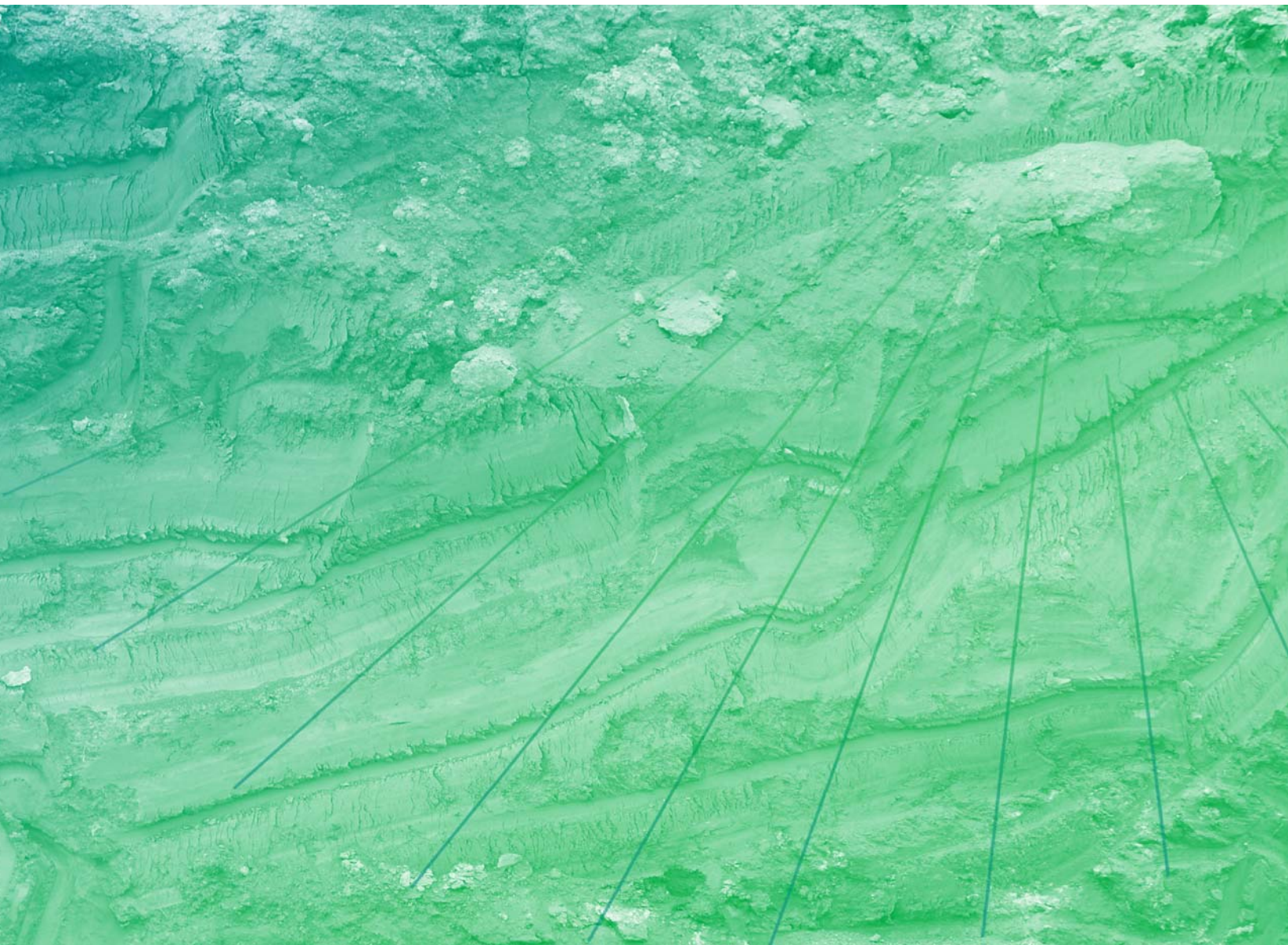


UPSTREAM ENERGY

Petra® 2019

Service Pack 1, September 2019



Petra ® 2019

September 16, 2019

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Overview

This document briefly describes the planned direction of the release of Petra® 2019. The focus of this release covers the following:

- Enhancements
- Bug fixes
- Known Issues

Questions

If you have any questions or need to obtain your software on physical media, contact one of our Customer Care Centers of Excellence at customercare@ihsmarkit.com or by phone. Phone numbers are listed below:

Region	Phone
Americas	+1 800 IHS-CARE +1 800 447-2273 +1 303 736-3001
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General

Louisiana Production ID Updates – Action Required

IHS is transforming its legacy Production Data Accumulation system to deliver production data in a more accurate and timely manner. IHS began building this new system in 2008 and went live with Colorado Production Data in July 2009. Since then, we have completed and implemented additional Rocky Mountain States including Arizona, Montana, Nevada, North Dakota, Oregon, South Dakota, Utah, and Wyoming. Since the transition, we are now able to syndicate Rocky Mountain Production data to customers on a weekly, and in some cases, daily basis.

