IHS Enerdeq: PRODFit Formations

Updated June 2018: Enerdeq Browser 2018 v5

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IHS Enerdeq Browser Release Notes 2018 v5

June 14, 2018

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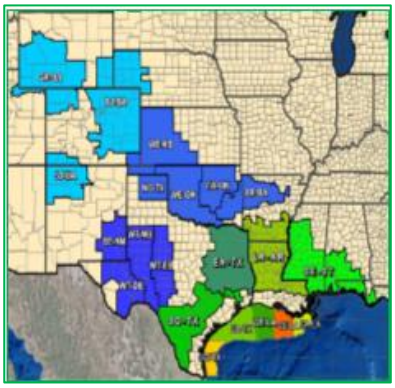
IHS Enerdeq PRODFit Formation - Introduction

IHS Markit has been correlating Geological Formation Tops across the U.S. since 1968. This historical wealth of information allows IHS Markit to leverage considerable insight from mature plays, but more importantly, they provide a deep understanding into the recent explosion of numerous unconventional plays. Over the past few years, IHS Markit has developed a new proprietary process called PRODFit (Producing Formations from Interpreted Tops) which weighs Interpreted Tops control against historical Well and Production data attributes to accurately populate millions of missing Operator-reported data elements and correct millions more.



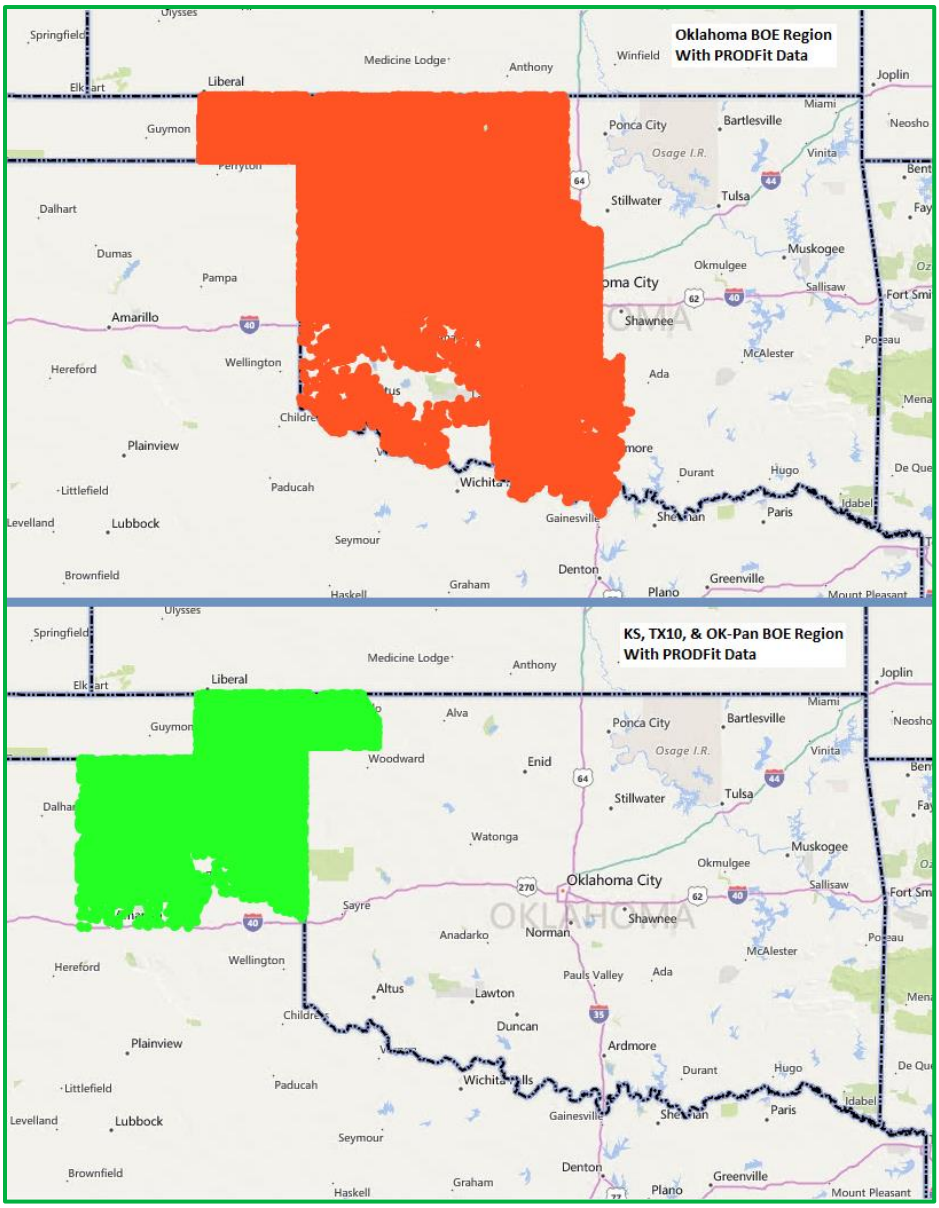
PRODFit Formation Data Attributes

The initial release of PRODFit Formation will include formation data associated with the following data attributes:

- PRODFit Formation at Total Depth
- PRODFit Producing Formation
- PRODFit Formation at the 80 Degree Heel Point
- PRODFit Completion Formation
- PRODFit Formation Cores
- PRODFit Formation Oil Analysis
- PRODFit Formation Gas Analysis
- PRODFit Formation Water Analysis
- PRODFit Formation Perforation
- PRODFit Formation Tests (IP, PT & DST)
- PRODFit Formation Pressure
- PRODFit Formation Tubular
- PRODFit Formation Mud Weights

New for Enerdeq Browser Release 2018 v5

PRODFit Formations in Anadarko Basin has now been released in Enerdeq Browser and Web Services. Customers who are entitled to both Well Data and Interpreted Tops for Oklahoma BOE Region and/or KS, TX10 OK-Panhandle BOE region will be able to see the newly released PRODFit Formations.

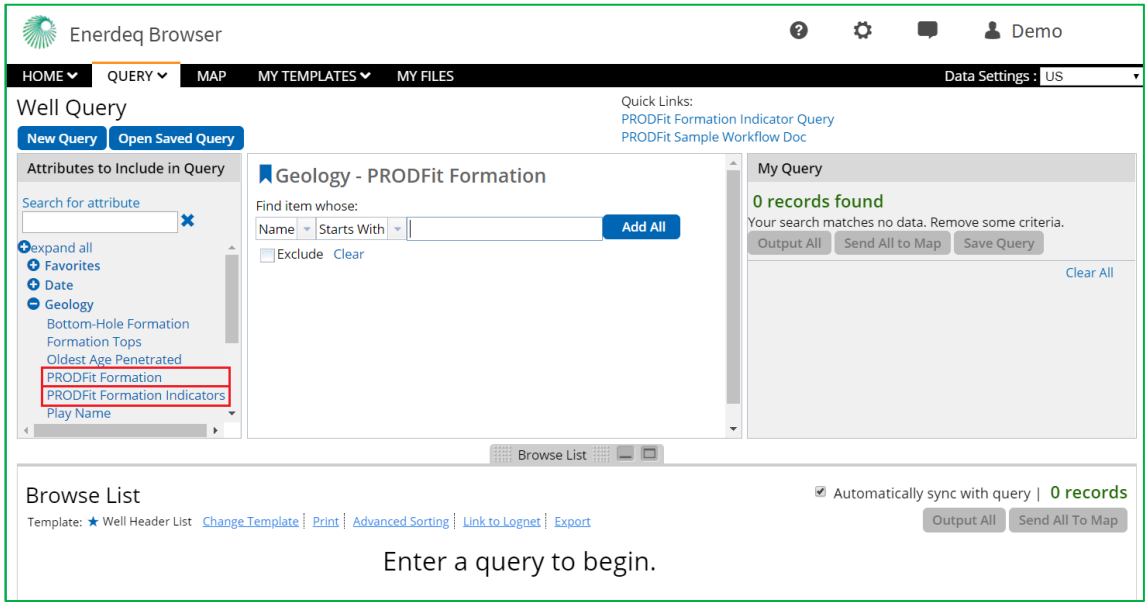


PRODFit Formation Data query

Enerdeq Browser release 2018 v4 the PRODFit Formation Query has been changed. Previously the formation query was limited to formations associated with the 80 Degree Heel Point. Now the PRODFit Formation Query will look across all the PRODFit Formation data elements.

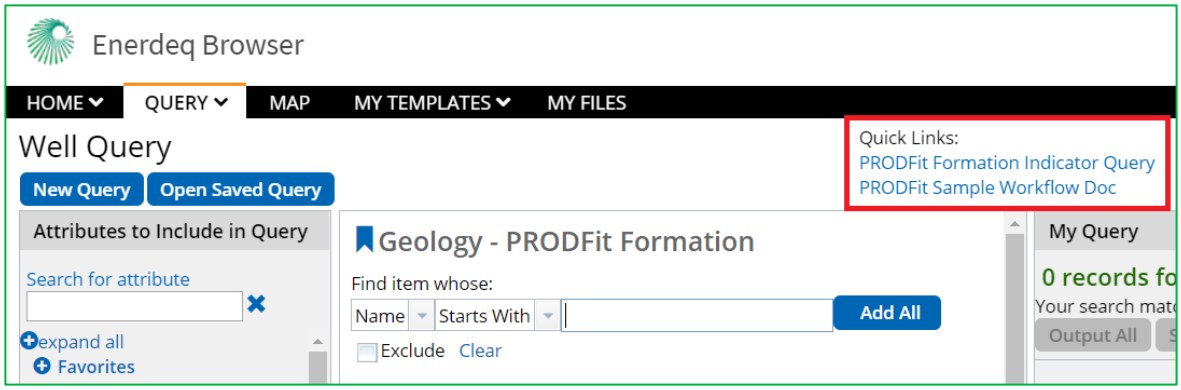
In the Enerdeq Browser, you can find the following PRODFit Formation queries in the Geology subfolder:

- PRODFit Formation Indicator
- PRODFit Formation
- Oldest Age Penetrated



Two new links were added to the **PRODFit Formation Query**

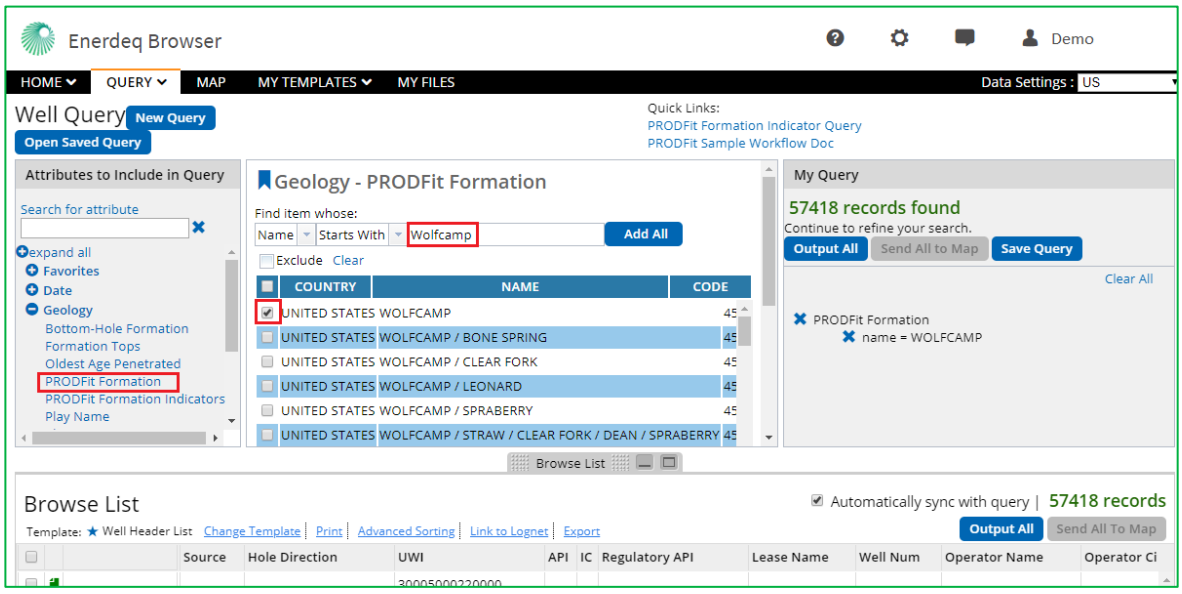
- PRODFIT Formation Indicator Query link
- PRODFit Sample Workflow Doc link ***Updated for V5!***



The PRODFIT Formation Indicator Query link is simply a shortcut to the **PRODFIT Formation Indicator Query**

PRODFit Sample Workflow Doc is a link to this document.

