

Geoloil PETROPHYSICS

Release January 2026



"A great petrophysics software must excel in four aspects:

- 1.- Designed after decades of petrophysics consulting.*
- 2.- Modern programming practices in compiler design and threads.*
- 3.- Advanced & innovative applied mathematical algorithms.*
- 4.- An outstanding and fast customer service.*

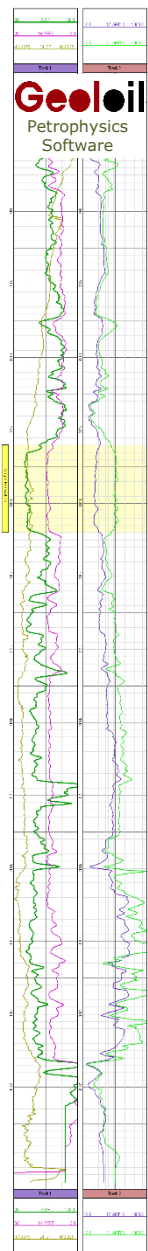
Well, we have all these traits." **Oscar Gonzalez.** *GeolOil LLC, Director* ■



Copilot GeolOil stands out as the petrophysics software with the strongest, most consistently praised customer service, based on publicly available user testimonials. Its reviews repeatedly highlight fast responses, personalized support, and hands-on guidance—far more explicitly than what is available for most competing platforms. **GeolOil**

geoloil.com





What is GeolOil Petrophysics Software?

GeolOil is a multiplatform **software and a consulting** company specialized in petrophysics, for conventional and un-conventional reservoirs, commercially available **since 2012**.

It has an intuitive graphical user interface, easy to use, with readable bold buttons and plenty of options. GeolOil intuitive, yet powerful modules, run on Windows, MacOS, and Linux.

GeolOil ranks in **Google search** among the top petrophysics software. And also, when searching the terms: *Vshale*, *Vclay*, *Mineral Solvers*, etc.

Google petrophysics software

AI Mode **All** Shopping Images Videos Short videos News More ▾ Tools

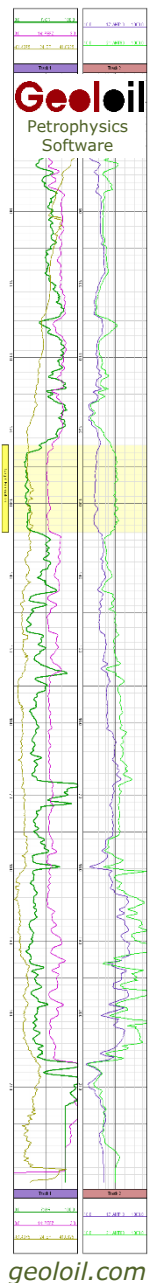
GeolOil
<https://geoloil.com>
GeolOil Petrophysics software for Windows, MacOS, and ...
 GeolOil is a **software** company for **petrophysics** interpretation on Windows, MacOS, and Linux. We offer a trial LAS well log viewer and displayer.

SLB
<https://www.slb.com> › ... › Subsurface
Petrophysics solutions
 Oct 22, 2022 — **Petrophysics** solutions understand near wellbore rock properties, enhance characterization, and optimize drilling and completions strategies.

Halliburton
<https://www.halliburton.com> › products › geosciences-suite
Petrophysics & geomechanics
 A user-friendly, integrated solution that connects subsurface evaluation and reservoir engineering workflows for single and multi-well studies.

Some GeolOil features:

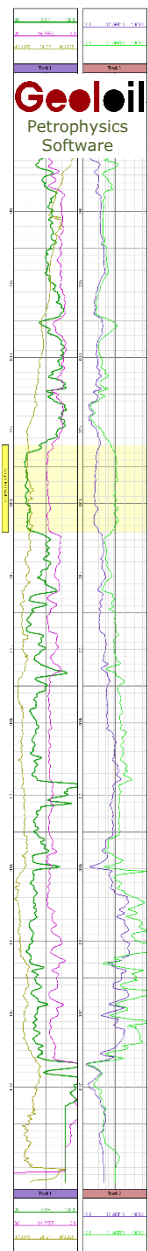
Edit LAS files, add & remove curves
Re-sample LAS files resolution
Merge LAS files and curves
Table view, editing & shifting
Define Tracks with curves
Define well stratigraphy
Display log curves and fillings
Filter & export log curves to Excel
View Raster Well Logs TIFF & images
Petrophysical functions & equations
Water Analysis & Ionic mEq balance
GLS Scripting & Type equations
Mineral Solvers
Porosity and Water Sat. Upscaling
NetPay, NetSand, Hydroc. column



GeolOil Modules

- LAS file Editor
- Curves Plot Displayer
- Workflow of Petrophysical Functions and classical equations & correlations.
- Mineral solvers included in the core. Fuzzy Logic Artificial Intelligence.
- GLS Specific **Petrophysics Scripting** and library
- Alias & Named constants Editor
- Multi-well workflows and functions
- Petrophysical summaries and curve filtering
- Ionic Water Analysis
- Raster well log viewer of TIFF and other image formats
- 3D reservoir simulation gridding (not for licensing, just consulting)





LAS File Editor

Geoloil LAS logs module

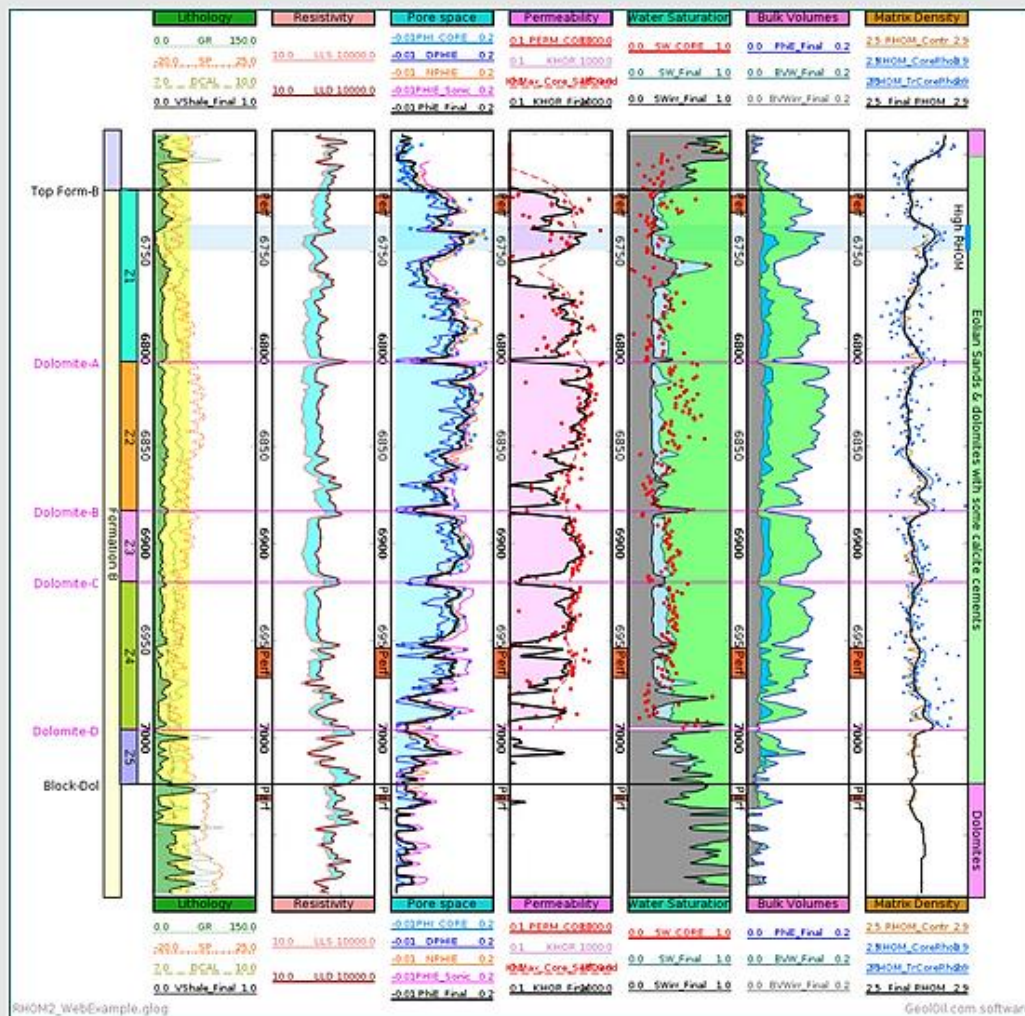
Save GLOG | Geoloil-LOG: test.glog | Export LAS | snapshot | Export Plot | Plots Help

