WELLPLAN 5000.1
Release Notes

Landmark

Contents

HALLIBURTON

Introduction

This document contains important information and last minute changes related to WELLPLAN software version 5000.1 that is not documented elsewhere. The WELLPLAN software is included in the Engineer's Desktop™ software version 5000.1 release, which provides major new functionality in support of the Drilling and Completions software using the shared EDM™ data model.

System Requirements

For details, refer to the 'System Requirements' section of the *Engineer's Desktop™ 5000.1 Drilling Summary Level Release Notes*.

Third Party Applications

Landmark uses various third-party applications in the development of its software.

Landmark acknowledges that certain third party code has been bundled with, or embedded in, Landmark's software. The licensors of this third party code, and the terms and conditions of their respective licenses, may be found at the following location:

[Installdir]\Documentation\Third_Party.pdf.

Refer to the *Engineer's Desktop™ 5000.1 Drilling Summary Level Release Notes* to view a table describing a complete list of the third-party applications that are in Engineer's Desktop Release 5000.1.

International Trade Compliance

This application is manufactured or designed using U.S. origin technology and is therefore subject to the export control laws of the United States. Any use or further disposition of such items is subject to U.S. law. Exports from the United States and any re-export thereafter may require a formal export license authorization from the government. If there are doubts about the requirements of the applicable law, it is recommended that the buyer obtain qualified legal advice. These items cannot be used in the design, production, use, or storage of chemical, biological, or nuclear weapons, or missiles of any kind.

The ECCNs provided in Release Notes represent Landmark Graphics' opinion of the correct classification for the product today (based on the original software and/or original hardware). Classifications are subject to change. If you have any questions or need assistance please contact us at FHOUEXP@halliburton.com

Under the U.S. Export Administration Regulations (EAR), the U.S. Government assigns your organization or client, as exporter/importer of record, responsibility for determining the correct authorization for the item at the time of export/import. Restrictions may apply to shipments based on the products, the customer, or the country of destination, and an export license may be required by the Department of Commerce prior to shipment. The U.S. Bureau of Industry and Security provides a website to assist you with determining the need for a license and with information regarding where to obtain help.

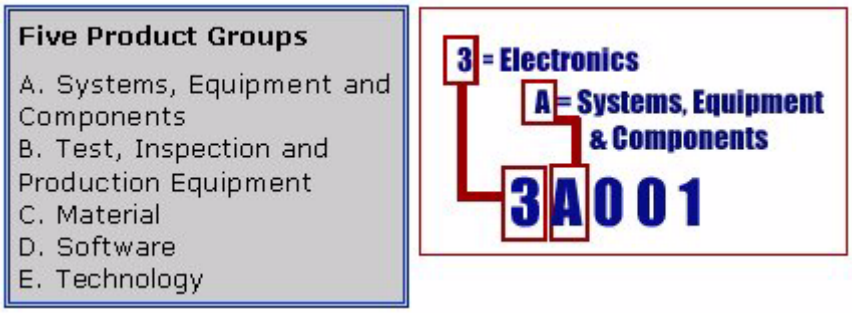
The URL is: http://www.bis.doc.gov

Definitions

CCATS (Commodity Classification Automated Tracking System) - the tracking number assigned by the U.S. Bureau of Industry and Security (BIS) to products formally reviewed and classified by the government. The CCATS provides information concerning export/re-export authorizations, available exceptions, and conditions.

ECCN - Export Control Classification Number - The ECCN is an alpha-numeric code, e.g., 3A001, that describes a particular item or type of item, and shows the controls placed on that item. The CCL (Commerce Control List) is divided into ten broad categories, and each category is further subdivided into five product groups.

The CCL is available on the EAR Website at http://www.access.gpo.gov/bis/ear/ear_data.html#ccl



Installation

Refer to the "Installation" section of the *Engineer's Desktop™ 5000.1 Drilling Summary Level Release Notes*.

IMPORTANT:

- EDT™ 5000.1 is a new product. If you are currently using an EDM™ database version that is 2003.14 - 5000.0.0, you must install 5000.1, then upgrade your database using the new Multi-Version Database Upgrade Utility (EDMPatchDB.exe).
- EDT 5000.1 can co-exist with previous versions of EDT on the same machine. However, LAM 5000 **will not** co-exist with previous versions of LAM (FLEXlm license server) on the same machine. Previous versions of LAM **must be uninstalled** before you install the 5000.1 release. To run EDT 5000.1 and a previous version of the EDT applications on the same machine, you must point one or both versions of EDT to a LAM server located on a remote machine, since only one version of LAM can run locally.

Refer to the *EDT Drilling Installation Guide* for complete details.

Licensing

There have been significant changes to licensing for the 5000.1 release. For details, refer to the Licensing section of the *Engineer's Desktop 5000.1 Drilling Summary Level Release Notes.*

Database Upgrade (SQL Server 2005, SQL Server 2005 Express, and Oracle)

Refer to the "Upgrading the Database" section of the *Engineer's Desktop 5000.1 Drilling Summary Level Release Notes* for information on upgrading your EDM database to the 5000.1 version.

