1 Clastics

1.1 SHC

Table 1: Logs - SHC - Linear regression

Foramt	Coff.	Logs	R2	MAE
$y = a_0 + a_1 x_1$	$a_0 = 6223.392464731682, a_1 = -2043.9228208593497$	RHOB	0.9914	48.4196
	$a_0 = 687.0931883035205, a_1 = 3142.635359829878$	PHIN	0.9973	28.3153
	$a_0 = 1878.7037608058772, a_1 = 6.931664220320981$	VSH	$-1.3591e-06$	607.6688
	$a_0 = 4026.1832943876216, a_1 = -432.9838950972628$	U	0.8191	235.1824
	$a_0 = -582.7303287824136, a_1 = 7.373067564311985$	DT	0.9976	26.1760
	$a_0 = 3300.1901296690476, a_1 = -194.2194288142194$	AI	0.9212	167.8129
$y = a_0 + a_1 x_1 + a_2 x_2$	$a_0 = 2166.735659515134, a_1 = -547.3420134967087, a_2 = 2308.7675039211244$	RHOB, PHIN	0.9982	23.0030
	$a_0 = 6263.38206640461, a_1 = -2045.1025975250516, a_2 = -164.28898247914628$	RHOB, VSH	0.9920	47.1457
	$a_0 = 6458.799520506402, a_1 = -2311.3179508753906, a_2 = 67.14548716173262$	RHOB, U	0.9941	39.8437
	$a_0 = -278.7991892521561, a_1 = -91.48510732278837, a_2 = 7.045171612364609$	RHOB, DT	0.9976	26.1321
	$a_0 = 6129.4279724276, a_1 = -1975.5747094570847, a_2 = -7.012556246397391$	RHOB, AI	0.9915	48.2693
	$a_0 = 749.6379589557287, a_1 = 3147.8852507916286, a_2 = -282.874154337475$	PHIN, VSH	0.9989	17.8382

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Table 1: Logs - SHC - Linear regression (Continued)

Foramt	Coff.	Logs	R2	MAE
	$a_0 = 870.8736051866742, a_1 = 2992.135670803691, a_2 = -25.552282329949662$	PHIN, U	0.9978	25.1257
	$a_0 = 0.9099338065761913, a_1 = 1450.0952505573573, a_2 = 3.9777938051862214$	PHIN, DT	0.9983	21.9164
	$a_0 = 751.3738790741768, a_1 = 3068.753332145603, a_2 = -4.955560318267423$	PHIN, AI	0.9973	28.0899
	$a_0 = 3975.485322969005, a_1 = 234.69441803319526, a_2 = -433.55850631099685$	VSH, U	0.8202	234.7007
	$a_0 = -537.2372088484015, a_1 = -209.3658933286498, a_2 = 7.379874614273332$	VSH, DT	0.9984	21.1259
	$a_0 = 3357.9918676401758, a_1 = -244.8761539207998, a_2 = -194.4838283629343$	VSH, AI	0.9224	167.1298
	$a_0 = -563.302504895639, a_1 = -2.0192118785648105, a_2 = 7.344867269351149$	U, DT	0.9976	26.1505
	$a_0 = 3586.0252272639823, a_1 = -127.96393385748601, a_2 = -146.56915247216997$	U, AI	0.9371	144.0762
	$a_0 = -632.3808850531775, a_1 = 7.464591573774886, a_2 = 2.609339806326219$	DT, AI	0.9976	26.1428
$y = a_0+a_1x_1+a_2x_2+a_3x_3$	$a_0 = 1952.5262762670754, a_1 = -447.037136930941, a_2 = 2466.3606079999895, a_3 = -257.5574725562212$	RHOB, PHIN, VSH	0.9995	12.3754
	$a_0 = 2106.3926610176595, a_1 = -519.3876418671163, a_2 = 2338.8862863764816, a_3 = -2.117076225877343$	RHOB, PHIN, U	0.9982	23.0035
	$a_0 = 854.4966523065525, a_1 = -244.57418344018797, a_2 = 1552.1221288009103, a_3 = 2.8623171109094483$	RHOB, PHIN, DT	0.9984	21.2822

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Table 1: Logs - SHC - Linear regression (Continued)

