

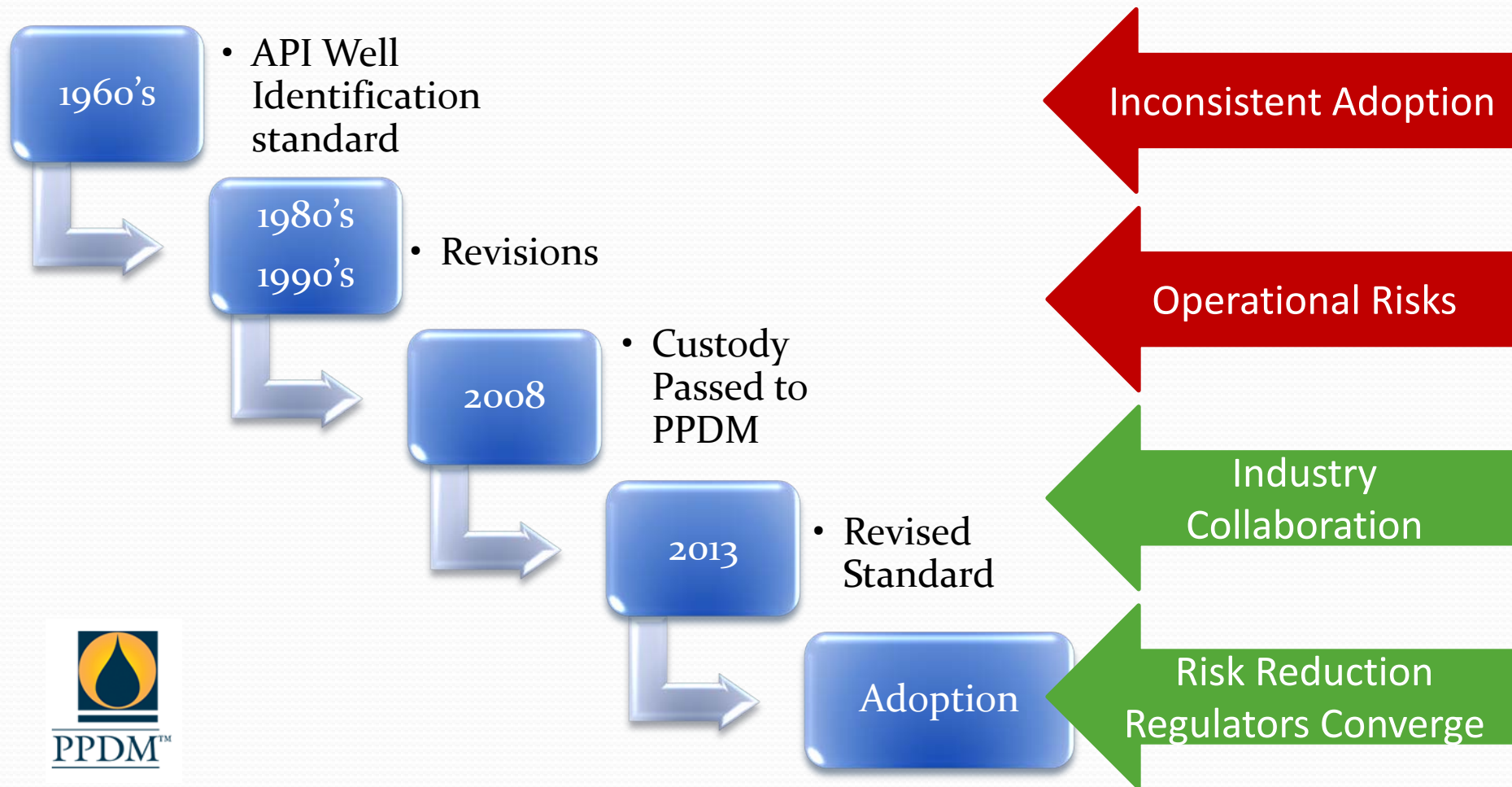
Revised API Well Numbering System

Donald J. Drazan, NYS Dept. of Environmental Conservation
GWPC Annual Forum
St Louis
September 24, 2013

