: 123  
 Customer: XYZ  
 Analyst: JohnDoe  
 Well depth [MD]: 20,000 FT  
 Pipe grade: 135,000 PSI  
 Mud weight: 11.00 PPG  
 Max weight on bit: 30,000 LBS  
 Pressure diff: 500 PSI  
 Jar: JAR: SD800 HYDRO  
 Primary pipe: DRILL PIPE (6 5/8 OD X 5.581ID [34.02 LBS/FT])  
 Primary pipe angle: 0 Deg

😊 The BHA is complete. Solution in tension was found.  
 Solution in compression was found.

[Edit](#) | [My projects](#) | [Best practices](#) | [Solution Tension](#) | [Solution Compression](#)

## Drill Pipes

[Add new drill pipe to drill string](#)

Description	Qty	Angle
DRILL PIPE (6 5/8 OD X 5.581ID [34.02 LBS/FT])	642	0.0

## Bottom Hole Assembly

[Add new tool to BHA](#) | [Change the order of tools in the BHA](#)

Tool type	Description	Qty	Angle	
<a href="#">Heavy Weight</a>	HWDP (6 5/8 OD X 4.5 ID [73.72 LB/FT])	20	0.0	✗
<a href="#">Custom Tool</a>	UBHO	1	0.0	✗
<a href="#">Mud Motor</a>	MUD MOTOR, 6-34 O.D. [117.5 LB/FT]	1	0.0	✗
<a href="#">Shock Tool</a>	SHOCK TOOL, 8 O.D.	1	0.0	✗
<a href="#">Drill Collar</a>	DRILL COLLAR, 8 O.D. X 2-13/16 I.D. [150 LB/FT]	0.33	0.0	✗
<a href="#">Drill Collar</a>	DRILL COLLAR, 8 O.D. X 2-13/16 I.D. [150 LB/FT]	2	0.0	✗
<a href="#">Shock Tool</a>	SHOCK TOOL, 8 O.D.	1	0.0	✗
<a href="#">Stabilizer</a>	STABILIZER, 7.25 O.D. [9-7/8 HOLE SIZE]	1	0.0	✗
<a href="#">Bit</a>	DRILL BIT - 9 7/8	1	0.0	✗

For directional wells, where the survey is available, the user can enter the “ANGLE” for EACH tool, working from the bit upwards and considering the length of EACH individual tool. Start from the **BIT**

Measured Depth	Inclination	Azimuth
MD	INC	AZI
0	0	0
7	0	0
86	0	19
178	0	192
270	1	160
360	2	157
1500	17	161
2400	20	164
5700	20	164
6950	22	150
7000	24	141
7050	27	134
7100	30	128
7150	33	123
7200	36	119

1. Bit is 1' long, from 7200' to 7199' @ 36 deg inc.
2. Stabilizer is 10' long, from 7199' to 7189' @ 36 deg inc.
3. Shock Tool is 10' long, from 7189' to 7179' @ 36 deg inc.
4. Drill Collar is 31' long, from 7179' to 7148' @ 36 deg inc.
5. Drill Collar is 31' long, from 7148' to 7117' @ 33 deg inc.
6. Shock Tool is 10' long, from 7117' to 7107' @ 30 deg inc.
7. Mud Motor is 30' long, from 7107' to 7077' @ 30 deg inc.
8. UBHO is 6' long, from 7077' to 7071' @ 27 deg inc.
9. HWDP is 31' long, from 7071' to 7040' @ 24 deg inc.
10. HWDP is 31' long, from ....' to ....' @ .... deg inc.

Continue breaking down components till Inclination (inc.) is zero degrees. Leave the rest of the drill string a zero inclination and then **CLICK** on the **Solution Tension** as outlined in the previous slide.

You can **PRINT** or **SAVE** the final document for your reference.