Foramt	Coff.	Logs	R2	MAE
	$a_0 = 2169.29162798722, a_1 = -550.7887915319233, a_2 = 2311.2881530901773, a_3 = 0.5212832049313757$	RHOB, PHIN, AI	0.9982	23.0014
	$a_0 = 6537.307825773544, a_1 = -2339.1883918195613, a_2 = -227.64519530795988, a_3 = 73.73352273015304$	RHOB, VSH, U	0.9952	36.5636
	$a_0 = -422.09911730602767, a_1 = -34.705715187469075, a_2 = -208.62505874107185, a_3 = 7.255460188676004$	RHOB, VSH, DT	0.9985	21.1211
	$a_0 = 6158.571052876186, a_1 = -1968.222818528496, a_2 = -168.06890527127837, a_3 = -7.890695329846737$	RHOB, VSH, AI	0.9921	46.9307
	$a_0 = -168.2783823836919, a_1 = -131.75707128065642, a_2 = 2.41858738016591, a_3 = 6.934608996458384$	RHOB, U, DT	0.9976	26.1415
	$a_0 = 6421.300443104925, a_1 = -2283.273295034075, a_2 = 66.60889864749294, a_3 = -2.6581540288747165$	RHOB, U, AI	0.9941	39.8191
	$a_0 = -297.0517340125855, a_1 = -102.91995578404486, a_2 = 7.107860617387397, a_3 = 2.955711019762864$	RHOB, DT, AI	0.9976	26.0911
	$a_0 = 881.4729607568282, a_1 = 3035.878133944837, a_2 = -262.60570891365666, a_3 = -18.953033307821382$	PHIN, VSH, U	0.9992	15.2175
	$a_0 = 183.13724379248583, a_1 = 1767.434497479879, a_2 = -250.83210017860935, a_3 = 3.242926382012091$	PHIN, VSH, DT	0.9996	11.0847
	$a_0 = 810.8829749623694, a_1 = 3077.3918250145916, a_2 = -282.5056070248955, a_3 = -4.727814582934819$	PHIN, VSH, AI	0.9989	17.6032
	$a_0 = 200.11012283686682, a_1 = 1633.6192896052028, a_2 = -13.026537802803288, a_3 = 3.366159485413268$	PHIN, U, DT	0.9985	21.0704
	$a_0 = 894.4857652552176, a_1 = 2963.697852398636, a_2 = -25.00581664283124, a_3 = -2.1233222982050215$	PHIN, U, AI	0.9978	25.0814

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Table 1: Logs - SHC - Linear regression (Continued)

Foramt	Coff.	Logs	R2	MAE
	$a_0 = -27.38483898792515, a_1 = 1444.3782393129884, a_2 = 4.039095650740966, a_3 = 1.366078758799787$	PHIN, DT, AI	0.9984	21.9058
	$a_0 = -566.4567986649961, a_1 = -212.26841692887655, a_2 = 3.1024595841707874, a_3 = 7.423297905833532$	VSH, U, DT	0.9985	21.0743
	$a_0 = 3608.4301712118577, a_1 = -118.26591374455192, a_2 = -125.49669653930533, a_3 = -147.61557928355853$	VSH, U, AI	0.9374	144.0657
	$a_0 = -575.2370393841009, a_1 = -208.83436058447853, a_2 = 7.449691920339503, a_3 = 1.990976689388888$	VSH, DT, AI	0.9985	21.0959
	$a_0 = -612.0648487413489, a_1 = -2.3679381667416353, a_2 = 7.436068646389132, a_3 = 2.738993560772257$	U, DT, AI	0.9976	26.1122
$y = a_0 + a_1x_1 + a_2x_2 + a_3x_3 + a_4x_4$	$a_0 = 2029.1765411128695, a_1 = -482.5422666023215, a_2 = 2428.2781352189263, a_3 = -258.45044656707177, a_4 = 2.715257326097728$	RHOB, PHIN, VSH, U	0.9995	12.3421
	$a_0 = 901.7034252606846, a_1 = -206.39919591840737, a_2 = 1850.4255561429168, a_3 = -248.37333816854343, a_4 = 2.3087652034748753$	RHOB, PHIN, VSH, DT	0.9997	10.1536
	$a_0 = 1950.853965636466, a_1 = -444.8539933753553, a_2 = 2464.8522503875, a_3 = -257.65582222201397, a_4 = -0.3243811755674873$	RHOB, PHIN, VSH, AI	0.9995	12.3817
	$a_0 = 441.9435847980394, a_1 = -81.46636157814622, a_2 = 1628.4560672480443, a_3 = -10.247824248786308, a_4 = 3.125068908929199$	RHOB, PHIN, U, DT	0.9985	21.0388
	$a_0 = 2110.1438371816425, a_1 = -523.2148033646973, a_2 = 2340.519600563534, a_3 = -2.0682751893622235, a_4 = 0.4813568911043146$	RHOB, PHIN, U, AI	0.9982	23.0021
	$a_0 = 837.196092273816, a_1 = -252.24097393104014, a_2 = 1546.4183408081708, a_3 = 2.9228040671451745, a_4 = 2.127149403185555$	RHOB, PHIN, DT, AI	0.9985	21.2521

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Table 1: Logs - SHC - Linear regression (Continued)

Foramt	Coff.	Logs	R2	MAE
	$a_0 = 18.139380126380274, a_1 = -194.99733420461084, a_2 = -214.29632196486662, a_3 = 9.719226877259235, a_4 = 6.816874698612204$	RHOB, VSH, U, DT	0.9985	20.9321
	$a_0 = 6489.2814573713495, a_1 = -2303.124964190723, a_2 = -228.720277442283, a_3 = 73.07210260044792, a_4 = -3.4306720089803617$	RHOB, VSH, U, AI	0.9952	36.4927
	$a_0 = -434.7925863862922, a_1 = -43.18626247311947, a_2 = -207.8729368793429, a_3 = 7.300072569467945, a_4 = 2.139164377638478$	RHOB, VSH, DT, AI	0.9985	21.0877
	$a_0 = -185.63113276539275, a_1 = -143.5392062479539, a_2 = 2.438706887734416, a_3 = 6.996445564685919, a_4 = 2.95888416446659$	RHOB, U, DT, AI	0.9976	26.1004
	$a_0 = 313.6701186631724, a_1 = 1884.426924420487, a_2 = -245.34710757553532, a_3 = -8.796676195518994, a_4 = 2.8459660076841593$	PHIN, VSH, U, DT	0.9996	10.3169
	$a_0 = 911.2563095520295, a_1 = 3000.124655074314, a_2 = -263.1482489621351, a_3 = -18.250618158724286, a_4 = -2.6762969433279435$	PHIN, VSH, U, AI	0.9992	15.1721
	$a_0 = 175.85380437795902, a_1 = 1765.8167969423776, a_2 = -250.70149064074482, a_3 = 3.2588833407114337, a_4 = 0.3470651371208976$	PHIN, VSH, DT, AI	0.9996	11.0857
	$a_0 = 163.32125830870245, a_1 = 1628.5137262390126, a_2 = -13.238171006954678, a_3 = 3.442938860068473, a_4 = 1.9324235072762086$	PHIN, U, DT, AI	0.9985	21.0468
	$a_0 = -598.9679362555405, a_1 = -211.5468434635092, a_2 = 2.852467584597547, a_3 = 7.483857705291253, a_4 = 1.8267613578865312$	VSH, U, DT, AI	0.9985	21.0501
$y = a_0 + a_1x_1 + a_2x_2 + a_3x_3 + a_4x_4 + a_5x_5$	$a_0 = 749.5463133794501, a_1 = -146.6172847940307, a_2 = 1876.5519218514455, a_3 = -246.73364124004843, a_4 = -3.771843575632941, a_5 = 2.409128791007197$	RHOB, PHIN, VSH, U, DT	0.9997	10.0905

