

Public-data File 86-40

DIVISION OF GEOLOGICAL AND GEOPHYSICAL SURVEYS
MONTHLY REPORT FOR JANUARY 1977

By

Staff

Alaska Division of
Geological and Geophysical Surveys

June 1986

THIS REPORT HAS NOT BEEN REVIEWED FOR
TECHNICAL CONTENT (EXCEPT AS NOTED IN
TEXT) OR FOR CONFORMITY TO THE
EDITORIAL STANDARDS OF DGGs.

794 University Avenue, Basement
Fairbanks, Alaska 99709

RESOURCE INVESTIGATION

MEMORANDUM

State of Alaska

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYSTO: Ross G. Schaff
State Geologist

DATE: February 3, 1977

FILE NO:

TELEPHONE NO:

FROM: Jim Riehle
Geological Engineer *JRR*SUBJECT: Monthly Report
Dec. 25 - Jan. 25, 1977A. Consultations

<u>1. State Agencies</u>	<u>Date</u>	<u>Topic</u>	<u>Results</u>
1. ADL	1/14/77	Seldovia to Kachemak Bay Study	Desired products will be defined soon
2. DNR Planners	1/6	Coastal Zone	Report given us on status of funds
<u>2. Federal Agencies</u>			
1. USGS (Menlo Park)	1/25	Cooperative field effort this summer in NEGOA-Prince William Sound	DGGS can put 1-2 persons on USGS research vessel, April-June
2. Corps. Eng.	1/24	Proposed damsite near Eyak Lake (Cordova); geologic evaluation	Suggestions make by Corps, regarding possible drilling program
<u>3. Other</u>			
1. Donna Agosti	1/7	Icy Bay	Made available to her the sources of particular data on Icy Bay geology
2. Miles Hayes	1/14 (?)	His coastal research program in Alaska this summer	He sent us 2 reprints. He may be doing beach studies in Pr. Wm. Sound this summer.

B. Conferences

1. Jan. 4	Anchorage	1000 monthly meeting of Alaska Groundwater Assoc
-----------	-----------	--

C. Research

1. Coastal strip map from Yakutat to Kodiak Island (1:250,000) has had the pertinent data plotted on it, regarding: offshore prospecting, onshore mineral claims, historic mineral production, major or recently active faults, OCS oceanographic and marine geology data (BLM-HOAA), and clusters of seismic events recorded by seismometers in remote coastal areas in past 1-2 years.
2. Air photo interpretation (1:63,360) completed from Homer to Port Graham-Seldovia; some photos had been outstanding in December when majority of interpretation was completed.
3. Through the appropriate texts and by consultation with ADL and Planners (desired products) and USGS (available equipment), a program of data collection for the Coastal Zone has been outlined (preliminary fashion). Data to be collected in appropriate areas may include: beach profiles, field determination of grain size distributions, shallow bottom samples, beach samples for heavy metals analysis, relative estimates of near offshore currents, etc.
4. Available maps and literature on Togiak area collected, for impending resource evaluation for ADL.

D. Status of Reports

1. Yakutat site evaluation temporarily "tabled", until final definition of regional coastal program in NEGOA.
2. Geologic Hazards legislation awaits second-round meeting with Attorney General's office (Peter Frochlich); our (DGGG) objectives are now relatively well-defined.
3. Togiak land tract resource evaluation for ADL awaits consultation with Joe Hoare (USGS AHRAP project geologists).

MEMORANDUM

State of Alaska
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYS

TO: Ross G. Schaff
State Geologist

DATE: February 2, 1977

FILE NO:

TELEPHONE NO:

FROM: William M. Lyle
Petroleum Geologist

SUBJECT: Monthly Report - Jan. 1977

W. M. Lyle

A. Consultations

I. Federal

<u>Agency</u>	<u>Date</u>	<u>Topic</u>	<u>Results</u>
1. USGS	1/3/77	Lectures	Made arrangements
2. USGS	1/3	Report	Called Menlo Park
3. USGS	1/5	Report Review	Agreed to release with or without final ok by McMullen, Balm, Palmer. <u>Removed</u> them as authors.
4. Irv Palmer	1/17	Open file report	
5. GII Springer	1/25	OCS-BLM Anchorage	Porosity Open file #104

