

**Appendix C.** Calibration results for fluid pressure sensor, a component of the sampling probe used in boreholes USGS 103, USGS 105, USGS 108, USGS 131A, USGS 132, USGS 133, USGS 134, USGS 135, USGS 137A, MIDDLE 2050A, and MIDDLE 2051, Idaho National Laboratory, Idaho, 2011–13.

[**Post-calibration:** Calibration performed after sensor adjustment by the probe manufacturer. **Pre-calibration:** Calibration performed prior to sensor adjustment. **Reference pressure** measured at a specified accuracy of  $\pm 0.1$  psi. **Error:** Difference between the monitored and referenced pressure. **Abbreviations:** °C, degrees Celsius; psia, pound per square inch absolute; psi, pound per square inch]

Post-calibration, December 13, 2011				Pre-calibration, December 15, 2012			
Temperature 10.1°C		Temperature 19.9°C		Temperature 10.5°C		Temperature 20.4°C	
Reference pressure (psia)	Error (psi)	Reference pressure (psia)	Error (psi)	Reference pressure (psia)	Error (psi)	Reference pressure (psia)	Error (psi)
14.672	0.054	14.783	0.060	14.551	0.049	14.546	0.021
49.945	0.020	51.289	-0.002	49.453	-0.040	50.512	-0.038
98.814	-0.056	99.267	-0.075	98.852	-0.124	98.755	-0.119
148.922	-0.076	149.614	-0.075	148.236	-0.142	149.257	-0.126
198.782	-0.047	197.975	-0.059	198.437	-0.106	198.975	-0.088
248.640	0.009	248.398	0.004	247.797	-0.049	248.829	-0.049
297.607	0.047	298.694	0.013	298.215	-0.021	297.628	-0.018
348.147	0.083	347.625	0.052	347.388	0.029	347.256	0.002
398.171	0.077	397.485	0.064	397.525	0.015	397.967	0.014
447.300	0.027	446.993	0.010	447.703	-0.027	447.854	-0.072
496.764	-0.117	496.870	-0.142	497.802	-0.190	498.088	-0.208
449.328	0.026	449.926	-0.003	449.314	-0.062	449.097	-0.080
400.218	0.086	400.569	0.076	399.624	0.022	399.614	0.007
350.535	0.072	350.628	0.066	350.388	0.019	349.389	-0.002
300.538	0.064	300.826	0.035	297.850	-0.008	300.526	-0.035
248.155	0.027	247.778	0.044	250.545	-0.055	248.072	-0.035
201.072	-0.019	201.244	-0.015	199.742	-0.106	198.910	-0.072
147.858	-0.049	147.575	-0.085	147.998	-0.120	148.573	-0.124
99.856	-0.076	100.144	-0.060	99.805	-0.122	100.988	*.108
49.686	-0.005	50.011	-0.004	50.836	-0.036	51.532	-0.051
14.738	0.067	14.766	0.059	14.561	0.045	14.552	0.024

  

Post-calibration, December 15, 2012				Pre-calibration, August 14, 2013			
Temperature 10.5°C		Temperature 20.4°C		Temperature 10.5°C		Temperature 20.3°C	
Reference pressure (psia)	Error (psi)	Reference pressure (psia)	Error (psi)	Reference pressure (psia)	Error (psi)	Reference pressure (psia)	Error (psi)
14.551	0.083	14.546	0.066	14.627	0.084	14.635	0.091
49.453	0.000	50.512	0.009	49.739	0.013	50.342	-0.001
98.852	-0.075	98.755	-0.069	100.045	-0.067	100.352	-0.068
148.236	-0.084	149.257	-0.073	149.859	-0.073	149.735	-0.066
198.437	-0.041	198.975	-0.033	199.519	-0.046	199.111	-0.031
247.797	0.021	248.829	0.009	249.369	0.031	248.870	0.022
298.215	0.054	297.628	0.043	298.480	0.069	298.907	0.033
347.388	0.106	347.256	0.066	348.036	0.087	348.784	0.073
397.525	0.092	397.967	0.081	398.316	0.099	398.193	0.094
447.703	0.048	447.854	0.000	448.024	0.041	448.308	0.094
497.802	-0.120	498.088	-0.132	498.272	-0.112	498.050	0.021
449.314	0.012	449.097	0.009	449.823	0.050	449.792	-0.126
399.624	0.099	399.614	0.075	399.769	0.103	399.851	0.023
350.388	0.096	349.389	0.062	350.333	0.106	350.288	0.085
297.850	0.067	300.526	0.026	300.699	0.053	300.392	0.084
250.545	0.015	248.072	0.023	247.631	0.044	251.194	0.053
199.742	-0.041	198.910	-0.016	200.642	-0.028	200.645	0.033
147.998	-0.063	148.573	-0.071	148.015	-0.070	146.550	-0.032
99.805	-0.073	100.988	-0.058	97.403	-0.048	98.455	-0.064
50.836	0.004	51.532	-0.003	50.153	0.012	49.802	-0.006
14.561	0.079	14.552	0.070	14.624	0.085	14.639	0.079

**C2    Multilevel Groundwater Monitoring of Hydraulic Head and Temperature, Eastern Snake River Plain Aquifer, Idaho, 2011–13**

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**Post-calibration, August 14, 2013**

<b>Temperature 10.2°C</b>		<b>Temperature 20.1°C</b>	
<b>Ref press (psia)</b>	<b>Error (psi)</b>	<b>Ref press (psia)</b>	<b>Error (psi)</b>
14.627	0.078	14.635	0.082
49.739	0.006	50.342	-0.010
100.045	-0.075	100.352	-0.078
149.859	-0.084	149.735	-0.077
199.519	-0.059	199.111	-0.043
249.369	0.015	248.870	0.009
298.480	0.051	298.907	0.019
348.036	0.069	348.784	0.060
398.316	0.080	398.193	0.082
448.024	0.024	448.308	0.011
498.272	-0.126	498.050	-0.134
449.823	0.033	449.792	0.013
399.769	0.084	399.851	0.073
350.333	0.087	350.288	0.071
300.699	0.035	300.392	0.040
247.631	0.028	251.194	0.020
200.642	-0.041	200.645	-0.044
148.015	-0.081	146.550	-0.075
97.403	-0.057	98.455	-0.074
50.153	0.005	49.802	-0.015
14.624	0.079	14.639	0.071