

# Petra 2024 What's New

August 13th, 2024

Carley Lyons  
Petra Product Manager

July 2024

# Petra Releases

July  
2023

v. 2023 (3.17)

- New Direct Connections to Bulk Log Database (*WLD, Kingdom*)
- Additional deviation survey calculations
- Updates to User Interface
- Customer feedback and enhancement requests

July  
2024

v. 2024 (3.18)

- Improved filtering and performance for Direct Connect to Bulk Log Database
- Improved well selection options
- More categories for search by data criteria
- Updated options for import/exports
- Highly requested map module enhancement requests
- Customer feedback and enhancement requests

2025+

v. 2025 (3.19) and Beyond

- New Direct Connections to North American ADM (REST API)
- Updates to latest Blue Marble version
- Work-flow automation tool
- Petra Data Manager “Sidekick” enhancements
- Performance improvements
- Client feedback enhancement requests

# The Future of Petra

## Petra Messaging: The future of Petra

Petra is an industry leading software package for Geological interpretation. It is well-loved and respected within the community. Petra has a consistent development effort around feature enhancements and application maintenance. S&P Global CI's support for the application is of high priority due to a strong loyal customer base. We will continue to issue major releases on an annual basis, as well as small releases for feature fixes addressing any client reported or known critical issues.

The goal for continued development of Petra, is to improve workflow efficiencies and add client requested enhancements that remain relevant to the geology community. Listening to our clients requests and needs is number one priority for enhancing Petra.

## Petra Messaging: Are we continuing to invest in Petra?

Yes! S&P Global CI's investment in Petra is to consistently provide workflow improvements and enhancements to our user base, while providing excellent product support. We do this for the purpose of generating new business while maintaining our strong loyal user base.

Petra strongly contributes to our GG&E overall revenue targets this would be a detrimental loss to S&P Global CI if Petra was to be retired.



# New Features in Petra 2024

# Direct Connect Logs

## Bulk Log Database

- Additional filtering options added to the attribute columns
- Improved UI and import options
- Option to designate location for saved LIC and TIFF files
- Import performance improvement

Import S&P Global Well Logs

Wells to Search: Selected Wells

Search Area: ☒ North America ☐ International

Log Type: ☒ Digital Logs ☐ Include Raw Digital Logs ☐ Raster Logs

Search Filtering: ☐ Curve Name ☐ Curve Type ☐ Depth Range

Search

Selection Filtering:

Type	UWI	Well Name	Curve Name	Curve Type	Calibrated	Sample	Start Depth	End Depth	MD/TVD	Unit	Hole Status	Updated	Logging Date
Digital	050010968000	TOTEM	AF10	RESISTIVITY	No	0.5	1155.5	7506.0	MD	OHMM	Cased	09/20/2020	09/20/2020
Digital	050010968000	TOTEM	AF20	RESISTIVITY	No	0.5	1155.5	7506.0	MD	OHMM	Cased	09/20/2020	09/20/2020
Digital	050010968000	TOTEM	AF30	RESISTIVITY	No	0.5	1155.0	7506.0	MD	OHMM	Cased	09/20/2020	09/20/2020
Digital	050010968000	TOTEM	AF60	RESISTIVITY	No	0.5	1155.0	7506.0	MD	OHMM	Cased	09/20/2020	09/20/2020
Digital	050010968000	TOTEM	AF90	RESISTIVITY	No	0.5	1155.0	7506.0	MD	OHMM	Cased	09/20/2020	09/20/2020
Digital	050010968000	TOTEM	AHFCO60	RESISTIVITY	No	0.5	1155.0	7506.0	MD	MMHO	Cased	09/20/2020	09/20/2020
Digital	050010968000	TOTEM	AHT10	RESISTIVITY	No	0.5	1155.0	7506.0	MD	OHMM	Cased	09/20/2020	09/20/2020
Digital	050010968000	TOTEM	AHT20	RESISTIVITY	No	0.5	1155.0	7506.0	MD	OHMM	Cased	09/20/2020	09/20/2020
Digital	050010968000	TOTEM	AHT30	RESISTIVITY	No	0.5	1155.0	7506.0	MD	OHMM	Cased	09/20/2020	09/20/2020
Digital	050010968000	TOTEM	AHT60	RESISTIVITY	No	0.5	1155.0	7506.0	MD	OHMM	Cased	09/20/2020	09/20/2020
Digital	050010968000	TOTEM	AHT90	RESISTIVITY	No	0.5	1155.0	7506.0	MD	OHMM	Cased	09/20/2020	09/20/2020
Digital	050010968000	TOTEM	AHTCO90	RESISTIVITY	No	0.5	1152.5	7506.0	MD	MMHO	Cased	09/20/2020	09/20/2020