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Table 1: Logs - SHC - Linear regression (Continued)

Foramt	Coff.	Logs	R2	MAE
	$a_0 = 2027.0085755698562, a_1 = -480.34251567288453, a_2 = 2427.369754776301, a_3 = -258.52520419708094, a_4 = 2.688741450835371, a_5 = -0.27533072192794605$	RHOB, PHIN, VSH, U, AI	0.9995	12.3477
	$a_0 = 893.5564315609664, a_1 = -210.03850448213146, a_2 = 1847.2652857776675, a_3 = -247.95668517955707, a_4 = 2.3379007990982434, a_5 = 0.9919576265529984$	RHOB, PHIN, VSH, DT, AI	0.9997	10.1292
	$a_0 = 427.53229112950385, a_1 = -89.90726455973405, a_2 = 1622.4436966597823, a_3 = -10.186962137014156, a_4 = 3.1824601668347756, a_5 = 2.073160621730259$	RHOB, PHIN, U, DT, AI	0.9985	21.0116
	$a_0 = 4.993434795228723, a_1 = -203.25413118930305, a_2 = -213.54102181530664, a_3 = 9.707975499308882, a_4 = 6.861793902901961, a_5 = 2.1295311639185135$	RHOB, VSH, U, DT, AI	0.9985	20.8939
	$a_0 = 299.23014276779736, a_1 = 1882.099882377756, a_2 = -245.0098913650373, a_3 = -8.884660051657564, a_4 = 2.876491865607565, a_5 = 0.7502958479340415$	PHIN, VSH, U, DT, AI	0.9996	10.3082
$y = y = a_0 + a_1x_1 + a_2x_2 + a_3x_3 + a_4x_4 + a_5x_5 + a_6x_6$	$a_0 = 742.2342996704704, a_1 = -150.49882320205992, a_2 = 1873.3054878281384, a_3 = -246.33011275474072, a_4 = -3.7536792740918714, a_5 = 2.437415469397042, a_6 = 0.9795106575786899$	RHOB, PHIN, VSH, U, DT, AI	0.9997	10.0684

1.2 TC

Table 2: Logs - TC - Linear regression

Foramt	Coff.	Logs	R2	MAE
$y = a_0 + a_1x_1$	$a_0 = -4.130518863077831, a_1 = 3.1246951099705305$	RHOB	0.9229	0.2334

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Table 2: Logs - TC - Linear regression (Continued)

Foramt	Coff.	Logs	R2	MAE
	$a_0 = 4.333305062013886, a_1 = -4.804578260095245$	PHIN	0.9283	0.2266
	$a_0 = 2.759439469581898, a_1 = -1.0972156912319542$	VSH	0.0095	0.9373
	$a_0 = -0.7433847690201865, a_1 = 0.6562647304518168$	U	0.7497	0.4026
	$a_0 = 6.266760961531528, a_1 = -0.01124857908684328$	DT	0.9247	0.2314
	$a_0 = 0.21876536019006965, a_1 = 0.3132809395369993$	AI	0.9540	0.1604
$y = a_0 + a_1x_1 + a_2x_2$	$a_0 = 2.09948390208225, a_1 = 0.8263240581809883, a_2 = -3.5456851846683475$	RHOB, PHIN	0.9291	0.2256
	$a_0 = -3.9270007889844543, a_1 = 3.1186909022560387, a_2 = -0.8361117868185738$	RHOB, VSH	0.9285	0.2266
	$a_0 = -4.634134526393798, a_1 = 3.696744130877356, a_2 = -0.1436470072842263$	RHOB, U	0.9278	0.2273
	$a_0 = 2.627939856570256, a_1 = 1.0953071140728405, a_2 = -0.0073228388286324594$	RHOB, DT	0.9255	0.2303
	$a_0 = -1.1173938100922474, a_1 = 0.9330011866535888, a_2 = 0.22486907972761055$	RHOB, AI	0.9603	0.1424
	$a_0 = 4.478351772833925, a_1 = -4.792403310723373, a_2 = -0.6560095310094899$	PHIN, VSH	0.9318	0.2210
	$a_0 = 4.25929495067644, a_1 = -4.743970612501538, a_2 = 0.010290145665344742$	PHIN, U	0.9284	0.2265
	$a_0 = 4.2903883337837545, a_1 = -4.910436692827619, a_2 = 0.0002487876155150872$	PHIN, DT	0.9283	0.2265
	$a_0 = 1.6002929910093302, a_1 = -1.6633476499290092, a_2 = 0.21069478261734137$	PHIN, AI	0.9629	0.1392

