

**SELECTED DEPOSITS (3)**

44	Tungsten Mountain mine
45	Star mine
135	Terrell mine
161	Bloom Flumpe deposit
190	Dawley Canyon mica area
194	Majuba Hill East
195	Mount Hope
211	Guanacaste mine
218	West Ore Body Copper Canyon
267	Culverwell adit
272	Calavada mine
288	Jumbo Pb prospect
295	Tipoli mine
296	Kayson mine
307	Digs & Little claims
308	McCoy Iron mine
309	Hogle
337	Tombey-Minick mine
340	Prince Of Wales mine
341	Silver Park mine
346	Simon mine
358	Gold Chief mine
366	Cortez Metals mine
386	Eureka Consolidated
399	Downsville mine
428	Groom mine
434	Hunter-Vulcan
440	Mountain View mine
443	Mineral Hill mines
445	Lead Pipe property
457	New Fowler mine
458	Black Forest mine
461	Jackson mines
466	Guanacaste mine
466	Polar Star group
468	Iron Cap claim
472	Dakota mine
473	South Pew
488	Lone Tree
496	Windfall mine
497	Hilltop mine
498	Cove
507	Humboldt mine
520	White and Shish mine
532	Rescue mine
534	Teacup (Bloom) mine
555	Phillipsburg mine
559	Don Dale mine
565	Lucky Girl
572	Kammer-Silver King mine
593	Valley group
595	Imperial group
596	Klondike mine
598	Dory
601	Betty O'Neal mine
608	Rip Van Winkle
612	Protection group mine
620	Ore Lovell
712	Silver Chief mines
713	North Star claims group
716	Quartzite mine
718	Auburn mine
721	Silver King
722	Downsland mine
723	Silver Dyke mine
735	Paray Lee mine
739	Troy and Gray Eagle mine
746	Dinick mine
754	Columbia mine
755	Charolene mine
763	Rader claim
771	Wall Street mine
773	Camp Dupont group
774	Homesdale group
777	Key West
792	Williams mine
797	Jack-Joker claim
798	Aurora mine
799	Jumbo mine
801	Alex mine
802	Golden Pen mine
804	Nevada Road
805	Broken Hills mine
807	Montgomery-Shoshone mine
808	National Bank mine
809	Original Bullfrog mine
810	Mist mine
813	Como-Baroka
819	Alpha claim
822	Chesapeake Virginia mine
872	Cornucopia
876	Delamar mine
879	Topopah Divide mine
881	Cordillera mine
884	Homesbore mine
893	Golden Crown group
897	Red Mountain mine
916	Nevada Hills mine
920	Mammoth prospect
929	St Paul
931	Jep group
932	Bockeye and Ohio
934	San Jack group
935	Black Stone mine
954	Long Hike
967	Silver King claims
968	Levitt mine
970	Longstreet mine
972	April Foot mine
973	Red Mountain prospect
981	White Caps mine
987	National mine
990	Buster mine
998	Gooseberry mine
999	Ramsay
1003	Barbidge group
1008	Dreamland mine
1010	Gold Hill mine
1014	Kindergarten and Winjua mines
1017	16 to 1 mine
1022	Silver Glance group
1030	Land Mark mine
1037	Topopah Mining Co
1038	Tinny Silver mine
1048	Narajo
1052	Hem Silver mine
1053	Frazz Hammet mine
1054	Willard group
1065	Nevada Wonder mine
1094	Paymaster
1074	Quo Vadis
1089	Mohawk mine
1094	Paymaster
1095	Jones-Kincaid
1099	Atlanta mine
1101	Buckhorn mine
1102	Topopah Hardscreek mine
1104	Paradise Peak gold deposit
1106	Florida Canyon mine
1108	Hog Ranch
1109	Borealis mine
1112	Male Canyon
1113	Fire Creek
1114	Round Mountain Mining Co
1116	Santa Fe gold mine
1117	Sleeper
1118	Lewis
1119	Hulse mine
1122	Lucky Day claims
1125	Coalder prospect
1130	Dacie Creek
1134	Race Track mine
1160	Virgin Valley Uranium claims
1164	Goconda Tungsten mine
1170	Black Rock prospect S
1171	Black Jack mine
1174	Raven Manganese group
1177	Mayflower
1182	Pending mine
1184	Dutch Flat mine
1185	Black Jack mine
1191	Lost Star mine
1193	Calli mine
1198	Freckles mine
1199	Horton mine
1202	Red Devil mine
1211	Red Ore mine
1215	Poinsetta mine
1216	August prospect
1217	Andesite mine
1223	B & B mine
1223	Harvey mine
1228	Mammoth 1-5 claims
1230	Castle Rock mine
1231	Goldbanks Quicksilver mine
1235	Bute Quicksilver mine
1240	Midas
1245	War Cloud property
1247	Andesite property
1248	Montezuma prospect (H)
1249	Mount Tobin mine
1251	Moccasin group
1255	Modernt mine
1259	Black Hawk mine
1261	De Longchamps prospect
1265	King George mine
1270	A and B mine
1273	Mercury Mining Co mine
1292	Hoy mine
1298	Dry Canyon mine
1301	Eagle prospect
1303	Michoud mine
1304	King Solomon mine
1327	W P mine
1347	Wood Gulch
1348	Alligator Ridge mine
1349	Gold Pick
1350	Gold Ridge
1351	Gold Stone
1354	Margold mine
1355	Big Springs
1356	Excelsior
1357	Dee gold mine
1358	Gold Acres open pit mine
1360	Burns Basin gold prospect
1361	Jeritt Canyon gold
1362	Winters Creek
1363	Wright Window
1365	Cortez gold mine
1366	Horse Canyon mine
1367	Pipeline
1373	Bullfinch Monarch mine
1374	Carlin gold mine
1375	Genesis
1376	Gold Strike mine
1380	Post
1381	Gold Quarry mine
1382	Maggie Creek open pit gold mine
1384	Northumberland mine
1385	Twin Creeks (Chinsey)
1388	Pebble deposit
1389	Pison mine
1391	Rain
1394	Gold Bar
1395	Gold Canyon
1396	Stuigmeyer property
1397	Tonkin Springs
1399	Relief Canyon gold deposit

