

Starting FACT

Select Realtime Auto

Medco Tas v0.9.31 FACT

File Edit View Window Help

MEDCOTAS FACT

company name Mohamad Al-Dujaili USB key Active

Demo Real Time Auto 12 Aug 2022

Demo Location

Test string --- Test reel

String History

String Cycles Failure

Connections

Open Job

Select Job Type

Realtime Auto

Ovality Module OFF ON

CTI-Pro Module OFF ON

Cancel

Run

Gooseneck Radius 72 in

Reel to Gooseneck 30 ft

Gooseneck to 0 depth reference 12 ft

BHA Length 4 ft

BHA Pressure Drop 0 psi

Minimum movement 1 ft

Maximum % of Minimum Yield 80 %

Average ovality 1 %

Degradation Point 99 %

Length 1 ft

Corrosion Rate Select or fill value grams/sq.m/day

Exposure Time Select or fill value Minutes

From 0 ft To 23585 ft

Coiled Tubing History

No data to display

In this example, will be reading data from the DART module and updating Fatigue in real time

Select or Create New String

If the string exists, then simply select it from the drop-down list. Otherwise, click CREATE NEW

Click here to create new string

Medco Tas v0.9.31 FACT

File Edit View Window Help

MEDCOTAS FACT

company name

Mohamad Al-Dujaili
USB key Active

Demo Real Time Auto 12 Aug 2022

String History

String Cycles Failure

Connections

Open Job

Test string --- Test reel

Test string --- Test reel

Demo String --- Demo Reel 1

NS-69 --- NS-69

Create new

Ovality Module
OFF ON

CTI-Pro Module
OFF ON

Cancel

Run

Gooseneck to 0 depth reference

BHA Length

BHA Pressure Drop

Minimum movement

Maximum % of Minimum Yield

Average ovality

H2S

Corrosion Fluid

Corrosion Rate
Select or fill value grams/sq.m/day

Exposure Time
Select or fill value Minutes

Degradation Point

Length

From 0 ft To 23585 ft

Coiled Tubing History

No data to display

Create New String

Medco Tas v0.9.31 FACT

File Edit View Window Help

MEDCOTAS FACT

Add New String

Name

Material properties

Material grade

Material density

Young Modulus

Min yield

Outer diameter

Relative Roughness

Coiled Tubing Data

	Name	Length ft	Cumulative Length	Free End Wall - in	Top End Wall - in	Weld Factor	
1.	1.500 * 0.109 * 0.109	2960	2960	0.109	0.109	0.8	
2.	1.500 * 0.109 * 0.109	2850	5810	0.109	0.109	0.8	
3.	1.500 * 0.109 * 0.118	1880	7690	0.109	0.118	0.8	
4.	1.500 * 0.118 * 0.118	2915	10605	0.118	0.118	0.8	
5.	1.500 * 0.118 * 0.125	1760	12365	0.118	0.125	0.8	
6.	1.500 * 0.125 * 0.125	2985	15350	0.125	0.125	0.8	
7.	1.500 * 0.125 * 0.125	2860	18210	0.125	0.125	0.8	

Reverse

Add Component

Total

Length	Weight	Capacity	Displacement
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Insert string name

Select pipe grade

Select CT outer diameter

Click to select wall thickness

If tapered section, click here to select top end wall thickness

Click to add more components

Assign/Create Reel

Medco Tas v0.9.31 FACT

File Edit View Window Help

MEDCOTAS FACT

Demo Real Time Auto 12 Aug 20

Demo Location

Test string --- Test reel

Select Job Type **Real**

Gooseneck Radius
72 in

Minimum movement
1 ft

Degradation Point Length
99 % 1

From 0 ft To 23585 ft Coils

5. $1.500 * 0.118 * 0.125$ 1760 12365 0.118 0.125 0.8

6. $1.500 * 0.125 * 0.125$ 2985 15350 0.125 0.125 0.8

7. $1.500 * 0.125 * 0.125$ 2860 18210 0.125 0.125

Reverse

Add Component

Total

Length	Weight	Capacity	Displacement
18210.000 ft	31522.611 lbs	28.331 bbls	39.799 bbls

0 2360.00 5810.00 7680.00 10605.00 12365.00 15350.00 18210.00

☒ String with cable/capillaries

Reel **Assign to new reel**

Create Reel

Reel name	Core diameter	Reel width	Outer diameter
Reel 1069	72 in	70 in	135 in

Cancel **Save and Continue**

String summary data displayed here

Click to assign to existing reel or create new reel

Select String

Medco Tas v0.9.31 FACT

File Edit View Window Help

MEDCOTAS FACT

company name

Mohamad Al-Dujaili
USB key Active

Demo Real Time Auto 12 Aug 2022

String History

String Cycles Failure

Connections

Open Job

Test string --- Test reel

Test string --- Test reel

Demo String --- Demo Reel 1

NS-69 --- NS-69

String 1069 --- Reel 1069

Create new

Ovality Module
OFF ON

CTI-Pro Module
OFF ON

Cancel

Run

Gooseneck

Gooseneck to 0 depth reference

BHA Length

BHA Pressure Drop

Minimum movement

Maximum % of Minimum Yield

Average ovality

Degradation Point

Length

H2S

Corrosion Fluid

Corrosion Rate

Exposure Time

Coiled Tubing History

From 0 ft To 23585 ft

Click to select the string



Job in Well - Real Time Auto

Medco Tas v0.9.31 FACT

File Edit View Window Help

MEDCOTAS FACT

company name

Mohamad Al-Dujaili
USB key Active

Assign a job name → Demo Real Time Auto 12 Aug 2022

String History →

String Cycles Failure →

Connections →

Open Job →

Select Job Type

Gooseneck Radius 7/2

Minimum movement 1

Degradation Point 99 %

From 0 ft To 18210 ft

Realtime Auto

- JOB IN WELL
- Realtime Auto
- Post Job Auto
- Manual
- JOB IN YARD
- Spool To Another Reel
- Cut free end
- Spool off cut and back on
- Inspection spool off and back on
- Spool off and weld to another string
- Spool off and weld to another string...

