



G L 0 5 5 9 1

FILE\_CAB\_DRAWER\_

H<sub>2</sub>O 1984 California, Nevada,  
Oregon. Geothermal, Geochemical Sample Forms.  
Sample Numbers G10234-G10236 and  
W-14524 — W15986

---

Counties, Calif = Modoc, Mono, Inyo,  
Siskiyou, Tulare, San Bernardino.  
Oregon = Deschutes  
Nevada = Lyon, Nye, Esmeralda, Mineral

day is cloudy, threatening to rain

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. \_\_\_\_\_ Date 25 JUN 84 Time 3:00 PM

Name WILSON HOT SPRING Location: Co. LYON State NV

Sec. 34 Twp. 11N R. 25E; \_\_\_\_\_ km/mi \_\_\_\_\_ OF \_\_\_\_\_

Lat. \_\_\_\_\_ Long. \_\_\_\_\_ Elevation 5777 Quad. YERINGTON

Sampler \_\_\_\_\_

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

DESCRIPTION: "STEAMING GROUND" ROCK HOT TO TOUCH

LOWERED  
MAX REG THOR-  
MOMENTUM  
INTO MOUTH  
OR ORIFICE.

WATER TEMP. °C \_\_\_\_\_

GROUND TEMP. °C 89°C

AIR TEMP. 35°C

ODOR NONE

FLUID COLOR NONE

FLUID TASTE \_\_\_\_\_

BUBBLING \_\_\_\_\_

BOILING \_\_\_\_\_

VEGETATION SEE NOTE

FLUID ISSUES FROM \_\_\_\_\_

DISCHARGE \_\_\_\_\_ gpm/Lpm

WELL DATA:

DEPTH \_\_\_\_\_

BORE \_\_\_\_\_

PUMP TYPE \_\_\_\_\_

STATIC HEAD \_\_\_\_\_

SCALING \_\_\_\_\_

TYPE OF PIPING \_\_\_\_\_

ARTESIAN HEAD \_\_\_\_\_

ROCK DATA:

TYPE (SURFACE) altered volcanics (hb andesite)

COLOR red + green

GRAIN SIZE \_\_\_\_\_  
MEGASCOPIC \_\_\_\_\_  
MINERALS \_\_\_\_\_

SALT:

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION argillic, hydrothermal

SINTER:

RX TYPE (AT DEPTH) hb andesite

TYPE CaCO3

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA USED FOR \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION fault-related

PROPERTY OWNED BY \_\_\_\_\_

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

- MAJOR RIDGE S OF STEAMING HOLE TRENDS  
N 30 W + HAS  $\text{CaCO}_3$  LAYERS DIPPING  $50^\circ$  S,  
THESE LAYERS A MIXTURE OF  $\text{CaCO}_3$ ,  $\text{SiO}_2$  + ?.
- area of INTEREST COVERS  $\sim 25\%$  OF SEC 34, at least.
- SHALLOW WELL BORE  $8\frac{3}{4}$ " WIDE + 0.5m deep gives  
 $87^\circ\text{C}$ . may have been considerably deep but filled in.  
located  $\sim 10\text{m}$  SW of steaming orifice.
- veg may outline anomaly--
- PLATER CLAIM 18th Green # 23 in MICKEY SPR  
MINING DISTRICT, 1983.  $W\frac{1}{2}$  of NE  $\frac{1}{4}$  section 3  
Steve Hamilton Box 844 Fernley  
Jim Walker 3597 Amber St, Silver Spr
- on north slope S+W of hole, abundant coarsely x-limed  
calcite

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. G10234 Date 7/18/84 Time 3 PM

Name HOT SPOT Location: Co. SISAHOU State Ca

Sec. 33 Ccd Twp. 44N R. 4E; 1 km(mi) WNW OF GLASS MTN

Lat. \_\_\_\_\_ Long. \_\_\_\_\_ Elevation 7100 Quad. MEDICINE LAKE

Sampler WOLLER - PILKINGTON

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

DESCRIPTION:

WATER TEMP. °C \_\_\_\_\_

DISCHARGE \_\_\_\_\_ gpm/Lpm

GROUND TEMP. °C > 56°C

WELL DATA:

AIR TEMP. 30°C

DEPTH \_\_\_\_\_

ODOR EARTHY

BORE \_\_\_\_\_

FLUID COLOR -

PUMP TYPE \_\_\_\_\_

FLUID TASTE -

STATIC HEAD \_\_\_\_\_

BUBBLING -

SCALING \_\_\_\_\_

BOILING -

TYPE OF PIPING \_\_\_\_\_

VEGETATION -

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM -

ROCK DATA:

TYPE (SURFACE) DECOMPOSED ASHFLOW TUFF

COLOR BROWN TO WHITE

GRAIN SIZE MIXED, FROM 3" CLASTS TO CLAY

MEGASCOPIC MINERALS \_\_\_\_\_

SALT:

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION TUFF -> CLAY

SINTER:

RX TYPE (AT DEPTH) ASHFLOW TUFF

TYPE \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA \_\_\_\_\_

QUANTITY \_\_\_\_\_

USED FOR \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: (EXC.), GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION ABOVE PLUTON (?)

PROPERTY OWNED BY USFS

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

G10235

Spring No. \_\_\_\_\_ Sample No. ML-26 Date 7/31/84 Time 11:AM

Name SCHWANN SPRING Location: Co. SISKIYOU State CA

Sec. 3 Cd;Cc Twp. 43N R. 3E ; .5 km/mi NW OF MEDICINE LAKE GUARD STATION

Lat. \_\_\_\_\_ Long. \_\_\_\_\_ Elevation 6800 FT Quad. MEDICINE LAKE

Sampler WOLGER

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

DESCRIPTION:

WATER TEMP. °C \_\_\_\_\_ DISCHARGE \_\_\_\_\_ gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_ WELL DATA:

AIR TEMP. \_\_\_\_\_ DEPTH \_\_\_\_\_

ODOR \_\_\_\_\_ BORE \_\_\_\_\_

FLUID COLOR \_\_\_\_\_ PUMP TYPE \_\_\_\_\_

FLUID TASTE \_\_\_\_\_ STATIC HEAD \_\_\_\_\_

BUBBLING \_\_\_\_\_ SCALING \_\_\_\_\_

BOILING \_\_\_\_\_ TYPE OF PIPING \_\_\_\_\_

VEGETATION \_\_\_\_\_ ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM \_\_\_\_\_ ROCK DATA:

\_\_\_\_\_ TYPE (SURFACE) \_\_\_\_\_

COLOR WHITE

SALT: \_\_\_\_\_ GRAIN SIZE \_\_\_\_\_

TYPE \_\_\_\_\_ MEGASCOPIC \_\_\_\_\_

QUANTITY \_\_\_\_\_ MINERALS \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_ ALTERATION BLEACHED

SINTER: \_\_\_\_\_ RX TYPE (AT DEPTH) BASALTIC ANDESITE

TYPE \_\_\_\_\_ WATER USED FOR \_\_\_\_\_

QUANTITY \_\_\_\_\_ IMMEDIATE AREA \_\_\_\_\_

COLOR \_\_\_\_\_ USED FOR \_\_\_\_\_

FORM \_\_\_\_\_ QUALITY OF SAMPLE: EXC., GOOD, POOR HIGH GRADED

PROBABLE CAUSE OF MANIFESTATION HYDROTHERMAL ALTERATION.

PROPERTY OWNED BY USFS

PREVIOUS AND/OR CURRENT LEASES ?

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. 610236 Date 7/30/84 Time 4 PM

Name RED SHALE BUTTE Location: Co. SISNAYOU State CA

Sec. 12.95 CM FROM SOUTH HARBOR  
2.70 CM FROM EAST HARBOR Twp. 43N R. 4E ; 09 km(mi) SW OF LYONS PEAK

Lat. \_\_\_\_\_ Long. \_\_\_\_\_ Elevation 7110 Quad. MEDICINE LAKE

Sampler WOLLER

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

DESCRIPTION:

WATER TEMP. °C \_\_\_\_\_ DISCHARGE \_\_\_\_\_ gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_ WELL DATA:

AIR TEMP. \_\_\_\_\_ DEPTH \_\_\_\_\_

ODOR \_\_\_\_\_ BORE \_\_\_\_\_

FLUID COLOR \_\_\_\_\_ PUMP TYPE \_\_\_\_\_

FLUID TASTE \_\_\_\_\_ STATIC HEAD \_\_\_\_\_

BUBBLING \_\_\_\_\_ SCALING \_\_\_\_\_

BOILING \_\_\_\_\_ TYPE OF PIPING \_\_\_\_\_

VEGETATION \_\_\_\_\_ ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM \_\_\_\_\_ ROCK DATA:

TYPE (SURFACE) FLOAT

COLOR WHITE

SALT: \_\_\_\_\_ GRAIN SIZE \_\_\_\_\_

TYPE \_\_\_\_\_ MEGASCOPIC \_\_\_\_\_

QUANTITY \_\_\_\_\_ MINERALS \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_ ALTERATION BLEACHED

SINTER: \_\_\_\_\_ RX TYPE (AT DEPTH) BRECCIA? BASALTIC ANDESITE?