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Table 2: Logs - TC - Linear regression (Continued)

Foramt	Coff.	Logs	R2	MAE
	$a_0 = -0.4314929132446448, a_1 = -1.4438305031217904, a_2 = 0.6597997152409307$	VSH, U	0.7663	0.3963
	$a_0 = 6.433696616543887, a_1 = -0.7682619391837595, a_2 = -0.011223600818797069$	VSH, DT	0.9294	0.2240
	$a_0 = 0.3822413768141346, a_1 = -0.6925635735926851, a_2 = 0.31253315951273825$	VSH, AI	0.9579	0.1548
	$a_0 = 6.466755878596499, a_1 = -0.02078627614409687, a_2 = -0.011538880032784601$	U, DT	0.9248	0.2312
	$a_0 = 0.17602326505106625, a_1 = 0.019134972161646734, a_2 = 0.3061555981707692$	U, AI	0.9542	0.1590
	$a_0 = 2.0428334957071512, a_1 = -0.0034623465370106775, a_2 = 0.22198466449206866$	DT, AI	0.9605	0.1420
$y = a_0+a_1x_1+a_2x_2+a_3x_3$	$a_0 = 1.5017808282809904, a_1 = 1.1062022415339043, a_2 = -3.105957095779071, a_3 = -0.71865616105653$	RHOB, PHIN, VSH	0.9332	0.2191
	$a_0 = 0.19599172066940573, a_1 = 1.7081318761246815, a_2 = -2.5956020210045927, a_3 = -0.06678219750018433$	RHOB, PHIN, U	0.9298	0.2247
	$a_0 = -1.4592529574528759, a_1 = 1.6474176476753752, a_2 = -5.597675539509388, a_3 = 0.00776248332073451$	RHOB, PHIN, DT	0.9300	0.2242
	$a_0 = 3.162147921511078, a_1 = -0.6067010518619349, a_2 = -2.4977054436006934, a_3 = 0.2167275973323357$	RHOB, PHIN, AI	0.9633	0.1382
	$a_0 = -4.382083272263384, a_1 = 3.6072659595012038, a_2 = -0.7308558856148742, a_3 = -0.12249609055477209$	RHOB, VSH, U	0.9320	0.2212
	$a_0 = 2.0810006411906166, a_1 = 1.3120195479587229, a_2 = -0.7962685500686121, a_3 = -0.00652022105699046$	RHOB, VSH, DT	0.9305	0.2227

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Table 2: Logs - TC - Linear regression (Continued)

Foramt	Coff.	Logs	R2	MAE
	$a_0 = -0.9907740964665948, a_1 = 0.9649433941915629, a_2 = -0.7302191919062628, a_3 = 0.2210537754578387$	RHOB, VSH, AI	0.9646	0.1376
	$a_0 = -3.3736278475459107, a_1 = 3.2821796597872224, a_2 = -0.13133559482290583, a_3 = -0.0013190007848590964$	RHOB, U, DT	0.9278	0.2272
	$a_0 = -1.5536880628619194, a_1 = 1.392952494021036, a_2 = -0.09956773105658778, a_3 = 0.2183600703052994$	RHOB, U, AI	0.9626	0.1399
	$a_0 = 1.2620873979912801, a_1 = 0.23962829836328517, a_2 = -0.002631770664707892, a_3 = 0.22117820918565853$	RHOB, DT, AI	0.9606	0.1420
	$a_0 = 4.286960612764461, a_1 = -4.629797236945745, a_2 = -0.6854341999477254, a_3 = 0.027515022430021043$	PHIN, VSH, U	0.9321	0.2206
	$a_0 = 4.779341547367732, a_1 = -4.058950466141402, a_2 = -0.6730339237396843, a_3 = -0.0017230122653422281$	PHIN, VSH, DT	0.9319	0.2208
	$a_0 = 1.741948386824634, a_1 = -1.6427845896381428, a_2 = -0.672476080939646, a_3 = 0.21123690835126938$	PHIN, VSH, AI	0.9666	0.1330
	$a_0 = 4.082566394707088, a_1 = -5.101903989358677, a_2 = 0.013590350284368674, a_3 = 0.0008868945920186301$	PHIN, U, DT	0.9284	0.2265
	$a_0 = 1.859289023405494, a_1 = -1.8534712878881905, a_2 = -0.045254153726453354, a_3 = 0.21582041144924669$	PHIN, U, AI	0.9636	0.1381
	$a_0 = -0.4119314283432667, a_1 = -5.8605491093485425, a_2 = 0.01043656618155987, a_3 = 0.22702918276744516$	PHIN, DT, AI	0.9657	0.1343
	$a_0 = 6.455371554699749, a_1 = -0.7661088624319731, a_2 = -0.0023013882138693915, a_3 = -0.011255811988255583$	VSH, U, DT	0.9294	0.2240
	$a_0 = 0.3137829218009536, a_1 = -0.7271730614693334, a_2 = 0.034305095633579565, a_3 = 0.2997215093961733$	VSH, U, AI	0.9583	0.1523