You must upgrade your existing EDM database(s) BEFORE using 5000.1

You must upgrade versions of your database(s) created with earlier versions of the software before running the 5000.1 software.

Enhancements and New Functionality

The following enhancements were added to the WELLPLAN software version 5000.1 release.

Cementing

- OptiCem enhancements:
    - — Update version to 6.1.4
    - — Enhance Animation when mud cake is present
    - — Recommend back pressure if float equipment fails
    - — Mud Erodibility calculations enhanced when compressible or synthetic fluids are present in the wellbore

Torque/Drag

- WELLPLAN TDA includes a stretch calculation in its Summary Loads table which shows stretch solely due to mechanical forces (weight/drag). WELLPLAN stretch calculations have been enhanced to include stretch due to thermal expansion of materials in order to predict more realistic stretch. This will yield a true calculation of the difference between drillers depth and wireline depth (compensated).
- Options for entering Friction Factors in Torque Drag have been simplified. If data from a previous version utilized *User-Defined* or *Calibrated* coefficients of friction, these coefficients will automatically be input into the Hole Section Editor.
- Geothermal Gradient dialog was added

Hydraulics

- Mud Pits added to Hydraulics Circulating System. This functionality provides the option to calculate the flowing fluid temperature from the mud pit to the drillstring at the surface using the mud tank geometry and environmental conditions such as wind speed, ambient temperature.
- Maximum Pump Power, Maximum Allowable Pump Rate, and Standpipe Pressure were added to applicable Hydraulics modes for reference
- Minimum flowrate to clean hole added to Pressure Loss plot as a line of interest for quick reference

Surge

- Optimize trip speed option was removed from Surge/Swab Operations Data. It is now possible to use the Optimized Trip Schedule to view results for entire open hole.
- Surge/Swab Optimized Trip Schedule plot is enhanced to show Maximum and Minimum Trip Speeds
- All the Transient Response Plots are grouped together
- Plots are enhanced to allow usage of MD/TVD, and EMW/PSI toggles, and legends now display trip speeds

Well Control

- Well Control: Kill Sheet quick view results are enhanced to show the Kill Mud Weight Details, with and without Trip Margin
- Well Control Plots are enhanced to show the Casing Burst and BOP Pressure Ratings

Stuck Pipe

- Stuck pipe calculations were enhanced to show the Jar positioning

BHA

- Overgauge field was removed from BHA modules. Use Volume Excess in the Hole Section Editor to define the amount of washout.

Real Time

- Real Time hydraulics calculations were enhanced to support Mud Temperature Effects and Back Pressure
- Real Time Plots were enhanced to configure the actual scatter data

Reports

- All reports have been organized to display tables in logical order and are sequentially numbered
- All reports were updated to accommodate new changes, address outstanding defects, and improve format

General Engineering

- Convert Depth/EMW is updated with maximum pore pressure and minimum fracture pressure for engineering analysis
- PSI/EMW and MD/TVD toggles support across all of the engineering plots and tables (within the application, and Wallplots)
- Right-click copy to clipboard support for all the grid data
- Geothermal Gradient Plot added to Geothermal Gradient dialog
- WELLPLAN status messages are Case-specific and color-coded to denote Errors, Warnings, and Information
- Bit Specifications dialog is enhanced with Bi-Center bit parameters
- Simplified the design of the Hole Section Editor.
  - — The number of hole section types was simplified to Riser, Casing, and Open Hole. If a Case created with an earlier version is opened using the 5000.1 version, any non-supported components will be treated as casings.
  - — Excess % is now used to represent an overgauge hole.
  - — A number of columns can be hidden by checking the Additional Columns box on the Hole Section Editor.
- Maximum Allowable Pump Rate added to Circulating System
- Enhanced the design of the Fluid Editor by presenting a Simplified Fluid Editor for Solid Mechanics modules, and an Advanced Fluid Editor for Fluid Mechanics modules
- A ‘Close All’ option was added to the File Menu, allowing the user to close several open Cases at the same time.
- Disable icons for modules that are not licensed
- Now supports negative string components in the String Editor
- Various engineering bug fixes were done

For **2003.21**, the following enhancements have been made for WELLPLAN:

General

- MD toolbar button was added to toggle the depth axis between measured and true vertical depth on plots, reports, schematics, and wallplots.
- EMW toolbar button was added to toggle the pressure/EMW axis between pressure units and equivalent mud weight.
- Default wallplots were added to reports.
- Tool tips for flow regimes were added to all full string schematics when using Hydraulics, Pump Rate Fixed module.
- The full string schematic displays the effective hole diameter for casing when using the Surge module.

Common Well Explorer

- Added Virtual Folders to the Well Explorer tree. These folders allow users to organize data items in a customized hierarchy.
- Integrated WITSML v. 1.2 support to allow the creation of OpenWire 2003.0.8 pipelines from the Well Explorer tree to load data into the EDM database directly from a remote WITSML server. Pipelines can be created from COMPASS Surveys or WELLPLAN Cases.
- Formations added to the Associated Data Viewer to allow formations to be copied between Designs
- OpenWire 2003.0.8 can be launched directly from the Well Explorer with a right-click menu command at the Database level
- New assemblies have been added to the Associated Data Viewer with copy/paste functionality to Prototype and Planned Designs only: Casing and Tubing assemblies

Torque Drag Analysis Module

- New Friction Calibration drag chart allows for graphical calibration of friction factors. Calibrated friction factors can be averaged for casing and open hole sections for all selected operations and then copied to Hole Section Editor for use in analysis.

