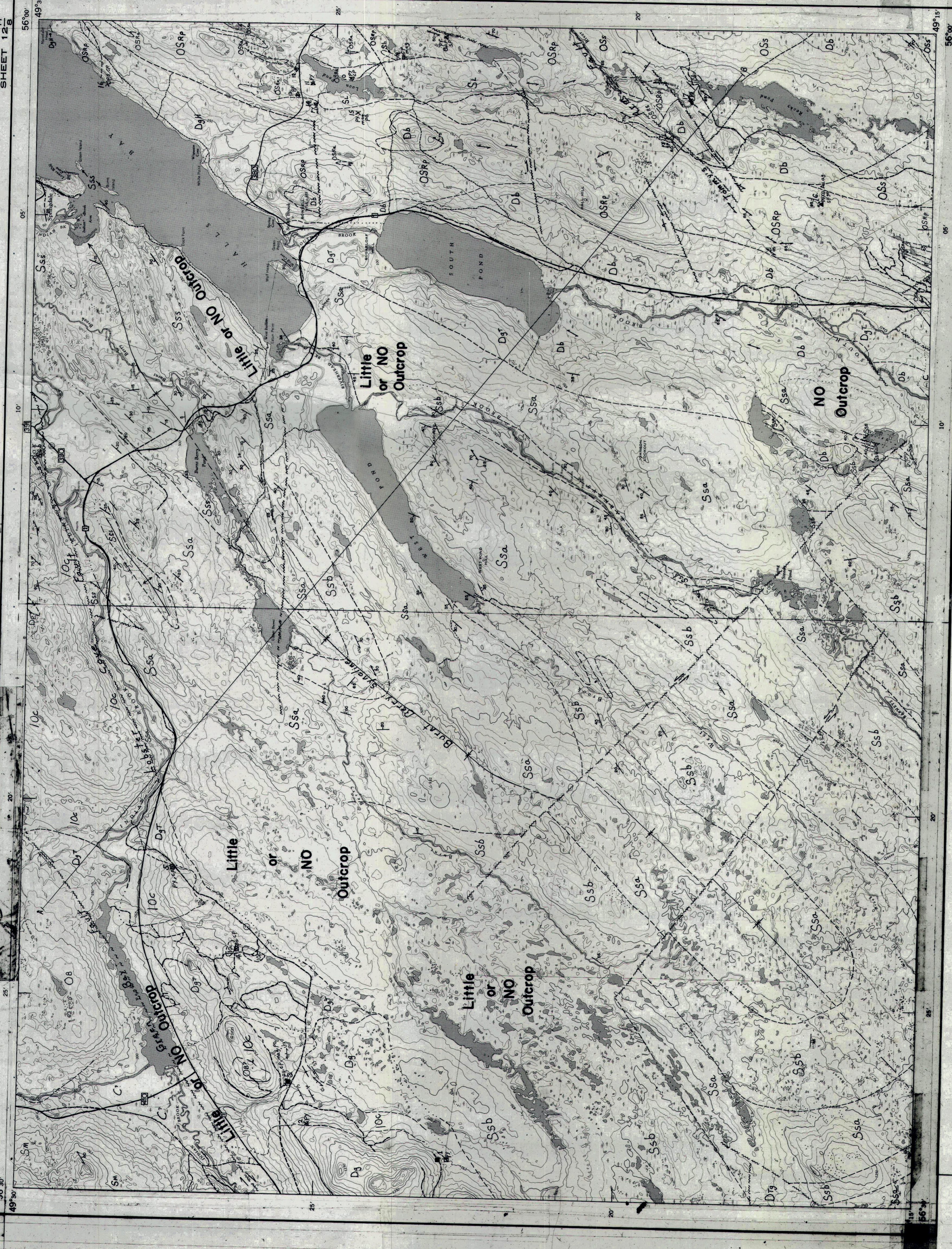


RF. OF DRAWING NO. REPORT 77-10. DETAILS Springdale Map Area (NF 979).

