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Department of Natural Resources
DIVISION OF MINES AND MINERALS

P. O. Box 1391
Juneau, Alaska

MINES AND PETROLEUM BULLETIN

March, 1965

Vol. XIII

No. 3

MINING ACTIVITIES

Northwestern - Kennecott Copper Corporation's Ruby Creek operation is freighting supplies overland for shaft sinking. The company is using two tractor trains and has hauled about a third of approximately 4,000 tons of freight in a month's time. The distance by winter trail from Onion Portage to Bornite is about 60 miles.

Southeastern - Kennecott's Canadian subsidiary, British Columbia Molybdenum Ltd., has announced it will spend \$20,000,000 developing a 6000 ton per day molybdenite operation at Prince Rupert. The deposit is on Alice Arm about 80 miles north of Prince Rupert and is capable of producing 4 to 5 million pounds of molybdenum (contained in concentrate) a year.

OIL NEWS

No new drilling permits were issued during the past month and the only drilling activity consists of two wells, B.P. Exploration Company's Itkillik #1 on the Arctic Slope and Standard Oil Company's Birch Hill Unit #1, north of the Swanson River Field.

Union Oil Company has started building roads and is planning further development of the Kenai Gas Field. A pipeline will be constructed later to transport 100,000 MCF of gas to the Swanson River Field to be injected there in the repressuring program. A number of wells will be drilled this year to assure the volume of gas required.

Two units, one State and one Federal, have been terminated since the first of the year. Susitna State Unit was terminated January 11, 1965, and the Federal Shale Wall Unit on the Arctic Slope was terminated January 25, 1965. Susitna State Unit was comprised of 22,637 acres and Shale Wall was 93,755 acres.

Shell Oil Company's platform at Middle Ground Shoal is between 80% and 90% complete. The contractor is in the process of installing motors, electrical wiring and plumbing.

Appointment: Thomas R. Marshall Jr., Petroleum Geologist in the Division of Mines and Minerals and member of the Alaska Oil and Gas Conservation Committee, has been appointed Executive Secretary of that Committee by James A. Williams, Committee Chairman. In this capacity, Mr. Marshall is authorized to act for the Committee in matters that do not require formal committee orders, with a few exceptions.

Drilling Activity:

<u>Operator</u>	<u>Well Name & Number</u>	<u>Status 2/25/65</u>
Standard Oil Co. of California	Birch Hill Unit #22-25	Drilling
Humble Oil & Refining Company	Tyonek Reserve #1	Suspended
B.P. Exploration	Itkillik Unit #1	Drilling

Producing Wells Oil Barrels Gas (MCF)

Production, Swanson River Field, Hemlock Zone:

January 1965	55	944,032	277,664
Cumulative to February 1, 1965		40,103,822	9,424,181

Production, Kenai Gas Field:

January 1965	3		512,065
Cumulative to February 1, 1965			9,812,807

Production, Sterling Gas Field:

January 1965	1		10,487
Cumulative to February 1, 1965			139,780

Production, Swanson River Field, Kenai Zone:

January 1965	4		198,430
Cumulative to February 1, 1965			8,932,814

Gas Injection, Swanson River Field, Hemlock Zone:

January 1965	3		353,917
Cumulative to February 1, 1965			12,401,891

E. AND M. J. METAL AND MINERAL MARKETS - MARKET GUIDES

The E. and M. J. Metal and Mineral Markets, a weekly published by the Engineering and Mining Journal, has published market guides on mercury and antimony during January and February. These two

publications of about 20 pages each explain a great deal about each metal such as who sells it, how to buy it, how it is used, price history, what affects the market, and what is ahead. Reprints are available at \$2.00 each from Reprint Editor, E. and M. J. Metal and Mineral Markets, 330 West 42nd Street, New York, New York 10036. Persons interested in these two metals will find these publications extremely interesting.

NEW PUBLICATIONS

The following Open File U.S.G.S. reports are available for study at the various U.S.G.S. Offices, U.S. Bureau of Mines Offices, and the Division of Mines and Minerals Offices throughout the State:

Preliminary Geologic Map of the Eagle D-1 Quadrangle, East-Central Alaska, by Earl E. Brabb and Michael Churkin, Jr.

Planetable Maps and Drill logs of the Camp Creek and Bessie-Maple Beryllium-Fluorspar Deposits, Lost River Area, Alaska, by C.L. Sainsbury.

Geologic Map and Structure Sections of the Ogotoruk Creek Area and Vicinity, Alaska, by Russell H. Campbell.

Geochemical Reconnaissance of Stream Sediments in the Iliamna Quadrangle, Alaska, by R.L. Detterman and B.L. Reed.