Ovality Module OFF ON

CTI-Pro Module OFF ON

Gooseneck to 0 depth reference 12 ft

BHA Length 4 ft

BHA Pressure Drop 0 psi

Average ovality 1 %

☐ H2S

☐ Corrosion Fluid

Corrosion Rate Select or fill value grams/sq.m/day

Exposure Time Select or fill value Minutes

Cancel Run

Indicates DART is acquiring data

Job in Well Parameters

Medco Tas v0.9.31 FACT

File Edit View Window Help

MEDCOTAS FACT

company name

Mohamad Al-Dujaili
USB key Active

Demo Real Time Auto 12 Aug 2022

Demo Location

String 1069 — Reel 1069

String History

String Cycles Failure

Connections

Open Job

Select Job Type: Realtime Auto

Ovality Module: OFF ON

CTI-Pro Module: OFF ON

Cancel Run

Gooseneck Radius: 72 in

Reel to Gooseneck: 30 ft

Gooseneck to 0 depth reference: 12 ft

BHA Length: 4 ft

BHA Pressure Drop: 0 psi

Minimum movement: 1 ft

Maximum % of Minimum Yield: 80 %

Average ovality: 1 %

Corrosion Rate: 1350 grams/sq.m/day

Exposure Time: 120 Minutes

Corrosion Fluid: ☒ H2S

Degradation Point: 99 %

Length: 1 ft

Coiled Tubing History

From: 0 ft To: 18210 ft

17325.00

15350.00

12385.00

15k

Ensure job parameters are correct and include corrosion if applicable

Select the DART Parameters

Medco Tas v0.9.31 FACT

File Edit View Window Help

MEDCOTAS FACT

