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PPDM Association

US State by State comparison of Unique well identification (UWI) practices

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 - d) the language to be used in the arbitral proceedings shall be English;
 - e) the Arbitrator shall be a person who is legally trained and who has experience in the information technology field in Canada and is independent of either party; and,
 - f) the decision of the arbitration court shall be final and binding upon each of the parties.
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UWI State by State Comparison

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	Alabama (AL)	Alaska(AK)	Arkansas	Bureau of Land Management (BLM) (onshore)	California (CA)	Colorado (CO)
State code	01	50	03	None	04	05
UWI number length	14 **	14 **	14 **	12 plus 3 digit Producing Interval Code	10	12
Unique UWI-10 for each Surface Location?	Yes	Yes	Yes		Yes	Yes
Unique UWI-12 for each wellbore?	Migrating towards UWI-12	Yes	No	12 internal coding	No	Yes
Remedial sidetrack around hole problems /mis-steered well	No	Yes	No		No	Yes, if operators report correctly. *See 'Potential Pitfall' section.
Multilateral	Historically only UWI-10 was used. Currently each lateral would be separately permitted with unique UWI-12s.	Separate UWI number for each lateral to planned target (no UWI change for junked lateral). *See 'Potential Pitfalls' section about UWI 11-12 th digits.	No, all wellbores stored under same UWI-10. Author unable to identify any multi-laterals in AR		All wellbores are captured as part of same UWI-10.	Few multi-laterals in CO. Originally, these were permitted under the same UWI number (e.g., 05-067-06221-00), but current practice is to require permit for each wellbore to new target.
Multiple Completions	Historically all completions in same wellbore have the same UWI number. Current practice is that the 13-14th digits are incremented with each completion.	All completions in same wellbore are associated with the same UWI number.	No information in UWI number about completions, either multiple completions at same time, or completion changes over time		No completion information represented in UWI number.	No completion information represented in UWI number.
General Notes		AK assigns the "county code" portion of UWI number by using a 3-digit USGS quadrangle code.	Arkansas pads 4 zeros for UWI digits into 11-14 in their online system. Occasionally, there are non-zero values of unknown purpose. For example, Well 03-139-00312-00-00 and 03-139-00312-00-01 are different wells.	The "What is a Well?" website provides an overview on the Producing Interval Code. This is despite what the State may issue.	As of February 2015, California intends to stay at UWI-10.	
Adherence w/ Standard		1, 2, 3				1,2,3

*For more detailed information, see the [U.S. UWI Numbering by State Comparison](http://www.ppdm.org/) spreadsheet at <http://www.ppdm.org/>

**Denotes States using the Risk Based Data Management System, this system by default issues a 14 digit UWI regardless of how the State chooses to implement well identification

Adherence with the Standard is reflected by the codes 1, 2, 3- 1: Increments 11-12 for sidetracks or additional drilling. 2: Lost Holes Retain Original UWI Number. 3: Pilot Holes are tracked.



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UWI State by State Comparison

	Gulf of Mexico Federal Water	Illinois (IL)	Idaho (ID)	Indiana (IN)	Kansas (KS)
State Code	17, 42, 60 (Deepwater)	12	11	13	15
UWI number length	12	12	14 **	Does not assign UWI number. *See 'Comments' section	14 **
Unique UWI-10 for each Surface Location?	Yes	Yes	Yes		Yes
Unique UWI-12 for each wellbore?	Yes	No, unless sidetrack separately permitted	Yes		Variable
Remedial sidetrack around hole problems/mis-steered well	All wellbores must be uniquely permitted and are each assigned a unique UWI-12. Author is unaware of multi-lateral horizontal drilling in GOM.	No			Yes they currently permit remedial sidetracks because of the possible data (logs, etc.) and samples that may be associated with each well bore.
Multilateral		Each permit results in incrementing the 11-12th digits of the API number. Multilaterals that are permitted as a single event are assigned a single 12-digit API number.	Not many multilateral wells have been drilled		Multi-laterals are sometimes treated as a single permit with single UWI number. In other cases, the 13-14th digits of UWI number are incremented for a series of planned multiple laterals (which were never drilled).
Multiple Completions	The BSEE uses a 3 digit Producing Interval Code that reflects the number of completions, and sequence. This code is not part of the UWI number but production reporting is on both UWI-12 plus this code.	Each permit results in incrementing the 11-12th digits of the API number. Multiple completions that are permitted as a single event are assigned a single 12-digit API number.	State uses RBDMS 13-14 anticipated for multiple completions.		Kansas uses the 13-14th UWI digits for many different well events. Well deepening, recompletion to new reservoir, conversion of well from producer to disposal, or re-entry of plugged well. *See 'Potential Pitfall' section.
General Notes	The "What is a Well?" website provides an overview on the Producing Interval Code.	API numbers are assigned by the Survey, up to a month after a permit is approved by DNR. This can result in problems with assigning Unique Well Identifiers prior to API assignment.	Primarily a new program. Roughly 200 historic wells were drilled in Idaho. New activity has generated legislation and a revived regulatory program.	Regulator assigns permit numbers to new wells and many other well events including deepening, sidetrack, recompletion, plugging and re-entry. The Indiana Survey assigns a unique IGS number to each well record. There are no UWI numbers assigned by either entity as of October 2009.	The UWI number is based on the surface location of the well, not on where the well is eventually completed
Adherence w/ Standard			1, 2, 3 No current wells		1

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UWI State by State Comparison