Overview of the project

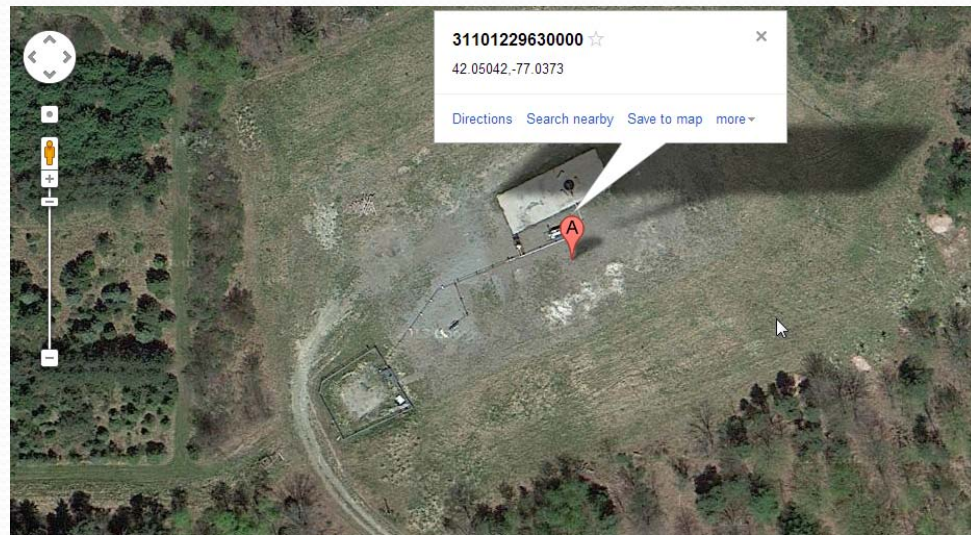
- The American Petroleum Institute (API) created the well numbering standard D12 in the early 1960's. Since that time several modifications have been made to the standard.
- In early 2010, the API transferred stewardship of the API Well Number to the Professional Petroleum Data Management Association (PPDM). PPDM is a global, not-for-profit professional society that provides data management standards and best practices for the petroleum exploration and production industry.
- PPDM formed the Well Identification Project. Industry participants, along with regulators formed the team. The goal was to create a new version that would honor existing standards but allow industry to identify and catalogue new well technologies in a consistent, universal manner.
- PPDM released the revised standard in September 2013 as a formal 12 digit number with the goal to accurately track the information regarding drilled footage to limit the potential of subsurface collisions. 13 + options will support state programs to allow for regulatory requirements.
- PPDM is working with states and the Risk Based Data Management System in formalizing adoption of the standard.

Overview of the Project



Original API Standard

- Ten digit number pre 1970's
 - State Code two digit NY = 31
 - County Code three digit Steuben = 101
 - Unique Well Code five digit 22963
- Accurately located the well on the surface of the earth

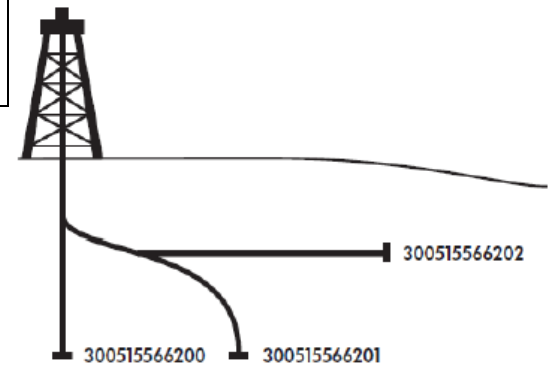


API 12 Standard

Table 1. API Well Number - 1978

(based on the API Bulletin D12A)