company name

Mohamad Al-Dujaili

USB key Active

Demo Real Time Auto 12 Aug 2022

Demo Location

String 1069 --- Reel 1069

Select Job Type Realtime

Gooseneck Radius 72 in

Minimum movement 1 ft

Degradation Point 99 % Length 1

From 0 ft To 18210 ft Coiled T

Job in Well channels

Weight parameter lbs

✓ Weight Indicator

Depth parameter ft

✓ Depth

Wellhead Pressure parameter psi

✓ Wellhead Pressure

Tube Pressure parameter psi

✓ Circulation Pressure

Available channels

✓ HMI (I)-Light Weight

✓ Fluid Flow

✓ HMI (I)-Nitrogen Flow

✓ Speed

✓ Fluid Total

✓ HMI (I)-NitrogenTotal

Cancel Save

Connections

Open Job

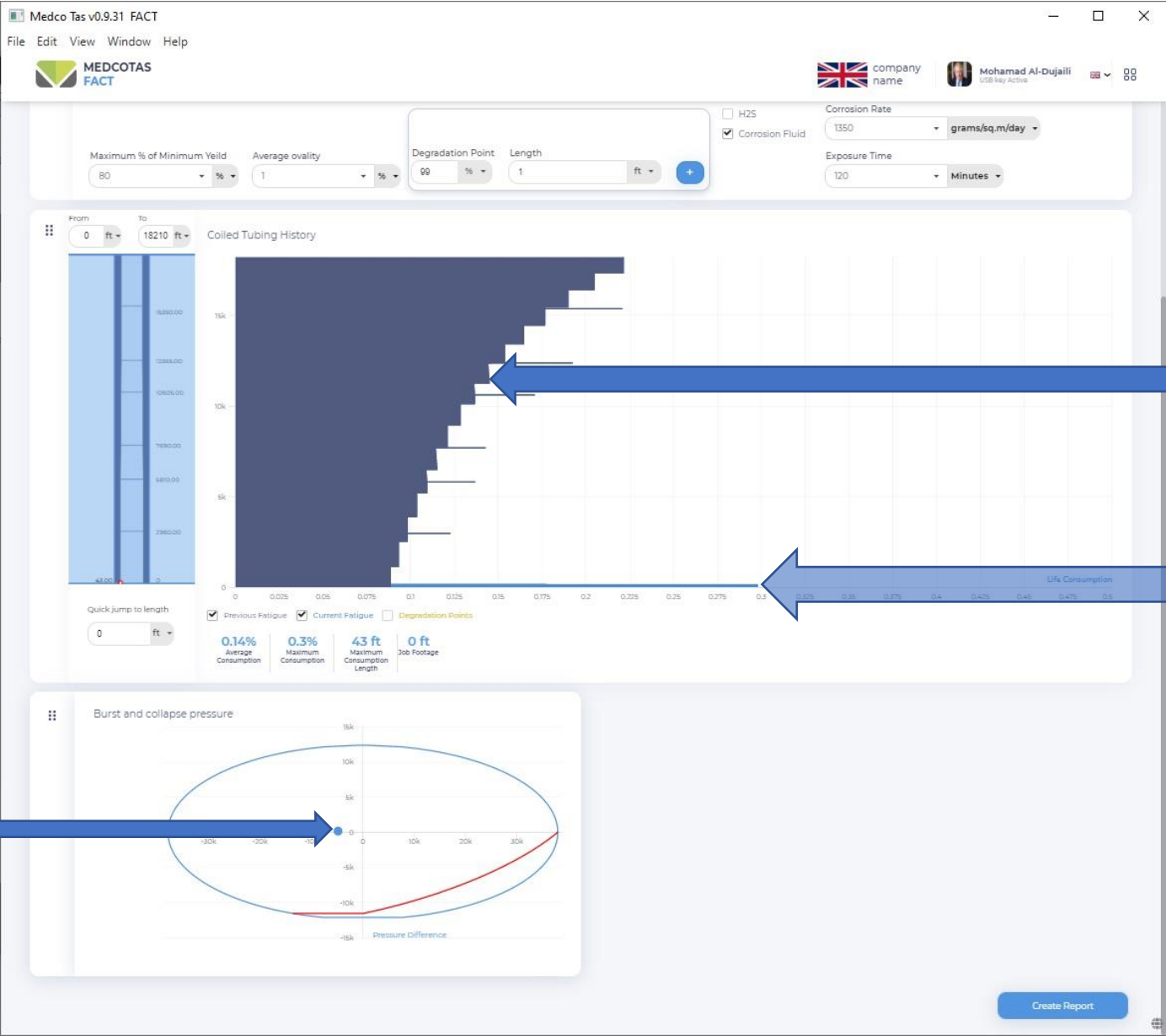
Cancel Run

Pressure Drop psi

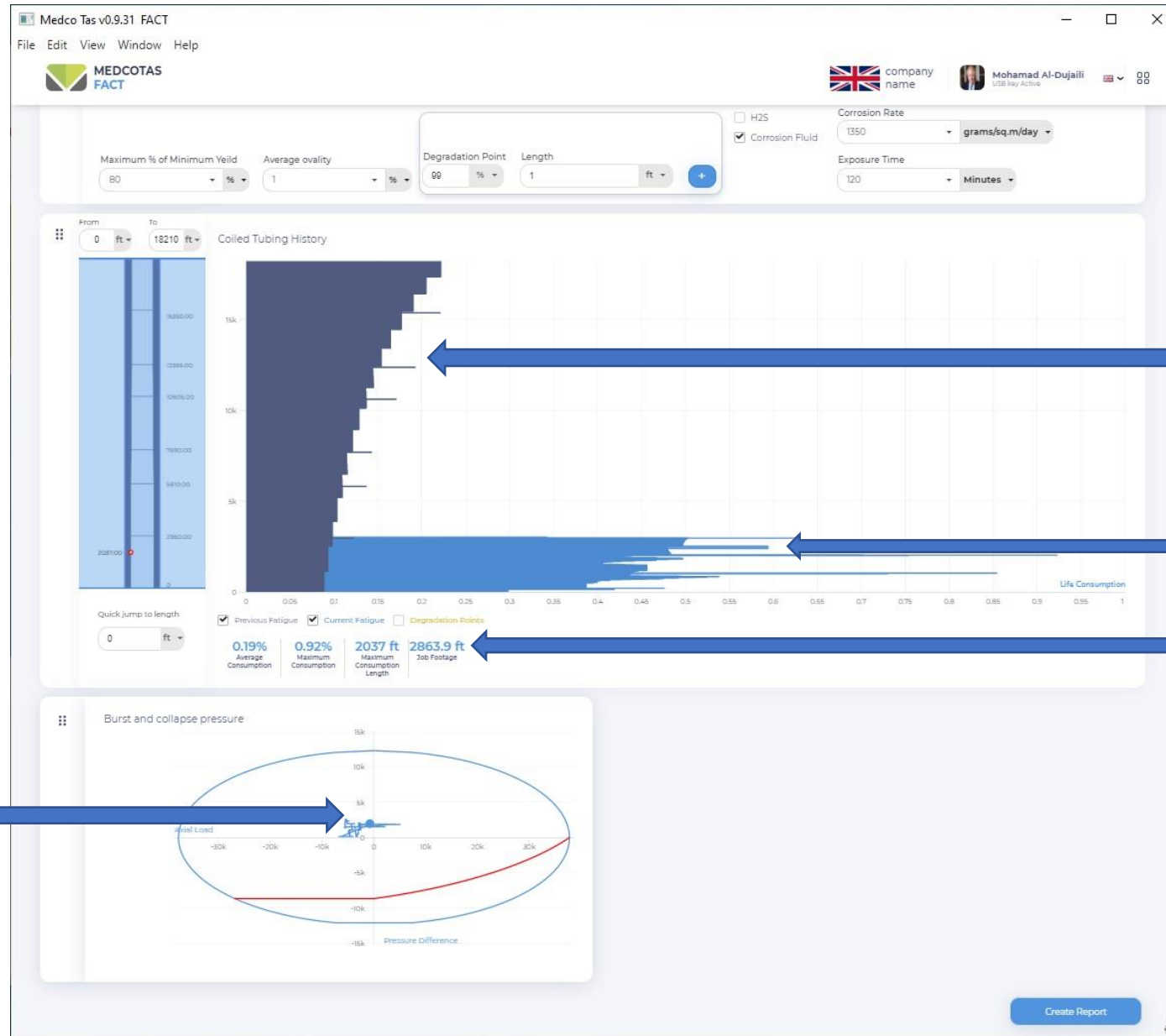
Click RUN

After clicking RUN, the DART parameters will appear. If the parameters are identified by FACT, they will be automatically assigned, otherwise drag & drop the appropriate parameter

Job in Well - Real Time Fatigue Analysis



Job in Well - Real Time Fatigue Analysis ... continued



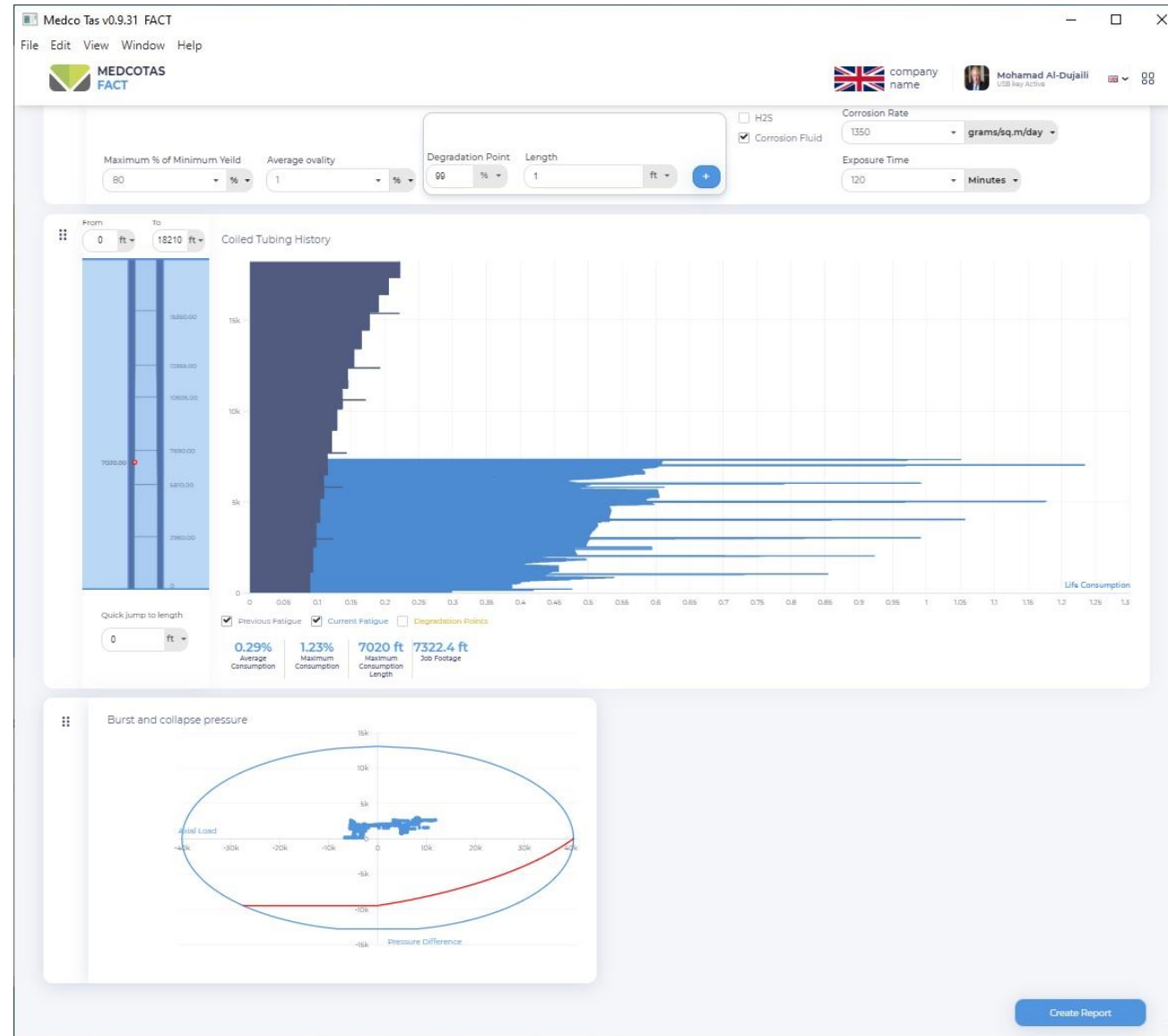
Previous fatigue shown in darker color

Current job fatigue is shown in lighter color

Current job footage

Current operation load and differential pressure traces shown on CT Burst/Collapse limits chart

