

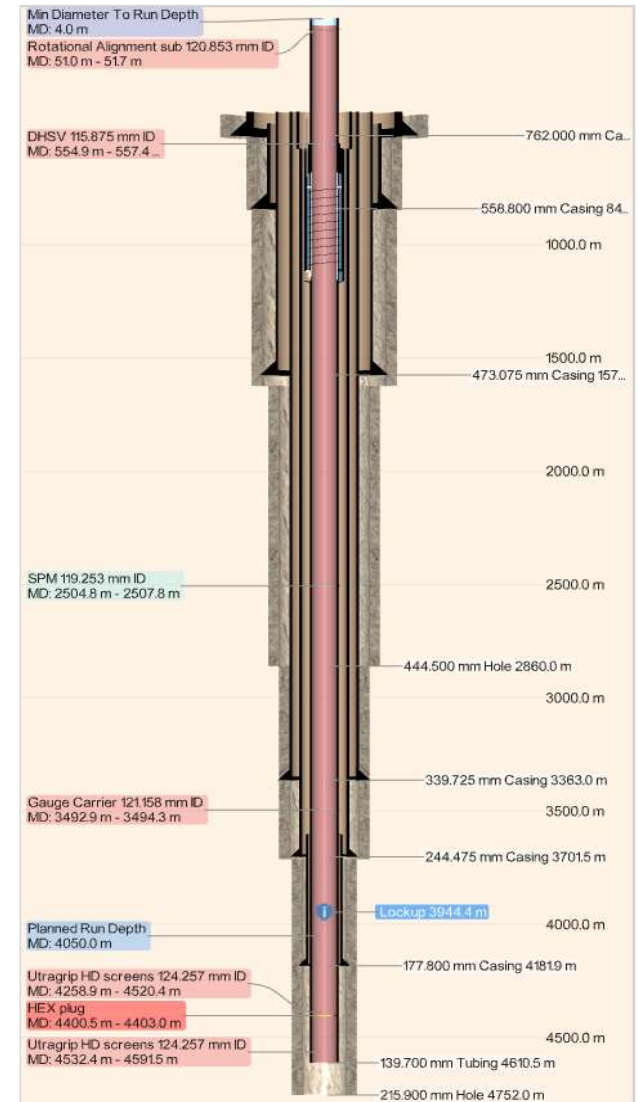


Real-time Collaborative Interventions

Off Shore Wireline Interventions and applications in
Land Operations in North America

The Issue

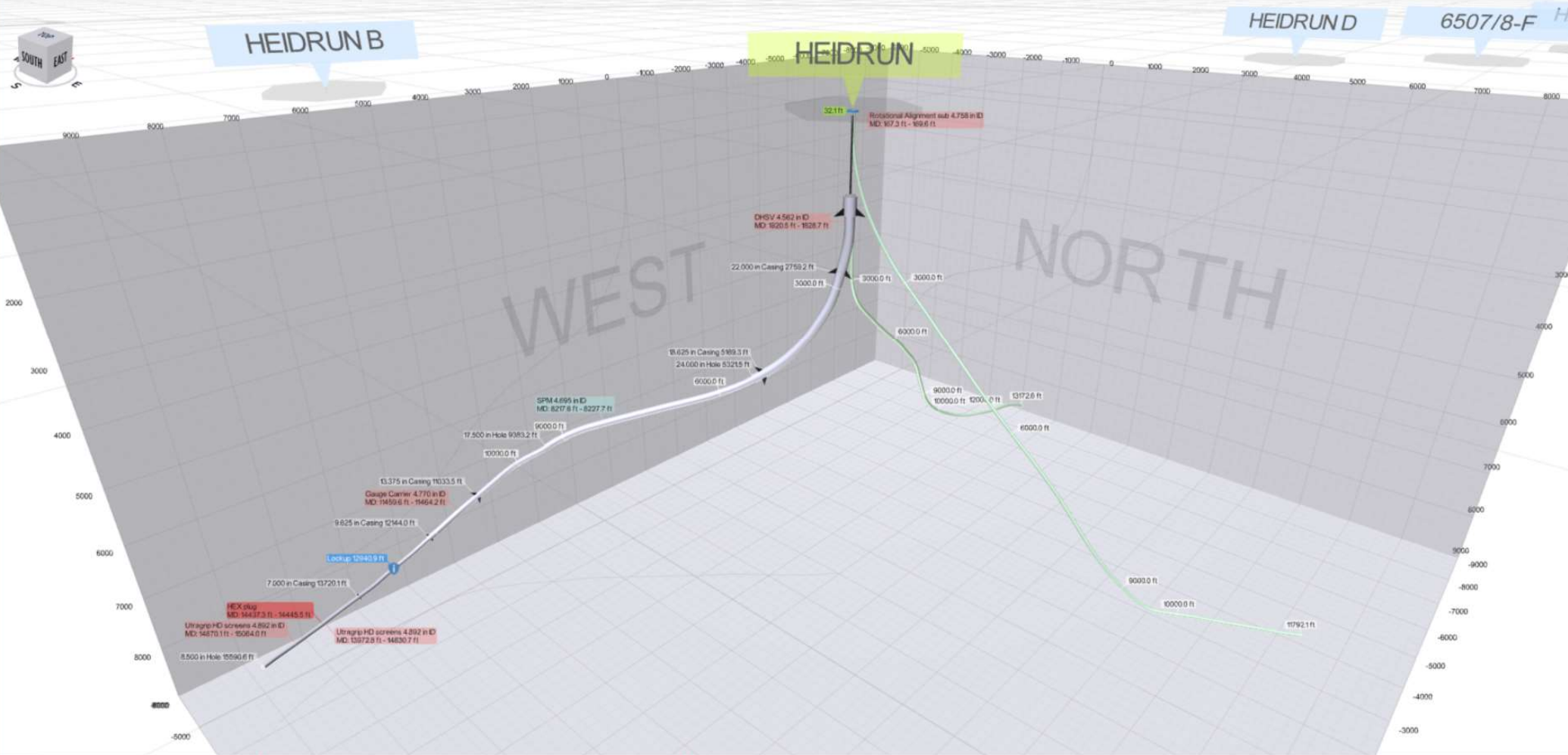
- Offshore platform
- Production drop
- Wireline unit on platform or Mobilize coil for cleanout?
- Wireline Bailer Run