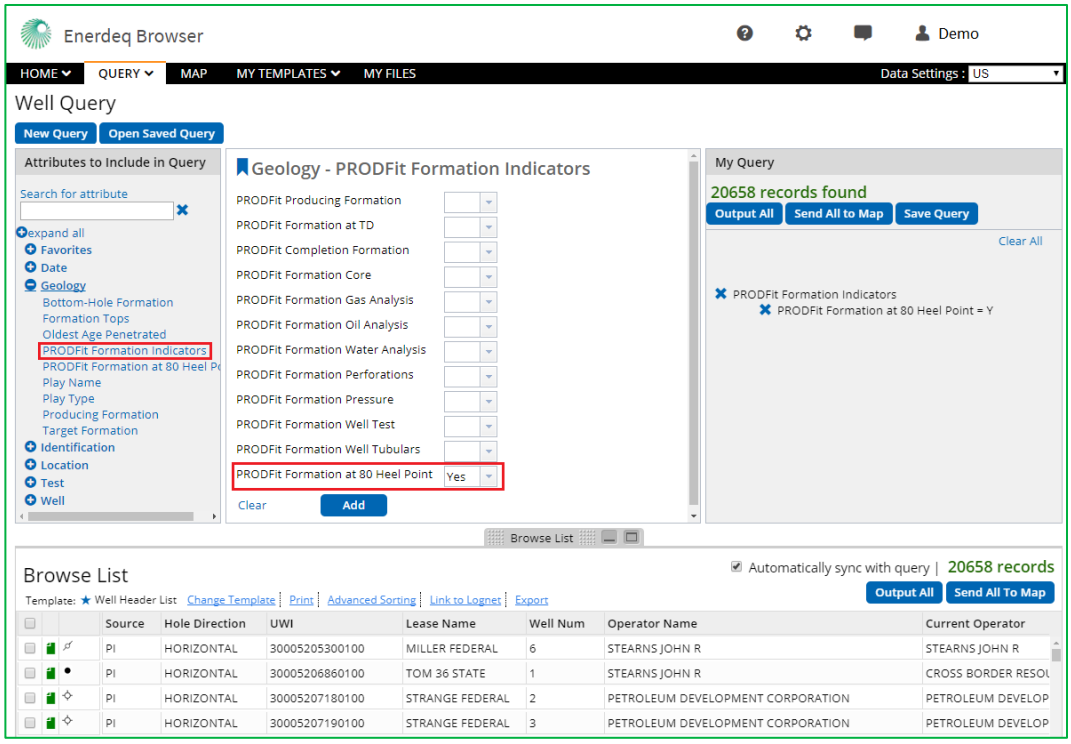
The **PRODFit Formation** allows users to search for formation across all PRODFit data elements.



PRODFit Formation Data Indicator query

The **PRODFit Formation Indicators Query** allows users to search for wells with specific PRODFit data elements.

No changes for release 2018 v5.

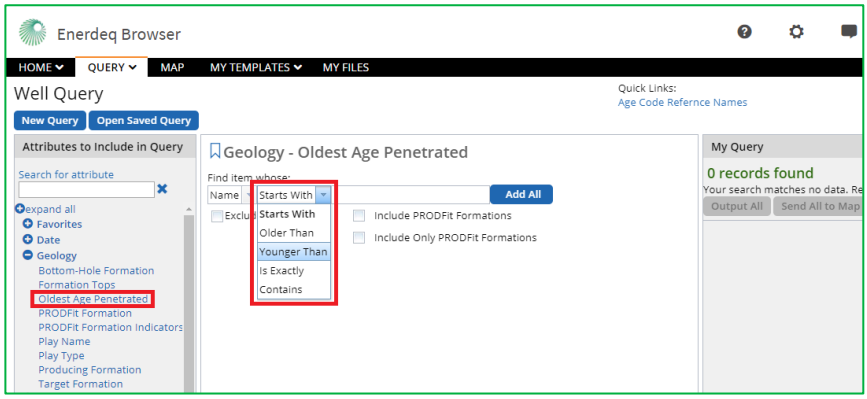


Oldest Age Penetrated query

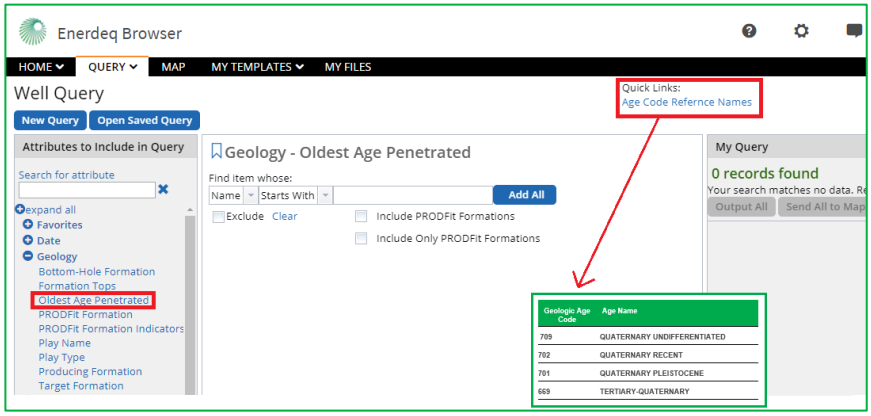
Oldest Age Penetrated query have been updated to allow for only PRODFit formations to be queried. In addition, new qualifiers have been added to help refine search (Older Than & Younger Than). A quick link has been provided that lists IHS Markit Age Names for reference. Sample workflow flow are provided below.

In the Enerdeq Browser, you can find the following Oldest Age Penetrated queries in the Geology subfolder:

- Oldest Age Penetrated



- Age Reference Document



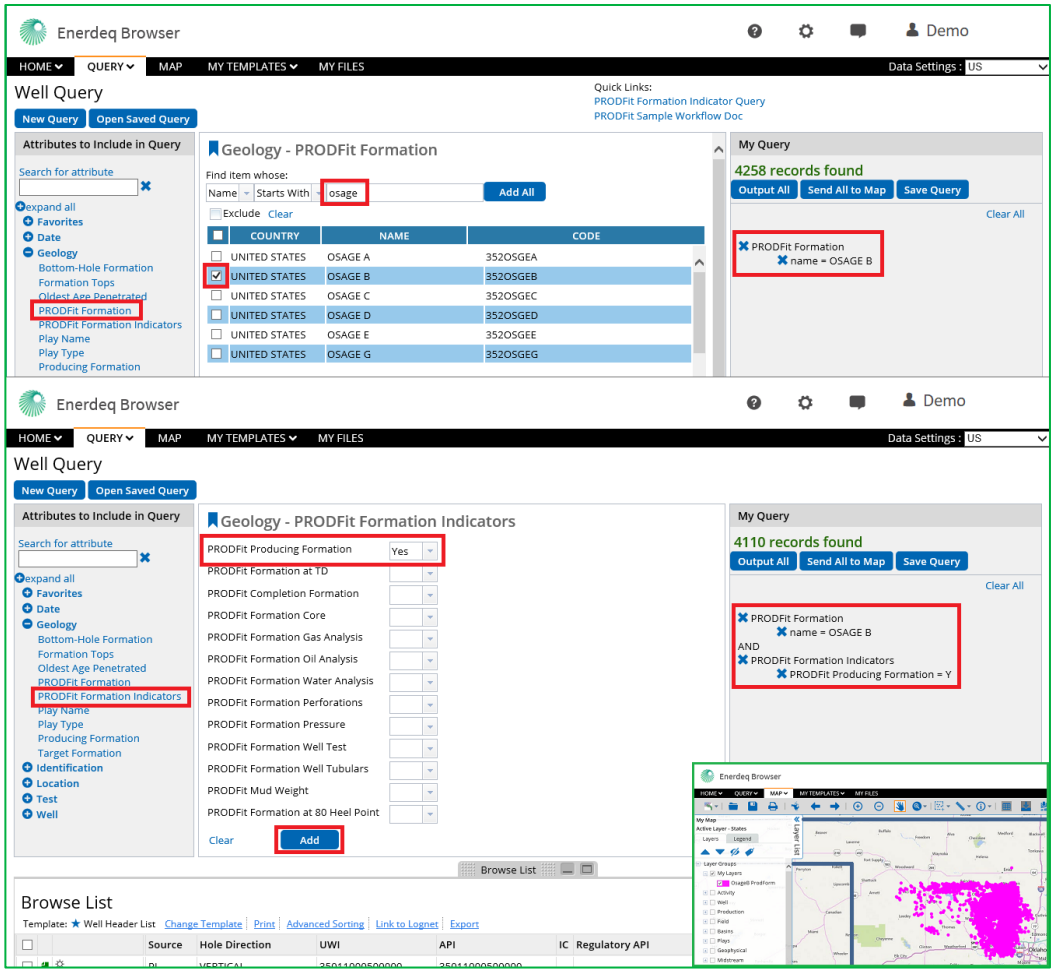
Sample Queries

Queries that leverage the new PRODFit Formations Query

Sample Query 1**:** Querying for specific PRODFit Formation associated with the 80 Degree Heel Point