Save the Job



After job is finished, click the STOP button then click SAVE

Job in Well - Post Job Fatigue Analysis

Medco Tas v0.9.31 FACT

File Edit View Window Help

MEDCOTAS FACT

company name Mohamad Al-Dujaili

Demo Post Job 15 Aug 2022

String History

String Cycles Failure

Connections

Demo 12 Aug 2022 DART_JOB_2022-08-12 04-30

Select the string

Select the DART job

Select Post Job Auto

Select the DART job

Select Job Type

Post Job Auto

Quality Module OFF ON

CTI-Pro Module OFF ON

Run

Gooseneck Radius 72 in

Reel to Gooseneck 30 ft

Gooseneck to 0 depth reference 12 ft

BHA Length 4 ft

BHA Pressure Drop 0 psi

Minimum movement 1 ft

Maximum % of Minimum Yield 80 %

Average ovality 1 %

Degradation Point 99 %

Length 1 ft

H2S

Corrosion Fluid

Corrosion Rate 1350 grams/sq.m/day

Exposure Time 120 Minutes

From 0 ft To 18210 ft

Coiled Tubing History

Quick jump to length 0 ft

0.28% Average Consumption

1.05% Maximum Consumption

6983 ft Maximum Consumption Length

0 ft Job Footage

Burst and collapse pressure

Life Consumption

Job in Well - Post Job Auto - Confirm the Job Parameters

Medco Tas v0.9.31 FACT

File Edit View Window Help

MEDCOTAS FACT

company name Mohamad Al-Dujaili

Demo Post Job 15 Aug 2022

String 1069 --- Reel 1069

String History

String Cycles Failure

Connections

Demo 15 Aug 2022 CHART_JOB_2022-08-15 04:30

Select Job Type: Post Job Auto

Gooseneck Radius: 72 in Reel to Gooseneck: 30

Maximum % of Minimum Yield: 80 Average ovality: 1

From: 0 ft To: 18210 ft Coiled Tubing History

Weight parameter: lbs

Depth parameter: ft

Wellhead Pressure parameter: psi

Tube Pressure parameter: psi

Available channels:

- ✓ HMI (I)-Light Weight
- ✓ Fluid Flow
- ✓ HMI (I)-Nitrogen Flow
- ✓ Speed
- ✓ Fluid Total
- ✓ HMI (I)-NitrogenTotal

Weight Indicator

Depth

Wellhead Pressure

Circulation Pressure

Cancel Save

Quick jump to length: 0 ft

0.28% Average Consumption 1.05% Maximum Consumption 6983 ft Maximum Consumption Length 0 ft Job Footage

