



WellPathML – Business Drivers

Matthew Kirkman

April 2004

<WITSML/>

Wellsite Information Transfer Standard Markup Language



bp

STATOIL



ExxonMobil



HYDRO

ChevronTexaco



PIONEER NATURAL RESOURCES



HALLIBURTON



NPS

Schlumberger



petrolink



dti



POSC

Data standards

- BP a leading supporter of the move to web services and XML for wellsite data. Other current initiatives include Distributed Fibre Optic Temperature sensing, and WITSML.
- The industry as a whole is moving in this direction, in fact the Public Petroleum Data Model (PPDM) has a similar proposal building on the POSC and WITSML models for the PPDM.
- This proposal for trajectory data is supported by the earlier POSC work, the UK DTI, and we hope to reach consensus with PPDM. This is intended to evolve into a comprehensive model for planning, operational and definitive survey data.
 - The “Other documents” folder on the CD includes the PPDM proposal, and the current UKOOA document, as well as recent presentations on XML in drilling

- Well trajectory data is moved from application to application
 - Targets in the reservoir for facilities concepts and costs
 - Targets in the reservoir to outline well plans for directional contractors
 - Directional contractors detailed plans to BP Drilling and Subsurface
 - Offset definitive surveys to contractors for collision risk planning
 - Directional contractors to subsurface during drilling (WITSML)
 - Directional contractors to drilling for definitive survey
 - Drilling to subsurface for final survey in subsurface apps
 - Drilling to statutory authority reporting
 - Public domain to subsurface for offset analysis

Extensive manual effort involves cost

- Operators often outsource well planning and there is a saving in time if data exchange can be automated. Web services enable data transfer bi-directionally to contractors and internal applications, and the filing of statutory reports and retrieval of public domain data.
- There is a cost saving by ensuring work is not repeated due to synchronisation failures between the drilling and subsurface teams
- There are procurement savings
 - Through ensuring processes are vendor neutral for services
 - By ensuring application substitution costs are reduced, with a comprehensive, neutral extract and import process

Outcome

- Standards need stakeholders willing to invest the effort to keep them current with changing technology and business challenges
- We are seeking participation from the community involved in moving survey data from application to application to develop and evolve this draft proposal, in conjunction with the WITSML SIG.
- BP are committed to support the implementation of this standard with application vendors and directional contractors in 2004, and consulting with the DTI in making it a success.

