

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W-14361 Date 6/3/81 Time 1000

Name Pole Ck Location: Co. Elko State NV

Sec. NW 8 Twp. 40 NR. 61 E; 2.5 km(mi) NW OF Black Butte

Lat. _____ Long. _____ Elevation 5890 Quad. Black Butte

Sampler DEYMONAZ

Sample Type: Spring (with pipe), well (with pipe), creek river, soil, salt, sinter, travertine, gas, rock, snow

DESCRIPTION:

WATER TEMP. °C 17°C

DISCHARGE 800-1000 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH _____

ODOR None

BORE _____

FLUID COLOR Clear

PUMP TYPE _____

FLUID TASTE —

STATIC HEAD _____

BUBBLING —

SCALING _____

BOILING —

TYPE OF PIPING _____

VEGETATION —

ARTESIAN HEAD _____

FLUID ISSUES FROM Small stream with gravel & silt bottom

ROCK DATA:

TYPE (SURFACE) Gal

COLOR _____

SALT:

GRAIN SIZE _____
MEGASCOPIC MINERALS _____

TYPE /

QUANTITY /

COLOR /

FORM /

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) _____

TYPE /

WATER USED FOR IMMEDIATE AREA USED FOR _____

QUANTITY /

COLOR /

FORM /

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____

#1
Pic #10

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W 14362 Date 6/3/81 Time 1100

Name Marys River Location: Co. Elko State NV

Sec. NW-NE 12 Twp. 37N R. 59E; 3.3 km (mi) N-NE OF Deeth

Lat. _____ Long. _____ Elevation 5390 Quad. Deeth.

Sampler Deymondaz

Sample Type: Spring (with pipe), well (with pipe), creek, river soil, salt, sinter, travertine, gas, rock, snow

DESCRIPTION:

WATER TEMP. °C 15.5

DISCHARGE 2-3000 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH _____

ODOR None

BORE _____

FLUID COLOR Greenish

PUMP TYPE _____

FLUID TASTE _____

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING _____

VEGETATION Green alge, grasses.

ARTESIAN HEAD _____

FLUID ISSUES FROM _____

ROCK DATA:

TYPE (SURFACE) Qal

COLOR _____

SALT:

GRAIN SIZE _____

TYPE _____

MEGASCOPIIC MINERALS _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) _____

TYPE _____

WATER USED FOR IMMEDIATE AREA Cattle

QUANTITY _____

USED FOR Rangeland

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC. GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____

#2
Pic #11

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W-14363 Date 6/3/81 Time 1130

Name Unnamed Windmill Location: Co. Elko State NV

Sec. NW-SE 7 Twp. 38N R. 59E; 3 km(mi) W-SW OF Twin Buttes

Lat. _____ Long. _____ Elevation 5603 Quad. Twin Buttes

Sampler Deymonaz

Sample Type: Spring (with pipe), well (with pipe), creek, river, soil, salt, sinter, travertine, gas, rock, snow

DESCRIPTION:

WATER TEMP. °C 18

DISCHARGE 3 gpm/Lpm

GROUND TEMP. °C —

WELL DATA:

AIR TEMP. —

DEPTH _____

ODOR None

BORE 6"

FLUID COLOR clear

PUMP TYPE Windmill

FLUID TASTE None

STATIC HEAD _____

BUBBLING —

SCALING _____

BOILING —

TYPE OF PIPING black iron-rusty

VEGETATION —

ARTESIAN HEAD No

FLUID ISSUES FROM 2" galvanized steel pipe 50' from well head

ROCK DATA:

TYPE (SURFACE) Tuffs

COLOR Buff

GRAIN SIZE _____
MEGASCOPIC _____
MINERALS _____

SALT:

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

TYPE _____

RX TYPE (AT DEPTH) Tuffs & minor gravels

QUANTITY _____

WATER USED FOR IMMEDIATE AREA USED FOR _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____

Pic # 12

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W-14364 Date 6/3/81 Time 1330

Name Unnamed Spring Location: Co. Elko State NV

Sec. SW 18 Twp. 39N R. 58E; km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 6340 Quad. Hanks CK SW

Sampler Deymonaz

Sample Type: Spring (with pipe), well (with pipe), creek, river, soil, salt, sinter, travertine, gas, rock, snow

DESCRIPTION:

WATER TEMP. °C 12

DISCHARGE 1 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH _____

ODOR None

BORE _____

FLUID COLOR Clear

PUMP TYPE _____

FLUID TASTE None

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING _____

VEGETATION Grass & misc. plants

ARTESIAN HEAD _____

FLUID ISSUES FROM Rubble covered hillside

ROCK DATA:

TYPE (SURFACE) Latite

COLOR Med gray to black

SALT:

GRAIN SIZE _____

TYPE _____

MEGASCOPIC _____

QUANTITY _____

MINERALS _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) _____

TYPE _____

WATER USED FOR _____

QUANTITY _____

IMMEDIATE AREA _____

COLOR _____

USED FOR _____

FORM _____

QUALITY OF SAMPLE: EXC. GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Aquifer along base of welded ash flow

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____

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Pic # 13

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W-14365 Date 6/3/81 Time 1600

Name Unnamed Spring Location: Co. Elko State NV

Sec. SW 19 Twp. 40N R. 59E; 6 km(mi) W OF Mala Vista Ran

Lat. _____ Long. _____ Elevation 6540 Quad. Hot Spgs Ch.