	1: DEPT	2: GRGC	3: SPCG	4: NPRS	5: CLDC	6: DCOR	7: DEN	8: PDPE
Curves	913.0	138.565	16.644	39.174	6.758	0.074	2.365	2.895
Well info.	913.5	139.071	16.625	37.678	6.767	0.088	2.354	2.762
Parameters	914.0	134.039	16.788	36.476	6.822	0.092	2.351	2.774
LAS version	914.5	128.355	17.102	35.617	6.757	0.086	2.351	2.815
Other	915.0	122.648	17.462	35.088	6.694	0.084	2.343	2.781
LAS text	915.5	120.625	17.445	35.641	6.609	0.096	2.317	2.68
Edit Table	916.0	121.357	17.281	36.53	6.549	0.114	2.28	2.569
Display	916.5	122.728	16.753	36.529	6.531	0.128	2.253	2.454
Geom. path	917.0	124.248	16.14	35.638	6.553	0.122	2.244	2.387
Upscaling	917.5	123.873	15.472	33.661	6.538	0.102	2.277	2.338
	918.0	122.89	14.884	31.579	6.555	0.093	2.339	2.295
	918.5	120.872	14.4	29.805	6.516	0.09	2.398	2.269
	919.0	117.738	13.853	28.556	6.358	0.087	2.438	2.252
	919.5	120.172	13.302	28.188	6.28	0.079	2.455	2.27
	920.0	126.295	12.902	28.22	6.305	0.068	2.459	2.321
	920.5	129.807	12.578	28.515	6.355	0.067	2.468	2.365
	921.0	126.359	12.791	28.462	6.381	0.066	2.474	2.39
	921.5	119.938	12.775	27.668	6.371	0.064	2.482	2.383
	922.0	113.177	13.07	26.375	6.362	0.059	2.485	2.362
	922.5	109.044	12.874	25.093	6.364	0.05	2.473	2.339
	923.0	109.117	12.805	24.15	6.366	0.043	2.465	2.322
	923.5	108.389	12.856	23.155	6.367	0.039	2.459	2.327
	924.0	105.802	13.351	22.117	6.41	0.041	2.461	2.349
	924.5	98.738	13.954	21.575	6.477	0.047	2.466	2.372
	925.0	87.454	14.737	21.786	6.484	0.053	2.459	2.374
	925.5	76.283	15.572	22.297	6.459	0.055	2.434	2.359
	926.0	66.336	16.098	22.701	6.396	0.051	2.392	2.348
	926.5	58.417	16.253	23.128	6.31	0.044	2.356	2.36
	927.0	57.901	15.939	24.041	6.271	0.045	2.344	2.411
	927.5	59.219	15.866	25.266	6.252	0.052	2.333	2.433
	928.0	56.59	15.614	26.349	6.186	0.063	2.31	2.403

This module allows to fully edit LAS files: curve values, mnemonic names, well and parameter sections, export curves, import curves, import core data, remove curves, add curves, reorder curve positions, merge curves, generate TVD depth curves, generate TVD-SS depth curves, and more.

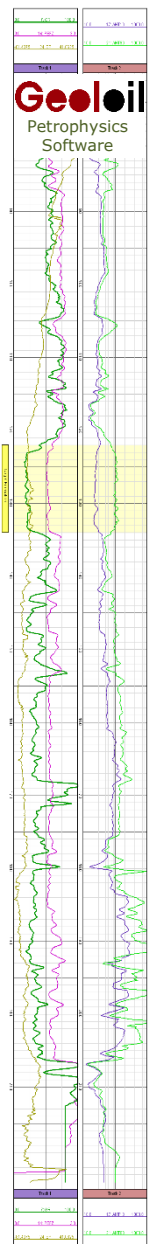
It also allows to re-sample LAS files to change to a higher or lower depth step resolution, and merge several LAS files into a single new consolidated LAS file.

Curves Displayer



This module allows to plot LAS curves, define the well stratigraphy, the well path through its directional survey file, the well surface location in Google Maps, and display the log curves and zones.

It has capabilities to shade zones, handle transparency, and even to measure TVD distances between zones for non vertical wells. Its use is very intuitive and simple.



Well Geometry Header

Common short well name:

Depths & Survey Distance Units:

Log datum height to sea level:

X-Y coordinates at surface:

N-S Latitude, E-W Longitude:

Well Path Geometry:

[Google Map](#) [Load Survey File](#) [Export Survey File](#)

Directional Survey:

MD	TVD	DX	DY	INC	AZI
0.0	0.0	0.0	0.0	0.0	0.0
583.0	583.0	0.07	-1.01	0.2	175.9
707.0	706.99	1.12	-0.64	1.1	60.5
798.0	797.94	3.48	1.21	2.7	48.3
897.0	896.76	7.9	5.21	4.2	47.5
987.0	986.51	12.83	9.7	4.3	47.8
1078.0	1077.26	17.82	14.24	4.2	47.7
1170.0	1169.01	22.86	18.83	4.3	47.7
1262.0	1260.75	27.85	23.48	4.2	46.2
1357.0	1355.5	32.95	28.2	4.2	45.3
1454.0	1452.26	38.07	32.76	3.9	46.3
1551.0	1549.03	43.03	37.11	3.9	49.1
1649.0	1646.8	48.21	41.43	4.0	51.3
1681.0	1678.72	49.9	42.81	3.8	50.1
1779.0	1776.51	54.62	47.25	3.8	43.5
1876.0	1873.31	59.0	51.73	3.6	45.2
1973.0	1970.11	63.2	56.14	3.6	42.0
2070.0	2066.92	67.33	60.73	3.7	42.0
2148.0	2144.71	71.34	64.79	4.7	46.7
2243.0	2239.37	77.24	70.24	5.0	47.8
2341.0	2336.99	83.53	76.14	5.1	45.9
2437.0	2432.61	89.56	82.17	5.1	44.1
2535.0	2530.23	95.34	88.46	4.9	41.0
2631.0	2625.88	100.8	94.69	5.0	41.5
2728.0	2722.48	106.55	101.23	5.3	41.1

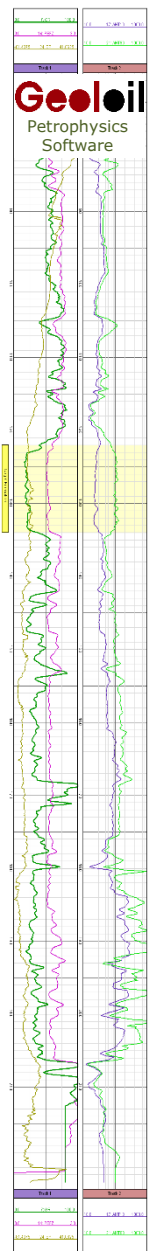
GeolOil allows to load the 3D well path and connects with Google Maps Satellite View:



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Workflow of Petrophysical Functions and Classical Equations & Correlations



claySolver

Save as unlock i claySolver.glog E.LAS E.Plot CC 0.7 1.4

Function List Edit UID=62: Kaolinite

Output Transform Vshale Porosity Permeab. Resist./Temp. Satur./TOC Geomech. Minerals:7 Scripting

SPECS UID 62 = Kaolinite : Mineral Solver: Kaolinite

Help Calculate Comments: Type a comment for minerals solver calculation

— E: Quartz, Silt, Illite, Smectite, Kaolinite, Chlorite Option 7:

7: Clastic solver Quartz, Silt, Illite, Smectite, Kaolinite, Chlorite, from VSH, GR, PEF, and RHOB

VSH = 64 ☐ is a constant ☒ is a curve number. Vshale (VV), try to use a VSH_{NeutDens} estimator

GR = 38 ☐ is a constant ☒ is a curve number. Gamma Ray (gapi)

PEF = 39 ☐ is a constant ☒ is a curve number. Photoelectric factor curve: PEF, PE or similars (B/E)

ρ_{bulk} = 43 ☐ is a constant ☒ is a curve number. Density (gr/cc) like RHOB, RHOZ, DENS or similars.

Silt_{Prop} = 0.25 ☒ is a constant ☐ is a curve number. Proportion of silt in pure shale, around 0.1-0.4

Silt_{PEF} = 1.90 ☒ is a constant ☐ is a curve number. Typical PEF value (B/E) of silt, around 1.8-2.0

ρ_{silt} = 2.65 ☒ is a constant ☐ is a curve number. Typical silt density (gr/cc), around 2.62-2.68

ρ_{fluid} = 1.00 ☒ is a constant ☐ is a curve number. Typical fluid density (gr/cc), around 0.95-1.10

NaCl = 10000 ☒ is a constant ☐ is a curve number. Formation water salinity (Equivalent PPM of NaCl)

Toler. = 0.50 ☒ is a constant ☐ is a curve number. Tolerance error, 0:Exact solution, ≥ 1 Poor solution

☐ Matrix density (RHOB gr/cc) is the output curve: equivalent grain density suggested for porosity estimation

☐ Convergence Error is the output curve, 0: Exact solution was found, >0 A non exact solution was accepted

☐ Quartz proportion (VV) in the matrix is the output curve.

