

Schlumberger

GeoQuest

Tie Point Parameters for Directional Survey

Measured Depth	True Vertical Depth	+East -West Well Departure	+North -South Well Departure	Deviation	Azimuth
1146.0	1146.0	0.0	0.0	0.000	0.0

Coordinates

Measured Depth (ft)	True Vertical Depth (ft)	+North -South (ft)	+East -West (ft)	Course Length (ft)	Wellbore Deviation (deg)	Wellbore Azimuth (deg)
1146.0	1146.0	0.0	0.0	0.0	0.0	0.0
1156.0	1156.0	-0.2	-0.5	0.6	3.3	250.9
1166.0	1166.0	-0.4	-1.1	1.1	3.3	250.5
1176.0	1175.9	-0.6	-1.6	1.7	3.2	250.9
1186.0	1185.9	-0.7	-2.1	2.3	3.2	250.7
1196.0	1195.9	-0.9	-2.7	2.8	3.2	250.6
1206.0	1205.9	-1.1	-3.2	3.4	3.2	250.6
1216.0	1215.9	-1.3	-3.7	3.9	3.2	250.5
1226.0	1225.9	-1.5	-4.2	4.5	3.2	250.5
1236.0	1235.9	-1.7	-4.8	5.1	3.2	250.2
1246.0	1245.8	-1.9	-5.3	5.6	3.2	250.0
1256.0	1255.8	-2.1	-5.8	6.2	3.2	250.1
1266.0	1265.8	-2.2	-6.4	6.7	3.2	250.1
1276.0	1275.8	-2.4	-6.9	7.3	3.3	250.6
1286.0	1285.8	-2.6	-7.4	7.9	3.2	250.4
1296.0	1295.8	-2.8	-8.0	8.4	3.2	250.5
1306.0	1305.8	-3.0	-8.5	9.0	3.2	250.4
1316.0	1315.7	-3.2	-9.0	9.6	3.2	250.5
1326.0	1325.7	-3.4	-9.5	10.1	3.2	250.4
1336.0	1335.7	-3.6	-10.1	10.7	3.2	250.4
1346.0	1345.7	-3.8	-10.6	11.2	3.2	250.6
1356.0	1355.7	-3.9	-11.1	11.8	3.2	250.6
1366.0	1365.7	-4.1	-11.6	12.3	3.2	250.4
1376.0	1375.6	-4.3	-12.2	12.9	3.2	250.4
1386.0	1385.6	-4.5	-12.7	13.4	3.2	250.2