PROPERTY OF LIBRARY STATE OF ALASKA DIVISION OF

State of Alaska
Department of Natural Resources
DIVISION OF MINES AND MINERALS

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DIVISION OF P. O. Box 1391 GEOLOGICAL SURVEY Juneau, Alaska

MINES AND PETROLEUM BULLETIN

March, 1966

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Vol. XIV

MINING ACTIVITY

13.89107

Northwest - The Kennecott Copper Company's shaft at Bornite has reached a depth of nearly 700 feet. It is reported that no unforeseen difficulties have been encountered and that the rock through which the shaft is being dug is very stable. Plans call for completing the shaft to the 1000 foot level at which point sumps and pumping facilities will be installed and lateral development begun.

OIL AND GAS

During the month only one new application for permit to drill was approved by the Petroleum Branch of the Division.

Susie Unit #1 - Atlantic Refining Company, Operator - 980'
FNL & 760' FEL, Section 22, T2N-R13E, U.P.M. The drilling
equipment for this well was all airlifted from Fairbanks
to the location. The Well is preparing to spud before March
first.

Another application was approved January 28 which did not make last month's report.

MGS 17595 #6 - Pan American Petroleum Corporation, Operator-1990 FNL & 570' FWL, Section 31, T9N-R12W, S.M. This is a platform well designed as a straight hole to replace their MGS 17595 #4 which was drilled from a barge and which they have been unable to hook up for production.

.....

Drilling Activity:

Operator

Atlantic Refining Company
Atlantic Refining Company
Shell Oil Company
Wallace Mining Company

Pan American Petroleum Corp.

Well Name & Number

Rainbow-Federal #2
Lorraine State #1
MGS A-32-14 (A-4-6)
MGS A-34-14
Wallace-Knutson #1-A
USA Edna May Walker #1

Status 2/24/66 co

Abandoned
Drilling
Completed Thoil well
Drilling Abandone
Changing to rotary
Drilling

Oil and Gas (Continued)

Well Name & Number

Status 2/24/66

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Operator

<u>Operator</u>		WELL Name a non	DEAT	2721700
Texaco, Inc.	APPELIUS II.	Nigólai Creek S		ling
Texaco, Inc.		Location		
Texacqovinc.		Coal Bay State	., -	tion
Ran American Petro	leum Corp.	MGS 17595 #5		ling
Pan American Petro	leum Corp.	MGS 17595 #6		ling
Sinclair Oil and G			••	ling
Standard Oil Co. o				ling
Atlantic Refining		Susie Unit #1	Loca	tion
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nd disase in male		TION - JANUARY,		
od lik od dies til bo		tive to Feb. 1,	<u> 1966</u>	•
•				75-541
Field	Zone	Prod. Wells	Oil, Bbls.	Gas, MCF
2 34	Hemloc k !		042 027	757 220
Swanson River	HewTock	50	943,027 *51,202,221	357,239 *13,239,567
in to dril m			-21,505,551	13,239,507
•	Kenai	2	***	131,911
	KCIMI	-		*10,954,090
ME.				
*:	Hemlock	3		829,566**
	(Injection	1)		*17,599,956
rch		<u> </u>		<u>, , ; ; ; </u>
Middle Ground Shoa	l Hemlock	3	50.048	
2 S	& Kenai	-	*77,505	*33,459
				
Kenai -wofsmego .m	Koji i i Besta saize i 111	Maria 1 1 - Anni Anni Anni Anni Anni Anni Anni An	W. 181. 44	2 727 104
Kenal Sai Sist	.M.S. MSIC-P	(incl. 3 dual)		1,517,184 *16,793,602
lace coef.	Nolla to mem	(Incr. 5 duar)	v. 191361 ,	-10,/93,602
	ිත්ක මහු යන්	· ,-	59 do	1
Sterling		100 100 W	° 95 .	16,768
<u></u> -		-		*265,930
				····

^{**} Includes 608.664 from Kenai Land Land Land Correction for Middle Ground Shoal in December oil production 26,298 bbls.

WILDERNESS ACT MINERAL SURVEYS VIAGRATOR VIA CONTROL OF THE PROPERTY OF THE P

The U.S. Geological Survey and the U.S. Bureau of Mines are in the process of making mineral surveys of more than 52 million acres of

tion in the transport of the design of the the Masken Configuration National Forest Primitive areas in Libwestern states. A deadline of seven years has been set for completion of the surveys. Six out of thirty-four Primitive areas are in the final stages of reporting.