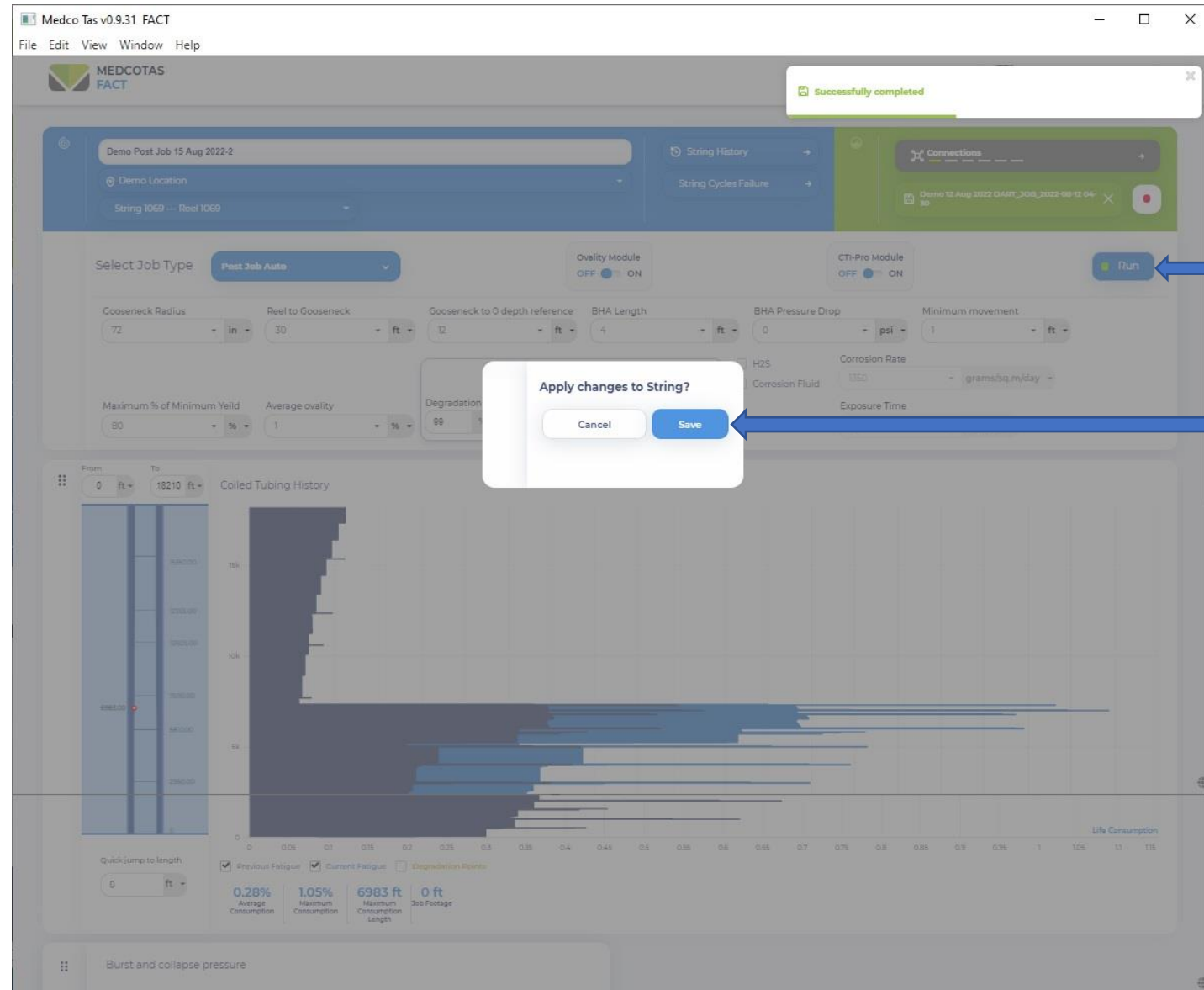
Burst and collapse pressure

Life Consumption

Ensure job parameters are correctly assigned

Click SAVE to continue

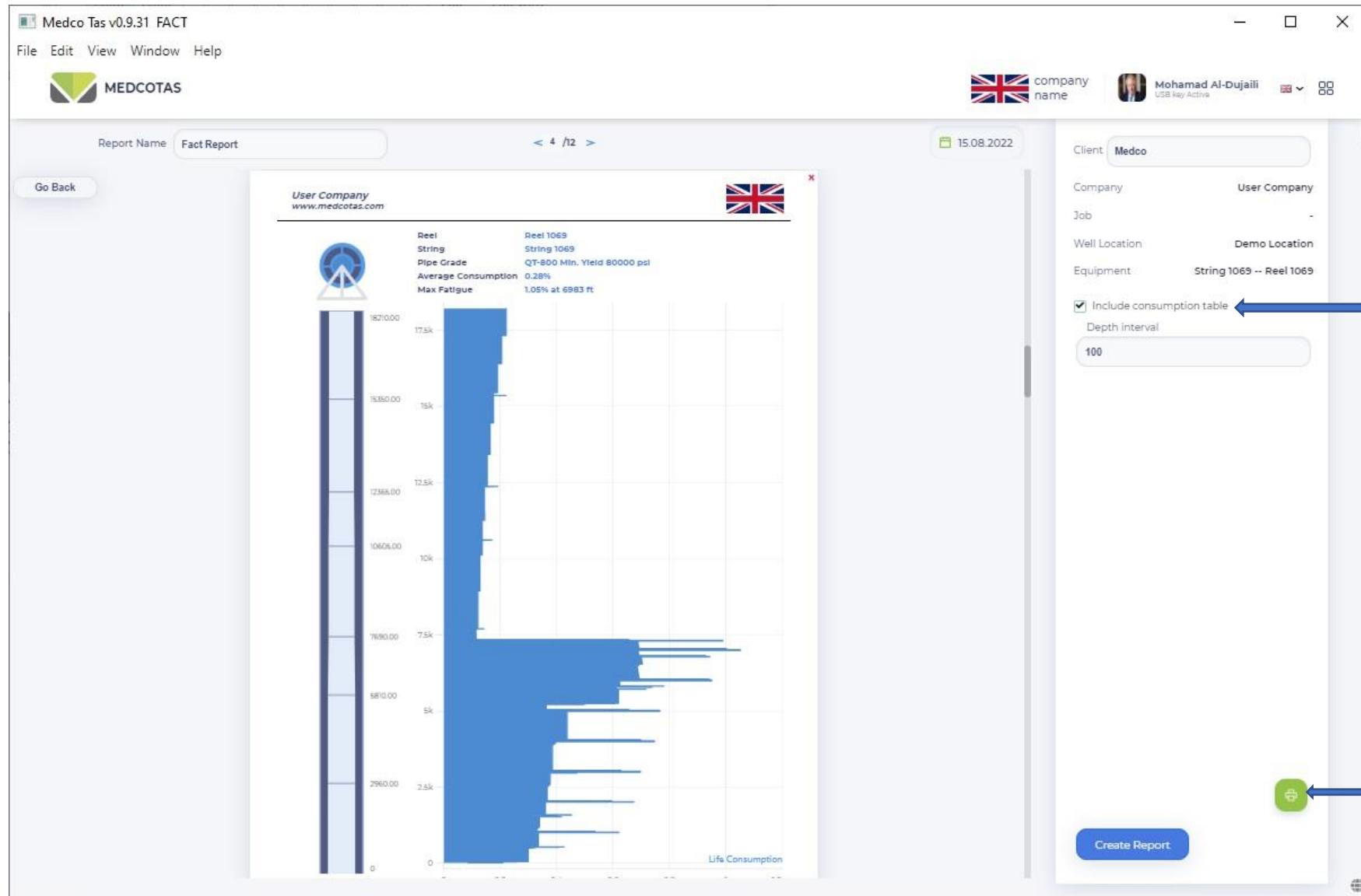
Job in Well - Post Job Auto continued



Generate Report



FACT Report



Select this check box if tabular life consumption data is required

Job in Well – Manual Data Entry

Assign a name to the job

Select Job in Well - Manual

Insert job data

Click the RUN button, it will automatically change to STOP. When finished, click STOP

Click CALCULATE

The screenshot shows the Medco Tas v0.9.31 FACT software interface. The main form is divided into several sections:

- Job Configuration:** Includes a text field for the job name (Manual Job 15 Aug 2022 - 01), a dropdown for the location (Demo Location), and buttons for String History, String Cycles Failure, and Open Job.
- Job Type Selection:** A dropdown menu labeled "Select Job Type" is set to "Manual".
- Modules:** Two toggle switches for "Ovality Module" and "CTI-Pro Module" are both set to "OFF".
- Parameters:** A series of input fields for various parameters: Gooseneck Radius (72 in), Reel to Gooseneck (30 ft), Gooseneck to 0 depth reference (12 ft), BHA Length (4 ft), BHA Pressure Drop (0 psi), Minimum movement (1 ft), Maximum % of Minimum Yield (80 %), Average ovality (1 %), Degradation Point (99 %), Length (1 ft), Corrosion Rate (1350 grams/sq.m/day), and Exposure Time (120 Minutes).
- Post job manual data:** A table with columns for Weight (lbs), Depth (ft), Wellhead Pressure (psi), and Tube Pressure (psi). The table contains three rows of data.
- Buttons:** "Add Row" and "Calculate" buttons are located below the data table.
- Visualization:** A "Coiled Tubing History" chart is displayed at the bottom, showing a graph of data over time.

	Weight lbs	Depth ft	Wellhead Pressure psi	Tube Pressure psi
3	3000	2000	50	350
4	3300	1900	50	350
5	4500	3000	50	350

Create New Reel

Medco Tas v0.9.31

File Edit View Window Help

MEDCOTAS

company name

Dart
last job session 13-08-2022 00:47:02

Full Dart →

Connections →

Open Job →

Assign TAS →

1

Fact
String Fatigue & Inspection

SELECT STRING

Select string

Full Fact →

String History →

String Cycles Failure →

Run Job In Well →

Run Job In Yard →

TAS
Tubing Analysis System

Full TAS →

Equipment All ▾

Add Equipment +

Test string

Demo String

NS-69

Well Locations

Test Location

Demo Location

Dart →

Fact →

Tas →

Cycles of Failure →

Quick Computation →

Job & Reports →

Equipment List →

Presets Database →

Multi-Phase Algorithm →

Locations →

User Profile →

Logout →

Click Equipment List

Create New Reel ... continued

Click "Create New"

Equipment Profiles

Select "Reel"

The screenshot shows the Medco Tas v0.9.31 application interface. The top bar includes the Medcotas logo, a company name with a UK flag, and a user profile for Mohamad Al-Dujaili. The main content area displays a table of equipment profiles. A dropdown menu is open under the 'Create new' button, showing options: String, Reel, and BHA. The 'Reel' option is selected. The table below shows a list of equipment profiles with columns for Name, Core diameter, Reel width, Outer diameter, Current String, and Date Created.

