Neu Dimension
Your Integrated Solutions Partner

Warrior: Plot Job Editor Programming

Junior Field Engineer Project Report

Abdul Hadi Bin Hisham

OUTLINE

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I. Introduction

II. How to Use

III. Conclusion

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INTRODUCTION

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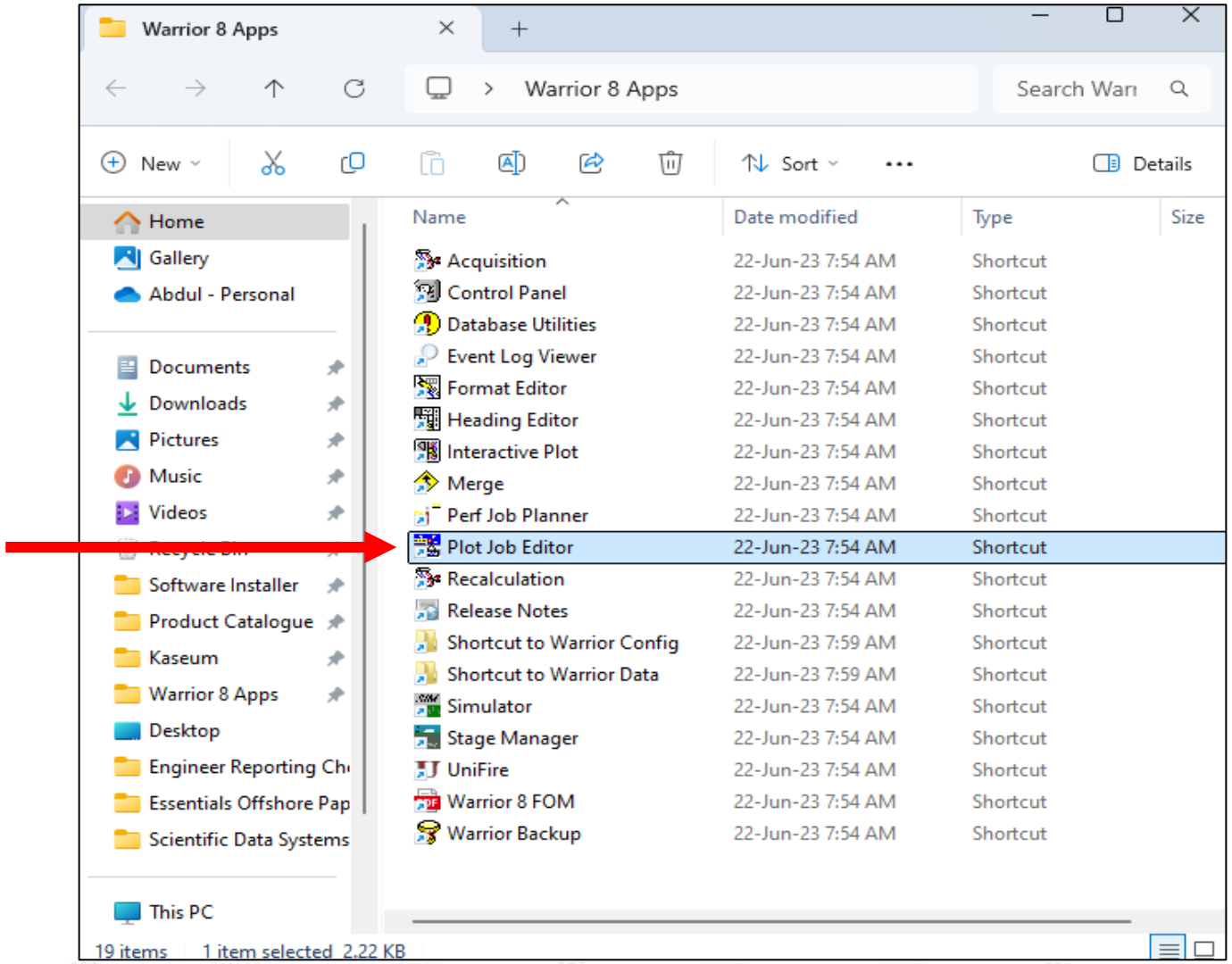
- The Plot Job Editor in Warrior is a module that allows the user to organize different elements (such as headings, log sections, etc.) of a well log for its final display.
- The completed plot job details are stored in a well log database, typically alongside the log data.
- The Presentation Plot program then uses this plot job information to generate the graphical output for a plotter or other graphic devices (such as a fax file, etc.).
- Generally, the sequence of plot is as shown:

- Heading
- Tool Diagram
- Log
- Sensor Report
- Calibration Report

HOW TO USE

- Step 1: Open Plot Job Editor.



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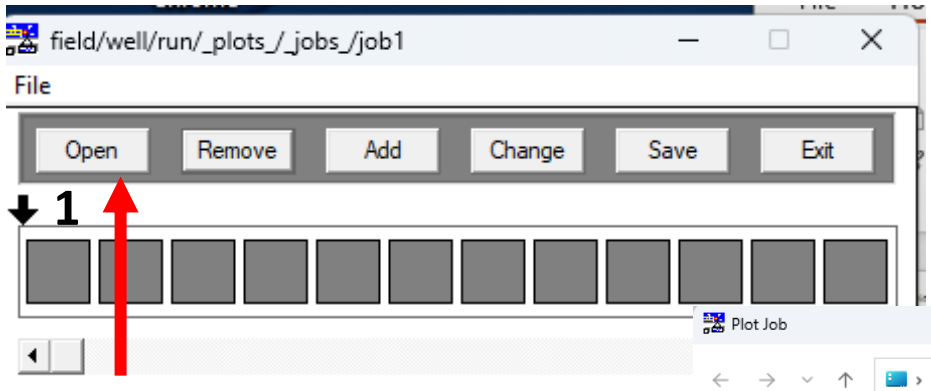
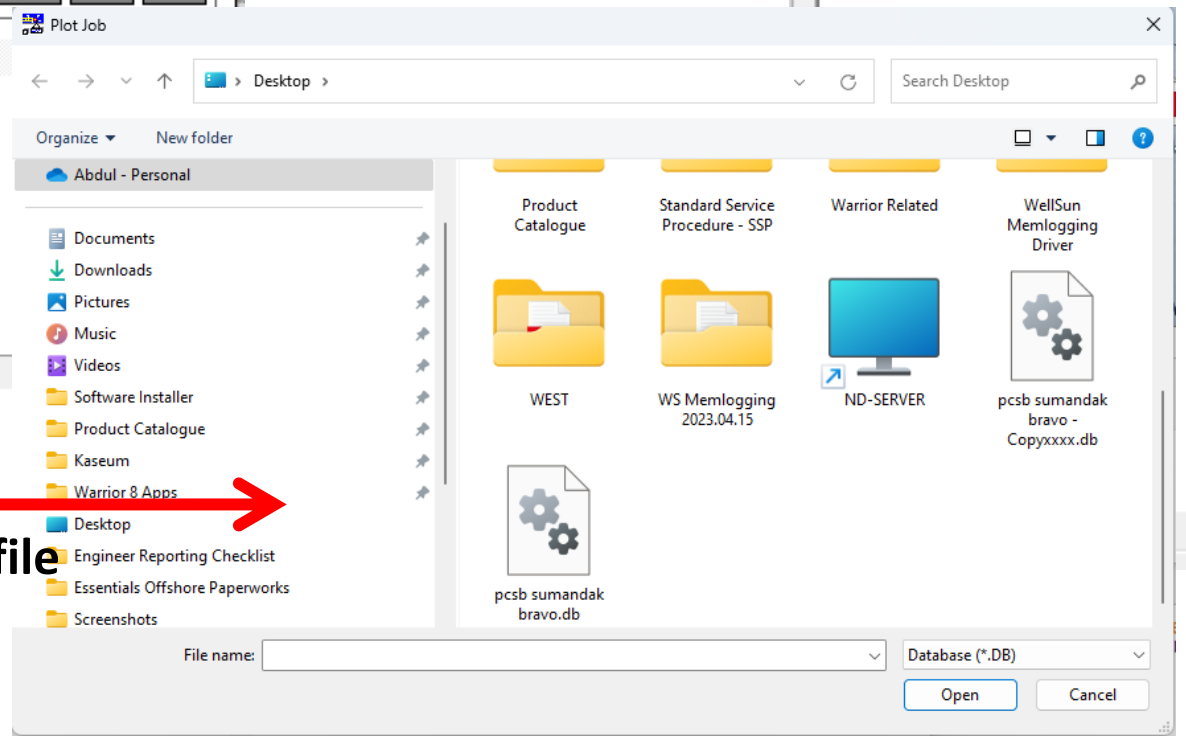
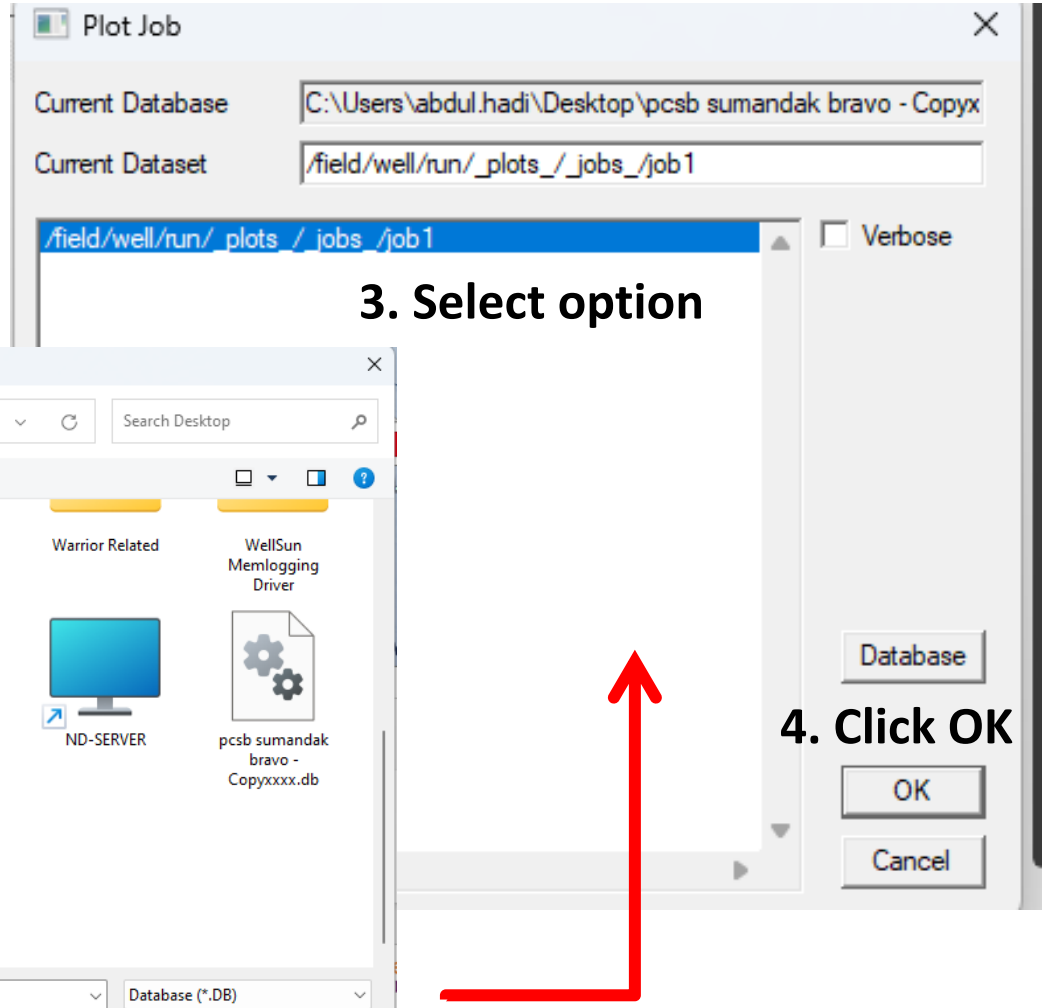
- Step 2: Open your logging data file ('xxxx'.db)



