Appendix IV: Photo log, in Krass, V.A., and Amoco Oil Co., 1987 Alaska fieldwork, De Long Mountains, Brooks Range, Alaska

Krass, V.A., and Amoco Oil Co.

GMC DATA REPORT 460C

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2019
State of Alaska
Department of Natural Resources
Division of Geological & Geophysical Surveys
GEOLOGIC MATERIALS CENTER

APPENDIX IV

1987 ALASKA FIELD WORK
DE LONG MOUNTAINS, WESTERN BROOKS RANGE

PHOTO LOG

1. Aerial view of native town of Kotzebue, Alaska

2 and 3. Cultural sites of Kotzebue, Alaska


UNIVERSITY OF ALASKA
CHUKCHI
COMMUNITY
COLLEGE
RURAL EDUCATION & EXTENSION


Arctic Hare Beauty Shop
11 am - 8 pm
442-3635

4. Typical 1987 field weather - fog/low ceiling

5. Close-up view of GCO Lik Mining Camp

6. GCO Lik Mining Camp and surround countryside

7. Common wildlife: Bear Prints

8. Common Wildlife: Caribou


15 cm

9. Common wildlife: Alaska State Bird (Mosquitos)

10. Amoco Field Crew: Dave Muller, Don May (pilot), Ned Sterne, Valerie Krass, Margot Timble

11. Ridge of Kogruk Limestone (Lisburne Group) adjacent to Lik mining camp.

12. Cliff of grey and brown weathering Lisburne Limestone intruded by resistant, brown weathering diabase dikes and sill (top and middle of ridge). Stop 87-28-3,4.

13 and 14. Views of Nuka Ridge and Singayoak Creek.
Stop 87-28-2. Type section Nuka Formation.

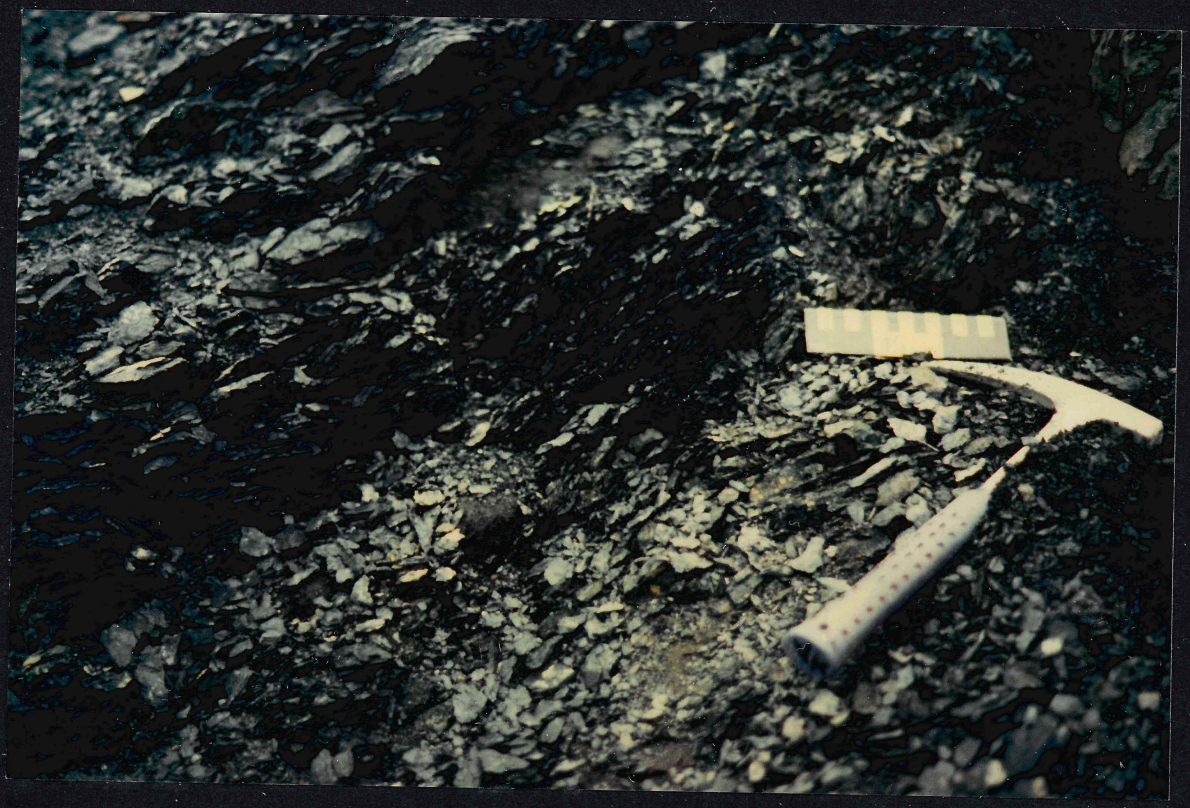
15. Nuka Ridge, Singayoak Creek Section.

16. Outcrop sample from Singayoak Creek, Nuka Ridge. Mississippian-Pennsylvanian Nuka Formation coarse arkosic conglomerate.

17. Stop 87-29-14. Exposure of Nuka Formation near coast. SW/4 35-30N-26W. Medium- to coarse-grained arkosic sandstone and conglomerate. Weathers here as low relief ridge with rubble, lichen-covered outcrop.