II. State

1. Plann. & Res. Section	1/7	Chaix Hills	Discuss the geology
2. Nat Conner, Regional Aff., Juneau	1/7	Icy Bay Reg.	Personnel and Chaix Hills hits Ref. Patrick L. Dobby
3. USGS Conserv.	1/11	Open File Rpt. #104	Remove them as authors
4. USGS Conserv.	1/24	Kodiak Report	Format & release date

III. Other

1. Don Lind	1/6	Mining Chinitna Area	Use Cobbs maps, lease status, dowsing with gold bobs'
2. Sally Jones	1/6	Samavar Hills	Oil potential on-shore

3.	Tom Wilson Marathon Oil	1/11	Open file #104	When will it be released?
4.	Chuck Harrison Texas Eastern	1/12	Open file #104	When will it be released?
5.	Bill Robertson	1/13	Yukon Basin	Request release
6.	Chuck Harrison	1/17	Open File	
7.	Dr. Geoffery Bayliss	1/17	AGS Meeting	
8.	John Villisvik	1/17	AGS Meeting	
9.	Mike Martin Cite service, Denver	1/21	Open File #104	Questions on basin maturity
10.	Bob Kerryville Houston	1/24	Open File #104	Questions on Report
11.	Fred Korsten	1/24	Open File #104	Questions on basin maturity
12.	Dick Castle	1/25	Denver, Colo.	Questions on basin maturity
13.	Joe Dygas	1/25	OCS-BLM Anchorage	Jurassic open file report

B. Conferences, symposia, etc. attended

<u>Date</u>	<u>Location</u>	<u>Topic</u>	<u>Comments</u>
1. Jan-Feb	Anchorage	Recent & Ancient Deltas	Home study

C. Research

1. Accomplishments

1. 1977 Alaska Peninsula Projects - timing; planning; and logistics.

D. Status of Reports & Publications

<u>Report (title)</u>	<u>Transmitted to:</u>	<u>Date</u>	<u>Comments</u>
1. AOF #104	Public	Jan 18	-sold out
2. Kodiak- Sitanak- Chirikof Report			Needs Petrography. Plan to release May 15th.

E. Miscellaneous

1. Dan Leon

Chinitna Area

Mineral potential, Land status,
Claims, Cobbs Maps.

MEMORANDUM

State of Alaska

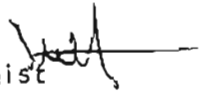
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYS

DATE: February 1, 1977

TO: Ross G. Schaff
State Geologist

FILE NO:

TELEPHONE NO:

FROM: M.W. Henning 
Mining Geologist

SUBJECT: Monthly Report-January, 1977

A. Consultations

1. Jim Barker, U.S. Bureau of Mines, 1/4/77, talked with Jim about the Circle project and next summers field plans.
2. Russ Cahill, Div. of Parks, 1/24/77, discussed the Hatcher Pass recreation proposal with him.
3. Bill Long, Mat-su Borough, 1/24/77, asked Bill to comment on Div. of Parks proposed Hatcher Pass recreation area and return comments to me.
4. D'Arcey Bannister, U.S. Bureau of Mines, 1/27/77, discussed D-2 related mineral appraisal programs and State field programs. USBM's funding has been cut back considerably, probably no summer field work.

B. Meetings, etc.

Attended the City of Houston council meeting on 1/27/77, and was asked to serve as a member of their planning & zoning committee.

C. Miscellenous

1. Talkeetna Mts. geologic map is in drafting with no firm completion date.
2. Circle report - waiting for tin-tungsten analysis from Henry.
3. Base maps for the Wolverine project have been put together.

MEMORANDUM

State of Alaska

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYS

DATE: January 31, 1977

TO: Ross G. Schaff
State Geologist

FILE NO:

TELEPHONE NO:

FROM: Steve Hackett *SH/plc*
Geophysicist

SUBJECT: Monthly Report January 1977

A. Consultations

<u>1.</u>	<u>State</u>	<u>Date</u>	<u>Topic</u>	<u>Results</u>
1.	DGGS (Gilbert)	1/5/77	Ruby Ridge Geologic Rpt.	-finalized plates & text
2.	DGGS (Larson)	1/13	Aeromagnetic Map index of N. Alaska	-discussed requirements for open filing and assigned AOF number
3.	DGG (Baxandall)	1/20	Computer Processing of geophysical data	-received assistance in reducing gravity data
4.	DGGS (Larson)	1/26	Geologic Report 49	-discussed finalized text and publication release date
5.	DGGS (Pessel)	1/26	Southwestern Brooks Range project	-discussed possible work schedule requirements and maps to be completed
6.	DGGS (Schaff)	1/27	Alaskan Gravity Base project	-defined needs and recommended approach to generate an up- dated publication
7.	DGGS (Schaff)	1/31	Southwestern Brooks Range	-discussed possible data & publications that could be generated by past and current DGGS projects

