



INTEGRATED TECHNOLOGIES MWD/LWD Forum

Keeping Your Finger On The Pulse



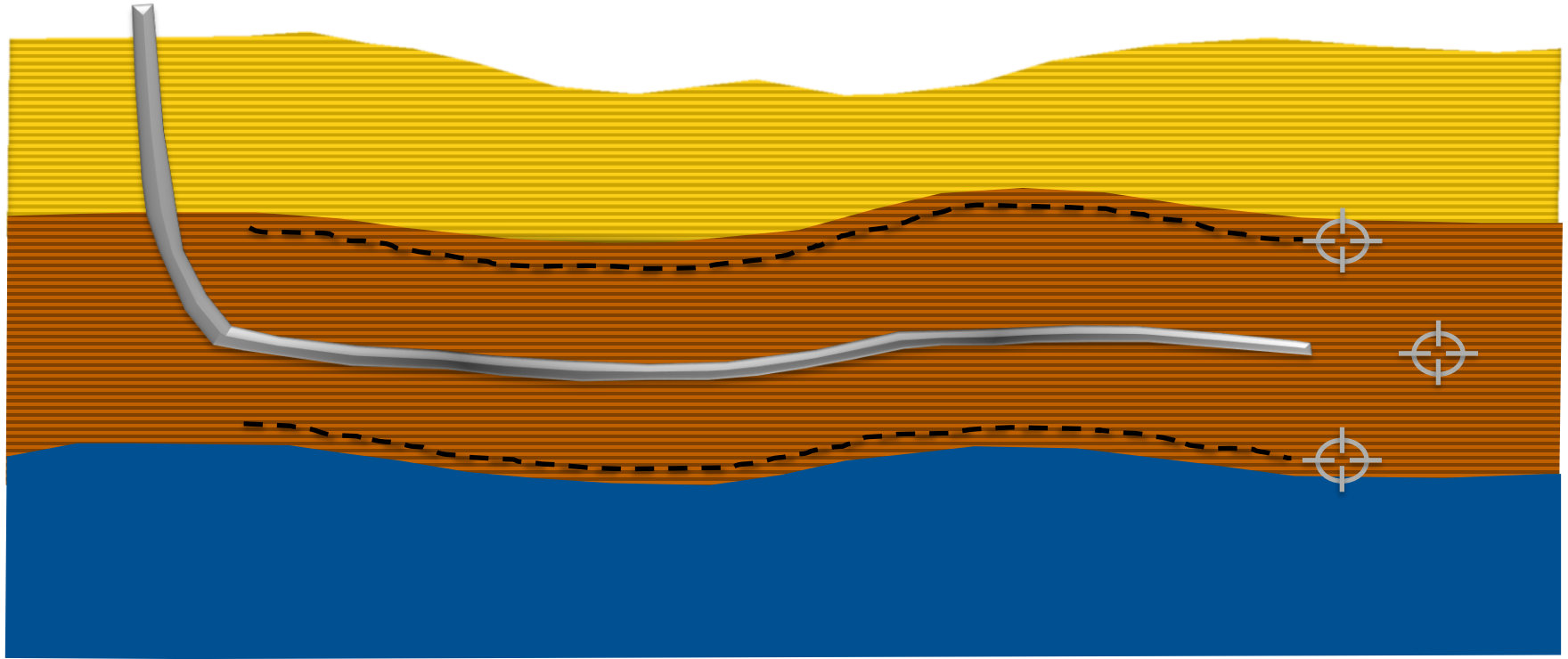
www.iadd-intl.org

Welcome

Speaker and Company Information

- Borislav “Boris” Tchakarov, Ph.D., Member IADD
- VP Technology & COO of Well Resolutions Technology (WRT)
- On the Oil Patch since September 1, 1977 as Drilling/ DD Engineer, EOR contracts, Associate Professor at UMG “St. Ivan Rilski” in Sofia, BG. Since 1990 MWD/ DD Engineer with The Bob Fournet Co. in Lafayette, LA; COMPUTALOG, Western Atlas/ Baker Hughes, PathFinder/ Smith/ SLB.
- Major projects in US: MWD System, Thru Casing Resistivity tool, AziTrak, HTHP RCI, MaxCOR
- 34 US & 13 Bulgarian Patents, Tech papers
- Co-founded with Dr. Tsili Wang Well Resolutions Technology in August 2012 focusing on providing advanced Azimuthal Resistivity measurements for smaller operators and service companies. Currently the Company has 12 employees with average 20+ years experience in major service companies and 6 with Ph.D. degree. WRT holds 21 US patents and 3 pending covering our technologies.
- The Company supports the following product lines:
 1. Deep AziRes BoundaryTrackers™
 2. AtBit Tools: AziGamma, AziRes, PWD
 3. MWD AziGamma
 4. Short hop
 5. Focused AziGamma modules

