

Completed features/changes beyond v4.5; not yet discussed in Dec-2010 User Manual

SES v5.11 Release Notes (2015-09-18)

1. (5.11) Fully update SES User Manual through v5.11 from v4.50 Dec-2010!
2. (5.11) THD: enhance THD calculation algorithm for HD and RCHD within vertical well plan hole sections
3. (5.11) X-sec: enhance how custom images/logos are layered on the cross section canvas
4. (5.11) X-sec: enhance how tops are drawn when beds are not color-filled
5. (5.11) X-sec: bug fix mousemove event over "File" on custom images tab of more cross-sections settings sometimes crashing Access
6. (5.11) X-sec: update Cross-Sections screen help screens
7. (5.11) Multiple: various improvements and minor bug fixes

SES v5.10 Release Notes (2015-08-19)

1. (5.10) X-sec: bug fix marker bed not being fully drawn to survey TD for some metric wells under certain round-off error related situations
2. (5.10) X-sec: set center-line extrapolation to plot the dipping plane along remaining vertical section line (has effect when CL Dip Azi set non-parallel to vertical section azimuth)
3. (5.10) Multiple: various improvements and minor bug fixes

SES v5.09 Release Notes (2015-06-09)

1. (5.09) Surv/Plan: enhance 3D Viewer rendering of grid data to automatically thin/sample relatively dense grid datasets
2. (5.09) Geosteer/PT: bug fix selection of "Other" LWD curves being reset (on occasion, after deleting a 3DSB)
3. (5.09) X-sec: enhance "Coordinates, Properties, & Summaries" data export content (append Well and Wellbore ID columns to main data table and to payzone/gross zone/completion summaries)
4. (5.09) Multiple: enhance data export in LAS file format from Surveys, Planner, Type Log, LWD, THD, and Cross-Sections screens to include a fully populated "~Well" section from well data in SES
5. (5.09) Multiple: various improvements and minor bug fixes

SES v5.08 Release Notes (2015-05-12)

1. (5.08) Surv: add multiple 3D viewer capabilities including surveys as 3D tubes, plans as 3D lines, multiple surveys option with active/inactive well path differentiation settings, multiple surveys and plans single-well option, multiple surveys and plans multi-well option (set "Well Group" to specify) with proper true-to-grid-north conversion when applicable; still with numerous handy tailored display options; still with 3D view rotation through mouse drag and zoom (CTRL key) and pan (SHIFT key) capabilities and access to Advanced Properties for even more display customizations

2. (5.08) Surv: add grid data display capabilities to 3D viewer including 3D points and 3D surface(s), with grid surface drawn as zone or TVD|TVDss-color-contoured in 3D space or on chart floor
3. (5.08) Plan: add similar 3D viewer well plan display capabilities that formerly were only accessible from Surveys screen for survey datasets
4. (5.08) Plan: add similar grid data display capabilities to 3D viewer that are now accessible from Surveys screen
5. (5.08) TL: add functionality whereby rolling mouse wheel vertically scrolls view when log track is zoomed
6. (5.08) PT: enhance RSD track min/max extents adjusting via click-n-drag in upper/lower half of graph canvas
7. (5.08) THD: update THD and THD Logs help screens
8. (5.08) X-sec: enhance how Curve 1 min/max overrides control the color spectrum of 8-sector azimuthal image log display
9. (5.08) System: bug fix floating network license seat not being instantly released when using File|Exit from some screens
10. (5.08) Multiple: various improvements and minor bug fixes

SES v5.07 Release Notes (2015-04-09)

1. (5.07) X-sec: add display option to draw inset map view to scale or NOT to scale
2. (5.07) X-sec: bug fix survey/wellbore not being displayed to TD when >32k unique LWD MDs being plotted (required multiple LWD datasets with different depth steps using the same Survey)
3. (5.07) THD: enhance auto-scaling option of vertical section view displayed in THD Log footer
4. (5.07) Multiple: various improvements and minor bug fixes

SES v5.06 Release Notes (2015-03-18)

1. (5.06) X-sec: bug fix - zone stats now being displayed on preview whether Export is checked or not checked

SES v5.05 Release Notes (2015-03-10)