☐ Silt proportion (VV) in the matrix is the output curve.

☐ Illite proportion (VV) in the matrix is the output curve.

☐ Smectite proportion (VV) in the matrix is the output curve.

☒ Kaolinite proportion (VV) in the matrix is the output curve.

☐ Chlorite proportion (VV) in the matrix is the output curve.

☐ Quartz proportion (VV) in the matrix is the output curve.

☐ Silt+Quartz=VShale aggregated proportion (VV) in the matrix is the output curve.

☐ Illite+Silt+Quartz aggregated proportion (VV) in the matrix is the output curve.

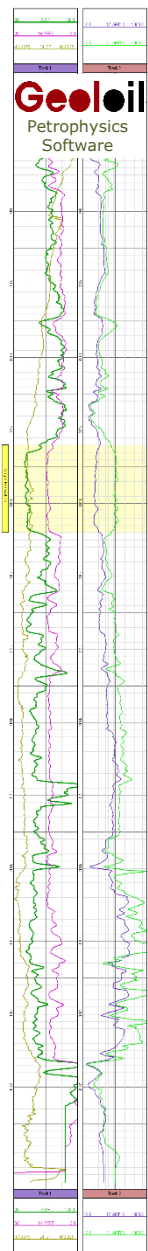
☐ Smectite+Illite+Silt+Quartz aggregated proportion (VV) in the matrix is the output curve.

☐ Kaolinite+Smectite+Illite+Silt+Quartz aggregated proportion (VV) in the matrix is the output curve.

☐ Chlorite+Kaolinite+Smectite+Illite+Silt+Quartz proportion (VV) in the matrix is the output curve.

The Sequential Petrophysical Functions module allows to compute log functions specifying a dependency order to update the interpretation analysis.

Besides standard formulas for Vshale, Porosity, Water Saturation and more, the module adds curve transforms for kernel smoothing, interpolation, algebraic functions, curve merging and more.



GeolOil - The GLS Well Logging Scripting Programming Language

"GeolOil has strong programming capabilities in GLS and Groovy."

Enis Aliko. Senior Drilling Engineer. Wellynx. Italy. ■

How many times have you needed to create or modify a log curve, using your equations and algorithms, only to discover that other petrophysical software offer limited choices? How many times have you ended using *Excel* spreadsheets, or *Python* script routines?

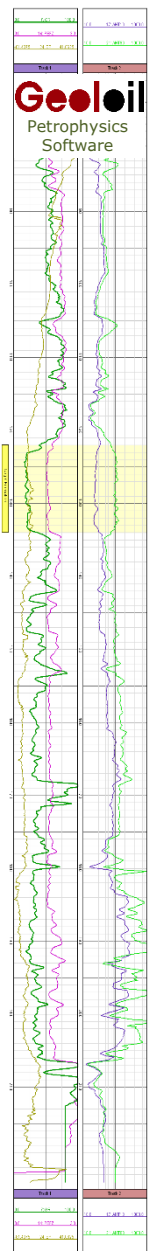
GLS GeolOil Logging Scripting is perhaps the easiest tool to write your own simple and short source code. Type your own equations, calibrations, variable petrophysical parameters per zone in a curve, or design your own functions and algorithms quickly. For example, the classical Archie SW water saturation to enforce its result to 0-1 can be scripted as:

```
phi = @13;  rt = @7;  rw = @10
a    = 0.81;  m = 1.9;  n = 1.8
F    = a/(phi^m);  SW = (F*rw/rt)^(1/n)
SW   = trim (0, SW, 1)
```

where porosity is the LAS curve number 13, deep or true resistivity the curve 7, and formation water resistivity the curve 10. No worries about missed -999.25 values in any curves. GeolOil will analyze, compile and run your code behind the scenes (check the [GLS Reference Manual](#) for details). You can also of course compute SW easily with our collection of 24 built-in, out of the box GUI water saturation models.

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Alias Editor

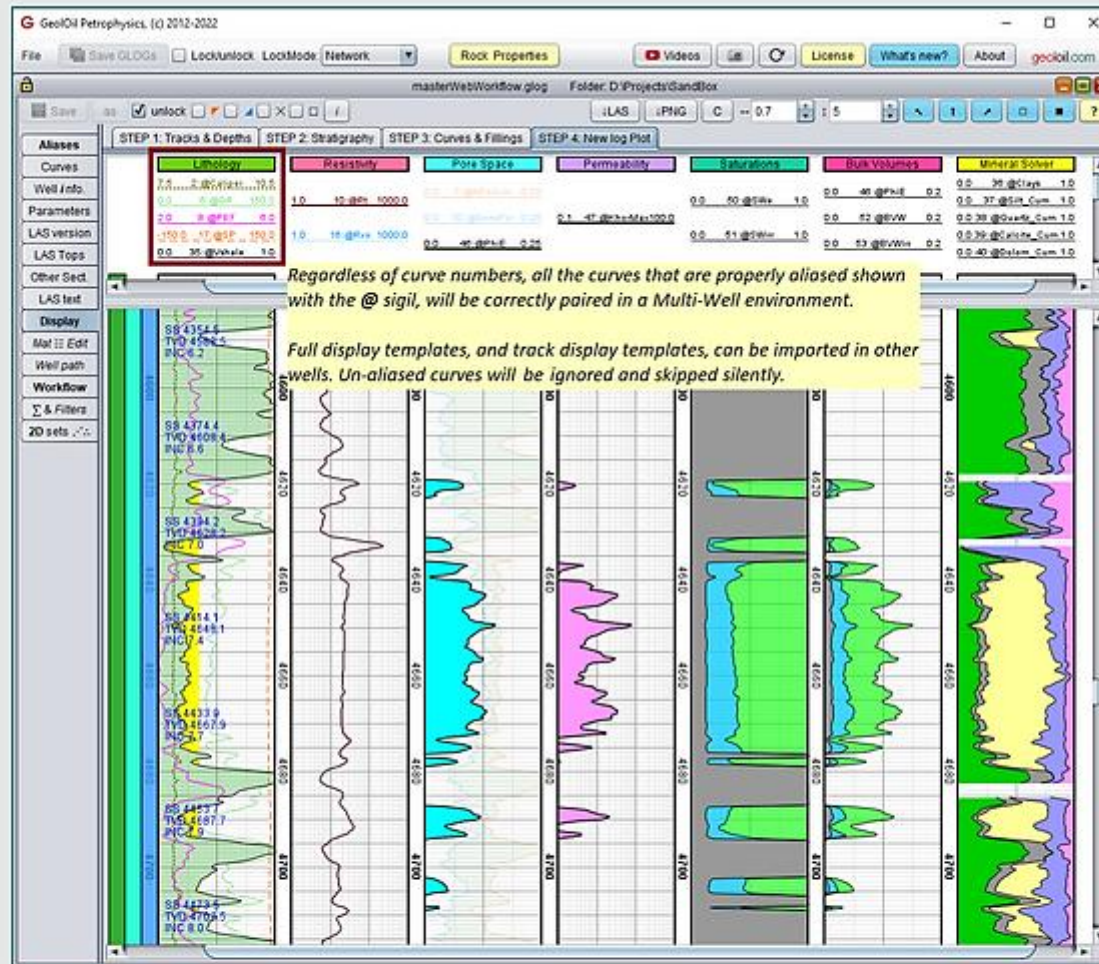
Validate & Mark errors ☐ Check/Uncheck factory aliases ☐ Check/Uncheck user aliases

