



Well Intercept Sub-Committee eBOOK Revision 4 March 2025

Benny Poedjono, Jamie Dorey



Benny Poedjono

Retired SLB, Emeritus, PTE Senior Advisor Wellbore Positioning, Ranging, Interception and Relief Well Operations



Jamie Dorey

Global Ranging Operations Manager, **Scientific Drilling International**

61th

- Revision 4 - Feedback
- Review PMR modelling
- Web Publishing: FlippingBook

WELL INTERCEPT SUB-COMMITTEE

Mission

Actively disseminate the **knowledge sharing** of well-intercept good practices for the **industries** and **academia**.

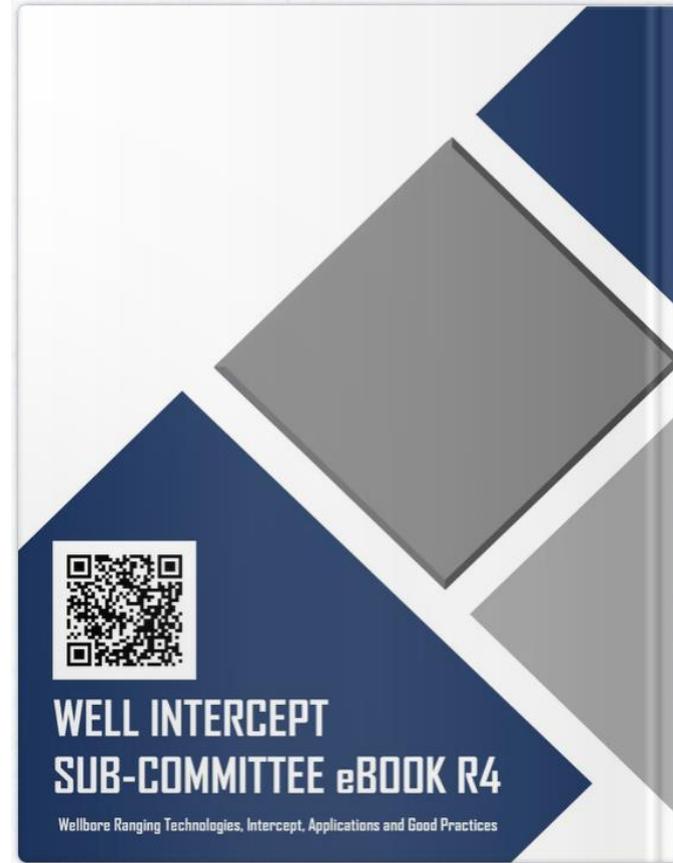
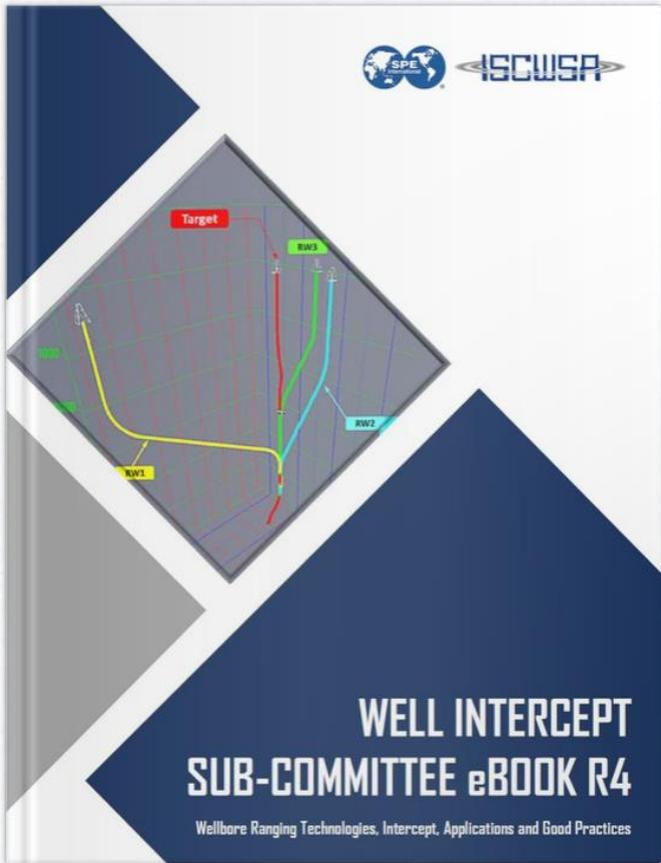