	Kentucky (KY)	Louisiana (LA)	Michigan (MI)	Mississippi (MS)	Montana (MT)
State Code	16	17	21	23	25
UWI number length	10 **	10	14 **	14 **	10 ** padded with 4 zeroes in online database
Unique UWI-10 for each Surface Location?	No, multiple UWI-10 for recompletions and deepenings	Yes	Yes	Yes	Yes
Unique UWI-12 for each wellbore?	No, multiple UWI-10 for sidetracks	No	Yes	No	No
Remedial sidetrack around hole problems/mis-steered well			Yes	No	No
Multilateral	Laterals drilled at the same time have same UWI-10. Laterals drilled at different times will each have a unique permit number and a unique UWI-10	All wellbores are captured as part of same UWI-10.	11-12 are incremented for each lateral.	All wellbores are captured as part of same UWI-10	All wellbores are captured as part of same UWI-10
Multiple Completions	Recompletion to a new reservoir will result in a new permit number and a new UWI-10	No completion information represented in UWI number. A unique permit number is assigned to each completion, but the UWI number does not change with recompletion.	Michigan has not assigned UWI numbers to several thousand historic wells that are stratigraphic tests.	The 13th digit of UWI number provides information on the number of completions for wells that produce from more than one reservoir at the same time. The first completion is the "0", the second is the "1", etc.	Not part of UWI number
General Notes	Kentucky uses permit number, not UWI number, for operators to communicate with the regulator. The Kentucky Geological Survey has assigned record numbers to each well event for every record, well log or other information that they have assembled. Permit number and/or Record Number are the key identifiers for working with Kentucky well data and integrating data types, such as well logs. Kentucky uses RBDMS and a pseudo UWI is generated but not used.	UWI digits 3-5 denotes Parish and not County. The LA digital database does not include multiple TD values or bottom hole locations for either remedial or geologic sidetracks. However, LA SONRIS captures narrative information for many wells. This information can assist efforts to decipher drilling and possibly recognize multiple wellbores.	13-14 is used inconsistently to define some events. New deployment of data management system will include stratigraphic "Mineral Wells" and more clear direction on completion information will be available.	MS places intelligence in digit 11, if greater than 0 well is a directional.	While not maintained as part of the UWI, MT tracks and has multilateral information available online in their data management system.
Adherence w/ Standard			1, 2, 3	1	

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UWI State by State Comparison

	Nebraska (NE)	New Mexico (NM)	New York (NY)	North Dakota (ND)	Ohio (OH)	Oklahoma (OK)
State Code	26	30	31	33	34	35
UWI number length	12 ** padded with 2 zeros	10	14	10** padded with 4 zeroes in online database	14**	14**
Unique UWI-10 for each Surface Location?	Yes	Yes	Yes	Yes	Yes	Yes
Unique UWI-12 for each wellbore?	Yes	No	Yes	No. *See 'Potential Pitfall' section.		No
Remedial sidetrack around hole problems/mis-steered well		No	Yes if permitted activity	No. *See 'Potential Pitfall' section.	No	No
Multilateral		All wellbores are captured as part of same UWI-10	Laterals tied to mis-steers are tracked	All wellbores are captured as part of same UWI-10*See 'Comments' section regarding tracking horizontal legs.	All wellbores to a unique subsurface location are identified with separate 11-12th digit of UWI number.	All wellbores are captured as part of same UWI-10.
Multiple Completions	Not part of UWI number	Not part of UWI number	NY increments 13-14th digits for each completed reservoir. Many older recompletions were performed prior to the current numbering approach. A project is underway to maintain unique ID for each producing zone.	Not part of UWI number.	OH increments 13-14th digits for each completed reservoir and for each rework of an existing reservoir.	Not part of UWI number.
General Notes			Occasionally, the 13-14th digits of UWI number have been used for re-permitting of an existing permit that has not been drilled. Most wells ending in -0001 indicate that another completion has occurred, but make sure that the -0000 has a spud and completion date to be certain.	While not maintained as part of the UWI, ND tracks and has multilateral information available online in their data management system.		OCC has implemented 14 digit UWI numbering for e-filing system. The 14th digit is incremented with any event that requires regulatory approval, including events such as operator change for a well. Form 1002A still does not include this 14-digit UWI number.
Adherence w/ Standard	1		1, 3		1, 2, 3	1

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UWI State by State Comparison

	Pennsylvania (PA)	Texas (TX)	Utah (UT)	Virginia (VA)	West Virginia (WV)	Wyoming (WY)
State Code	37	42	43	45	47	49
UWI number length	10 digit although starting to see some operators listing 12 digits on permits	10	10** padded with 4 zeroes in online db	12	10	10
Unique UWI-10 for each Surface Location?	Yes	Yes	Yes	Yes	Yes. *See 'Potential Pitfall' section.	Yes
Unique UWI-12 for each wellbore?	Not part of UWI number on PA IRIS system	No	No	Yes	No	No
Remedial sidetrack around hole problems/mis-steered well	No	No	No	No	No	No
Multilateral	No	All wellbores are captured as part of same UWI-10.	All wellbores are captured as part of same UWI-10.	Will use 11-12 for multilaterals.	All wellbores are captured as part of same UWI-10.	All wellbores are captured as part of same UWI-10.
Multiple Completions	Not part of UWI Number.	Not part of UWI number.	Not part of UWI number.	Not part of UWI number.	Not part of UWI number.	Not part of UWI number.
General Notes	Primary online DB record is based on 10 digit UWI. If side tracks exists additional hyperlink appears		Currently updating data management system. This will cause the implementation of UWI-14.	VA began assigning UWI numbers in 2014. These are now based on next number in county series. Historic wells based on the old DGO File Number.	WV is migrating to RBDMS. By 2016 WV will be using the full 14 digit UWI.	
Adherence w/ Standard	1, 2,		1	1		

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