[10/30/23 15:05:24] Connecting to Data Services  
[10/30/23 15:05:40] Connected to Data Services  
[10/30/23 15:05:41] Login successful

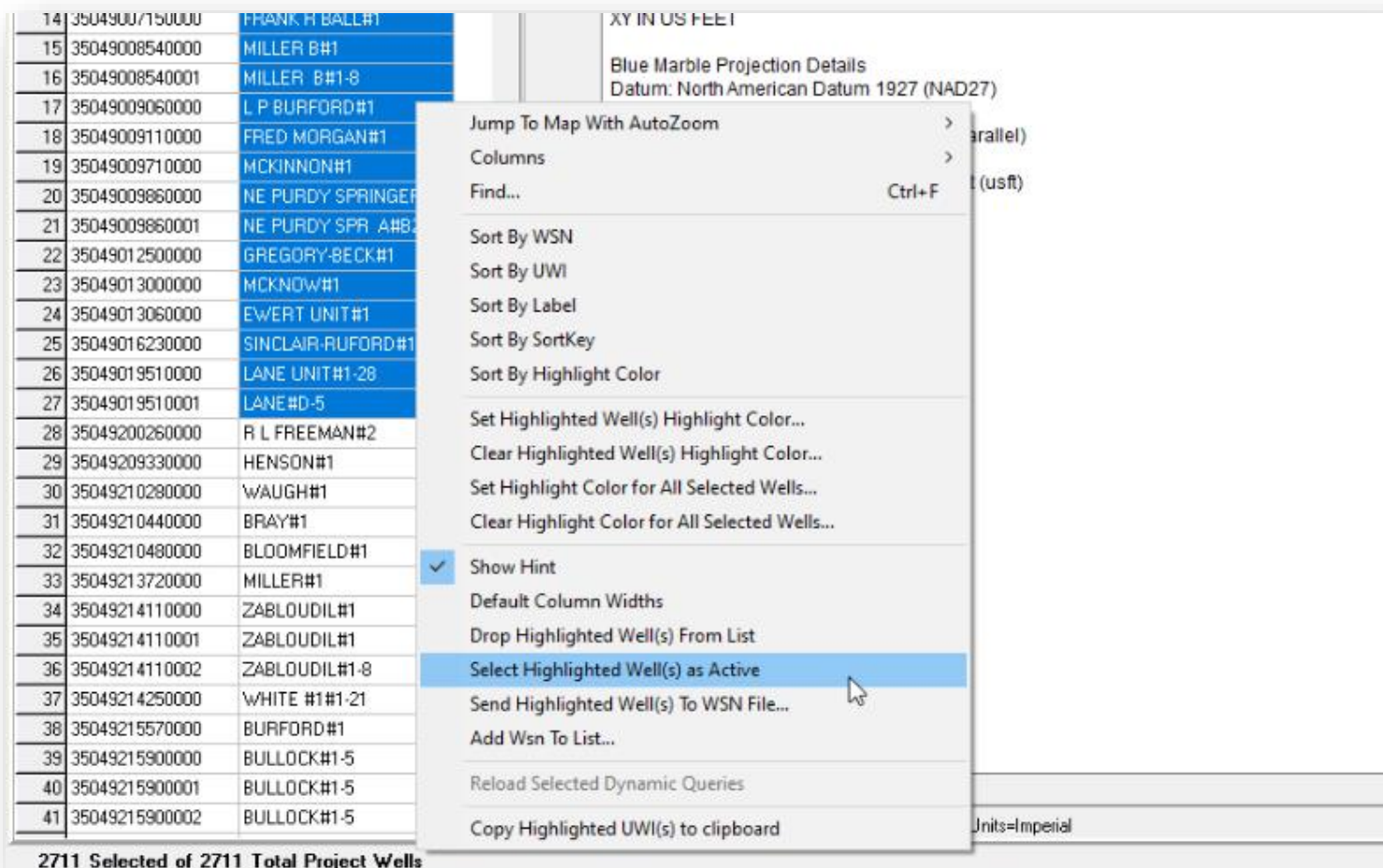
Options:

Project: CKNOX ADVMAP BACKUP UWI Search Count: 2711 2983 of 2983 Selected

# Well Selection Options

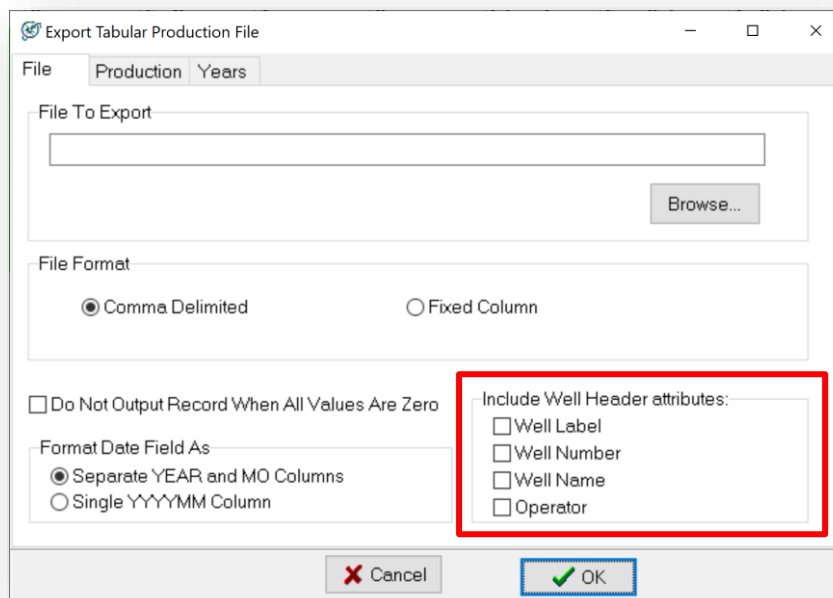
## Main Module

- Easy highlight and select wells as active wells from Main well list
- Option to create new WSN list from selected wells



# Import and Export Updates

- Option to include well header attributes with Monthly Production exports
- Perforation exports:
  - Filter on perf type and/or formation name
  - Option to add location attributes to perf exports
- Optional export to individual well files for deviation surveys



Export Tabular Production File

File Production Years

File To Export

Browse...

File Format

☒ Comma Delimited ☐ Fixed Column

☐ Do Not Output Record When All Values Are Zero

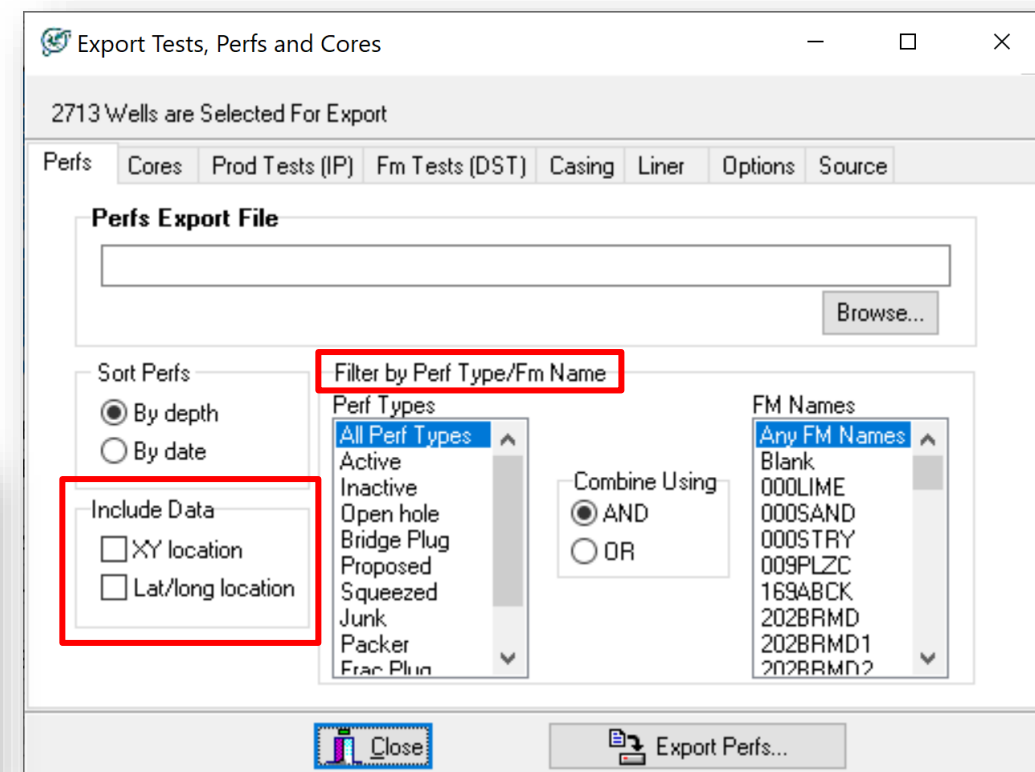
Format Date Field As

☒ Separate YEAR and MO Columns ☐ Single YYYYMM Column

Include Well Header attributes:

☐ Well Label  
☐ Well Number  
☐ Well Name  
☐ Operator

Cancel OK



Export Tests, Perfs and Cores

2713 Wells are Selected For Export

Perfs Cores Prod Tests (IP) Fm Tests (DST) Casing Liner Options Source

Perfs Export File

Browse...