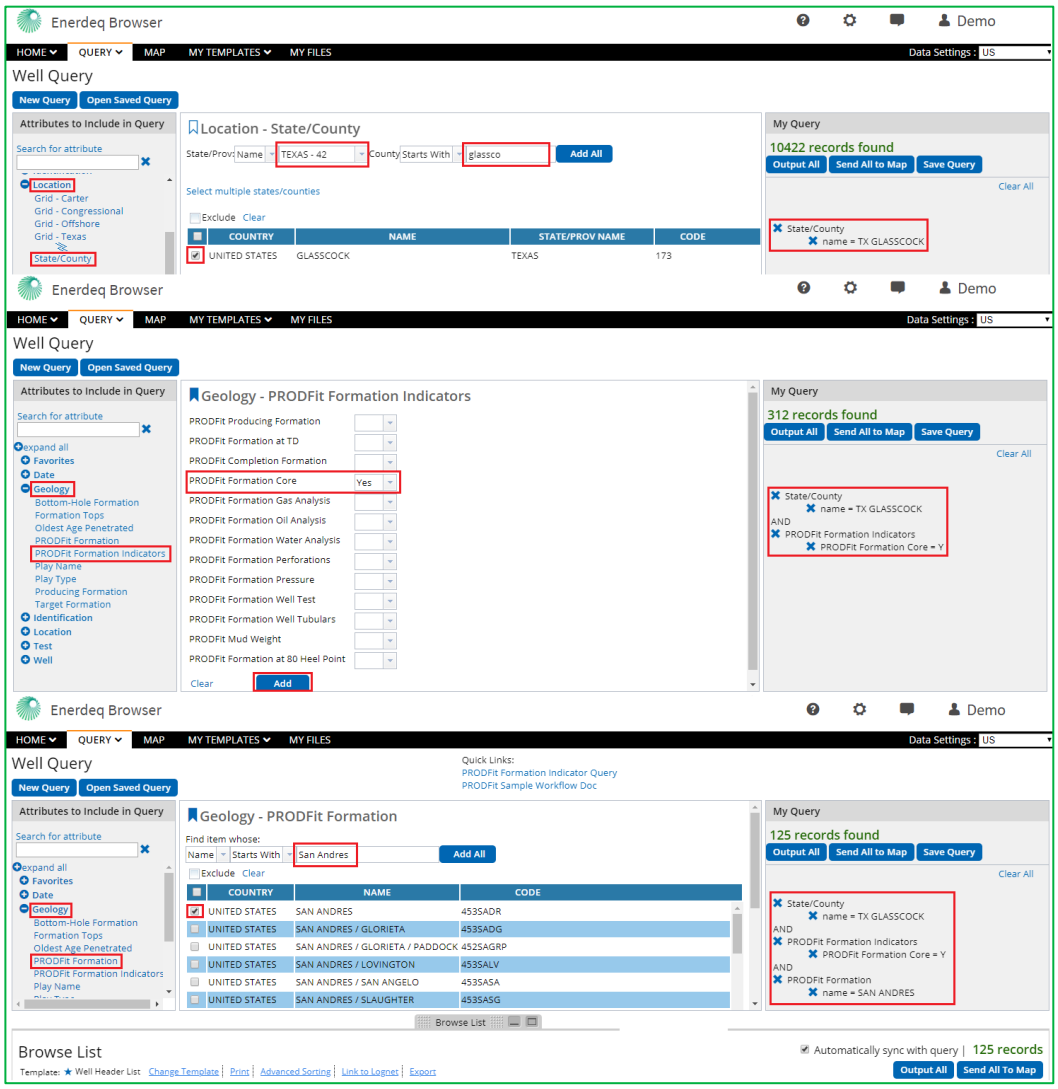
- Geology
  - PRODFit Formation
    - Formation = Osage → check 352OSGEB
  - PRODFit Formation Indicator
    - PRODFit Producing Formation = Yes → Add

The Browse List will display the PRODFit data elements.



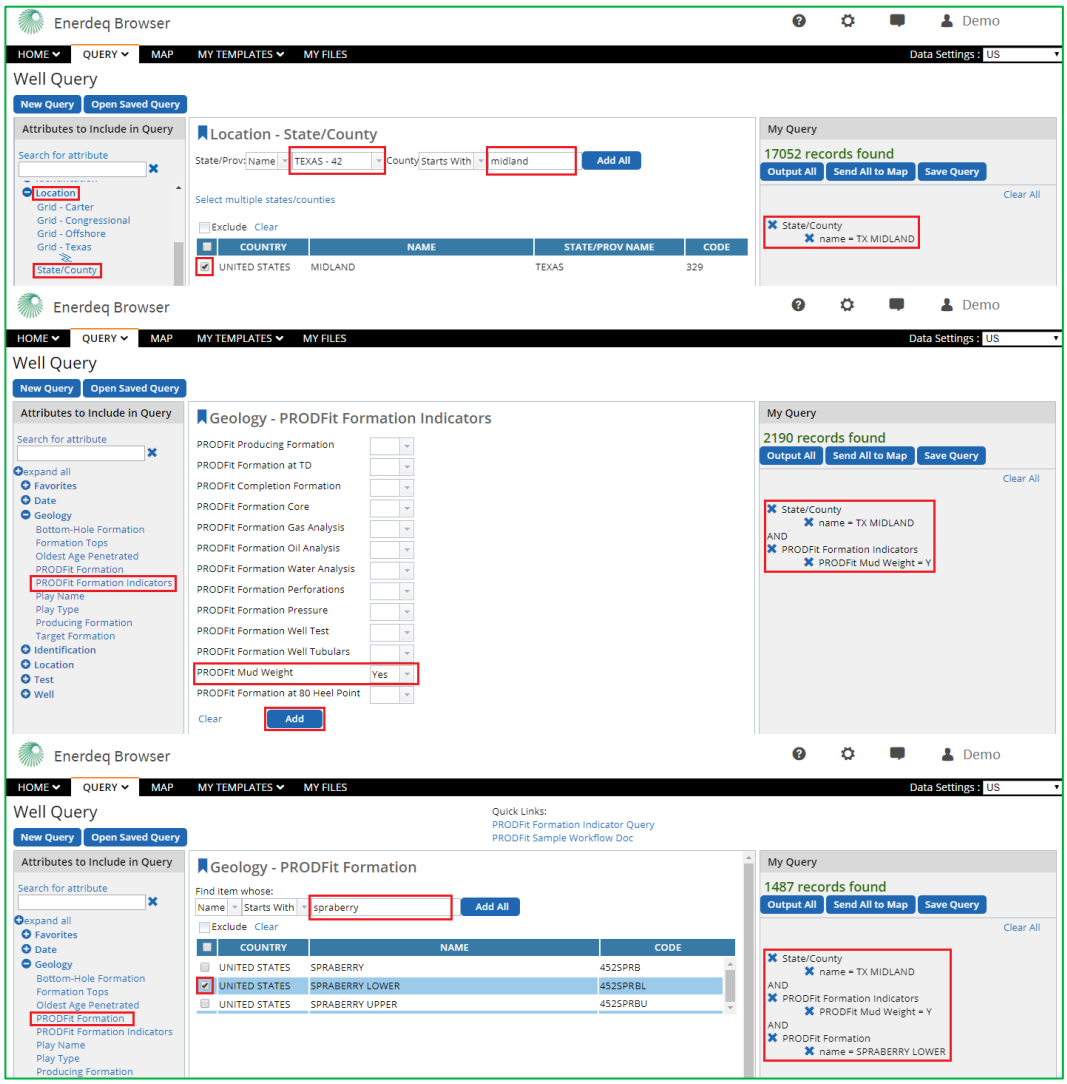
Sample Query 2: Querying for wells with PRODFit Formations associated with Cores

- Location
  - State/County = Texas/Glasscock
- Geology
  - PRODFit Formation Indicator
    - PRODFit Formation Cores = Yes → Add
- Geology
  - PRODFit Formation
    - Formation = San Andres → check 453SADR



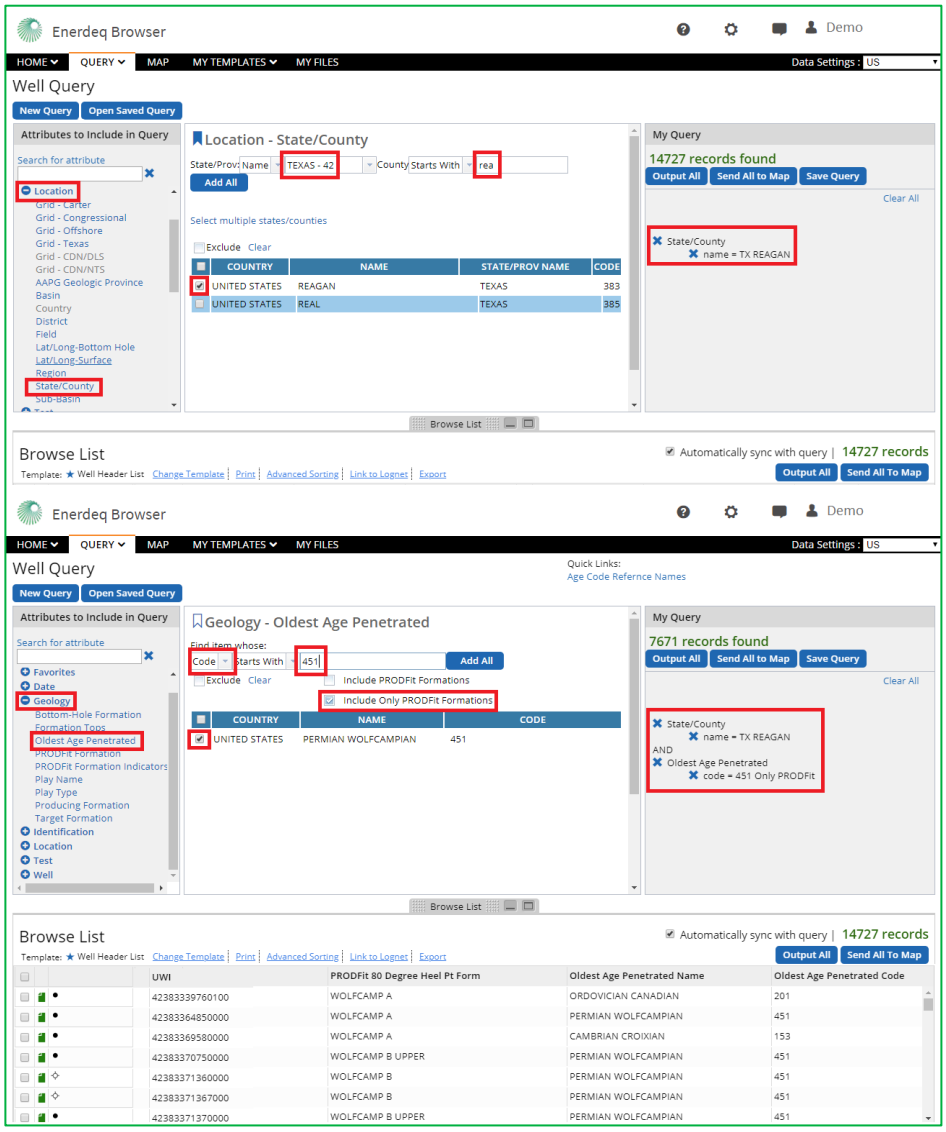
Sample Query 3: Querying for wells with PRODFit Formations associated with Mud Weights

- Location
  - State/County = Texas/Midland
- Geology
  - PRODFit Formation Indicator
    - PRODFit Mud Weights = Yes → Add
- Geology
  - PRODFit Formation
    - Formation = San Andres → check 453SADR



Sample Query 4: Querying for wells using the new features associate with Oldest Age Penetrated

