

ASSAY REPORT ON SAMPLES COLLECTED FROM
BEAR LODGE MOUNTAINSby
W. Dan Hausel
1988

A group of samples collected in the Bear Lodge Mountains on 5/18/88 and 5/19/88 for gold showed discouraging results. The following samples were collected and assayed (nd=not detected).

Sample no.	Description	Au (ppm)	Ag (ppm)	Mn (%)	Cu (%)
BL1-88	Grab sample of altered alkalic from dump (NW/4 sec. 20, T.52N., R.63W.).	nd	--	--	--
BL2-88	Fluorospars with limonite boxworks from trench in SE/4 SE/4 sec. 28, T.52N., R.63W.	nd	--	--	--
BL4-88	Iron-stained alkalic collected from mine dump on Ogden Creek (sec. 27, T.52N., R.63W.).	nd	--	--	--
BL5-88	Iron-stained alkalic from adit (Barbie Doll) on Ogden Creek (SW/4 sec. 27, T.52N., R.63W.).	0.12	--	--	--
BL6-88	Precambrian granite (SW/4 sec. 20, T.52N., R.63W.).	nd	1.1	0.1	--
BL7-88	Fine-grained granite with disseminated limonite	nd	--	--	--
BL8-88	Grab samples from mine dump (N/2 sec. 20, T.52N., R.63W.).	nd	--	--	--
BL9-88	Manganese vein with hematite in altered alkalic (N/2 sec. 20, T.52N., R.63W.).	nd	3.1	0.018	--
BL10-88	Manganese vein in altered trachyte (N/2 sec. 20, T.52N., R.63W.).	nd	2.1	0.040	--
BL11-88	Feldspathic breccia from prospect pit (NW/4 sec. 17 T.52N., R.63W.).	nd	nd	0.054	--
BL12-88	Breccia collected adjacent to carbonatite (SW/4 SW/4 sec. 8, T.52N., R.63W.).	nd	--	--	--
BL13-88	Trachyte, partially replaced by manganese (SE/4 sec. 17, T.52N., R.63W.).	nd	7.3	7.5	--
BL14-88	Trachyte, partially preplaced by manganese (SE/4 sec. 17, T.52N., R.63W.).	nd	2.3	5.1	--
BL15-88	Altered argillized alkalic, stained with manganese (W/2 NW/4 sec. 1, T.52N., R.63W.).	nd	nd	0.44	--
BL16-88	Agatized Pahasapa limestone (W/2 NW/4 sec. 18, T.52N., R.63W.).	nd	nd	--	--
BL17-88	Pyritized, copper-stained alkalis from Copper Prince prospect (NW/4 sec. 17, T.52N., R.63W.).	nd	7.9	0.016	2.5
BL18-88	Copper-stained breccia from dump south of Copper Prince mine	0.10	8.6	0.03	2.3

Based on the few samples collected (and field observations) and analyzed, the Bear Lodge may contain significant, low-grade manganese and silver resources in addition to the large rare earth and thorium resources reported by Staatz (1983). (See USGS Professional Paper 1049-D). Silver appears to accompany manganese replacements. Manganese stains appear to lack silver.

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LABORATORY REPORT

Client Sample No.: as listed

GSW Lab No.: 880525

Client: Dan Hausel

Sample Description:

Bear Lodge & Moron Canyon

Analyses Requested: Au, Ag, Mn, Cu

Methods & Results:

Aqua regia digest, Au extracted into MIBK, Ag, Mn, Cu in acid sol
Atomic Absorption

<u>Sample #</u>	<u>Au, ppm</u>	<u>Ag, ppm</u>	<u>Mn, %</u>	<u>Cu, %</u>
BL-1-88	---			
BL-2-88	---			
BL-4-88	---			
BL-5-88	0.12			
BL-6-88	---	1.1	0.10	
BL-7-88	---			
BL-8-88	---			
BL-9-88	---	3.1	0.018	
BL-10-88	---	2.1	0.040	
BL-11-88	---	---	0.054	
BL-12-88	---			
BL-13-88	---	7.3	7.5	
BL-14-88	---	2.3	5.1	
BL-15-88	---	---	0.44	
BL-16-88	---	---		
BL-17-88	---	7.9	0.016	2.5
MC-1-88	---	---		
MC-2-88	0.58	1.6	0.20	0.67

--- = not detected, Au less than 0.05 ppm
Ag less than 1.0 ppm

no entry = not analysed for

Analyst: Jay Robert Date: June 21, 1988

Excess Sample: returned discarded xx store 6 months, discard store perm

GSW Lab No. : 880525

