Hampson-Russell
A CGGVeritas Company

Release Notes - Software Release CE8/R1.2

(Last Revision: July 16, 2007)

Software Release Date: July 16, 2007

List of Products:

Product Name:	Features supplied and corresponding version numbers:			Comments:
AFI	afi (3.2)			Must also have AVO.
AVO	avo (7.2)	geoview (5.2) pro3d (7.2)	elog (5.2)	
eLog	elog (5.2)	geoview (5.2)		
EMERGE	emerge (5.2)	geoview (5.2)	elog (5.2)	
GLI3D	gli3d (8.2)			
ISMap	ismap (6.2)	geoview (5.2)		
Pro4D	pro4d (3.2)	geoview (5.2)		
ProMC	promc (2.2)	geoview (5.2)		
STRATA	strata (7.2)	geoview (5.2) bstrata (7.2)	elog (5.2)	
GeoView	geoview (5.2)	seisloader (1.2)		Please read a disclaimer notice below.
		view3d (1.2)		Please read a disclaimer notice below.

	Licenses Supplied with Products														
Product Name:	afi 3.00	avo 7.00	bstrata 7.00	elog 5.00	emerge 5.00	geoview 5.00	gli3d 8.00	glipick 8.00	ismap 6.00	pro3d 7.00	pro4d 3.00	promc 2.00	seisloader 1.00	strata 7.00	view3d 1.00
AFI	+														
AVO		+		+		+				+			+		+
AVO modeling		+		+		+							+		+
AVO processing						+				+			+		+
eLOG				+		+									
EMERGE				+	+	+							+		+
GLI3D							+	+							
ISMap						+			+				+		+
Pro4D						+					+		+		+
ProMC						+						+	+		+
STRATA			+	+		+							+	+	+

List of New Features and Enhancements:

Summary

This is a patch release, containing rigorous bug fixes, some enhancements and an expansion of the online help.

Details

GEOVIEW

1. Added a “Yes to All” dialog when importing multiple wells with curves. (#876)
2. Set the default to change the depth-time table in the datum specification window. (#1929)
3. The seismic reference datum (SRD) recalculation with a new V_0 has been corrected. (#2004)
4. Well deviation units are now set to be the same as the coordinate domain units in the Well Explorer if the two sets of units initially differ. (#2012)
5. Fixed the log import option for not updating the top depth units or KB setting. (#2016)
6. Clients can now select a layer color for all culture data files. (#2021)
7. The case sensitivity of the spelling of the imperial default units parameter file has been corrected for Linux systems. Other systems were unaffected. (#2043)
8. Corrected the handling of duplicate dip and azimuth entries in the deviated geometry calculation. The minimum curvature calculation also works correctly now. (#2078)
9. Increased the precision for calculating TVD and MD for deviated wells. (#2099)
10. LAS file input with TVD, and X and Y coordinates in units that do not match the domain units of the well, is now handled correctly. (#2100)
11. For LAS files, deviated geometry X and Y units are now read. (#2168)
12. Multiple copies of a depth-time curve with the log type "Unknown" will now not be created. (#2169)
13. “Kelly Bushing” is no longer misspelled in the Exporting Deviated Geometry dialog. (#2170)

Well Exchange / OpenWorks

14. Continued with improvements to log type and log unit mapping. (#1578)
15. Duplicate wells with the same name in OpenWorks are now presented uniquely. (#2076)
16. Improvements made in loading check-shots from OpenWorks, and in discriminating between check-shots and time-depth curves. (#2064)
17. Handling of parameters between tabs on the Import and Export dialogs is improved. The control of the OK, Reset, Next and Prev buttons is better. (#2190)
18. The Help menu has been connected to bring up the HR Assistant and the Runtime Messages. (#2191)

eLOG

19. Added an automatic fix for increasing domain values after check shot/correlation and other editing options. (#1398)

20. Allow clients to use an Induction log or a Resistivity log for the water saturation transform. (#1249)
21. Corrected the confusion about fractional or percent units when plotting an S_w log. (#2052)
22. Fixed a problem with the composite trace extraction where clients were continually asked for confirmation, even when clients had requested not to ask. (#2063)
23. Changed the default to copy the depth-time table in the P-wave copy option. (#2071)

Fluid Replacement Modeling (FRM)

24. Fixed incorrect Gas Gravity units in the Fluid Calculator. (#2018)
25. Greenberg-Castagna calculation should behave as expected (according to Mavko) and should be much more stable. (#1378)
26. The defaults for fluid calculations have been changed from Batzle-Wang to FLAG. (#2189)

AFI

No change.