- Location
  - State/County = Texas/Reagan
- Geology
  - Oldest Age Penetrated
    - Include Only PRODFit Formations → Check
    - Change ‘Starts With’ → ‘Older Than’
    - Code = 451 → Add

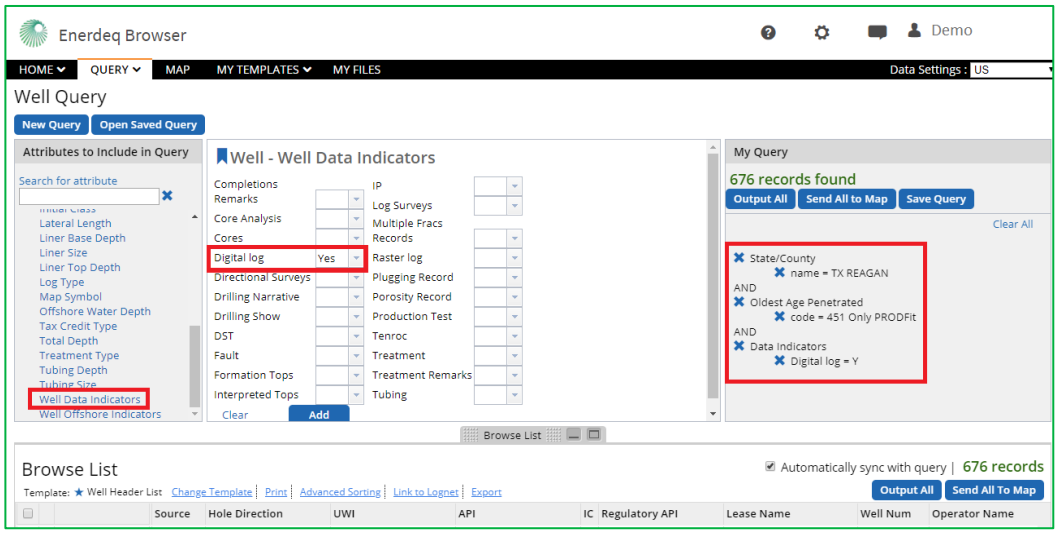


Results of the query will provide a list of wells in Reagan County that are of Permian Wolfcampain Age and older.

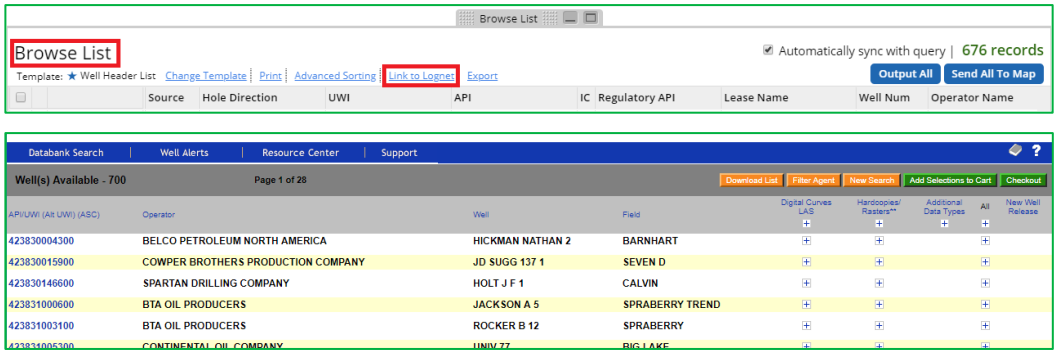
Taking this query one step further:

Sample Query 4b: Add in the following query criteria

- Well
  - Well Data Indicator → Digital Log = Yes → Add



- Browse List
  - Link to Lognet



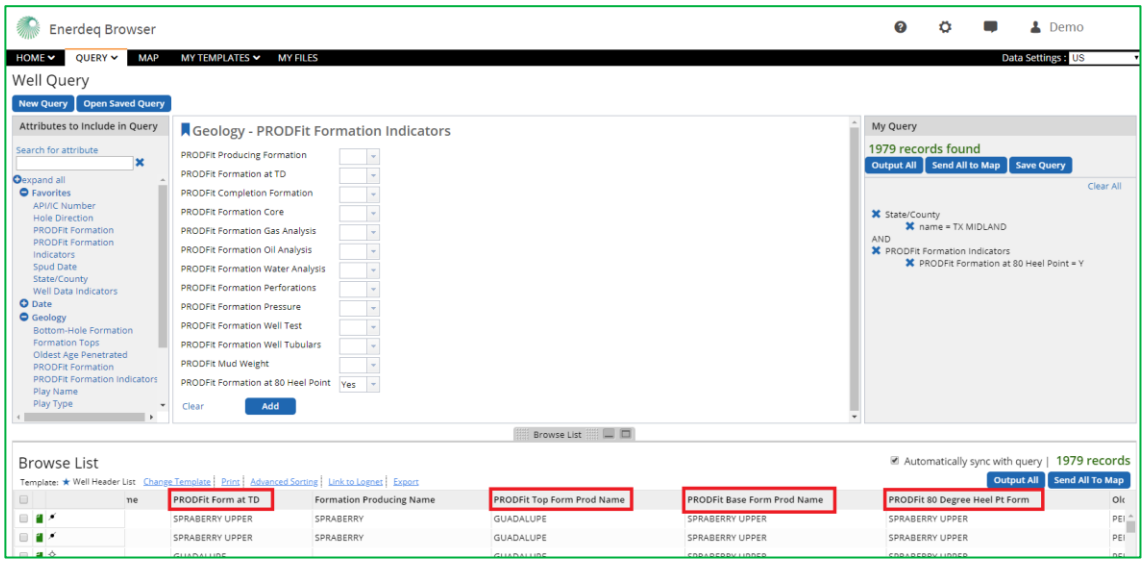
Now you have a listing of all the wells in Reagan County with Digital Logs on wells that penetrated the Wolfcamp and deeper.

PRODFit Formation Data in Enerdeq: Exports & Reports

PRODFit Formation data has been incorporated into a number of Exports and Reports.

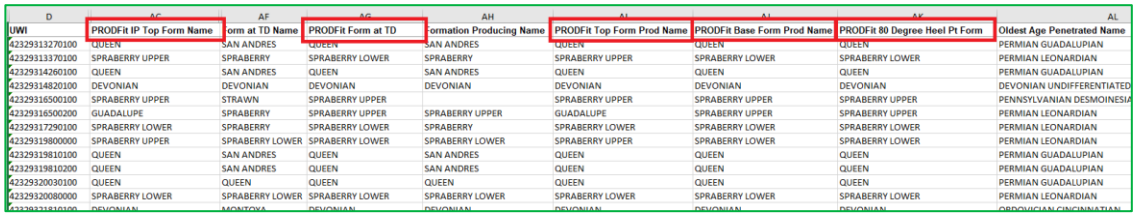
Exports

In the Browse List *Updated!*



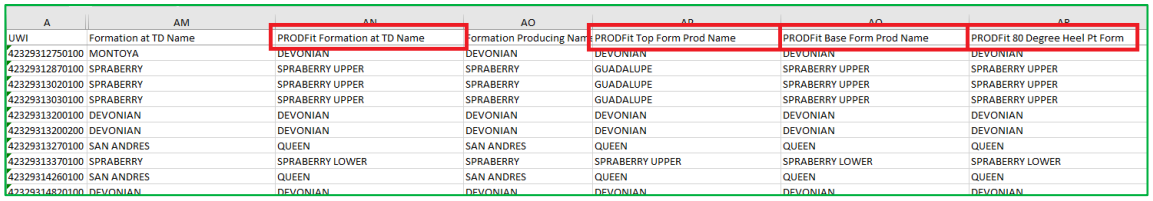
(Some columns have been hidden to allow screen shot to fit)

Excel 2007 export of the Browse List *Updated!*



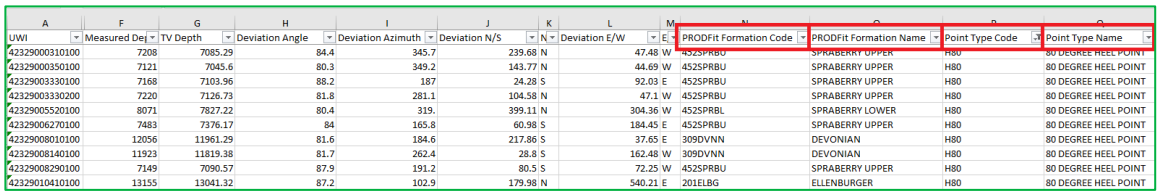
UWI	PRODFit IP Top Form Name	Form at TD Name	PRODFit Form at TD	Formation Producing Name	PRODFit Top Form Prod Name	PRODFit Base Form Prod Name	PRODFit 80 Degree Heel Pt Form	Oldest Age Penetrated Name
42329313270100	QUEEN	SAN ANDRES	QUEEN	SAN ANDRES	QUEEN	QUEEN	QUEEN	PERMIAN GUADALUPIAN
42329313370100	SPRABERRY UPPER	SPRABERRY	SPRABERRY LOWER	SPRABERRY	SPRABERRY UPPER	SPRABERRY LOWER	SPRABERRY LOWER	PERMIAN LEONARDIAN
42329314260100	QUEEN	SAN ANDRES	QUEEN	SAN ANDRES	QUEEN	QUEEN	QUEEN	PERMIAN GUADALUPIAN
42329314820100	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN UNDIFFERENTIATED
42329316500100	SPRABERRY UPPER	STRAWN	SPRABERRY UPPER		SPRABERRY UPPER	SPRABERRY UPPER	SPRABERRY UPPER	PENNSYLVANIAN DESMOINESIA
42329316500200	GUADALUPE	SPRABERRY	SPRABERRY UPPER	SPRABERRY UPPER	GUADALUPE	SPRABERRY UPPER	SPRABERRY UPPER	PERMIAN LEONARDIAN
42329317290100	SPRABERRY LOWER	SPRABERRY	SPRABERRY LOWER	SPRABERRY	SPRABERRY LOWER	SPRABERRY LOWER	SPRABERRY LOWER	PERMIAN LEONARDIAN
42329319800000	SPRABERRY UPPER	SPRABERRY LOWER	SPRABERRY LOWER	SPRABERRY LOWER	SPRABERRY UPPER	SPRABERRY LOWER	SPRABERRY LOWER	PERMIAN LEONARDIAN
42329319810100	QUEEN	SAN ANDRES	QUEEN	SAN ANDRES	QUEEN	QUEEN	QUEEN	PERMIAN GUADALUPIAN
42329319810200	QUEEN	SAN ANDRES	QUEEN	SAN ANDRES	QUEEN	QUEEN	QUEEN	PERMIAN GUADALUPIAN
42329320030100	QUEEN	QUEEN	QUEEN	QUEEN	QUEEN	QUEEN	QUEEN	PERMIAN GUADALUPIAN
42329320080000	SPRABERRY LOWER	SPRABERRY LOWER	SPRABERRY LOWER	SPRABERRY LOWER	SPRABERRY LOWER	SPRABERRY LOWER	SPRABERRY LOWER	PERMIAN LEONARDIAN