Sort Perfs

☒ By depth ☐ By date

Filter by Perf Type/Fm Name

Include Data

☐ XY location  
☐ Lat/long location

Perf Types

All Perf Types  
Active  
Inactive  
Open hole  
Bridge Plug  
Proposed  
Squeezed  
Junk  
Packer  
Frac Plug

Combine Using

☒ AND ☐ OR

FM Names

Any FM Names  
Blank  
000LIME  
000SAND  
000STRY  
009PLZC  
169ABCK  
202BRMD  
202BRMD1  
202BRMD2

Close Export Perfs...

# Select Wells by Data Criteria

- Core data by interval range
- Wells with any zone items populated
- Active directional surveys
- Production by date range

**Select Wells With Monthly Prod...**

Dates

☒ Restrict By Year Range

Month\Year Range: **Between**

From Month/Year: May 2023

To Month/Year: May 2024

Cancel OK

**Select Wells By Zone Data**

Z Data Dates Quality

Select Well

☐ When ALL Conditions Are Met

☒ When ANY Condition Is Met

☐ Use SSTVD Tops

☐ Use Top Aliases

☐ Use Zone Aliases

+ Insert - Delete

Active	Zone	Item	Min	Max	Select If NULL
<input type="checkbox"/>	DEVIATION_DATA	MD_AT_START_POINT_X	0.01	1E100	<input type="checkbox"/>
<input type="checkbox"/>	FMTOPS	WDFO [IHS]	0.01	1E30	<input type="checkbox"/>
<input type="checkbox"/>	WELL	Any item(s) in zone	0.01	1E30	<input type="checkbox"/>
<input type="checkbox"/>	PB-HX	- Select Item -	0.01	1E30	<input type="checkbox"/>
<input checked="" type="checkbox"/>	PB-HX	Any item(s) in zone	0.01	1E30	<input type="checkbox"/>
		ELEV_KB			
		ELEV_DF			
		ELEV_GR			
		ELEV_SEIS			
		TD			
		CUMOIL			

Ok Cancel

**Select Wells By Data (2713)**

Search Criteria Query History Bulk Query Dynamic Well Lists

Search for attribute

Expand all Collapse all

- Global
- Well Header
- Geology (Tops)
- Zones
  - Zone or Tops Data**
  - Zone Text Item
  - Any Tests in a Zone
  - Interval Data
- Production
  - Any Monthly Production**
  - NO Monthly Production**
  - Producing Fm Name**
  - Production Stream Names**
  - Fm Cum Data
  - Any Perfs
  - Any Shows Data
- Tests
- Mechanical
  - Any Perfs
  - Any Casing Data
- Cored Intervals
  - Any Cores
  - Cores by Fm Name**
  - Cores in a Zone**
  - Any Shows Data
  - Shows in a Zone
  - Casing, Liner and Cement
- Locations
  - Lat-Lon or XY Limits
  - Sec-Twn-Rge Limits
  - Wells with Directional Survey**
  - Any Horizontal Wells
  - Distance Btwn Surface and BH Loc
  - Wells within a Radius
  - Wells with BH Spot Location Data
  - Wells in Offshore Block (Surface)
  - Wells in Offshore Block (Btm Hole)
  - Texas Location Data
- Logs
- Interval Data

