



ePermit XML Collaboration: Oil & Gas Well Permits / Reports

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Presentation Outline

- ❑ *Background: BLM / MMS Electronic Commerce***
- ❑ *EC Trends & Ongoing State Collaboration***
- ❑ *Current ePermit XML Project Status***



Background: API ANSI Transaction Sets

- **American Petroleum Institute (API) – Electronic Data Interchange (EDI) Standards under ANSI X12**
 - ✓ **Transaction Set 185: Royalty Regulatory Report**
 - ✓ **Transaction Set 867: Production Transfer & Resale Report**
 - ✓ **Currently MMS-MRM Receives 99% of their Reports by EDI**

- **1997-98 TS 625: Well Information approved by ANSI**
 - ✓ **Data Scope: Engineering, Geological & Environmental Data**
 - ✓ **O&G Drilling Permits (APDs) & Sundry Permits / Reports**
 - ✓ **DOI Participants: MMS Offshore & BLM Onshore**
 - ✓ **State Oil & Gas Commissions (4)**
 - ✓ **Oil & Gas Industry Operators (6)**

Background: BLM / MMS-OMM EC Platforms



- ***In 2000 BLM Deployed the Well Information System (WIS) Component of Automated Fluid Minerals Support System (AFMSS)***
 - ✓ ***Web-Forms to Submit Well Permits / Reports / Attachments***
 - ✓ ***WIS Design based TS 625 Data Objects***
 - ✓ ***No Direct or Batch EDI Capabilities – Web-Forms Only***
 - ✓ ***Operator Completes a Web-Form & Receives by email, an Adobe PDF File of Approved Well Permit / Report***

- ***In 2004 MMS-OMM Deployed eWell Pilot***
 - ✓ ***Similar to AFMSS/WIS Concept - But Much Improved***



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Electronic Commerce Trends

- **AFMSS / WIS Utilization by Industry & Permit Agents**
 - ✓ Over Last 4.5 Years: 24,000 Permits / Reports
 - ✓ Electronic Trading with 530 Operators
 - ✓ For FY03, 22% of all BLM Well Permits / Reports by EC

- **Since 2001, BLM Collaborating w/ State Commissions**
 - ✓ AK, CA, CO, NM and WY – Who have EC Web-form Sites
 - ✓ Each State Interface necessary for AFMSS/WIS is Unique
 - ✓ Work Impacted by Cobell Lawsuit / Court Order
 - ✓ State O&G Commission Interest Growing – MT, UT & NE
 - ✓ Ground Water Protection Council (GWPC) **eReport XML Schema** Synergy via API-PIDX Regulatory User Group



Background: Emerging Needs / XML Standards

- **Industry / Permit Agents Desire Batch Submission**
 - ✓ **Redundant Website Data Entry w/ State / Fed / Across States**
 - ✓ **Desire a Submit Once Electronically / Receive Many ePermit**
 - ✓ **High Energy Development Activity for O&G BLM Field Offices**
 - ✓ **BLM has Significant Data Entry Workload for non-EC (78%)**

- **O&G Service Industry / Operators into XML Standards**
 - ✓ **WITSML: Wellsite Information Transfer Standard [Markup Language]**
 - ✓ **WellHeaderML, WellLogML, WellPathML under POSC**
 - ✓ **Support Real-time Drilling & Well Service Activities**
 - ✓ **Various Serious Payers: Service Industry & Major Operators**