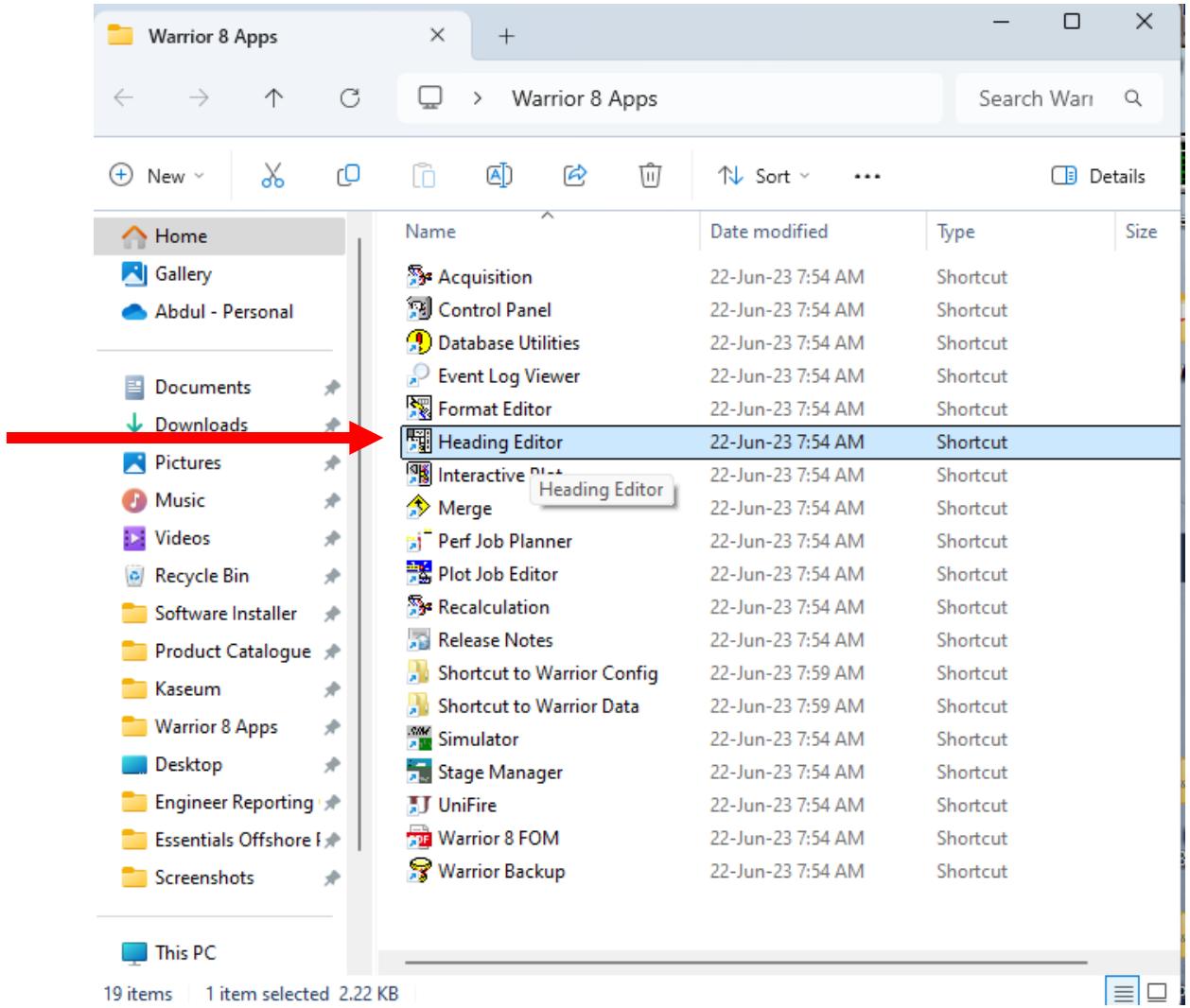


2. Search for your file



HOW TO USE

- Step 3: Heading



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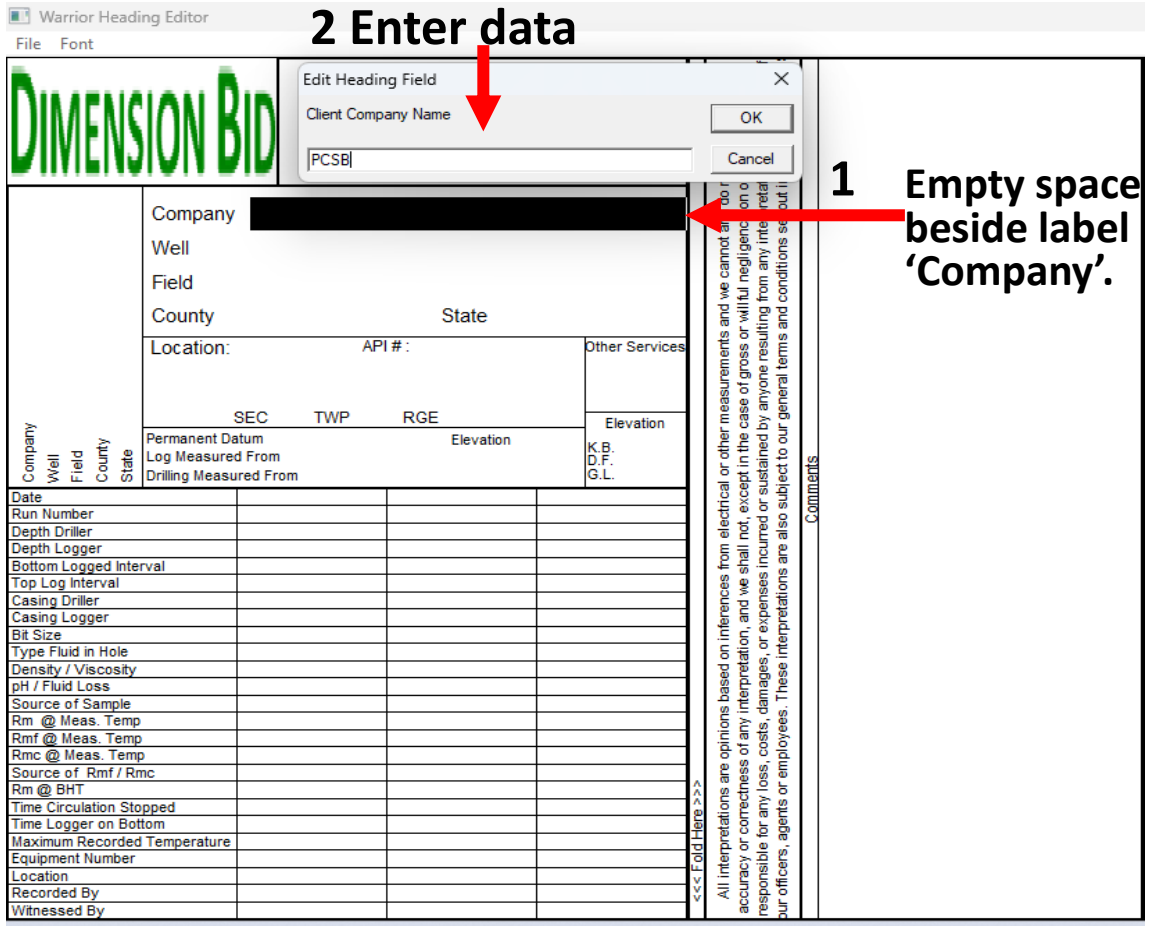
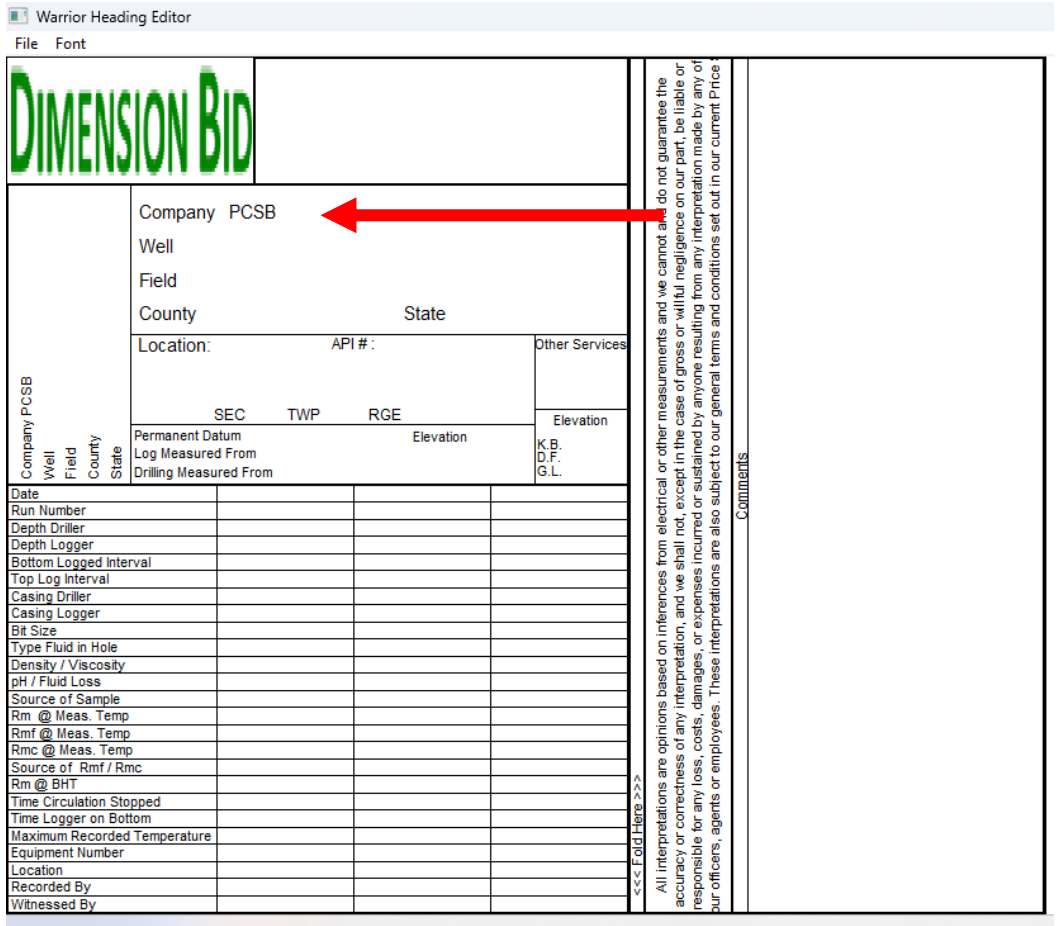
Step 3: Heading

Select empty space beside label & enter related data. Example shown below.



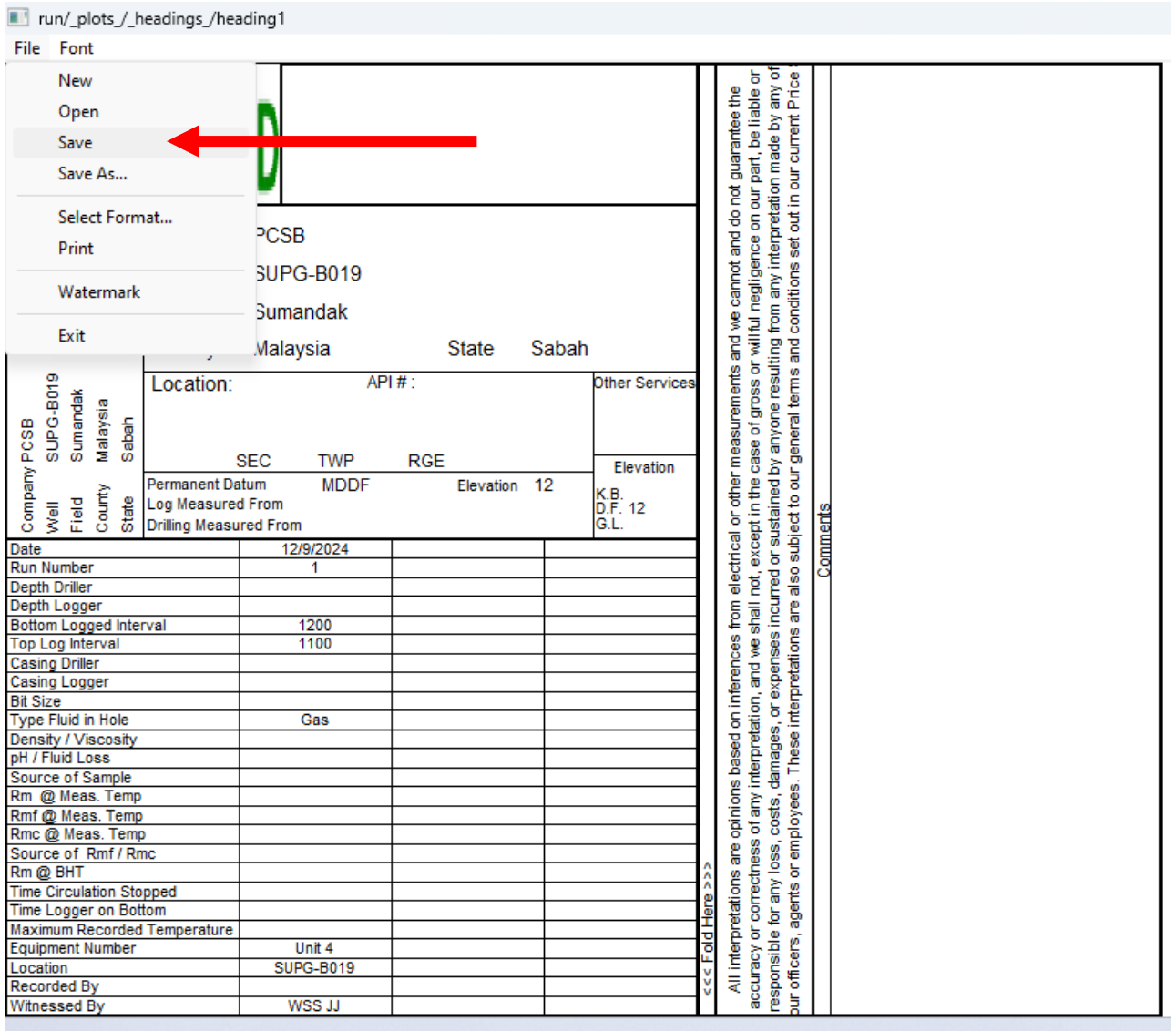
Result =



HOW TO USE

Step 3: Heading

Continue filling up for rest of data.
Once completed, click Save.