Item	Write	Alias Title	Act	Color	Alias Description	View/Edit
4		NeutPor_Cor	<input checked="" type="checkbox"/>		Neutron Porosity corrected for variable lithology	Open
5		vShale_GR	<input checked="" type="checkbox"/>		vShale from Gamma Ray	Open
6		vShale_Neut	<input checked="" type="checkbox"/>		vShale from Neutron - Density	Open
7		PhiE_Dens	<input checked="" type="checkbox"/>		Effective Density Porosity	Open
8		PhiE_Sonic	<input checked="" type="checkbox"/>		Effective Sonic Porosity	Open
9		PhiE_Neut	<input checked="" type="checkbox"/>		Effective Neutron Porosity	Open
10		Phi_Rxo	<input checked="" type="checkbox"/>		Porosity from flushed zone resistivity	Open
11		Clays	<input checked="" type="checkbox"/>		Clays proportion in the matrix	Open
12		Silt_Cum	<input checked="" type="checkbox"/>		Silt + Clays proportion in the matrix	Open
13		Quartz_Cum	<input checked="" type="checkbox"/>		Quartz + Silt + Clays proportion in the matrix	Open
14		Calcite_Cum	<input checked="" type="checkbox"/>		Calc + Quartz + Silt + Clays prop. in the matrix	Open
15		Dolom_Cum	<input checked="" type="checkbox"/>		Dolom + Quartz + Silt + Clays prop. in matrix	Open
16		Anhyd_Cum	<input checked="" type="checkbox"/>		Anhydrite + Dolom + Quartz + Silt + Clays prop.	Open
17		BitSize	<input checked="" type="checkbox"/>		Drill bit size	Open
18		Caliper	<input checked="" type="checkbox"/>		Size of caliper	Open
19		BoreHTemp	<input checked="" type="checkbox"/>		Borehole temperature	Open
20		SP	<input checked="" type="checkbox"/>		Spontaneous Potential	Open
21		GR	<input checked="" type="checkbox"/>		Total regular gamma ray	Open
22		Uranium	<input checked="" type="checkbox"/>		Uranium radioactivity	Open
23		Thorium	<input checked="" type="checkbox"/>		Thorium radioactivity	Open
24		Potassium	<input checked="" type="checkbox"/>		Potassium radioactivity	Open

Geoloil allows to choose either the original LAS file' *mnemonics*, or define an *alias* collection that can be paired to mnemonics for processings. Once an alias system is defined, it can be saved and use for several logs. For instance *deep resistivity* mnemonics like *AO90*, *ILD*, *LLD*, and many others, are simply assigned as *Rt*.

Successive equations in workflows and displays can use the defined alias system. Then display templates can be created to apply to tracks, color patterns, curves and filling for other wells.

Multi-Well work-flows and functions

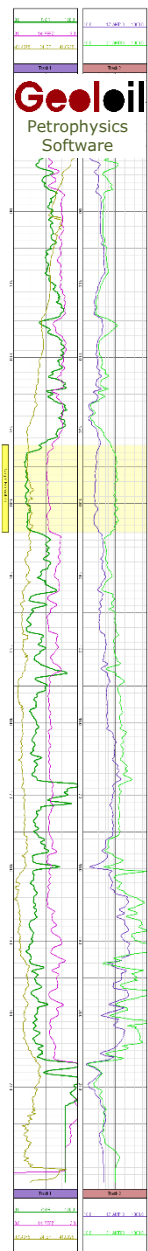


Once a petrophysical functions work-flow is created and exported, it can be imported by similar wells with the same primordial set of raw curves to automatically compute interpreted curves.

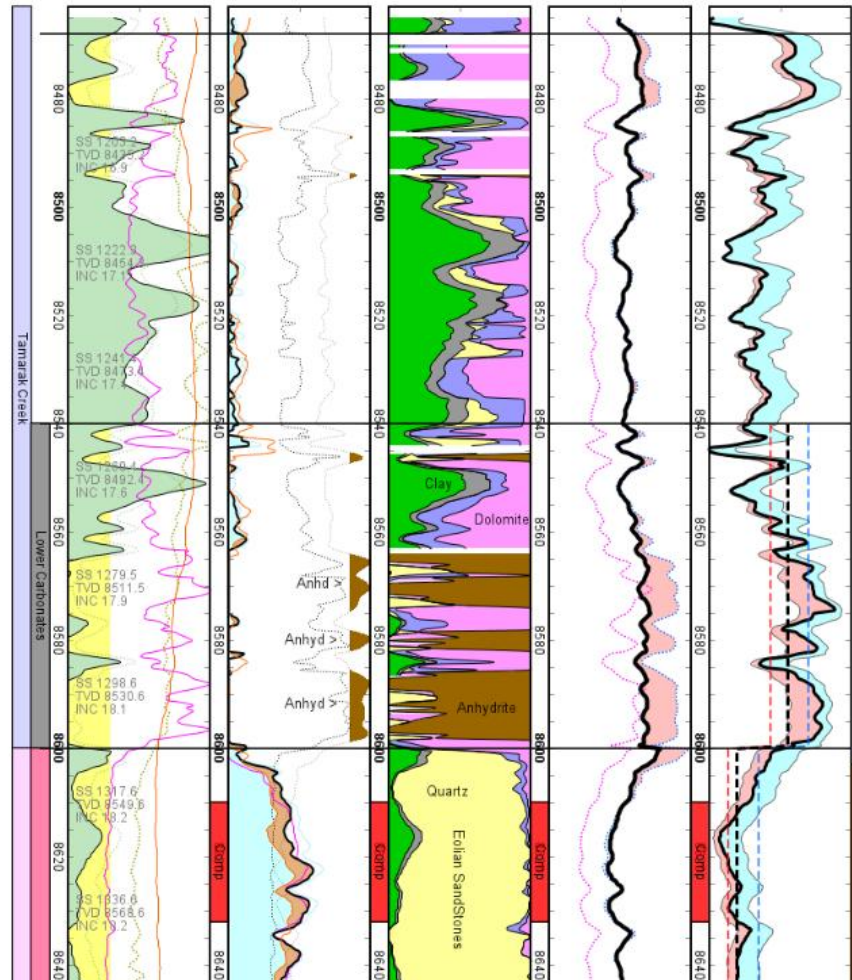
The new curves will be appended and aliased to the well log curves as long as all the wells in the project share the same set of aliases.

Geomechanics

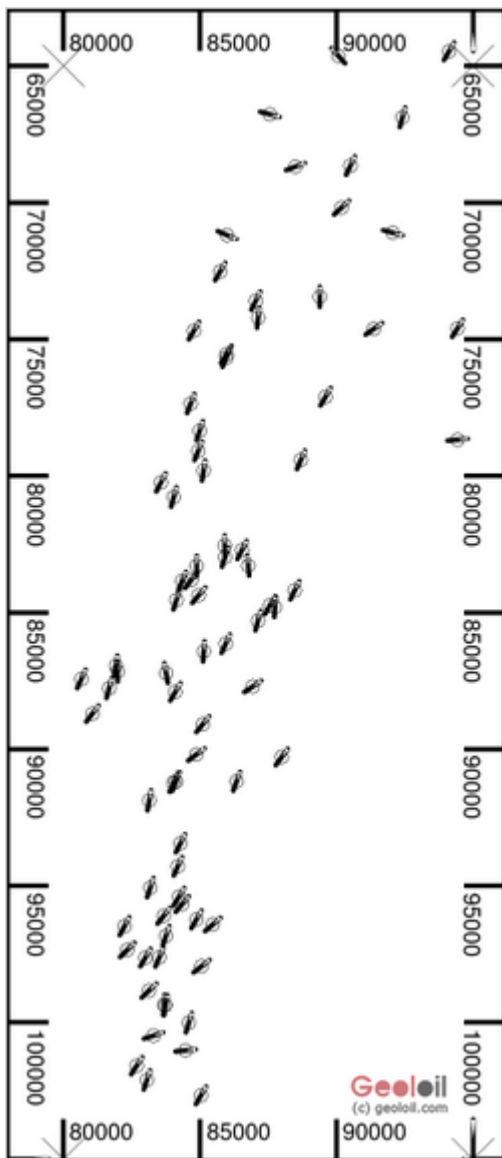
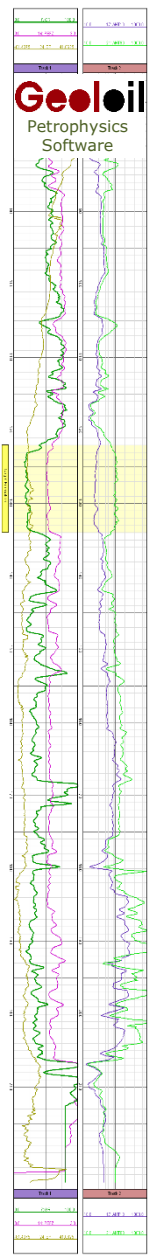
The next log shows a geomechanical study that computes if a reservoir cap rock is strong enough to withstand the stresses of an injection process into a pay zone. The creation of fractures in the cap rock would produce leaks and environmental problems. More details on this study, and the full work-flow of the equations and functions used are shown in the [learn-set](#).