II. Federal

1.	USGS (Grybeck)	1/5/77	Brooks Range Geophysical	-defined problems & discussed aeromagnetic compilation
2.	USGS (Tailleur)	1/17	Brooks Range data	-sent preliminary geophysical interpretation and data
3.	USGS (Grybeck)	1/20	N. Alaska- Brooks Range Aeromag Maps	-documented previous discussions & recommendations for compil- ation

- | | | | | |
|----|-------------|------|-------------------------|---|
| 4. | USGS (Cady) | 1/28 | S. Brooks Range project | -discussed tentative project deadline dates and report format |
|----|-------------|------|-------------------------|---|

III. Contracts

- | | | | | |
|----|--------------------------|---------|-------------------------|--|
| 1. | Aeromagnetic Contractors | 1/18-20 | Future regional surveys | -outlined data needs for DGGG study areas in Northern Alaska |
|----|--------------------------|---------|-------------------------|--|

B. Research

1. Brooks Range Geophysical
 - finalizing "Aeromagnetic Index Map of Northern Alaska". Plans include openfiling this map as soon as it is reviewed by DGGG, USGS, and FRDA personnel.
 - sent provisional aeromagnetic interpretation maps to Tailleux; waiting on processing of Ambler R. gravity data by D. Barnes, USGS, Menlo Park.
 - need to reduce and process other gravity data and rock samples acquired during 1976 field season.
 - working on aeromagnetic compilation map of southwestern Brooks Range.
2. Talkeetna-Kashwitna-Susitna geophysical
 - converting gravity reduction computer program to IGBN-71.
 - re-calculating simple Bouguer gravity values with new datum before openfiling geophysical maps.
3. N. Flank-Alaska Range geophysical
 - setting up reduction of 1976 field data.
4. L. Cook Inlet-Tuxedni Bay geophysical
 - need to reduce 1976 field data.
5. Alaskan Peninsula geophysical
 - need to review geology and plan for 1977 field season.
6. Geophysical computer library
 - Henry Cole is finishing up his efforts in adopting geophysical model programs of U of A computer system.
 - contacted Clinton-Steale, U.S.G.S. Menlo Park, about acquiring cards for "linear-lineation" study program.
 - John Baxandall is currently up-dating the E202 (gravity reduction program) to include the IGBN-71 datum.

C. Status of Reports and Publications

1. Geologic Report 49 - finalized text and drafting is being processed---publication should be released in the near future.
2. Provisional interpretation of geophysical data in Southwestern Brooks Range -discussion with Gar Pessel about combining efforts towards a compilation package: aeromagnetic, gravity, geologic and LANDSTAT maps. These would be followed by a regional synthesis and interpretation maps and reports.
3. Ruby Ridge Geologic report - finalized draft and plates are being reviewed.
4. Talkeetna-Kashwitna geophysical interpretation - scheduled to openfile interp. maps as soon as gravity data is up-dated to IGSN-71 datum and U.S.G.S. info - comments are incorporated into report.

D. Miscellaneous

1. Moved office location from College to Anchorage. Officially working out of 3001 Porcupine Drive as of January 15, 1977.

MEMORANDUM

State of Alaska

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYS

DATE: January 31, 1977

TO: Ross G. Schaff
State Geologist

FILE NO:

TELEPHONE NO:

FROM: G.H. Pessel *GHP/pe*
Petroleum Geologist

SUBJECT: Monthly report January 1977

Conferences

Planning and Research Group R. Klein	Jan. 6	Discussion of coastal zone program and funding; question about Coleen Sheenjek project needs.
U.S. Bureau of Mines Jake Janson	Jan. 4 Jan. 24	Review of Brooks Range report on D-2 mineral resources by WGM
BP Minerals-Alaska Chuck Herbert	Jan. 5 Jan. 24	Obtaining mineral resource information in Wiseman and Survey Pass areas of Brooks Range for use in project and report in that area for Planning.

Research

1. Spent a few days working on Coleen-Sheenjek report. Final report will probably be out in April to obtain geochem data from U.S. Bureau of Mines.