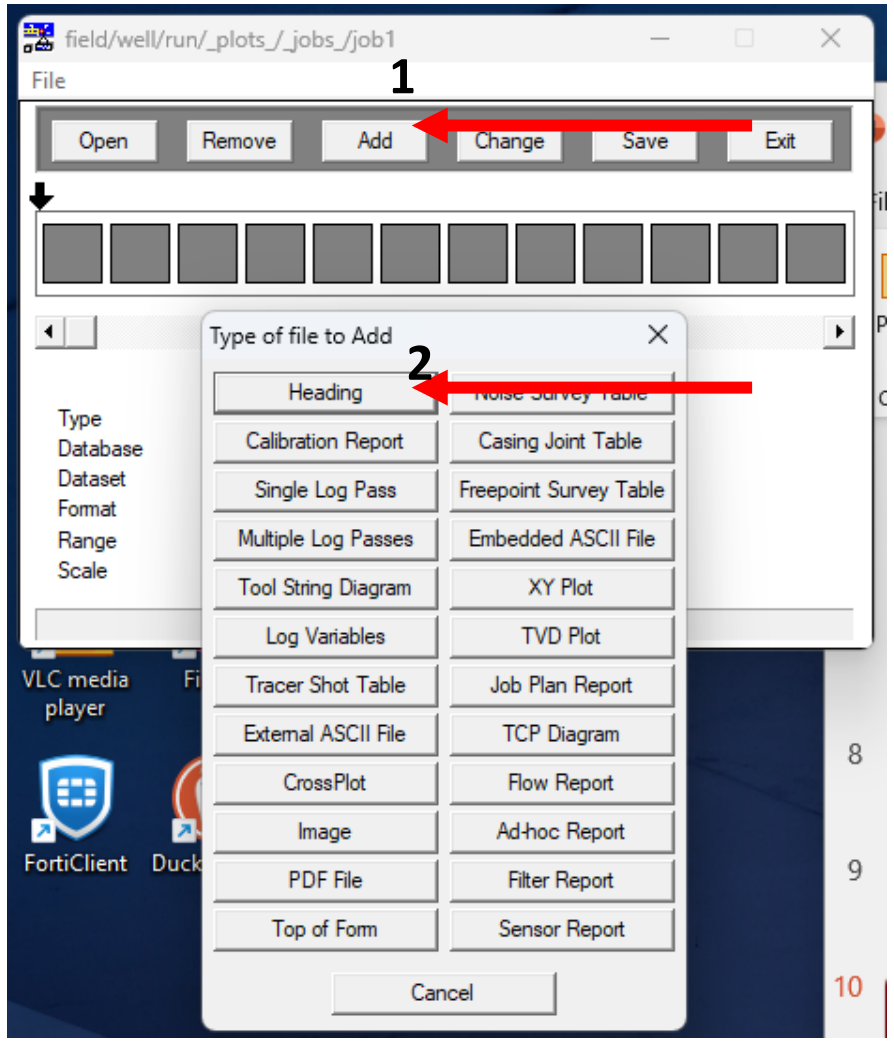


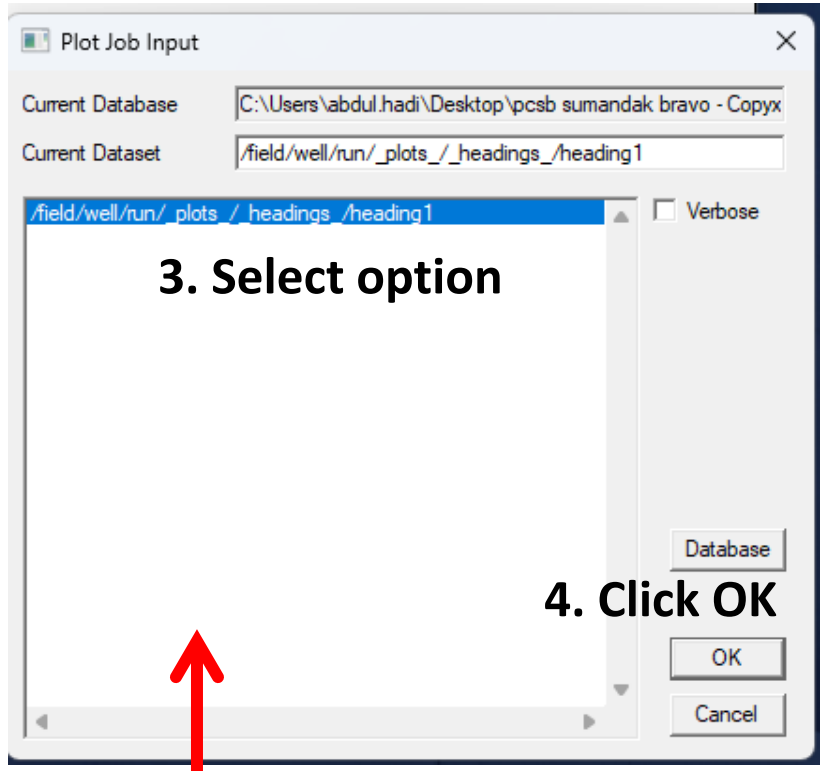
HOW TO USE

Step 3: Heading

At Plot Job Editor, Click Add.

Choose Heading.



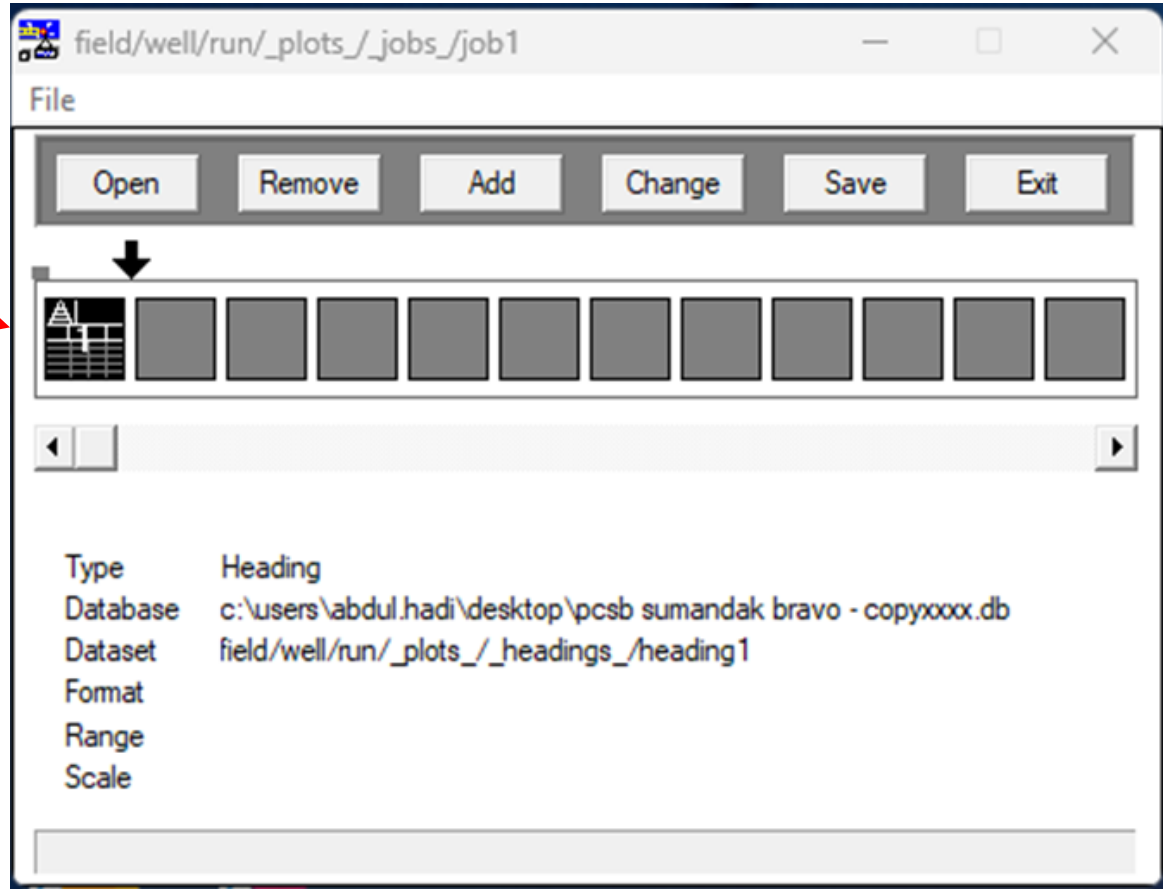


HOW TO USE

- Step 3: Heading

Heading logo present on Plot Job Editor.

Ready for next step.