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Table 2: Logs - TC - Linear regression (Continued)

Foramt	Coff.	Logs	R2	MAE
	$a_0 = 2.2369919359844213, a_1 = -0.7095594154122781, a_2 = -0.0035129712969972434, a_3 = 0.21988364351765569$	VSH, DT, AI	0.9646	0.1367
	$a_0 = 2.46661154720354, a_1 = -0.04939350407539562, a_2 = -0.004057314492619933, a_3 = 0.22468914949027835$	U, DT, AI	0.9613	0.1412
$y = a_0 + a_1x_1 + a_2x_2 + a_3x_3 + a_4x_4$	$a_0 = -0.013444153118400859, a_1 = 1.8080688241756422, a_2 = -2.3531415089390606, a_3 = -0.7010038211500373, a_4 = -0.05367529700919424$	RHOB, PHIN, VSH, U	0.9336	0.2185
	$a_0 = -1.3273620805318687, a_1 = 1.7540746433897536, a_2 = -4.764246390289928, a_3 = -0.6939296063840538, a_4 = 0.00621591612446612$	RHOB, PHIN, VSH, DT	0.9338	0.2186
	$a_0 = 2.608036217900514, a_1 = -0.3379758199286405, a_2 = -2.108158775452388, a_3 = -0.6535965687426496, a_4 = 0.21458239707008608$	RHOB, PHIN, VSH, AI	0.9667	0.1326
	$a_0 = -5.211081284542349, a_1 = 3.130748144106836, a_2 = -4.903481616011925, a_3 = -0.09319547068166494, a_4 = 0.010151993220049938$	RHOB, PHIN, U, DT	0.9311	0.2227
	$a_0 = 1.8781785109665354, a_1 = -0.00812996659848682, a_2 = -1.863154535265143, a_3 = -0.04489773902895519, a_4 = 0.21586088422385913$	RHOB, PHIN, U, AI	0.9636	0.1381
	$a_0 = -3.2851589341562217, a_1 = 0.8382624207707672, a_2 = -6.199654930111935, a_3 = 0.014146293711421388, a_4 = 0.22449994689113714$	RHOB, PHIN, DT, AI	0.9661	0.1337
	$a_0 = -2.7349175504734955, a_1 = 3.065503917222642, a_2 = -0.7342286787523078, a_3 = -0.1063219182331762, a_4 = -0.0017223856734041069$	RHOB, VSH, U, DT	0.9320	0.2209

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Table 2: Logs - TC - Linear regression (Continued)

Foramt	Coff.	Logs	R2	MAE
	$a_0 = -1.3565904761463354, a_1 = 1.3353964818715691, a_2 = -0.6631294811241707, a_3 = -0.08082894177366894, a_4 = 0.21612030628859374$	RHOB, VSH, U, AI	0.9661	0.1347
	$a_0 = 0.7853340910308249, a_1 = 0.4463805823238483, a_2 = -0.7194968549774271, a_3 = -0.001966480141144686, a_4 = 0.21835195027110263$	RHOB, VSH, DT, AI	0.9647	0.1368
	$a_0 = -4.6697646975118445, a_1 = 2.402131312034162, a_2 = -0.12983279932426658, a_3 = 0.0032997860352210156, a_4 = 0.22100927610820828$	RHOB, U, DT, AI	0.9629	0.1399
	$a_0 = 4.401433125016995, a_1 = -4.397657657995399, a_2 = -0.6889136391239278, a_3 = 0.025467438959511965, a_4 = -0.0005737640859344967$	PHIN, VSH, U, DT	0.9321	0.2206
	$a_0 = 1.9002011683765705, a_1 = -1.7646072292434123, a_2 = -0.6419564636583724, a_3 = -0.02877468503429561, a_4 = 0.21447141654208987$	PHIN, VSH, U, AI	0.9668	0.1324
	$a_0 = 0.06515137487023503, a_1 = -5.106003587911186, a_2 = -0.5884971870697533, a_3 = 0.008605094224229122, a_4 = 0.22463714812731891$	PHIN, VSH, DT, AI	0.9684	0.1302
	$a_0 = -0.24876776115289534, a_1 = -5.703007102393204, a_2 = -0.011326268845132359, a_3 = 0.009926508403830494, a_4 = 0.22751373406058673$	PHIN, U, DT, AI	0.9657	0.1343
	$a_0 = 2.5086183796163635, a_1 = -0.6785120394182408, a_2 = -0.03264965625932247, a_3 = -0.0039040366120014296, a_4 = 0.2217632701802055$	VSH, U, DT, AI	0.9649	0.1360
$y = a_0 + a_1x_1 + a_2x_2 + a_3x_3 + a_4x_4 + a_5x_5$	$a_0 = -4.387066227598668, a_1 = 2.9562199728150276, a_2 = -4.238875288554412, a_3 = -0.6609571910298361, a_4 = -0.07584742696383795, a_5 = 0.008234112192926885$	RHOB, PHIN, VSH, U, DT	0.9345	0.2178

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Table 2: Logs - TC - Linear regression (Continued)