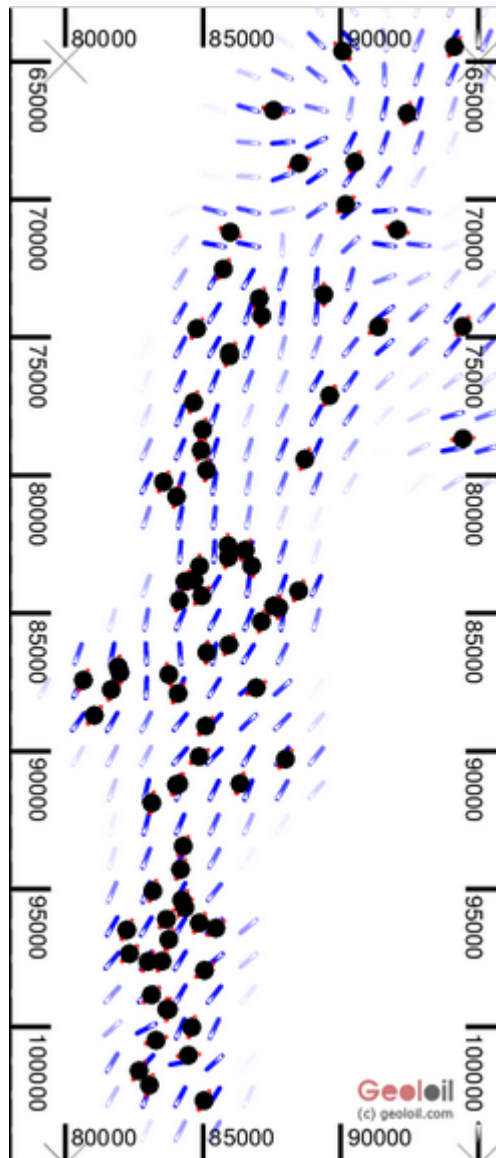
Lithology	Pore Space	Mineral Solver	Brittleness	Fracture Gradient
7.5...9.0 @ RhoB 10.0	2.0...10.0 @ RhoB 3.0	0.0...45.0 @ Clays 1.0	0.0...105.0 UCS_KPa 200.0	0.5...122.0 Low FractGrad 1.4
-120.0...5.0 @ SP -20.0	2.5...44.0 @ RhoM 3.0	0.0...45.0 @ Sil_Cum 1.0	0.0...105.0 UCS_KPa 200.0	0.5...123.0 FractGrad 1.4
0.0...8.0 @ PP 150.0	0.0...55.0 @ Sand 0.3	0.0...47.0 @ Quartz_Cum 1.0	10.0...108.0 Final 25.0	0.5...124.0 High FractGrad 1.4
0.0...7.0 @ PEF 0.0	0.0...60.0 @ PhiE_Sand 0.3	0.0...48.0 @ Calcite_Cum 1.0	0.0...110.0 Tensile 50000.0	0.5...125.0 Base Case 1.4
0.0...42.0 @ Vshale 1.0	0.0...65.0 @ PhiE 0.3	0.0...50.0 @ Dolom_Cum 1.0		0.5...126.0 Base Case 1.4
	0.0...74.0 @ PhiE_Next 0.3	0.0...52.0 @ Anhyd_Cum 1.0		0.5...127.0 QrL 1.4



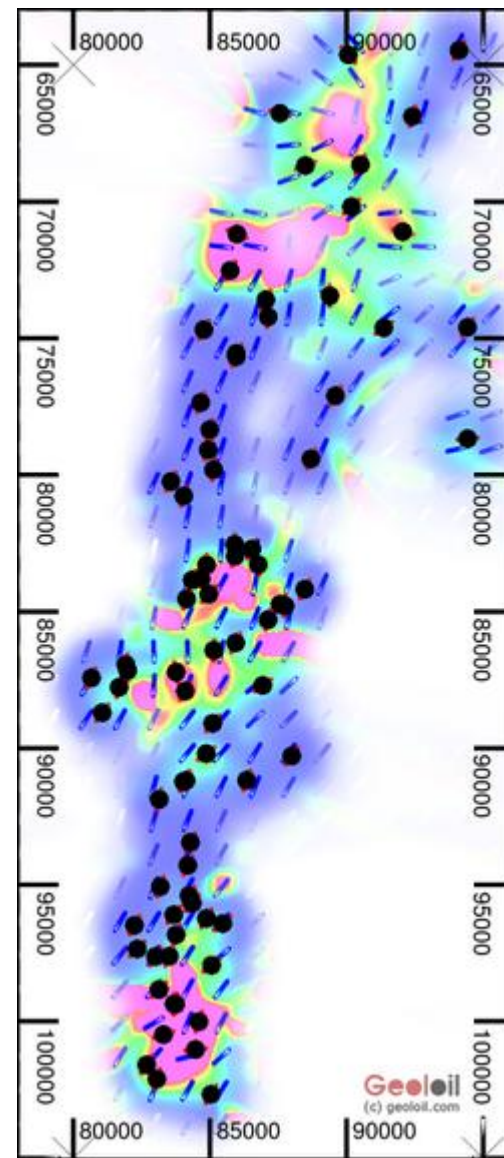
Geomechanics: Stress Tensor Estimation (not for licensing)



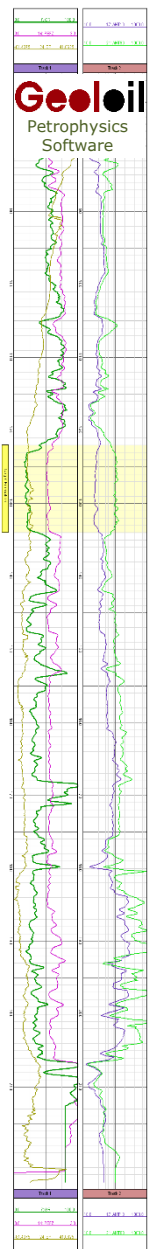
Original borehole oval angles



Directions of min horizontal stress



Stress tensor pseudo-turbulence



Petrophysical summaries and curve filtering

Geoloil LAS logs module

Save GLOG | Geoloil-LOG: webUpscExample.glog | Export LAS | snapshot | Export Plot | Plots Help

Summaries List | ☒ Edit UID=91: Water Saturation | Results

SPECS UID 91 = Water Saturation : Water Saturation for layers

Zone types processed : Layers. Is depth partition contiguous? : Yes

Help | Deselect Rows | Export as plain ASCII

Item	Stratigraphic Zone	Color	UID	Upscaling	% Compl.	topM.Dept	baseMD	topTVD	baseTVD	Ver.Thick
1	Upper Navajo 1/7		17	0.16659...	100.0	6240.0	6266.857	5951.014	5977.786	26.7719
2	Upper Navajo 2/7		17	0.30125...	100.0	6266.857	6293.71...	5977.786	6004.577	26.7911
3	Upper Navajo 3/7		17	0.17057...	100.0	6293.71...	6320.57...	6004.577	6031.38...	26.8078
4	Upper Navajo 4/7		17	0.19851...	100.0	6320.57...	6347.42...	6031.38...	6058.202	26.8172
5	Upper Navajo 5/7		17	0.23597...	100.0	6347.42...	6374.28...	6058.202	6085.022	26.8195
6	Upper Navajo 6/7		17	0.27099...	100.0	6374.28...	6401.143	6085.022	6111.852	26.8303
7	Upper Navajo 7/7		17	0.27565...	100.0	6401.143	6428.0	6111.852	6138.701	26.8490
8	Middle Navajo		69	0.41631...	100.0	6428.0	6484.0	6138.701	6194.693	55.9918
9	Oil to Water Transio...		61	0.42129...	100.0	6484.0	6514.625	6194.693	6225.314	30.6208
10	Oil to Water Transio...		61	0.37922...	100.0	6514.625	6545.25	6225.314	6255.94	30.6258
11	Oil to Water Transio...		61	0.44077...	100.0	6545.25	6575.875	6255.94	6286.56...	30.6255
12	Oil to Water Transio...		61	0.44438...	100.0	6575.875	6606.5	6286.56...	6317.19	30.6245
13	Oil to Water Transio...		61	0.54910...	100.0	6606.5	6637.125	6317.19	6347.81...	30.6246
14	Oil to Water Transio...		61	0.61567...	100.0	6637.125	6667.75	6347.81...	6378.43...	30.625
15	Oil to Water Transio...		61	0.75431...	100.0	6667.75	6698.375	6378.43...	6409.065	30.6253
16	Oil to Water Transio...		61	0.95410...	100.0	6698.375	6729.0	6409.065	6439.69...	30.6256
17	Water Cell		95	0.97229...	100.0	6729.0	6794.0	6439.69...	6504.69...	64.9996

This module allows to produce petrophysical summaries. You can compute and adjust petrophysical cutoffs, upscale porosity, water saturation.