- LEGEND - Springdale Map Area**
- CARBONIFEROUS**
- C Reddish-brown to greyish-red conglomerate and sandstone.
- DEVONIAN OR LATER**
- Dg Pale reddish-brown to light brownish-grey, fine to medium grained granite, quartzite and quartz siltstone.
- Dp Light brown to greyish-red quartz-feldspar porphyry.
- Dtg Topasillite granite. Pale red equigranular granite, quartz monzonite and granodiorite.
- Dgt Pale red to grey equigranular quartz-rich granite and quartz monzonite, similar to topasillite granite.
- Dph Halls Bay pluton. Grey-green to greyish-pink, massive and foliated granodiorite, quartz monzonite and granite.
- Ds Light grey to light greenish grey, medium grained diorite, quartz diorite, granodiorite and gabbro.
- SILURIAN OR DEVONIAN**
- SPRINGDALE GROUP (Ssa, Ssb, Ssc)**
- Ssa Brownish-grey to reddish-brown conglomerate, medium to coarse sandstone, fine sandstone, siltstone and mudstone.
- Ssb Grey to red and purple, argillaceous andesite and basalt flows.
- Ssc Pale red and greyish-red rhyolite and trachyte flows, tuff and agglomerate.
- Ss Mic mac group (basaltic). Light grey to pale red, coarse to fine conglomerate and sandstones, grey to light greenish grey, medium grained gabbro and mafic hornblende monzonite granodiorite and siltite.
- SsL LOON POND PLUTON: Pink to pinkish grey, very fine to medium grained granite, hornblende monzonite granodiorite and siltite.
- SsM Medium to fine-grained gabbro and diabase sills. (Intrude Roberts Arm Group).
- UPPER OROVICAN AND SILURIAN**
- ROBERTS ARM GROUP (OSa, OSb, OSs)**
- OSa Greyish-green to grey and white rhyolite and dacite flows, agglomerates, tuffs and sills.
- OSb Reddish brown to grey bedded tuff, chert and gneynacke.
- OSp Dark greenish-grey to reddish brown and black pillowed basalt; pillow breccia and massive flows; thin lenses and beds of chert, tuff and gneynacke.
- OSs Siltstone and sandstone. Medium grey graded gneynacke, tuffaceous gneynacke and tuff (possibly thin beds some graded Lake formation of the Roberts Arm Group).
- OROVICAN**
- OB BURLINGTON GRANODIORITE: Greenish-grey to grey, medium-grained, massive to foliated granodiorite.
- LOWER OROVICAN**
- OC CATCHERS FOND GROUP (undivided): Light grey to greenish-grey and pale yellowish-brown siltstone; thin beds of fine conglomerate and agglomerate; thin beds of limestone and limestone conglomerate.



- Mineral Occurrences and Prospects**
1. Cecil's Showing: Pyritic gossan zone near contact between volcanics and granite.
 2. West Silverbrook: Massive pyrite in basalt.
 3. Indian Pond Area: Large boulders containing massive to disseminated pyrite, magnetite, chalcocopyrite and pyrrhotite.
 4. White Horn Brook: Pyrite and chalcocopyrite near contact with granite and basalt.
 5. Indian Pond: Pyrite and chalcocopyrite in metamorphosed basalt and sericitic schist.
 6. Hedges: Stringer and disseminated sulphides in thin acidic volcanic unit within mafic pillow lavas.
 7. Camp 11: Pyrite and sphalerite in sheared chloritic basalt and tuff.
 8. Knife Pond: Disseminated sulphides in metabasalt.
 9. Marsh Pond: Blebs of chalcocopyrite and magnetite in a thin rhyolite unit.
 10. Loon Pond East: Pyrite and chalcocopyrite disseminations and stringers in acidic volcanics.
 - 11, 12, & 13. Loon Pond West: Heavily disseminated pyrite in acidic volcanics.
 14. Marsh Pond: Disseminated pyrite and malachite near contact between acidic volcanics and pillow basalt.
 15. Marsh Pond West: Massive and stringer pyrite, magnetite and pyrrhotite in chloritic metabasalt.
 16. Halls Bay: Heavily disseminated pyrite and chalcocopyrite in granite.
 17. Rocky Pond: Pyrite stringers and veinlets in a shear zone in metamorphosed sedimentary rocks.

