



# BOREHOLE GEOPHYSICAL LOG

English/Metric units

<b>SitelD (C1)</b> 433837113011201		<b>Station name (C12)</b> USGS-142		<b>Other ID</b>	
<b>County</b>			<b>State</b> Idaho		<b>Log date</b> 11/23/2015
<b>Owner</b> USGS INL PO				<b>Project</b> USGS Drilling	
<b>Location description</b> Near Howe Idaho					
<b>Latitude</b> 43deg 38min 37.0 sec N		<b>Longitude</b> 113deg 01min 12.6sec W		<b>Lat/Long datum</b> NAD27	
<b>Altitude LMP</b>		<b>Altitude datum</b>		<b>Log measurement point (LMP)</b>	
<b>Height LMP</b>			<b>Description of LMP</b>		
<b>Borehole depth</b> 1880 ft BLS		<b>Borehole diameter</b> 5.9-in. / 4.0-in.		<b>Casing bottom</b> PQ rods set near 651 ft bls	
<b>Casing diameter</b> 6-inch steel		<b>Casing type</b> HQ core rod (steel pipe)		<b>Source of data</b>	
<b>Logging unit</b> USGS		<b>Log orientation</b>		<b>Magnetic declination</b> 12.5 deg	
<b>Recorded by</b> Brian Twining			<b>Observed by</b>		
<b>Software non-ASCII logs</b> Century			<b>Type of log</b> Century		
<b>Fluid type</b> ESRP Aquifer			<b>Fluid depth below LMP</b> Varies see notes		<b>at time</b> NA
<b>Hydrologic conditions</b> Depth to water changed as drilled deeper, suggesting upward flow and considerable head change. Water appears to be coming up the hole and exiting within					
<b>Tool manufacturer and model, tool serial number, log date and time, logging direction and speed, depth error after logging, log parameter(s) and date(s) of calibration check</b>					
<b>Tool run 1</b> Tool ID: 9057A / Serial #: 1077. Calibrated 3/31/2015. Logs included: neutron and natural gamma. 9057A run 11/23/2015 through NQ pipe. Up log run from 1850 ft to land surface at 30 ft/min.					
<b>Tool run 2</b> Tool ID: 0024 / Serial #: 776. Logs included: Density short and long spaced density (DEN SS and DEN LS). Density log run 11/23/2015 through NQ-pipe. Up log run from 1850 ft to land surface.					
<b>Tool run 3</b> Tool ID: 9042A / Serial #: XXX. Logs run through NQ pipe, trolling up at 10 ft/min. Note: this was the first tool run on 11/23/2015.					
<b>Remarks</b> NQ-size pipe (2.375-in. ID/2.750-in. OD) - pipe was set at 1866 ft BLS on 11/18/2015. USGS Drillers used drilling mud (Quick-Gel and soda ash - mud weight approx. 8.6 lbs/gal) during coring, residual mud is still present. No circulation occurred during coring and about 250,000 to 300,000 gallons water/mud were introduced during coring. Water Level data shows measureable change from 850 ft BLS (near 532 ft BLS) to when drilled to 1880 ft BLS (447 ft BLS).					