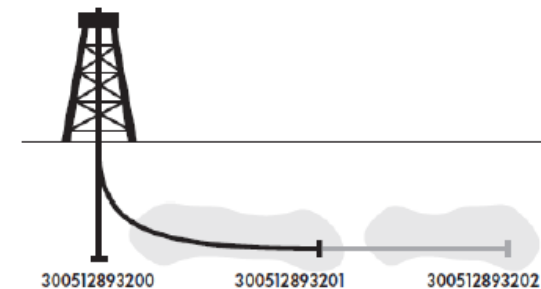
Positions:	1-2	3-5	6-10	11-12
Code Name:	State	County	Unique Well Code	Directional Sidetrack
Example:	31	101	22963	03



State Code	County Code	Well Code	Wellbore Code
30	051	55662	00
30	051	55662	01
30	051	55662	02

API Number - 2013

Table 2. API Number – 2013 (based on industry revision in 2013)					
Positions:	1-2	3-5	6-10	11-12	13+
Code Name:	State	County	Well	Wellbore	Extension (Optional)
Example:	31	101	22963	03	00
Note: Only digits are allowed in positions 1 – 12.					



Revised standard is to track well bores to reduce possibilities of collisions. Term sidetrack updated to wellbore.

State Code	County Code	Well Code	Wellbore Code
30	051	28932	00
30	051	28932	01
30	051	28932	02

API Number – 2013 continued

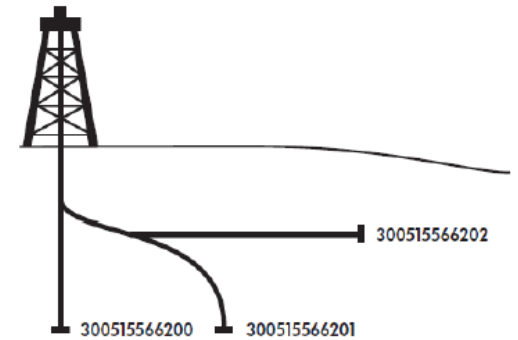
- Benefits
 - Risk Mitigation
 - Identify all wellbores
 - Prevent subsurface collisions of well bores
 - Regulatory Efficiency
 - Endeavor to create a common methodology for use
 - Helps regulators
 - Helps industry

API Number – 2013 continued

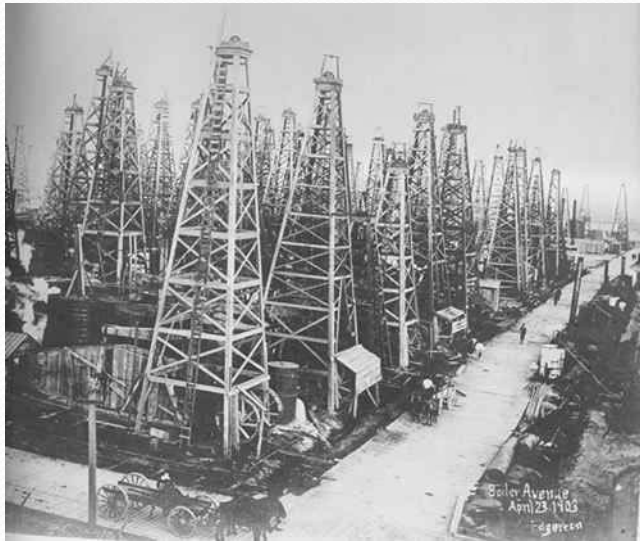
- Main take away
 - Additional drilling (deepenings) are now to be tracked at the 11-12 position
 - Issuing authority (regulator) determines what constitutes a deepening
 - Ability to identify any and all wellbore tracks by a unique ID.
 - Not leave it up to additional “metadata” to see if additional tracks are present

Deepening Issues

- The days of your father's wells are gone
 - Vertical well bores
 - Spaced units
 - Once plugged few options for reentry
- Complexities' surrounding pad drilling
 - Multiple surface penetrations from a common site
 - Option for multiple sidetracks from a original wellbore
- Changes in operators and loss of records