Publications

1. Survey Pass and Ambler River quadrangle maps are not officially released through the USGS.
2. North Slope report still in the mill; indefinite release.

Miscellaneous

1. Gathering base maps, ordering photos, obtaining logistical information for Wiseman area project in the summer.

MEMORANDUM

State of Alaska

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYS

TO: Ross G. Schaff
State Geologist

DATE: January 26, 1977

FILE NO:

TELEPHONE NO:

FROM: Gilbert R. Eakins *GRE*
Chief Mining Geologist

SUBJECT: Monthly report
12-27 to 1-25-77

A. Consultations.

1. Dave Lowe, Anchorage, called for advice on scintillometers on January 3, 1977.
2. Negotiated a contract with ERDA for DGGs use of ERDA lab equipment and scintillometers.

B. Conferences.

1. Wyatt Gilbert, Tom Bundtzen, and I met with Biff Reed and Hank Berg with the USGS in Anchorage January 19, 1977 to discuss our respective plans for mapping in the Lake Clark quadrangle. USGS will AMRAP Lake Clark this summer; we agreed to take up to 200 stream-sediment and stream concentrate samples for the USGS in our areas in return for their analyses and other geological information.

C. Research.

1. Collaborated with Bundtzen and Conwell on a response to the Commissioner's request for comments on the proposed BLM regulations.
2. Submitted a supplement to Geologic Report 44 to Frank Larson for publication.
3. Maps for ERDA report were given to McCauleys for final printing.
4. Began research on geology and logistical problems of the Lake Clark quadrangle.

D. Status of reports.

1. ERDA report in Frank Larson's hands for final typing and publication.
2. Supplement to Geologic Report 44 as above.

E. Miscellaneous.

1. Discussed DGGs radio equipment condition and needs with Jeff Kline. We will need some replacements which may be fairly expensive.
2. Trying to get an additional telephone and one extension for the Resources Bldg., and trying to get an estimate on cost of moving one office wall.
3. Took one week vacation.

MEMORANDUM

State of Alaska

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYS

TO: Ross G. Schaff
State Geologist

DATE: January 26, 1977

FILE NO:

TELEPHONE NO:

FROM: Richard D. Reger *DDR*
Geologist

SUBJECT: Monthly report for
December 1976 thru January 26, 1977

- A. I was involved in the following consultations during the period December 16, 1976 through January 24, 1977:
1. (1/19) - Discussed USFS mapping of Yukon Flats and Porcupine River drainage with Tony Gasbarro (UAF).
 2. (1/21) - Discussed surficial geology of Mt. Wrangell with Roman Motyka (UAF).
- B. I conducted research on the following projects during the period December 16, 1976 through January 24, 1977:
1. Preparing geologic materials map and geologic report of Talkeetna-Kashwitna area (12/16 through 12/17).
 2. Background reading for geologic hazards in Alaska (1/18 through 1/24).
 3. Reordered photography for mapping surficial geology of Chugach State Park (1/20).
- C. Status of reports and publications:
1. Completed environmental assessment report of Talkeetna-Kashwitna area for ADL Planning and Research Section.
 2. Beginning photointerpretation of southern Kenai Peninsula lowlands for ADL Planning and Research Section. Jeff Kline nearly finished with slope maps of the area.
 3. Received input from T.L. Péwé for Big Delta A-4 open-file map. Plan one or two weeks field program in August to finish up field observations.
 4. Waiting letter of authorization from Bert Schultz of the Nebraska Academy of Sciences before reprinting INQUA guidebook. Have received new plates from T.L. Péwé.
- D. Miscellaneous.
1. On vacation from 12/17/76 through 1/11/77.

MEMORANDUM

State of Alaska

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYSTO: Ross Schaff
State Geologist

DATE: January 25, 1977

FILE NO:

TELEPHONE NO:

FROM: Tom Bundtzen
Geologist

TKB

SUBJECT: Progress Report for
January 1977A. Major Work Accomplishments

- 1) Prepared for Ross Schaff an analysis of new mining regulations 43 CFR 3830 and 43 CFR 3800-3809 concerning surface management and recording of mining claims under the BLM Organic Act. Gil Eakins, Cle Conwell, and I sat down and discussed these regulations in detail.
- 2) After having been appointed to the Tongass Land Management Plan by Commissioner Martin, I've undergone some preliminary research into some areas of economic interest in southeast Alaska.
- 3) Continued with research on Central Alaska Range Project with Wyatt Gilbert. I examined 50 thin sections as well as prepared several polished ore sections made from prospects in the Bomifield District. Wyatt and I sent a number of rocks for "whole oxide" analyses to H. Potworowski.
- 4) Began preliminary research into next years field investigations in southwestern and central Alaska.
- 5) Have contacted various laboratories around the U.S. concerning the commercial availability of sulfur, oxygen, and lead isotope analyses.