AVO

AVO Analysis and Processing:

27. AVO now plots multiple gradient curve information in the pick analysis view. This fixes the Pick Analysis crashing when displaying the Curves information. (#2053)

See also the GENERAL section below for seismic data handling and other general improvements.

AVO Modeling:

No change.

See also eLog section above for more log curves related editing and FRM.

EMERGE

28. Clients are not allowed to give an already used name for a multi-attribute list on which an operator length is applied. Clients are now prompted about the name being used. (#1576)
29. Added a view option to set the display amplitude range for non-target log tracks. (#1292)
30. The track annotation for the predicted log (from log) in the Apply Training Results window has been corrected. (#1995)

See also the GENERAL section below for seismic data handling and other general improvements.

GLI3D

No change.

ISMap

31. The locations of tops from a deviated well are now correct even if the deviated geometry has a depth domain unit different than the surface location unit. (#2015)

Pro4D

No change.

See eLog above for some items related to well log editing and FRM. See also the GENERAL section below for seismic data handling and other general improvements.

ProMC

No change.

See also the GENERAL section below for seismic data handling and see eLog above for items related to well log editing and improved FRM.

STRATA

32. Set Model Parameters now works for multiple 2D. This solves several issues including toplap and baselap, and filters from the parameters menu. Problems with the priority of horizons crossing in multiple 2D lines have been resolved. (#1896)
33. STRATA now works correctly on inversion analysis and multi-well wavelet analysis with deviated wells and 3D data. (#1933)
34. The correct stack type is now written in the SEGY line header for pre-stack inversion output. (#1969)
35. The Model traces are now gathered correctly when the composite trace method is used for a deviated well in the Inversion Analysis window. (#2038)

36. Clients can now invert a single line from a large, merged 3D volume. The output for a merged 3D volume will now always be a concatenated, single volume, unless the entire data range is selected and the client chooses to turn off the concatenation option. (#2105)
37. Corrected the problem where the multiple 2D seismic line display with the Strata Model seems to have a CDP range limited to the shortest one of the many 2D lines. (#2115)
38. A colored operator now can be created from a 2D data set. (#1892)
39. In the Inversion Analysis window, Grid Unshown settings are no longer reset to Fine whenever the menu is applied. (#2067)
40. Within a single analysis session, it is now possible to keep the seismic plot standard deviation from well to well. (#2118)
41. It is now possible to run Post-Stack Inversion Analysis on multiple 2D lines using the non-deviated well option. (#2123)
42. Inversion analysis works correctly on angle gather data when the first angle trace is dead. (#2130)
43. Support Colored Inversion in Inversion Analysis. (#2142)
44. Spaces (blanks) in the project path for the multiple 2D lines model are now handled correctly. (#1993)

See also the GENERAL section below for seismic data handling and other general improvements, and see eLog above for some items related to well log editing.

GENERAL

45. CGM Hardcopy can now set the horizontal scale correctly for map displays. (#2111)
46. Added a CGM Hardcopy button to the Horizon display window in SeisLoader. (#2112)
47. CGM hardcopy seismic display parameters print out has been corrected. (#2080)

48. Data Slice: Culture data can now be shown on data slices or horizon maps. (#1965)
49. Data Slice: Switching off the "Mark Seismic Lines" button on a data slice now does not show the seismic lines. (#1873)
50. Data Slice: The "save settings as project default" option in the Map Display Menu on a data slice or base map now works properly. (#2019)

51. Base Map: The base map link cursor trace position jumping now works for 2D lines. Clients can double click in the base map to a specific 2D line and the seismic view will switch to the selected 2D line and match the position. (#2126)
52. Base Map: Clicking "View/Base Map" more than once on the seismic window works correctly each time. (#2156)