Early Well Density

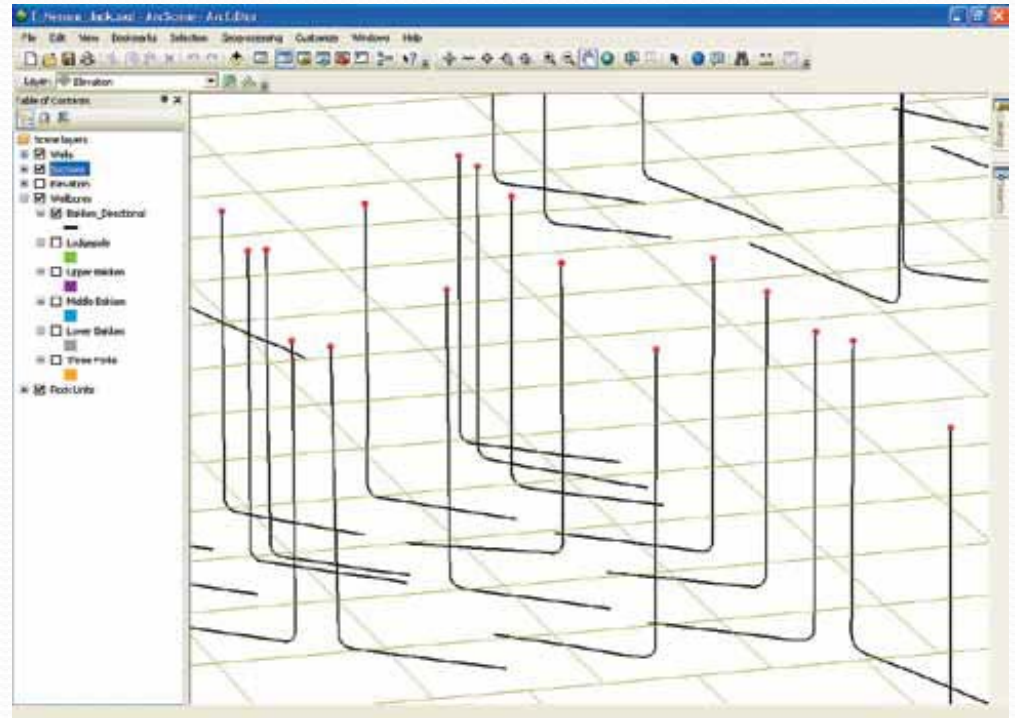
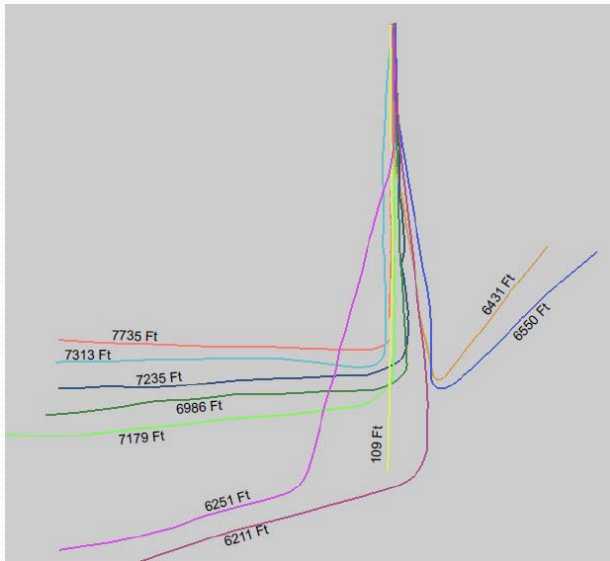