- Note: The mineral symbols key and a mineral classification table is contained in the accompanying report.**
- Geological boundary (defined, approximate and assumed)**
- Bedding, tops known (horizontal, inclined, vertical, overturned)**
- Bedding, tops unknown (inclined, vertical)**
- Dike trend (inclined, vertical)**
- Schistosity, unisectivity, cleavage, foliation (horizontal, inclined, vertical)**
- Fault (defined, approximate, assumed)**
- Anticline (upright, overturned)**
- Syncline (upright, overturned)**
- Fossil locality**
- Mineral occurrence**
- Mineral prospect, test pit or trench**
- Shaft or quarry (exploitation, abandoned production, production, producing)**
- Aft or tunnel**

References

Dean, W.F., 1970. Lower Orovicanic rhyolites from the vicinity of South Catcheser Pond, northeastern Newfoundland. G.S.C. Paper 70-44.

Kallioveski, J., 1975. Springdale, Newfoundland; Geol. Surv. Canada, Paper 53-5.

McLellan, H.J., 1947. Geology and mineral deposits of the Little Bay area, Newfoundland Geol. Surv. Bull. 22.

McGonigal, H.H., 1970. Geology of the Springdale Group west of the Halls Bay pluton, Northwest Central Newfoundland. B.Sc. Thesis, Memorial University of Newfoundland.

Neale, E.H.W., Nash, W.A., and Innes, G.H., 1960. Kings Point Map Area. G.S.C. Map 35-1960.

Neale, E.H.W. and Nash, W.A., 1965. Spring Lake (East Half) Newfoundland. Geol. Surv. Can., Paper 62-21.

Neale, E.H.W. and Kennedy, M.J., 1967. Guide book and road log, Burlington Peninsula, Newfoundland. 10 p.

Geology by Maclean (1947), Kallioveski (1953), Neale and Nash (1963), Neale and Kennedy (1967), Dean (1970) and McGonigal (1970).

Compilation and interpretation by P.L. Dean and D.F. Strong, Memorial University of Newfoundland, 1975.

Explanatory Notes - Springdale Map Area

The oldest rocks in the map area are the undivided volcanic and sedimentary rocks of the Roberts Arm Group (OSa, OSb, OSs) which are overlain by the Devonian or later rocks of the Springdale Group (Ssa, Ssb, Ssc) and the Silurian or Devonian rocks of the Halls Bay pluton (Dph). The Roberts Arm Group (OSa, OSb, OSs) is a mafic to intermediate sequence of dominantly submarine volcanics. These volcanics are essentially unmetamorphosed and are overlain by the Devonian or later rocks of the Springdale Group (Ssa, Ssb, Ssc) which are metamorphosed. The Springdale Group (Ssa, Ssb, Ssc) consists of thick units of subvolcanic to volcanic rocks, including basalt, andesite, rhyolite, dacite, and tuff, which are overlain by the Silurian or Devonian rocks of the Halls Bay pluton (Dph). The Halls Bay pluton (Dph) is a large, massive, foliated granodiorite which intrudes the Springdale Group (Ssa, Ssb, Ssc) and the Roberts Arm Group (OSa, OSb, OSs). The Halls Bay pluton (Dph) is a large, massive, foliated granodiorite which intrudes the Springdale Group (Ssa, Ssb, Ssc) and the Roberts Arm Group (OSa, OSb, OSs). The Halls Bay pluton (Dph) is a large, massive, foliated granodiorite which intrudes the Springdale Group (Ssa, Ssb, Ssc) and the Roberts Arm Group (OSa, OSb, OSs).

MINERAL DEVELOPMENT DIVISION
DEPARTMENT OF MINES AND ENERGY
GOVERNMENT OF NEWFOUNDLAND AND LABRADOR
Geological Survey of Canada open file no. 379
was used as the base map.