1. (5.05) X-sec: add Completion Summary to Coordinates, Properties, & Summaries data export (MD Start, MD End, Zone Name, MD Length)
2. (5.05) X-sec: change data export logic regarding duplicates at 3DSB boundaries when not using high-resolution mode or CSV format
3. (5.05) X-sec: add multiple data export options for even greater data transfer compatibility with all major geologic modeling software
4. (5.05) X-sec: add multiple data export file formats to now include CSV, LAS, XLS, TXT, PRN; and clipboard option
5. (5.05) X-sec: add two data export dataset options TopsTVD and TopsTVDss (with WellboreID, Counter, and only non-null tops)
6. (5.05) Multiple: various improvements and minor bug fixes

SES v5.04 Release Notes (2015-02-19)

1. (5.04) Update all Help screens (excluding THD and Cross-Sections screens; those, & fully updated user manual are pending)
2. (5.04) Wells: when adding a new well, default unit of measure is now the same as the last well added to SES database

3. (5.04) X-sec: enhance how inset RSD track horizontal axis range extents are auto-determined from LWD data and Type Log data
4. (5.04) X-sec: bug fix - filled layers +6 to +10 above payzone now being displayed on inset RSD track when applicable
5. (5.04) Multiple: enhance LAS format file importer regarding comma-delimited data
6. (5.04) Multiple: various improvements and minor bug fixes

SES v5.03 Release Notes (2014-05-16)

1. (5.03) Wells: in multi-edit view, refresh drop-down lookups after any data content is changed, added, or deleted
2. (5.03) Surv/Plan: add option to designate input azimuths' North Reference (Grid North, or True North with Grid Convergence specification); azimuthal bearings North Reference affects the calculation of global XY coordinate values and the display of surfaces from interpolating XYZ grid data at local NE coordinate locations (prior versions assumed azimuths were from grid north in this regard; now grid and true are supported)
3. (5.03) Surv/Plan: add "MD/TVD Ref" and "Local North Ref" to wellbore and well plan report headers for regulatory filings
4. (5.03) Surv/Plan: post length units and north reference in respective map view and vertical section view axes labels
5. (5.03) PT: change maximum dip magnitude via dragging 'End | Dip' line to be 50°
6. (5.03) PT: refresh Notes drop-down lookup after any Note content is changed, added, or deleted
7. (5.03) X-sec: post north reference in vertical section view axis label
8. (5.03) X-sec: reduce minimum-allowed cross-section width to 5 inches
9. (5.03) Multi: add clarity that 'Z Datum' at local/well level is the MD/TVD 'vertical' reference datum (e.g., KB)
10. (5.03) Multi: add north reference information in header portion of any LAS file created by exporting data from Surveys, Planner, LWD, THD Technology, and Cross-sections screens
11. (5.03) Multi: add checks to ensure surveys and plans are using identical north reference when applicable
12. (5.03) System: add UTC/GMT time stamps in floating-network license log files for future development/processing regarding issues associated with simultaneous at-capacity use over networks spanning multiple time zones

SES v5.02 Release Notes (2014-03-14)

1. (5.02) PT: enable selective/multiple 3DSB deletion at once, with 3DSB selection to make active after deletion
2. (5.02) PT: enhance 3DSB insertion ("gap button") with auto-detection of gaps before filling AND selective fill choice, with 3DSB selection to make active after insertion(s)
3. (5.02) PT: add "Apply" functionality to Normalization Mode Divisor/Adder-values-setting dialog, for faster iteration/refresh
4. (5.02) PT: add keyboard shortcuts to frequently used commands and operations: Save (CTRL+S); Append new 3DSB (CTRL+A); Delete 3DSBs (CTRL+D); Gap button 3DSB Insertion (CTRL+G); Back to SES (CTRL+B)
5. (5.02) PT: add Notes drop-down box lookup to view (or/and select from) all prior entered 3DSB calibration Notes

SES v5.01 Release Notes (2014-02-21)

1. (5.01) System: create and automatically apply an SES ribbon that functions with Access2013 in the same manner the SES toolbar behaves in Access 2000/2002/2003/2007/2010
2. (5.01) LWD: bug fix to correct right-click shortcut menu not displaying
3. (5.01) X-sec: bug fix LWD curve display option "Axis Limits" setting not being saved or applied when set to false

SES v5.00 Release Notes (2014-02-07)

