



# **TrueTime™**

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## **Rig Surveillance, Geosteering and Drilling Optimization, TrueTime™ 24/7 Technology, Expertise and Best Practices for Faster, Safer and More Cost-Efficient Drilling Operations**

Introducing HSI TrueTime™ ... the key to timely, decision critical information. With a choice menu of drilling surveillance, optimization, and geosteering services, HSI TrueTime is unparalleled in the industry. Now, on-demand, vendor independent drilling surveillance and expertise is a reality ... from the rig to anywhere ... from pre-spud to completion. The net result? Safe, optimally engineered wells, reduced nonproductive time (NPT), fewer redrills and increased overall production from optimized wellbores, on target and in zone.

- TrueTime data distribution and analysis
- 24/7 remote operations center
- Active navigation and geosteering
- On-demand well optimization expertise, pre-well optimization modeling (BHA, hydraulics, torque and drag)
- Post well analysis for continuous improvement of company best practices
- Reduce drilling uncertainty, risk and NPT
- Instant exception alerts based on client approved parameters
- Twice-daily custom reporting with a summary with a drilling operation activities



### **Collaboration is Key**

Fast digital aggregation of critical information can be overwhelming without effective interrogation systems and collaboration. The HSI TrueTime Operations Center provides analyses and alerts that are based on pre-spud collaboration and input from across the disciplines and companies servicing the well. Collaboration continues throughout the program to ensure that problems are managed proactively rather than reactively. Finally, HSI facilitates post well collaboration between members of the asset team to apply lessons learned for continual process improvement and maximum exposure to the production of future wells.

### **Flexible Integration**

HSI TrueTime's Vendor Neutral Technology platform seamlessly digests data utilizing numerous industry standards including WITS and WITSML. This technology can be embedded with your overall digital oilfield initiatives. In addition to drilling information data standards, HSI TrueTime links to and seamlessly integrates with the industry's first cloud based geosteering software LatNavNet. TrueTime multiplies the return from your software portfolio.

**Dallas   Denver   Houston   Pittsburgh**

**[www.horizontalsi.com](http://www.horizontalsi.com)**

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## Well Planning

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HSI's TrueTime Operations Center experts study critical historical log data, drilling event logs and vendor proposals to help derive a vendor neutral well plan geared to improve drilling performance, reduce drilling risk and define exception alert parameters to be applied during drilling surveillance.

Pre-spud review of drilling, reservoir and geologic data is also vital to allow mutual consideration of lease boundaries, reservoir properties, geologic uncertainty and engineering risk. This knowledge is communicated to the TrueTime team for improved surveillance and early recognition of both drilling and geologic hazards.



## TrueTime Drilling Optimization

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HSI TrueTime is committed to helping design the best well possible and to supporting your well site team. To meet performance drilling objectives, HSI TrueTime incorporates experienced personnel, advanced processes, leading drilling technology, and advanced drilling software applications to help produce higher rates of penetration to reduce risk, eliminate nonproductive time, and reduce overall drilling cost.

## Geosteering

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Horizontal Solutions International (HSI), is the first and most experienced leader in horizontal geosteering services.

Our experts can help you navigate through complex geology and confidently increase well production by reducing uncertainty and maximizing time in zone. True Stratigraphic Position (TSP) modeling is incorporated in our workflows to interpret horizontal data and provide accurate stratigraphic and structural interpretation. Cloud based LatNavNet software provides data management and integration of TSP to confidently guide wells to achieve maximum target zone penetration. These quantitative results save time, money and avoid costly errors.



Leveraging HSI's TrueTime data delivery, geonavigation specialists are now able to discern structural and stratigraphic anomalies as they are encountered, enabling faster highly informed steering adjustments.



## Post Well Analysis

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Accumulation of data during drilling allows for updates to the geological and drilling models. As a result, subsequent wells can be effectively placed in order to optimize the wellbore and ultimately increase overall production.

How much can you save through hazard avoidance? How well can you be rewarded through higher IP and EUR from increased zone penetration?



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