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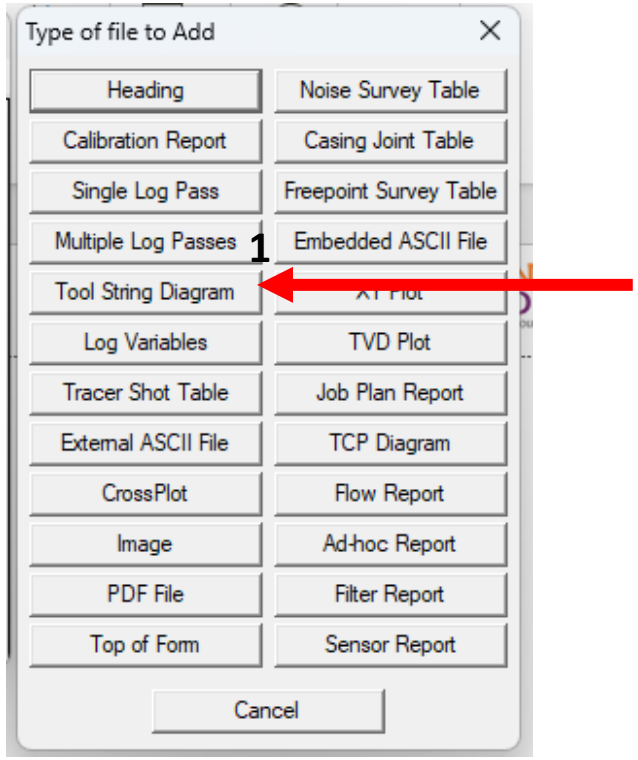
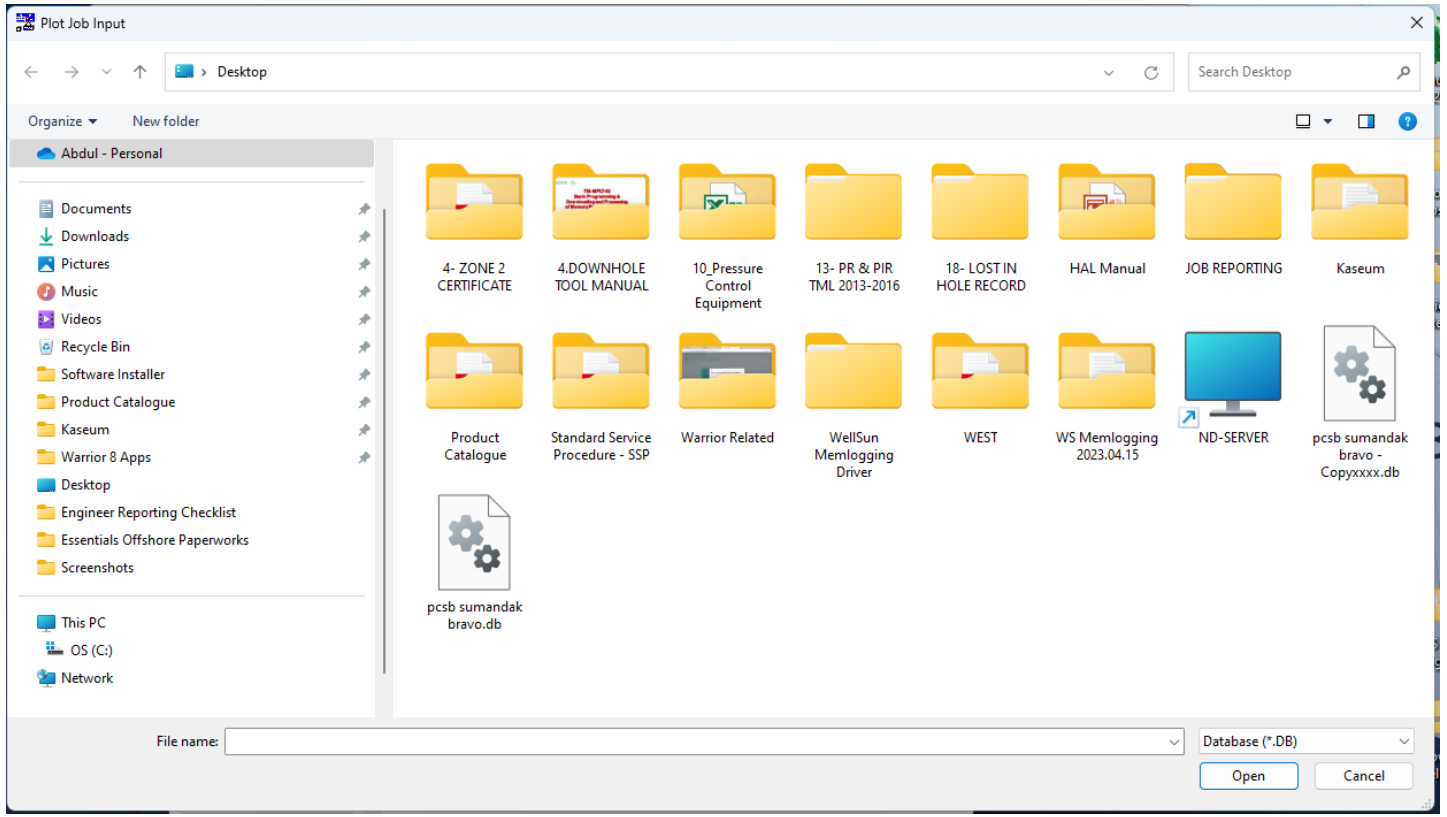
Step 4: Tool Diagram

1. Select Tool Diagram



2. Select your file ('xxxx'.db).



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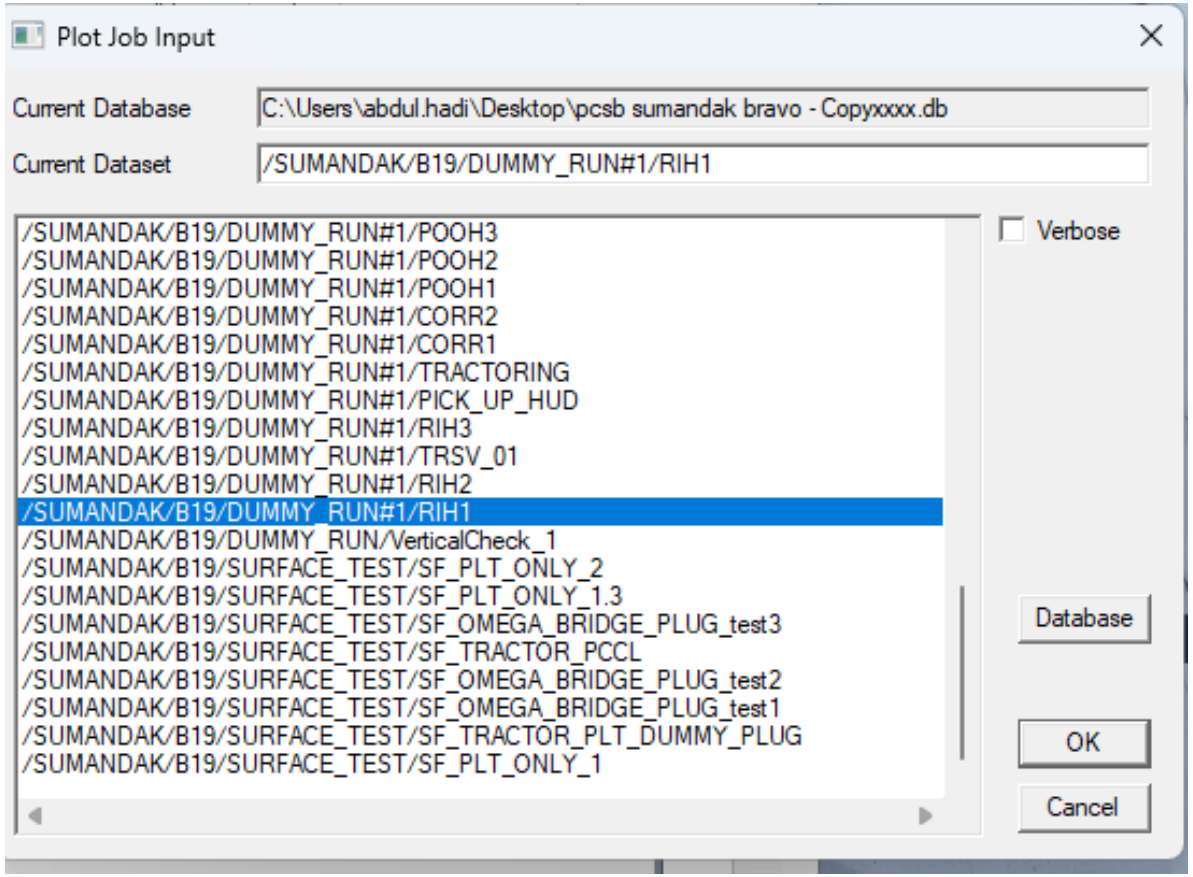
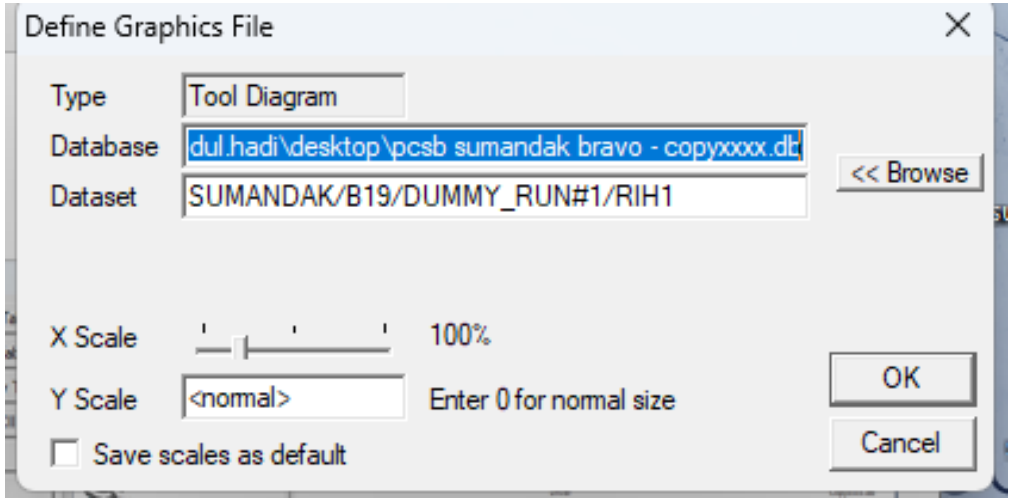
Step 4: Tool Diagram

3. Select your run data.



4. If needed, configure your size of tool diagram with X & Y Scale.
Press OK once completed.



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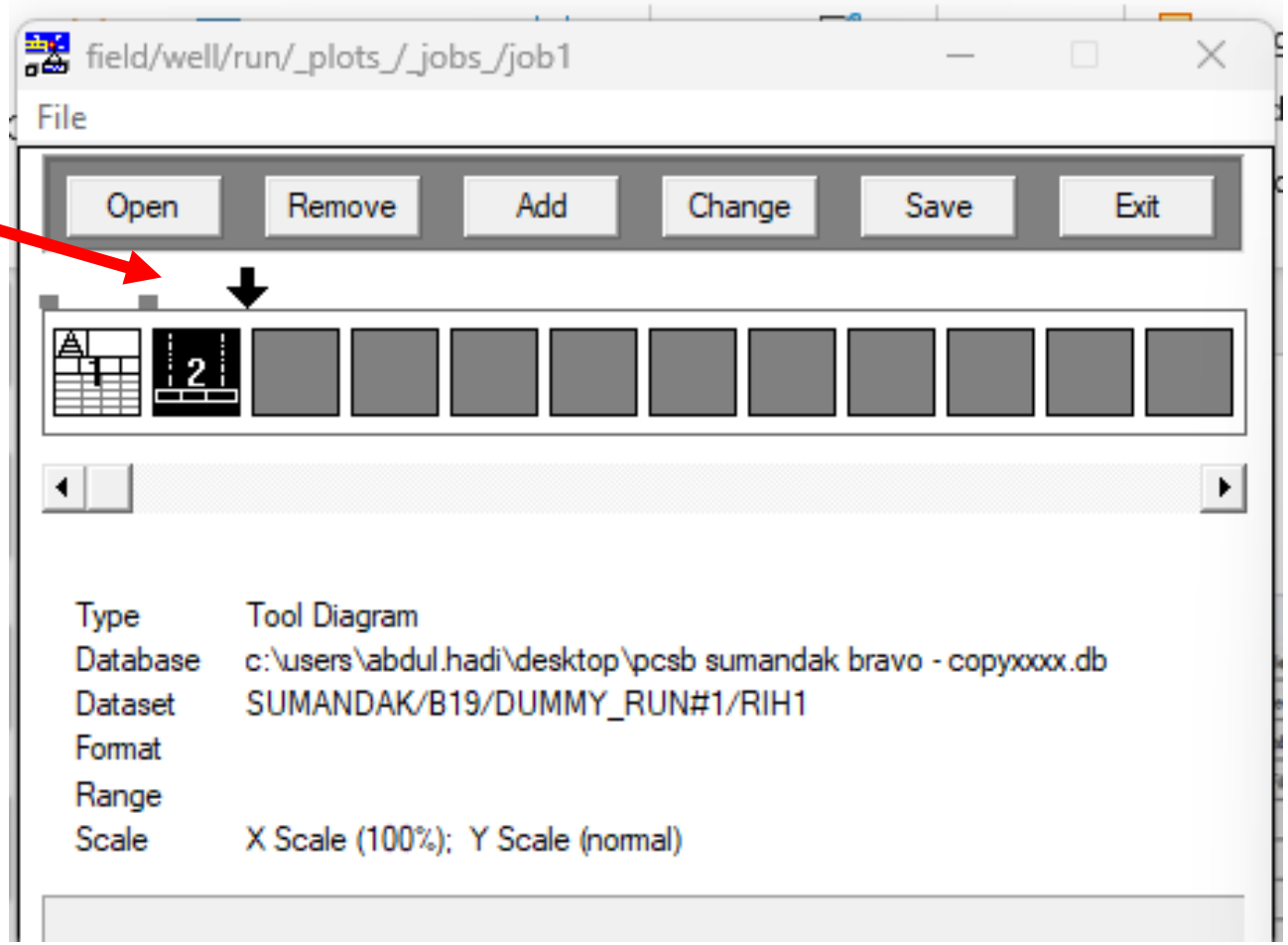
- Step 4: Tool Diagram

Tool Diagram logo present on Plot Job Editor.

Ready for next step.