B. ConsultationsFederal

- 1) Met with Bruce Reed and Hank Berg on proposed southern Alaska Range project.
- 2) Consulted with Bob Rye, USGS Denver Branch, about availability of isotope work.

State

- 1) Consulted with Don Turner (in California) about ongoing age dating work including Herreid's report and Richardson District age samples (part of Delta study area).
- 2) Wrote to Bob LeResche concerning my involvement in Tongass Land Use Plan.

Private

- 1) Informed Jim Thompson Ford about condition of Courier lease.
- 2) Corresponded with Chuck Hawley about mineral deposits in the Alaska Range.

- 3) Corresponded with Dr. M.L. Jensen, University of Utah, about sulfur isotope work.
- 4) Contacted Geochron Laboratories about availability of oxygen isotope analyses.
- 5) Discussed with Rod Asher, geologist for NL Industries, mineral deposits on Prince of Wales Island.
- 6) Corresponded with Teledyne Isotopes concerning lead ages.

MEMORANDUM

State of Alaska

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYSTO: Ross G. Schaff
State Geologist

DATE: January 26, 1977

FILE NO:

TELEPHONE NO:

FROM: Wyatt G. Gilbert *WGG*
Mining GeologistSUBJECT: Monthly report
12/27 thru 1/24/77A. Consultations

I. State - none.

II. Federal

<u>Agency</u>	<u>Date</u>	<u>Topic</u>	<u>Results</u>
USGS	1/19/77	1977 field program.	Coordination to prevent duplication and overlap.

III. Other

U. of Alaska Geophysical Institute	1/21/77	K/Ar determina- tions.	Volcanic rocks dated agree with my pre- dictions.
--	---------	---------------------------	---

B. Conferences, symposium, etc. attended - none.C. Research

I. Accomplishments

1. Began systematic study of thin sections from D-1 quadrangle.
2. Began literature survey of geology of southwestern Alaska.
3. Began survey of lower Paleozoic-Precambrian geology of Yukon Territory for correlation with Alaska Range rocks.

D. Status of reports and publication

<u>Report (title)</u>	<u>Transmitted to</u>	<u>Date</u>	<u>Comments</u>
1. Met. Rocks of Tok-Tek area #50	DGGS editor	1/18/77	Final review of paper submitted 1 year ago.
2. Evidence of Early Cenozoic orogeny in Central Alaska Range	Completed and published	1/1/77	First "Short Notes on Alaskan Geology" re- port.

Ross G. Schaff

- 2 -

January 26, 1977

<u>Report (title)</u>	<u>Transmitted to</u>	<u>Date</u>	<u>Comments</u>
3. Regional Setting South Brooks Range Copper Deposits	Geol. Assoc. Cqn.	12/28/76	Abstract for talk, with M.A. Wiltse.

E. Miscellaneous - none

MEMORANDUM

State of Alaska

TO: Ross G. Schaff
State Geologist

DATE: January 27, 1977

FILE NO:

TELEPHONE NO:

FROM: Don L. McGee
Petroleum Geologist

SUBJECT: Monthly Report: Report Period
12/24/76 to 1/27/77

A. Consultations

1. State Agencies

1. Met with Beverly Cofrancesco (Planning) on January 17, 1977 to discuss the probabilities of coal development in Alaska during the next ten years.

11. Private industry and consultants

1. Met with Gary Player on January 19, 1977 to review and discuss the Little Tonzina River Coal Bed near Fairwell, Alaska.

B. Conferences

None

C. Research

None

D. Status of Reports and Publications

1. A report entitled Salinity Study, Cook Inlet Basin, Alaska was completed in January and is in the process of being distributed.

2. An evaluation of the coal resources, water, and oil and gas potential of the Lower Kenai Peninsula was completed. This report was submitted to the planning group. It essentially establishes priorities on township size areas.

3. A third report on the Talkeetna-Kashwitna area was distributed on January 4, 1977. This was a group report by Reger-McGee-Hackett and establishes priorities for commodities in this area.

