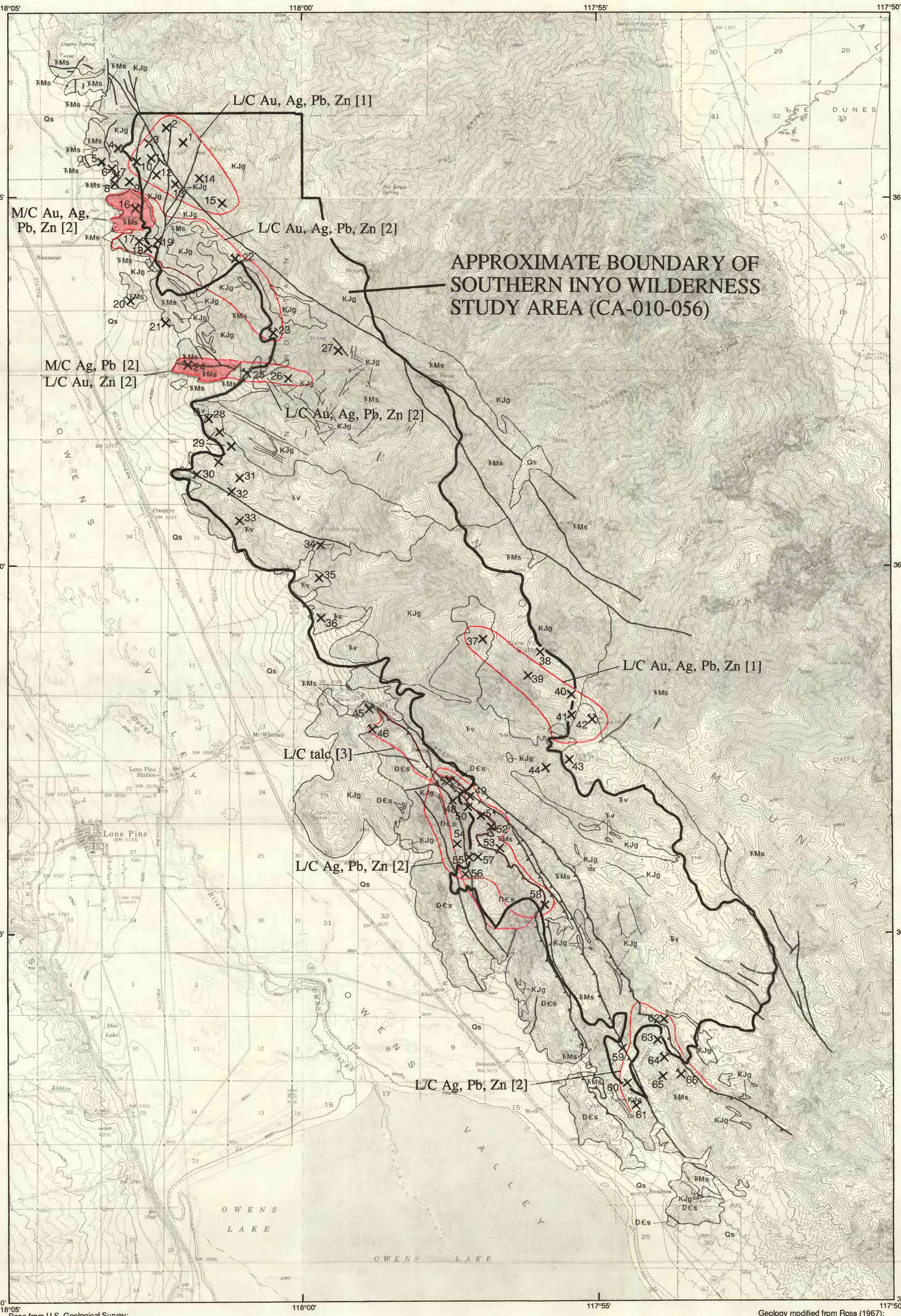


Base from U.S. Geological Survey:
New York Butte, 1950; Independence,
Waucoba Wash, 1951; Lone Pine, 1958