Spindle Top, Tx



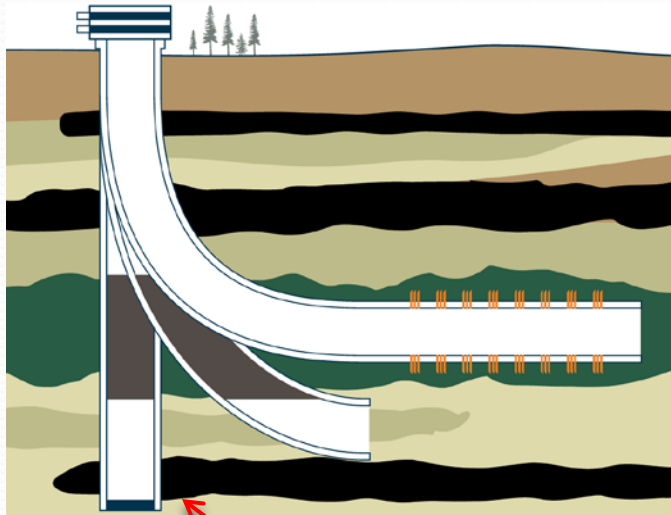
Richburg, NY

Increasing Complexity

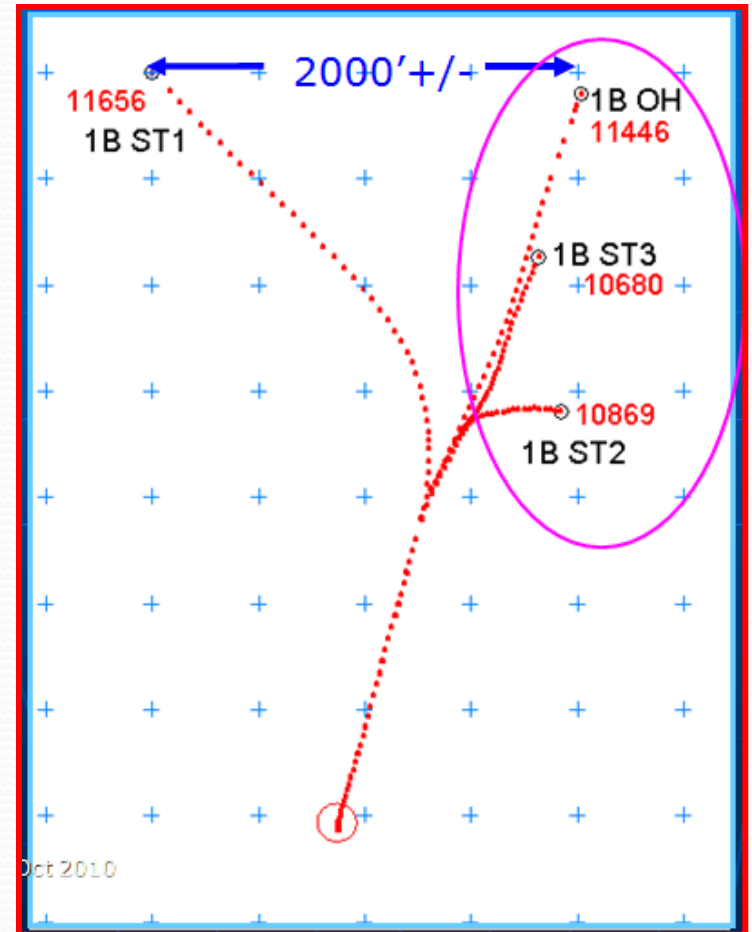


From: ESRI Petroleum GIS Perspectives
Fall 2011 Issue

Why “Missing” Wellbores Matter



Pilot Hole is deeper than the Lateral



PPDM wants to create a dialog

State	Organization	Name	Sent for Review?
Alabama	Public Service Commission, Energy Division	Nick Tew	Y
Alaska	Oil & Gas Conservation Commission	Steve Davies Cathy Foerster	Y
Arkansas	Oil & Gas Conservation Commission	Larry Bengal	Y
Colorado	Oil & Gas Conservation Commission	Thom Kerr	Y
Gulf of Mexico	The Bureau of Ocean Energy Management (BOEM)	Michael Celata Michael Raymond	Y
Gulf of Mexico	Bureau of Safety and Environmental Enforcement (BSEE)	Katherine Ross Christopher Schoennagel Warren Williamson	Y
Kansas	Oil & Gas Conservation Division	Steve Bond Doug Louis Barry Metz	Y
Kentucky	Oil & Gas Division	Kim Collings	Y
Louisiana	Regulatory Section, Office of Conservation - Engineering Division	Kjel Brothen James Welsh	Y
Michigan	Permits and Bonding Unit DEQ - Office of Oil, Gas, and Minerals	Mark Snow	Y
Mississippi	Oil & Gas Board	Lisa Iyshin	Y
Montana	Montana Board of Oil & Gas Conservation	Tom Richmond	Y
Nebraska	Oil & Gas Conservation Commission	Stan Belieu	Y
New Mexico	Oil Conservation Division	Ed Martin Jami Baily	Y
New York	Bureau of Oil and Gas Permitting and Management - Division of Mineral Resources	Don Drazan Amanda Trotter	Y

State	Organization	Name	Sent for Review?
North Dakota	North Dakota Industrial Commission, Department of Mineral Resources, Oil and Gas Division	Mark Bohrer Lynn Helms	Y
Ohio	Division of Oil and Gas Resources Management	Marlene Hall Steve Opritza	Y
Oklahoma	Oil & Gas Conservation Division Oklahoma Corporation Commission	Bob Griffith Jackie Huff Ben Novosad Virginia Hullinger Duncan Woodliff	Y
Pennsylvania	Division of Compliance and Data Management, Bureau of Oil and Gas Planning and Program Management	Joseph Lee Jr Scott Perry	Y