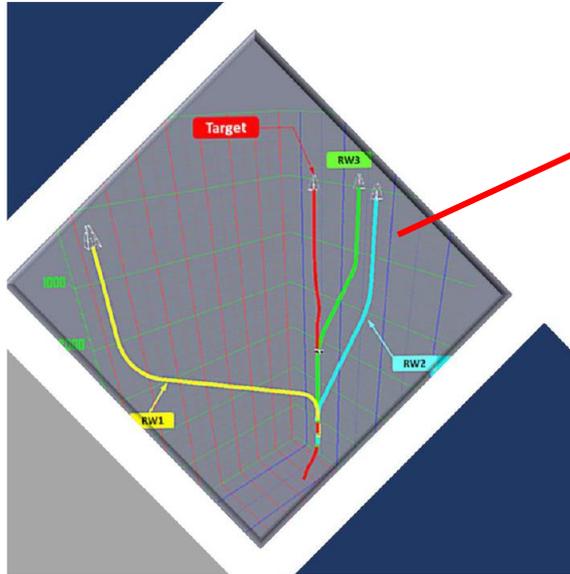


Review Objectives

- Ensure comprehensibility. The document is based on American English and other English dialects (ex: written by non-native speaker)
- Graphics must complement the text and help understanding of the subject.
- Naming **WISC “eBOOK”**

WISC eBook Rev 4 – Front and Back





On the cover: Graphic illustrates a plan to intercept and control a target well (red) with two Relief Wells (yellow and blue). The plan for a third Relief Well (green) is included as a contingency well should the need arise.

All comments on this eBook, submissions or amendments should be directed to:

Benny Poedjono (poedjono1@outlook.com) and Jamie Dorey (jamie.dorey@scientificdrilling.com)

Acknowledgements

Fourth revision team;

Adam Donald, AnaS Sikal, Arash Haghshenas, Asbjørn L. Johansen, Benjamin Nobbs, Benny Poedjono, Brett Van Steenwyk, Clinton Moss, Dan Eby, Denis Reynaud, Diago Salim, Fabien Momot, Georgy Rassadkin, Harald Bolt, Jamie Dorey, John Hatteberg, Jordan Timbs, Ludovic Macresy, Luis Felipe Gonzalez, Mahmoud ElGizawy, Nicholas Zachman, Rick Von Flatten, Ted Hebert.

Fourth revision company contributors; BHPC, BOOTS and COOTS, CUDD, DwpD, GUNNAR, HALLIBURTON, PathControl, SLB, Scientific Drilling and WELLCTRL

Technical Editors

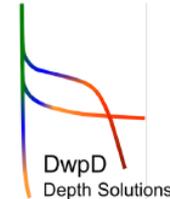
Benny Poedjono and Rick Von Flatten

Graphics

Benjamin Nobbs and Benny Poedjono

Contributors

This WISC eBook wouldn't be possible without companies' contribution willingness to release their knowledge, lessons learned, good practices, and proprietary documents. Thanks to the organization and members for their time and funding to bring all this knowledge together into one- publication for the industry and academia without restriction.