TYPE \_\_\_\_\_ WATER USED FOR \_\_\_\_\_

QUANTITY \_\_\_\_\_ IMMEDIATE AREA \_\_\_\_\_

COLOR \_\_\_\_\_ USED FOR \_\_\_\_\_

FORM \_\_\_\_\_ QUALITY OF SAMPLE: EXC., GOOD, POOR HI GRADED FLOAT

PROBABLE CAUSE OF MANIFESTATION HYDROTHERMAL ALTERATION

PROPERTY OWNED BY USFS

PREVIOUS AND/OR CURRENT LEASES ?

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W-14524 Date 4/13/89 Time 1500

Name Chub Spg Location: Co. ESM State NV

Sec. NW1/4 NW1/4 20 Twp. 1 S R. 36 E; \_\_\_\_\_ km/mi \_\_\_\_\_ OF \_\_\_\_\_

Lat. \_\_\_\_\_ Long. \_\_\_\_\_ Elevation \_\_\_\_\_ Quad. Davis Mts

Sampler Deymona ?

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

DESCRIPTION:

WATER TEMP. °C 21

DISCHARGE UNK gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. \_\_\_\_\_

DEPTH \_\_\_\_\_

ODOR \_\_\_\_\_

BORE \_\_\_\_\_

FLUID COLOR \_\_\_\_\_

PUMP TYPE \_\_\_\_\_

FLUID TASTE \_\_\_\_\_

STATIC HEAD \_\_\_\_\_

BUBBLING \_\_\_\_\_

SCALING \_\_\_\_\_

BOILING \_\_\_\_\_

TYPE OF PIPING \_\_\_\_\_

VEGETATION \_\_\_\_\_

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM shallow sandy

ROCK DATA:

pond

TYPE (SURFACE) Qal

COLOR \_\_\_\_\_

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 \_\_\_\_\_

PROPERTY OWNED BY \_\_\_\_\_

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W-14525 Date 4/13/84 Time 1500

Name Uncaused Flowing well Location: Co. ESM State NV

Sec. SW1/4 NW1/4 20 Twp. 15 R. 36E; \_\_\_\_\_ km/mi \_\_\_\_\_ OF \_\_\_\_\_

Lat. \_\_\_\_\_ Long. \_\_\_\_\_ Elevation \_\_\_\_\_ Quad. Davis Mtn

Sampler \_\_\_\_\_

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

DESCRIPTION:

WATER TEMP. °C 24

DISCHARGE 100 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. \_\_\_\_\_

DEPTH Unknown

ODOR none

BORE 10'

FLUID COLOR Clear

PUMP TYPE Artesian

FLUID TASTE \_\_\_\_\_

STATIC HEAD 1'

BUBBLING \_\_\_\_\_

SCALING \_\_\_\_\_

BOILING \_\_\_\_\_

TYPE OF PIPING Iron

VEGETATION \_\_\_\_\_

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM rusty moss covered steel pipe

ROCK DATA:

TYPE (SURFACE) \_\_\_\_\_

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 \_\_\_\_\_



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W-14526 Date 4/13/84 Time 1600  
Name VRS-1 oil Test Location: Co. ESM State NV  
Sec. NW/NE 16 Twp. 1S R. 36E ; \_\_\_\_\_ km/mi \_\_\_\_\_ OF \_\_\_\_\_  
Lat. \_\_\_\_\_ Long. \_\_\_\_\_ Elevation \_\_\_\_\_ Quad. Rhyolite Ridge  
Sampler \_\_\_\_\_

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

DESCRIPTION:

WATER TEMP. °C 39 DISCHARGE 40 gpm/Lpm  
GROUND TEMP. °C \_\_\_\_\_ WELL DATA:  
AIR TEMP. \_\_\_\_\_ DEPTH ~ 800'  
ODOR \_\_\_\_\_ BORE \_\_\_\_\_  
FLUID COLOR \_\_\_\_\_ PUMP TYPE Artesian  
FLUID TASTE \_\_\_\_\_ STATIC HEAD \_\_\_\_\_  
BUBBLING \_\_\_\_\_ SCALING \_\_\_\_\_  
BOILING \_\_\_\_\_ TYPE OF PIPING \_\_\_\_\_  
VEGETATION \_\_\_\_\_ ARTESIAN HEAD \_\_\_\_\_  
FLUID ISSUES FROM \_\_\_\_\_ ROCK DATA:  
TYPE (SURFACE) \_\_\_\_\_  
COLOR \_\_\_\_\_  
GRAIN SIZE \_\_\_\_\_  
MEGASCOPIC MINERALS \_\_\_\_\_  
SALT: TYPE \_\_\_\_\_ ALTERATION \_\_\_\_\_  
QUANTITY \_\_\_\_\_ RX TYPE (AT DEPTH) \_\_\_\_\_  
COLOR \_\_\_\_\_ WATER USED FOR IMMEDIATE AREA USED FOR \_\_\_\_\_  
FORM \_\_\_\_\_ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION \_\_\_\_\_  
PROPERTY OWNED BY \_\_\_\_\_  
PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

Railroad Vly

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W-14529 Date 12-5-84 Time 12:00  
Name Eds Well Location: Co. NYE State NV  
Sec. 35 NE/4W Twp. 3N R. 53E ; \_\_\_\_\_ km/mi \_\_\_\_\_ OF \_\_\_\_\_  
Lat. \_\_\_\_\_ Long. \_\_\_\_\_ Elevation 4963 Quad. LUND 1:250,000 (AMS)  
Sampler DEYMONAZ

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

DESCRIPTION:

WATER TEMP. °C 25°C DISCHARGE 5 (gpm/Lpm)  
GROUND TEMP. °C \_\_\_\_\_ WELL DATA:  
AIR TEMP. \_\_\_\_\_ DEPTH 300 FT  
ODOR None BORE 6"  
FLUID COLOR Clear PUMP TYPE Jack pump  
FLUID TASTE None STATIC HEAD 170 FT  
BUBBLING No SCALING No  
BOILING No TYPE OF PIPING Steel  
VEGETATION No ARTESIAN HEAD —  
FLUID ISSUES FROM 2" pipe near wellhead ROCK DATA:  
TYPE (SURFACE) Qal

SALT:

TYPE None GRAIN SIZE \_\_\_\_\_  
QUANTITY / MEGASCOPIC \_\_\_\_\_  
COLOR \_\_\_\_\_ MINERALS \_\_\_\_\_  
FORM \_\_\_\_\_ ALTERATION \_\_\_\_\_

SINTER:

TYPE None RX TYPE (AT DEPTH) Qal or Tertiary volcanic  
QUANTITY / WATER USED FOR Stock  
COLOR \_\_\_\_\_ IMMEDIATE AREA \_\_\_\_\_  
FORM \_\_\_\_\_ USED FOR Range  
QUALITY OF SAMPLE: (X), GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION \_\_\_\_\_

PROPERTY OWNED BY BLM

PREVIOUS AND/OR CURRENT LEASES None

Railroad Uly

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. 14530 ~~W-14534~~ Date 12-5-84 Time 11:00 AM  
Name Unnamed Boiling Well Location: Co. NYE State NV  
Sec. 24 Twp. 3N R. 53E; 2 km(mi) NNE OF EDS WELL  
Lat. \_\_\_\_\_ Long. \_\_\_\_\_ Elevation 5500 Quad. LUND 1:250,000 (AMS)  
Sampler DEYMONAZ  
Sample Type: Spring (with pipe), well (with pipe), creek, river, soil, salt, sinter, travertine, gas, rock, snow

DESCRIPTION:

WATER TEMP. °C 111.97 °C DISCHARGE None gpm/Lpm  
GROUND TEMP. °C \_\_\_\_\_ WELL DATA:  
AIR TEMP. ~ 35 °F DEPTH 190  
ODOR Mild H<sub>2</sub>S BORE 4"  
FLUID COLOR Muddy & rust PUMP TYPE None  
FLUID TASTE V. Mild NaCl STATIC HEAD 55' FT (approx)  
BUBBLING — SCALING —  
BOILING YES TYPE OF PIPING rusty 4" steel  
VEGETATION — ARTESIAN HEAD No