Foramt	Coff.	Logs	R2	MAE
	$a_0 = 1.6714365020979796, a_1 = 0.09848547804386501, a_2 = -1.6471742760540464, a_3 = -0.6429043347271016, a_4 = -0.033067919078322384, a_5 = 0.2139791421787658$	RHOB, PHIN, VSH, U, AI	0.9668	0.1324
	$a_0 = -3.148600351362637, a_1 = 0.9405171177988627, a_2 = -5.470716230277913, a_3 = -0.6007879645518458, a_4 = 0.012729099238056181, a_5 = 0.22174942795931443$	RHOB, PHIN, VSH, DT, AI	0.9689	0.1299
	$a_0 = -6.768471000637568, a_1 = 2.2185624791855307, a_2 = -5.5532223220637045, a_3 = -0.08661826608433978, a_4 = 0.01635411198254133, a_5 = 0.2240408880888396$	RHOB, PHIN, U, DT, AI	0.9671	0.1329
	$a_0 = -4.0834983295402, a_1 = 2.218477900477268, a_2 = -0.6567459843958092, a_3 = -0.1074761442443099, a_4 = 0.002885664488845264, a_5 = 0.21845859873424722$	RHOB, VSH, U, DT, AI	0.9663	0.1349
	$a_0 = 0.07736367651106235, a_1 = -5.094493405865077, a_2 = -0.5879338089692115, a_3 = -0.0008794404984214132, a_4 = 0.00856724353016748, a_5 = 0.22467706157535725$	PHIN, VSH, U, DT, AI	0.9684	0.1302
$y = y = a_0 + a_1x_1 + a_2x_2 + a_3x_3 + a_4x_4 + a_5x_5 + a_6x_6$	$a_0 = -6.040642359274438, a_1 = 2.078429049439244, a_2 = -4.973040462144581, a_3 = -0.5697011980444943, a_4 = -0.07173965902578454, a_5 = 0.014631006139005028, a_6 = 0.2215115436743497$	RHOB, PHIN, VSH, U, DT, AI	0.9696	0.1292

1.3 TD

Table 3: Logs - TD - Linear regression

Foramt	Coff.	Logs	R2	MAE
$y = a_0 + a_1x_1$	$a_0 = -2.5992902723478934, a_1 = 1.6787074911657736$	RHOB	0.8843	0.1635

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Table 3: Logs - TD - Linear regression (Continued)

Foramt	Coff.	Logs	R2	MAE
	$a_0 = 1.9501974760364402, a_1 = -2.5875086986197764$	PHIN	0.8940	0.1591
	$a_0 = 1.0640520326873084, a_1 = -0.4219869110192764$	VSH	0.0046	0.5072
	$a_0 = -0.7774666921943306, a_1 = 0.3521423836096507$	U	0.7167	0.2343
	$a_0 = 2.9898632733248864, a_1 = -0.006053145491792709$	DT	0.8890	0.1612
	$a_0 = -0.2994572864014212, a_1 = 0.17333638458222916$	AI	0.9695	0.0657
$y = a_0 + a_1x_1 + a_2x_2$	$a_0 = 1.6371090853451933, a_1 = 0.11581610659165893, a_2 = -2.4110644898766616$	RHOB, PHIN	0.8941	0.1590
	$a_0 = -2.5307433021397028, a_1 = 1.6766852125590082, a_2 = -0.2816110067721734$	RHOB, VSH	0.8864	0.1628
	$a_0 = -2.8807152238071083, a_1 = 1.998373616879561, a_2 = -0.08027123657363636$	RHOB, U	0.8894	0.1612
	$a_0 = 2.401007710076156, a_1 = 0.17724907847442736, a_2 = -0.005417858973374627$	RHOB, DT	0.8891	0.1611
	$a_0 = -0.0985179330808642, a_1 = -0.14031012117653976, a_2 = 0.18663227202669028$	RHOB, AI	0.9700	0.0623
	$a_0 = 1.9908997198016367, a_1 = -2.5840922284746672, a_2 = -0.18408593819524138$	PHIN, VSH	0.8949	0.1587
	$a_0 = 1.9571790373702966, a_1 = -2.5932259715886956, a_2 = -0.0009706955144191382$	PHIN, U	0.8940	0.15901
	$a_0 = 1.7061204028088128, a_1 = -3.189549383064149, a_2 = 0.0014149110511078$	PHIN, DT	0.8942	0.1590
	$a_0 = -0.26591179487336236, a_1 = -0.04038848970817575, a_2 = 0.17084544413263128$	PHIN, AI	0.9695	0.0662
	$a_0 = -0.646180069762004, a_1 = -0.607760756202837, a_2 = 0.3536303872388557$	VSH, U	0.7263	0.2329
	$a_0 = 3.0430575845324865, a_1 = -0.2448078852828903, a_2 = -0.006045186127067568$	VSH, DT	0.8906	0.1605
	$a_0 = -0.25275905962622536, a_1 = -0.19783630335361294, a_2 = 0.17312277525976216$	VSH, AI	0.9706	0.0650
	$a_0 = 3.1513283468734747, a_1 = -0.01678171453386494, a_2 = -0.006287518766251506$	U, DT	0.8893	0.1611

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Table 3: Logs - TD - Linear regression (Continued)