1. v5 DATA STRUCTURE ENHANCEMENT – data conversion required (FYI v4 data structure enhancement was 2009-08-27)
2. Wells: add SES xml file Export v4 format option for backwards compatibility (v5 will Import v4/v3 xml files too)
3. Wells: add 'Multi-Edit' tab from which multiple wells may be selected/deleted and edited easier and quicker
4. Grids: implement being able to set 1|...|20 z-layer curve color with flow-through to Surveys/Planner/Cross-Sections
5. Grids: create internal workaround to Access/Windows bug that caused an error when deleting a Grid with many (e.g., 200k) records
6. SES: improve appearance of data tables when using Access 2007 and higher
7. SES: change multiple LWD/Geosteer/Cross-sections default values from null to 1 for faster initial setup
8. Surv: add option to Exclude survey from appearing on other Surveys' map/vertical-section views and Cross-Sections OtherSurveys
9. Surv: calculate and store global coordinates with survey calculation for eventual TVDss display
10. Plan: calculate and store global coordinates with plan calculation for eventual TVDss display
11. LWD: implement LAS-file importing and interfacing with new maximum of 8 data curves per LWD dataset
12. LWD: implement WITSML data importing and interfacing with new maximum of 8 data curves per LWD dataset
13. LWD: add option to set 'Adder' value for normalize mode [$\text{New Norm_LWD} = (\text{RawValue} + \text{Adder}) / \text{Divisor}$]
14. LWD: add option to set individual curve and constant value line widths for cross-sections
15. LWD: calculate and store TVDss with survey interpolation for eventual TVDss display
16. Geosteer: implement setting names/thickness/colors of 5 additional bed layers stacked above the payzone layer (10 above, 5 below)
17. Geosteer: add option to restore (or not restore) curve-dependent smoothing settings used when 3DSB was saved
18. Geosteer: make 'Restore Smoothing Settings if Available' setting a stored user preference
19. PT: implement up to 8 LWD curves to be displayed in addition to the primary RSD calibration curve vs. MD below cross-section graph
20. PT: add 3DSB-level Note capabilities and Note display from Active 3DSB selection drop-down box
21. PT: save curve-dependent smoothing state (on/off) and its window size parameter at 3DSB level
22. PT: implement enhanced Normalize mode...[IF LWD Divisor=1, then $\text{LWD} = (\text{RawValue} + \text{Adder}) \& \text{TL} = \text{Value}$], [IF LWD Divisor <> 1, $\text{LWD} = (\text{RawValue} + \text{Adder}) / \text{Divisor} \& \text{TL} = \text{Value} / \text{Value} @ \text{RSD} = 0$]
23. PT: add screen to set LWD curve Adder and Divisor directly from ParamTuner
24. THD: calculate and store global coordinates with THD calculation for eventual TVDss display
25. X-sec: implement paper size support including Letter, Legal, and A4
26. X-sec: implement display of up to $2 \times 8 = 16$ LWD data curves in any combination on 1 to 4 tracks

27. X-sec: add ability to create and display image logs from 8-sector Azimuthal data with settings to control: track location and size, 3 base-color specifications for low/mid/high color spectrum definition, smoothing control in MD and Azimuthal directions, and minimum horizontal "pixel" size control (G&G)
28. X-sec: add ability to display one (G) or up to four (G&G) custom images/pictures, with control of image size mode (clip/stretch/zoom), alignment, frame transparency, and width/height/top/left image frame placement; supported file formats include jpg/tif/gif/png/bmp/dib/ico/emf/wmf/eps/pcx/cgm/pct/wpg/fpx/pcd/mix; stores up to four different path+file locations per image where image file may be located
29. X-sec: improve display of primary wellbore/survey by automatically adding (even more) minimum curvature interpolation points, which enhances making cross-sections of short wellbore intervals (e.g., 400 ft window to display Azimuthal image log)
30. X-sec: implement variable cross-section width control to potentially work better with insets and other features like custom image display
31. X-sec: implement vertical section mode non auto-scale option where axis minimum and/or axis maximum may manually be set
32. X-sec: implement PlotGrid as a stored feature and allow for separate GridInterp and GridExtrap portions, with multiple wellbore extrapolation methods supported (along Plan, along current azimuth, or along vertical section azimuth)
33. X-sec: implement setting of grid interpolation and extrapolation line widths
34. X-sec: implement setting of Survey/SurveyStation/Plan/OtherSurveys line widths and colors, and enhance display of Other surveys to only show wellbore portion off main Survey
35. X-sec: implement enhanced Normalize mode on Inset RSD Track
36. X-sec: implement selective posting of ShowSurvTDvalues MD/Inc/Azi/TVD/Vs/DLS/TVDss at survey TD
37. X-sec: add feature to post parallel lines above and/or below a Center-Line for enhanced drilling-window preference communication
38. X-sec: implement setting of Center-Line display settings, interp, extrap, all center-lines, parallel lines, and all line widths and colors
39. X-sec: add option to auto-rotate the Center-Line definition text so it may run parallel along the Center-Line
40. X-sec: implement being able to display 10 layers above and 5 layers below the payzone
41. X-sec: implement setting the display of bed labels, offset beds, and zone in/out stats
42. X-sec: add option to override Auto and manually set the first depth at which the wellbore should be considered in-zone for zone in/out stats
43. X-sec: implement setting payzone top/target/base/offset-bed line widths, bed fill density, and fill density line width
44. X-sec: add option to set a payzone marker bed target line override color instead of it being inherited from the payzone color
45. X-sec: enhance bed label annotation "dodging" and automatically change bed label text color to similar but darker, if source color is light
46. X-sec: implement setting survey MD annotation leader-line / font / drawing properties
47. X-sec: implement setting individual survey annotations properties, including anno leader-line / anno font / drawing properties and text rotation angle manual override
48. X-sec: improve arrows at depths and add posting of RSD distance from deepest calibrated depth to Target (i.e., report current RSD distance to target on RSD inset)