FLUID ISSUES FROM Collected w/  
Downhole Sampler

ROCK DATA:

TYPE (SURFACE) Siliceous sintec  
COLOR white

SALT:

TYPE \_\_\_\_\_  
QUANTITY \_\_\_\_\_  
COLOR \_\_\_\_\_  
FORM \_\_\_\_\_

GRAIN SIZE \_\_\_\_\_  
MEGASCOPIC MINERALS \_\_\_\_\_

ALTERATION \_\_\_\_\_

SINTER:

TYPE Siliceous  
QUANTITY 400' x 1000' x 30' high  
COLOR White  
FORM Amoo

RX TYPE (AT DEPTH) silicic tufts & flows  
WATER USED FOR IMMEDIATE AREA No  
USED FOR Range

QUALITY OF SAMPLE: EXC. (GOOD) POOR

PROBABLE CAUSE OF MANIFESTATION N-S trending Fault zone  
PROPERTY OWNED BY BLM  
PREVIOUS AND/OR CURRENT LEASES Joe Fallini - Secs. 13 & 24 T3N, R53E

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. X W14775 Date 6/12/84 Time 2:40pm

Name: Chub Spring Location: Co. Esmeralda State NV

NW 20 Sec. T 15 R: 36E; 6 km/mi. N of Dyer Ranch

Lat.: 37° 51' Long.: 118° 0.05' Sampler: D. Pilkington

Elevation: 4740 Quad. Dans mtn Quad 15'

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

Description:

Water Temp. °C 21 Discharge: 50-70 gpm/lpm

Ground Temp. °C \_\_\_\_\_ Well Data: Depth \_\_\_\_\_

Air Temp. \_\_\_\_\_ Bore \_\_\_\_\_

Odor NO Pump Type \_\_\_\_\_

Fluid Color clear Level of water in bore \_\_\_\_\_

Fluid Taste None Type of piping \_\_\_\_\_

Bubbling yes Artesian Head \_\_\_\_\_

Boiling NO Rock Data: \_\_\_\_\_

Vegetation water cross Type (surface) None

Fluid issues from AI Color \_\_\_\_\_

Grain size \_\_\_\_\_

Megascopic Minerals \_\_\_\_\_

Salt: Type Yes \_\_\_\_\_

Quantity abundant \_\_\_\_\_

Color white Alteration: None

Form \_\_\_\_\_ Rx Type (at depth) Tertiary Volcanic

Sinter: Type None Water used for stock

Quantity \_\_\_\_\_ Immediate area used for: grazing

Color \_\_\_\_\_

Form \_\_\_\_\_ Quality of sample: Exc., Good, Poor

Probable cause of manifestation ground water

Property owned by McNott Homestead

Previous and/or Current Leases Magma Energy Co.

Comments: Roll 20 # 2  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SKETCHES  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

W15503

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

W15720

Spring No. \_\_\_\_\_ Sample No. ~~W15720~~ Date 18 Jun 84 Time 5<sup>17</sup>

Name POINSETTIA SPRING Location: Co. MINERAL State NV

Sec. 34 Twp. 11N R. 33E ; 6 km/mi S OF GARBS VALLEY ROAD

Lat. 38° 46' 30" Long. 118° 15' 30" Elevation 5185 Quad. POINSETTIA SPRING

Sampler J. FONSECA

Sample Type: Spring (with pipe), well (with pipe), creek, river, soil, salt, sinter, travertine, gas, rock, snow photo #4

DESCRIPTION:

WATER TEMP. °C 13°

DISCHARGE 0.5 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. \_\_\_\_\_

DEPTH N/A

ODOR none

BORE \_\_\_\_\_

FLUID COLOR none

PUMP TYPE \_\_\_\_\_

FLUID TASTE none

STATIC HEAD \_\_\_\_\_

BUBBLING no

SCALING \_\_\_\_\_

BOILING no

TYPE OF PIPING \_\_\_\_\_

VEGETATION poplar

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM low spot surrounded by wooden structure to keep stack out

ROCK DATA:

TYPE (SURFACE) argillie alt of T. volcanics

COLOR brown

GRAIN SIZE MEGASCOPIC MINERALS clayey

SALT:

TYPE no

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION limonite/jarosite

SINTER:

RX TYPE (AT DEPTH) \_\_\_\_\_

TYPE no

WATER USED FOR IMMEDIATE AREA USED FOR stock stock

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., (GOOD), POOR

PROBABLE CAUSE OF MANIFESTATION deep fracture in bedrock

PROPERTY OWNED BY \_\_\_\_\_

PREVIOUS AND/OR CURRENT LEASES mineral rights: Boy Scouts? or Gene Mattson of Hawthorne

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15505 Date 6/29/84 Time 15:30 hr.

