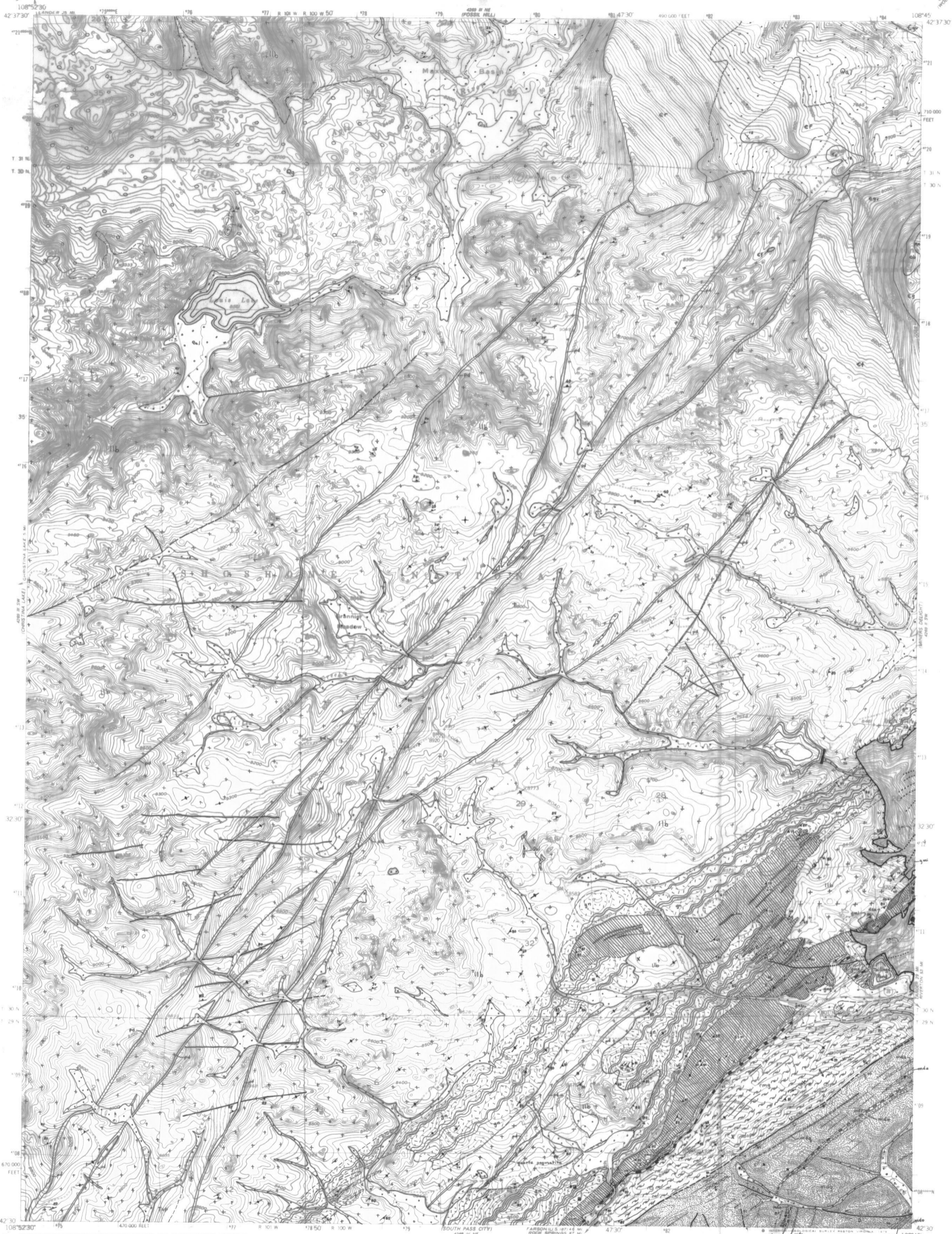


REVISED GEOLOGIC MAP OF THE LOUIS LAKE QUADRANGLE, FREMONT COUNTY, WYOMING

by  
W. DAN HAUSEL  
1988



EXPLANATION

|            |   |          |   |               |  |          |  |          |   |             |  |         |  |  |   |
|------------|---|----------|---|---------------|--|----------|--|----------|---|-------------|--|---------|--|--|---|
| QUATERNARY | ALLUVIUM<br>Stream sediments and gravels                  | TERTIARY | LOTH PASS FORMATION<br>Calcareous conglomerales, white volcanic ash, light gray to white feldspathic sandstone. Flings to massive age, although portions may be Eocene. | MISSISSIPPIAN | MADISON LIMESTONE<br>Chiefly light and dark gray dense limestone. Thickness 800 to 600 feet. | DEVONIAN | SIGMON DOLomite<br>Massive white cliff-forming dolomite. Weathers to a rough and pitted surface. Thickness 80 to 100 feet. | CAMBRIAN | GALLATIN FORMATION<br>Cliff forming limestone, shale, limestone conglomerales, and sandstone. Thickness 100 to 150 feet.  | PROTEROZOIC | URDS VENTRE FORMATION<br>Shale, sandstone, glauconitic sandstone, and sandstone. Forms poorly exposed slopes. Lower part red, green, and gray sandy shale and thin bedded glauconitic and ferruginous sandstone. Upper part calcareous shale and thin bedded calcic and conglomerales sandstone. Thickness 800 to 1000 feet. | ARCHEAN | FLATHEAD SANDSTONE<br>Tan to reddish-brown, crossbedded sandstone, quartzite, and conglomerales. Thickness 200 feet. | SUPRACRUSTAL METASEDIMENTARY AND METAIGNEOUS ROCKS | MINEERS DELIGHT FORMATION<br>mdg, metagraywacke; feldspathic and micaceous metagraywacke and mica schist. A 10-15 mile wide track section yielded a 2.5 billion year old date.<br>mdg, quartzite; white to tan orthoquartzite.<br>mdp, meta-diorite; dense, black to gray meta-diorite porphyry flows and dikes. White plagioclase porphyroblasts aligned in trackytic feature.<br>mda, meta-andesite; alluvial and nonalluvial meta-andesite.<br>mds, orthoamphibolite; black fine-, medium- and coarse-grained hornblende amphibolites. Metabasic flows and metagabbro dikes and sills.<br>mdt, graphitic schist; black iron-stained, sheared schist. |