Field: HEIDRUN Wellbore: 6507/7-A-46 AT2 TMD: 15590.6 ft WHP: -- Fluid Density: -- BHA: Bailing 2.5" BHAs available: 3

Options Move Live Play Panel Follow BHA Quick Peek Locate BHA POI: < > Move: ^ v Layout: 1 2V 2H 3 4 M

AN AR Topics



Pre-Job Objectives

- 3D Visualization of wellbore
- Collaboration in wireline modelling
- Collaboration between oil company and service company to select tool
- Ability to combine downhole and modelling data

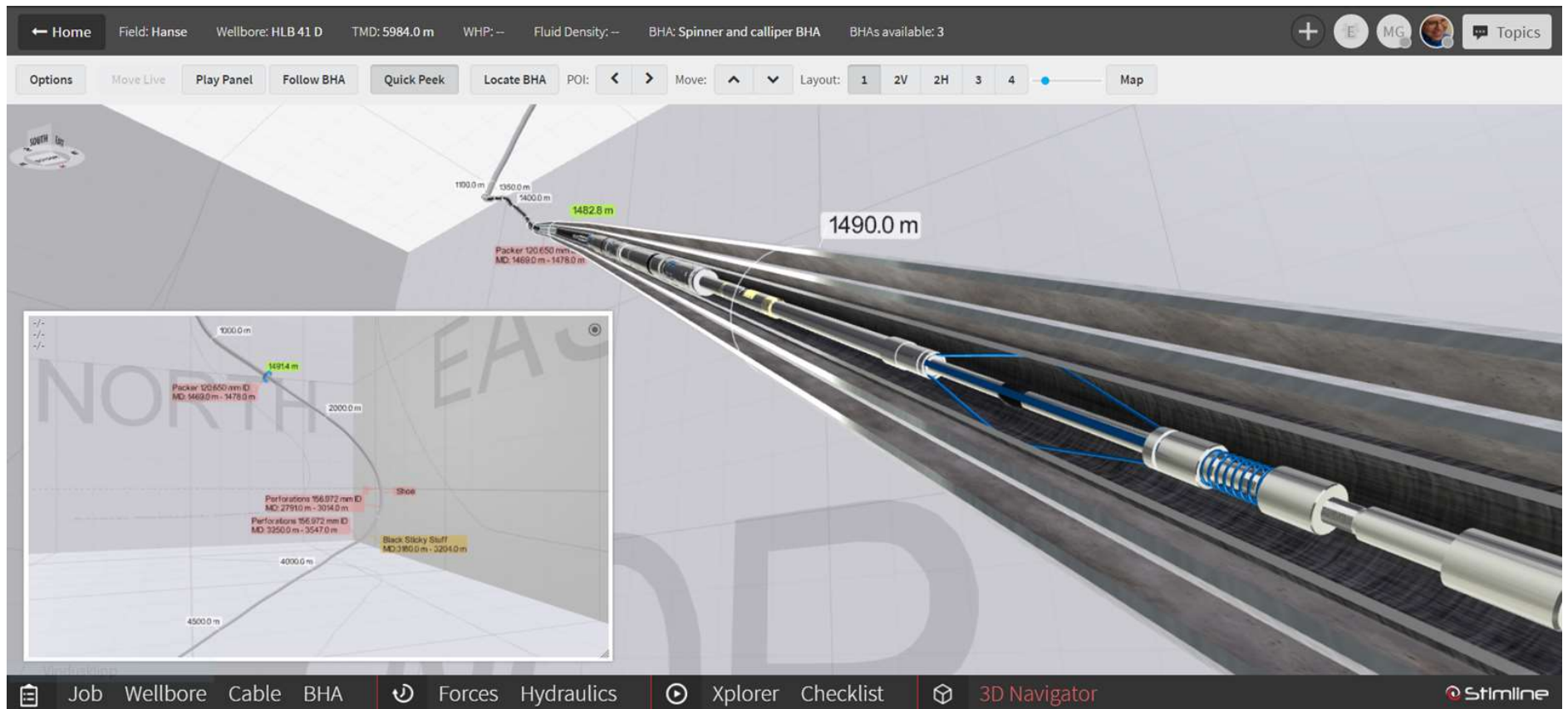
During Job Objectives

- Remote visibility of operations
- Real-time job monitoring
- Match data with pre-job models
- Adjust operations based on job data
- Data driven decisions