STRINGS		Average Fatigue	Max Fatigue	Max Fatigue Location	Date Created
Test string			!		19-07-2022
Demo String	QT-800		!		20-07-2022
NS-69	QT-900		!		02-08-2022
String 1069	QT-800		!		12-08-2022

REELS		Core diameter	Reel width	Outer diameter	Current String	Date Created
Test reel		76.000	74.000	135.000	Test string	19-07-2022
Demo Reel 1		72.000	70.000	135.000	Demo String	20-07-2022
NS-69		72.000	70.000	135.000	NS-69	02-08-2022

Create New Reel ... continued

Medco Tas v0.9.31

File Edit View Window Help

MEDCOTAS

company name

Mohamad Al-Dujaili
USB key Active

Equipment Profiles **Create new**

Filter

STRINGS

Name	Grade	Average Fatigue	Max Fatigue	Max Fatigue Location	Date Created
Reel 22					

REELS

Name	Grade	Average Fatigue	Max Fatigue	Max Fatigue Location	Date Created
Demo Reel 1	72.000	70.000	135.000	Demo String	20-07-2022
NS-69	72.000	70.000	135.000	NS-69	02-08-2022

Add new reel

Create Reel

Reel name: Reel 22

Core diameter: 72 in

Reel width: 70 in

Outer diameter: 135 in

Cancel Save Reel

Fill in REEL data

Click SAVE

Job in Yard – Spool to Another Reel

Enter job name

Enter the length
to be spooled, or
select FULL
LENGTH

The screenshot shows the 'Medco Tas v0.9.31 FACT' application window. The title bar includes 'File', 'Edit', 'View', 'Window', and 'Help' menus. The top navigation bar features the 'MEDCOTAS FACT' logo, a company name field with a UK flag, and a user profile for 'Mohamad Al-Dujaili'. The main interface is divided into several sections:

- Header Section:** Contains a text input field for 'Move String to Another Reel', a 'String History' button, and a 'String Cycles Failure' button. Below these are 'Demo Location' and 'String 1069 --- Reel 1069' dropdowns.
- Job Configuration Section:** Includes a 'Select Job Type' dropdown set to 'Spool To Another Reel' and a 'Run' button.
- Diagram Section:** A visual representation of the spooling process with 'Current Reel' and 'Receiving Reels' icons. A blue arrow points from the 'Enter the length' text to the 'Length' input field.
- Input Fields:** A 'Length' input field with '18210' and a unit dropdown set to 'ft'. Below it is an 'Is Full Length' checkbox and a 'Select reel' button with a dropdown arrow.
- String Details Section:** Includes a 'New String Name' input field and a 'Degradation Point' field set to '99 %'.
- History Section:** A 'Coiled Tubing History' table with 'From' and 'To' columns. The 'From' column shows values from 0 to 30000 in increments of 1000. The 'To' column shows values from 18210 to 15300 in increments of 1000. A blue arrow points from the 'Click to select an empty reel' text to the 'Select reel' button.

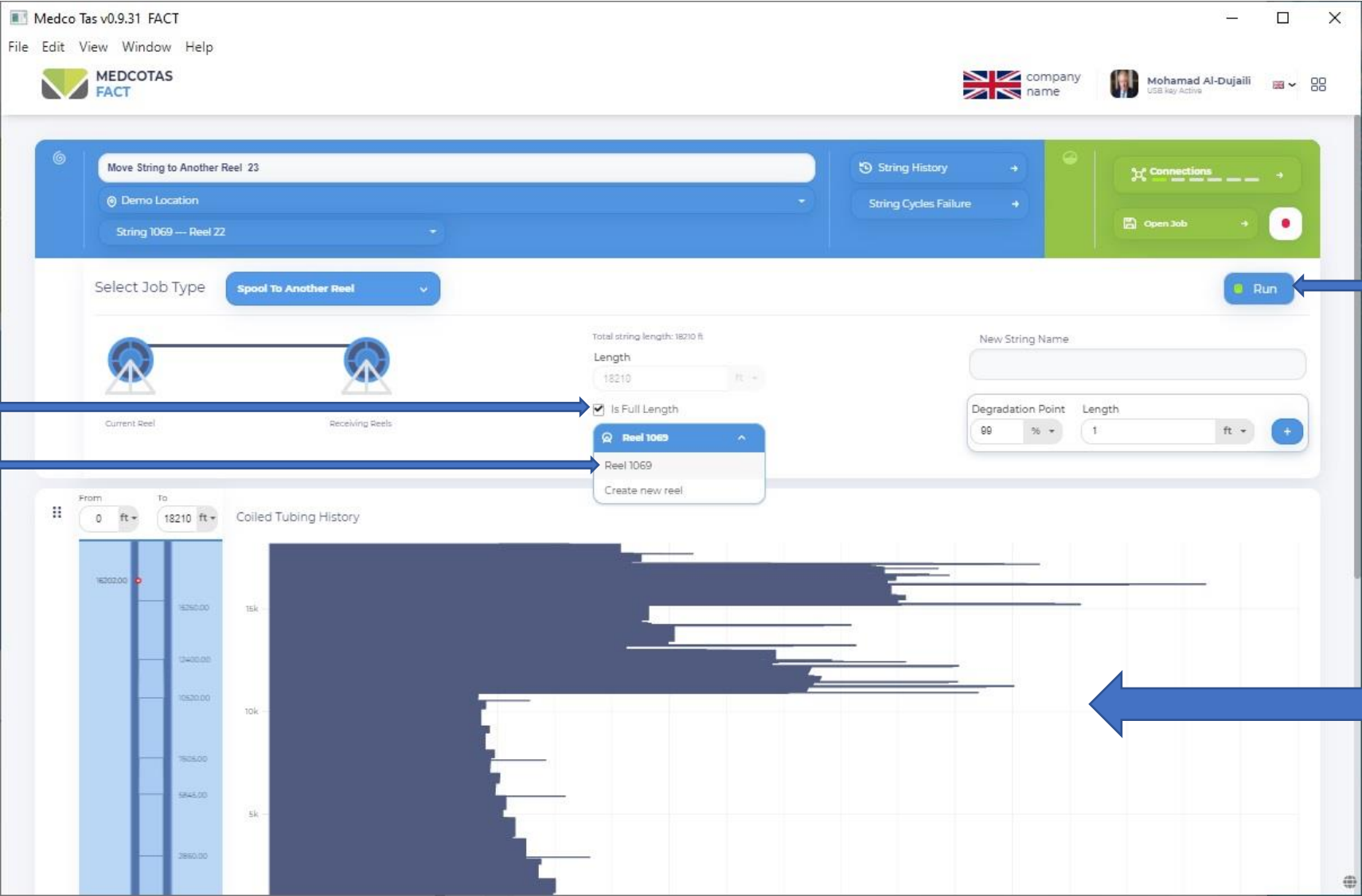
This function may only be used with an empty reel.

It can be used to move part of the coiled tubing string, or the full length.

Typical example, new string received on shipping spool and needs to be moved to work reel.

If FULL LENGTH is selected, the string will be assigned the original name automatically, otherwise the user needs to specify a new name

Job in Yard – Spool to Another Reel ... continued



Full length option selected

Empty reel selected

Click RUN

NOTE: String is now inverted

Job in Yard – Cut Free End

This function is commonly required between jobs in well as the operator is likely to cut a piece of the string at the free end.