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It is understood that the U.S. Geological Survey will have a field party in Glacier Bay National Monument in Southeastern Alaska this coming field season to investigate the mineral potential of that area. Court of the court of the court of the same of the sam

THE TOTAL OF THE PROPOSED LEGISLATION TO

Alaska - Senate Bill 217, would appropriate \$500,000 for a winter haul

: instantial in

trail from Eairbanks to the Arctic Slope via Anatuvuk Pass.

Senate Bill 262, simplifies and clarifies prospecting permits and locations on state shorelands, tidelands, and submerged lands.

Washington = Senate Bill 338, to liberalize tax deductions on mining exploration expenditures, passed the House of Representatives in the form of H.R. 4665. It would remove the existing restriction in the amount of exploration expenses deductible by mining companies. (I so I) to the weather so the source of the

The state of the s CONTRACT FOR MINE MOUTH PLANT AWARDED

418a. AEA 784. The Golden Valley Electric Association has awarded a \$4,217,000 construction contract to B-E-C-K Construction Company and Raber-Kief Construction Company for the construction of the Healy mine-mouth power plant. The 22,000 kilowatt plant will be built near the Usibelli Coal Mine and furnish power to the Fairbanks area.

NEW PUBLICATIONS

- U.S. Geological Survey, Open File Report, Results of Stream Sediment Sampling in the Iliamna Quadrangle, Alaska, by Bruce L. Reed and Robert L. Detterman. A compilation of semiquantitive spectrographic analyses of stream-sediment samples taken during the course of mapping the quadrangle during 1964 and 1965. Available for reading at the various U.S. Geological Survey and Division of Mines and Minerals offices.
- U.S. Geological Survey, Open File Report, Oil Yield and Chemical Composition of Shale from Northern Alaska, by Harry A. Tourtelot and Irvin L. Tailleur. Seventeen pages, 1 figure and 5 tables. The publications reveal that the shales contain exceptionally high quantities of oil and significant amounts of such metals as copper, zinc, molybdenum, silver and gold. The report is available for reading at the various

U.S. Geological and Division of Mines and Minerals offices within the State. Copies may be procured for \$3.00 from the Alaskan Geology Branch, U.S. Geological Survey, 345 Middlefield Road, Menlo Park, California and at 15426 Federal Building, Denver, Colorado. DO NOT SEND THE MONEY - Simply order the copy and you will be billed by the individual making the copy.

Division of Mines and Minerals, Geochemical Report No. 6, Geochemical Investigations of Selected Areas in Southeastern Alaska, 1964 and 1965 by C.F. Herbert and W.H. Race, Sixty-six pages and numerous maps. Five areas are recommended for detailed prospecting and several others that deserve additional investigations.

Division of Mines and Minerals, Geochemical Report #9, A Geochemical Investigation Along the Taylor Highway, East-Central Alaska, by R.H. Saunders; 17 pages and 13 maps. Reveals nearly 20 areas that deserve additional prospecting.

Division of Mines and Minerals Geological Report #19, Geology of Part of the Amphitheatre Mountains, Mt. Haves Quadrangle, Alaska, by A.W. Rose.
Twelve pages and maps. One titaniferous magnetite body discovered and reported and several anomalous stream sediment samples reported.

These reports will become available during March over the counter at the various offices of the Division of Mines and Minerals as well as by mail from the Juneau office, Box 1391, Juneau, Alaska, 99801. Price \$1.00.

LAND WITHDRAWAL LOCATIONS

The following summary of withdrawals has been prepared with the cooperation of the Bureau of Land Management so that interested people may have a better understanding of which withdrawals are open for mining locations and mineral leasing. The map scale and size precludes accuracy so anyone interested in the exact boundary of any particular withdrawal should contact their nearest Bureau of Land Management office.