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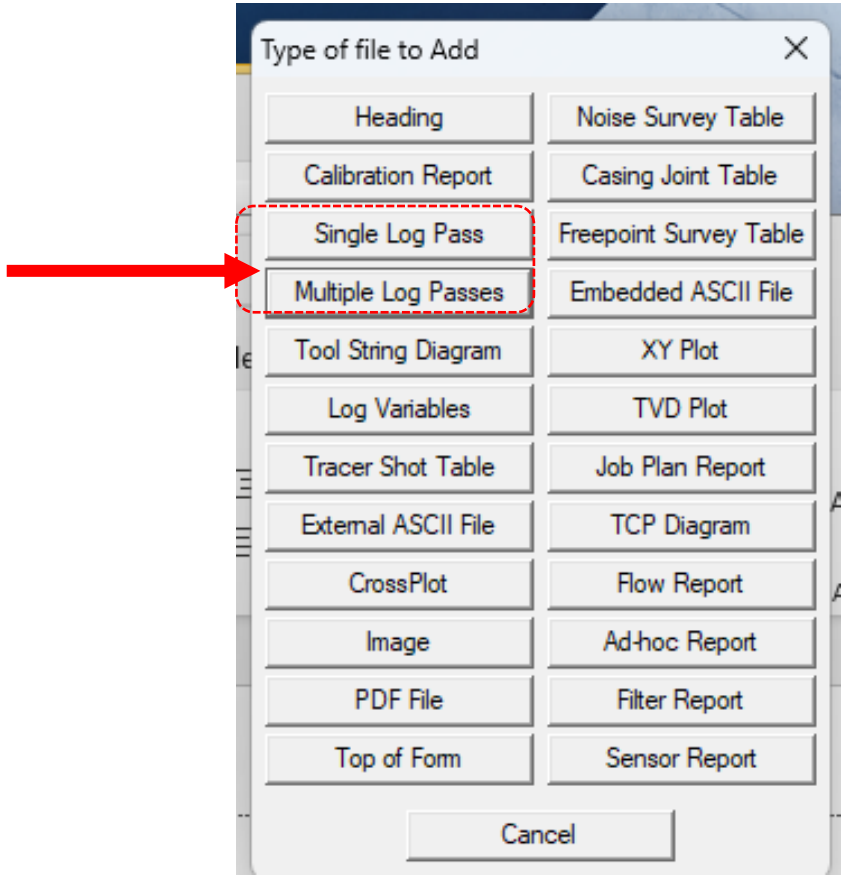
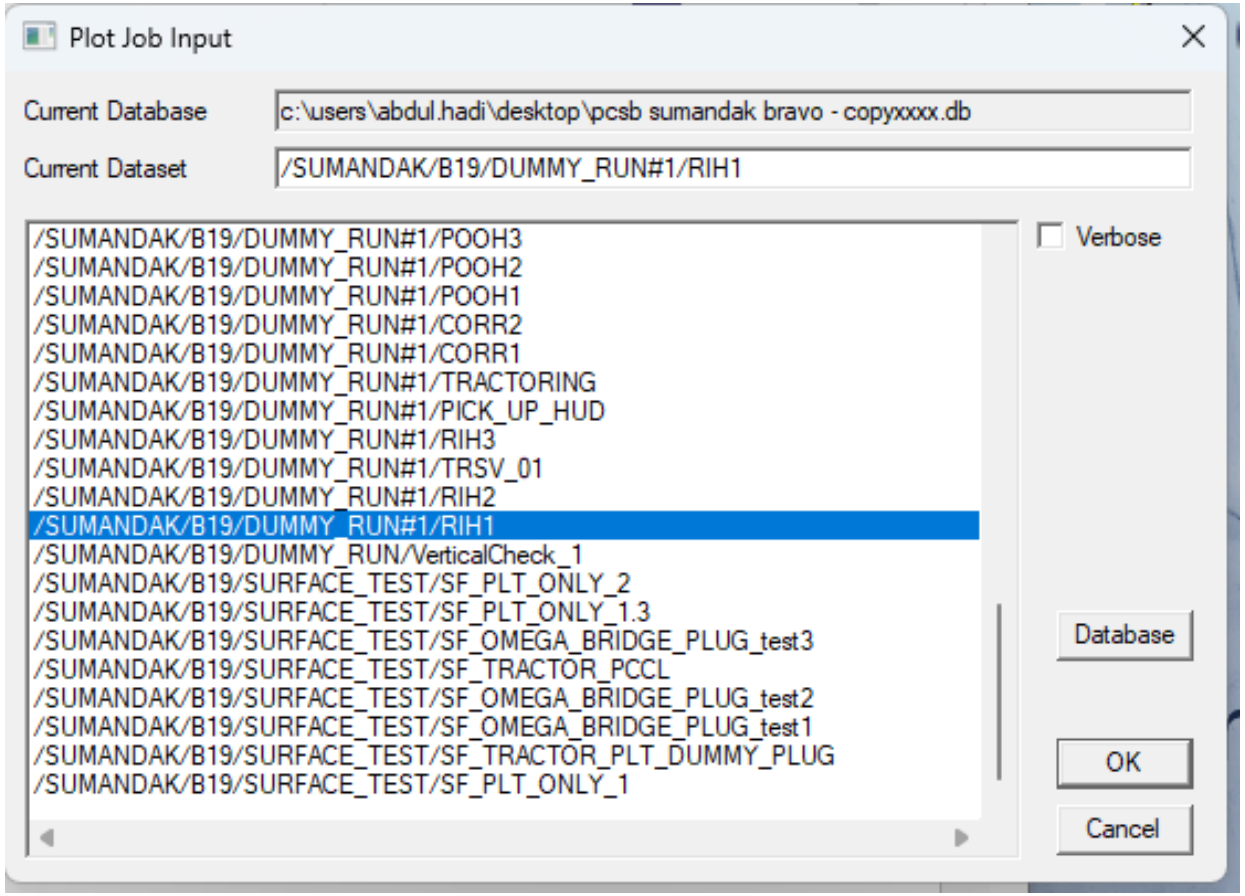
Step 5: Log

1. **Select Single Log Pass for 1 log pass.**
   Select Multiple Log Passes for more than 1 passes.



2. Select your run data.

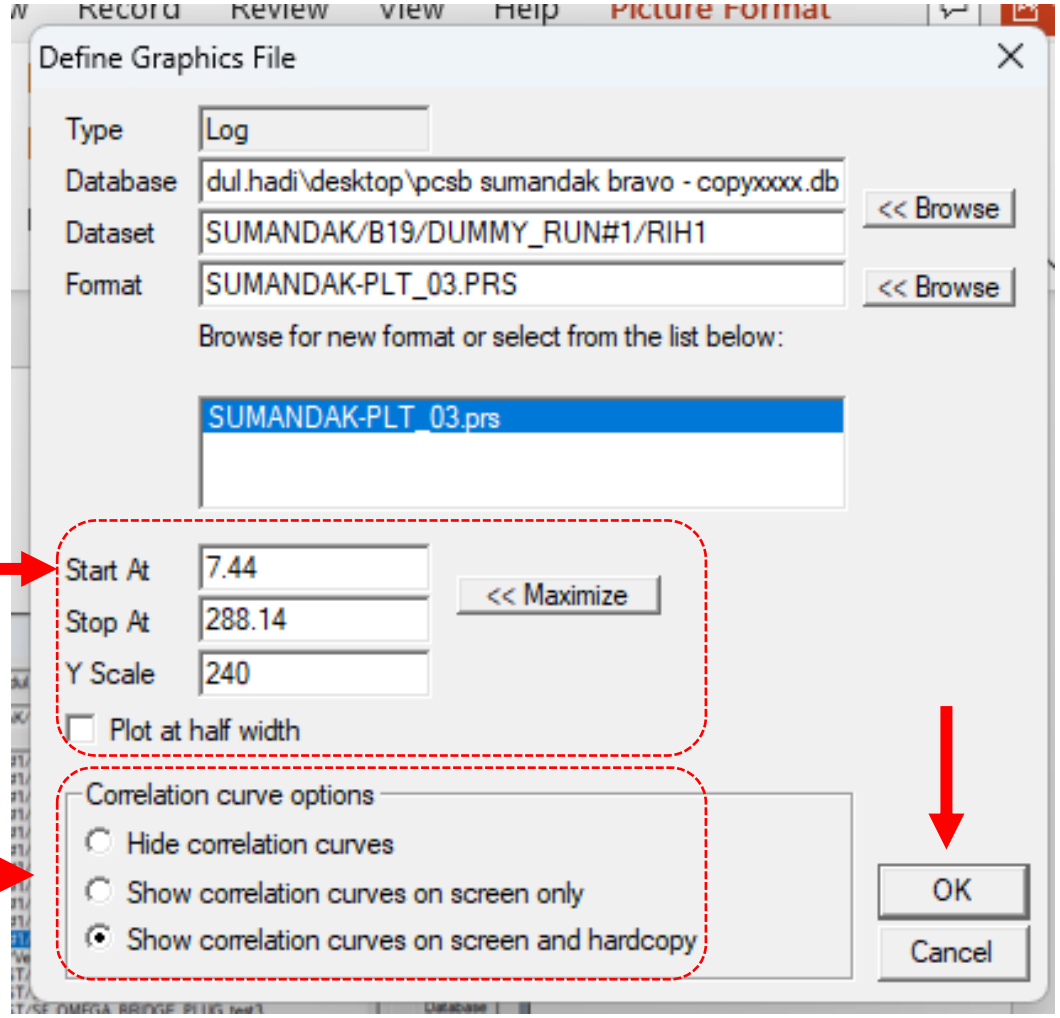


HOW TO USE

- Step 5: Log

If needed, configure your Y Scale & Correlation Curve Options.

Press OK once completed.



Y Scale

Correlation Curve Options

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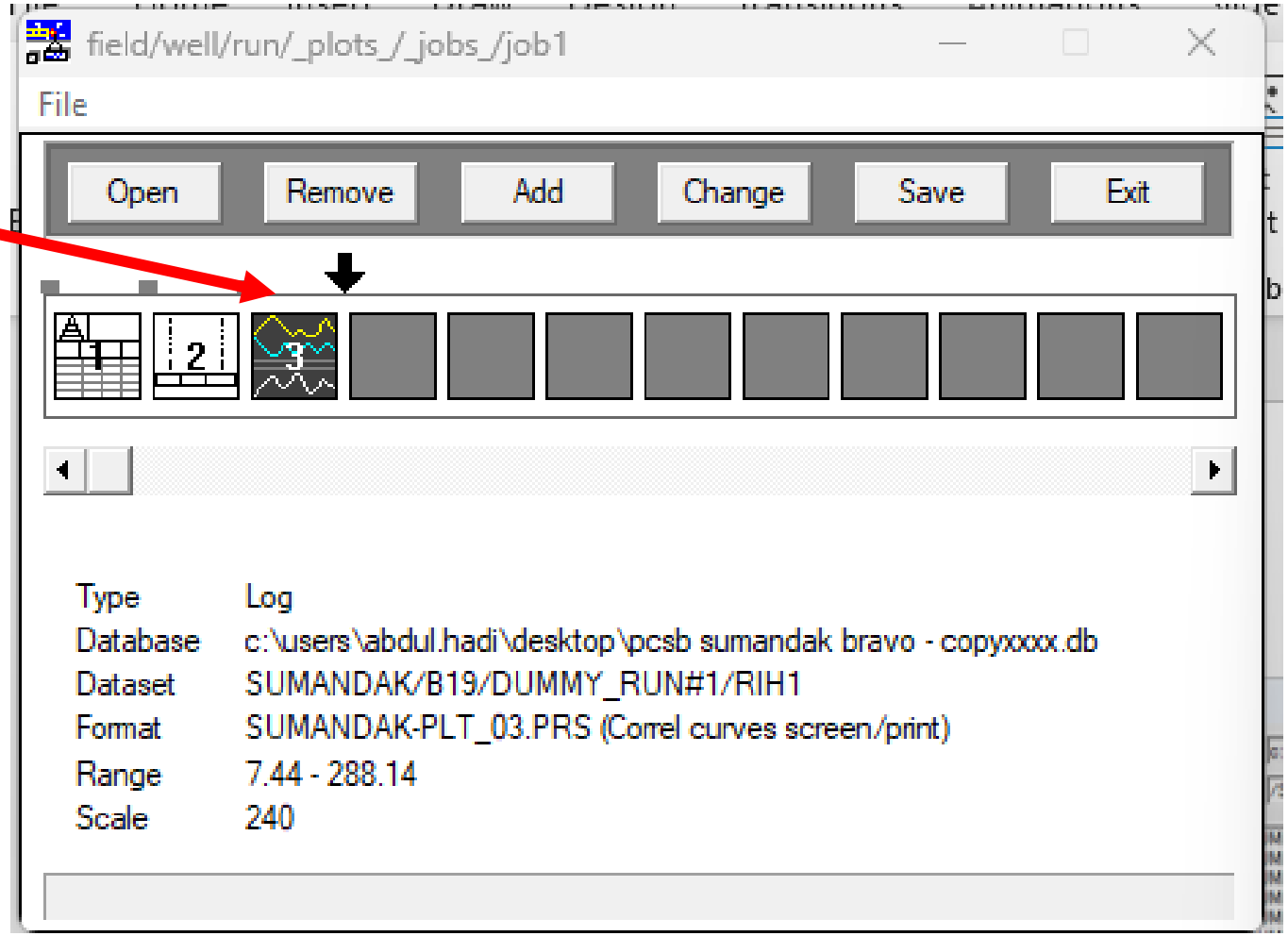
- Step 5: Log

Log logo present on Plot Job Editor.