Geology modified from Ross (1967);
field mapping by W.C. Smith, 1947-52,
and J.E. Conrad, E.H. McKee, and
D.A. Dellinger, 1982-85

SCALE 1:62 500

1 ½ 0 1 2 3 4 5 MILES

1 .5 0 1 2 3 4 5 KILOMETERS

CONTOUR INTERVAL 80 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

14°
TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 1987

CALIF
AREA OF MAP

MINERAL RESOURCE POTENTIAL MAP OF THE SOUTHERN INYO WILDERNESS STUDY AREA, INYO COUNTY, CALIFORNIA

EXPLANATION

GEOLOGIC TERRANE HAVING MODERATE MINERAL RESOURCE POTENTIAL

GEOLOGIC TERRANE HAVING LOW MINERAL RESOURCE POTENTIAL

LEVELS OF RESOURCE POTENTIAL

- H High mineral resource potential
- M Moderate mineral resource potential
- L Low mineral resource potential
- U Unknown mineral resource potential

LEVELS OF CERTAINTY

- A Available data not adequate
- B Data indicate geologic environment, and suggest level of resource potential
- C Data indicate geologic environment, indicate resource potential, but do not establish activity of resource-forming processes
- D Data define geologic environment and level of resource potential and indicate activity of resource-forming processes in all or part of area

LEVEL OF RESOURCE POTENTIAL	A	B	C	D
	U/A UNKNOWN POTENTIAL	H/B HIGH POTENTIAL	H/C HIGH POTENTIAL	H/D HIGH POTENTIAL
		M/B MODERATE POTENTIAL	M/C MODERATE POTENTIAL	M/D MODERATE POTENTIAL
		L/B LOW POTENTIAL	L/C LOW POTENTIAL	L/D LOW POTENTIAL
				N/D NO POTENTIAL

LEVEL OF CERTAINTY

COMMODITIES

Ag	Silver
Au	Gold
Pb	Lead
Zn	Zinc
talc	

[ ] TYPES OF DEPOSITS

1 Hydrothermal veins cutting granitic rocks, generally associated with shear zones

2 Hydrothermal veins, stockworks, or bedded replacement bodies in or near carbonate rocks, generally associated with shear zones

3 Hydrothermal talc deposits formed near contacts between granitic rocks and dolomite

CORRELATION OF MAP UNITS

Qs	Quaternary	CENOZOIC
KJg	Cretaceous to Jurassic	MESOZOIC
Tv	Triassic	MESOZOIC
TRMs	Triassic to Mississippian	MESOZOIC
DЄs	Devonian to Cambrian	PALEOZOIC

DESCRIPTION OF MAP UNITS

Qs **Surficial deposits (Quaternary)**--Includes alluvium, colluvium, and landslide deposits

KJg **Granitic rocks (Cretaceous to Jurassic)**--Includes the Hunter Mountain Quartz Monzonite (Jurassic), the Independence dike swarm (Jurassic), and other medium- to coarse-grained diorite to alaskite bodies

Tv **Volcanic rocks (Triassic)**--Consists of andesite flows, tuffs, and breccias interbedded with sandstone, shale, and conglomerate

TRMs **Calcareous sedimentary rocks (Triassic to Mississippian)**--Consists of thin- to thick-bedded limestone interbedded with shale, siltstone, and sandstone and dark-gray to black argillaceous shale. Includes unnamed Triassic limestone and shale, the Conglomerate Mesa Formation (Permian), Lone Pine Formation (Permian), Keeler Canyon Formation (Pennsylvanian), Rest Spring Shale (Mississippian), and the Perdido Formation (Mississippian)

DЄs **Limestone, dolomite, and quartzite (Devonian to Cambrian)**--Consists of thin-bedded to massive, white to dark-blue-gray limestone and marble, massive white to tan dolomite, cherty limestone and dolomite, and quartzite. Includes the Lost Burro Formation (Devonian), Hidden Valley Dolomite (Devonian and Silurian), Ely Springs Formation (Ordovician), Eureka Quartzite (Ordovician), Barrel Springs Formation (Ordovician), Badger Flat Formation (Ordovician), Al Rose Formation (Ordovician), and the Tamarack Canyon Dolomite (Cambrian)