Calculate Net-Pay, Net-Sand, formation water resistivity R_w , cementation exponent "m", Dykstra-Parsons permeability heterogeneity, and more.

Ionic Water Analysis

Water Analysis

Save as unlock webExample_gwat.xml

ID & Summary Ion Analysis

CATIONS					ANIONS						
	Mult.	PPM = mg/L	Val.	gr/Mol	mEq/L		Mult.	PPM = mg/L	Val.	gr/Mol	mEq/L
Sodium Na ⁺	Auto	5990.0	x 1	/ 23.0 =	260.55	Chloride Cl ⁻	Auto	6740.0	x 1	/ 35.5 =	190.11
Calcium Ca ⁺⁺	Auto	576.0	x 2	/ 40.1 =	28.74	Bicarbonate HCO ₃ ⁻	Auto	264.0	x 2	/ 61.0 =	8.65
Magnesium Mg ⁺⁺	Auto	70.0	x 2	/ 24.3 =	5.76	Sulfate SO ₄ ⁻	Auto	5040.0	x 2	/ 96.1 =	104.93
Potassium K ⁺	Auto	109.0	x 1	/ 39.1 =	2.79	Nitrate NO ₃ ⁻	Auto	0.0	x 1	/ 62.0 =	0.0
Iron Fe ⁺⁺	Auto	7.4	x 2	/ 55.8 =	0.27	Carbonate CO ₃ ⁻	Auto	0.0	x 2	/ 60.0 =	0.0
Ammonium NH ₄ ⁺	Auto	0.0	x 1	/ 18.0 =	0.0	Bromide Br ⁻	Auto	75.0	x 1	/ 79.9 =	0.94
Lithium Li ⁺	Auto	8.0	x 1	/ 6.9 =	1.15	Iodine I ⁻	Auto	9.3	x 1	/ 126.9 =	0.07
Strontium Sr ⁺⁺	Auto	20.8	x 2	/ 87.6 =	0.47	Hydroxide OH ⁻	Auto	0.0	x 1	/ 17.0 =	0.0
Barium Ba ⁺⁺	Auto	0.13	x 2	/ 137.3 =	0.0	Fluoride F ⁻	Auto	0.0	x 1	/ 19.0 =	0.0
<input checked="" type="checkbox"/> more: Rubidium	1.0	0.30	1	85.5	0.0	Generic anion 1	1.0	0.0	1	50	0.0
Cesium	1.0	0.02	1	132.9	0.0	Generic anion 2	1.0	0.0	1	50	0.0
Manganese	1.0	0.56	2	54.9	0.02	Generic anion 3	1.0	0.0	1	50	0.0
Total Cations:		6782.21			299.76	Total Anions:		12128.3			304.71

Clear results Calculate

Unbalance: Cation - Anion milli-equivalent (%) -0.82 (Should be ≤ 15%)

Total Dissolved Solids (Parts Per Million) 18910.51

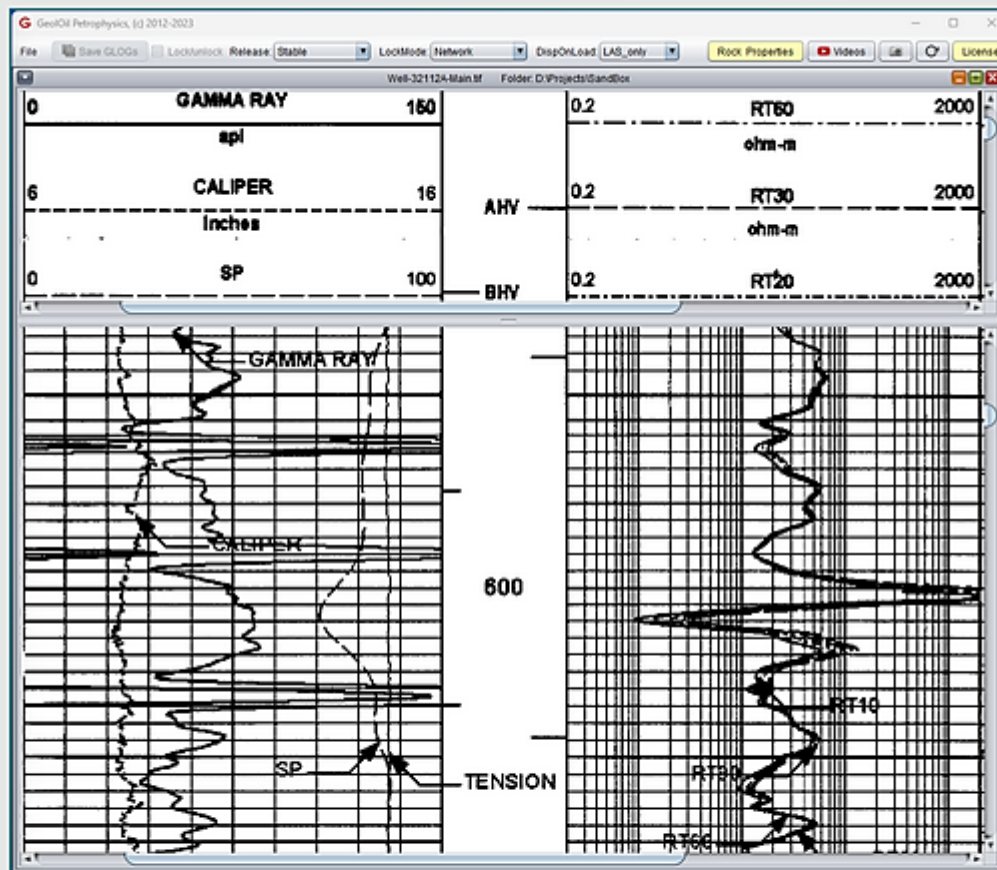
Equivalent NaCl salinity (Parts Per Million) 16706.98

This module processes ionic water analyses. By inputting the *cations* and *anions* concentrations, classical parameters like *TDS* (Total Dissolved Solids), *NaCl equivalent salinity*, ionic *milli-equivalent* concentrations, and electrical charge unbalance are computed.

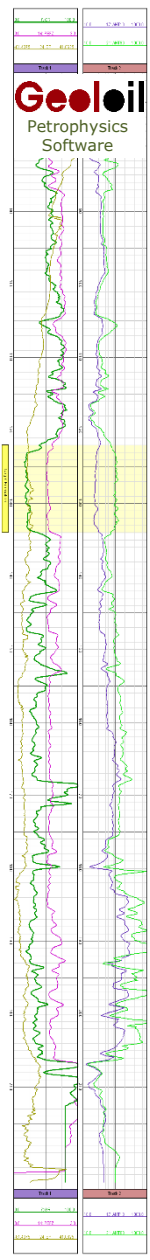
The user can even input custom cations and anions with their valences and molecular weights.

NOTE: As of today January 2026, GeolOil is the **only software** that provides ionic water analyses.

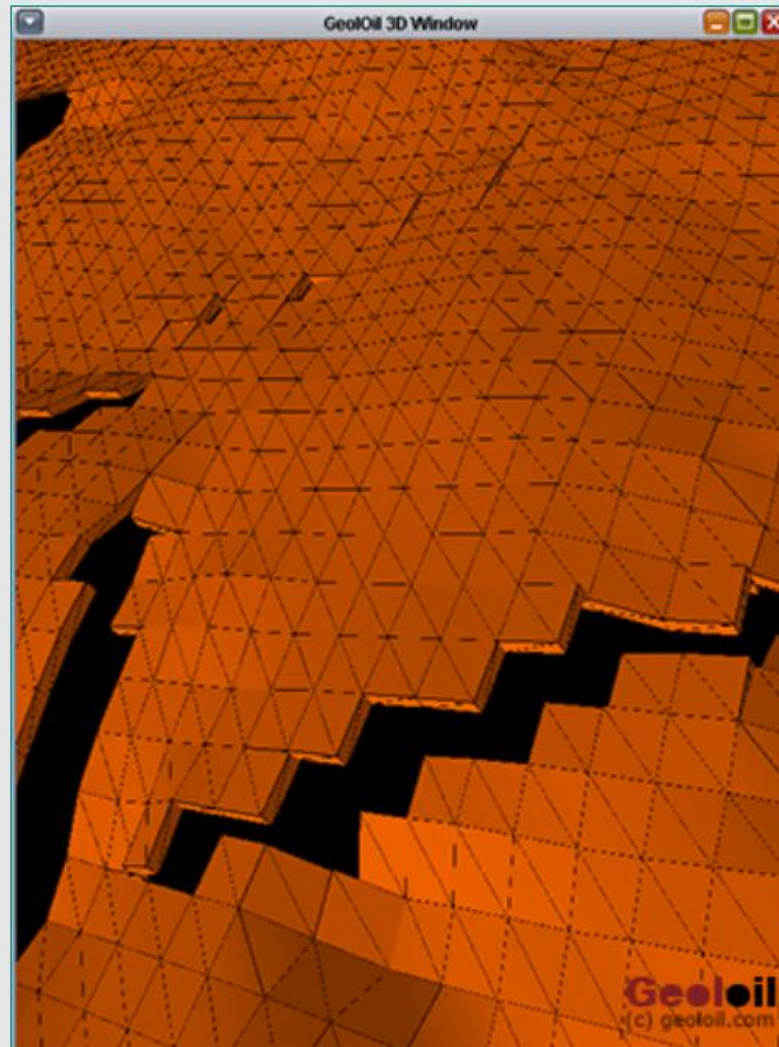
Raster well log viewer of TIFF and other image formats