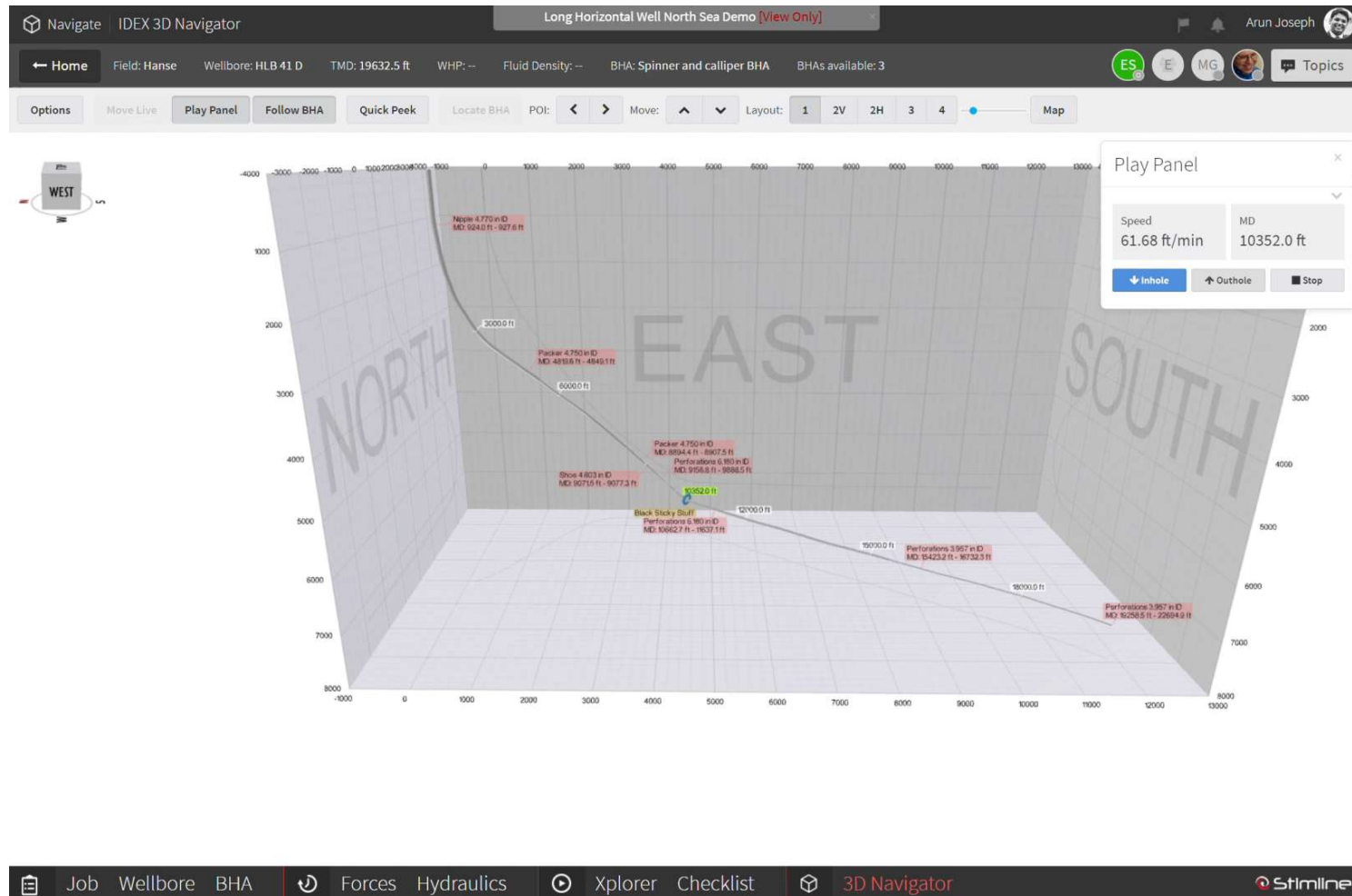
Results

- 3D Visualization of wellbore
- Wireline modelling
- Collaboration between oil company and service company to select tools
- Ability to integrate wellsite and modelling data
 - Real-time
 - Historical