49. X-sec: create a secondary properties dialog screen to support editing/setting select new cross-section features, including single annotation level leaderline/font/rotationangle properties, RSD Track inset properties, Map View inset properties, and many other properties

SES v4.89 Release Notes

1. (4.89) X-sec: bug fix with respect to Inset RSD Track not displaying with very large datasets.
2. PLEASE NOTE: v5 IS BEING DEVELOPED FOR Q1-2014 RELEASE. Only "emergency" updates will be released before then.

SES v4.88 Release Notes

1. (4.88) X-sec: enhance grid data interpolation ahead of Survey TD by extrapolating along the Plan if available, otherwise from current Survey TD along a linear projection at vertical section azimuth

SES v4.87 Release Notes

1. (4.87) THD: make change to reduce likelihood of divergent condition arising during calculation of technical hole deviation (THD)

SES v4.86 Release Notes

1. (4.86) FIX TO WINDOWS UPDATE CAUSING ERROR IN PARAMTUNER AFTER ADDING A NEW BLOCK. Microsoft published an "Important/Critical" Windows Update 10-Sep-2013 that affects SES on Access 2007/2010/2013. The Update produces "ERROR 3021 - No Current Record" in ParamTuner after adding a new 3DSB. The error was a nuisance and had several workarounds but each required more clicks/time. SELLC became fully aware of the issue 27-Sep. On 1-Oct, SELLC spent 6+ hours on the phone with Microsoft technical support. From others too Microsoft was aware that the Update has bugs and they were working on a patch. After much coding, a portion of SES was entirely revamped to entirely circumvent the Microsoft Update bug, and SES v4.86 was released 4-Oct. If you can't upgrade at this time, please Uninstall the problem Update, Check for Updates again, and then Mark it Hidden to prevent subsequent installs. We apologize for this inconvenience but are glad we now have a totally solid workaround that works perfectly with the problem Update installed. The problem Update is called "Security Update for Microsoft Office 2XXX (KBXXXXXXX)" depending on the version of Office and is approximately 3MB in size. For Office 2013, it's KB2810009; for 2010 it's KB2687423; and for 2007 it's KB2596825.
2. (4.86) Multiple: various improvements and minor bug fixes

SES v4.85 Release Notes

1. (4.85) X-sec: add feature to post an inset RSD track that results from a select marker bed / interpretation, with control of track size and track placement and multiple display options and attributes
2. (4.85) X-sec: add more display options to inset map view

3. (4.85) Multiple: various improvements and minor bug fixes

SES v4.84 Release Notes

1. (4.84) X-sec: add option to set inst map view title/header text
2. (4.84) PT: bug-fix on changing the currently displayed type log(s) directly