Foramt	Coff.	Logs	R2	MAE
	$a_0 = -0.21428484755567434, a_1 = -0.03813037804889208, a_2 = 0.1875350966433939$	U, AI	0.9714	0.0613
	$a_0 = -0.4868733373930706, a_1 = 0.0003557429146949972, a_2 = 0.18271672899262023$	DT, AI	0.9698	0.0634
$y = a_0 + a_1x_1 + a_2x_2 + a_3x_3$	$a_0 = 1.4749747162506472, a_1 = 0.19173653375737426, a_2 = -2.291782794014212, a_3 = -0.19494439358957008$	RHOB, PHIN, VSH	0.8950	0.1587
	$a_0 = 1.2001711739714507, a_1 = 0.3182310521152987, a_2 = -2.192977251475467, a_3 = -0.01532954754299058 5$	RHOB, PHIN, U	0.8942	0.1590
	$a_0 = -0.08411071340020337, a_1 = 0.5129464926368933, a_2 = -3.403530796039142, a_3 = 0.0037544051461071127$	RHOB, PHIN, DT	0.8948	0.1587
	$a_0 = 2.527711537556809, a_1 = -1.085180307845172, a_2 = -1.5327687066387856, a_3 = 0.18163608263490155$	RHOB, PHIN, AI	0.9738	0.0601
	$a_0 = -2.805512691202272, a_1 = 1.9716767249178389, a_2 = -0.2180596710657528, a_3 = -0.07396060538690957$	RHOB, VSH, U	0.8906	0.1608
	$a_0 = 2.2292579419470737, a_1 = 0.2453010835674573, a_2 = -0.2500441273860052, a_3 = -0.0051658210644086305$	RHOB, VSH, DT	0.8907	0.1605
	$a_0 = -0.06510559668447746, a_1 = -0.1318812300273063, a_2 = -0.19268981570419083, a_3 = 0.18562549175476023$	RHOB, VSH, AI	0.9710	0.0624
	$a_0 = 0.03362158517404079, a_1 = 1.0398856389355946, a_2 = -0.051806807857265144, a_3 = -0.003049577287367772$	RHOB, U, DT	0.8903	0.1607
	$a_0 = -0.2876678224288566, a_1 = 0.059095986838252124, a_2 = -0.043166338296760316, a_3 = 0.18381037280574375$	RHOB, U, AI	0.9715	0.0620
	$a_0 = 1.2615158406480163, a_1 = -0.5366194270282528, a_2 = -0.0015042341904412024, a_3 = 0.18452269092369236$	RHOB, DT, AI	0.9704	0.0622
	$a_0 = 1.9647712943836786, a_1 = -2.5618934985559827, a_2 = -0.1881029485290607, a_3 = 0.003756308343474874$	PHIN, VSH, U	0.8949	0.1587

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Table 3: Logs - TD - Linear regression (Continued)

Foramt	Coff.	Logs	R2	MAE
	$a_0 = 1.8333847126821046, a_1 = -2.967925301259788, a_2 = -0.17517667426341366, a_3 = 0.000901692722494749$	PHIN, VSH, DT	0.8950	0.1587
	$a_0 = -0.2243265562978528, a_1 = -0.03435186990197006, a_2 = -0.19741625866936682, a_3 = 0.17100459393312664$	PHIN, VSH, AI	0.9706	0.0654
	$a_0 = 1.6265503797064031, a_1 = -3.2628576068061705, a_2 = 0.005203418324848386, a_3 = 0.001659226868233661$	PHIN, U, DT	0.8942	0.1590
	$a_0 = -0.000990861568792134, a_1 = -0.234861475048588, a_2 = -0.046289406560419036, a_3 = 0.17608832898055302$	PHIN, U, AI	0.9719	0.0632
	$a_0 = -2.1491341043775267, a_1 = -3.9685106960798175, a_2 = 0.009767486210138334, a_3 = 0.1861326588583835$	PHIN, DT, AI	0.9776	0.0572
	$a_0 = 3.147845196817629, a_1 = -0.23439882343164406, a_2 = -0.011126074461567817, a_3 = -0.006200911209750909$	VSH, U, DT	0.8907	0.1605
	$a_0 = -0.18344427825307286, a_1 = -0.16279389573361694, a_2 = -0.0347342078253024, a_3 = 0.18609468247981578$	VSH, U, AI	0.9721	0.0613
	$a_0 = -0.4331913334169256, a_1 = -0.196182928257249, a_2 = 0.00034174589987033, a_3 = 0.1821358270439763$	VSH, DT, AI	0.9708	0.0632
	$a_0 = -0.14088964631531764, a_1 = -0.04032617261542588, a_2 = -0.0001300047747565584, a_3 = 0.18492474259512245$	U, DT, AI	0.9714	0.0618
$y = a_0 + a_1x_1 + a_2x_2 + a_3x_3 + a_4x_4$	$a_0 = 1.1430836668979019, a_1 = 0.3454716156614844, a_2 = -2.1268879710324256, a_3 = -0.1910778696825479, a_4 = -0.011756901362758771$	RHOB, PHIN, VSH, U	0.8951	0.1586
	$a_0 = -0.04959137542147529, a_1 = 0.5408614551329597, a_2 = -3.185400299414539, a_3 = -0.1816197691246446, a_4 = 0.003349627522356549$	RHOB, PHIN, VSH, DT	0.8956	0.1584

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Table 3: Logs - TD - Linear regression (Continued)