Hydraulics Module

- The order of the available analysis modes (using the Mode drop-down list) was reordered to represent engineering analysis practices.
- The Optimization Planning and Graphical Analysis modes were combined into one mode titled Optimization Planning.
- The Well Site Optimization mode was moved to the Notebook module.
- The Bed Height plot was added to the Transport Analysis Data dialog in the Hole Cleaning - Parametric mode. This plot is still available on the View menu.
- Break Gel and ECD chart were moved to a separate dialog. A new plot, Pressure to Break Gel (Pressure: Pump Rate Fixed) was added. The pressure to break the gel strength at various times can be determined using the Pressure-ECD Chart (Pressure: Pump Rate Fixed).
- Back pressure can be included in the analysis using the Pressure: Pump Rate Fixed Analysis Mode and the Pressure: Pump Rate Range Analysis Mode and Hydraulics Real-Time.

OptiCem- Cementing Module

- The Centralizer Placement view was updated to include tripping in speed and RPM.
- The OptiCem-Cementing Module has been updated to the Halliburton OptiCem version 6.0.1.
- Reverse circulation (pumping cement and spacers directly down the annulus) can now be modeled.
- A new animation plot (Density Animation) displays the density in the annulus and the casing anytime during the job for both conventional and reverse circulation cement jobs.
- The Fluid Position Animation plot was enhanced to display fluid positions for reverse circulation cement jobs.
- Multiple lines from the pump to the rig floor can now be included in the analysis.
- Surfactant and stabilizer fields were added to the Foam Schedule. (These fields were previously only on the Foam Data dialog.)
- The Status Message have been enhanced to recommend back pressures during wait on cement (WOC) to avoid U-Tubing.

Surge Module

- The Surface Results plots were separated into individual plots for standpipe pressure and block

speed. (Formally, these plots were dual axis plots.)

- The Transient Results plots were separated into individual plots for moving pipe depth and bit velocity. (Formally, these plots were dual axis plots.)
- Rigid centralizers can now be included in Surge analysis.

Critical Speed Analysis Module

- The Boundary Conditions and Mesh Zone dialogs were combined into one dialog (CSA Setup).
- Flow rate can be included in the analysis.

Bottom Hole Assembly Analysis Module

- Flow rate can be included in the analysis.

Notebook Module

- The Well Site Optimization mode was moved to the Notebook module.

Real Time Module

- Mnemonics were moved from the Company level to the Wellbore level.
- OpenWire pipelines can be created directly from the Well Explorer.
- There is an option to correct log curves for datum.
- The Real-Time View application can be launched directly from the Associated Data Viewer for a WELLPLAN case.
- Using Real-Time View, actual and planned log data can be compared. Refer to the Real-Time View online help for more information.

Wallplot Composer

- All existing wallplots were updated to account for database changes
- All applicable wallplots can use the MD and EMW toolbar buttons
- All system workspaces were updated.

Reports

General Changes

- Tables will not be displayed on the reports when the associated analysis option is not included in the analysis.
- Reports now contain several new sections, including: Customer Information, Well Information, and General and Offshore Case information.
- String components and connectors are now displayed in one table.
- The Drill String Nozzles table now reports the percentage of diverted flow for split flow components.
- The Hole Section table now reports shoe depth, tapering of the string, drift, and linear capacity.
- Formatting issues, such as unnecessary parenthesis and column headings for tables spanning two pages, have been resolved.
- Applicable schematics and plots are now included in reports.

Hydraulics Pressure/ECD Report (Pressure Pump Rate Fixed mode)

- Pore and fracture pressure data have been combined into one table.
- A new table titled “Hydraulics Drag Chart Summary Table” has been added.

Catalogs

- Catalog Editor now supports the copy/paste feature.
- The display of the catalogs in the Well Explorer was organized according to catalog type. There are now three categories of catalogs, including: Drilling Tools, Completion Tools, and Wellhead Equipment.
- A Core Barrel Drilling Tool catalog was added.
- Several new Completion Tool catalogs were added, including catalogs for:

  — Blocks

  — Casing, Liner, and Completion Accessories

  — Conventional Pumps

  — Electric Submersible Pumps

  — Hydraulic Lift Pumps

  — Instruments

  — Intelligent Well Tools

  - — Mandrels
  - — Packers
  - — Polished Bore Receptacles
  - — Progressing Cavity Pumps
  - — Pump Rods
  - — Sand Control Screens
  - — Sub-Surface Safety Valves
  - — Umbilicals
  - — Wellbore Equipment
- Wellhead Equipment catalogs were added, including catalogs for:
  - — Hangers
  - — Wellhead Components

Fixed Problems

The following problems were either fixed or have work-arounds for the **5000.1** release.