Well One Line *Updated!*



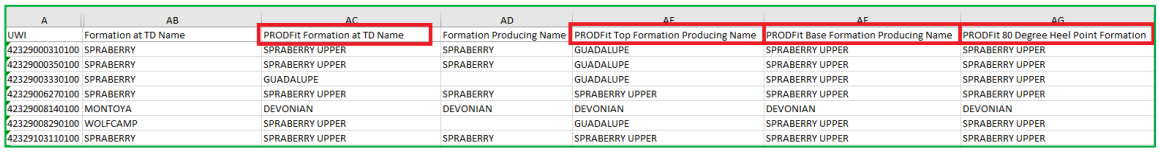
A	AM	AN	AO	AP	AQ	AR
UWI	Formation at TD Name	PRODFit Formation at TD Name	Formation Producing Name	PRODFit Top Form Prod Name	PRODFit Base Form Prod Name	PRODFit 80 Degree Heel Pt Form
42329312750100	MONTOYA	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN
42329312870100	SPRABERRY	SPRABERRY UPPER	SPRABERRY	GUADALUPE	SPRABERRY UPPER	SPRABERRY UPPER
42329313020100	SPRABERRY	SPRABERRY UPPER	SPRABERRY	GUADALUPE	SPRABERRY UPPER	SPRABERRY UPPER
42329313030100	SPRABERRY	SPRABERRY UPPER	SPRABERRY	GUADALUPE	SPRABERRY UPPER	SPRABERRY UPPER
42329313200100	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN
42329313200200	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN
42329313270100	SAN ANDRES	QUEEN	SAN ANDRES	QUEEN	QUEEN	QUEEN
42329313370100	SPRABERRY	SPRABERRY LOWER	SPRABERRY	SPRABERRY UPPER	SPRABERRY LOWER	SPRABERRY LOWER
42329314260100	SAN ANDRES	QUEEN	SAN ANDRES	QUEEN	QUEEN	QUEEN
42329314820100	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN

Directional Survey (filtered on the rows with H80 formation) *Updated!*



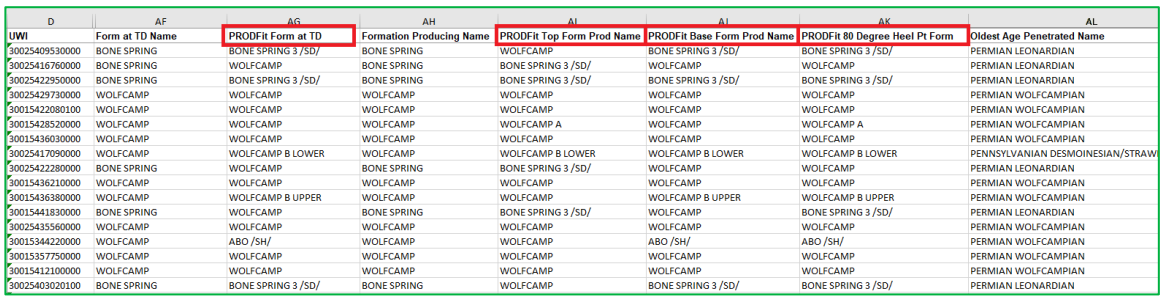
A	F	G	H	I	J	K	L	M	N	O	P	Q
UWI	Measured Dep	TV Depth	Deviation Angle	Deviation Azimuth	Deviation N/S	N	Deviation E/W	E	PRODFit Formation Code	PRODFit Formation Name	Point Type Code	Point Type Name
42329000310100	7208	7085.29	84.4	345.7	239.68	N	47.48	W	452SPRBU	SPRABERRY UPPER	H80	80 DEGREE HEEL POINT
42329000350100	7121	7045.6	80.3	349.2	143.77	N	44.69	W	452SPRBU	SPRABERRY UPPER	H80	80 DEGREE HEEL POINT
42329003330100	7168	7103.96	88.2	187	24.28	S	92.03	E	452SPRBU	SPRABERRY UPPER	H80	80 DEGREE HEEL POINT
42329003330200	7220	7126.73	81.8	281.1	104.58	N	47.1	W	452SPRBU	SPRABERRY UPPER	H80	80 DEGREE HEEL POINT
42329005520100	8071	7827.22	80.4	319.	399.11	N	304.36	W	452SPRBL	SPRABERRY LOWER	H80	80 DEGREE HEEL POINT
42329006270100	7483	7376.17	84	165.8	60.98	S	184.45	E	452SPRBU	SPRABERRY UPPER	H80	80 DEGREE HEEL POINT
42329008010100	12056	11961.29	81.6	184.6	217.86	S	37.65	E	309DVNN	DEVONIAN	H80	80 DEGREE HEEL POINT
42329008140100	11923	11819.38	81.7	262.4	28.8	S	162.48	W	309DVNN	DEVONIAN	H80	80 DEGREE HEEL POINT
42329008290100	7149	7090.57	87.9	191.2	80.5	S	72.25	W	452SPRBU	SPRABERRY UPPER	H80	80 DEGREE HEEL POINT
42329010410100	13155	13041.32	87.2	102.9	179.98	N	540.21	E	201ELBG	ELLENBURGER	H80	80 DEGREE HEEL POINT

Well Completion *Updated!*



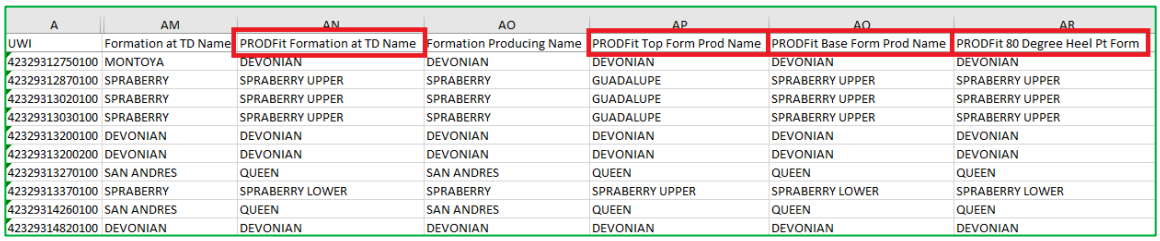
A	AB	AC	AD	AE	AF	AG
UWI	Formation at TD Name	PRODFit Formation at TD Name	Formation Producing Name	PRODFit Top Formation Producing Name	PRODFit Base Formation Producing Name	PRODFit 80 Degree Heel Point Formation
42329000310100	SPRABERRY	SPRABERRY UPPER	SPRABERRY	GUADALUPE	SPRABERRY UPPER	SPRABERRY UPPER
42329000350100	SPRABERRY	SPRABERRY UPPER	SPRABERRY	GUADALUPE	SPRABERRY UPPER	SPRABERRY UPPER
42329003330100	SPRABERRY	GUADALUPE		GUADALUPE	SPRABERRY UPPER	SPRABERRY UPPER
42329006270100	SPRABERRY	SPRABERRY UPPER	SPRABERRY	SPRABERRY UPPER	SPRABERRY UPPER	SPRABERRY UPPER
42329008140100	MONTOYA	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN
42329008290100	WOLFCAMP	SPRABERRY UPPER		GUADALUPE	SPRABERRY UPPER	SPRABERRY UPPER
42329103110100	SPRABERRY	SPRABERRY UPPER	SPRABERRY	SPRABERRY UPPER	SPRABERRY UPPER	SPRABERRY UPPER

Well Header List *Updated!*



D	AF	AG	AH	AI	AJ	AK	AL
UWI	Form at TD Name	PRODFit Form at TD	Formation Producing Name	PRODFit Top Form Prod Name	PRODFit Base Form Prod Name	PRODFit 80 Degree Heel Pt Form	Oldest Age Penetrated Name
30025409530000	BONE SPRING	BONE SPRING 3 /SD/	BONE SPRING	WOLFCAMP	BONE SPRING 3 /SD/	BONE SPRING 3 /SD/	PERMIAN LEONARDIAN
30025416760000	BONE SPRING	WOLFCAMP	BONE SPRING	BONE SPRING 3 /SD/	WOLFCAMP	WOLFCAMP	PERMIAN LEONARDIAN
30025422950000	BONE SPRING	BONE SPRING 3 /SD/	BONE SPRING	BONE SPRING 3 /SD/	BONE SPRING 3 /SD/	BONE SPRING 3 /SD/	PERMIAN LEONARDIAN
30025429730000	WOLFCAMP	WOLFCAMP	WOLFCAMP	WOLFCAMP	WOLFCAMP	WOLFCAMP	PERMIAN WOLFCAMPIAN
30015422080100	WOLFCAMP	WOLFCAMP	WOLFCAMP	WOLFCAMP	WOLFCAMP	WOLFCAMP	PERMIAN WOLFCAMPIAN
30015428520000	WOLFCAMP	WOLFCAMP	WOLFCAMP	WOLFCAMP A	WOLFCAMP	WOLFCAMP A	PERMIAN WOLFCAMPIAN
30015436030000	WOLFCAMP	WOLFCAMP	WOLFCAMP	WOLFCAMP	WOLFCAMP	WOLFCAMP	PERMIAN WOLFCAMPIAN
30025417090000	WOLFCAMP	WOLFCAMP B LOWER	WOLFCAMP	WOLFCAMP B LOWER	WOLFCAMP B LOWER	WOLFCAMP B LOWER	PENNSYLVANIAN DESMOINESIAN/STRAW
30025422280000	BONE SPRING	WOLFCAMP	BONE SPRING	BONE SPRING 3 /SD/	WOLFCAMP	WOLFCAMP	PERMIAN LEONARDIAN
30015436210000	WOLFCAMP	WOLFCAMP	WOLFCAMP	WOLFCAMP	WOLFCAMP	WOLFCAMP	PERMIAN WOLFCAMPIAN
30015436380000	WOLFCAMP	WOLFCAMP B UPPER	WOLFCAMP	WOLFCAMP	WOLFCAMP B UPPER	WOLFCAMP B UPPER	PERMIAN WOLFCAMPIAN
30015441830000	BONE SPRING	WOLFCAMP	BONE SPRING	BONE SPRING 3 /SD/	WOLFCAMP	BONE SPRING 3 /SD/	PERMIAN LEONARDIAN
30025435560000	WOLFCAMP	WOLFCAMP	WOLFCAMP	WOLFCAMP	WOLFCAMP	WOLFCAMP	PERMIAN WOLFCAMPIAN
30015344220000	WOLFCAMP	ABO /SH/	WOLFCAMP	WOLFCAMP	ABO /SH/	ABO /SH/	PERMIAN WOLFCAMPIAN
30015357750000	WOLFCAMP	WOLFCAMP	WOLFCAMP	WOLFCAMP	WOLFCAMP	WOLFCAMP	PERMIAN WOLFCAMPIAN
30015412100000	WOLFCAMP	WOLFCAMP	WOLFCAMP	WOLFCAMP	WOLFCAMP	WOLFCAMP	PERMIAN WOLFCAMPIAN
30025403020100	BONE SPRING	BONE SPRING 3 /SD/	BONE SPRING	WOLFCAMP	BONE SPRING 3 /SD/	BONE SPRING 3 /SD/	PERMIAN LEONARDIAN

