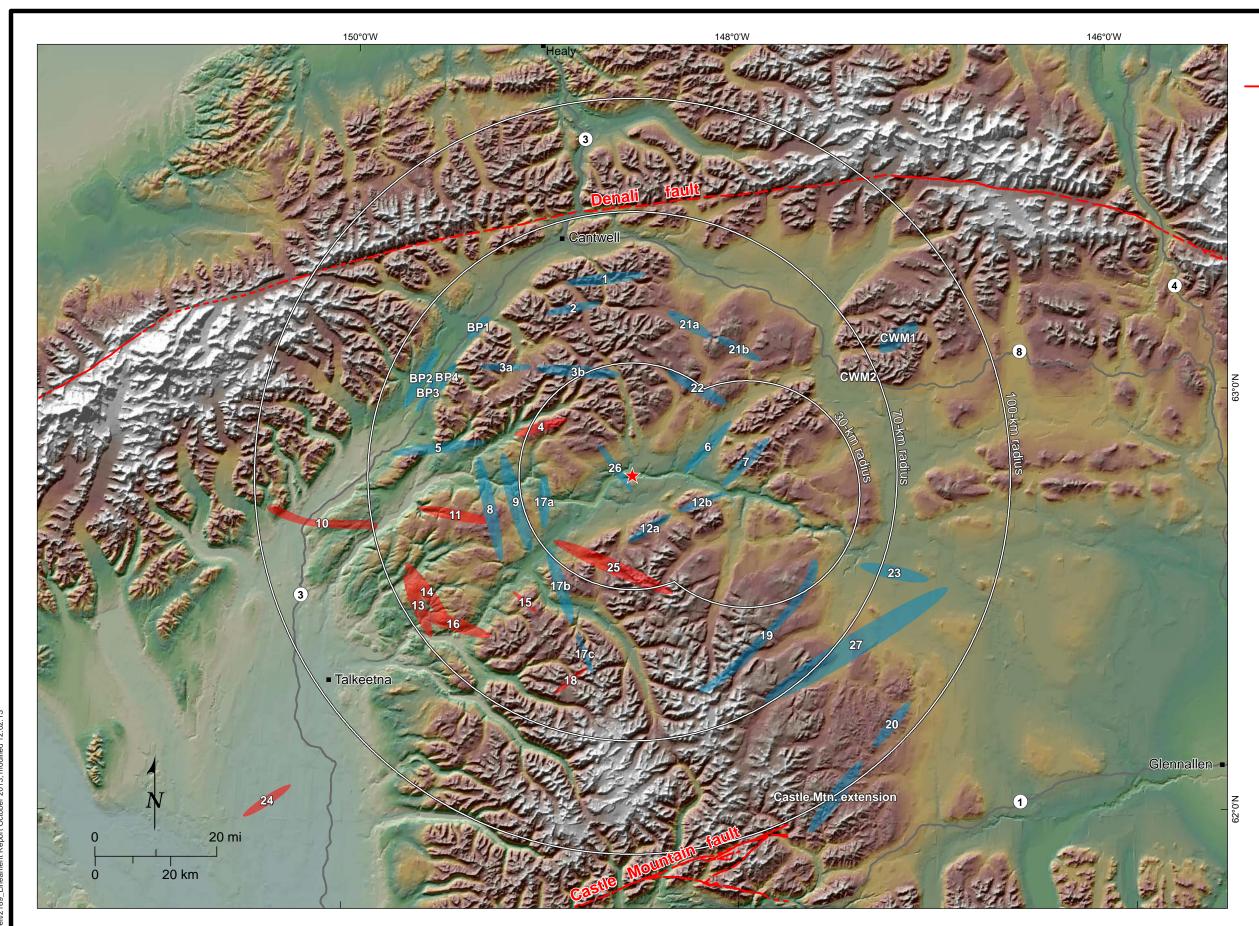
Clean, reliable energy for the next 100 years.