1. Incorporate Version 3 feedbacks – 99%
 - [Diagram updates – more clarity and better text.](#)
2. Surface Intervention – 100%
 - [As an Appendix](#)
3. Active Acoustic Ranging – 99%
 - [General Principle, Applications, Automated Processing and Multiple Offset Environment.](#)
4. Passive Magnetic Ranging – 50% (expanded)
 - [Section 2.8, PMR 3D Processing Technique](#)
 - [PMR Processing](#)
5. Multiple Ranging Technologies application – 99%
 - [Update and new](#)
6. Ranging Technology Summary Table – 99%
 - [Updated, add ARR](#)
7. Ranging Conveyance – 99%
 - [Drill Pipe, Coil Tubing and Wireline](#)

8. Introduction – 99%
 - Section 1.6.10, Advanced Geothermal System
9. Digitalization: Key to streamline the data sharing, collaboration and decision making process – 99%
 - Section 8.1.3, Digitalization
10. Planning Phase – 50% (expanded)
 - Section 8.4.1.6, Managing 3D Positional Uncertainty (Replaced old Figure 82)
 - PMR Planning
11. eBook comprehensibility from beginning to the end – 99%
 - American English and other English dialects (ex: written by non-native speaker)
12. eBook graphics – 90%
 - Complement the text and help understanding of the subject
13. Adding AMR Rotating Magnet
 - Gunnar and ErdosMiller to propose

WISC eBook R4 – Budget vs Spending



Proposal for eBook Revision 4 writer

SPE Wellbore Positioning Technical Section

Presented on January 22, 2024

Introduction

The following is a proposal from Rick Von Flatern, 507 Mountain View Drive, Horseshoe Bay, Texas 78765 to the SPE Wellbore Positioning Technical Section to act as writer and editor of revision 4 of the Well Intercept Sub-Committee (WISC) eBook.

Scope of Work

As writer/editor, Rick Von Flatern, will review and edit all material submitted by volunteer SME (subject matter experts) for writing, and consistent style and language throughout the *WISC eBooks Revision 4*.

The writer will also be available to advise SMEs and the team on content creation and attend in-person meetings when deemed necessary by the team leader.

The works divided into 2 Phases; Phase#1 and Phase#2 with the details are outlined in the cost estimate. The estimated hours are for the budgetary purpose only, it could be shorter, however the team should maintain within the allocated budget.

Deliverables

The following breakdown specifies those sections of text for which the writer is responsible along with the estimated hours and charges for same. The writer will correct text, including for graphics, for grammar, syntax, spelling, clarity, etc. to ensure creation of a publishable-quality product.

In addition, reasonable other expenses; travel and outsource services (graphics), as per agreement of the team leader, will be billed to the project when applicable.

WISC eBook Revision 4 - Technical Writer Cost Estimate

No.	Chapter	Description	Hourly Cost (\$)	Estimate (Hrs.)	Cost Estimate (\$)
1		Version 3 Feedbacks	\$ 110.00		
	3.2.5.1	To add wireline cable specifications		2	\$ 220.00
	7.2.1	Rewrite. Make generic measured point distance to bit			
	7.2.2	Rewrite. Make generic measured point distance to bit			
8		Figure 82 and explanation. Rewrite			
	1.2	Change to 3D Wellbore Positioning			
	8	Change, adding 3D Wellbore Positioning details			
	9.4.1	Add U-Tube details			
1a		Workshop/Conference Call			
2		New Addition			
	Appendix	Surface Intervention			
2a		Workshop/Conference Call			
3		New Addition/Update			
	1.3	Acoustic Ranging			
	5	Acoustic Ranging			
3a		Workshop/Conference Call			
4		New Addition/Update			
	2.6	Passive Magnetic Ranging processing utilize 3D Distribution Technique		12	\$ 1,320.00
4a		Workshop/Conference Call		8	\$ 880.00
5		New Addition			
	1.5	Advanced Geothermal System		2	\$ 220.00
	1.6.10	Details of Advanced Geothermal System		22	\$ 2,420.00
5a		Workshop/Conference Call		14	\$ 1,540.00
Total Phase #2				58	\$ 6,380.00
Total Phases				148	\$ 16,280.00

- Draft Completed
- New PMR modelling
- One-year FlippingBook
- Below budget, spending ≈ \$ 15,000.00 (12,650)
- **Saving**
 - Inhouse graphics and technical editor then **Technical Writer**
 - Sponsorship
 1. Face-to-face collaboration

WISC eBook R4 – Draft Publishing



**WELL INTERCEPT
SUB-COMMITTEE eBook R4**

Wellbore Ranging Technologies, Intercept, Applications and Good Practices