General

726666 WELLPLAN Schematic does not show correct depths with custom unit set.

728769 The Status Message Toolbar can become greyed out when selecting a Swab Surge (Steady State) Wall Plot Composer data box without entering any input data. To re-activate the Status Message Toolbar, close and re-open WELLPLAN.

743759 The String Editor will now set the top component(s) length to zero if the string depth is less than the hole section depth.

747532 The toggle MD and EMW toolbars buttons will remove all frozen lines from a plot. (A curve is "frozen" by right-clicking on the curve and selecting Freeze Line.)

749011 When creating a design and case from OpenWells, it is not possible to select pore pressure or fracture gradient data.

751479 It is possible to create multiple fluids with the same name.

751851 Custom base fluid name and compressibility data is not imported with the fluid library (*.lib.xml).

752214 Convergence angle/location should be exposed in the Well Explorer for engineering applications

752443 When a Case is created, the first row (0 for MD, Inc, and Azi) of the wellpath should not be editable.

752437 In a Citrix environment, an incorrect parameter error is thrown, and the operation is aborted when importing a Caliper log from the local drive.

753796 Remove Tau0 from yield point description.

764205 Default file name of Library export file is not intuitive to users.

768007 Software crashes when using undereamer and checking diverter through component percentage different than 75%.

772371 Crash when importing a workstring from a library after DEX import.

772539 The Well Explorer displays Russian characters as question marks.

773975 Bit TFA does not change when Jet nozzle row is deleted.

779899 Tab name is not correct when tab order is changed.

782311 Custom labels and descriptions entered using Russian characters in the Data Dictionary are displayed as question marks.

Torque Drag

757751 For Tripping In operation (Using SOD's) drag chart torque does not match with that of Normal analysis for Rigid Centralizers.

773646 Torque Drag Analysis Tortuosity Magnitude now allows 10 rows.

774165 WELLPLAN will only take into account buoyancy effects when the first survey point is defined at MSL as MD=0

774345 Abnormal program termination when focus is on the STF column in TDA Load Summary and then the F2 key is clicked.

775739 The tension limit line in the effective tension plot in T&D module has a limit of 2000 kips.

777588 Bucking lines are not displayed on the Effective Tension plots.

781701 Torque results for Drag Chart analysis using standoff devices may change slightly as a result of modified calculation.

Hydraulics

732200 MD Calculation Interval was increased to 500 rows/ intervals.

773542 In the Hydraulics module, the ECD and circulating pressure calculations were not performed correctly when an undereamer was in the string.

780488 For some data sets, the Transport Analysis Data dialog is validating against the wrong fields.

Well Control

772593 Kick calculation model showing wrong depth for pore pressure and fracture lines of interest.

778074 Well Control Influx Volume results may change because volume interval calculation increments are now based on barrels.

Surge

730213 Stand frequency scaling improved in trip schedule when there is no variance over trip schedule.

731477 When using the Surge Module, there is an abnormal software termination if one of the moving pipe depths is close to the additional Depth of Interest.

744572 SrgGraphUI error is thrown on activating Surge module or report the very first time on a new database. Workaround: Close and re-open the case.

753423 When using the Surge module, if the Depth of Interest equals the Shoe Depth, the Depth of Interest will be increased five (5) feet and calculations will proceed. A warning message will also be displayed in the Status Messages area.

768337 Swab/Surge results are not calculated when an undereamer is included in the string.

772322 Inaccurate results when viewing plots using EMW when the units class for pressure is changed to psig.

782255 Accuracy improved for Optimized Trip Speed using oil based muds.

OptiCem

748745 In OptiCem, the Quality Surface plot is missing data for some data sets.

748754 Displaying an animation plot on top of another animation plot that has been fully played may take a significant amount of time.

749373 If you no longer have the centralizer that was used when the centralizer data was transferred to the standoff devices (for Torque Drag Analysis), a warning is displayed.

784003 For some data sets using synthetic mud, the circulating pressure is over-predicted on the Circulating Pressure and Density plot when using the erodibility option.

Stuck Pipe

769620 Display the Stuck position (below or above the jar centerline) as quick view in the analysis results.

Real Time

750232 Mnemonics defined are not transferred via xml files for the Real Time cases.

778578 Real Time ECD at TD and the standpipe pressure results do not match the results from the Hydraulics module.

782345 The calculated ECD at TD using the Real Time Module does not match the ECD calculated using the Hydraulics Module (Pump Rate Fixed).

Reports

730691 On rare occasions, data may not display on a report launched for a non-active module. Workaround: Activate module, trigger calculations, and then relaunch reports relevant to the module.

730942 Foam flag added to fluid rheology data block in report for Generalized Herschel-Bulkley fluids to indicate when fluid is foamed.

739399 Random abnormal terminations when launching the reports the first time resolved.

740616 Occasionally, it takes a long while to launch the Pressure losses report the very first time. Workaround: Launching the report second time does not take as long.

The following problems were either fixed or have workarounds for the **2003.21** release.

General

628399 Add Manufacture and Model number to string specification screen and catalogs.

628407 The Symbol Manager can be used to create, edit, and map symbols to components.

725531 The drift diameter is not included in some casing catalogs.

729016 It is possible to use the same name for two tabs if you rename the tabs by double-clicking on the tab name in the main WELLPLAN window. Using View > Tabs will require unique tab names.