Well Workbook – Header tab *Updated!*



A	AM	AN	AO	AP	AQ	AR
UWI	Formation at TD Name	PRODFit Formation at TD Name	Formation Producing Name	PRODFit Top Form Prod Name	PRODFit Base Form Prod Name	PRODFit 80 Degree Heel Pt Form
42329312750100	MONTOYA	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN
42329312870100	SPRABERRY	SPRABERRY UPPER	SPRABERRY	GUADALUPE	SPRABERRY UPPER	SPRABERRY UPPER
42329313020100	SPRABERRY	SPRABERRY UPPER	SPRABERRY	GUADALUPE	SPRABERRY UPPER	SPRABERRY UPPER
42329313030100	SPRABERRY	SPRABERRY UPPER	SPRABERRY	GUADALUPE	SPRABERRY UPPER	SPRABERRY UPPER
42329313200100	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN
42329313200200	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN
42329313270100	SAN ANDRES	QUEEN	SAN ANDRES	QUEEN	QUEEN	QUEEN
42329313370100	SPRABERRY	SPRABERRY LOWER	SPRABERRY	SPRABERRY UPPER	SPRABERRY LOWER	SPRABERRY LOWER
42329314260100	SAN ANDRES	QUEEN	SAN ANDRES	QUEEN	QUEEN	QUEEN
42329314820100	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN

Well Workbook – Test tab

A	B	C	D	E	F	G	H	I	J
UWI	Source	Type	Number	Formation Top Name	Formation Base Nam	Depth Top	Depth Base	PRODFit Formation Top Name	PRODFit Formation Base Name
42329000310100	PI	IP	001	SPRABERRY	SPRABERRY	6835	7975	GUADALUPE	SPRABERRY UPPER
42329000310100	PI	PT	001	SPRABERRY	SPRABERRY	7054	7163	GUADALUPE	SPRABERRY UPPER
42329000310100	PI	PT	002	SPRABERRY	SPRABERRY	6835	7975	GUADALUPE	SPRABERRY UPPER
42329000310100	PI	PT	003	SPRABERRY	SPRABERRY	6835	7975	GUADALUPE	SPRABERRY UPPER
42329000350100	PI	IP	001	SPRABERRY	SPRABERRY	6980	8165	GUADALUPE	SPRABERRY UPPER
42329000350100	PI	PT	001	SPRABERRY	SPRABERRY	7000	7116	GUADALUPE	SPRABERRY UPPER
42329003330100	PI	PT	001	SPRABERRY	SPRABERRY	7093	7310	GUADALUPE	SPRABERRY UPPER
42329005520100	PI	IP	001	JO MILL	JO MILL	8100	10452	SPRABERRY LOWER	SPRABERRY LOWER
42329006270100	PI	IP	001	SPRABERRY	SPRABERRY	7075	8665	GUADALUPE	SPRABERRY UPPER
42329006270100	PI	PT	001	SPRABERRY	SPRABERRY	8710	9071	SPRABERRY UPPER	SPRABERRY UPPER
42329008010100	PI	IP	001	DEVONIAN	DEVONIAN	12056	16350	DEVONIAN	DEVONIAN
42329008140100	PI	IP	001	DEVONIAN	DEVONIAN	11650	13838	DEVONIAN	DEVONIAN

Well Workbook – Test Perforation tab ***New!***

A	B	C	D	E	F	G	H	I	J	K
UWI	Source	Test Type	Test Number	Numb	Depth Top	Depth Base	Top Formation Name	Base Formation Name	PRODFit Top Formation	PRODFit Base Formation
42329006270100	PI	PT	001	1	8710	9071	SPRABERRY	SPRABERRY	SPRABERRY UPPER	SPRABERRY UPPER
42329008010100	PI	IP	001	1	12056	16350	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN
42329008140100	PI	IP	001	1	11650	13838	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN
42329008140100	PI	PT	001	1	12399	12436	FUSSELMAN	FUSSELMAN	DEVONIAN	DEVONIAN
42329008290100	PI	PT	001	1	7041	7295	SPRABERRY	SPRABERRY	GUADALUPE	SPRABERRY UPPER
42329010410100	PI	IP	001	1	12900	13403	ELLENBURGER	ELLENBURGER	ELLENBURGER	ELLENBURGER
42329010560100	PI	IP	001	1	11771	14023	DEVONIAN	DEVONIAN	DEVONIAN	FUSSELMAN
42329014160100	PI	IP	001	1	11990	14703	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN
42329014160100	PI	PT	001	1	10052	10087	STRAWN	STRAWN	STRAWN	ATOKA
42329014160100	PI	PT	001	2	12050	12085	DEVONIAN	DEVONIAN	DEVONIAN	DEVONIAN
42329015990100	PI	IP	001	1	11275	13691	DEVONIAN	DEVONIAN	MORROW	MISSISSIPPIAN LOWER

Well Workbook – DST tab

A	B	C	D	E	F	G	H	I
UWI	Source	Test Type	Test Number	Formation Top Name	Depth Top	Depth Base	PRODFit Top Formation	PRODFit Base Formation
42173313620000	PI	DST	001	PENNSYLVANIAN	8970	9025	WOLFCAMP C	WOLFCAMP C
42173313620000	PI	DST	002	STRAWN	10058	10125	WOLFCAMP D LOWER	WOLFCAMP D LOWER
42173313620000	PI	DST	003	FUSSELMAN	11040	11122	SILURIAN	FUSSELMAN
42173317320000	PI	DST	001	STRAWN	9347	9390	STRAWN	STRAWN
42173317320000	PI	DST	002	FUSSELMAN	9895	9935	SILURIAN	FUSSELMAN
42173317320000	PI	DST	003	FUSSELMAN	9935	9993	FUSSELMAN	FUSSELMAN
42329006550000	PI	DST	001		5486	5536	GUADALUPE	GUADALUPE
42329006550000	PI	DST	002		5760	5850	GUADALUPE	GUADALUPE
42329006550000	PI	DST	003		8263	8413	DEAN	DEAN
42329006550000	PI	DST	004		9250	9290	WOLFCAMP C	WOLFCAMP C

Well Workbook – DST Pipe Recovery

A	B	C	D	E	F	G	H
UWI	Source	Test Type	Test Number	Formation Top Name	Formation Base Name	PRODFit Top Formation	PRODFit Base Formation
30005003600000	PI	DST	004			MISSISSIPPIAN UPPER	MISSISSIPPIAN UPPER
30005003710100	PI	DST	001	MISSISSIPPIAN	MISSISSIPPIAN	STRAWN	ATOKA
30005003710100	PI	DST	001	MISSISSIPPIAN	MISSISSIPPIAN	STRAWN	ATOKA
30005003710100	PI	DST	001	MISSISSIPPIAN	MISSISSIPPIAN	STRAWN	ATOKA
30005003770000	PI	DST	001			SAN ANDRES	SAN ANDRES
30005003770000	PI	DST	002			SAN ANDRES	SAN ANDRES
30005003770000	PI	DST	003			SAN ANDRES	SAN ANDRES
30005003770000	PI	DST	003			SAN ANDRES	SAN ANDRES
30005003770000	PI	DST	004			ABO /SH/	ABO /SH/
30005003770000	PI	DST	005			WOLFCAMP	WOLFCAMP
30005003770000	PI	DST	006			CISCO	CISCO
30005003770000	PI	DST	007			CISCO	CISCO
30005003770000	PI	DST	008			ATOKA BANK LIMESTONE	MORROW LOWER
30005003770000	PI	DST	009			MISSISSIPPIAN LOWER	ELLENBURGER
30005003770000	PI	DST	010			ELLENBURGER	SILURIAN

Well Workbook – DST Material to Surface tab

A	B	C	D	E	F	G	H	I	J	K
UWI	Source	Test Type	Test Number	Number	Amount	Units	Type	Time to Surface	PRODFit Top Formation	PRODFit Base Formation
30005001070000	PI	DST	001	2			GAS	15	SAN ANDRES	SAN ANDRES
30005001160000	PI	DST	006	2	1954	MCFD	GAS	3	CISCO	CISCO
30005001160000	PI	DST	010	2			GAS	70	CISCO	CISCO
30005001720000	PI	DST	001	2	3000	MCFD	GAS	1	CISCO	CISCO
30005001720000	PI	DST	002	2	180	MCFD	GAS	4	CISCO	CISCO
30005001720000	PI	DST	005	2			GAS	28	CISCO	CISCO
30005001780000	PI	DST	001	2			GAS	3	SAN ANDRES	SAN ANDRES
30005002050000	PI	DST	001	2			GAS	54	ABO /SH/	ABO /SH/
30005002050000	PI	DST	003	2	2880	MCFD	GAS	3	CISCO	CISCO

Well Workbook – DST Narrative tab

A	B	C	D	E	F	G	H
UWI	Source	Test Type	Test Number	Number	Text	PRODFit Top Formation	PRODFit Base Formation
30005003710100	PI	DST	001	1	SPL REC .504 CFT GAS	STRAWN	STRAWN
30005209810000	PI	DST	001	1	FSIP: HAD LEAK IN DP DURING FSI	WOLFCAMP	WOLFCAMP
30005209810000	PI	DST	001	2	SPLCHAM: REC MUD	WOLFCAMP	WOLFCAMP
30005209810000	PI	DST	003	1	SPLCHAM:3.52 CFT GAS	ATOKA	ATOKA
30005210200000	PI	DST	001	1	SPLCHAM: REC .479 CFT GAS	SAN ANDRES	SAN ANDRES
30005210280000	PI	DST	003	1	SPL CHAM REC 1.68 CFT GAS	ABO /SH/	ABO /SH/
30005210280000	PI	DST	003	2	REC 643 FT MUD W/TR OIL	ABO /SH/	ABO /SH/
30005210280000	PI	DST	004	1	SPL CHAM REC .25 CFT GAS	WOLFCAMP	WOLFCAMP
30005210280000	PI	DST	004	2	BHT 194 @ 9798	WOLFCAMP	WOLFCAMP
30005210280000	PI	DST	004	3	REC 341 FT FCM W/TR OIL	WOLFCAMP	WOLFCAMP
30005210280000	PI	DST	005	1	SPL CHAM REC 2420 CC MUD W/TR OIL	CISCO	CISCO
30005210620000	PI	DST	001	1	SPL REC .75 CFT GAS	ABO /SH/	ABO /SH/

Well Workbook – Cores tab

A	C	D	E	F	G	H
UWI	Number	Formation Name	Depth Top	Depth Base	PRODFit Top Formation	PRODFit Base Formation
30005000250000	001		738	749	SAN ANDRES	SAN ANDRES
30005000250000	002		749	774	SAN ANDRES	SAN ANDRES
30005000250000	003		774	798	SAN ANDRES	SAN ANDRES
30005000250000	004		1690	1715	GLORIETA	GLORIETA
30005000250000	005		1825	1841	GLORIETA	GLORIETA
30005000250000	006		2019	2048	GLORIETA	GLORIETA
30005000250000	007		2048	2076	GLORIETA	GLORIETA
30005000250000	008		2076	2093	GLORIETA	GLORIETA
30005000250000	009		2164	2194	GLORIETA	GLORIETA
30005000260000	001		1210	1237	SAN ANDRES	SAN ANDRES
30005000260000	002		2030	2064	GLORIETA	GLORIETA
30005000290000	001		780	790	SAN ANDRES	SAN ANDRES
30005000290000	002		790	800	SAN ANDRES	SAN ANDRES
30005000290000	003		800	809	SAN ANDRES	SAN ANDRES
30005000290000	004		817	825	SAN ANDRES	SAN ANDRES
30005000290000	005		891	901	SAN ANDRES	SAN ANDRES
30005000310000	001		790	820	SAN ANDRES	SAN ANDRES
30005000310000	002		820	844	SAN ANDRES	SAN ANDRES
30005000310000	003		844	871	SAN ANDRES	SAN ANDRES