53. Horizons: Picking horizons on multiple 2D seismic data now works correctly. (#1875)
54. Horizons: Horizon order is no longer reset whenever the project is reloaded. (#2035)
55. Horizons: A smoothed 2D horizon now is plotted properly when there are missing picks or gaps. (#2032)

56. Cross Plot: Selecting P-wave Reflectivity as one of the cross plot attributes now works correctly. (#2140)

57. Cross Plot: The cross plot Add Zone Filter Points option works correctly for eLog on Linux and Solaris machines. (#2155)

58. SEGY File Handling: Added an option when opening a SEGY volume to set measurement and amplitude units to be either all imperial or all metric units. (#1349)
59. SEGY File Handling: X and Y coordinates from 2D SEGY seismic data are now loaded correctly. (#1915)

60. Time-Velocity Table: RMS velocities from the Time-Velocity table are now shown correctly as color background. (#2057)

61. Trace Plotting: The default cross plot filter selection for a seismic view will be the one that first matches the data loaded in the view. Otherwise, it will be the last set global zone filter. (#2029)
62. Trace Plotting: The inserted well log curve is shown correctly as a solid line when the first well in the display cross-section does not have the log type chosen. (#2084)
63. Trace Plotting: The seismic view will not "get stuck" in the wrong vertical display domain when there is mixed time and depth data. (#2098)
64. Trace Plotting: No tops are plotted on the inserted well when none of the user-selected tops are in the well. (#2109)
65. Trace Plotting: The velocity of the angle color background from the Time-Velocity table now shows up when the seismic window is first reloaded. (#2151)

66. Wavelet: Corrected the mix up in the X axis display ranges. (#2132)

SeisLoader

67. The linear equation to edit header values now works as expected. (#2056)
68. Can now change the offset unit without rescanning the SEGY file. (#2087)
69. The geometry items on the Geometry Page for 2D and multiple 2D SEGY data is now not shown. (#2088)

VIEW3D

70. A deviated well path now displays correctly for a crossline running North-South and an inline running East-West. (#2086)
71. The initial view of the 3D data has been scaled to have a better view of the survey cube. (#2011)
72. The loading process will complete correctly when large coordinates are read in. (#2026)

Hampson-Russell Assistant

73. Ongoing improvements to the help documentation and more Help button content sensitivity. (#2193)

FTP Download

The software installation images can be found at our ftp sites. Please visit **http://www.cggveritas.com/hampson-russell** for instructions and details.

CD and Package Labels

Platform	*Version*	*Date Label*
SUN / Sparc Solaris	CE8/R1.2	Jul 16, 2007
SGI / IRIX	CE8/R1.2	Jul 16, 2007
LINUX / Red Hat	CE8/R1.2	Jul 16, 2007
PC / Windows	CE8/R1.2	Jul 16, 2007

Supported Operating Systems:

1. SUN, Sparc Solaris 8, 9 and 10.
2. SGI, IRIX 6.5x (6.5.12m, 6.5.19f).
3. LINUX 32-bit, RedHat 9.0, Enterprise WS3/ES3/AS3, Enterprise WS4/ES4/AS4.
4. LINUX 64-bit, RedHat Enterprise WS4/ES4/AS4, SuSE 9.2.
5. Windows 2000, XP, Vista

Note: Some modules are not available for some platforms. See the Compilation Dates table below, visit our web site **http://www.cggveritas.com/hampson-russell,** or contact our support staff for more details.