Select the “Cut free end” option

Medco Tas v0.9.31 FACT

File Edit View Window Help

MEDCOTAS FACT

company name Mohamad Al-Dujaili USB Key Active

Job name

Demo Location

String 1069 --- Reel 1069

String History

String Cycles Failure

Connections

Open Job

Select Job Type

Gooseneck Radius: 72

Maximum % of Minimum: 80

Realtime Auto

- JOB IN WELL
- Realtime Auto
- Post Job Auto
- Manual
- JOB IN YARD
- Spool To Another Reel
- Cut free end
- Spool off cut and back on
- Inspection spool off and back on
- Spool off and weld to another string
- Spool off and weld to another string...

Gooseneck to 0 depth reference: 12 ft

BHA Length: 4 ft

BHA Pressure Drop: 0 psi

Minimum movement: 1 ft

CTI-Pro Module: OFF ON

Quality Module: OFF ON

Cancel Run

Degradation Point: 99 %

Length: 1 ft

H2S

Corrosion Fluid

Corrosion Rate: 1350 grams/sq.m/day

Exposure Time: 120 Minutes

From: 0 ft To: 18210 ft

Depth (ft)	Pressure (psi)	Temperature (°F)	Flow Rate (gpm)	Spool Length (ft)
18210.00	1000.00	100.00	10.00	10.00
18190.00	1000.00	100.00	10.00	10.00
18170.00	1000.00	100.00	10.00	10.00
18150.00	1000.00	100.00	10.00	10.00
18130.00	1000.00	100.00	10.00	10.00
18110.00	1000.00	100.00	10.00	10.00
18090.00	1000.00	100.00	10.00	10.00
18070.00	1000.00	100.00	10.00	10.00
18050.00	1000.00	100.00	10.00	10.00
18030.00	1000.00	100.00	10.00	10.00
18010.00	1000.00	100.00	10.00	10.00
17990.00	1000.00	100.00	10.00	10.00
17970.00	1000.00	100.00	10.00	10.00
17950.00	1000.00	100.00	10.00	10.00
17930.00	1000.00	100.00	10.00	10.00
17910.00	1000.00	100.00	10.00	10.00
17890.00	1000.00	100.00	10.00	10.00
17870.00	1000.00	100.00	10.00	10.00
17850.00	1000.00	100.00	10.00	10.00
17830.00	1000.00	100.00	10.00	10.00
17810.00	1000.00	100.00	10.00	10.00
17790.00	1000.00	100.00	10.00	10.00
17770.00	1000.00	100.00	10.00	10.00
17750.00	1000.00	100.00	10.00	10.00
17730.00	1000.00	100.00	10.00	10.00
17710.00	1000.00	100.00	10.00	10.00
17690.00	1000.00	100.00	10.00	10.00
17670.00	1000.00	100.00	10.00	10.00
17650.00	1000.00	100.00	10.00	10.00
17630.00	1000.00	100.00	10.00	10.00
17610.00	1000.00	100.00	10.00	10.00
17590.00	1000.00	100.00	10.00	10.00
17570.00	1000.00	100.00	10.00	10.00
17550.00	1000.00	100.00	10.00	10.00
17530.00	1000.00	100.00	10.00	10.00
17510.00	1000.00	100.00	10.00	10.00
17490.00	1000.00	100.00	10.00	10.00
17470.00	1000.00	100.00	10.00	10.00
17450.00	1000.00	100.00	10.00	10.00
17430.00	1000.00	100.00	10.00	10.00
17410.00	1000.00	100.00	10.00	10.00
17390.00	1000.00	100.00	10.00	10.00
17370.00	1000.00	100.00	10.00	10.00
17350.00	1000.00	100.00	10.00	10.00
17330.00	1000.00	100.00	10.00	10.00
17310.00	1000.00	100.00	10.00	10.00
17290.00	1000.00	100.00	10.00	10.00
17270.00	1000.00	100.00	10.00	10.00
17250.00	1000.00	100.00	10.00	10.00
17230.00	1000.00	100.00	10.00	10.00
17210.00	1000.00	100.00	10.00	10.00
17190.00	1000.00	100.00	10.00	10.00
17170.00	1000.00	100.00	10.00	10.00
17150.00	1000.00	100.00	10.00	10.00
17130.00	1000.00	100.00	10.00	10.00
17110.00	1000.00	100.00	10.00	10.00
17090.00	1000.00	100.00	10.00	10.00
17070.00	1000.00	100.00	10.00	10.00
17050.00	1000.00	100.00	10.00	10.00
17030.00	1000.00	100.00	10.00	10.00
17010.00	1000.00	100.00	10.00	10.00
16990.00	1000.00	100.00	10.00	10.00
16970.00	1000.00	100.00	10.00	10.00
16950.00	1000.00	100.00	10.00	10.00
16930.00	1000.00	100.00	10.00	10.00
16910.00	1000.00	100.00	10.00	10.00
16890.00	1000.00	100.00	10.00	10.00
16870.00	1000.00	100.00	10.00	10.00
16850.00	1000.00	100.00	10.00	10.00
16830.00	1000.00	100.00	10.00	10.00
16810.00	1000.00	100.00	10.00	10.00
16790.00	1000.00	100.00	10.00	10.00
16770.00	1000.00	100.00	10.00	10.00
16750.00	1000.00	100.00	10.00	10.00
16730.00	1000.00	100.00	10.00	10.00
16710.00	1000.00	100.00	10.00	10.00
16690.00	1000.00	100.00	10.00	10.00
16670.00	1000.00	100.00	10.00	10.00
16650.00	1000.00	100.00	10.00	10.00
16630.00	1000.00	100.00	10.00	10.00
16610.00	1000.00	100.00	10.00	10.00
16590.00	1000.00	100.00	10.00	10.00
16570.00	1000.00	100.00	10.00	10.00
16550.00	1000.00	100.00	10.00	10.00
16530.00	1000.00	100.00	10.00	10.00
16510.00	1000.00	100.00	10.00	10.00
16490.00	1000.00	100.00	10.00	10.00
16470.00	1000.00	100.00	10.00	10.00
16450.00	1000.00	100.00	10.00	10.00
16430.00	1000.00	100.00	10.00	10.00
16410.00	1000.00	100.00	10.00	10.00
16390.00	1000.00	100.00	10.00	10.00
16370.00	1000.00	100.00	10.00	10.00
16350.00	1000.00	100.00	10.00	10.00
16330.00	1000.00	100.00	10.00	10.00
16310.00	1000.00	100.00	10.00	10.00
16290.00	1000.00	100.00	10.00	10.00
16270.00	1000.00	100.00	10.00	10.00
16250.00	1000.00	100.00	10.00	10.00
16230.00	1000.00	100.00	10.00	10.00
16210.00	1000.00	100.00	10.00	10.00
16190.00	1000.00	100.00	10.00	10.00
16170.00	1000.00	100.00	10.00	10.00
16150.00	1000.00	100.00	10.00	10.00
16130.00	1000.00	100.00	10.00	10.00
16110.00	1000.00	100.00	10.00	10.00
16090.00	1000.00	100.00	10.00	10.00
16070.00	1000.00	100.00	10.00	10.00
16050.00	1000.00	100.00	10.00	10.00
16030.00	1000.00	100.00	10.00	10.00
16010.00	1000.00	100.00	10.00	10.00
15990.00	1000.00	100.00	10.00	10.00
15970.00	1000.00	100.00	10.00	10.00
15950.00	1000.00	100.00	10.00	10.00
15930.00	1000.00	100.00	10.00	10.00
15910.00	1000.00	100.00	10.00	10.00
15890.00	1000.00	100.00	10.00	10.00
15870.00	1000.00	100.00	10.00	10.00
15850.00	1000.00	100.00	10.00	10.00
15830.00	1000.00	100.00	10.00	10.00
15810.00	1000.00	100.00	10.00	10.00
15790.00	1000.00	100.00	10.00	10.00
15770.00	1000.00	100.00	10.00	10.00
15750.00	1000.00	100.00	10.00	10.00
15730.00	1000.00	100.00	10.00	10.00
15710.00	1000.00	100.00	10.00	10.00
15690.00	1000.00	100.00	10.00	10.00
15670.00	1000.00	100.00	10.00	10.00
15650.00	1000.00	100.00	10.00	10.00
15630.00	1000.00	100.00	10.00	10.00
15610.00	1000.00	100.00	10.00	10.00
15590.00	1000.00	100.00	10.00	10.00
15570.00	1000.00	100.00	10.00	10.00
15550.00	1000.00	100.00	10.00	10.00
15530.00	1000.00	100.00	10.00	10.00
15510.00	1000.00	100.00	10.00	10.00
15490.00	1000.00	100.00	10.00	10.00
15470.00	1000.00	100.00	10.00	10.00
15450.00	1000.00	100.00	10.00	10.00
15430.00	1000.00	100.00	10.00	10.00
15410.00	1000.00	100.00	10.00	10.00
15390.00	1000.00	100.00	10.00	10.00
15370.00	1000.00	100.00	10.00	10.00
15350.00	1000.00	100.00	10.00	10.00
15330.00	1000.00	100.00	10.00	10.00
15310.00	1000.00	100.00	10.00	10.00
15290.00	1000.00	100.00	10.00	10.00
15270.00	1000.00	100.00	10.00	10.00
15250.00	1000.00	100.00	10.00	10.00
15230.00	1000.00	100.00	10.00	10.00
15210.00	1000.00	100.00	10.00	10.00
15190.00	1000.00	100.00	10.00	10.00
15170.00	1000.00	100.00	10.00	10.00
15150.00	1000.00	100.00	10.00	10.00
15130.00	1000.00	100.00	10.00	10.00
15110.00	1000.00	100.00	10.00	10.00
15090.00	1000.00	100.00	10.00	10.00
15070.00	1000.00	100.00	10.00	10.00
15050.00	1000.00	100.00	10.00	10.00
15030.00	1000.00	100.00	10.00	10.00
15010.00	1000.00	100.00	10.00	10.00
14990.00	1000.00	100.00	10.00	10.00
14970.00	1000.00	100.00	10.00	10.00
14950.00	1000.00	100.00	10.00	10.00
14930.00	1000.00	100.00	10.00	10.00
14910.00	1000.00	100.00	10.00	10.00
14890.00	1000.00	100.00	10.00	10.00
14870.00	1000.00	100.00	10.00	10.00
14850.00	1000.00	100.00	10.00	10.00
14830.00	1000.00	100.00	10.00	10.00
14810.00	1000.00	100.00	10.00	10.00
14790.00	1000.00	100.00	10.00	10.00
14770.00	1000.00	100.00	10.00	10.00
14750.00	1000.00	100.00	10.00	10.00
14730.00	1000.00	100.00	10.00	10.00
14710.00	1000.00	100.00	10.00	10.00
14690.00	1000.00	100.00	10.00	10.00
14670.00	1000.00	100.00	10.00	10.00
14650.00	1000.00	100.00	10.00	10.00
14630.00	1000.00	100.00	10.00	10.00
14610.00	1000.00	100.00	10.00	10.00
14590.00	1000.00	100.00	10.00	10.00
14570.00	1000.00	100.00	10.00	10.00
14550.00	1000.00	100.00	10.00	10.00
14530.00	1000.00	100.00	10.00	10.00
14510.00	1000.00	100.00	10.00	10.00
14490.00	1000.00	100.00	10.00	10.00
14470.00	1000.00	100.00	10.00	10.00
14450.00	1000.00	100.00	10.00	10.00
14430.00	1000.00	100.00	10.00	10.00
14410.00	1000.00	100.00	10.00	10.00
14390.00	1000.00	100.00	10.00	10.00
14370.00	1000.00	100.00	10.00	10.00
14350.00	1000.00	100.00	10.00	10.00
143				

