



Operator's Wellbore Survey Group

ISCWSA OWSG Sub-Committee Report

API RP 78 WELLBORE POSITIONING



Agenda

- OWSG Report
 - Mission & Introduction
 - Anti-Trust
 - Recent Meetings
 - Meeting Topics in 2022
 - Focus Areas
- RP-78 Update
- Q&A



Operator's Wellbore Survey Group

Mission: To promote practices that provide confidence that reported wellbore positions are within their stated uncertainty.

- OWSG Founded in 2012
- Sub-Committee Chair - Jonathan Lightfoot (Oxy)
- Schedule – 6 Meetings a year (Every other Month)
- 2022 Meetings: Jan 25, Mar 29, June 13, Aug 09, Sept 28
- Upcoming Meeting: Nov 22 (Houston Pot-Luck Lunch) – In Person



Anti-Trust Statement

We are meeting to help develop and promote good practices in wellbore surveying necessary to support wellbore construction which enhance safety and competition.

The meeting will be conducted in compliance with all laws including the antitrust laws, both state and federal. We will not discuss prices paid to suppliers or charged to customers nor will we endorse or disparage vendors or goods or services, divide markets, or discuss with whom we will or will not do business, nor other specific commercial terms, because these are matters for each company or individual to independently evaluate and determine.



Meetings

- Microsoft Teams – Virtual Meetings
- Fourth Tuesday of every other Month
- 2023 Schedule: Jan 24, Mar 28, May 23, July 25, Sept 26 & November 28
- Time: 8 am – 10:30 am Central Standard Time (US – Houston Time)
- Core Membership – Exploration & Production Operators
- Meetings are open to all Major, Medium, Small, Independent & National Oil and Gas Production Companies and Service Providers
- No membership fees or dues required, Free to participate
- 3-4 Planned Collaboration Discussions and/or Presentations Each Meeting
- Discussions geared towards Operator Issues and Practices



Recent Attendees

- September 28, 2022
- 25 Total
- 16 Operators
- 9 Non-Op Guests

Name	Operator Affiliation	Guest Name	Affiliation
Jonathan Lightfoot	Oxy	Philip Gurden	Gurden Technical Consultancy
Pete Clark	Chevron	Tim Paton	Superior QC
Dalis Deliu	ConocoPhillips	Mike Calkins	Three Sigma Well Design, LLC
Frank Gao	Oxy	David Gutierrez	Superior QC
Tatiana Gobert	Oxy	Chad Hanak	Superior QC
Ryan Carlson	XTO (ExxonMobil)	Marc Willerth	HP Tech
Juan Sierra	Oxy	Jerry Codling	Halliburton
Matt Weber	Shell	Adrian Ledroz	Gyrodata
Bill Allen	Bp	Philip Harbidge	Path Control
David Baker	ConocoPhillips		
Juan Jose Exposito	CEPSA EP SA		
Heather Vannoy	EOG Resources		
Nicholas Robertson	Bp		
Matt Weber	Shell		
Will Tank	Oxy		
Petter Kvandal	Akerbp		



OWSG Meeting Topics in 2022

- API RP-78 – Will Tank
- Power BI Well Placement Dashboard - Nicholas Robertson (bp)
- Independent Advanced Magnetic Survey Correction Verification & Evaluation Workflow – Chad Hanak (Superior QC) & Phil Gurden (Gurden Technical Consultancy)
- Practical Solutions for Everyday Purvey Issues – Permian Basin Case Study – Dalis Deliu (ConocoPhillips)
- Drillbotics Introduction – Fred Florence
- IOGP P7 Adoption Discussion
- Wellbore Quality Metrics – The Precision Placement Value Proposition
- MWD Sensor Calibration & Lab Standards
- Advanced Trajectory Design with Bezier Curves – Ali Karimi (Oxy)
- Intro to Sustained Inclination & the Measure of Lateral Straightness – Pete Clark (Chevron)
- Review Upcoming Events



Focus Areas

- Operational Practices
- Realtime Drilling Automation
- Management of Change & Safe Separation
- Human Factors
- Industry Collaboration
- Feedback to ISCWSA Sub-Committees - Operator Challenges & Needs
- Consistent Approach for Wellbore Trajectory Related Quality Metrics
- Outreach to Geothermal, Carbon Sequestration, HDD (Trenchless) & Mining Associations, Groups & Technical Sections
- Academic Support (Student Engagement such as SPE Student Chapters & Drillbotics)



RP-78 Wellbore Positioning

Will Tank (Oxy) – Chair

Jonathan Lightfoot (Oxy) – Vice-Chair

Pete Clark (Oxy) – Technical Advisor

Ben Coco (API) – API Sponsor & Facilitator

Evan G. Bernard – Technical Editor



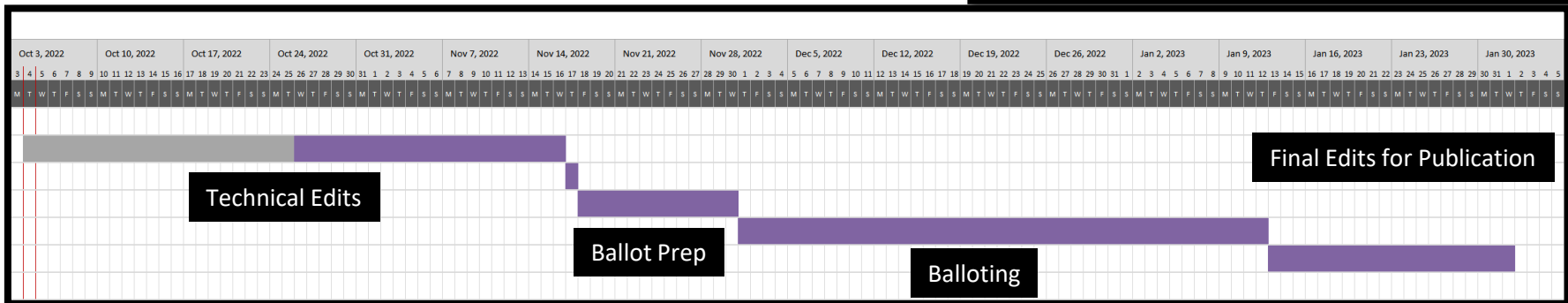
Current Timeline:

- July 31 – Technical Editor Work Began
- Nov 16 – Technical Writer Draft Complete
- Nov 17 – API RP-78 Workgroup Mtg
- Nov 30 – Final API Doc Prep for Balloting
- Dec 1 - API Ballot Released for voting & comment, (6 weeks)
- Jan 13 – Feb 1 - Final Edits for Publication
- March 6th – Final Publication Date

Industry Notification

March 7th - 9th at the SPE/IADC Drilling & Completions Conference

API RP-78		API Leader: Ben Coco			
Wellbore Positioning		API Technical Editor: Evan Bernard			
Will Tank - Chair		Project Start:	Tue, 10/4/2022		
Jonathan Lightfoot - Vice-Chair		Display Week:	1		
TASK	ASSIGNED TO	PROGRESS	Days	START	END
API RP78 Final Edit Schedule					
Finalize Draft	Evan Bernard	50%	43	10/4/22	11/16/22
API Workgroup Meeting	Ben Coco	0%	1	11/17/22	11/17/22
API Ballot Prep	Evan Bernard	0%	12	11/18/22	11/30/22
API Balloting	Ben Coco	0%	42	12/1/22	1/12/23
Final Edits	Evan Bernard		19	1/13/23	2/1/23
Release @ SPE/IADC Drlg Conf	n/a			3/7/23	3/9/23



API RP-78 Timeline



Questions