The Louisiana production data released in February, 2016 has significant modifications, offering many new benefits and advantages to customers. IHS strives to be proactive with solutions as a result this data update is not related to any specific Petra release. Please download the document below to learn more about actions you will need to take as a Petra user.

[Petra project preparation document – Download.](#)

Petra Licensing

Petra 2019 includes common licensing for Kingdom, Harmony, Petra, and GeoSyn.

A network license requires a dedicated computer for the license server, and the installation of two license managers, one to communicate with the Sentinel EMS (Entitlement Management System), and one to activate and monitor licenses. For more information, see the Licensing section of the Installation Guide, available from the Entitlement Management System (EMS) or the Kingdom release website (login required for both).

Backward Compatibility

Petra updates periodically contain changes and additions to the database tables. If an updated version of Petra is used to access a shared project, older versions of Petra will no longer be able to access that project. All Petra seats within an organization should be updated at the same time. If the organization prefers to test new versions of Petra before general release to all users, testing should be done using dedicated test projects rather than projects that the organization wants to be accessible to older versions of Petra.

Software Download Capability

An electronic download of this new release is available from the IHS Petra Software Download page. From the Petra main menu select Help > Petra Download Web Site. Select the product you want to download and save the update file. After downloading the update, close Petra before installing. For the network version, all users must exit Petra before the update can be installed.

If you do not have an internet connection and need to obtain the Petra update on physical media, contact IHS at petralicensing@ihsmarkit.com.

Requirements

Minimum Hardware		
<ul style="list-style-type: none">• 64-bit dual-core machine• 12 GB of physical RAM• 512 Mb of video RAM with OpenGL acceleration9		
Supported Operating Systems	Install	Support
Windows 7 SP1 (64-bit)	Yes	Yes
Windows 10	Yes	Yes
Windows 2008 64-bit	Yes	Yes
Windows 2012 Server R2	Yes	Yes

Server Recommendations

IHS recommends that you store the database files on a network server. See the PETRA – Usage in Large Multiuser Environments document for details. Multiple servers can be deployed in your environment to accommodate large numbers of users

Terminal Services Implementation

IHS has documented remarkable performance improvements in multi-user Petra environments when Petra is deployed on a terminal server (e.g. Microsoft's Remote Desktop) using local disk storage. Under such conditions, network traffic to enable multi-user file sharing of Petra's database files is eliminated, and users achieve unparalleled efficiency and satisfaction.

IHS has fully documented, certified and supports such an implementation. We encourage you to contact IHS Customer Care for more information. We are happy to schedule professionals to come to your office to install, test and certify this Petra environment for you.

[Download the Terminal Services Implementation white paper.](#)

Best Practices

If you are storing your projects on your local hard drive, obtain an NTFS formatted drive large enough to store all of your projects. Backing up your data is critical. Remember to also use a backup device (tape drive, USB Disk Drive, DVD writer capable of spanning) in case of an internal drive failure.

Enhancements

The following enhancements have been made since the release of Petra Standard 2019.

Petra 2019 SP1 (September 24, 2019)

Module	Description
Main	<ul style="list-style-type: none">• Splitter bar on main tab instead of collapse tree• Updates to merging imported log curves
Direct Connect	<ul style="list-style-type: none">• Grid North/True North updates to Direct Connect• Perforation Fm Name imported through Direct Connect
Spreadsheet	<ul style="list-style-type: none">• Ability to quick export multiple CSV files from Spreadsheet module

Petra 2019 (April, 2019)