Combine Using

☒ AND

☐ OR

☐ NOT

Save Well List

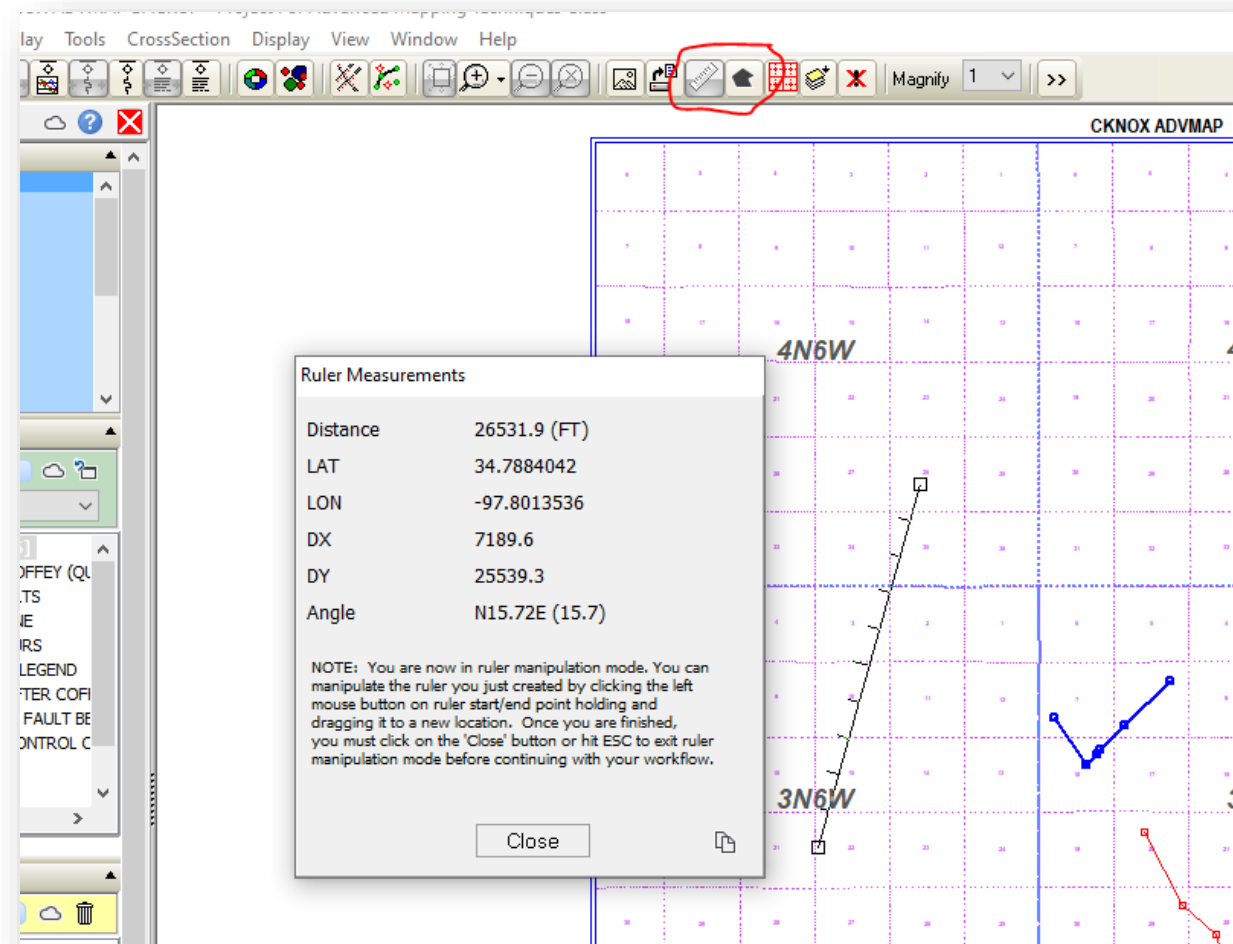
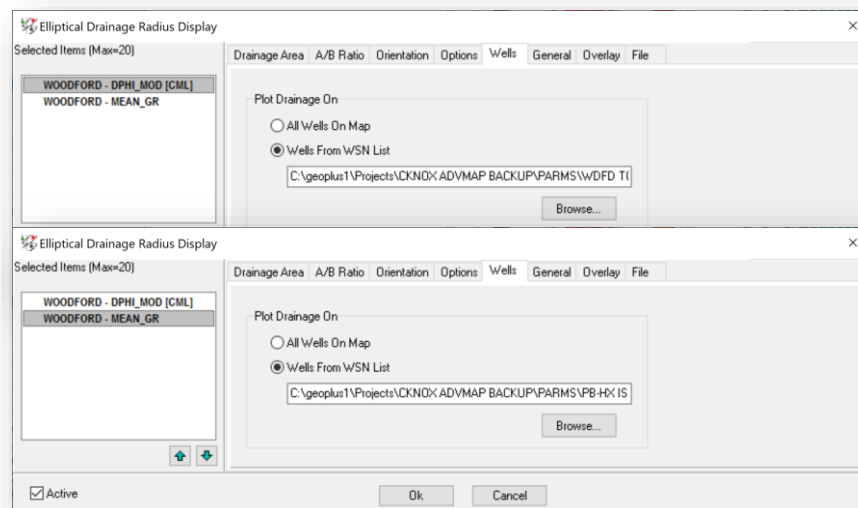
2713 Wells By "Original Well List" Search Criteria (double-click or press "Sea