|            | GLACIAL DEPOSITS<br>Lateral and end moraine boulder till. |          | UNCONFORMITY  |               | UNCONFORMITY   |          | UNCONFORMITY   |          | GOLDMAN MEADOWS FORMATION<br>gms, pelitic schist; feldspathic quartz-mica schist; chlorite-quartz schist; hornblende-garnet-magnetite schist; quartz-mica schist; quartz-mica-andalusite schist; and chlorite-mica schist.<br>gms, iron formation; banded quartz-magnetite-amphibole iron formation. Extended under surficial deposits by magnetic surveys.<br>gms, quartzite; both orthoquartzite and tucholite quartzite. |             |  |         |  |  |   |
|            |   |          |   |               |  |          |  |          |   |             |  |         |  |  |   |

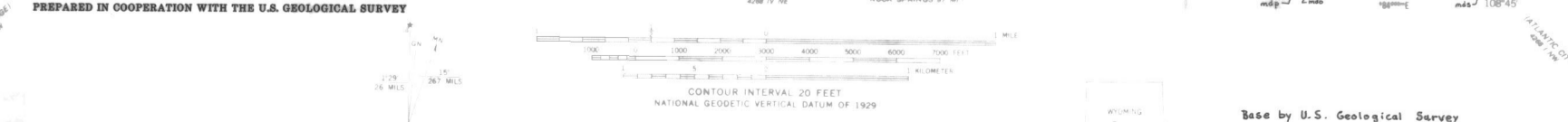
MAP SYMBOLS

|  |   |
|--|---|
| CONTACT<br>Contact dashed where approximately located and dotted where covered by surficial deposits.                                      | BEDDING TRENDS<br>30° Inclined vertical<br>Crenulated           |
| FAULTS<br>Fault: Dashed where approximately located and dotted where inferred. Letters and arrows indicate direction of relative movement. | MINE AND PROSPECT SYMBOLS<br>Shaft Prospected pit Mine tailings |
| SHOAR TENS<br>Shoar tens. Arrows indicate vertically dipping shoar tens.   | MISCELLANEOUS<br>Lake with dam site Abandoned cabin<br>Breccia  |
| FOLDS<br>Direction of plunge (top) of minor fold axis.   |   |
| FOLIATION TRENDS<br>Inclined vertical Inclined and plunge of lineation<br>Generalized trend of foliation or bedding.                       |   |

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Revised from: Bayley, R.W., 1965, Geologic map of the Louis Lake Quadrangle, Fremont County, Wyoming; U.S. Geological Survey GQ-461, scale 1:24,000.