Job in Yard – Cut Free End ... continued

Enter job name

Enter length to be cut

The screenshot displays the Medco Tas v0.9.31 FACT software interface. At the top, a menu bar includes File, Edit, View, Window, and Help. Below the menu is the MEDCOTAS FACT logo. A notification bar at the top right states "Changes are apply to string(s)". The main interface is divided into several sections. On the left, there is a "Job Configuration" section with a text input field for "Cut Free End 24", a "Demo Location" dropdown, and a "String 1069 --- Reel 1069" dropdown. To the right of this section are buttons for "String History", "String Cycles Failure", "Connections", and "Open Job". Below the configuration section is a "Select Job Type" dropdown set to "Cut free end". A diagram shows a coiled tubing reel with a "Cut free end" indicated. To the right of the diagram, there are input fields for "Total string length: 18160 ft", "Cut length: 50 ft", "Degradation Point: 99 %", and "Length: 1 ft". A "Run" button is located to the right of the "Select Job Type" dropdown. Below the configuration section is a "Coiled Tubing History" section. It features a vertical scale on the left with values from 0 to 18160 ft. The main area is a graph showing "Life Consumption" on the x-axis (0 to 2.1) and "Life" on the y-axis (0 to 15k). A tooltip indicates "16977.000 Previous Fatigue 0.6%".

Click RUN

Job in Yard – Spool off cut and back on

Medco Tas v0.9.31 FACT

File Edit View Window Help

MEDCOTAS FACT

company name Mohamad Al-Dujaili

Spool off cut and back on 25

Demo Location

String 1069 — Reel 1069

String History

String Cycles Failure

Connections

Open Job

Select Job Type

Spool off cut and back on

Run

Total string length: 18160 ft

Reel 22

Weld Type

Orbital weld equal wall

Degradation Point

Length

99 % 1 ft +

Cut from length

3250 ft

Length

50 ft

Cut to length

3300 ft

Start of damaged length

End of damaged length

Length of damaged pipe

From To

0 ft 18160 ft

Coiled Tubing History

18300.00

12315.00

10955.00

7640.00

5760.00

2910.00

10k

5k

If some damage is found on the string, far from the free end, then will need to spool the string to an empty reel till reaching the damaged area, cut the damaged length, weld the two pieces of the string, and spool back on to the original reel.