Contact

Fault

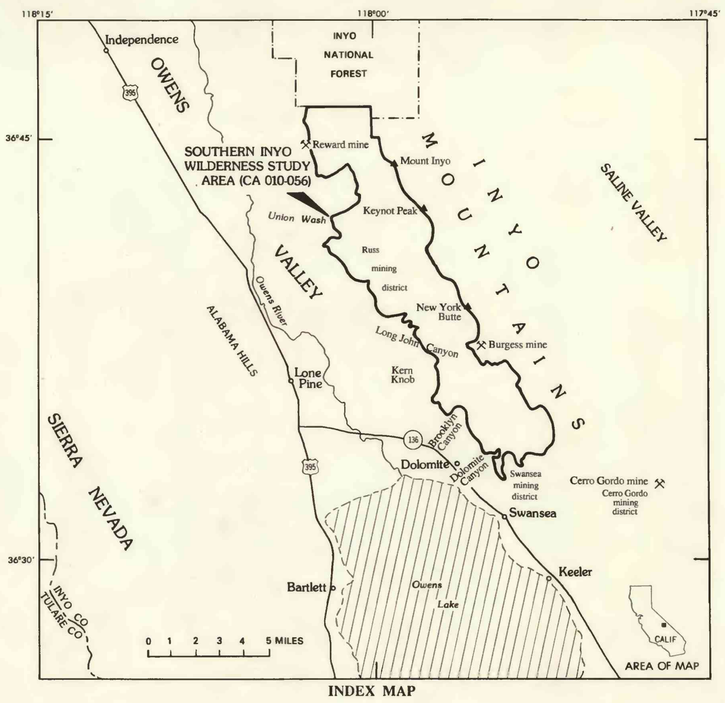
Thrust fault--Sawteeth on upper plate

16 **Mine**--Number refers to list below and appendix of text

1 **Prospect**--Number refers to list below and appendix of text

MINES AND PROSPECTS

1. Unnamed prospect
2. Valley View prospect
3. Unnamed prospect
4. Rolling Thunder No. 3 prospect
5. Peacock Nos. 1 and 2 prospect
6. Unnamed prospect
7. Unnamed prospect
8. Unnamed prospect
9. Frostbitten prospect (Ida)
10. International Recovery prospect (Ida)
11. Unnamed prospect
12. Unnamed prospect
13. Unnamed prospect
14. Unnamed prospect
15. Spanish Belt prospect
16. Reward mine area (Eclipse, Brown Monster)
17. Annex-Arrow group
18. Julie L. prospect
19. Sweet Thing No. 2 prospect
20. Inyo Bee prospect
21. Lucky Slim mine
22. Pinyon (Poorchild-Raven) group
23. Old Grindstone mine
24. Silver Spur mine (Union)
25. Cheri No. 20 mine
26. Unnamed prospect
27. San Pablo prospect
28. Howard No. 7 prospect
29. Cynthia Nos. 1-22 prospect
30. Golden Lady prospect
31. Hummingbird prospect
32. Hancock No. 1 prospect
33. Patent Pending prospect
34. Duarte prospect
35. Unnamed prospect
36. Unnamed prospect
37. Unnamed prospect
38. Unnamed prospect
39. Unnamed prospect
40. Macaroon prospect
41. Million Dollar Baby prospect
42. Burgess mine area
43. Unnamed prospect
44. Far Ridge prospect
45. Black Warrior mine
46. Delthe Black Warrior mine
47. Long John mine
48. Unnamed prospect
49. Unnamed prospect
50. Unnamed prospect
51. Unnamed prospect
52. Unnamed prospect
53. Unnamed prospect
54. Unnamed prospect
55. Long Trail mine
56. Unnamed prospect
57. Unnamed prospect
58. Copper Summit prospect
59. Unnamed prospect
60. Silver Reef No. 5 prospect
61. Pennsylvania mine
62. Unnamed prospect
63. Unnamed prospect
64. Flagstaff mine
65. Unnamed prospect
66. Bud's Hope mine



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