729036 When using Citrix, editing tubular properties displays an warning message for all users in current WELLPLAN Citrix session.

730398 If you want to delete a custom centralizer catalog that contains a centralizer in use by an open case, close the case before deleting the catalog.

731261 For historical files (*.xml and upgraded databases), the first rheology temperature will be assigned as the reference fluid on the Fluid Editor. Review the rheology data in the Fluid Editor to ensure the reference fluid is selected as intended.

731568 WELLPLAN will abnormally terminate if a user-defined workspace is applied twice.

731864 The pore and fracture pressure at the mud line does not account for the air gap.

732306 If the datum is negative, the Temperature plot will not be displayed correctly.

733373 When using the BHA Data Entry Schematic, the component type symbol is not retained when cancelling out of the catalog selector.

738772 WELLPLAN disorganizes the Fann data after user inputs the Fann data in decreasing order.

740640 The bit sub is not available on the String Editor when using an Oracle database.

740721 Copy/paste functionality is not working as expected in catalogs.

741496 The active unit system should be displayed at the project level.

743488 Creating cases from casing design includes non-casing cases.

743765 Java Exception warning when creating a WELLPLAN case from a StressCheck casing design.

746645 WELLPLAN stops responding when importing a specific xml file created in version 2003.16.0 when importing to version 2003.16.1.

750148 Cannot change the mud density units to specific gravity for an API based custom unit set, or to ppg from an SI based unit set.

750527 When the mud weight is changed using the Fluid Editor, it will not be updated in the Wall Plot Composer.

Torque Drag

742541 Pressing F1 to access the online help for the True Tension Plot (Torque Drag Analysis) accessed the incorrect help topic.

746849 Tripping out load case is not accurate with centralizers on casing string.

748119 Backreaming results not updating when changing friction factors when all loads were selected on the Mode Data dialog.

Hydraulics

719155 Unwarranted cuttings loading status message in Hydraulics.

728093 Lines of interest outside of the specified chart data range may be displayed on the Hydraulics Depth vs. Pressure and ECD Chart. Workaround: Manually re-scale the X or Y axis.

728296 Occasionally the Annulus Information table will not display results when the analysis includes mud temperature effects (i.e. the Include Mud Temperature Effects box is checked on the Rates dialog).

732080 When multiple cases with different unit systems are open concurrently, the depth scale on the Operational plot may not be updated correctly.

733103 A crash may occur when the Enter key is pressed if the Hole Cleaning Operational or Parametric plots are active.

733803 Unable to work with the Circulating Pump dialog if a (Hydraulics) pie chart is in the active view.

752276 The cuttings loading option does not effect the Hydraulics drag chart analysis results. This was introduced in 2003.16.1.

752297 When using the Hydraulics Pump Rate Fixed analysis, the tool joint option does not affect the results displayed in the Hydraulics drag chart or the Annulus ECD plot. This issue was introduced in 2003.16.1.

Well Control

731118 Occasionally WELLPLAN will abnormally terminate when the Kick Tolerance report is launched the first time.

Surge

731540 Surge results may not converge when using rigid centralizers.

731689 Overbalance condition displays inaccurate results in Trip Schedule instead of displaying an appropriate message.

738600 Occasionally the Surge calculations may fail when using job data containing cementing stages.

741055 Surge results are not updated for multiple temperature rheology when mud temperature effect is selected on a specific data set.

750697 The Surge Swab Optimized Trip Schedule has been enhanced to honor pore and fracture gradient data consistently.

OptiCem

730467 Foam data is not imported when an OTC file is imported into an Oracle database.

732217 Display both pore pressure and fracture gradient on circulating plots when lines of interest are selected for display.

732908 Additional forces and diameters entered in custom centralizer catalog are not getting passed along to the stand-off devices.

Bottom Hole Assembly

729178 The default drill and record interval for the Bottom Hole Assembly Module created for an instant case are invalid.

730884 When using the Parametric analysis mode in the Bottom Hole Assembly module, a message indicating a non-converged solution will appear when switching between the predicted plots (View > Plots > Predicted Plot > any plot).

731606 A crash may occur when the Dynamics option is selected in BHA Analysis for an instant case.

Stuck Pipe

750917 In the Stuck Pipe module, the Down Set Force for a jar has been added back to the Analysis dialog for the Jar Analysis mode.

Real Time

739370 Unable to migrate real time data from previous versions to 2003.21.0.

The following problems were fixed for the **2003.16.1.6** patch.

743919 Fishing Tool Section Type causes Meta Data Error and crash WELLPLAN 2003.16.1.0 when selected in the String Editor.

764887 User Defined Templates created in Stress Check 2003.16.1.4 are showing in WELLPLAN as User Defined Workspaces.

765189 Unit system for Mud weight on the Fluid Editor doesn't get updated when user changes to any other units system.

The following problems were fixed for the **2003.16.1.5** patch.

761670 Crash every time torque point chart is accessed in drag chart mode

761888 Min WOB Chart in Drag Chart mode shows bad results at the surface

761926 Torque calculations for "Rotation Off Bottom" operation in top down analysis mode are not correct

The following problems were fixed for the **2003.16.1.4** patch.