WITSML Participants - Hardhat Stickers



Wellsite Information Transfer Standard Markup Language



HALLIBURTON



Schlumberger



dti





WITSML Data Objects



***Bottom Hole Assembly
Run***

Cement Job

Conventional Core

Fluids Report

Formation Marker

Log *

Message

Mud Log

Operations Report

Real Time

Rig / Rig Equipment

Server Capabilities

Sidewall Core

Subscription

Survey Program

Target

Trajectory *

***Tubular / Bit Record / Open
Hole***

Well *

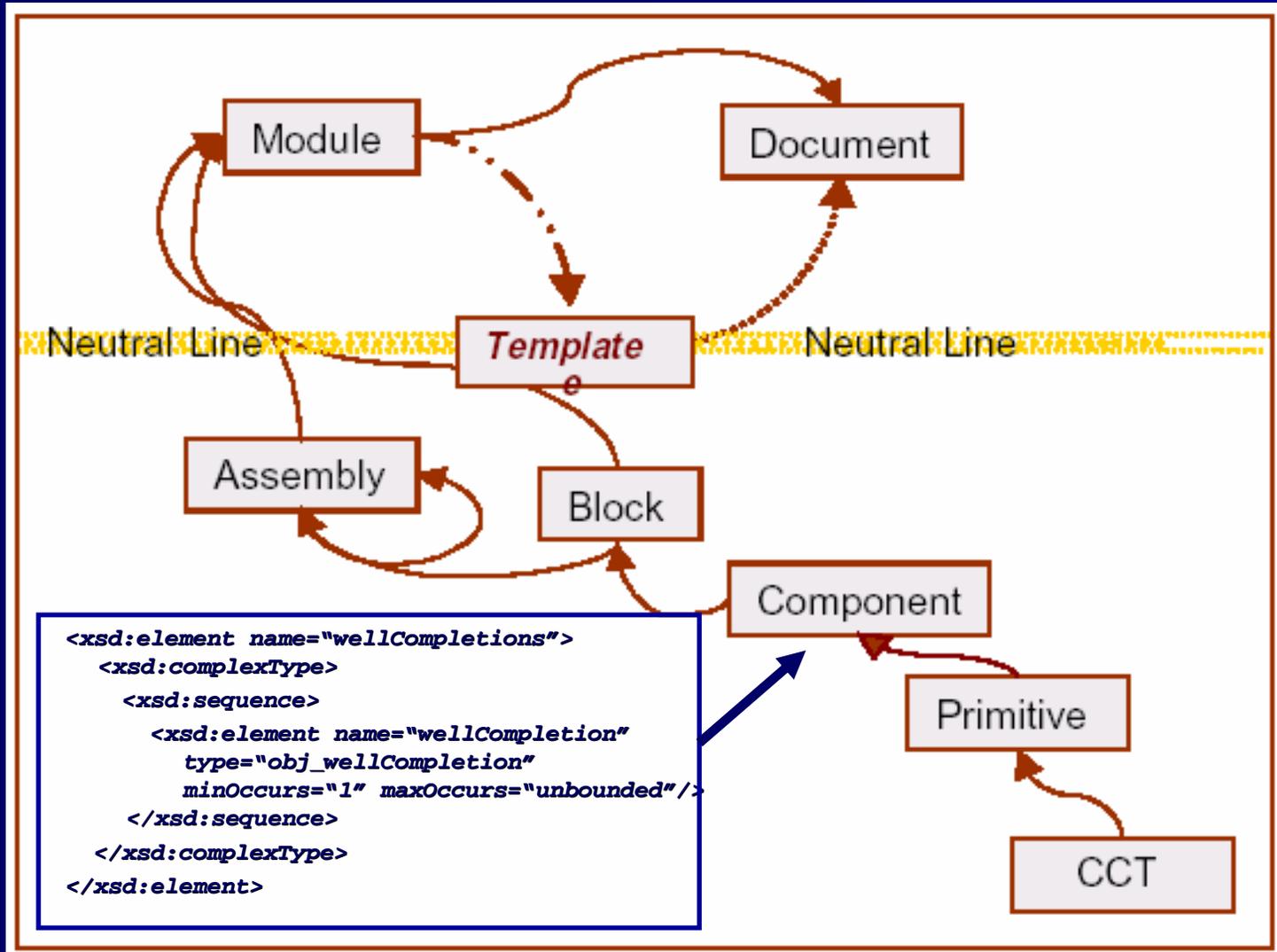
Wellbore *

Wellbore Geometry

**** Initial implementation delivered in 2002***



XML 101: Components & Tag Names





Recent BLM / MMS O&G Business Actions

- **2003 BLM ITIB-Approved the Enhanced AFMSS EC Project Business Case**
 - ✓ **By 2007, Increase EC Submissions to 60% of all Received**
 - ✓ **Support Batch Submissions from Industry & w/ State Gov't**
 - ✓ **Fully Automate the BLM Workflow – Much is Still Manual**
 - ✓ **2003 Project Fully Integrated into the AFMSS OMB-300**