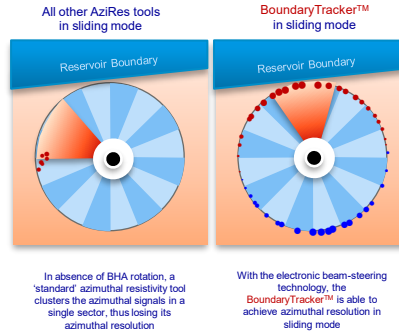
THE IMPACT OF GEOSTEERING AND WELL BORE PLACEMENT ON OIL AND GAS RECOVERY



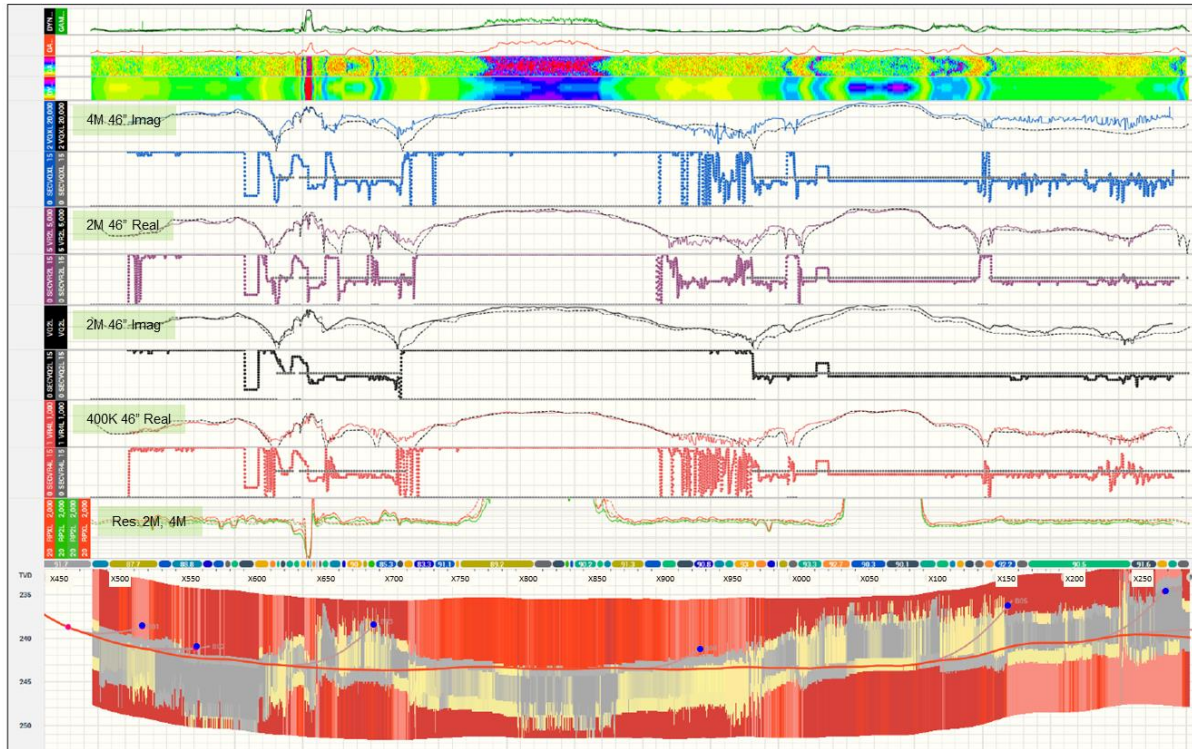
WELL RESOLUTIONS TECHNOLOGY BOUNDARY TRACKING TOOLS

- **BoundaryTracker™**
- Beam-steering deep azimuthal resistivity for boundary mapping while drilling with mud motor or rotary steerable system
- (uSlim 3-1/8 in, 4-3/4 in, 6-3/4 in.)
- **BoundaryTracker™**
- Ultra-slim Beam-steering azimuthal resistivity for boundary mapping in coil tubing drilling
- (2-3/8 in, 3-1/8 in)
- **GeoTracker™**
- Dual-frequency at-bit azimuthal propagation resistivity
- (4-3/4 in, 6-3/4 in)
- **GeoTracker™**
- *Duo*
- Dual-frequency at-bit azimuthal propagation resistivity & azimuthal gamma
- (6-3/4 in)

BOUNDARY TRACKING WHILE SLIDING – THE TECHNOLOGY DIFFERENTIATOR



TESTING OF 4.75" BOUNDARY TRACKER™ IN AUSTRALIA



WELL RESOLUTIONS TECHNOLOGY GLOBAL PRESENCE



Conclusion

- I would like one more time to stress the importance of precision well bore placement for optimizing the oil recovery
- Well Resolutions Technology provides Boundary Tracking Geosteering solutions for directional drilling with mud motors for long sliding horizontal intervals/ laterals
- We provide the same technology for coil tubing drilling in depleted reservoirs to avoid water zones and enable optimal wellbore placement for maximum oil recovery
- Our At-Bit AziRes delivers boundary detection up to 30" right behind the bit to prevent formation exit



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Thank You