Name Sand Spring Location: Co. Deschutes State Oregon

Sec. 31 Twp. 21S R. 16E; 3/4 mi SE OF Sand Spg. BPA Station

Lat. 43° 44' Long. 120° 50' Elevation 4940 Quad. Crescent AMS

Sampler M. Wilkening

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

DESCRIPTION:

WATER TEMP. °C 14.05°C

DISCHARGE 1.0 gpm/ft

GROUND TEMP. °C 29°C 23°C

WELL DATA:

AIR TEMP. 29°C

DEPTH \_\_\_\_\_

ODOR None

BORE \_\_\_\_\_

FLUID COLOR Clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE None

STATIC HEAD \_\_\_\_\_

BUBBLING No

SCALING \_\_\_\_\_

BOILING No

TYPE OF PIPING \_\_\_\_\_

VEGETATION Reeds + Sage brush

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM Gal + Pumice

ROCK DATA:

TYPE (SURFACE) Pumice

COLOR white

GRAIN SIZE glass.  
MEGASCOPIC MINERALS \_\_\_\_\_

SALT:

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION None

SINTER:

RX TYPE (AT DEPTH) Newberry volcanics

TYPE \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA Wildlife

QUANTITY \_\_\_\_\_

USED FOR Logging

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION surface expression of water table

PROPERTY OWNED BY US Forest Service

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W-15507 Date 7/19/84 Time 1600  
 Name Little Tableland 1 Location: Co. Siskiyou State CA  
 Sec. 3 Twp. 46N R. 2E ; \_\_\_\_\_ km/mi \_\_\_\_\_ OF \_\_\_\_\_  
 Lat. \_\_\_\_\_ Long. \_\_\_\_\_ Elevation 4180 Quad. Mt Dome Calif 15min  
 Sampler M Wilkening

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

DESCRIPTION:

WATER TEMP. °C	<u>19.5</u>	DISCHARGE	<u>NA</u>	gpm/Lpm
GROUND TEMP. °C	_____	WELL DATA:		
AIR TEMP.	<u>27°C</u>	DEPTH	_____	
ODOR	<u>None</u>	BORE	_____	
FLUID COLOR	<u>Clear</u>	PUMP TYPE	<u>submersible</u>	
FLUID TASTE	<u>None</u>	STATIC HEAD	_____	
BUBBLING	<u>No</u>	SCALING	<u>No</u>	
BOILING	<u>No</u>	TYPE OF PIPING	<u>1" steel</u>	
VEGETATION	<u>Grasses wheat</u>	ARTESIAN HEAD	_____	
FLUID ISSUES FROM	<u>1" steel pipe</u>	ROCK DATA:		
		TYPE (SURFACE)	<u>Basalt + volcaniclastic sed</u>	
		COLOR	<u>dk grey</u>	

SALT:

TYPE \_\_\_\_\_  
 QUANTITY \_\_\_\_\_  
 COLOR \_\_\_\_\_  
 FORM \_\_\_\_\_

GRAIN SIZE \_\_\_\_\_  
 MEGASCOPIC \_\_\_\_\_  
 MINERALS \_\_\_\_\_  
 ALTERATION None

SINTER:

TYPE \_\_\_\_\_  
 QUANTITY \_\_\_\_\_  
 COLOR \_\_\_\_\_  
 FORM \_\_\_\_\_

RX TYPE (AT DEPTH) Q+T volcanics  
 WATER USED FOR IMMEDIATE AREA Cattle  
 USED FOR Grazing  
 QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION \_\_\_\_\_  
 PROPERTY OWNED BY \_\_\_\_\_  
 PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_





AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W 15509 Date 8/8/84 Time \_\_\_\_\_

Name Lairds Camp Location: Co. Siskiyou State CA

Sec. SE NW 31 Twp. 46 N R. 3 E ; \_\_\_\_\_ km/mi \_\_\_\_\_ OF \_\_\_\_\_

Lat. \_\_\_\_\_ Long. \_\_\_\_\_ Elevation \_\_\_\_\_ Quad. \_\_\_\_\_

Sampler \_\_\_\_\_

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

DESCRIPTION:

WATER TEMP. °C 16

DISCHARGE 75 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. \_\_\_\_\_

DEPTH ?