E. Miscellaneous

I was on vacation from the 24th of December through the 3rd of January, 76 and 77 respectively.

MEMORANDUM

State of Alaska

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYS

TO:

Ross G. Schaff
State Geologist

DATE:

January 17, 1977

FILE NO:

TELEPHONE NO:

FROM: Mark Howland *MH*
Geological AssistantSUBJECT: Monthly Report for Nov. 25, 1976
to Dec. 25, 1976

A. Consultations

I. State
1. DecemberDateTopicResultARCO evaluates
injection permit
on North SlopeProvided information
on available dataII. Federal

1. U.S.G.S.

National Groundwater
Site Inventory
SystemFamiliarization of
system

2. U.S.G.S.

Monitoring of U.S.
Borax molybdenum
siteDescription of monitor-
ing system

3. U.S.G.S.

DGGGS proposed legis-
lation for water
resourcesDetermined form of
legislationIII. Other

1. Kenai Borough

12/22-76

Kenai water study
proposedAgreement on USGS study
proposal

B. Conferences, etc.

Attended public hearing on MAUS (Municipality of Anchorage Urban Study) on
December 2, 1976.

C. Research

1. Continued reading on hydrogeology of Alaska (general and specific).

E. Miscellaneous

Several discussions with USGS concerning State-wide water resource inventory
plans.

MEMORANDUM

State of Alaska
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYS

TO: Ross G. Schaff
State Geologist

DATE: February 7, 1977

FILE NO:

TELEPHONE NO:

FROM: Mark Howland *MH*
Geological Assistant

SUBJECT: Monthly Report for January 1977

A. Consultations

<u>I.</u>	<u>State Agencies</u>	<u>Date</u>	<u>Topic</u>	<u>Result</u>
1.	DEC (DF&G)	1-3-77	USGS proposed monitoring of US Borax Moly deposits	Agreement on monitoring proposal
2.	DEC	1-4-77	DGGS proposed water legislation	Agreement on content of legislation
3.	DNR (Planning & Research)	1-6-77	State-USGS Susitna River Basin Study	Memo from DGGS on water data needs for basin
4.	DNR (Planning & Research)	1-26-77	Water use permits & USGS data system	Possible tying together of State and Federal information
<u>II.</u>	<u>Federal</u>			
1.	USGS	1-7-77	Status of USGS water resource investigations in Susitna Basin	Data priorities of USGS
2.	USDA (SCS); USGS & ADNR	1-21-77	State-USDA Susitna River Basin Study	Data priorities of each agency
3.	USGS & ADNR	1-28-77	Funding for State-wide cooperative water resource studies	Requirements of each agency
4.	USGS & ADL	1-13-77	Kenai Public Hearing	Subject of talks by each agency for hearing
<u>III.</u>	<u>Other</u>			
1.	Kenai Borough	1-17-77	USGS Kenai Proposals	Agreement of content proposals. Discussed source of funds.

B. Conferences

Presented basic data at Kenai Public Hearing on the issuance of Collier Carbon and Chemical Corporation water use permits.

C. Research

Continued reading on Hydrogeology of Alaska (general and specific)

D. Status of Reports and Publications

None

E. Miscellaneous

1. Started working with USGS system of computerizing basic groundwater data 2 days/week.
2. Continued discussions with USGS concerning State-wide water resource inventory plans.

PUBLICATIONS

MEMORANDUM

State of Alaska

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYSTO: Ross G. Schaff
State Geologist

DATE: January 26, 1977

FILE NO:

TELEPHONE NO:

FROM: Frank Larson *FL*
Publications SpecialistSUBJECT: Monthly report
12/27 through 1/26/77

Progress for the month of January 1977 included the following:

A. Editorial

- Edited input from various divisions for DNR annual report.
- Briefly coordinated publication of AOF-104 (Lyle) and Geologic Report 54 (McGee).
- Edited text of Geologic Report 50, "Toklat-Teklanika Rivers" (Gilbert).
- Completed editing of ERDA report (Eakins).
- Stripped in figures on ERDA report.

B. Typing

- Typed and made final corrections to ERDA report.
- Started Geologic Report 49, "Beluga Basin" (Hackett) on Composer.
- Typed miscellaneous legends on Composer.
- Typed numerous memos, letters, and rough drafts.
- Started Geologic Report 50 (Gilbert) on Composer.
- Two days annual leave.