# Map Module Updates

## Highly requested user features

- Ruler drawn map line/polygon remains on map after close
  - > Redraw to clear
- Option to restore color defaults
  - > All groups (or all colors if at system level) can be reset
  - > Only the current module group is affected by the reset
- Individual WSN list application to Drainage Ellipses



# Beyond 2024

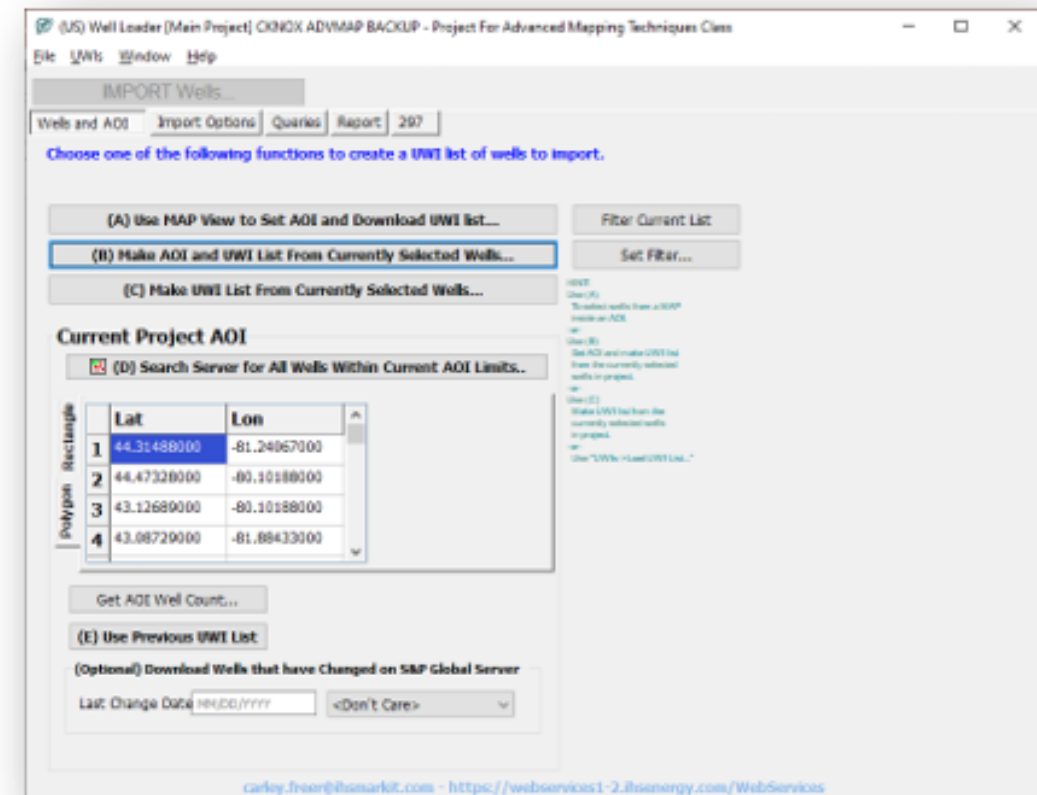
# Direct Connect North America

Well and production data

- **New data connection to the North American Application Data Model (NA ADM)**
  - Single integrated data model across multiple data sets for S&P Global well and production content
  - Daily refreshed/updated database
  - Import performance and speed increased by 100%
- **Consolidated database providing data population and consistency**
  - More populated data attributes for Canadian wells
  - Improved consistency and population of Operator Names and
  - Improved population of Bottom hole locations