SES v4.83 Release Notes

1. (4.83) PT: add feature to easily change the currently displayed type log(s) directly
2. (4.83) PT: add more automatic zoom options to RSD track views
3. (4.83) X-sec: add feature to post an inset map view of surveys and well plan directly on a cross-section, with control of map size and map placement and other display attributes
4. (4.83) X-sec: make Zoom-After-Preview setting a stored user preference (i.e., user-specific and retained between sessions)
5. (4.83) Utilities: add stored user preference MRU/"favorites" list from prior selected SES databases and allow for one-click linking for fast database switching
6. (4.83) Utilities: enhance floating-network license seat notification/reporting
7. (4.83) System: make up to 16 custom colors set with the color palette a stored user preference for easy re-use/selection of favorite colors
8. (4.83) Multiple: various improvements and minor bug fixes

SES v4.82 Release Notes

1. (4.82) PT: add display of apparent bed dip along vertical section azimuth (VSA) plane
2. (4.82) PT: add display of apparent bed inclination along VSA plane
3. (4.82) PT: add multiple automatic zoom options to RSD track views
4. (4.82) PT: enhance starting/default RSD track views when calibrating first 3DSB of an interpretation
5. (4.82) PT: make structural cross-section have default focus after most operations so an immediate mouse wheel roll scrolls the cross-section (often eliminates one subsequent mouse click)
6. (4.82) X-sec: enhance grid data plotting ahead of survey TD (extrapolation)
7. (4.82) X-sec: change sign convention in data export calculation such that apparent dip of beds along VSA match convention in ParamTuner (+ for up-dip, - for down-dip)
8. (4.82) Multiple: various adjustments to make SES compatible with simplified Chinese version of Microsoft Office/Windows

SES v4.81 Release Notes

1. (4.81) Surv: enhance LAS file import processing and file-error reporting
2. (4.81) TL: enhance LAS file import processing and file-error reporting

3. (4.81) LWD: enhance LAS file import processing and file-error reporting
4. (4.81) X-sec: add option to set MD-step frequency of cross-section data export
5. (4.81) X-sec: add LAS (CWLS LAS version 3.0) file format option of cross-section data export
6. (4.81) X-sec add data export behavior such that LAS format creates a unique-MD dataset
7. (4.81) X-sec: add inclination column/values to display under "MD Min" dropdown box
8. (4.81) X-sec: bug fix LWD curve axis min/max label values when curve is configured for Log format
9. (4.81) Utilities: add ability to check floating-network license seat status when all seats are full
10. (4.81) Multiple: various improvements and minor bug fixes

SES v4.80 Release Notes

1. (4.80) X-sec: add option to display rotated general survey annotations along wellbore length
2. (4.80) X-sec: add general survey annotations settings control of MD insertion, leader line color/width/length, background fill behind text, and annotation font color and font size
3. (4.80) X-sec: add option for background fill behind MD annotations

SES v4.79 Release Notes

1. (4.79) X-sec: enhance center-line parameters label placement
2. (4.79) X-sec: add option to display all/other defined center-lines specific to a survey
3. (4.79) X-sec: add line color and width settings control of all/other center-lines
4. (4.79) X-sec: add option to display all/other surveys (e.g. original hole, sidetracks)
5. (4.79) X-sec: add line color and width settings control of all/other survey curves
6. (4.79) X-sec: add option to display rotated MD annotations along wellbore length
7. (4.79) X-sec: add MD annotations settings control of MD frequency, leader line color/width/length, and MD label font color and font size

SES v4.78 Release Notes

1. (4.78) PT: enhance derived type log creation behavior by allowing specification of StratDepth at RSD=0 (vice assuming 1000), with default value being active type log payzone top
2. (4.78) X-sec: add two new triggers to set "FirstDepth" for in-zone statistics as first occurrence of up-dip drilling or first depth where wellbore inclination decreases after reaching 80°
3. (4.78) X-sec: add line color and width settings control of survey curve
4. (4.78) X-sec: add circle color and radius settings control of survey station points
5. (4.78) X-sec: add line color and width settings control of plan curve
6. (4.78) X-sec: add line color and width settings control of grid interpolation curve

7. (4.78) X-sec: add line color and width settings control of grid extrapolation curve
8. (4.78) X-sec: add line color and width settings control of center-line interpolation curve
9. (4.78) X-sec: add line color and width settings control of center-line extrapolation curve
10. (4.78) X-sec: add width setting control of LWD data curves
11. (4.78) X-sec: add width setting control of LWD constant curves
12. (4.78) X-sec: add width setting control of marker and offset bed fill
13. (4.78) X-sec: add width setting control of marker bed top curve
14. (4.78) X-sec: add line color and width settings control of marker bed target curve
15. (4.78) X-sec: add width setting control of marker bed base curve
16. (4.78) X-sec: add width setting control of offset bed curves