DM&M GEOLOGIC REPORTS

Geologic Report No. 8, Geology of the Paint River Area, Iliamna Quadrangle, Alaska, by D.H. Richter and G. Herreid is an 18-page report containing geologic and magnetic maps. It also reports the results of geochemical stream sediment sampling. The magnetometer surveys indicate that the known copper and iron deposits are small and widely scattered. The volcanic rock-sediment contact in the vicinity of granitic intrusives, however, appears to be a favorable guide to ore. A number of small geochemical anomalies and one weak, but rather broad, magnetic anomaly may warrant further investigation. Contact metasomatic copper mineralization has long been known in the area. The price of the report is \$1.00.

Other geologic and geochemical reports available from DM&M offices or by mail from the Juneau Office (Box 1391, Juneau, Alaska) are as follows:

- No. 1. Preliminary Report on Geologic Mapping in the Coast Range Mineral Belt, by Gordon Herreid. This report is included in the Annual Report of the Division of Mines and Minerals for the year 1962. No charge, Very limited supply.

- No. 2. Bedrock Geology of the Rainbow Mountain Area, Alaska Range, Alaska; an M.S. thesis prepared by Larry G. Hanson of the University of Alaska in cooperation with the Division of Mines and Minerals. (82 pages plus numerous illustrations and maps) Price. \$2.00.
- No. 3. Geology of the Portage Creek-Susitna River Area, by Donald H. Richter, 1963. (2 large sheets) Price \$1.00.
- No. 4. Geology and Mineral Deposits of the Denali-Maclaren River Area, Alaska, by M.A. Kaufman, May 1964. (19 pages plus large map) Price \$1.00.
- No. 5. Geology of the Niblack Anchorage Area, Southeastern Alaska, by Gordon Herreid, May 1964. (10 pages plus large map) Price \$1.00.
- No. 6. Geology and Mineral Deposits of the Ahtell Creek Area, Slana District, Southcentral Alaska, by Donald H. Richter, May 1964. (17 pages plus large map) Price \$1.00.
- No. 7. Geology of the Dry Pass Area, Southeastern Alaska, by Gordon Herreid and M.A. Kaufman, June 1964. (16 pages) Price \$1.00.

Geochemical Report

- No. 1. Geochemical Investigations of Selected Areas in Southeastern Alaska, by C.F. Herbert and W.H. Race, November 1964. (27 pages plus numerous maps and tables) Price \$1.00.

DIVISION FIELD WORK PLANS FOR 1965

Geologists G. Herreid and Art Rose plan geologic mapping of selected areas on Prince of Wales Island during May. Herreid will then return to the Seward Peninsula and with the aid of an assistant continue the work started there last year. They will do geologic mapping and geochemical sampling during June and July in the areas of the Sinuk and Kugruk Rivers and then finish out the season in the Nixon Fork area. Rose with an assistant will map and sample in the Eklutna area the first part of June and then move on to Broxson Gulch near Rainbow Mountain, until the middle of August. They will then map and sample geochemically in the Paint River area near Kamishak Bay. This last program will extend the geologic mapping and geochemical sampling done by Richter and Herreid in 1963.

Don Richter with an assistant will spend the season in the Slana-Mentasta Mountain areas extending the geologic mapping and geochemical sampling started in 1963. R. Saunders will continue geochemical sampling and bedrock observations near Kokomo Creek,

the Taylor Highway and the Rampart area. He will also make the monthly coal mine safety inspections. W. Burand will spend as much time as can be spared from his assay work in the field sampling tributaries along the Tanana River, Elliot Highway and the Rampart area. M. Jasper will complete magnetometer surveying and geochemical sampling in the Willow Creek area and extend the geochemical sampling program started in 1964 along the Talkeetna Mountains. He will also start a similar program along the Seward Highway. W. Race will continue geochemical sampling and bedrock observations along new logging roads and in other selected areas of southeastern Alaska.

MILITARY COAL BIDS REQUESTED

Bids have been asked for coal for use at military bases normally supplied from the Nenana Coal Field but not from the Matanuska Coal Field. The Defense Fuel Supply Center has asked for bids on 70,000 tons of coal for Clear, 133,000 tons for Eielson Air Force Base and 182,500 tons for Fort Wainwright. Bids will be received until 4:30 March 2.

E. AND M.J. METAL MARKET PRICES

	<u>March 1</u> <u>1965</u>	<u>Month Ago</u>	<u>Year Ago</u>
Copper, per lb.	34.	34.	31.0¢
Lead, per lb.	16.	16.0	13.0
Zinc, per lb.	15.0	15.0	13.0
Tin, per lb.	155.25	152 7/8	144.00
Nickel, per lb.	79¢	79¢	79¢
Platinum, per oz.	97-100	97-100	\$88
Mercury, per flask	490-505	480-495	265-270
Antimony ore, per unit	7.80-8.50	7.90-8.60	4.80-5.50
Beryllium ore, per unit	Not Quoted	Not Quoted	Not Quoted
Chrome ore, per long ton	30-35	30-35	Not Quoted
Molybdenum conc., per lb.	1.55	1.55	\$1.40
Titanium ore, per ton	23-26	23-26	\$23-26
Tungsten ore, per unit	17-19	17-19	\$16-18
Silver, New York, per oz.	129.3	129.3	129.3¢
Silver, U.S. Treasury, per oz.	129.29	129.29	129.29¢