REST API



# Petra 2025 and Beyond Roadmap Overview

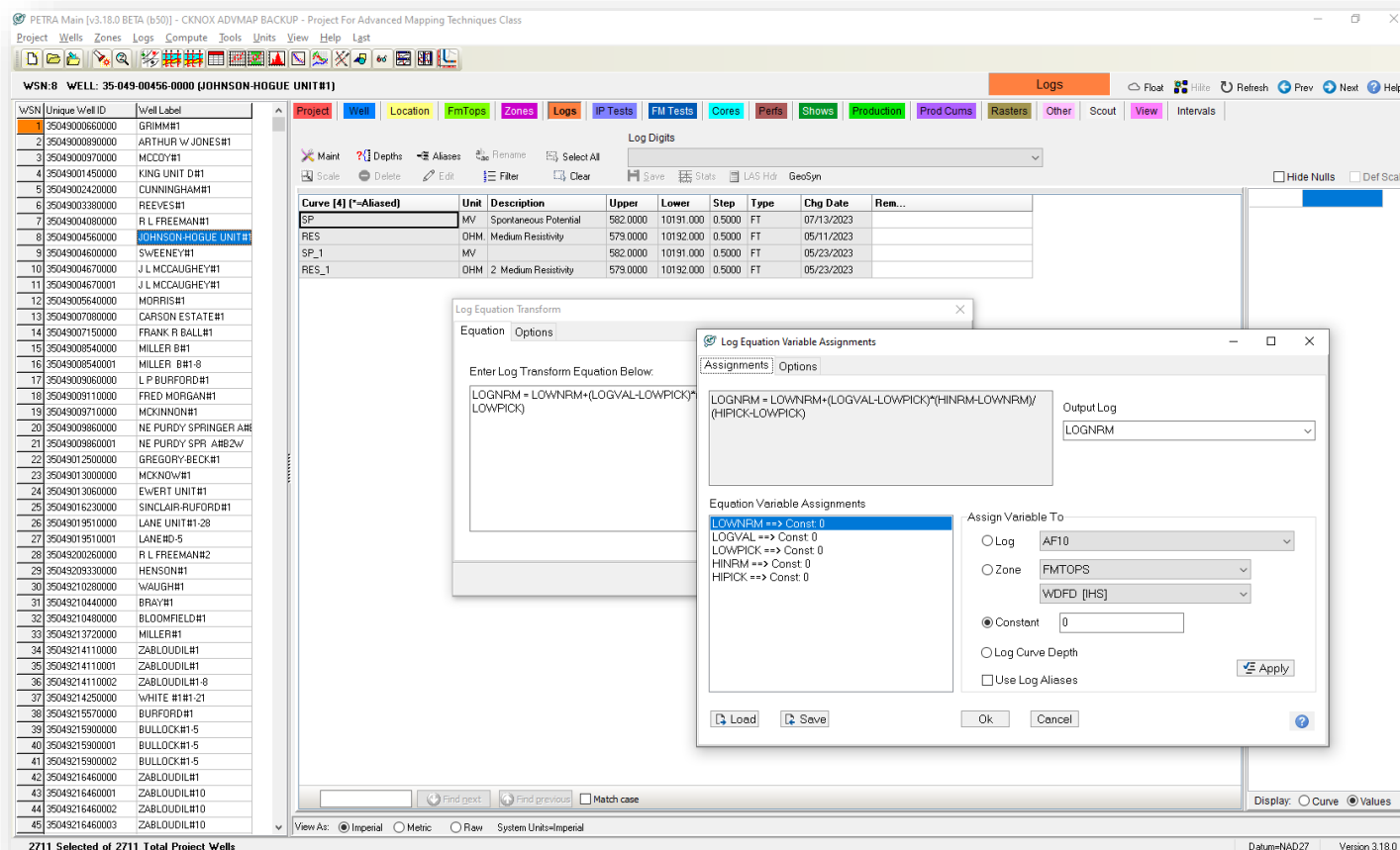
Tentative list as of July 2024

## Direct Connect and Data Management:

- Direct Connect to NA ADM
- Direct Connect to Enerdeq REST API migration (WCF SOAP API retiring Q1 2026)
- Updates to 3<sup>rd</sup> party libraries as needed
- Work-flow automation tool
- Petra Data Manager “Sidekick” template editor
- Import/Export updates
- Client feedback enhancement requests