SES v4.77 Release Notes

1. (4.77) PT: add toggle button to disable/enable RSD extents panning on inner/right RSD track
2. (4.77) PT: add double-click feature on inner/right RSD track to toggle RSD extents panning
3. (4.77) Utilities: create simplified online flash-drive license activation system
4. (4.77) Utilities: add floating-network license activity logging (e.g., use, denials)
5. (4.77) Utilities: add floating-network license check-out logging
6. (4.77) Utilities: add floating-network summary report capabilities
7. (4.77) System: add enhanced installation options to better support application virtualization deployment and packaging SES installer for corporate installation deployment

SES v4.76 Release Notes

1. (4.76) Wells: add user preference to set well list sort order for WELLS and SES screens
2. (4.76) Surv: enhance WITSML functionality regarding units (G&G)
3. (4.76) LWD: enhance WITSML functionality regarding units (G&G)

SES v4.75 Release Notes

1. (4.75) SES: resolve screen resize issue related to monitors with perpendicular dimensions exceeding 22 inches
2. (4.75) PT: resolve screen resize issue related to monitors with perpendicular dimensions exceeding 22 inches
3. (4.75) System: various enhancements

SES v4.74 Release Notes

1. (4.74) LWD: enhance WITSML functionality to maintain compliance with data schema 1.4 (G&G)
2. (4.74) System: enhance floating-network licensing options within a single domain

SES v4.73 Release Notes

1. (4.73) Surv: enhance WITSML functionality after testing SES on two additional servers (G&G)
2. (4.73) LWD: enhance WITSML functionality after testing SES on two additional servers (G&G)
3. (4.73) Multiple: add additional error messaging
4. (4.73) System: change SES installer to create SES shortcuts for All users vice Current user

SES v4.72 Release Notes

1. (4.72) Utilities: add proxy server configuration and connection capabilities for WITSML server functionality (needed by some internal networks)
2. (4.72) Multiple: add additional data quality control messaging

SES v4.71 Release Notes

1. (4.71) Surv: plot gray stations from other surveys/sidetracks on vertical section view if VSA is same
2. (4.71) Surv: enhance WITSML functionality after testing SES on three additional servers (G&G)
3. (4.71) LWD: enhance WITSML functionality after testing SES on three additional servers (G&G)
4. (4.71) Multiple: add additional data quality control messaging
5. (4.71) Utilities: enhance WITSML functionality after testing SES on three additional servers (G&G)

SES v4.70 Release Notes

1. (4.70) Surv: add EXPORT feature in LAS format (CWLS LAS version 3.0)
2. (4.70) Surv: enhance Grid data plotting QC
3. (4.70) Plan: add EXPORT feature in LAS format (CWLS LAS version 3.0)
4. (4.70) Plan: enhance Grid data plotting QC
5. (4.70) LWD: add EXPORT feature in LAS format (CWLS LAS version 3.0)
6. (4.70) LWD: enhance LAS file import Append feature with an optional Auto feature that makes it easier to append data with multiple curves possessing variable measurement lag
7. (4.70) LWD: enhance WITSML data import Append feature with an optional Auto feature that makes it easier to append data with multiple curves possessing variable measurement lag (G&G)
8. (4.70) THD: add EXPORT feature in LAS format (CWLS LAS version 3.0)
9. (4.70) Utilities: add floating-network temporary license check-in/check-out feature for SES use while away from the network (0 to 9 days, with on-demand/immediate check-in supported)

SES v4.69 Release Notes

1. (4.69) Wells: enhance SES xml file importer to automatically detect and convert files from Unix to DOS format (some systems inadvertently change SES xml text files to Unix format when emailed/ftp'd)
2. (4.69) LWD: enhance WITSML data import with user-set quantizing of raw server data (G&G)
3. (4.69) LWD: enhance WITSML data import to allow 'chunking', in order to successively download and process raw server data (e.g., in 20000 record 'chunks') and create complete usable quantized LWD datasets comparable to traditional LAS file data (G&G)

SES v4.68 Release Notes

1. (4.68) System: enhance floating-network license seat-status reporting
2. (4.68) System: add feature to easily deactivate machine-specific license for transfer purposes
3. (4.68) System: create simplified online machine-specific license activation system