**EXPLANATION**

**Deposit environment**

**Extrusive rocks**

**Felsic to mafic extrusive rocks**

Suberial	Model (1)	Age (Ma) (2)		
		0 - 17	17 - 34	34 - 43
Deposits mainly within volcanic rocks		★	★	+
Hot-spring gold-silver	25A	★	★	+
Comstock epithermal vein	25C	+	+	+
Sado epithermal vein	25D	+	+	+
Epithermal quartz-alunite	25E	+	+	+
Volcanogenic uranium	25F	+	+	+
Epithermal manganese	25G	+	+	+
Rhyolite-hosted tin	25H	+	+	+
Deposits in older calcareous rocks		■	■	■
Sediment-hosted gold	26A	■	■	■
Sediment-hosted mercury	---	■	■	■
Deposits in older clastic sedimentary rocks		▲	▲	▲
Hot-spring mercury	27A	▲	▲	▲
Simple antimony	27D	▲	▲	▲

**Felsic intrusions**

Mainly phanocrystalline textures	Model (1)	Age (Ma) (2)
Granitic intrusions		●
Wallrocks are calcareous	14A	●
Tungsten vein	15A	○
Other wallrocks		○
Tungsten vein	15A	○
Porphyrophanitic intrusions present		◆
High-silica granites and rhyolites	16A	◆
Climax molybdenum	16A	◆
Other felsic and mafic rocks		⊕
Porphyry copper	17A	⊕
Wallrocks are calcareous		▲
Deposits near contact		▲
Porphyry copper, skarn related	18A	▲
Copper skarn	18B	▲
Zinc-lead skarn	18C	▲
Iron skarn	18D	▲
Gold skarn	18F	▲
Deposits far from contact		×
Polymetallic replacement	19A	×
Replacement manganese	19B	×
Distal-disseminated silver-gold	19C	×
Wallrocks are older igneous and sedimentary rocks		■
Deposits within wallrocks		■
Polymetallic vein	22C	×

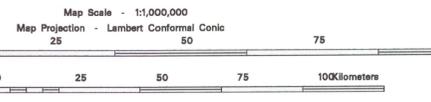
**Regionally metamorphosed rocks**

Derived mainly from pelitic and other sedimentary rocks	Model (1)	Age (Ma) (2)
Gold on flat faults	37B	▲

Alluvium	■
0-6 Ma Mostly basaltic lava flows.	■
6-17 Ma Mostly basaltic lava flows and some high-silica rhyolite flows and domes in the northern part of the state and south 38° Lat. Andesitic and dacite flows and intrusive rocks in the western part of the state.	■
17-34 Ma Mostly rhyolitic to dacitic ash-flow tufts. Some andesitic lava flows and a few granitoid plutonic rocks.	■
34-43 Ma Mostly rhyolitic to dacitic ash-flow tufts. Some andesitic lava flows and a few granitoid plutonic rocks.	■
Older than 43 Ma Sedimentary rocks, granitoid plutonic rocks and some metamorphic rocks.	■

**CENOZOIC VOLCANIC ROCKS AND CENOZOIC MINERAL DEPOSITS OF NEVADA**

By  
**Edwin H. McKee, Barry C. Moring, and Donald F. Huber**



(1) Cox, D.P., and Singer, D.A., eds., 1986, Mineral deposit models: U.S. Geological Survey Bulletin 1693, 370 p.

(2) The age designation of the mineral deposits is based on more than 100 radiometric ages of mineral deposits, many unpublished, and on geologic field observations and mapping. Most of the age determinations were done by the K-Ar or the <sup>40</sup>Ar/<sup>39</sup>Ar technique; a few were done by fission-track. The K-Ar and analysis was on potassium-bearing material that was judged to be related to mineralization at a given mine or mining district. These materials include adularia, albite, biotite, hornblende, sericite, and a few determinations on illite, kaolinite and whole-rock samples. In some places unmineralized host rocks were dated giving a maximum age possible for the deposit, in some places unmineralized overlapping units were dated giving a minimum age; locally both older and younger rocks occur giving a bracketed age. A strong relationship between age of mineralization or alteration and age of igneous activity is seen in Nevada. In general, the deposits are less than 17 million year old in western Nevada as are most of the Cenozoic igneous rocks. Deposits 17 to 34 Ma are concentrated in the igneous rocks of that age (17 to 34 Ma) that form a NW-SE belt crossing west central Nevada and those 34 to 43 Ma are in the northeastern part of the state.

(3) The 228 sites shown here are selected from about 1400 mines and mineral locations shown in Sherlock and others (this folio). The mine number is the same as on those maps. Only Cenozoic deposits are shown for which there is enough information to judge its age and mineral deposit type.