Figures



Explanation

Quaternary fault, solid where well constrained, long dashed line where moderately constrained, short dashed line where inferred (Alaska Division of Geological and Geophysical Surveys, 2012)



Field work planned in 2013 based on results of TM-8 (FCL, 2013)

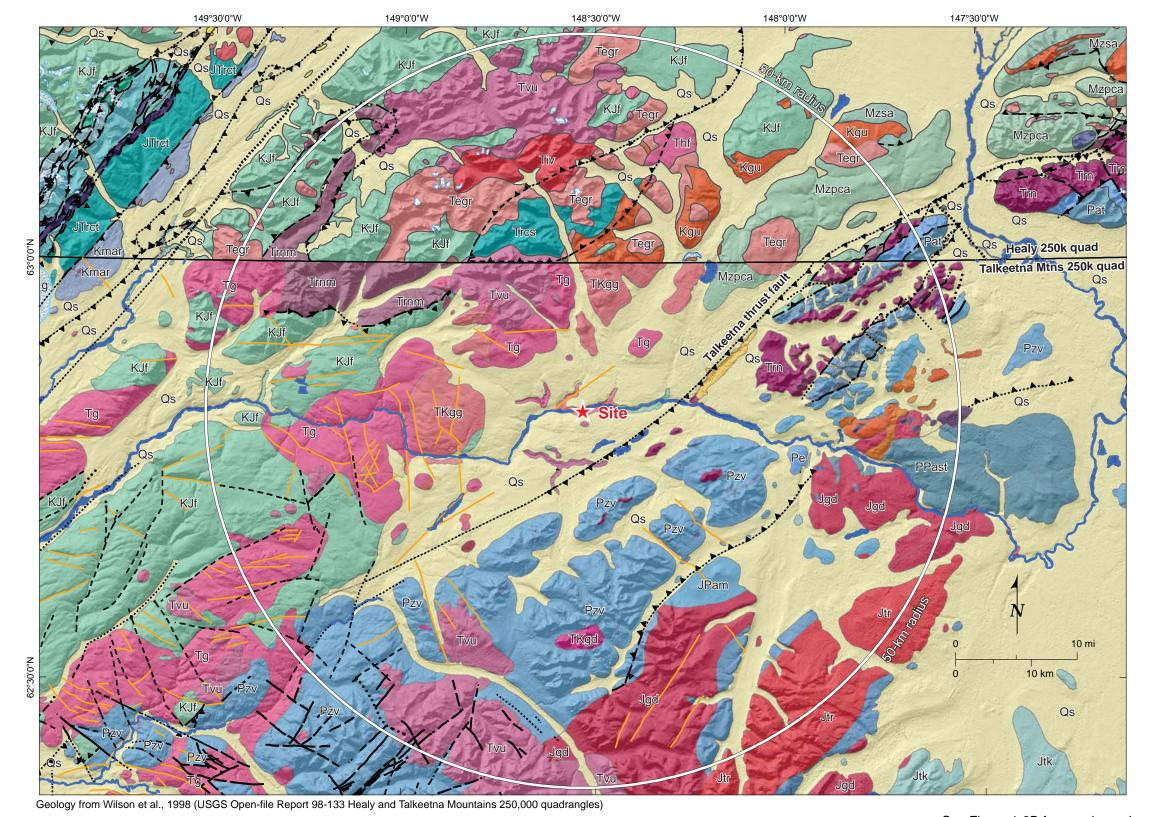


No field work planned in 2013 based on results of TM-8 (FCL, 2013)



Proposed Watana site

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See Figure 1-2B for map legend

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Tn Nenana Gravel Tcb Coal-bearing rocks intrusions Tg Granitic rocks

g Ice fields or glaciers **QUATERNARY DESPOSITS** Qs Surfical deposits, undifferentiated **TERTIARY ROCKS Sedimentary Rocks**