Texas	Administrative Compliance Section Oil & Gas Division Railroad Commission of Texas	Tim Poe Gil Bujano	Y
Utah	Utah Oil and Gas, Division of Oil, Gas and Mining, Department of Natural Resources	Don Staley, John Rogers, Dan Jarvis, Brad Hill, Dustin Doucet & Randy Thackeray	Y
West Virginia	Commonwealth of Virginia, State Corporation Commission, Division of Energy Regulation	James Martin	Y
Wyoming	Oil and Gas Conservation Commission	Grant Black Gary Strong	Y
Wyoming	Bureau of Land Management	Dalila Toussaint Jerry Dickinson	N
Organization	Ground Water Protection Council (GWPC)	Paul Jehn Mike Paque	Y
Organization	Interstate Oil and Gas Compact Commission (IOGCC)	Mark Nechodom Gerry Baker	Y

Emerging Standard for 13+

- RBDMS States use 14 digit number- not all standardized
- Internal industry systems use different standards
- Goal
 - Determine standard for use
 - Completions?
 - Regulatory events?

Questions

The screenshot shows a web browser window with the address bar displaying `wellidentification.org/usa`. The browser tabs include "Getting Started", "Gale Search Alert - (...)", and "Imported From Firef...". The website header features the PPDM logo and the title "Well Identification". A left-hand navigation menu lists "United States", "Canada", "Global Framework", "PPDM.org", and "What is a Well?". The main content area is titled "United States" and contains several sections: "Standard" (with a link to "The API Number Standard: An Identifier for Petroleum Industry Wells in the USA - 2013" and "FAQs"), "Illustrations" (with a link to "The API Numbering Assignment Illustrations - 2013"), "State and County Codes" (with a link to "API State and County Codes"), "Communications" (with links to "API Number 2013 Press Release - September 3 2013" and "API Number 2013 Article - September 3 2013"), "Resources" (with links to "US API Bulletin 1979", "US API Comparison", and "WIAW Booklet"), and "Project Work Group" (with a link to "PPDM US Well Identification Revision Project Web Page").