Foramt	Coff.	Logs	R2	MAE
	$a_0 = 2.4090099642436957, a_1 = -1.027614103032036, a_2 = -1.4493201851821669, a_3 = -0.14001317878019268, a_4 = 0.1811765387477416$	RHOB, PHIN, VSH, AI	0.9744	0.0596
	$a_0 = -1.16670288551685, a_1 = 0.9409623409378157, a_2 = -3.203220749312498, a_3 = -0.026891605436266248, a_4 = 0.004443899570336356$	RHOB, PHIN, U, DT	0.8950	0.1587
	$a_0 = 2.616111816766019, a_1 = -1.1263914540214837, a_2 = -1.5764570351991316, a_3 = 0.003091173849958466, a_4 = 0.18169575514746913$	RHOB, PHIN, U, AI	0.9738	0.0601
	$a_0 = -1.601885365345734, a_1 = -0.15965949505088853, a_2 = -3.9039229694083546, a_3 = 0.009060913650617433, a_4 = 0.18661438929609517$	RHOB, PHIN, DT, AI	0.9777	0.0569
	$a_0 = 0.22871783395744572, a_1 = 0.9737012909292004, a_2 = -0.22427266576159458, a_3 = -0.04416629463349653, a_4 = -0.003172792583773298$	RHOB, VSH, U, DT	0.8916	0.1602
	$a_0 = -0.23992531716562138, a_1 = 0.045154323427929355, a_2 = -0.16062836318980936, a_3 = -0.038627283502255756, a_4 = 0.1832678398040053$	RHOB, VSH, U, AI	0.9721	0.0618
	$a_0 = 1.1386509361019588, a_1 = -0.48333694474104527, a_2 = -0.18542275662767757, a_3 = -0.0013327810395566597, a_4 = 0.18379433093816344$	RHOB, VSH, DT, AI	0.9713	0.0620
	$a_0 = -1.0481493147041454, a_1 = 0.30538704558863605, a_2 = -0.05055255724403809, a_3 = 0.0008053159477369088, a_4 = 0.1844569140236123$	RHOB, U, DT, AI	0.9715	0.0620
	$a_0 = 1.7100308078453428, a_1 = -3.0784834477323946, a_2 = -0.180360006479611, a_3 = 0.008312881788413854, a_4 = 0.0012768213043735412$	PHIN, VSH, U, DT	0.8951	0.1586
	$a_0 = 0.008726189626730108, a_1 = -0.21375535587776978, a_2 = -0.1524711996174988, a_3 = -0.04237536487255588, a_4 = 0.17576792894812743$	PHIN, VSH, U, AI	0.9725	0.0626
	$a_0 = -2.063776632071757, a_1 = -3.833510863732697, a_2 = -0.10529122409983652, a_3 = 0.009439807627251603, a_4 = 0.18570468696508943$	PHIN, VSH, DT, AI	0.9779	0.0571

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Table 3: Logs - TD - Linear regression (Continued)

Foramt	Coff.	Logs	R2	MAE
	$a_0 = -1.9294066801065695, a_1 = -3.7563537864021947, a_2 = -0.015252733177650529, a_3 = 0.009080607301005414, a_4 = 0.1867851889798427$	PHIN, U, DT, AI	0.9778	0.0569
	$a_0 = -0.13088318471381355, a_1 = -0.16162857989062424, a_2 = -0.03633761502588221, a_3 = -9.349239953883866e-05, a_4 = 0.18422776790588227$	VSH, U, DT, AI	0.9721	0.0616
$y = a_0+a_1x_1+a_2x_2+a_3x_3+a_4x_4+a_5x_5$	$a_0 = -0.95240679306127, a_1 = 0.8955739650627444, a_2 = -3.0303810204807546, a_3 = -0.17189072229273428, a_4 = -0.022380015570095495, a_5 = 0.003945129060691285$	RHOB, PHIN, VSH, U, DT	0.8958	0.1584
	$a_0 = 2.5704942427211526, a_1 = -1.10286678205512, a_2 = -1.5288010434599049, a_3 = -0.14185668531364803, a_4 = 0.005701420748925166, a_5 = 0.18128054922224204$	RHOB, PHIN, VSH, U, AI	0.9744	0.0595
	$a_0 = -1.5783747166656674, a_1 = -0.1420547849808398, a_2 = -3.778425023176905, a_3 = -0.10343483709801844, a_4 = 0.008816921946159557, a_5 = 0.1861408453930309$	RHOB, PHIN, VSH, DT, AI	0.9779	0.0569
	$a_0 = -2.4631383937839626, a_1 = 0.1816213269869189, a_2 = -3.7440917424792293, a_3 = -0.021416468739916202, a_4 = 0.009606799329520972, a_5 = 0.18650088646426155$	RHOB, PHIN, U, DT, AI	0.9778	0.0570
	$a_0 = -0.906151227619128, a_1 = 0.2609048195009657, a_2 = -0.15906877586659546, a_3 = -0.045137608632951444, a_4 = 0.0007050126204123713, a_5 = 0.18383912093899674$	RHOB, VSH, U, DT, AI	0.9722	0.0618
	$a_0 = -1.8758108274440275, a_1 = -3.656351742269691, a_2 = -0.09661998250327464, a_3 = -0.01353592023599714, a_4 = 0.008857228161539308, a_5 = 0.18631901533629897$	PHIN, VSH, U, DT, AI	0.9781	0.0569
$y = y = a_0+a_1x_1+a_2x_2+a_3x_3 + a_4x_4 + a_5x_5 + a_6x_6$	$a_0 = -2.34147330156741, a_1 = 0.15819638094350646, a_2 = -3.6471075411474665, a_3 = -0.09523223579899184, a_4 = -0.018929335097534538, a_5 = 0.0093187619819397, a_6 = 0.1860780768852687$	RHOB, PHIN, VSH, U, DT, AI	0.9781	0.0570