Well Workbook – Core Description tab

A	C	E	F	G	H	I
UWI	Core Number	Depth Top	Depth Base	Formation	PRODFit Top Formation	PRODFit Base Formation
30005001140000	001	7995	8001		SILURIAN	SILURIAN
30005001140000	002	8088	8091		ELLENBURGER	ELLENBURGER
30005001160000	001	6810	6821		CISCO	CISCO
30005001160000	002	7719	7739		MISSISSIPPIAN LOWER	MISSISSIPPIAN LOWER
30005001160000	003	7739	7746		MISSISSIPPIAN LOWER	MISSISSIPPIAN LOWER
30005001160000	004	7746	7763		MISSISSIPPIAN LOWER	MISSISSIPPIAN LOWER
30005001160000	005	8381	8389		MISSISSIPPIAN LOWER	MISSISSIPPIAN LOWER
30005001230000	001	1484	1495		SAN ANDRES	SAN ANDRES
30005001230000	002	1495	1514		SAN ANDRES	SAN ANDRES
30005001230000	003	2646	2650		GLORIETA	GLORIETA
30005001230000	004	6008	6009		CISCO	CISCO
30005001230000	005	6009	6014		CISCO	CISCO
30005001230000	006	6022	6024		CISCO	CISCO
30005001230000	007	6051	6063		CISCO	CISCO
30005001230000	008	6126	6129		CISCO	ATOKA

Well Workbook – Core Narrative

A	C	D	E	F	G	I
UWI	Core Number	Number	Formation	PRODFit Top Formation	PRODFit Base Formation	Text
30005211360000	002	1	CANYON	BOUGH C	BOUGH C	4148-4179 (San Andres) Sidev
30005211360000	002	2	CANYON	BOUGH C	BOUGH C	shot & rec 5. 4145: Dol, frac, no fluor
30005211360000	002	3	CANYON	BOUGH C	BOUGH C	2.2%, oil sat 1.5%, SW 76.0%, Gas 1 u
30005211360000	002	4	CANYON	BOUGH C	BOUGH C	fluor, perm 0.13 md, por 2.2%, oil sa
30005211360000	002	5	CANYON	BOUGH C	BOUGH C	4168: Dol, sli calc, pp vug, 2% yel flu
30005211360000	002	6	CANYON	BOUGH C	BOUGH C	md, por 3.1%, oil sat 8.7%, SW 66.1%
30005211360000	002	7	CANYON	BOUGH C	BOUGH C	calc, pp vug, 15% yel fluor, perm 1.0
30005211360000	002	8	CANYON	BOUGH C	BOUGH C	75.9%, Gas 6 units; 4179: Dol, sli calc
30005211360000	002	9	CANYON	BOUGH C	BOUGH C	fluor, perm 2.49 md, por 14.0%, oil s
30005211360000	003	1	FUSSELMAN	MISSISSIPPIAN UPPER	MISSISSIPPIAN UPPER	9000-9008 (Canyon) Sidew
30005211360000	003	2	FUSSELMAN	MISSISSIPPIAN UPPER	MISSISSIPPIAN UPPER	shot & rec 2. 9000: Ls, vug, frac, 35%
30005211360000	003	3	FUSSELMAN	MISSISSIPPIAN UPPER	MISSISSIPPIAN UPPER	por 8.5%, oil sat 12.8%, SW 64.1%, Ga
30005211360000	003	4	FUSSELMAN	MISSISSIPPIAN UPPER	MISSISSIPPIAN UPPER	yel fluor, perm 4.38 md, por 10.0%,

Well Workbook – Mud tab

A	B	C	D	E	F	G
UWI	Source	Weight	Units	Depth	PRODFit Formation Code	PRODFit Formation Name
42329319800000	PI	10	PPG	3670	453SVRV	SEVEN RIVERS
42329319800000	PI	8.4	PPG	9453	452SPRBL	SPRABERRY LOWER
42329320080000	PI	8.4	PPG	10048	452SPRBL	SPRABERRY LOWER
42329332720000	PI	9	PPG	12745	259SLRN	SILURIAN
42329332720000	PI	9	PPG	12758	259SLRN	SILURIAN
42329332960000	PI	8.3	PPG	7300	453GDLP	GUADALUPE
42329333660000	PI	8.9	PPG	11788	309DVNN	DEVONIAN
42329334200000	PI	10	PPG	3221	453SVRV	SEVEN RIVERS
42329334200000	PI	9.1	PPG	5732	453GDLP	GUADALUPE
42329334200000	PI	8.6	PPG	8858	452SPBLS	SPRABERRY LOWER SHALE
42329334200000	PI	8.9	PPG	11581	309DVNN	DEVONIAN

Well Workbook – String tab

A	B	C	D	E	F	G	H	I	L
UWI	Source	Type	Depth Top	Depth Base	Size	Cement Amount	Cement UOM	PRODFit Top Formation	PRODFit Base Formation
42329000310100	PI	TUBING		6737	2 3/8 IN				GUADALUPE
42329000350100	PI	TUBING		6849	2 3/8 IN				GUADALUPE
42329005520100	PI	CASING		10521	4 1/2 IN	815	SACK		SPRABERRY LOWER
42329005520100	PI	TUBING		7235	2 3/8 IN				SPRABERRY UPPER
42329006270100	PI	TUBING		7099	2 3/8 IN				GUADALUPE
42329008010100	PI	CASING		11547	7 IN	1250	SACK		BARNETT /SH/
42329008010100	PI	LINER	11470	16465	4 1/2 IN	550	SACK	BARNETT /SH/	DEVONIAN

Well Workbook – Survey tab

A	E	F	G	H	I	J	K	V
UWI	Survey Company Final	Survey Company	Processing Type	Date	Depth Top	Base Depth	Survey Type	PRODFit Formation Name H80
42329010410100	UNKNWN	UNKNWN		03/14/1995	12900	13403	MWD	ELLENBURGER
42329010560100	UNKNWN	UNKNWN		01/11/2015	100	14023	MWD	SILURIAN
42329014160100	PHNXDRLGS	PHNXDRLGS		01/05/1997	100	14703	MWD	DEVONIAN
42329015990100	MLTI-SHOT	MLTI-SHOT		10/24/2001	100	13691	U	MISSISSIPPIAN LOWER
42329016080100	MLTI-SHOT	MLTI-SHOT		06/23/2003	100	13060	MWD	DEVONIAN
42329016080300	MLTI-SHOT	MLTI-SHOT		06/23/2003	100	13055	U	DEVONIAN
42329018350100	UNKNWN	UNKNWN		03/12/2001	200	15686	U	DEVONIAN
42329103110100	VOGEL HRZN	VOGEL HRZN	N	05/29/1996	6600	7833	MS	SPRABERRY UPPER
42329103110200	VOGEL HRZN	VOGEL HRZN	N	06/22/1996	6973	8048	MS	SPRABERRY UPPER

Well Workbook – Survey Point tab

A	D	E	F	G	L	M	N	O
UWI	Depth Measure	Depth True Vertic	Drift Angle	Drift Directi	Type	Point Type Name	PRODFit Formation Code	PRODFit Formation Name
42329000310100	7140	7071.58	70.7	346.9				
42329000310100	7161	7077.65	75.7	345.9				
42329000310100	7173	7080.27	79.1	345.4				
42329000310100	7208	7085.29	84.4	345.7	H80	80 DEGREE HEEL POINT	452SPRBU	SPRABERRY UPPER
42329000310100	7237	7087.99	84.9	345.5				
42329000310100	7247	7088.74	86.5	346				
42329000310100	7270	7089.39	90.3	345.5				
42329000310100	7302	7088.88	91.5	345.4				
42329000310100	7334	7088.07	91.4	345.8				
42329000310100	7366	7087.38	91.1	345				
42329000310100	7398	7086.79	91	345.2				
42329000310100	7429	7086.27	90.9	344.6				
42329000310100	7461	7085.80	90.8	345.2				
42329000310100	7491	7085.46	90.5	344.8				
42329000310100	7522	7085.22	90.4	344.9				
42329000310100	7554	7085.05	90.2	347.2				
42329000310100	7586	7084.97	90.1	347.3				
42329000310100	7618	7084.94	90	347.3				
42329000310100	7648	7084.96	89.9	347.3				
42329000310100	7680	7085.08	89.7	347.9				
42329000310100	7710	7085.26	89.6	347.4				
42329000310100	7726	7085.40	89.4	347.4				
42329000310100	7741	7085.45	90.2	346.8				
42329000310100	7771	7085.35	90.2	346.4				
42329000310100	7802	7085.24	90.2	346.6				
42329000310100	7834	7085.15	90.1	346.7				
42329000310100	7866	7085.07	90.2	346.2				
42329000310100	7898	7084.96	90.2	346.8				
42329000310100	7929	7084.85	90.2	346.6				
42329000310100	7941	7084.81	90.2	346.4				
42329000310100	7975	7084.69	90.2	346.4	PE	PROJECTED, END POINT		

Well Workbook – Pressure tab

A	C	D	E	H	I	J	K	L	M
UWI	Test Type	Pressure Obs Number	Fluid Type	Formation Top Name	Formation Base Name	Depth Top	Depth Base	PRODFit Top Formation	PRODFit Base Formation
42329000350100	IP	1	OIL	SPRABERRY	SPRABERRY	6980	8165	GUADALUPE	SPRABERRY UPPER
42329006270100	IP	1	OIL	SPRABERRY	SPRABERRY	7075	8665	GUADALUPE	SPRABERRY UPPER
42329008010100	IP	1	OIL	DEVONIAN	DEVONIAN	12056	16350	DEVONIAN	DEVONIAN
42329008140100	IP	1	OIL	DEVONIAN	DEVONIAN	11650	13838	DEVONIAN	DEVONIAN
42329010410100	IP	1	OIL	ELLENBURGER	ELLENBURGER	12900	13403	ELLENBURGER	ELLENBURGER
42329014160100	IP	1	OIL	DEVONIAN	DEVONIAN	11990	14703	DEVONIAN	DEVONIAN
42329016080300	IP	1	OIL	DEVONIAN	DEVONIAN	11488	13055	DEVONIAN	DEVONIAN
42329103110100	IP	1	OIL	SPRABERRY	SPRABERRY	6965	7833	GUADALUPE	SPRABERRY UPPER
42329300030100	IP	1	OIL	DEVONIAN	DEVONIAN	11059	13864	DEVONIAN	DEVONIAN

Well Workbook – Completion tab

A	C	D	E	F	G	H	I	J	K	L
UWI	Number	Completion Date	Formation Top Name	Formation Base Name	Depth Top	Depth Top UOM	Depth Base	Depth Base UOM	PRODFit Formation Top Name	PRODFit Formation Base Name
42329003330100	1		SPRABERRY	SPRABERRY	7093	FT	7310	FT	GUADALUPE	SPRABERRY UPPER
42329005520100	1		JO MILL	JO MILL	8100	FT	10452	FT	SPRABERRY LOWER	SPRABERRY LOWER
42329006270100	1		SPRABERRY	SPRABERRY	7075	FT	8665	FT	GUADALUPE	SPRABERRY UPPER
42329006270100	2		SPRABERRY	SPRABERRY	8710	FT	9071	FT	SPRABERRY UPPER	SPRABERRY UPPER
42329008010100	1		DEVONIAN	DEVONIAN	12056	FT	16350	FT	DEVONIAN	DEVONIAN
42329008140100	1		DEVONIAN	DEVONIAN	11650	FT	13838	FT	DEVONIAN	DEVONIAN
42329008140100	2		FUSSELMAN	FUSSELMAN	12399	FT	12436	FT	DEVONIAN	DEVONIAN
42329008290100	1		SPRABERRY	SPRABERRY	7041	FT	7295	FT	GUADALUPE	SPRABERRY UPPER
42329010410100	1		ELLENBURGER	ELLENBURGER	12900	FT	13403	FT	ELLENBURGER	ELLENBURGER
42329010560100	1		DEVONIAN	DEVONIAN	11771	FT	14023	FT	DEVONIAN	FUSSELMAN

Reports

PRODFit Formation data now appears in Enerdeq reports, including the Scout Ticket and Well Summary reports.