733103 Crash with character return (Enter), if HC-Opr and HC-Parametric bed height plots are present in the active

743765 Java Exception warning when creating a WELLPLAN case from a Stress Check casing design.

748119 Backreaming results not updating when changing friction factors when all loads were selected on the Mode Data dialog.

750697 Surge trip schedule and optimization results are not honoring pore and fracture gradient constraints.

751686 Changing the String depth for Jar Analysis in Stuck pipe causes WELLPLAN to crash.

752276 Hydraulics drag chart analysis only works when no cuttings loading are applied

752297 ECD and Annular pressure loss calculations do not seem to be being affected by tool joints.

756038 WELLPLAN online help for Centralizer placement and centralizer catalogs needs to be updated for Centralizer types, relative drag & friction and performing a Torque Drag analysis after centralizer placement analysis.

757751 For Tripping In operation drag chart torque does not match with that of Normal analysis for a case using SOD's.

757777 WELLPLAN can not check out more than 3 licenses simultaneously using redundant licensing servers.

758160 Minimum hook load vs Air Column plot on Flotation optimization

758259 Update online help for cuttings loading usage in Hydraulics.

758278 SOD devices when used with single row of running force do not get affected due to change in hole diameter.

760049 Surge - Optimization with flow rate problem observed in the transient results - problem cascaded to trip schedule also.

Known Problems

The following are known problems for the WELLPLAN 5000.1 release:

General

769678 VAM catalogs are not up to date with vendor's list.

776472 Duplicates in Casing/Tubing catalog (Halliburton Redbook Casing) due to Body ID not being added to list of catalog.

778580 Hole Sections incorrectly populated in WELLPLAN with Create Cases from Casing Design feature when BHA length is designed greater than Casing length in Profile.

780699 Wall Plots tabs can only be deleted from the bottom of the list in Tab Manager.

782086 The kick off depth is not refreshed correctly in wellbore properties unless WELLPLAN is closed and reopened.

783590 Radio buttons on the Mud Pits dialog are occasionally disabled when user does not tab out of last focused field.

Torque Drag

782260 Torque Drag centralizer placement calculation uses the 1/1 frequency per joint making the Torque Drag calculation override the spacing from centralizer placement.

Hydraulics

782603 Hydraulics ECD vs Depth and SPP vs Depth in Drag Chart results do not match when changing the base type from Synthetic to water and back to Synthetic.

785348 & 785350 Occasionally the Pressure Loss plot (if present in active view) changes to a plot without grids or crashes when rheology model is changed from Bingham Plastic to Herschel Bulkley or Generalized Herschel Bulkley model and only 2 Fann data points are defined. Workaround: Define three (3) Fann data readings, which are needed for Herschel Bulkley and Generalized Herschel Bulkley Rheology models, before changing the rheology model.

Well Control

730584 Map pore pressure data from kick analysis report to a new row in kick case created from OpenWells in WELLPLAN.

782613 Mud Pits are shown in Well Control module, even though they are not used in this module.

Surge

781978 Reciprocation Mode calculation is not based on the acceleration and deceleration fields.

783985 Occasionally a com object error occurs the first time Surge results are calculated.

OptiCem

775970 Importing and saving some OptiCem (OTC) file via CITRIX ICA interface causes abnormal software termination.

Reports

780657 MD/TVD and EMW/PSI toggle buttons will not have any effect on the tables in the reports.

782256 Occasionally reports may take long time to generate. This usually happens on larger reports.

782470 WELLPLAN reports exported to Microsoft Word are now 40% larger in size than in the previous releases.

The following are known problems from pre-5000.1 WELLPLAN releases:

General

724002 Redundant information is stored Change History Updates.

729854 When a DEX file (*.dxd) is imported into an existing case, the rheological properties for non-Bingham Plastic fluids will not be imported into the case.

746102 Schematics - Not to Scale do not display correctly when swapping unit system from API to SI.

751016 When importing an xml file exported at the Case level, the import message does not indicate what design the case will be imported to.

763115 Unable to add a new value for Manufacturer in Catalog Editor in Japanese locale

764917 DEX from WELLPLAN does not include strings

772539 WELLPLAN doesn't work properly with Oracle database in Russian locale

776214 String Editor - Component/Item Description field does not support CTRL-V (Copy/ Paste)

Torque Drag

756112 Rotating On Bottom plot on Torque Graph affected by selecting Slide Drilling whilst using stiff string model.

OptiCem

748750 When using the OptiCem 3D Density plot, the 3D box disappears from the plot if the plot walls are moved for the measured depth axis.

753113 In OptiCem, the animation video controls do not automatically refresh when the simulator is started in the animation. If another tab is accessed, and then the tab with the animation is accessed, or if another plot is accessed first, the video controls will be visible.

Real Time

776869 Pasting into the Actual Loads table re-calculates all results for each row pasted when results are in the active views.

Reports

774586 Issue printing reports in PDF format with Ricoh print drivers

Contacting Support

Landmark operates Technical Assistance Centers (TACs) in Australia, the United Kingdom, and the United States. Additional support is also provided through local support offices around the world. Local support office information is listed below. If problems cannot be resolved at the district level, our escalation team is called to resolve your incidents quickly.