Module	Description
Main	<ul style="list-style-type: none">• Option to Select Wells from Cross-Section 1 or 2 into Main Module• Supported Formation Name Column on Perforations Tab• Supported Well Name/Number/Label to Production Plot• Customized sizing adjustment to Well Tab Remarks window box• Interval Data Deletion• Core Tab Remarks Column• Percentage in Wellbore Save/Load Templates• Spreadsheet Quick Text File Export• Filtering option for digital log exports• Quality and Description added to Zone Export
Cross Section	<ul style="list-style-type: none">• TVD value posted at bottom of Cross-Section Window• Intuitive reordering of wellbore position• Tops display list and arrow positioning
Map	<ul style="list-style-type: none">• Multiple overlay polygon line copy/paste functionality• Map Scale Bar Modification• Map Symbol Hi-light Legend modification• Contour Legend Box modification• Batch grid and Dynamic WSN update• Polygon measurement tool addition
Well Selection (Query Tool) Enhancements	<ul style="list-style-type: none">• Search functionality for query attributes• UI enhancements• Dynamic Well Lists• Search over multiple counties• Perf Type
Raster Log Calibration Module	<ul style="list-style-type: none">• Option to hide pay intervals

Bug Fixes

The following bug fixes have been made since the release of Petra Standard 2018 HF3.

Petra 2019 SP1 (September 24, 2019)

Module	Description	Case
Main	Order of zone items in favorites display (well tab) now displaying correctly with aliased zone items	1666109-ZZTCLX
	Digital logs - still spline now interpolating logs correctly	1617186-R3CWDQ
	Searching Perf by Type now gets all types	1677584-R4B96G
	Direct Connect: Raster multiple available filtering now working correctly	1658028-4FKHQT
	Direct Connect: Locked surveys - grid north/true north designation not overwritten on download	1654153-V5R9BP
Map	Contour a grid dialog no longer has floating point error when enhanced colors checked	1677579-2H2D5V
	Area of polygon vs cart polygon area now provides same display numbers	1677593-S3ZH88
Cross Section	Posting interval data along wellbore no longer posting on top of 2nd to last data point	1647010-WSD3X9

Petra 2019 HF2 (July 2019)

Module	Description	Case
Main	Search by UWI file narrows down list.	1621818-1LS8B4
	Well tab—ProdFM appears above the Production chart.	1638184-MYBCB1
Map	Clipboard no longer cleared after performing a single paste operation.	1620864-65YPHB
	Magnify tool allows editing/selecting lines properly.	1642750-N71P30
	Contour Grid—Color fill scale bar label posting correctly.	1642096-MKJYY5
Cross Section	Filtering on selected tops correctly no longer creates errors.	1617186-R3CWDQ

Log correlation	Resizes tops quick list correctly.	1547361-2V3DCX
Directional Well Module	Draw Error 1/Access Violation open overlay corrected.	1628557-5D1GSH
Decline Curve	Forecasting line now using data for 2018.	1619619-PVD3WQ

Petra 2019 HF1 (April 2019)

Module	Description	Case
Map	Loads previous version map settings correctly	1617301-3LBQTZ
	Draw line in stream mode works correctly	1620806-9L7KZX

Petra 2019 (April, 2019)

Module	Description	Case
Main	Zone Maintenance - select color for zone name - now saving	1526496-845T46
	Well tab - Editing the field name on the well tab now updates the change date on the datum elevation and TD on the zones tab	1362340-M97T4P
	Zone Highlights now saves after closing and reopening the project	1526496-845T46
	Compute From Tests - Find Producing Zones no longer causes Main to shutdown	1555133-FZNXXM
	Select by name for digital logs direct connect now opens search dialog	1397080-955PH8
	Import 297 footage calls - wells that don't have footage calls do not get footage calls populated for that well	1232119-T4WNRT
	Downloading direct connect production using a date restriction works correctly	1220523-3FTRD6
	Selecting Subset of Wells From Well List using UWI List File - improved for selecting	1496106-PS2XYC
	Perfs tab now correctly shows the bars on the right with many one foot intervals	1478714-Y270L7
Map	Volumetric label issue when closing polygon - if shapefile is polyline the volumetrics polygon name is empty now	1573650-KQC5L2

	ESC key now stops loading data when first opening map module consistently	472949-FBZXY1
	Measure tool displaying in Deg, Mins, Secs now can convert back to Decimal Degrees	1505708-1TLDCL
Raster Calibration	Digitize non linear scale raster - values at bottom of screen now matching the non linear scale	1403978-D1YNBJ
Cross Section	Picking offset top on the TIFF image loaded issue - offset top pick now works with images on	1556300-8FGW1K
	Image footer plotting beyond bottom of image in certain cases when in TVD mode fixed	1539564-2FGQK5
	Clicking show on displaying tops checkbox now works	1493227-9JLY2W
	Label tops above and below line when using something besides name and source now works correctly	1250705-9WRWPH
	Plotting of wells and some have the digital logs plotting past the track - fixed no curves plotted out side the track	1363285-HVS8SK
	Horizontal wells landing location now displays well path depth correctly	1490590-ZRL8H3