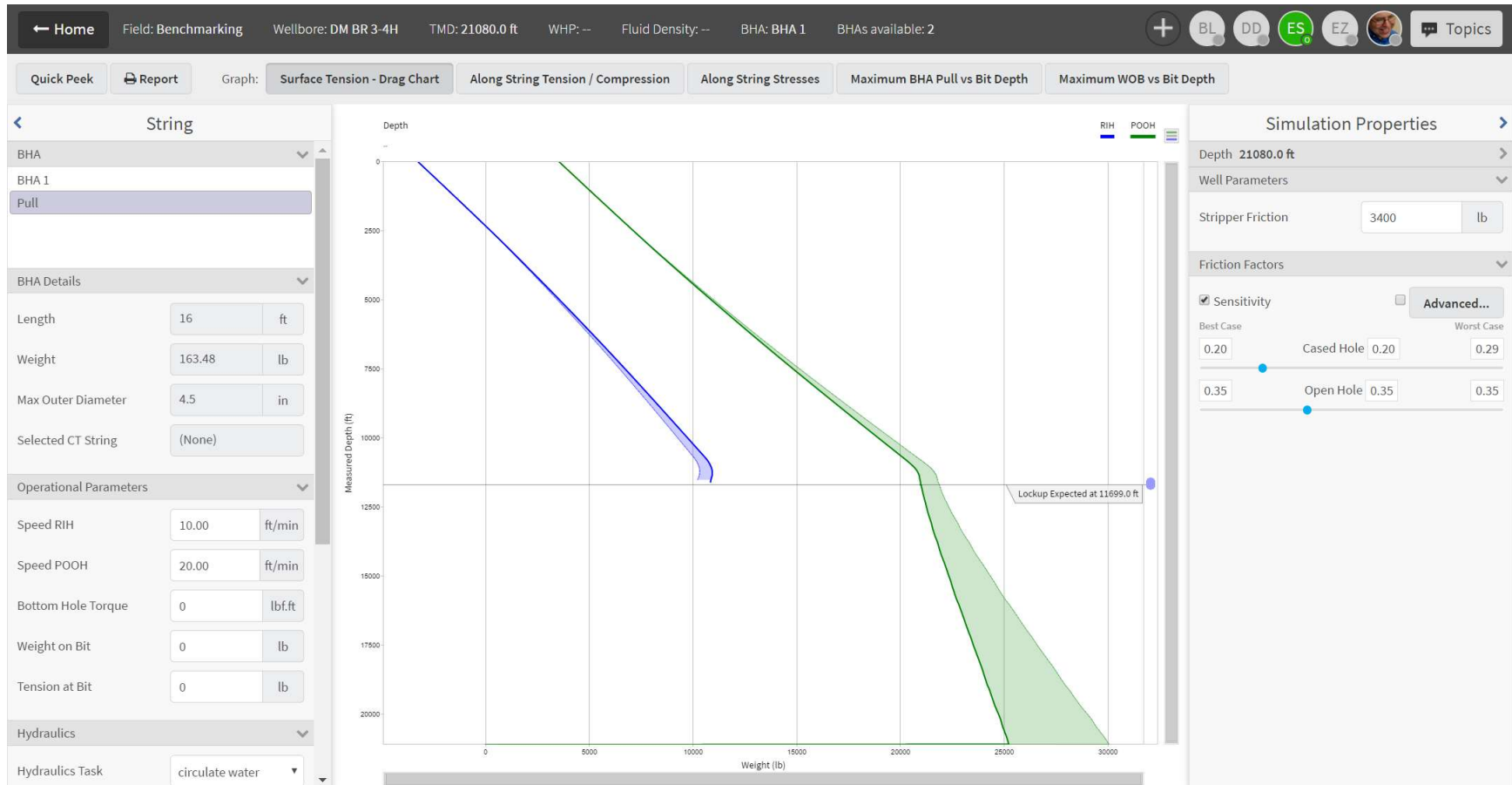
3D Visualization of Operations



3D Visualization of Operations



Wireline Modelling



Collaboration to Select Tools

Plan | IDEX Run Designer

A-46 AT2 B06 - Check HUD and perforate

Field: HEIDRUN Wellbore: 6507/7-A-46 AT2 TMD: 15590.6 ft WHP: -- Fluid Density: -- BHA: Bailing 2.5" BHAs available: 3

Home Favorites BHAs (3) Dimensions Options


AN AR Topics

Tools

Search Tool

- Accelerator
- Agitator
- Bailer