Ready for next step.



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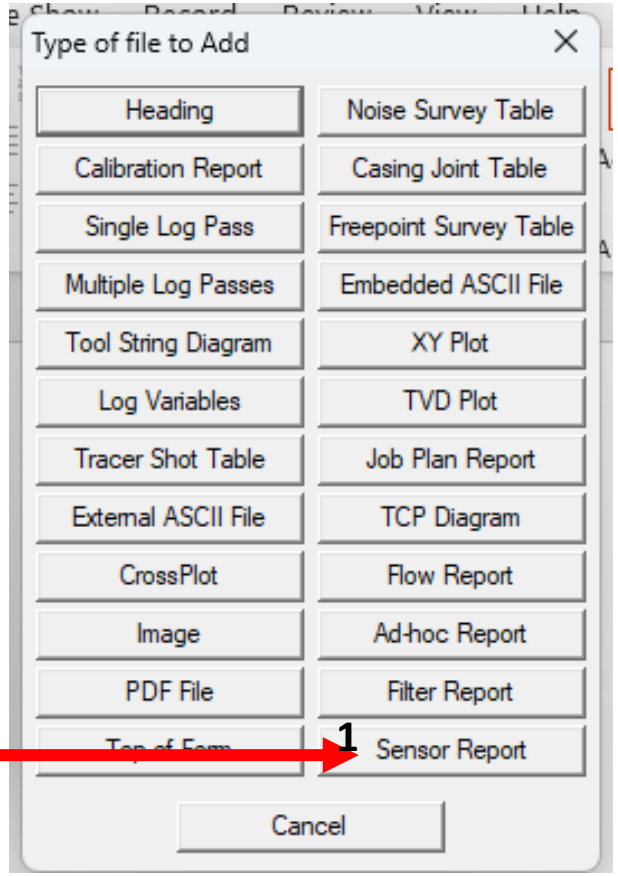
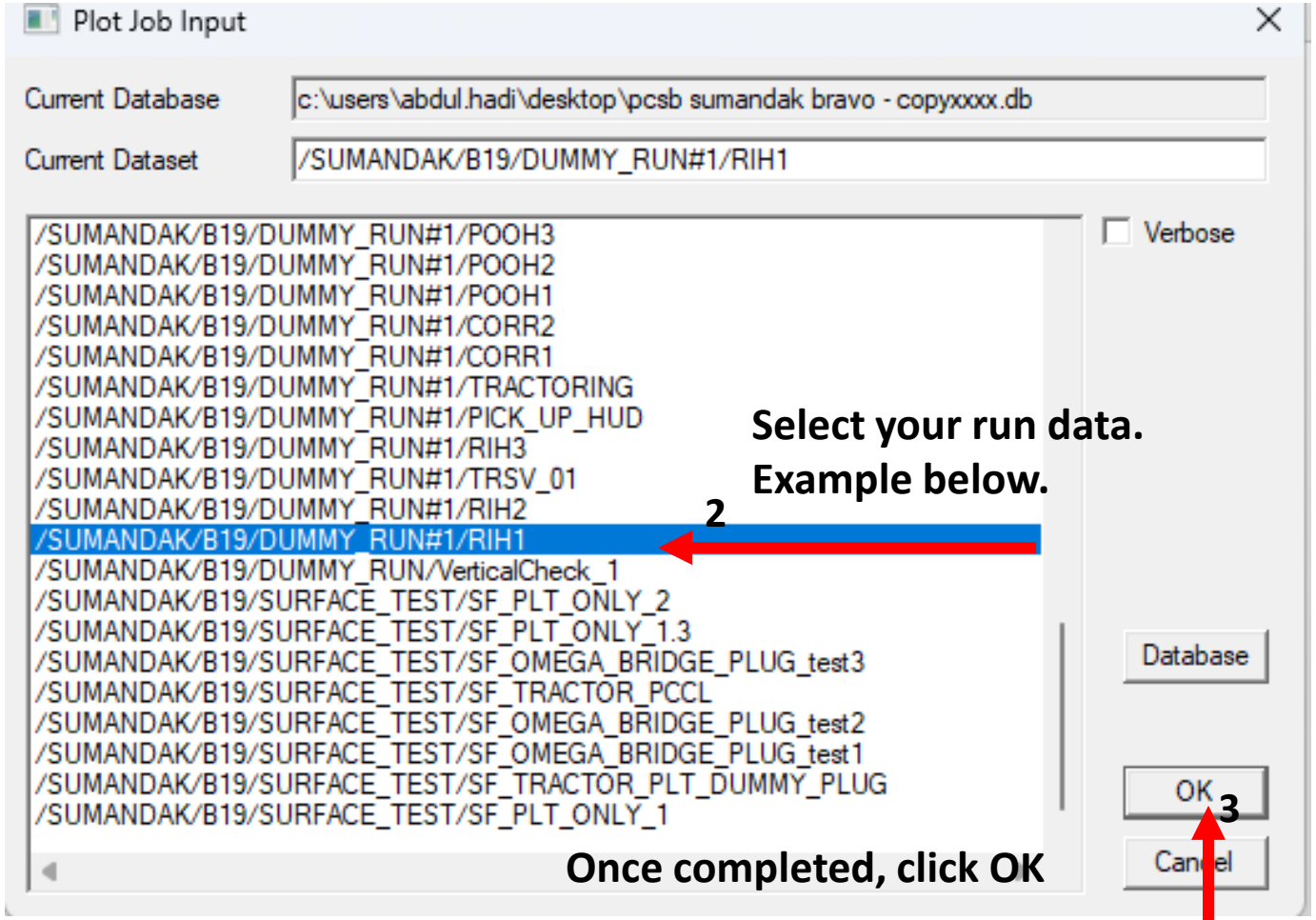
- Step 6: Sensor Report

Select Sensor Report.





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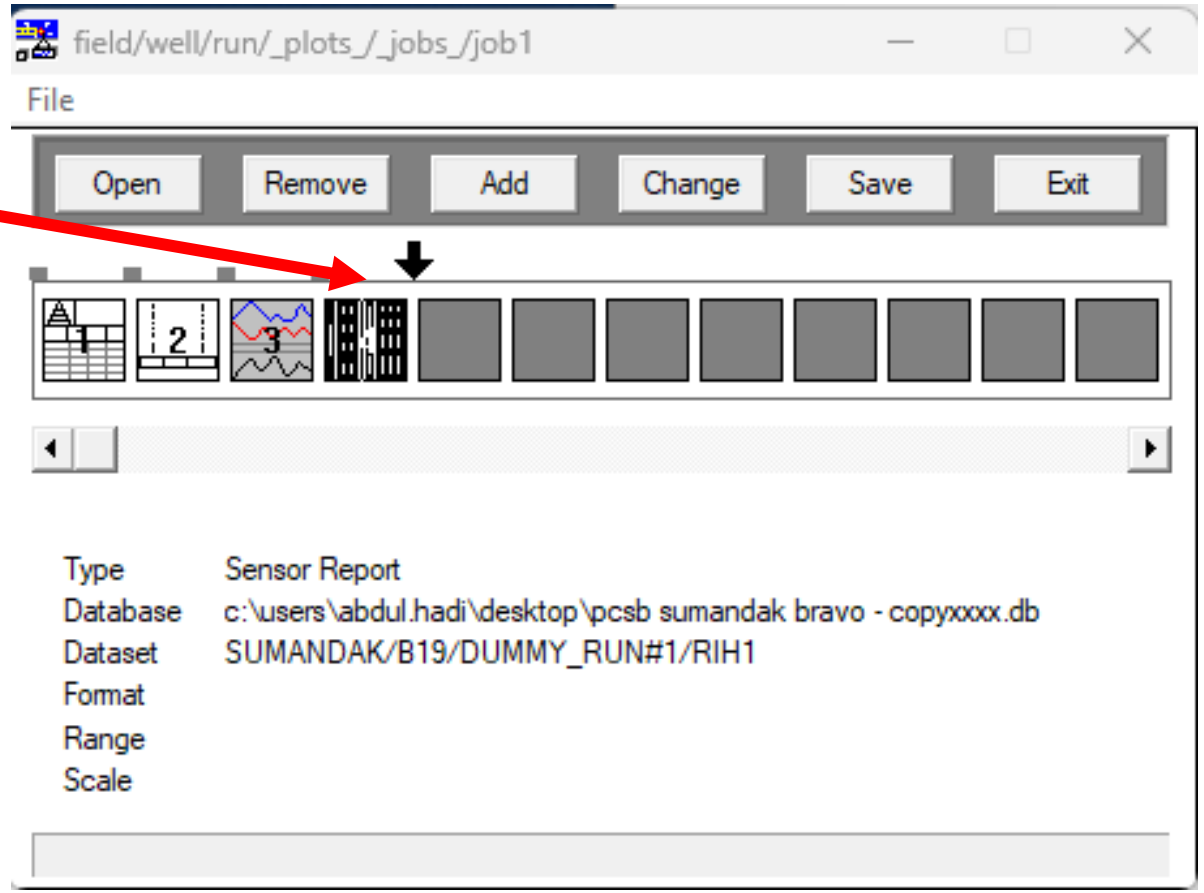
- Step 6: Sensor Report

Sensor Report logo present on Plot Job Editor.

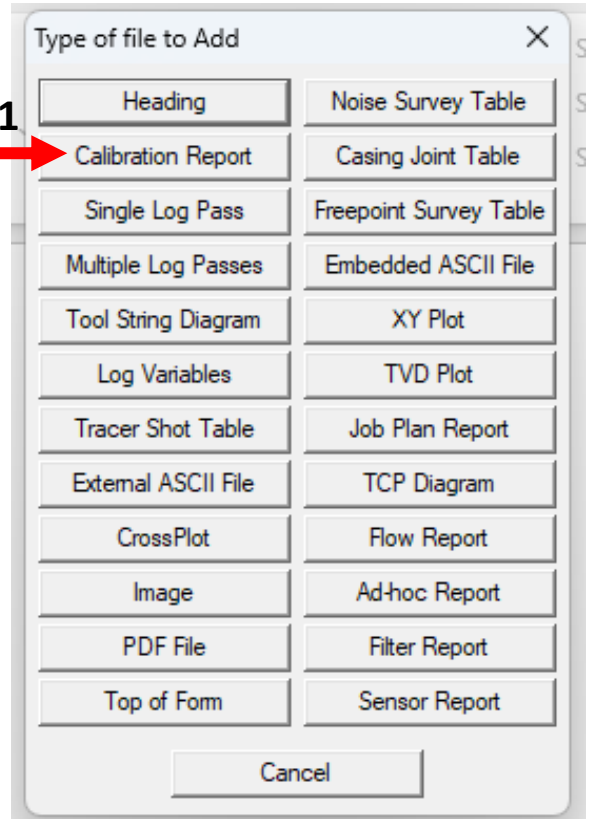
Ready for next step.