SES v4.67 Release Notes

1. (4.67) Surv: add feature to download/import MD/Inc/Azi directly from a WITSML server (G&G)
2. (4.67) LWD: add feature to download/import LWD data directly from a WITSML server (G&G)
3. (4.67) Wells: add feature to browse a WITSML server to select the matching server well
4. (4.67) Utilities: add feature to setup WITSML server access; up to three different servers
5. (4.67) System: create SESUser.mdb as new auto-generated run-time folder database to store all custom user & WITSML server settings so upgrades won't overwrite such settings in future upgrades

SES v4.65 Release Notes

1. (4.65) Surv: add feature to automatically convert a survey into a new SES well plan
2. (4.65) Surv: enhance LAS importer to support line-wrapped files (DOS & UNIX formats)
3. (4.65) Surv: enhance LAS importer with an append-only feature (for easier LAS file splicing)
4. (4.65) Surv: add toggle button to lock/retain zoomed axes limits between successive refreshes
5. (4.65) Plan: shade ID column if detected target TYPE is valid
6. (4.65) Plan: add toggle button to lock/retain zoomed axes limits between successive refreshes
7. (4.65) Plan: make table width adjustable and store setting value (for monitor-size versatility)
8. (4.65) Plan: add double-click within 'ID' cell to insert a blank plan target row above current row
9. (4.65) LWD: add survey interpolation option to linearly extrapolate beyond survey TD
10. (4.65) LWD: enhance data validity verification of parameter keypunch values
11. (4.65) LWD: enhance LAS importer to support line-wrapped files (DOS & UNIX formats)
12. (4.65) LWD: enhance LAS importer with an append-only feature (for easier LAS file splicing)
13. (4.65) TL: enhance LAS importer to support line-wrapped files (DOS & UNIX formats)

14. (4.65) TL: enhance LAS importer with an append-only feature (for easier LAS file splicing)
15. (4.65) TL: add type log EXPORT feature in LAS format (CWLS LAS version 3.0)
16. (4.65) TL: add toggle button to lock/retain zoomed RSD/SD range between successive refreshes
17. (4.65) TL: add feature to copy/poke offset bed thicknesses to a Marker Bed
18. (4.65) TL: make graph width adjustable and store setting value (for monitor-size versatility)
19. (4.65) PT: change maximum dip magnitude via dragging 'End | Dip' line to be 40°
20. (4.65) PT: add toggle button to lock/retain MD range between successive loads
21. (4.65) PT: add toggle button to lock/retain TVD range while MD-scrolling and between loads
22. (4.65) PT: improve multi-curve display behavior
23. (4.65) PT: make both RSD track widths independently adjustable and store setting values (for monitor-size versatility)
24. (4.65) PT: add non-intrusive cursor tracking on right/inner RSD track
25. (4.65) PT: add feature to enable primary LWD curve data smoothing (central moving average)
26. (4.65) THD: enhance THD calculation algorithm for when 3DSB governs planned TVD/Inc., reduce tolerances, and output horizontal distance as VD within vertical well plan hole sections
27. (4.65) X-sec: add select-printer feature vice using default printer only (work-around to fix stray line connecting first-last points in some print jobs sent directly from print-preview)
28. (4.65) X-sec: add feature to interpolate grid data beyond TD (i.e., extrapolate wellbore along VS line)
29. (4.65) X-sec: enhance high resolution (1-ft|0.25m MD) data export CSV to also include: RSD; TVD coordinates of all offset beds in local and global coordinate systems; automatic wellbore/zone classification within payzone, all offset beds, and 'zones' beyond defined offset beds; gross and net zone in/out summary tables including zone name, footage in zone, and percent in zone; full wellbore survey coordinates and angles via minimum curvature interpolation
30. (4.65) X-sec: add feature to calculate and post zone in/out summary table at survey TD
31. (4.65) Multiple: resize certain table columns for improved appearance with Office 2007|2010
32. (4.65) Utilities: allow for trial license-code request to originate from tab on UTILITIES screen
33. (4.65) System: allow for FREE features by default
34. (4.65) System: release floating-network license seat immediately from File, Exit menu click
35. (4.65) System: add graphics to notify user of active feature option and active license format
36. (4.65) System: notify user if no write permission to run-time folder or database folder is detected