Sampler Deymona

Sample Type: Spring (with pipe), well (with pipe), creek, river, soil, salt, sinter, travertine, gas, rock, snow

DESCRIPTION:

WATER TEMP. °C 11

DISCHARGE 3 gpm/Lpm

GROUND TEMP. °C —

WELL DATA:

AIR TEMP. —

DEPTH _____

ODOR None

BORE _____

FLUID COLOR Clear

PUMP TYPE _____

FLUID TASTE None

STATIC HEAD _____

BUBBLING —

SCALING _____

BOILING —

TYPE OF PIPING _____

VEGETATION —

ARTESIAN HEAD _____

FLUID ISSUES FROM Small rocky hillside

ROCK DATA:

TYPE (SURFACE) Latite.

COLOR _____

SALT:

GRAIN SIZE _____

TYPE _____

MEGASCOPIC MINERALS _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) _____

TYPE _____

WATER USED FOR Stock

QUANTITY _____

IMMEDIATE AREA USED FOR Rangeland

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____

#5
Photo #14

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W-14366 Date 6/3/81 Time 1700
Name Unnamed Spring Location: Co. Elko State NV
Sec. SW-SW 32 Twp. 40 N R. 59 E; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 6400 Quad. Hot Spgs Ck
Sampler Deymonaz

Sample Type: Spring (with pipe), well (with pipe), creek, river, soil, salt, sinter, travertine, gas, rock, snow

DESCRIPTION:

WATER TEMP. °C 18 (Probably some solar heating)

DISCHARGE 1 (gpm) Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH _____

ODOR None

BORE _____

FLUID COLOR clear

PUMP TYPE _____

FLUID TASTE None

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING _____

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM 1 1/2" steel pipe Fed by small fenced pond over spg.

ROCK DATA:

TYPE (SURFACE) Latite Flows & Tufts

COLOR _____

SALT:

GRAIN SIZE
MEGASCOPIC
MINERALS

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) _____

TYPE _____

WATER USED FOR IMMEDIATE AREA Stock
USED FOR Rangeland

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC. GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____

#6
Pic #15

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W-14367 Date 6/3/81 Time 1800

Name Marys River (AT M.R. Ranch) Location: Co. Elko State NV

Sec. SE-SE 30 Twp. 40 N R. 60 E; 1 km(mi) W. OF Mala Vista Ranch

Lat. _____ Long. _____ Elevation 5580 Quad. Black Butte S.W

Sampler Deymonaz

Sample Type: Spring (with pipe), well (with pipe), creek, river, soil, salt, sinter, travertine, gas, rock, snow

DESCRIPTION:

WATER TEMP. °C 17.5

DISCHARGE 2-3000 (gpm) Lpm

GROUND TEMP. °C —

WELL DATA:

AIR TEMP. —

DEPTH _____

ODOR None

BORE _____

FLUID COLOR Slightly greenish

PUMP TYPE _____

FLUID TASTE —

STATIC HEAD _____

BUBBLING —

SCALING _____

BOILING —

TYPE OF PIPING _____

VEGETATION green algae

ARTESIAN HEAD _____

FLUID ISSUES FROM River

ROCK DATA:

TYPE (SURFACE) Qal

COLOR _____

SALT:

GRAIN SIZE
MEGASCOPIC
MINERALS _____

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) _____

TYPE _____

WATER USED FOR IMMEDIATE AREA
USED FOR Stock
Rancher's

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC. GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____

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AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W-14308 Date 6/3/81 Time 1930

Name Marys River Location: Co. Elko State Nv.

Sec. NE-NW 2 Twp. 38 N R. 59 E; 0.5 km/mi E OF Twin Buttes

Lat. _____ Long. _____ Elevation 5480 Quad. Twin Buttes

Sampler Deymonaz

Sample Type: Spring (with pipe), well (with pipe), creek, river, soil, salt, sinter, travertine, gas, rock, snow

DESCRIPTION:

WATER TEMP. °C 17

DISCHARGE _____ gpm/Lpm

GROUND TEMP. °C -

WELL DATA:

AIR TEMP. -

DEPTH _____

ODOR No

BORE _____

FLUID COLOR Slightly greenish

PUMP TYPE _____

FLUID TASTE None

STATIC HEAD _____

BUBBLING ✓

SCALING _____

BOILING ✓

TYPE OF PIPING _____

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM Stream

ROCK DATA:

TYPE (SURFACE) Qal

COLOR _____

SALT:

GRAIN SIZE
MEGASCOPIIC
MINERALS _____

TYPE /

QUANTITY /

COLOR /

FORM /

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) _____

TYPE /

WATER USED FOR IMMEDIATE AREA Stock

QUANTITY /

USED FOR Rangeland

COLOR /

FORM /

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____

ANALYTICAL REPORT

DATE 6/19/81
 ANALYST S. Hoatson
 TYPE SAMPLES GEOTHERMAL WATER

REQ. NO. 12414 JOB NO. _____
 PROJECT 1030
 REQUESTED BY John Deymonaz

SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM
01 W-14291	220.	31.	31.	1.7	22.	31 W-14291	0.7	1.2	210	21.	2.0
02 92	330.	10.	12.	4.9	120.	32 92	2.1	2.8	330.	53.	8.4
03						33					
04						34					
05						35					
06						36					
07						37					
08						38					
09						39					
10 W-						40 W-					
11						41					
12						42					
13						43					
14						44					
15						45					
16						46					
17						47					
18						48					
19						49					
20 W-						50 W-					
21						51					
22						52					
23						53					
24						54					
25						55					
26						56					
27						57					
28						58					
29						59					
30						60					

METHODS: Digestion- Sample Weight-
 Na, K, Ca, Mg, SiO₂, Li: AA
 Determination- B: CARMINIC ACID COLORIMETRIC
 F: SPECIFIC ION ELECTRODE
 REMARKS: Cl: MERCURIMETRIC TITRATION
 SO₄: TURBIDIMETRIC

NOTE: Mail Original to
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