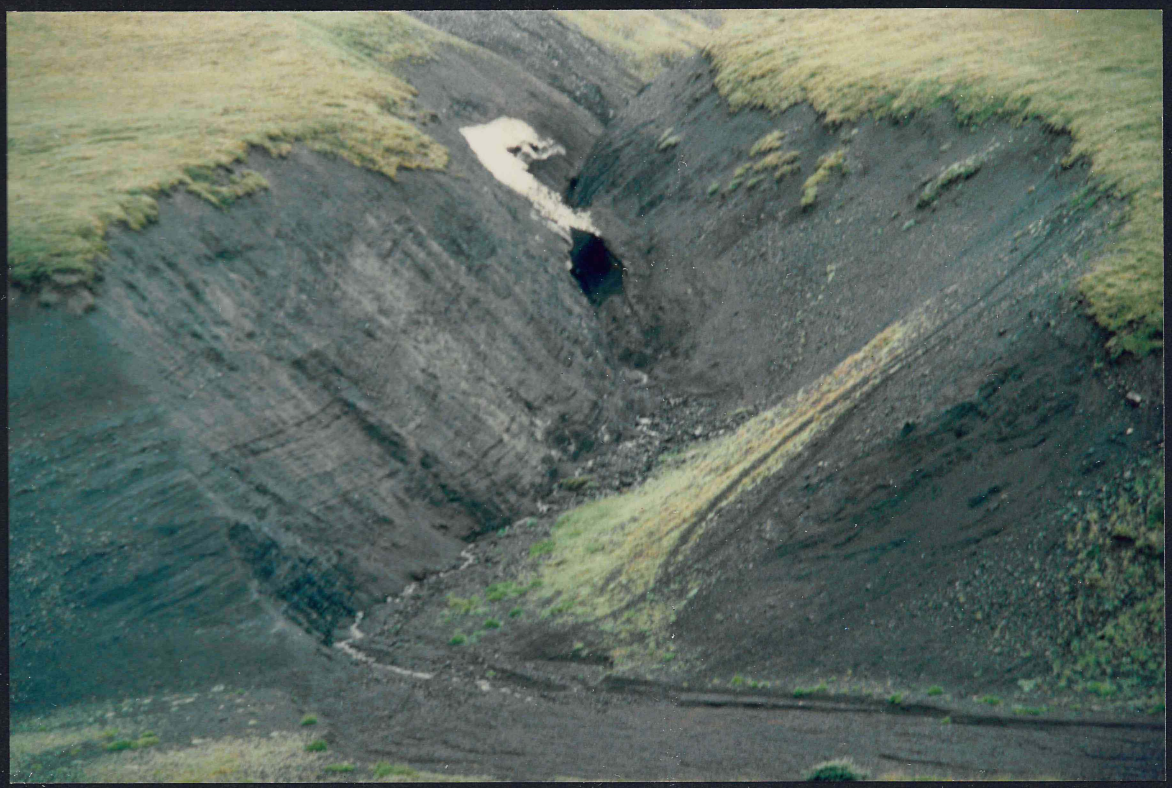
18. Stop 87-23-5. Miss-Penn Kuna Shale. Close-up view of black, soft, fissle, non-siliceous shale.

19. Stop 87-23-5. Miss-Penn Kuna Shale. Formation exposed in ravine cut.



20. Stop 87-23-8. Permian-Jurassic Etivluk Group. Thick section of siliceous shale and chert with oxidized softer dark shales. Section structurally disrupted.

21. Stop 87-27-5. Permo-Triassic Siksikpuk Formation. Thick section of purple-grey fissle shale with minor chert.



22. Stop 87-23-4. Triassic-Jurassic Otuk Formation. Fissle, oxidized, slightly siliceous black shale.

23. Stop 87-29-2. Triassic-Jurassic Otuk (?).
Section of interbedded shale, siliceous shale, chert and limestone.

24. Stop 87-28-6. Triassic-Jurassic Otuk Formation.
East fork of Spike Creek. Black, blocky shale.

25. Tingmerkpuk Creek. View of Permian-Jurassic Etivluk Group varigated shale, chert and limestone.

26. Close-up view. Sampling of soft, black, fissle Otuk shale.

27. Stop 87-29-10. View of section exposed along south side of Spiney Ridge. Permian-Jurassic Etivluk Group (lower varigated section) and Cretaceous Okpikruak Formation (upper black and white banded section).

28. Stop 87-29-10. Another view of south side of Spiney Ridge with exposure of Etivluk and Okpikruak sections.

29. Stop 87-24-1. Ipewik type section at Horseshoe Bend, Ipewik River. Late Jurassic to early Cretaceous (Valanginian), structurally disrupted, soft, black shale with float of medium-grained sandstone and iron concretions.

30. Stop 87-24-4. Ipewik Shale exposed in upper drainage of Thetis Creek. Soft, black shale.


ERA

31. Stop 87-24-2. Ipewik Shale, side stream cut along type section at Horseshoe Bend, Ipewik River.

32. Stop 87-22-1. Dark ridge of early Cretaceous Tingmerkpuk Sandstone with lighter-colored Permian-Jurassic Etivluk Group outcrop in foreground. Lichen-covered Tingmerkpuk sandstone outcrops in frost-heaved, rubble-covered slopes with no good exposures.