- Blind Box
- Bridge Plug
- Brush
- Cable Head
- Calliper MIT
- Capacitance Array Tool (CAT)
- Casing/Tubing Cutter
- Centralizer
- CT circulation sub
- Densimeter
- Dimple connector
- Drift
- Drill bit
- Flowmeter
- Gauge Cutter
- Jar
- Kick Over Tool
- Knuckle Joint
- Lead Impression Block
- Lithology Density Tool
- LOT
- Magnet
- Perforation Gun
- Pressure
- Pulling Tool
- Reducer

Schematic



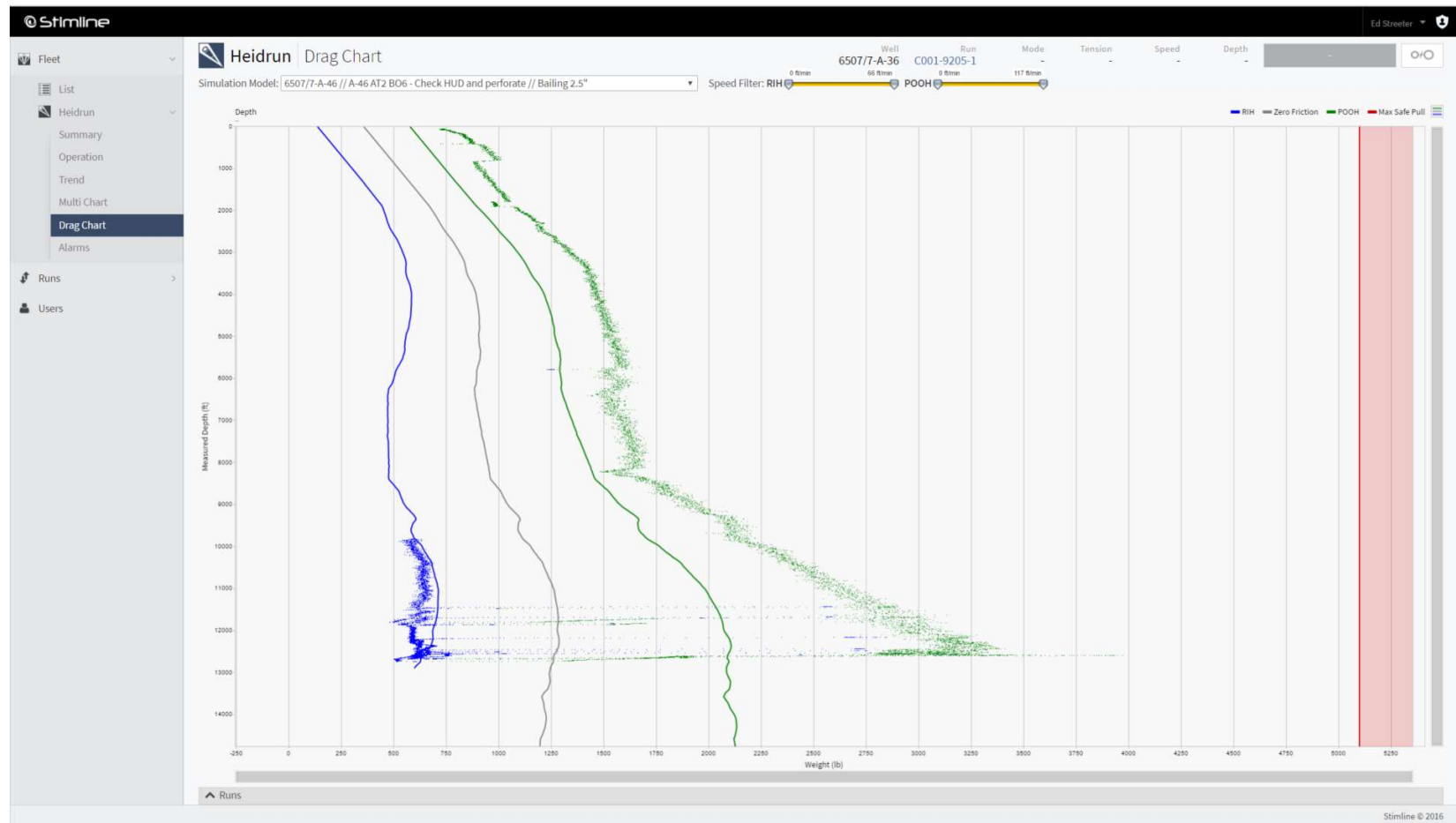
Details - Bailing 2.5"