C. Cartography

- Spliced mylar quadrangle maps for Reger, Kline, and Bundtzen.
- Finished drafting and proofing of ERDA figures and plates.
- Corrected omission (U/D) in figure in Geologic Report 51, "Short Notes."
- Completed plate for Geologic Report 50.
- Set up quadrangle-map file.
- Ordered supplies.
- Began plate for Geologic Report 46, "Eureka Creek area" (Stout).
- Miscellaneous errands.

DIVISION OF GEOLOGICAL AND GEOPHYSICAL SURVEYS

Monthly Work Report

Month of January 1977

	Fairbanks	* Anchorage	Juneau	Ketchikan	Total
1. Visitors	19		8	22	49
2. Annual reports	13		1		14
3. Miscellaneous papers	8				8
4. Miscellaneous publications	34		6	3	43
5. Requests for information received by mail	72		33	4	109
6. Requests for information received by phone	6		11	23	40
7. Rock samples					0
8. Bibliographies	1				1
9. Geologic & Geochem reports	137		2		139
10. Information circulars	461		47	4	512
11. Laboratory notes & reports	8				8
12. Aeromag maps					0
13. Special reports	164		6		170
14. Open file listing					0
15. Letters	2				2
16. Monthly Mines Bulletin	8			15	23
17. Xeroxing (pgs.)			265	24	289
18. AOF's	2				2
19.					
20.					

*No figures for the Anchorage office were received.

MINERAL LABORATORY

MEMORANDUM


State of Alaska

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYSTO: Ross Schaff
State Geologist

DATE: January 26, 1977

FILE NO:

TELEPHONE NO:

FROM: 
Henry Potworowski
Minerals Lab SupervisorSUBJECT: Progress Report for
January 1977

1. The Atomic Absorption IM-6D module is still in Sunnyvale, California where it is being repaired.
2. The "Swirlaway Scrubber" for the fume hood has finally been delivered to us and is ready for installation. Work on it has to wait until spring break-up because the roof has to be opened up to put it in place and this cannot be done as long as there is snow on it.
3. Nam's new office at the Resources Building has been completed. It is completely partitioned off from the rest of the lab and is entirely to her satisfaction. As soon as the recirculating water chiller will be installed, the X-ray lab will be in a position to move.
4. I have been contacted by the Department of Highways, road material lab's supervisor, Chuck Lloyd, who asked me whether we would be in a position to analyze approximately 40-50 cement samples and 10 steel samples per year, as their lab located in the Duckering Building may be phased out. A perfunctory cost analysis revealed that each cement determination requires approximately 20-25 man/hrs. which is equivalent to about \$250-\$300 a sample. Steel analysis would cost in the vicinity of \$50-\$60 a sample. Since the road material's lab charges their customers for this work, we should get adequate remuneration from them, conceivably by being funded for a lab assistant to the extent of approximately \$15,000/year. An additional possibility would be the take-over by us of their equipment and lab space if they would vacate. Since Chuck Lloyd, the road material lab's supervisor, is presently outside until February 7, any further discussion of this must await his return. I have inspected the lab equipment and it has great potential for us should they really phase out the lab operation.
5. Personnel problems dormant for the present and generally improved.

RECEIVED

JAN 28 1977

Div. of Geological Survey
Anchorage

DIVISION OF GEOLOGICAL AND GEOPHYSICAL SURVEYS

WEEKLY LABORATORY WORK SUMMARY

for the week of 1-3 to 1-14

	Public Samples	Geochem. Samples	Division* Samples
Backlog from last week	266		
Submitted during week	0		
Completed during week	0	0 (0)**	0 (0)**
Cumulative completed since January 1	0	0 (0)**	0 (0)**
Backlog at end of week	266		

Remarks:

Signed Max R. [unclear] Date January 14, 1977

*Division and other samples or special investigations not formally reported.
 **Individual determinations, including optical emission spectrography, x-ray diffraction and emission, microscopic work, etc.

DIVISION OF GEOLOGICAL AND GEOPHYSICAL SURVEYS

WEEKLY LABORATORY WORK SUMMARY

for the week of 1-17 to 1-31

RECEIVED

FEB 2 1977

Div. Of Geological Survey
Anchorage

	Public Samples	Geochem. Samples	Division* Samples
Backlog from last week	266		
Submitted during week	41		
Completed during week	2	366 (465)**	1 (1)**
Cumulative completed since January 1	2	366 (465)**	1 (1)**
Backlog at end of week	305		

Remarks:

Signed Mona Robinson Date January 31, 1977

*Division and other samples or special investigations not formally reported.
**Individual determinations, including optical emission spectrography, x-ray diffraction and emission, microscopic work, etc.