Land Withdrawal Locations and Their Availability for Mining and Prospecting

	Open To Open To Mineral
Name	Locations. Leasing
1. Arctic National Wildlife Range , 8,900,000	No meet le le comment le le Yes 1/
2. Army Nike Range 607,800	Not period as No
3. Bering Sea National Wildlife Refuge 39,058	Nous Control Con
4. Cape Denbigh Reindeer Station 48,000	No No
5. Clarence Rhode National Wildlife Range 1,871,360	Yes, Isn byo Yes 1/4. U
6. Fort Greely Maneuver Area 572,000	No.
7. Fort Wainwright Bombing and 654,680	No No No
Gunnery Range	the control of the co
8. Granite Creek Testing and 51,590	No No
Maneuver Area	
9. Hazen Bay National Wildlife Refuge 6,800 mg	2 Note - Bridge Mo No

	2.00000 6-01 (60)			
10.	Kobuk Native Reserve	144,000	· . No	No
11.	Military Reservation (Airfield)	34,013	No	No
4.	Kobe, Alaska Railroad	3 . , 3		
12.	Military Reservation, Gerstle River	19,000	No	No
	Military Reservation, Eielson	8,320	No	No.
	Air Force Base	, ,		
14.	Military Reservation, Fairbanks	22,600	No	No No
	Mt. McKinleyNational Park	2,719,490	Yes	No
16	Naval Petroleum Reserve No. 4	23,000,000	Yes 2/	/ No
17.	Norton BayNative Reserve	200,000	No _	. No
	Nunivak National Wildlife Refuge	200,000 1,109,384	No	No.
19.	Power Site Class. 443.	83,500	Yes	Yes Yes
· · · · · ·	Denali Project	*		
20:	Power Site Class. 450	21,085	Yes	Yes Webes
	(Nenana River Area)			140 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
21.	Power Site Class. 445	8,958,720	Yes	Yes 1.68
	(Rampart)		1.12	Caronical Company
22.	St. Lawrence Island Reindeer	1,205,000	·· No	The North State of the North Sta
	Station			the transministration of the
23.	Tetlin Indian Reserve	557,000	No	Nograna
24.	Venetie Indian Reserve	1,408,000	No	Silver, W
	Yukon Command Training Site	256,000	No	NO
26.		2,000,000	No	Yes 3/evita
		415,000	No	Not classified 4/
28.	Aleutian Islands Wilflife Range	2,899,000	Not Si	pecified 4/
29.	Kodiak National Wildlife Refuge	1,957,000	No	<u> </u>
30.	Moquawkie Indian Reservation	25,000	No	Ÿes
31.	Glacier Bay National Monument	2,297,598	Yes 5,	/ No
32.	Katmai National Monument	2,697,540	No -	No
33-	National Forest	20,916,000	Yes	Yes 6/
34.	Power Site Classification 452		Yes 7	/ Yes <u>8</u> /
35 -	Power Site Classification 395		Yes	Yes

^{1/} See 43 CFR 3120.3-3

However, also see Solicitor's Opinion, 63 I.D. 346 (1956).

^{2/} With BLM and Navy concurrence.

Northern half open subject to F&WS stipulations, Southern half closed.

Mineral leasing is not barred within these areas, but they have not yet been classified in accordance with 43 CFR 3120.3-3.

^{5/} Subject to 43 CFR 3636, National Park Service stipulations.

^{6/} Subject to Department of Agriculture stipulations. 7/ Subject to act of August 11, 1955 (69 Stat. 681).

B/ Subject to Department of Interior stipulations.

E. AND M.J. METAL MARKET PRICES

	· D · PIDITID PRINCE	:	
·	February 28 1966	Month Ago -	Year Ago
••	-200	For the second second	
* 1	2		
Copper, per 1b.	36¢	36¢	34.0¢
Lead, per lb.	16¢ ;	22. 16¢ .4 1 1,4 − 0	16¢
Zinc, per lb.	15¢	15¢	15¢
Tin, per lb.	175.56¢	177.9¢	155.25
Nickel, per lb.	77.75¢	77.75¢	79¢
Platinum, per oz.	\$97-100	\$97-100	\$97-1008
Mercury, per flask	\$445-455	\$508-515	\$490-505
_ •	\$5.50-6.50	\$5.50-6.50	\$7.80-8.50
Beryllium powder, 98% per lb.	\$54-66		\$54-66
Chrome ore, per long ton	\$31-35		
•	\$1.55		20 \$30-35 _{.10}
Molybdenum conc., per lb.		and the second s	m/.:\$1.55
Titanium ore, per ton	\$21-24	\$21-24	\$23-26.50
Tungsten ore, per unit	\$40.25-40.75		
Silver, New York, per oz.	129.3¢	129.3¢	129.3¢-≻°
Silver, U.S. Treasury, per oz.	129.29¢	129.29¢	129,29¢
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