Compilation Dates

Executable/Module	*Solaris*	*IRIX*	*Linux*	*Windows*
AFI	Jul 4, 2007	Jul 4, 2007	Jul 4, 2007	Jul 4, 2007
Autocal	Jul 5, 2007	Jul 5, 2007	Jul 5, 2007	Jul 4, 2007
AVO	Jul 4, 2007	Jul 4, 2007	Jul 4, 2007	Jul 4, 2007
eLog	Jul 4, 2007	Jul 4, 2007	Jul 4, 2007	Jul 4, 2007
EMERGE	Jul 4, 2007	Jul 4, 2007	Jul 5, 2007	Jul 4, 2007
GeoView(32-bit)	Jul 5, 2007	Jul 5, 2007	Jul 5, 2007	Jul 4, 2007
GeoView (64-bit)	Jul 5, 2007	Not Available	Jul 5, 2007	Not Available

logdialog	Jul 4, 2007	Jul 4, 2007	Jul 4, 2007	Jul 4, 2007
GLI3D	Jan 25, 2007	Jan 25, 2007	Jan 25, 2007	Not Available
ISMap	Jul 4, 2007	Jul 4, 2007	Jul 5, 2007	Jul 4, 2007
ismapEmerge	Jul 5, 2007	Jul 5, 2007	Jul 5, 2007	Jul 4, 2007
Pro4D	Jul 4, 2007	Jul 4, 2007	Jul 5, 2007	Jul 4, 2007
ProMC	Jul 4, 2007	Jul 4, 2007	Jul 5, 2007	Jul 4, 2007
SeisLoader(32-bit)	Jul 5, 2007	Jul 4, 2007	Jul 5, 2007	Jul 4, 2007
SeisLoader(64-bit)	Jul 5, 2007	Not Available	Jul 5, 2007	Not Available
STRATA	Jul 4, 2007	Jul 4, 2007	Jul 5, 2007	Jul 4, 2007
strataBatch(32-bit)	Jul 1, 2007	Jul 1, 2007	Jul 1, 2007	Jul 1, 2007
strataBatch(64-bit)	Jun 30, 2007	Not Available	Jul 4, 2007	Not Available
View3D (32-bit)	Not Available	Not Available	Not Available	Jul 4, 2007
View3D (64-bit)	Jul 4, 2007	Not Available	Jul 4, 2007	Not Available
swsv (SeisWorks) Emerald City R2003.12	Jan. 4, 2007	Jan. 30, 2007	Jan. 4, 2007	Not Available
WLEx (OpenWorks) Emerald City R2003.12	Jul 3, 2007	Jul 3, 2007	Jul 3, 2007	Not Available
WLEx (GeoFrame) 3.8.1	Oct. 24, 2004	Not Available	Not Available	Not Available
WLEx (GeoFrame) 4.0.2	Feb. 1, 2006	Not Available	Not Available	Not Available
WLEx (GeoFrame) 4.04	Feb. 1, 2006	Not Available	Not Available	Not Available
WLEX (GeoFrame) 4.2	Feb. 1, 2006	Not Available	Feb. 1, 2006	Not Available
OpenSpirit Version Supported	2.5, 2.6 & 2.7	Not Available	2.5, 2.6 & 2.7	2.6 & 2.7
OpenSpirit Version Compiled (Hampson-Russell client side)	2.7	Not Available	2.4	2.7
FlexLM Applications (geoview, avo, etc.)	8.1b	8.1b	9.5	8.1b
FlexLM License Manager (Hamp-Russ, and lmgrd package)	8.1b	8.1b	9.5 Red Hat only	8.1b

	Solaris	*IRIX*	*Linux*	*Windows*
Adobe (Acrobat) Reader is no longer included. If you need Adobe Acrobat, please see your IT department. Our help system is no longer in pdf format, but our tutorial guides are still in that format.				

Disclaimer for SeisLoader and View3D:

SeisLoader is one of the many new features added to the Hampson-Russell suite of software for the CE8R1 release. However, we specifically limit the licensing of SeisLoader to the CE8 release only, due to the nature of this product. Although we think you will find SeisLoader to be an excellent addition to our product line, with its simplified data loading, viewing, and ease of interpretation, SeisLoader is currently a prototype for the new seismic interpretation interface for all of our products.

We hope that you will use, enjoy and provide feedback on the interface over the coming months, and provide us with the information to refine the design and incorporate your ideas. The new seismic interpretation interface will be incorporated into our main product lines and SeisLoader as a stand-alone utility will then be removed in the CE9 release.

Similarly, View3D is a visualization tool which will be incorporated gradually into all our products.