All Geoloil models come with a double split window viewer of raster well logs, so you can visualize curve legends, strokes, and scales together with curve plots, or compare two zones. No matter how large would be the raster *TIFF* files (or other image formats, like *JPG*, *PNG*, *GIF*, or *BMP*), you will be able to load and view several well raster files in the application besides other windows of workflows.



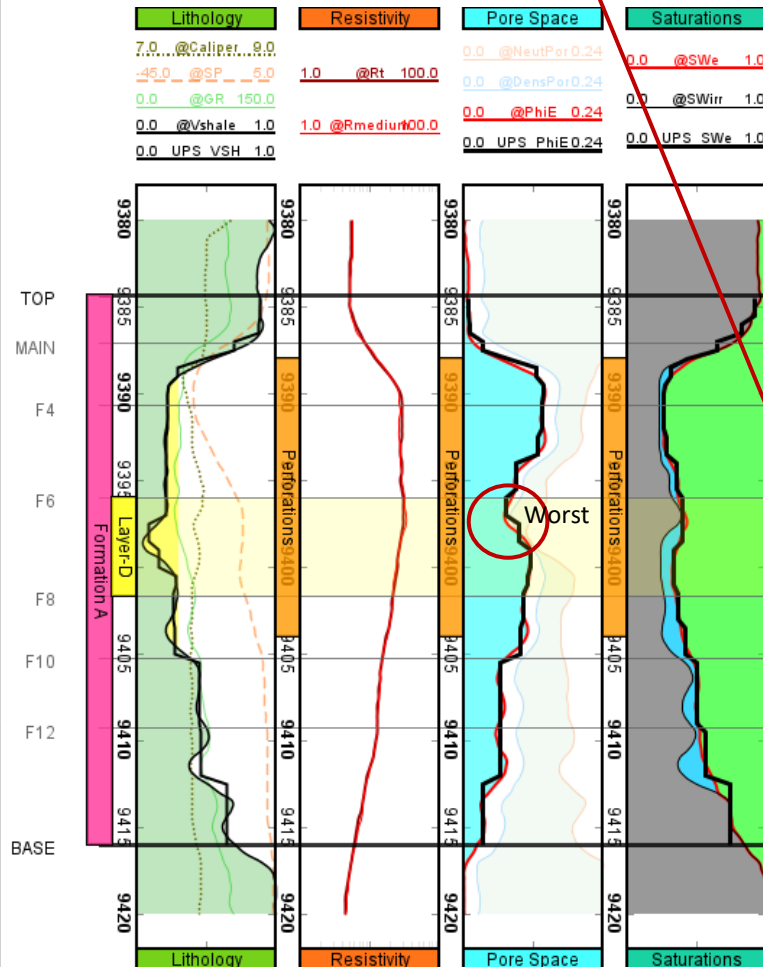
3D Simulation Gridder



The *Corner Point Geometry* simulation builder generates compliant 3D grids for the simulators *Eclipse*, *More-Tempest*, and *CMG-Stars*. The module not only provides the grid builder, but also computes the navigation of well paths through grid cells and its completion history. An option that is usually available in other software as a separate module.

A layering framework for the zone “Layer-D”