## Map:

- Georeferenced Images
- Client feedback enhancement requests



# Petra 2025 and Beyond Roadmap Overview

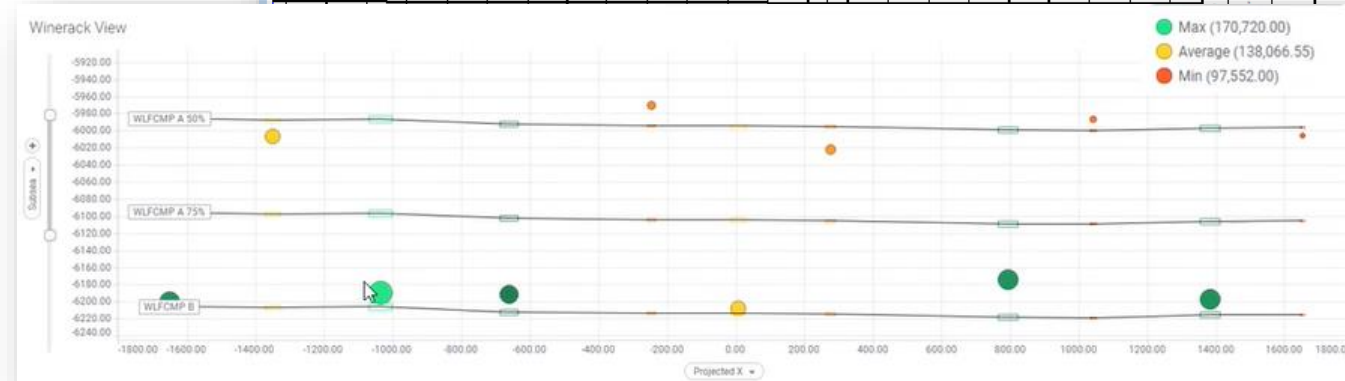
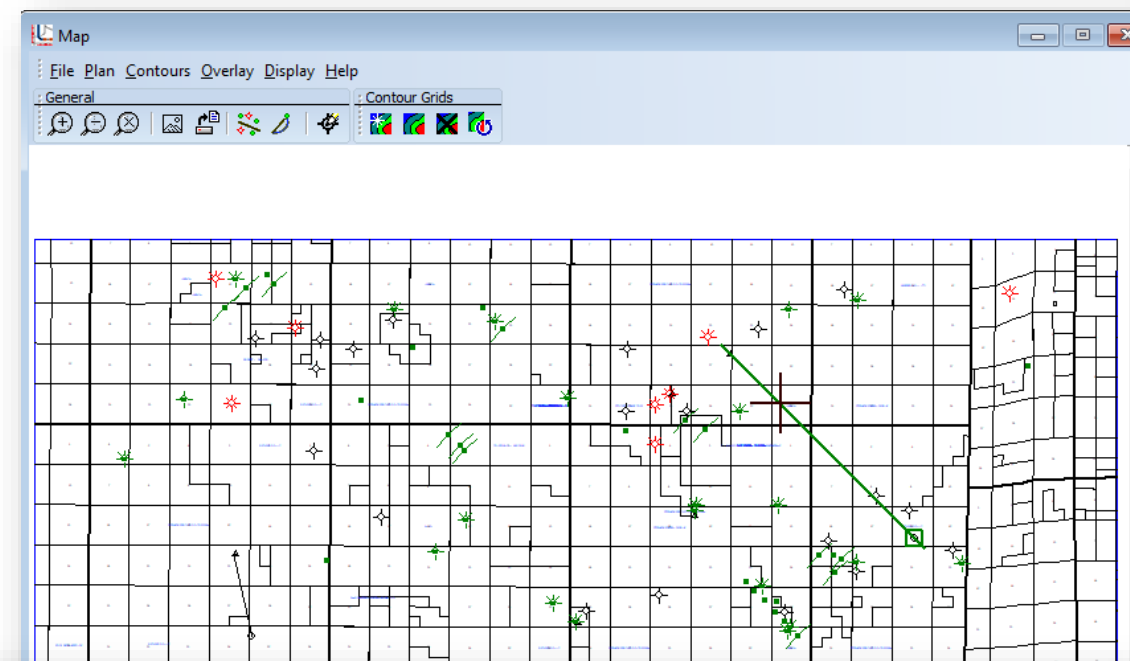
Tentative list as of July 2024

## Cross-Section:

- Performance improvements
- Client feedback enhancement requests

## Directional Well Module:

- Gun-barrel/Wine-Rack diagrams:
  - Aids in well-spacing analysis and pad planning and design
  - Advanced analysis to visualize the midpoints of a wellbore in relation to other wellbores and formations
  - Cross-section perpendicular to the lateral length



# Petra Resources and Events

- **Customer Care**

**Email:** [ci.support@spglobal.com](mailto:ci.support@spglobal.com)

**Phone:**

Americas: +1 800.447.2273

Asia, the Pacific Rim, and Japan: +81 3 6262 1887

Asia Pacific: +604 291 3600

Europe, Middle East, and Africa: +44 1344 328 300

> **Option 3 (Commodity Insights)**

> **Option 2 for Petra**

- To be added to our mailing lists for online webinars and in person events:

<https://www.spglobal.com/commodityinsights/en/ci/Info/en/a/energy-user-group.html>

- S&P Global premier learning portal: **The Learning Center** <https://ci-learning.spglobal.com>

Product Training / Instant-learning opportunities / Interactive user forums / New self-paced Getting Started courses