Support information is always available on the Landmark Graphics Support internet page located at: http://css.lgc.com/CustomerSupport/CustomerSupportHome.jsp.

Technical Assistance Centers

North America 7:30 am - 5:30 pm Central Standard Time Monday - Friday, excluding holidays	**713-839-2200 (Houston, TX, USA)** **Toll Free 1-877-435-7542** **(1-877-HELP-LGC)** Fax: 713-839-2168 (Houston, TX) Fax: 907-275-2655 (Anchorage, AK) Fax: 303-796-0807 (Denver, CO) Fax: 403-262-1929 (Calgary, Canada) Email: support@lgc.com
Latin America (Spanish, Portuguese, English) 7:00 am - 5:00 pm Central Standard Time Local normal business hours	**1-713-839-3405 (Houston,TX,USA)** Fax: 713-839-3646 Email: soporte@lgc.com Toll Free from: Argentina: 0800-800-5263 Brazil: 0800-891-0837 Chile: 800-201-898 Colombia: 01800-915-4743 Mexico: 001-888-438-1296 Peru: 0800-51634 Trinidad: 1-888-438-1296 Venezuela: 0-800-526-3627 Toll Free from local area: Ecuador (Quito) (02)226-1908
Europe, Africa, Middle East 8:00 am - 5:30 pm Local Time Monday - Friday, excluding holidays	**44-1372-868686 (Leatherhead, UK)** Fax: 44-1372-868601 (Leatherhead, UK) Fax: 44-1224-723260 (Aberdeen, UK) Email: eame_helpdesk@lgc.com

Asia, Pacific
8:00 am - 5:00 pm Local Time
Monday-Friday, excluding holidays

61-8-9481-4488 (Perth, Australia)
Toll-free 1-800-448-488
Fax: 61-8-9481-1580
Email:
apsupport@lgc.com

Toll-Free from:
China: 10-800-6100-253
Indonesia: 001-803-61284
Japan: 00531-61-0021
Malaysia 1800-803-687
New Zealand 0800-400-555
South Korea 00308-61-0046
Taiwan 0080-161-1350
Thailand 001-800-611-2784

Toll Free from local area:
Vietnam: 84-8-9191901
India: 91-11-622-1885 (c/o Samit Enterprises)

District Support Offices

Algeria (Algiers)
8:30 am - 4:30 pm Local Time
Saturday - Wednesday excluding holidays

21-337-7239
Email: support@lgc.com

Angola (Luanda)
8:00 am - 5:00 pm Local Time
Monday - Friday, excluding holidays

213 2137 7239
Email: support@lgc.com

Argentina (Buenos Aires)
9:00 am - 6:00 pm
Local time

54-11-4312-8411
Toll Free 0800-800-5263
Fax: 54-11-4311-9566
Email: soporte@lgc.com

Australia (Perth)
8:00 am - 5:00 pm Local Time
Monday - Friday, excluding holidays

61-8-9481-4488
Toll Free 1800-448-488
Fax: 61-8-9481-1580
Email: apsupport@lgc.com

Brazil (Rio de Janeiro)
8:00 am - 5:30 pm
Local Time

55-21-3974-4000 or
Toll Free 0800-891-0837
Fax: 55-21-3974-4002
Email: soporte@lgc.com

Brunei (Bandar Seri Bagawan)
8:30 am - 5:30 pm Local Time
Monday - Friday, excluding holidays

67-3-233-5319
Email: apsupport@lgc.com

Canada (Calgary)
7:30 am - 5:30 pm Central Standard Time
Monday-Friday, excluding holidays

Toll Free 1-877-435-7542
(1-877-HELP-LGC)
Fax: 403-262-1929 (Calgary, Canada)
Fax: 713-830-2168 (Houston, TX)
Email: support@lgc.com

Chile (TAO TAC, Houston, Texas)
Local normal business hours

Toll Free 800-201-898
Fax: 1-713-839-3646
Email: soporte@lgc.com

Colombia (Bogota)
8:00 am - 5:00 pm
Local Time

57-1-326-4000
57-1-326-6710
Toll Free 01800-915-4743
Fax: 57-1-326-6717
Email: soporte@lgc.com

Ecuador (Quito)
8:00 am - 5:00 pm
Local Time

59-32-226-1844
Toll Free from Quito (02)226-1908
Fax: 59-32-226-2590
Email: soporte@lgc.com

Egypt (Cairo)
8:00 am - 4:00 pm Local Time
Saturday - Wednesday, excluding holidays

20-2-759-1717
(ask for Landmark Technical Support)
Email: support@lgc.com

India (New Delhi)
9:00 am - 5:30 pm Local Time
Local Business Days, excluding holidays

91-11-622-1885
(c/o Samit Enterprises)
Fax: 91-11-647-9246
Email: apsupport@lgc.com

Indonesia (Jakarta)
7:30 am - 4:30 pm Local Time
Monday - Friday, excluding holidays