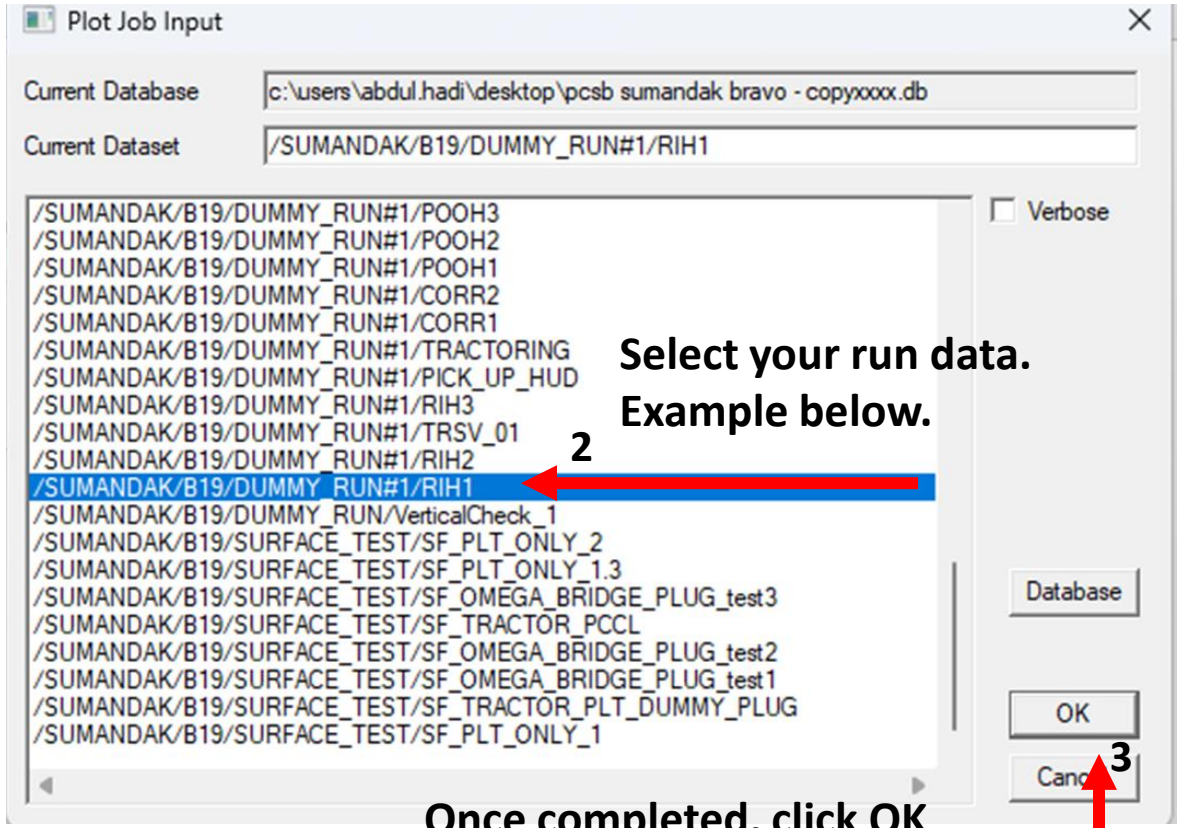


HOW TO USE

Step 7: Calibration Report

Select Calibration Report.





Select your run data. Example below.

Once completed, click OK

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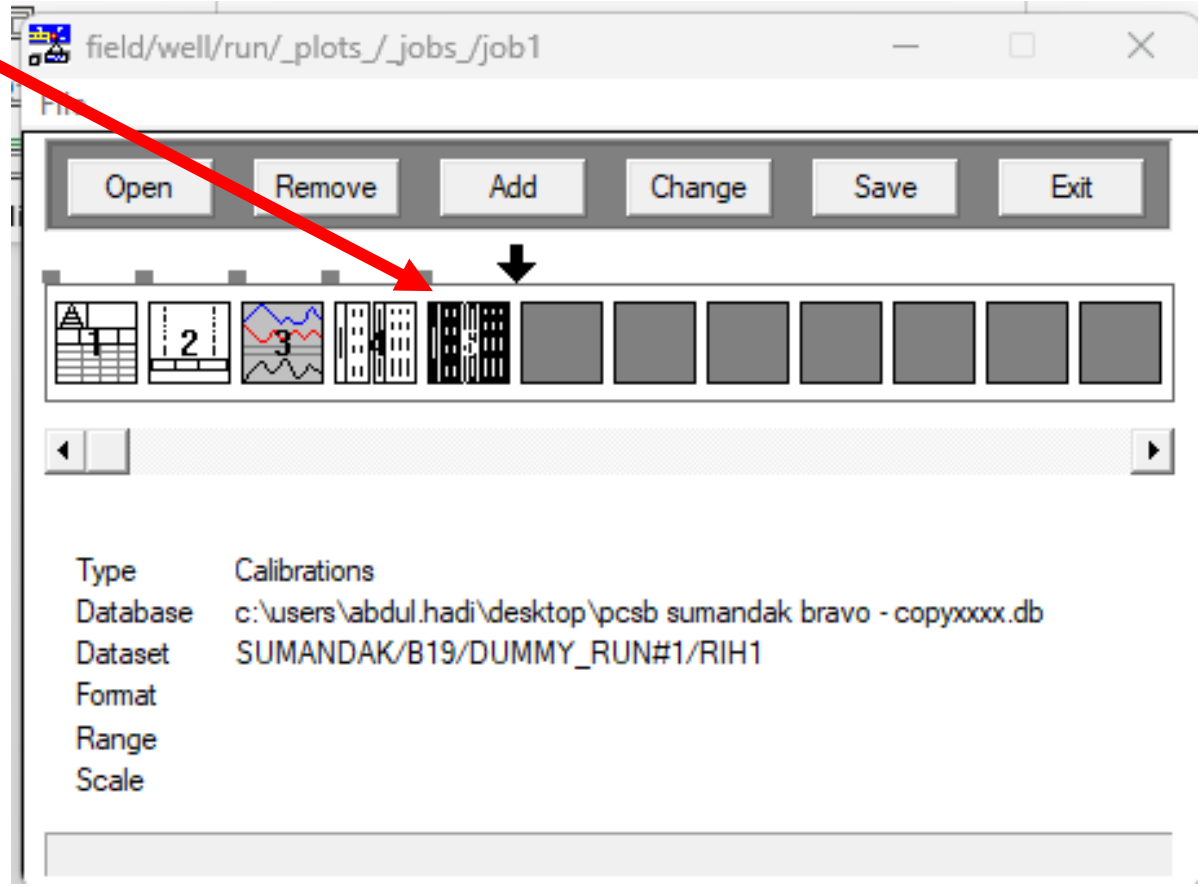
- Step 7: Calibration Report

Calibration Report logo present on Plot Job Editor.

Ready for next step.



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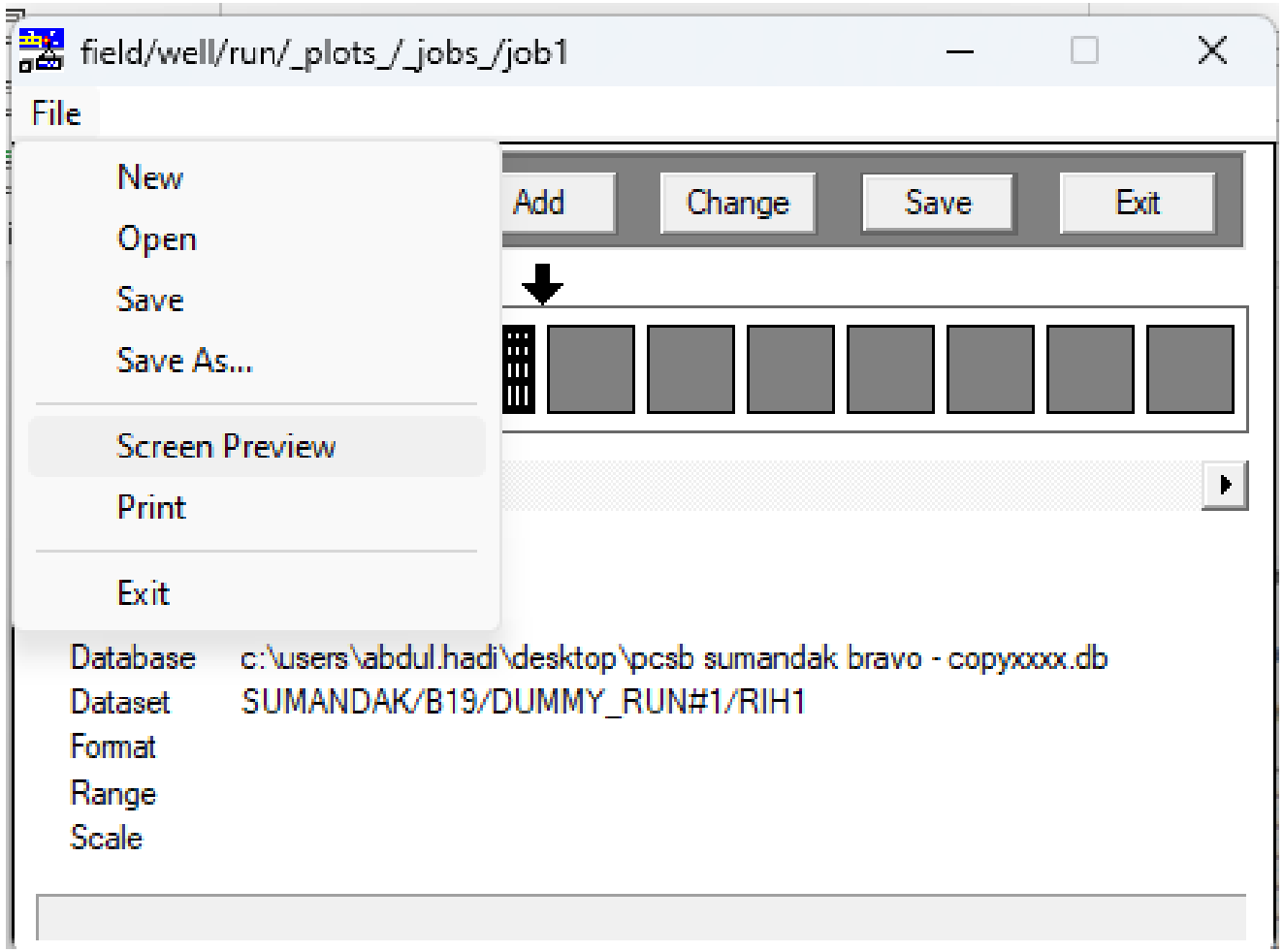
- Step 8: Save & Print

Click Save.

Click Screen Preview for report preview.

Click Print for report in PDF.



CONCLUSION

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- In conclusion, the use of the Plot Job Editor and the integration of plot job information within a well log database significantly enhances the efficiency and accuracy of well log presentations. By allowing operators to systematically assemble and organize the various components of a well log, this process ensures consistent, high-quality graphical outputs. It also facilitates easier management, retrieval, and modification of plot jobs, ultimately streamlining workflows. Additionally, the ability to generate and share graphical outputs across different devices improves flexibility and enhances communication within teams and across different platforms. This approach not only saves time but also reduces the likelihood of errors, contributing to more reliable and professional well log presentations, most importantly to clients.

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Attachment

Plot Job Editor

Sample Logging Report

DIMENSION BID

Company PCSB
Well SUPG-B019
Field Sumandak
County Malaysia State Sabah

Location: API # :

SEC TWP RGE

Other Services

Elevation

Permanent Datum MDDF Elevation 12
Log Measured From
Drilling Measured From

K.B.
D.F. 12
G.L.