Serial No	Item No	Category	Manufacturer	Model	FN [in]	OD [in]	Vol [in³]	L [ft]	W [lb]	Stroke [ft]	T Con	B Con	
	DS020933-M...	Cable Head	Dreieservice	Dreieservice Rope Socked 1.875	2.063	1.875	-	0.667	10.80	-		SRT 1-1/16 F	✕
	WF00418253	X-Over	Weatherford	Wireline Crossover 1.875	2.063	1.875	-	0.500	11.02	-	SRT 1-1/16 M	HDQLC 1 7/8 F	✕
	WF00419976	X-Over	Weatherford	Wireline Crossover 2.500	2.063	2.500	-	0.575	11.02	-	HDQLC 1 7/8 M	HDQLC 2 1/2 F	✕
	EZ122350	Jar	ITEC	Hydraulic Heavy Stroke Jar 2.500	2.313	2.500	-	7.033	104.94	-	HDQLC 2 1/2 M	HDQLC 2 1/2 F	✕
	WF00419233	X-Over	Weatherford	Wireline Crossover 2.500	0.000	2.500	-	0.500	2.20	-	HDQLC 2 1/2 M	HDQLC 1 7/8 F	✕
	WF00872444	Jar	Weatherford	Mechanical Link Jar 2.500	2.063	2.500	-	7.917	60.00	-	HDQLC 1 7/8 M	HDQLC 1 7/8 F	✕
	Unknown	X-Over	Unknown	Unknown	2.313	2.500	-	0.656	5.95	-	HDQLC 1 7/8 M	HDQLC 1 7/8 F	✕
	WF00872187	Stem	Weatherford	Weatherford Roller Stem 2.500	2.063	2.500	-	3.000	50.00	-	HDQLC 1 7/8 M	HDQLC 1 7/8 F	✕
	WF00872444	Jar	Weatherford	Mechanical Link Jar 2.500	2.063	2.500	-	7.917	60.00	-	HDQLC 1 7/8 M	HDQLC 1 7/8 F	✕
	DS103598	Centralizer	Dreieservice	Fluted Centralizer 4.0	2.063	4.000	-	1.760	20.00	-	HDQLC 1 7/8 M	HDQLC 1 7/8 F	✕
	Unknown	Bailer	Unknown	Bailer Pump 2.500	1.750	2.500	-	1.608	79.37	-	HDQLC 1 7/8 M		✕
Max OD / Totals						4.000	0.00	32.133	415.31	0.000			
Tool Details													
No tool selected													

Job Wellbore BHA Simulation Xplorer Checklist 3D Navigator

Stimline

Integration of Wellsite and Modelled Data in Real-Time



North American Land Operations

- Visualization of wellbore
- Job modelling
- Collaboration between client and providers
- Remote visibility of operations
- Ability to combine wellsite and modelling data



Questions?