NEW BIRTH
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STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF LANDS

ALASKA

SYSTEM OF RECTANGULAR SURVEYS

SCALE 1" = 50 MI. APPROXIMATE

SCALE OF MILES
0 10 20 30 40 50

MODIFIED CONFORMAL CONIC PROJECTION

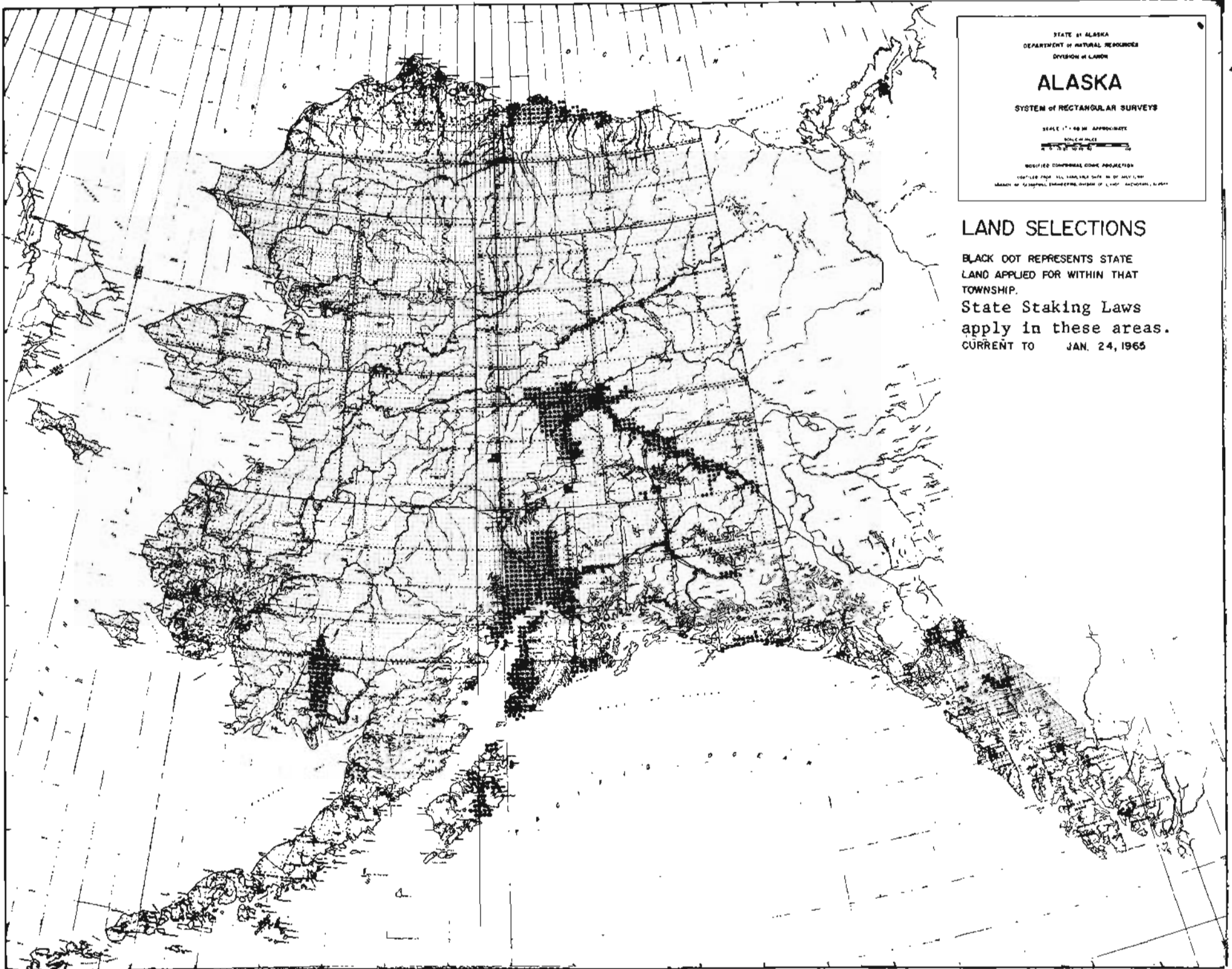
COPIED FROM ALL LANDS DATA AS OF JULY 1, 1965
SOURCE: STATEWIDE ENGINEERING DIVISION OF LANDS, ANCHORAGE, ALASKA

LAND SELECTIONS

BLACK DOT REPRESENTS STATE
LAND APPLIED FOR WITHIN THAT
TOWNSHIP.

State Staking Laws
apply in these areas.

CURRENT TO JAN. 24, 1965



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