Tsu Sedimentary rocks, unidivided

Tfv Fluviatile sedimentary rocks and subordinate volcanic rocks

> Igneous Rocks **Volcanic and Hypabyssal Rocks**

Tvu Tertiary volcanic rocks, undivided Thf Hypabyssal felsic and intermediate

Hypabyssal mafic intrusions

Intrusive Rocks Tiv Granite and volcanic rocks, undivided EOCENE

Granite and granodiorite

PALEOCENE

TERTIARY AND/OR CRETACEOUS Igneous Rocks Intrusive Rocks

TKg Granitic rocks

TKad Granodiorite, tonalite and monzonite dikes, and stocks

Metamorphic Rocks

TKgg Gneissose granitic rocks

UNDIVIDED MESOZOIC ROCKS METAMORPHIC ROCKS

Mzsa Schist and amphibolite

Mzpca Phyllite, pelitic schist, calc-schist, and amphibolite of the McClaren metamorphic belt

Geology from Wilson et al., 1998 (USGS Open-file Report 98-133)

CRETACEOUS Melange

Kmar Melanges of the Alaska Range

TrSI Limestone blocks

Igneous Rocks Volcanic and hypabyssal rocks

Ksva Andesite subvolcanic rocks

Intrusive Rocks

Kgu Granitic rocks

Kgk/Keg Granitic rocks younger than 85 Ma

Kmum Ultramafic rocks

CRETACEOUS AND/OR JURASSIC

Sedimentary Rocks

Argillite, chert, sandstone, and limestone

Kahiltna flysch sequence

Conglomerate, sandstone, siltstone, shale, and volcanic rocks

> **JURASSIC** Igneous Rocks

Mafic and ultramafic rocks

Alaska-Aleutian Range and Chitina Valley batholiths, undifferentiated

Metamorphic Rocks

Uranatina metaplutonic complex

Sedimentary Rocks

Limestone and marble

Talkeetna Formation

TRIASSIC

Sedimentary Rocks

Trcs Calcareous sedimentary rocks

Trk Kamishak limestone

Plutonic Rocks

Gabbro, diabase, and metagabbro

Volcanic Rocks

Nikolai Greenstone and related similar rocks

Metamorphic Rocks

Metavolcanics and associated metasedimentary rocks

MESOZOIC AND PALEOZOIC

Assemblages and Sequences

JTrsu Red and brown sedimentary rocks and basalt

JTrct Crystal tuff, argillite, chert, graywacke, and limestone

Trr Red beds

TrDv Volcanic and sedimentary rocks

Dmgs Serpentinite, basalt, chert and gabbro

PALEOZOIC

Assemblages and Sequences (Skolai Group)

Pe Eagle Creek Formation

Pzv Station Creek and Slana Spur Fm., and equivalent rocks

Pat Teteina Volcanics

Jpmu/Jpam Streina metamorphic complex PPast

JPzmb Marble

Stratigraphic contact

Shoreline or riverbank

Ice contact (glacier limit)

