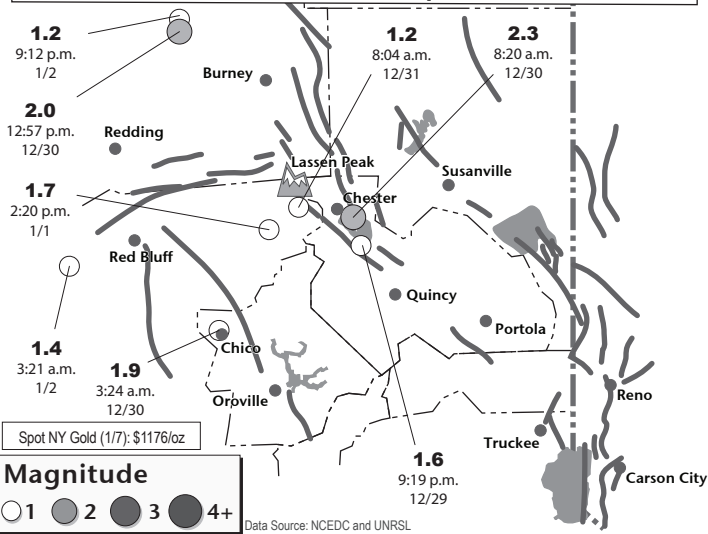


Earthquake Report

December 29- January 6

By: Charles P. Watson, California Professional Geologist No. 7818

Aurora, NV M 5.7, 5.7. 5.1 Earthquakes, Dec. 28, 2016



Magnitude M≥1	1	2	3+	Total
Regional	6	2	0	8
Previous week	12	3	0	15

■ Three M 5 earthquakes struck about 116 miles southeast of Reno, 26 miles north-east of Bridgeport, CA and 18 miles south-west of Hawthorne, NV just after midnight on December 28. The activity occurred five miles east of the Aurora-Borealis Mine in Mudd Springs Valley. Ongoing analysis by the Nevada Seismological Laboratory reported the first quake measured M 5.6 and occurred at 12:18 a.m., the second measured M 5.6 and occurred at 12:22 a.m. and the third measured M 5.5 and

occurred at 1:13 a.m. The second event actually occurred about one mile north of the other two. The focal depths were about 5-6 miles below the surface and the type of fault motions were strike-slip with a significant normal-slip component. The earthquakes were strongly felt at Hawthorne, Bridgeport and Lee Vining, and felt as far away as the California Central Valley, from Chico to Visalia. There were no official reports of damage, however, it is highly likely there was damage at the Aurora-Borealis Mine. A substantial aftershock sequence followed that has included hundreds of events, including 21 M 3s.

■ Local activity was relaxed again below the 10 quake-per-week level.

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