PRODFit data elements added to various **Exports**.

Export Name / Tab Name	Column Header	Column Alpha
Well Workbook / Header	PRODFit Formation at TD	AN
Well Workbook / Header	PRODFit Top Formation Producing Name	AP
Well Workbook / Header	PRODFit Base Formation Producing Name	AQ
Well Workbook / Header	PRODFit 80 Degree Heel Point	AR
Well Workbook / Test	PRODFit Formation Top Name	I
Well Workbook / Test	PRODFit Formation Base Name	J
Well Workbook / Test Perforation	PRODFit Top Formation	J
Well Workbook / Test Perforation	PRODFit Base Formation	K
Well Workbook / DST	PRODFit Formation Top Name	H
Well Workbook / DST	PRODFit Formation Base Name	I
Well Workbook / DST Pipe Recovery	PRODFit Top Formation	G
Well Workbook / DST Pipe Recovery	PRODFit Base Formation	H
Well Workbook / DST Material to Surface	PRODFit Top Formation	J
Well Workbook / DST Material to Surface	PRODFit Base Formation	K
Well Workbook / DST Narrative	PRODFit Top Formation	G
Well Workbook / DST Narrative	PRODFit Base Formation	H
Well Workbook / Cores	PRODFit Top Formation	G
Well Workbook / Cores	PRODFit Base Formation	H
Well Workbook / Cores Description	PRODFit Top Formation	H
Well Workbook / Cores Description	PRODFit Base Formation	I
Well Workbook / Core Narrative	PRODFit Top Formation	F
Well Workbook / Core Narrative	PRODFit Base Formation	G
Well Workbook / Mud	PRODFit Formation Code	F

Well Workbook / Mud	PRODFit Formation Name	G
Well Workbook / String	PRODFit Top Formation	I
Well Workbook / String	PRODFit Base Formation	J
Well Workbook / Survey	PRODFit Formation Name H80	V
Well Workbook / Survey Point	Point Type	M
Well Workbook / Survey Point	PRODFit Formation Name	N
Well Workbook / Survey Point	PRODFit Formation Name	O
Well Workbook / Pressure	PRODFit Top Formation	L
Well Workbook / Pressure	PRODFit Base Formation	M
Well Workbook / Completion	PRODFit Formation Top Name	K
Well Workbook / Completion	PRODFit Formation Base Name	L
Directional Survey Export	PRODFit Formation Code	N
Directional Survey Export	PRODFit Formation Name	O
Directional Survey Export	Point Type Code	P
Directional Survey Export	Point Type Name	Q
Well One-Line Export	PRODFit Formation at TD	AN
Well One-Line Export	PRODFit Top Formation Producing Name	AP
Well One-Line Export	PRODFit Base Formation Producing Name	AQ
Well One-Line Export	PRODFit 80 Degree Heel Pt Form	AR
Well Completion List Export	PRODFit Formation at TD	AC
Well Completion List Export	PRODFit Top Formation Producing Name	AE
Well Completion List Export	PRODFit Base Formation Producing Name	AF
Well Completion List Export	PRODFit 80 Degree Heel Point Formation	AG
Well Header List Export	PRODFit Form at TD	AE
Well Header List Export	PRODFit Top Form Prod Name	AI
Well Header List Export	PRODFit Base Form Prod Name	AJ
Well Header List Export	PRODFit 80 Degree Heel Pt Form	AK

PRODFit data elements added to **Reports**.

Report Name	Block	Sub-Block	Attribute
Scout Ticket	General Information	IP Summary	PRODFit Top Form
Scout Ticket	General Information	IP Summary	PRODFit Base Form
Scout Ticket	Dates & Depths		PRODFIt Form Code TD
Scout Ticket	Dates & Depths		PRODFIt Form Name TD
Scout Ticket	Initial Potential Test		PRODFit Top Form Code
Scout Ticket	Initial Potential Test		PRODFit Top Form Name
Scout Ticket	Initial Potential Test		PRODFit Base Form Code
Scout Ticket	Initial Potential Test		PRODFit Base Form Name
Scout Ticket	Initial Potential Test	Oil Analysis	PRODFit Top Form Code
Scout Ticket	Initial Potential Test	Oil Analysis	PRODFit Top Form Name
Scout Ticket	Initial Potential Test	Oil Analysis	PRODFit Base Form Code
Scout Ticket	Initial Potential Test	Oil Analysis	PRODFit Base Form Name
Scout Ticket	Initial Potential Test	Gas Analysis	PRODFit Top Form Code
Scout Ticket	Initial Potential Test	Gas Analysis	PRODFit Top Form Name
Scout Ticket	Initial Potential Test	Gas Analysis	PRODFit Base Form Code
Scout Ticket	Initial Potential Test	Gas Analysis	PRODFit Base Form Name
Scout Ticket	Initial Potential Test	Perforations	PRODFit Top Form Code
Scout Ticket	Initial Potential Test	Perforations	PRODFit Top Form Name
Scout Ticket	Initial Potential Test	Perforations	PRODFit Base Form Code
Scout Ticket	Initial Potential Test	Perforations	PRODFit Base Form Name
Scout Ticket	Production Test	Perforations	PRODFit Top Form Code
Scout Ticket	Production Test	Perforations	PRODFit Top Form Name
Scout Ticket	Production Test	Perforations	PRODFit Base Form Code
Scout Ticket	Production Test	Perforations	PRODFit Base Form Name

Scout Ticket	Oil Analysis		PRODFit Top Form Code
Scout Ticket	Oil Analysis		PRODFit Top Form Name
Scout Ticket	Oil Analysis		PRODFit Base Form Code
Scout Ticket	Oil Analysis		PRODFit Base Form Name
Scout Ticket	Gas Analysis		PRODFit Top Form Code
Scout Ticket	Gas Analysis		PRODFit Top Form Name
Scout Ticket	Gas Analysis		PRODFit Base Form Code
Scout Ticket	Gas Analysis		PRODFit Base Form Name
Scout Ticket	Water Analysis		PRODFit Top Form Code
Scout Ticket	Water Analysis		PRODFit Top Form Name
Scout Ticket	Water Analysis		PRODFit Base Form Code
Scout Ticket	Water Analysis		PRODFit Base Form Name
Scout Ticket	Perforations		PRODFit Top Form Code
Scout Ticket	Perforations		PRODFit Top Form Name
Scout Ticket	Perforations		PRODFit Base Form Code
Scout Ticket	Perforations		PRODFit Base Form Name
Scout Ticket	Drill Stem Test		PRODFit Top Form Code
Scout Ticket	Drill Stem Test		PRODFit Top Form Name
Scout Ticket	Drill Stem Test		PRODFit Base Form Code
Scout Ticket	Drill Stem Test		PRODFit Base Form Name
Scout Ticket	Casing, Liner, Tubing	Casing	PRODFit Top Formation Code
Scout Ticket	Casing, Liner, Tubing	Casing	PRODFit Base Formation Code
Scout Ticket	Casing, Liner, Tubing	Tubing	PRODFit Top Formation Code
Scout Ticket	Casing, Liner, Tubing	Tubing	PRODFit Base Formation Code
Scout Ticket	Casing, Liner, Tubing	Liner	PRODFit Top Formation Code
Scout Ticket	Casing, Liner, Tubing	Liner	PRODFit Base Formation Code
Scout Ticket	Horizontal		PRODFit Formation at 80 Degree Heel Point

Well Summary Report	General Information Header		PRODFit Formation at TD
Well Summary Report	General Information Header		PRODFit Producing Formation
Well Summary Report	Initial Potential Test		PRODFit Top Form
Well Summary Report	Initial Potential Test		PRODFit Base Form
Well Summary Report	IP Perforation		PRODFit Top Form
Well Summary Report	IP Perforation		PRODFit Base Form
Well Summary Report	Production Test		PRODFit Top Form
Well Summary Report	Production Test		PRODFit Base Form
Well Summary Report	Cores		PRODFit Top Form
Well Summary Report	Cores		PRODFit Base Form
Well Summary Report	Casing, Liner, Tubing	Casing	PRODFit Top Formation Code
Well Summary Report	Casing, Liner, Tubing	Casing	PRODFit Base Formation Code
Well Summary Report	Casing, Liner, Tubing	Tubing	PRODFit Top Formation Code
Well Summary Report	Casing, Liner, Tubing	Tubing	PRODFit Base Formation Code
Well Summary Report	Casing, Liner, Tubing	Liner	PRODFit Top Formation Code
Well Summary Report	Casing, Liner, Tubing	Liner	PRODFit Base Formation Code

Sample entitlement matrix to see PRODFit Formation Data in Enerdeq & Web Services

Examples of BOE Region combinations that entitle PRODFit Formations

Entitled BOE Region				
Well Data	**Interpreted Tops**	**PRODFit Permian**	**PRODFit Oklahoma**	**PRODFit KS,TX10, OKPH**
Full U.S.	Full U.S.	X	X	X
Full U.S.	Permian	X		
Full U.S.	Oklahoma		X	
Full U.S.	KS,TX10,OKPH			X
Full U.S.	Oklahoma & KS,TX10,OKPH		X	X
Permian	Full U.S.	X		
Oklahoma	Full U.S.		X	
KS,TX10,OKPH	Full U.S.			X
Permian & Oklahoma	Full U.S.	X	X	
Permian	Permian	X		
Oklahoma	Oklahoma		X	
KS,TX10,OKPH	KS,TX10,OKPH			X
Permian & KS,TX10,OKPH	Oklahoma		X *	

* Oklahoma Panhandle counties include Cimarron, Texas, Beaver & Harper (Cimarron & Texas counties to be delivered at a future date).