Lineament

Fault - certain

— — Fault - approximate

--- Fault - inferred

Fault - concealed

Thrust fault - certain

Thrust fault - approximate

A = Thrust fault - inferred

..... Thrust fault - concealed

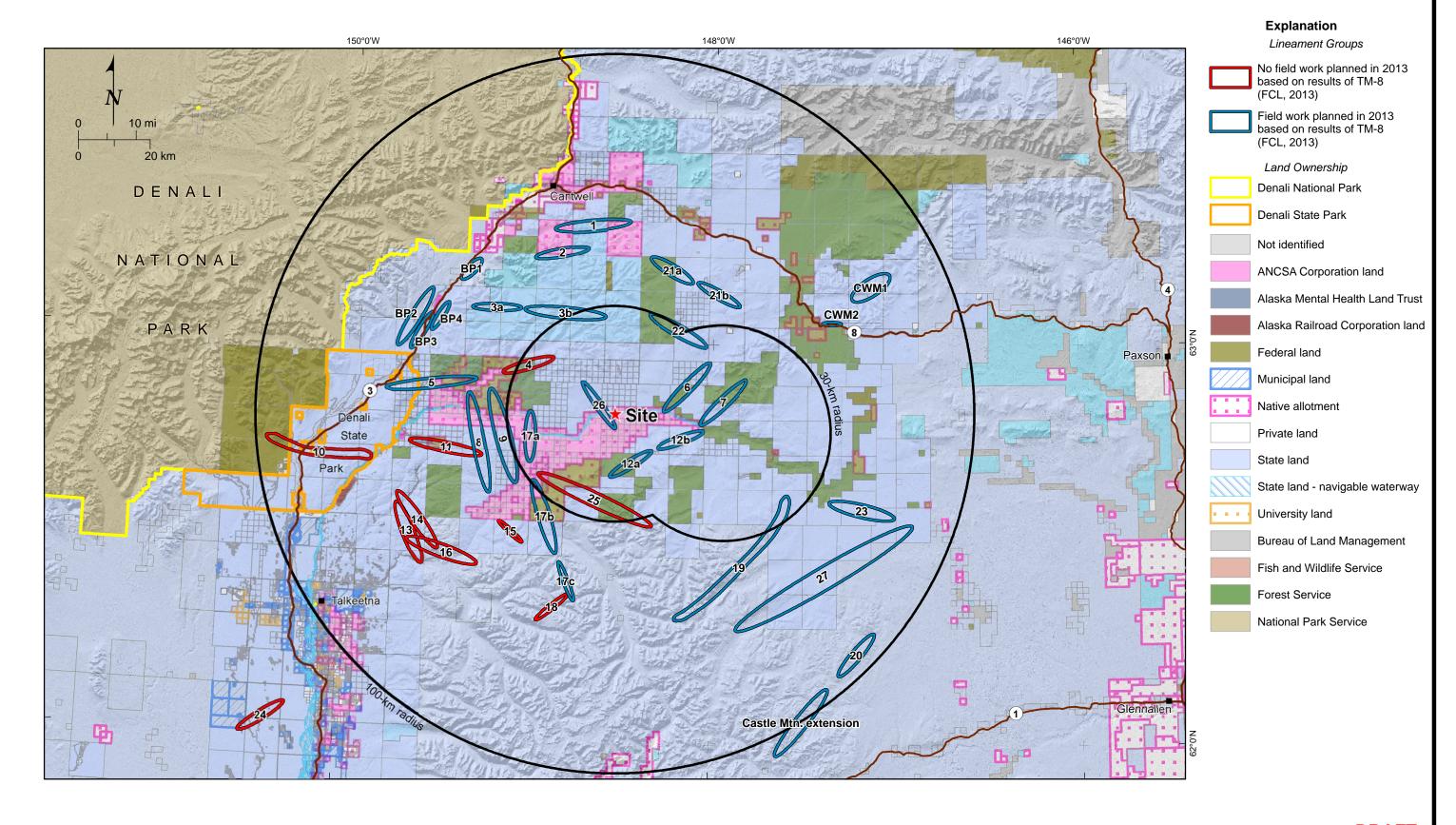
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FIGURE

1-2B











Explanation

Quaternary fault, solid where well constrained, long dash where moderately constrained, short dash where inferred (Koehler et al., 2012)

★ Proposed Watana site

GPS Tracks (by reconnaissance date)

 7/11/2013
 7/19/2013

 7/12/2013
 7/21/2013

 7/13/2013
 7/22/2013

 7/14/2013
 7/23/2013

 7/15/2013
 7/24/2013

 7/16/2013
 9/4/2013

 7/17/2013
 9/5/2013

 7/18/2013

Coordinates on NAD83 UTM 6 North. Elevation from INSAR data and USGS SRTM data.

TUGRODate 12/02/13



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415000

410000

420000

425000