Directional Survey Report

Geothermal Resource Group

Well ID: AK-3 | **Well Name: AK-3**

Field: Hot Springs Bay Va Sect: 5 Town: 112W Rng: S005 County: Aleutians East State: AK

Survey Type	Meas. Depth (ft)	Inc. (deg)	Azimuth (deg)	TVD (ft)	Coordinates N-S (ft)	Coordinates E-W (ft)	Closure (ft)	Vertical Section (ft)	Dog Leg Severity (deg/100)
Well Bore: Original Well Bore				**Plane of Vertical Section: 0**					
** TieIn	0.0	0.00	0	0.0	0.0	0.0		0.0	
TOTCC	100.0	0.50							
TOTCC	129.0	0.50							
TOTCC	200.0	0.75							
TOTCC	300.0	0.25							
TOTCC	400.0	0.25							
TOTCC	500.0	0.25							
TOTCC	600.0	1.00							
TOTCC	700.0	1.00							
TOTCC	800.0	1.00							
TOTCC	900.0	0.75							
TOTCC	1,100.0	1.00							
TOTCC	1,300.0	1.00							
TOTCC	1,500.0	1.75							
TOTCC	1,700.0	1.00							
TOTCC	1,900.0	2.00							

Calculations using Minimum Curvature Method