62-21-3003-9039 or
Toll Free 001-803-61284
Fax: 62-21-3003-9088
Email: apsupport@lgc.com

Japan
8:00 am - 5:00 pm Local Time
Monday - Friday, excluding holidays

Toll Free 00531-61-0021
Email: apsupport@lgc.com

Malaysia (Kuala Lumpur)
8:30 am - 5:30 pm Local Time
Monday - Friday, excluding holidays

603-2164-1121 or
Toll Free 1-800-803-687
Fax: 603-2164-1135
Email: apsupport@lgc.com

Mexico (Reynosa) 8:00 am - 6:00 pm Local Time	**52-555-208-3533** **52-555-208-3868** **Toll Free 001-888-438-1296** Local Office Fax: 52-555-514-7646 Email: soporte@lgc.com
New Zealand (New Plymouth) 8:00 am - 5:00 pm Local Time Monday - Friday, excluding holidays	**61-6-755-2318** **Toll Free 0800-400-555** Fax: 64-6-755-2407 Email: apsupport@lgc.com
Nigeria (Lagos) 8:00 am - 5:00 pm Local Time Monday - Friday, excluding holidays	**234-1-461-0780** **(ask for Landmark Technical Support)** Fax: 234-1-262-0769 Email: support@lgc.com
People's Republic of China (Beijing) 9:00 am - 5:30 pm Local Time Monday - Friday, excluding holidays	**86-10-8486-4501** **Toll Free 10-800-6100-253 or** **10-800-810-0209** Fax: 86-10-8486-4819 Email bjsupport@lgc.com or apsupport@lgc.com
Peru (Lima) Local normal business hours	**Toll Free 0800-51634** Fax: 001-713-839-9646 Email: soporte@lgc.com
Russia (Moscow) 7:00 am - 5:00 pm Local Time Local Business Days, excluding holidays	**7-495-960-2926** **7-495-960-2927** **(ask for Landmark Technical Support)** Fax: 7-095-755-8301 Email: support@lgc.com
South Korea 8:00 am - 5:00 pm Local Time Monday - Friday, excluding holidays	**Toll Free 00308-61-0046** Email: apsupport@lgc.com
Taiwan 8:30 am - 5:30 pm Local Time Monday-Friday, excluding holidays	**Toll Free 00801-61-1350** Email: apsupport@lgc.com
Thailand (Bangkok) 8:00 am - 5:00pm Local Time Monday - Friday, excluding holidays	**66-2-278-8100** **Toll Free 001-800-611-2784** Fax: 66-2-278-8199 Email: apsupport@lgc.com

Trinidad & Tobago (TAO TAC, Houston, TX) 7:00 am - 5:00 pm Central Standard Time (Houston, TX) Local normal business hours	**Toll Free: 1-888-438-1296** Fax: 1-713-839-3646 Email: soporte@lgc.com
United Arab Emirates (Dubai) 7:00 am - 5:00 pm Local Time Local Business Days, excluding holidays	**+971-4-3036446** **(ask for Landmark Technical Support)** Fax: +971-4-3315837 Email: gulf_support@lgc.com eame_helpdesk@lgc.com
United Kingdom 8:00 am - 5:30 pm Local Time Monday - Friday, excluding holidays	**44-1372-868686 (Leatherhead)** Fax: 44-1372-868601 (Leatherhead) Fax 44-1224-723260 (Aberdeen) Email: support@lgc.com
United States (Anchorage) 7:30 am - 5:30 pm Central Standard Time Monday - Friday, excluding holidays	**Toll Free 1-877-435-7542** *(1-877-HELP-LGC)* Fax: 907-275-2655 Email: support@lgc.com
United States (Denver) 7:30 am - 5:30 pm Central Standard Time Monday - Friday, excluding holidays	**Toll Free 1-877-435-7542** *(1-877-HELP-LGC)* Fax: 303-796-0807 Email: support@lgc.com
United States (Houston) 7:30 am - 5:30 pm Central Standard Time Monday - Friday, excluding holidays	**713-839-2200** **Toll Free 1-877-435-7542** *(1-877-HELP-LGC)* Fax: 713-839-2168 Email: support@lgc.com
Venezuela (Caracas) 8:00 am - 5:00 pm Local Time	**58-212-953-0774** **Toll Free 0-800-526-3627** Fax: 58-212-952-3845 Email: soporte@lgc.com
Vietnam (Ho Chi Minh City) 8:00 am - 5:00 pm Local Time Monday - Friday, excluding holidays	**84-8-910-1901** Fax: 84-8-910-1902 Email: apsupport@lgc.com

Helpful internet links are shown below.

Name	Website Address
Landmark Graphics home page	http://www.lgc.com
Landmark Graphics FTP Site	ftp://ftp.lgc.com
Oracle home page	http://www.oracle.com

Name	Website Address
FLEXlm license management software	http://www.macrovision.com
Microsoft SQL Server 2005 home page	http://www.microsoft.com/sql/default.asp
Adobe Acrobat Reader	http://www.adobe.com
Microsoft SQL Server 2005 Express	http://www.microsoft.com/sql/editions/express/default.mspx

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2101 CityWest Blvd, Building 2, Houston, Texas 77042-3021, USA
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