ALASKA DEPARTMENT OF NATURAL RESOURCES
DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYS

GEOLOGIC BASINS AND ENERGY RESOURCES OF ALASKA

SPECIAL REPORT 66
SWENSON AND OTHERS, 2012
SHEET 2 OF 2
REPORT ACCOMPANIES SHEET

Geothermal Resources

AA-1	Little Sitkin	NC-1	Pilgrim	SC-1	Ophir	SE-1	White Sulfur
AA-2	Semisopochnoi	NC-2	Pilgrim Wells	SC-2	Chuilnuk	SE-2	Neka Bay
AA-3	Kanaga	NC-3	Serpentine	SC-3	Mt. Martin	SE-3	Tenakee Inlet
AA-4	Adak	NC-4	Lava Creek	SC-4	Mt. Mageik	SE-4	North Peril Strait
AA-5	Great Sitkin	NC-5	Battleship Mountain	SC-5	Mt. Griggs	SE-5	Tenakee
AA-6	Korovin	NC-6	Kwiniuk	SC-6	Katmai Caldera Lake	SE-6	Tenakee Wells
AA-7	Kliuchef	NC-7	Clear Creek	SC-7	Mt. Trident	SE-7	Nylen
AA-8	Milky River	NC-8	Granite Mountain	SC-8	Snowy Mt.	SE-8	Fish Bay
AA-9	Seguam	NC-9	Hawk	SC-9	Kukak	SE-9	Goddard
AA-10	Chuginadak	NC-10	South	SC-10	Mt. Douglas	SE-10	Baranof
AA-11	Kagamil	NC-11	Upper Division	SC-11	Augustine	SE-11	Baker Island
AA-12	Geyser Bight	NC-12	Lower Division	SC-12	Iliamna	SE-12	Twin Lakes
AA-13	Partov Cove	NC-13	Dulbai	SC-13	Redoubt	SE-13	Mt. Rynda
AA-14	Hot Springs Cove	NC-14	Sun Mountain	SC-14	Mt. Spurr	SE-14	Chief Shakes
AA-15	Okmok Caldera	NC-15	Reed River	SC-15	Willow Well	SE-15	Barnes Lake
AA-16	Makushin Volcano	NC-16	Hornor	SC-16	Lower Klawasi	SE-16	Bradfield Canal
AA-17	Glacier Valley	NC-17	Melozi	SC-17	Upper Klawasi	SE-17	Bailey Bay
AA-18	Makushin Valley	NC-18	Pocahontas	SC-18	North Crater Wrangell	SE-18	Bell Island
AA-19	Summer Bay	NC-19	Tunalkten Lake	SC-19	Copper Glacier		
AA-20	Summer Bay Well	NC-20	Little Melozitna				
AA-21	Akutan Fumaroles	NC-21	McQuesten				
AA-22	Hot Springs Bay	NC-22	Ishtalitna				
AA-23	Akun Strait	NC-23	Kilo				
AA-24	Shishaldin	NC-24	Upper Ray River				
AA-25	False Pass	NC-25	Kanuti				
AA-26	Kenmore	NC-26	Lower Ray River				
AA-27	Egg Island	NC-27	Manley				
AA-28	Cold Bay	NC-28	Manley-Wells				
AA-29	Emmons Lake	NC-29	Hutlinana				
AA-30	Hague	NC-30	Dall				
AA-31	Pavlov	NC-31	Tolovana				
AA-32	Port Moller	NC-32	Chena				
AA-33	Kupreanof	NC-33	Circle				
AA-34	Aniakchak	NC-34	Big Windy				
AA-35	Mother Goose	NC-35	Okpilak				
AA-36	Chiginagak	NC-36	Red Hill Spring				
AA-37	Ukinrek						
AA-38	Gas Rocks						

Major Faults

Thrust Fault Sawteeth on upper (tectonically higher) plate
- Identity and existence certain, location accurate
- Identity and existence certain, location inferred

Strike-Slip Fault, Right-Lateral Offset Arrows show relative motion
- Identity and existence certain, location accurate
- Identity and existence certain, location approximate
- Identity and existence certain, location inferred

Geothermal Resources

Thermal Springs
- Surface temperature unknown
- Surface temperature 50°C or lower
- Surface temperature higher than 50°C

Thermal Wells
- Surface temperature 50°C or lower
- Surface temperature higher than 50°C

Heat Flow
- Geothermal gradient test hole (range of heat flow values in milliwatts/meter^2 shown for individual wells)

- Populated Place
- Exploration Well
- Major Road
- Trans-Alaska Pipeline System
- AEA Energy Region
- Gas Field
- Oil Field
- Coal Field or Province

Sedimentary Basins Contoured in thicker portions of basins

- Onshore Tertiary Sediment
- Offshore Tertiary Sediment
- Moderately Folded Sedimentary Basins of Mostly Mesozoic Age

Bouguer Gravity
- In milligals; hachured in direction of lowest gravity value. Interpreted to represent Cenozoic basin fill in 1 to 3 km range

Sedimentary Basin Isopach
- Contours in kilometers. All Cenozoic in age except for basin deposits in North Slope that are Mississippian and younger
- Edge of Mapped Area

State of Alaska
Department of Natural Resources
DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYS

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SCALE 1 : 3700000

100 0 100 200 300 400 500 MILES

100 0 100 200 300 400 500 600 700 KILOMETERS

SOURCES OF DATA

EXPLORATION WELLS

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Cartography by James R. Weakland