

**Figure 6.1B List of Map Units, NE Buckskin Range, Nevada  
J. M. Proffett, July 1988**

|                 |   |
|-----------------|---|
| Q               | Alluvium, Colluvium, windblown sand.  |
| Tai, Tha<br>Tdi | Tertiary hornblende andesite intrusives and related diorite.<br>May include some Thb (plg and hb phenocrysts).  |
| Thb             | Biotite hornblende andes. or dacite porphyry intrusive. Contains bi hb plg and rare quartz phenocrysts.   |
| Tbm             | Tuff of Bluestone Mine. Includes Eureka? Creek? Canyon? Tuff and Nine Hills Tuff.   |
| Ts              | Singatse Tuff   |
| T <sub>7</sub>  | White sediments and unwelded tuff   |
| Tw              | Weed Heights Member Mickey Pass Tuff  |
| T <sub>4</sub>  | White poorly welded ignimbrite  |
| Tg              | Guild Mine Member Mickey Pass Tuff, Tg <sub>2</sub> =upper part, Tg <sub>1</sub> =lower part.   |
| Tc              | Early Tertiary conglomerate and sedimentary breccia   |
| Tei             | Early Tertiary ignimbrite remnants  |
| Jw              | Tuff of Willow Spring - 30-50% 1/2 to 3 mm broken plag. crystals; 7-10% 1/4 to 1 mm hornblende, 1-3% 1 mm biotite, rare broken quartz crystals, 1-5% 1 to 2 cm lithics, epidote and chlorite alteration.  |
| Jff             | Strongly flow banded dacite (?) or latite porphyry. Plagioclase phenocrysts (1 to 5 mm) vary from 7-15% to 20-25%. 5-12% 1 to 4 mm hornblende, Fe-oxide grains. Rare to absent quartz, biotite and/or .5 cm K-feldspar phenocrysts. May be different ages in different areas.   |
| Jfx             | Breccia. Most fragments are similar to Jff.   |
| Jfh, Jfhi       | North Buckskin Range (BK-45: Pb-U zircon age 166.5 ± 0.4 m.y., Dilles & Wright, 1988, from this unit). Massive porphyry, locally with phenocryst alignment. 10-20% 1 to 7 mm plagioclase, 4-7% 1 to 5 mm hornblende, trace to less than 1% 1 to 2 cm K-feldspar, 2 to 5 mm quartz varies from 1/4-1% to 1-3% locally, <1/2% Fe oxide grains. Locally minor biotite is present. May include more than one unit. Jfhi - Similar to Jfh, but intrusive, surrounded by Ja, etc. |
| Jfi             | Porphyry dikes in Artesia and older rocks that have mainly plagioclase and hornblende phenocrysts and sparse to absent K-feldspar, quartz and/or biotite in a fine grey groundmass. Generally was mapped as "late" type or "chilled" type Jqmp in main part of Yerington district. Jfi may include some   |

exposures that should have been included in Jqmp.

- Jf<sub>2</sub> Massive porphyry with 5-10% 1 to 4 mm plagioclase phenocrysts, very rare large K-feldspar phenocrysts, 1-3% 1 mm biotite phenocrysts, and altered hornblende phenocrysts in a medium grey to purple groundmass with 15-20% very fine specks of leucoxene after mafic minerals.
- Jft Welded tuff; 30-50% 1 to 3 mm broken plagioclase crystals, 3-6% 1/2 to 3 mm broken quartz crystals, 5-7% biotite and hornblende, very rare dark flattened pumice fragments and rare lithic fragments. Very rarely relict shard texture visible.
- Jfs Sandstone, conglomerate, sedimentary breccia and siltstone with various types of Fulstone and Artesia fragments. Includes a thin welded tuff breccia SW of Artesia VABM. Occurs at several different horizons. Beds of Jfs at base of Fulstone contain no Fulstone or Jqmp fragments (other than "Jfd" type) and should perhaps be labeled "Jas."
- Jf Massive porphyry with 7-30% 1 to 5 mm plagioclase, 1/4-1% .7 to 2 cm K-feldspar, 1/2-3% 1 to 3 mm quartz eyes, 3-7% hornblende, 1-3% biotite books. May be partly intrusive and partly extrusive, and may include units of different age. May be in part related to "Jfm"
- Jfb Welded tuff breccia with abundant lithic fragments, of which many are quartz latite porphyry with 5-15% 1 to 3 mm plagioclase, 1-2% 1 cm K-feldspar phenocrysts, 1-2% 1 to 3 mm quartz phenocrysts, 1/2 -1% biotite books and 1-3% hornblende phenocrysts.
- Jfq, Jfqx Massive to flow banded porphyry with 10-25% 1 to 5 mm plagioclase, 2-10% (ave. 4-5%) 0.5 to 1.5 cm K-feldspar, 1-10% (ave. 3-4%) 1 to 4 mm quartz, 1-4% 2 to 4 mm biotite books, 2-5% 1 to 5 mm hornblende in a pale green to pale grey groundmass. Locally contains abundant inclusions (probably cognate) of Jqmp, some with aplitic groundmass. Probably volcanic equivalent of some of the Jqmp. Jfqx is volcanic breccia with fragments of the massive porphyry.
- Jqmp Porphyry dikes in Artesia and older rocks with 10-25% 1 to 5 mm plagioclase, 2-5% (or more) 1/2 to 1 1/2 cm K-feldspar, 2-5% quartz phenocrysts, 1-3% biotite books and 2-4% hornblende in a pale green to white groundmass. Can locally be traced to Jfq exposures. Includes some exposures with less quartz and/or K-feldspar, some of which should possibly have been included in Jfi.
- Jfd Dacite porphyry with 10-20% 1/2 to 2 mm plagioclase 1-3% 1 mm biotite flakes and 3-5% 1/2 to 3 mm hornblende in a green to grey groundmass. Transitional in character between Artesia fine grained porphyries (Ja) below and Fulstone coarse porphyries above. In some areas fresh or weakly altered Jfd overlies intensely altered Ja or Jas, and in some areas Jfd is intensely altered and is overlain by less altered or rarely by similarly altered Fulstone porphyries.

- Jas Sandstone sedimentary breccia and conglomerate with fragments of Artesia andesite(?), andesite (?) porphyry and silica rock (silicified rock and/or sinter). May itself be silicified as well as have fragments of earlier silicified rock.
- Jsi Massive silica rock with no relict texture--may be sinter (?).
- Jax Volcanic breccia of Ja fragments.
- Ja Andesite and/or dacite and andesite and/or dacite porphyry, including massive and volcanic breccia undifferentiated. Porphyry contains 5-30%  $1/4$  to 2 mm plagioclase phenocrysts. Groundmass is grey to purplish (similar to that in some Fulstone porphyries) where not strongly altered, but in many places is green due to chloritization. Ja graded into fine Jgd with increase in abundance of subhedral fine plagioclase, especially at depth below Tertiary surface. Ja includes some Jax and Jas.
- Jbx Intrusive breccia in Standard Slag Mine of silicic to intermediate composition; fine grained.
- Jsqm, Jqm, Jbqm, Jgd, Jgy, JI, JTRd, TRl, TRad, TRvl:  
See Proffett and Dilles, 1984 map legend