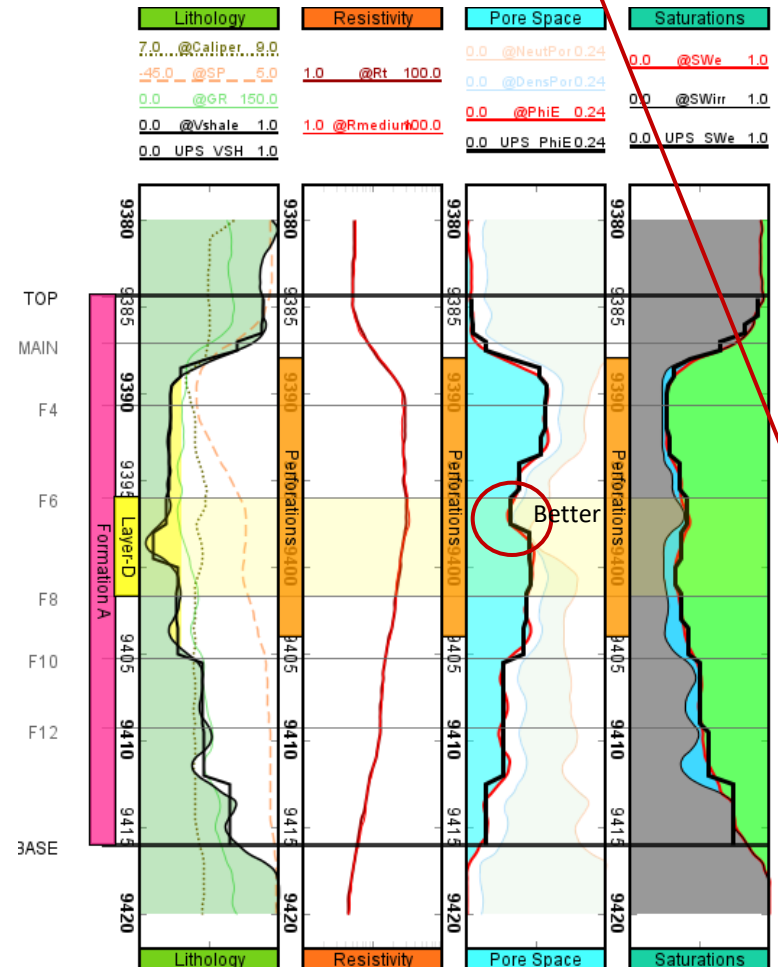
4 layers partition



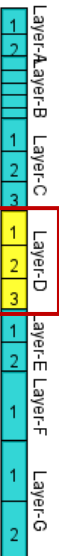
Reservoir Simulation Cells



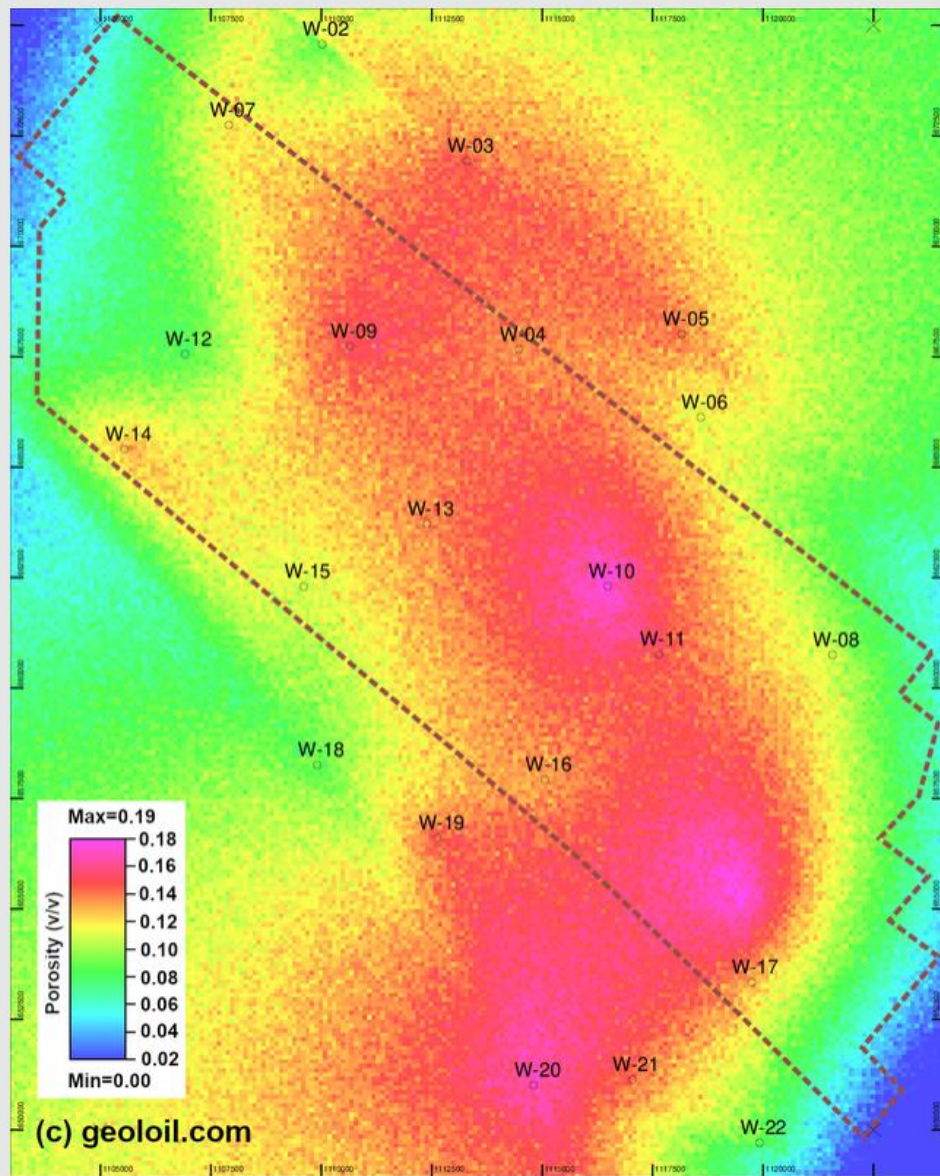
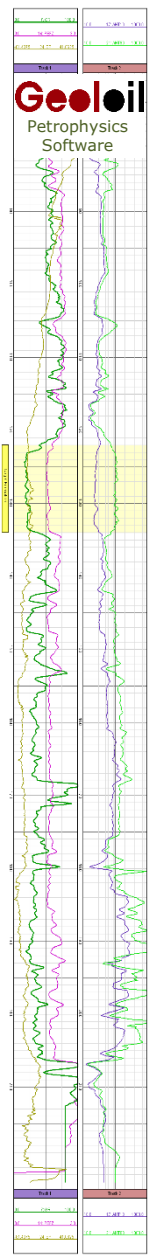
3 layers partition



Reservoir Simulation Cells



Not always a finer vertical resolution yields a better model to capture reservoir heterogeneity and baffles. The split of “Layer-D” to the right into only 3 layers follows better the porosity than the partition into 4 layers to the left. This visual representation of the upscalings, is essential to define to good 3D geo-cellular models for simulation purposes.



GeolOil's engine to build 3D geo-cellular static models uses an exclusive *variogram-free, multi-point* geostatistical realization algorithm that produces believable geological scenarios and shapes.

GeolOil Commercial Licensing

- One-year licenses
- Life-time, perpetual licenses (not always offered)
- All licenses can be migrated to other computers.
- Free maintenance. Like modern browsers. Licenses are always up to date.



One license per physical computer. GeolOil works on Network environments through a file locking system, so there is virtual no risk for file collisions.

GeolOil is the **only** GeoScience software that ships with a **bug-free guarantee** monetary reward. It is so stable that last bug was found around two years ago.

Hardware Requirements

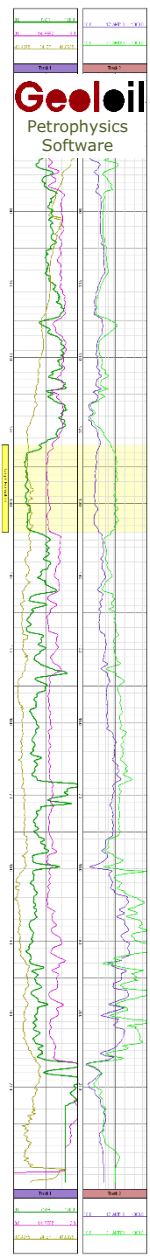


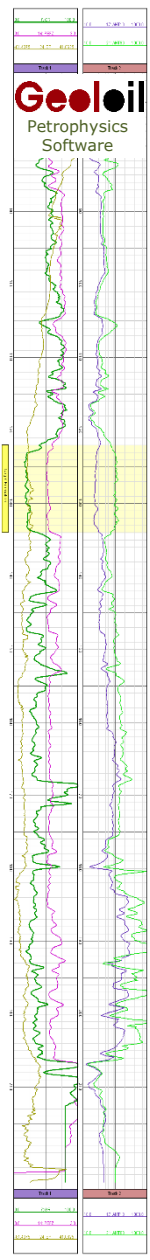
- GeolOil runs seamlessly in Windows 10-11, MacOS, and Linux
- However, we only offer installation and support for **Windows, recommended**
- GeolOil requires a quite powerful machine to run:
 - At least **32 GB** of RAM memory, large projects need 128-512 GB
 - Screen Resolution **1290x1080** pixels or higher
 - Fast modern processors
 - **No Graphics Cards** or accelerators are required

Training



- Remote online training via live video-conference anywhere
- In-site company training





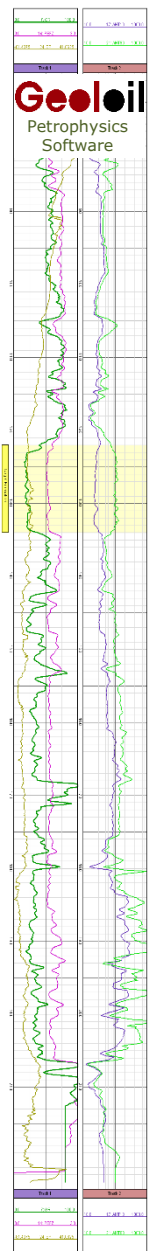
Consulting



- Clastic reservoirs petrophysics interpretation.
- Carbonate reservoir petrophysics interpretation
- Shale Oil, Shale Gas, tight reservoirs and unconventional petrophysics interpretation
- NMR Nuclear Magnetic Resonance interpretation

We have managed large projects with more than +600 wells in Colombia. There is no big or small project for us.

- Geomechanics properties and Stress tensor estimations
- Reservoir 3D Geo-Cellular CPG modelling for Simulation Grids



Thank you!



"A great petrophysics software must excel in four aspects:

- 1.- Designed after decades of petrophysics consulting.
- 2.- Modern programming practices in compiler design and threads.
- 3.- Advanced & innovative applied mathematical algorithms.
- 4.- An outstanding and fast customer service.


Well, we have all these traits." **Oscar Gonzalez**, GeolOil LLC, Director ■

TESTIMONIALS↓

48 testimonials→

26 Google reviews→

2025 November: "I continue to transition from PowerLog to GeolOil, and I am now recommending GeolOil to companies for which I consult. Congratulations on a fine and ingenious product. Cheers."

 **Douglass Sharp**, Independent Senior PetroPhysicist Consultant, Texas, USA. ■


2024 August: "I think GeolOil is amazing. I've been using the software on almost a daily basis and the petrophysical capabilities are making my life so much easier. "

 **Emre Cankut Kondakei**, Senior Geologist, IPT Well Solutions, Houston, Texas, USA. ■

2024 July: "The GeolOil software is working nicely on a Macintosh computer. I have to admit that initially I was too dummy to get GeolOil started on Mac-OS, but a colleague helped me to get on a right track."

 **Heikki Bauert**, Geological Survey of Estonia (EGT), an Estonian Republic Government Agency, Geological Survey of Estonia, Rakvere, Estonia. ■

2024 January: "... In a world where exceptional service is increasingly rare, you have truly set a standard to aspire to, and I wanted to take a moment to acknowledge and appreciate your outstanding contribution. Your dedication makes a real difference, and we are grateful to have such a reliable partner." [Read more](#).

 **Enis Aliko**, Senior Drilling Engineer, Wellynx Engineering, Pescara, Italy. ■

2023 August: "I've been impressed by the programme, and it works for my purposes on my small laptop."

 **Michael McCaughey**, Senior GeoScientist, ELGOL Geoscience, Director, Twyford, England, UK. ■

2023 February: "I was a Geolog user for many years so I know it pretty well. GeolOil is really good, it just takes a while to get used to like any software."

 **Sheldon Murphy**, Senior Petrophysics Consultant, Epoch Geologic, LLC, Pittsburgh, Pennsylvania, USA. ■