Company PCSB
Well SUPG-B019
Field Sumandak
County Malaysia
State Sabah

Date	12/9/2024		
Run Number	1		
Depth Driller			
Depth Logger			
Bottom Logged Interval	1200		
Top Log Interval	1100		
Casing Driller			
Casing Logger			
Bit Size			
Type Fluid in Hole	Gas		
Density / Viscosity			
pH / Fluid Loss			
Source of Sample			
Rm @ Meas. Temp			
Rmf @ Meas. Temp			
Rmc @ Meas. Temp			
Source of Rmf / Rmc			
Rm @ BHT			
Time Circulation Stopped			
Time Logger on Bottom			
Maximum Recorded Temperature			
Equipment Number	Unit 4		
Location	SUPG-B019		
Recorded By			
Witnessed By	WSS JJ		

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Comments

Sensor	Offset (m)	Schematic	Description	Length (m)	O.D. (mm)	Weight (lb
			Cable_Head-1_7/16 Titan 1 7/16" Cable Head	0.31	36.51	3.31
			WELLTEC-TRACTOR Welltec Tractor	8.20	53.97	360.00

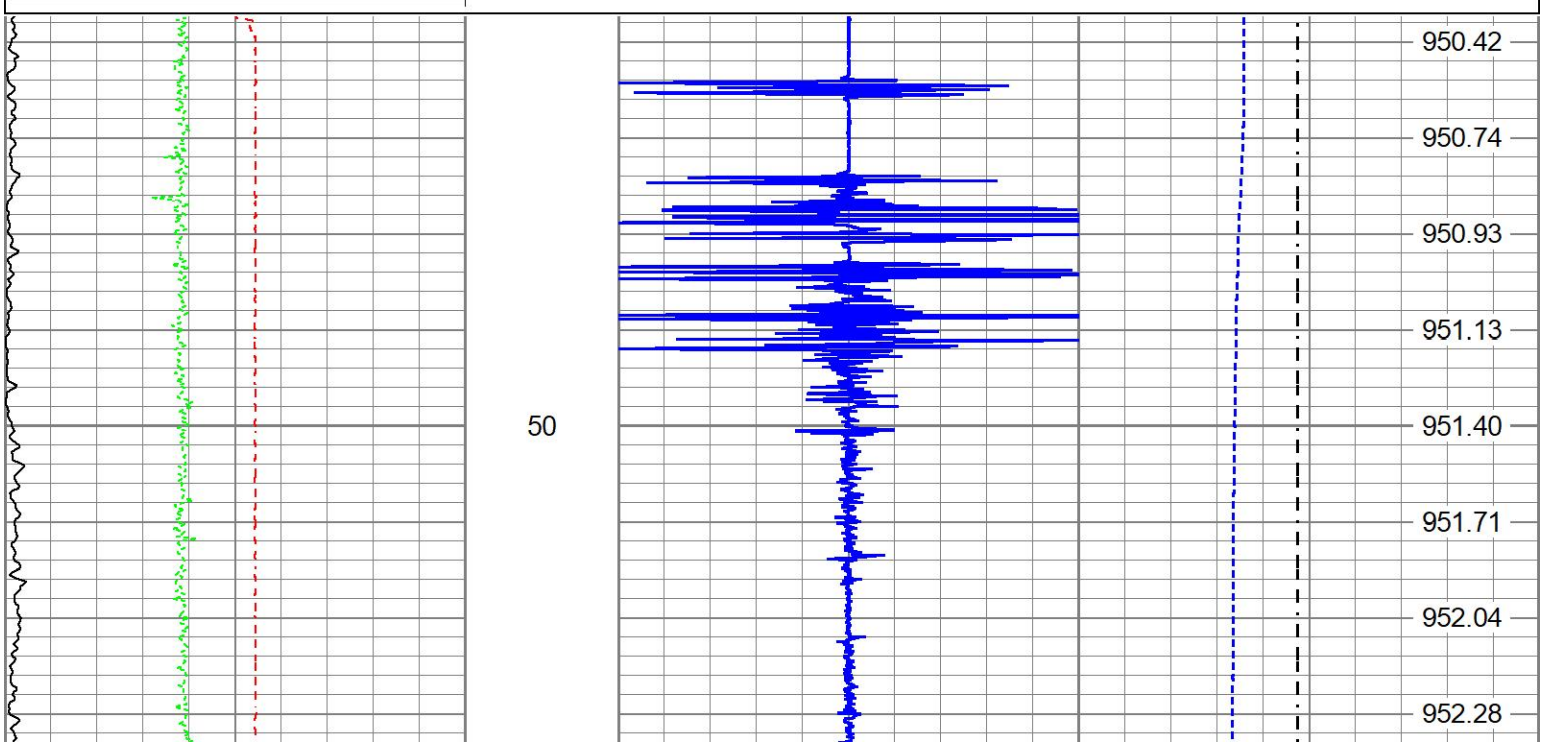
			XTU-002 (10011672) Crossover Ultrawire Toolbus To Ultralink	0.48	42.93	6.50
TEMP	0.89		PRT-010 (010953) Platinum Resistance Thermometer	0.32	42.86	6.00
GR	0.41		PGR-020 (217116) Production Gamma Ray	0.59	42.86	9.50
CCL	0.00		WELL-SUN_QPC-QPC03 (CHS18WS-F014) Quartz Pressure/Casing Collar Locator	0.47	42.86	6.60
QP	0.20		Adapter-GO-SR Adapter 15/16 SR-GO	0.10	42.93	2.00
QTMP	0.20		Adapter-SR-GO Adapter 15/16 SR-GO	0.10	42.93	2.00
			WB-1.69"T 1-11/16" TUNGSTEN WEIGHT BAR	1.52	42.93	60.00
			WB-1.69"T 1-11/16" TUNGSTEN WEIGHT BAR	1.52	42.93	60.00
			DUUMMY OMEGA PLUG-DUMMY OMEGA PLUG DUMMY OMEGA BRIDGE PLUG	2.49	91.69	110.00

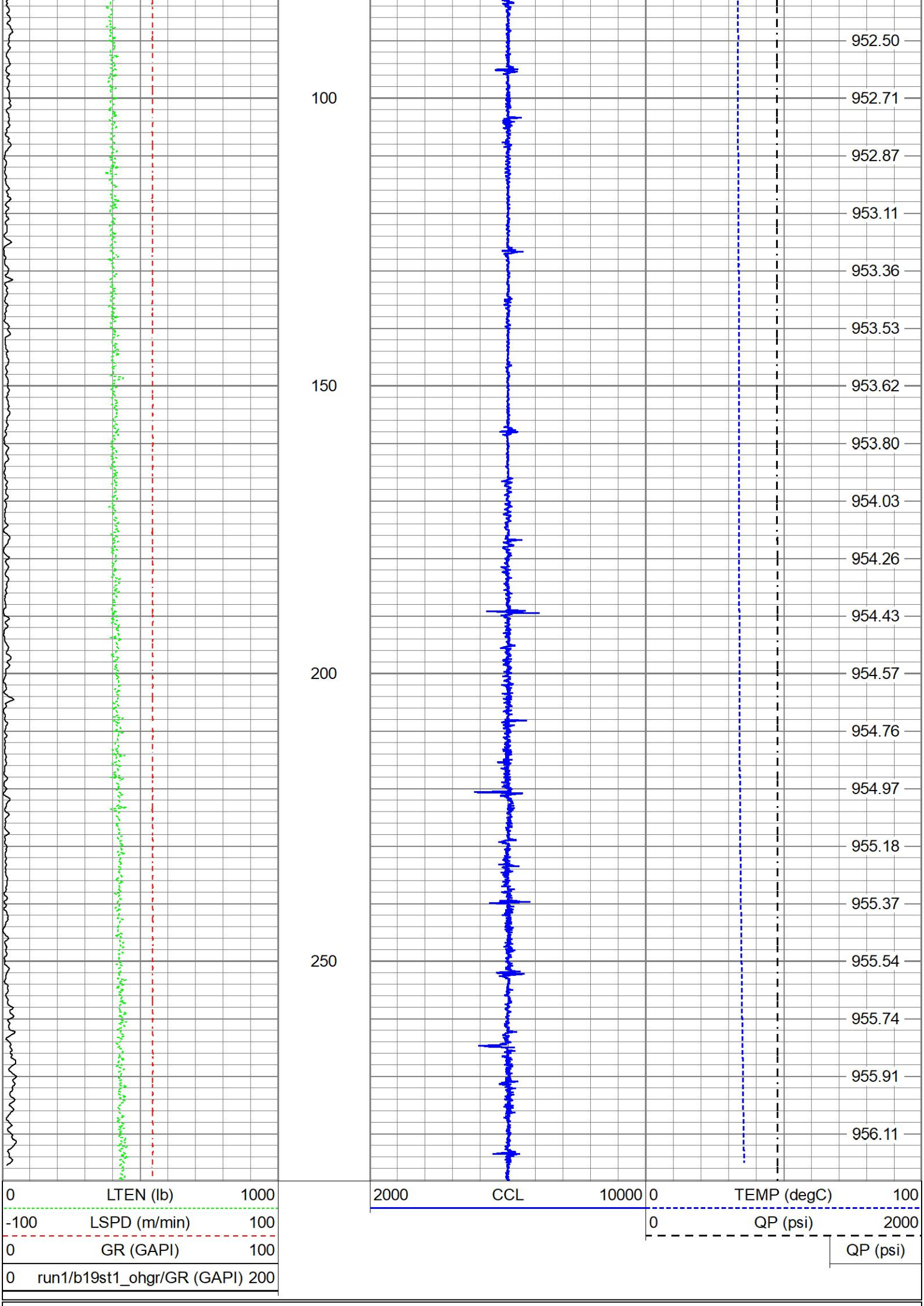
Dataset:	pcsb sumandak bravo - copyxxxx.db: SUMANDAK/B19/DUMMY_RUN#1/RIH1
Total length:	16.11 m
Total weight:	625.91 lb
O.D.:	91.69 mm

DIMENSION BID

Database File	c:\users\abdul.hadi\desktop\pcsb sumandak bravo - copyxxxx.db
Dataset Pathname	SUMANDAK/B19/DUMMY_RUN#1/RIH1
Presentation Format	sumandak-plt_03
Dataset Creation	Wed Oct 02 09:52:44 2024 by Log Sondex
Charted by	Depth in Feet scaled 1:240

0 LTEN (lb) 1000	2000 CCL 10000	0 TEMP (degC) 100
-100 LSPD (m/min) 100		0 QP (psi) 2000
0 GR (GAPI) 100		QP (psi)
0 run1/b19st1_ohgr/GR (GAPI) 200		





DIMENSION BID

Sensor Report

Database File	c:\users\abdul.hadi\desktop\pcsb sumandak bravo - copyxxxx.db
Dataset Pathname	SUMANDAK/B19/DUMMY_RUN#1/RIH1
Dataset Creation	Wed Oct 02 09:52:44 2024 by Log Sondex

Sensor Name	Offset
	(m)
TEMP	0.89
GR	0.41
CCL	0
QTMP	-0.20
QP	-0.20
QTMP	-0.20

Calibration Report

Database File	c:\users\abdul.hadi\desktop\pcsb sumandak bravo - copyxxxx.db
Dataset Pathname	SUMANDAK/B19/DUMMY_RUN#1/RIH1
Dataset Creation	Wed Oct 02 09:52:44 2024 by Log Sondex

Quartz Pressure Sensor Calibration Report

Serial Number:	CHS18WS-F014
Tool Model:	QPC03

Quartzdyne Pressure Gauge

Gauge Model:	SPR112-16-177

Gauge Model: SPB112-16-177
Performed: 27 Aug 2017

	Pressure	Temperature
Order:	3	3
Prescale Algorithm:	1	1
Scaling Factor:	0.01	0.01
Offset Frequency:	18300	58099
Minimum:	13	25
Maximum:	16000	177
Cal Units:	psia	
Span:	1	
Zero:	0	

Coefficients:

A0: 1.275854E+01	A1: -7.595959E-02	A2: -1.983581E-02	A3: 1.049686E-05
B0: 4.323504E+01	B1: -2.155986E-02	B2: 2.674256E-05	B3: -5.617672E-08
C0: -1.900374E-03	C1: 1.272672E-05	C2: -2.168388E-08	C3: 7.094306E-11
D0: 5.685476E-07	D1: -7.268886E-09	D2: 6.814609E-12	D3: -3.643125E-14

Quartzdyne Temperature Gauge

Gauge Model: SPB112-16-177
Performed: 27 Aug 2017

	Pressure	Temperature
Order:	0	3
Prescale Algorithm:	1	1
Scaling Factor:	0.01	0.01
Offset Frequency:	18300	58099
Minimum:	13	25
Maximum:	16000	177
Cal Units:		°C
Span:		1
Zero:		0

Coefficients:

A0: 2.517702E+01	A1: -7.283392E-01	A2: -8.505511E-04	A3: -6.761893E-07

Gamma Ray Calibration Report

Serial Number:	217116	
Tool Model:	020	
Performed:	Sat Sep 28 12:32:12 2024	
Calibrator Value:	357.0	GAPI
Background Reading:	4.6	cps
Calibrator Reading:	1035.0	cps
Sensitivity:	0.3465	GAPI/cps

Temperature Calibration Report

Serial Number: 010953
Tool Model: 010
Performed: Sat Sep 12 00:26:44 2015

Point #	Reading		Reference	
1	11299.00	cps	19.17	degC
2	17643.00	cps	40.48	degC
3	29744.00	cps	80.15	degC
4	41760.00	cps	120.20	degC
5	53466.00	cps	159.77	degC
6	58296.00	cps	179.24	degC
7		cps		degC
8		cps		degC
9		cps		degC
10		cps		degC