REGULATION AND INFORMATION

MEMORANDUM

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYS
TQ: Ross G. Schaff
State Geologist

State of Alaska

DATE: January 26, 1977

FILE NO:

TELEPHONE NO:

Fl for
FROM: Cleland N. Conwell
Mining Engineer

SUBJECT: Monthly report
12-27 to 1-21-77

A. Consultations

I. State

<u>Agency</u>	<u>Date</u>	<u>Topic</u>	<u>Results</u>
1. Div. of Lands	1-5-77	Proposed federal strip mining regulations.	Policy letter on comments for Roderick signature.
2. Dept. of Labor	1-11-77	Jurisdiction on safety areas.	DGGS will not inspect gravel pit. Dept. of Labor will not inspect underground construction, quarry as part of road job will be under D.L.
3. AG, Fairbanks	12-28-76	Alaska Gold.	Information I need will be requested.
4. AG, Juneau	1-18-77	Coal safety regulation.	Requested changes are being made.
5. AG, Fairbanks	1-19-77	Alaska Gold.	AG office will request complete disclosure.
6. Div. of Lands	1-21-77	Montague case.	Judge has given a decree that the state must provide additional evidence.

II. Federal

1. USGS, Denver	12-28-76	Radiograph of Uranium.	Radiograph shows the U in thin seams.
2. BLM	1-18-77	BLM regulations.	Agree. Bond requirement should be rewritten.

III. Other

1. Earth Resource	12-28-76	Healy lease.	Must comply with 11 AAC 46.300 to 11 AAC 47.370.
2. Mobil Oil	1-7-77	Coal CPP conversion lease.	Requirement similar to USGS on federal land.

B. Conferences - None.

C. Research.

1. Recovery of antimony from or near Fairbanks.
2. Recovery of uranium by liquid-liquid extraction.

D. Status of reports.

1. Chignik-Herenden Bay in preparation.
2. Preparing report of Geol. Soc. of Canada.

DIVISION OF GEOLOGICAL SURVEY
 MONTHLY CENTRAL RECORDING WORK SUMMARY
 For Period Ending 1-26-77

	Claim Loc. Notices		Affidavits of Labor		Deeds	Misc.	Total	
	Doc.	Clms	Doc.	Clms	Doc.	Doc.	Doc.	Clms
Backlog	100	100	132	2,143	37	22	291	2,243
Received	513	513	153	2,053	35	41	742	2,566
Processed	551	551	229	3,705	46	36	862	4,256
Backlog	62	62	56	491	26	27	171	553
Cumulative Received Since Jan. 1	513	513	153	2,053	35	41	742	2,566
Cumulative Processed Since Jan. 1	551	551	229	3,705	46	36	862	4,256

REMARKS:

Miscellaneous activities during the month include: typing rough drafts for Cleland Conwell and Gil Eakins. Also typing of Delivery Orders during Carole's absence for vacation. Processed mail and answered telephone during Mona's absence.

Finished sorting all mining documents into Kardex order, for years 1953 through 1973. We are now sorting 1974 and 1975 documents and filing them with the older ones. Discussed microfilming with John Baxandall and feel it may be better to film only inactive documents and retain active papers in our current files. Did an inventory of the entire Kardex file and it appears there is a large volume of inactive numbers.

Received current printout from Computer Center, processed corrections and resubmitted.

Filed all documents which had been processed during the month; the Bureau of mines has been xeroxing the 1976 documents and are updating the mining claim overlays. Jim Barker and his assistant spent several days going through the files and xeroxing the new claims and will furnish us a set of the overlays when completed.

Counted number of new claims filed in the Ketchikan recording district for the years 1970 through 1976 for Jerry Bruder of the Ketchikan Daily News. Miscellaneous activities as per attached report.

Signed *Melvin L. Smith*
 Mining Information Specialist

ACTIVITY REPORT

Mining Information Section

1-26-77

Requests answered:

Mail

2

Telephone

31

Distribution:

Information
Circulars

31

Reports

Geologic

Geochemical

2

Miscellaneous

Xeroxing 425 pages

Number of visitors 89