- **2003-04 MMS-OMM**
 - ✓ **OCS Connect E-Government Transformation (2003-2007)**



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Current ePermit XML Project Status

- **2003-04 Collaboration onePermit XML Business Case**
 - ✓ **Conducted under the Auspices of API-PIDX REGS / POSC**
 - ✓ **Key Participants: BLM, MMS-OMM, GWPC/States, Industry**
 - ✓ **Business Case Completed in January [www.posc.org]**
 - ✓ **ePermit XML Structured on Six Projects**
 - ◆ **Project 0: Vision and Open Participation (Governance)**
 - ◆ **Project 1: Data Transfer Message Specifications (XML)**
 - ◆ **Project 2: Agency Data Transfer Receipt Reference Imple.**
 - ◆ **Project 3: Agency Web Forms Reference Implementation**
 - ◆ **Project 4: Operator Client Forms Reference Implementation**
 - ◆ **Project 5: Operator Embedded Capabilities Pilot (Batch)**



Current ePermit Project Status (Cont'd)

- **Project 0: Vision / Open Participation (Governance)**
 - ✓ **Completed MOU (Participants Yet to Sign)**
 - ✓ **Drafted Letters of Intent (BLM, GWPC and CA)**
 - ✓ **MMS-OMM to Join? eWell Pilot Considering Batch Submission**

- **Project 1: Data Transfer Message Spec's (XML)**
 - ✓ **Feb. Meeting in Sacramento [GWPC, CA, BLM, POSC/API]**
 - ✓ **Focusing on California Pilot for APD leveraging WITSML**
 - ✓ **GWPC has applied for US DOE Funding**
 - ✓ **In addition to ePermit XML Development, Pilot would include:**
 - ◆ **Project 2: Agency Data Transfer Receipt Reference Imple.**
 - ◆ **Project 5: Operator Embedded Capabilities Pilot (Batch)**

XML Tooling Up for ePermit Portals



BLM CCFO Internal Draft Wildland Fire Situation Analysis - Netscape

File Edit View Go Communicator Help

Back Forward Reload Home Search Netscape Print Security Shop Stop

Location: http://blm0442743//NobilityReports/ProjectReports/CCFO_WFSA_Report-R3.php?ProjectID=8 What's Related

Instant Message WebMail Radio People Yellow Pages Download Calendar Channels

CHAPTER III. AFFECTED ENVIRONMENT

SCOPING AND ISSUE IDENTIFICATION

Issues Determined to be Unaffected by the Proposed Action

Critical Elements Not Affected:

- Critical Element - ACECs (Areas of Critical Environmental Concern)
- Critical Element - Solid or Hazardous Waste
- Critical Element - Wild and Scenic Rivers
- Critical Element - Wild Horse & Burro

Issues Not Carried Forward for Analysis:

- Geologic Resources/Minerals
- Water Rights

Issues identified during scoping or major issues driving the EA

Critical Elements Carried Forward for Analysis:

- Critical Element - Air Quality
- Critical Element - Cultural Resources
- Critical Element - Environmental Justice
- Critical Element - Farm Lands (prime or unique)
- Critical Element - Native American Religious Concerns
- Critical Element - Paleontology
- Critical Element - Threatened or Endangered Animals
- Critical Element - Threatened or Endangered Plants
- Critical Element - Visual Resources
- Critical Element - Water Quality

Document: Done



Questions?

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