ODOR \_\_\_\_\_

BORE ?

FLUID COLOR \_\_\_\_\_

PUMP TYPE \_\_\_\_\_

FLUID TASTE \_\_\_\_\_

STATIC HEAD —

BUBBLING \_\_\_\_\_

SCALING —

BOILING \_\_\_\_\_

TYPE OF PIPING IRON

VEGETATION \_\_\_\_\_

ARTESIAN HEAD —

FLUID ISSUES FROM \_\_\_\_\_

ROCK DATA:

\_\_\_\_\_

TYPE (SURFACE) \_\_\_\_\_

\_\_\_\_\_

COLOR \_\_\_\_\_

SALT:

GRAIN SIZE \_\_\_\_\_

TYPE \_\_\_\_\_

MEGASCOPIC \_\_\_\_\_

MINERALS \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION \_\_\_\_\_

SINTER:

RX TYPE (AT DEPTH) \_\_\_\_\_

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

WATER USED FOR \_\_\_\_\_

IMMEDIATE AREA \_\_\_\_\_

USED FOR \_\_\_\_\_

QUALITY OF SAMPLE EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION \_\_\_\_\_

PROPERTY OWNED BY \_\_\_\_\_

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15560 Date 6/26/84 Time 1:30 PM

Name DAVIS LAKE FLOW Location: Co. \_\_\_\_\_ State OR

Sec. 18 Dddq Twp. 22S R. 8E; ~~12th~~ km/mi 1.99 MI OF E OF PINE BOTTE

Lat. \_\_\_\_\_ Long. \_\_\_\_\_ Elevation 4350' Quad. DAVIS MTN QVAD

Sampler WOLLER, PILKINGTON

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

DESCRIPTION:

WATER TEMP. °C 7.8°C

DISCHARGE 1000-1500 ~~gpm~~ gpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA: \_\_\_\_\_

AIR TEMP. ~ ~~82~~ 82°F (27°C)

DEPTH \_\_\_\_\_

ODOR NONE

BORE \_\_\_\_\_

FLUID COLOR COLORLESS

PUMP TYPE \_\_\_\_\_

FLUID TASTE GOOD

STATIC HEAD \_\_\_\_\_

BUBBLING \_\_\_\_\_

SCALING \_\_\_\_\_

BOILING \_\_\_\_\_

TYPE OF PIPING \_\_\_\_\_

VEGETATION NONE

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM YOUNG LAVA FLOW

ROCK DATA: \_\_\_\_\_

TYPE (SURFACE) \_\_\_\_\_

COLOR \_\_\_\_\_

SALT:

GRAIN SIZE \_\_\_\_\_

TYPE UNKNOWN WHITE FILM DEPOSIT MEGASCOPIC MINERALS \_\_\_\_\_

QUANTITY VERY THIN FILM

COLOR WHITE

FORM FORMS AT WATER-AIR INTERFACE ALTERATION NONE

SINTER:

RX TYPE (AT DEPTH) BASALT

TYPE \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA \_\_\_\_\_

QUANTITY \_\_\_\_\_

USED FOR \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION YOUNG VOLCANIC VENT

PROPERTY OWNED BY USFS

PREVIOUS AND/OR CURRENT LEASES ?

NOTE: SPRING MAY ACTUALLY BE DAVIS LAKE WATER PERCOLATING THROUGH ~~FROM~~ LAVA FLOW

WHICH DRAWS IT

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15561 Date 6/26/84 Time 2: PM

Name DAVIS LAKE FLOW II Location: Co. \_\_\_\_\_ State OR

Sec. 18 Ddb Twp. 22 S R. 8 E; ~~1.95~~ km/mi 1.95 E OF PINE BUTTE

Lat. \_\_\_\_\_ Long. \_\_\_\_\_ Elevation 4350 Quad. DAVIS MTN QUAD

Sampler WOLLER

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

DESCRIPTION:

WATER TEMP. °C 7.8°C

DISCHARGE 50 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 27°C

DEPTH \_\_\_\_\_

ODOR NONE

BORE \_\_\_\_\_

FLUID COLOR CLEAR

PUMP TYPE \_\_\_\_\_

FLUID TASTE GOOD

STATIC HEAD \_\_\_\_\_

BUBBLING ✓

SCALING \_\_\_\_\_

BOILING \_\_\_\_\_

TYPE OF PIPING \_\_\_\_\_

VEGETATION NONE

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM BARE ROADSIDE AREA

ROCK DATA:

NEAR V. YOUNG LAVA FLOW

TYPE (SURFACE) \_\_\_\_\_

COLOR \_\_\_\_\_

SALT:

GRAIN SIZE \_\_\_\_\_  
MEGASCOPIC \_\_\_\_\_  
MINERALS \_\_\_\_\_

TYPE NONE

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION NONE

SINTER:

RX TYPE (AT DEPTH) BASALT

TYPE \_\_\_\_\_

WATER USED FOR \_\_\_\_\_  
IMMEDIATE AREA \_\_\_\_\_  
USED FOR \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: (EXC.), GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION YOUNG VOLCANIC VENT / PERCOLATING LAKE WATER

PROPERTY OWNED BY USFS

PREVIOUS AND/OR CURRENT LEASES ?

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15562 Date 7/15/84 Time 1054 AM

Name ~~POUD~~ ~~WELL~~ PUMICE STONE WELL Location: Co. \_\_\_\_\_ State CA

Sec. 14 Acdd Twp. 43N R. 2E ; 2.6 km(mi) NE OF PUMICE STONE MTN.

Lat. \_\_\_\_\_ Long. \_\_\_\_\_ Elevation 6340 Quad. MEDICINE LAKE

Sampler WOLLER

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

DESCRIPTION:

WATER TEMP. °C 9.8

DISCHARGE \_\_\_\_\_ gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 80°F ~ 32 C

DEPTH V. SHALLOW

ODOR NONE

BORE 8"

FLUID COLOR CLEAR

PUMP TYPE DIESEL MOBILE

FLUID TASTE NONE

STATIC HEAD 3'

BUBBLING \_\_\_\_\_

SCALING NONE

BOILING \_\_\_\_\_

TYPE OF PIPING PVC

VEGETATION \_\_\_\_\_

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM \_\_\_\_\_

ROCK DATA:

TYPE (SURFACE) \_\_\_\_\_

COLOR \_\_\_\_\_

SALT:

GRAIN SIZE  
MEGASCOPIC  
MINERALS \_\_\_\_\_

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION \_\_\_\_\_

SINTER:

RX TYPE (AT DEPTH) \_\_\_\_\_

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

WATER USED FOR  
IMMEDIATE AREA  
USED FOR \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION \_\_\_\_\_

PROPERTY OWNED BY USFS

PREVIOUS AND/OR CURRENT LEASES ?



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15563 Date 7/31/84 Time 11:AM

Name SCHONNIN SPRING Location: Co: SISKIYOU State CA

Sec. 3 CCQ Twp. 43N R. 3E ; .5 km/mi NW OF MEDICINE LAKE GUARD STATION

Lat. \_\_\_\_\_ Long. \_\_\_\_\_ Elevation 6790 Quad. MEDICINE LAKE

Sampler WOLLER

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

DESCRIPTION:

WATER TEMP. °C 30°C

DISCHARGE 25 gpm (gpm/Lpm)

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 30°C

DEPTH \_\_\_\_\_

ODOR NONE

BORE \_\_\_\_\_

FLUID COLOR CLEAR

PUMP TYPE \_\_\_\_\_

FLUID TASTE NONE

STATIC HEAD \_\_\_\_\_

BUBBLING NO

SCALING \_\_\_\_\_

BOILING NO

TYPE OF PIPING \_\_\_\_\_

VEGETATION GRASS + TREES

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM PIPE HORIZONTAL

ROCK DATA:

INTO GROUND. ~~GROUND IS~~ HYDROTHERMALLY ALTERED ROCK OCCURS NEARBY

TYPE (SURFACE) \_\_\_\_\_

COLOR \_\_\_\_\_

SALT:

GRAIN SIZE MEGASCOPIC MINERALS \_\_\_\_\_

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION BLEACHE VOL CANIC ROCKS

SINTER:

RX TYPE (AT DEPTH) BASALTIC ANDESITE

TYPE \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA CAMP  
USED FOR \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

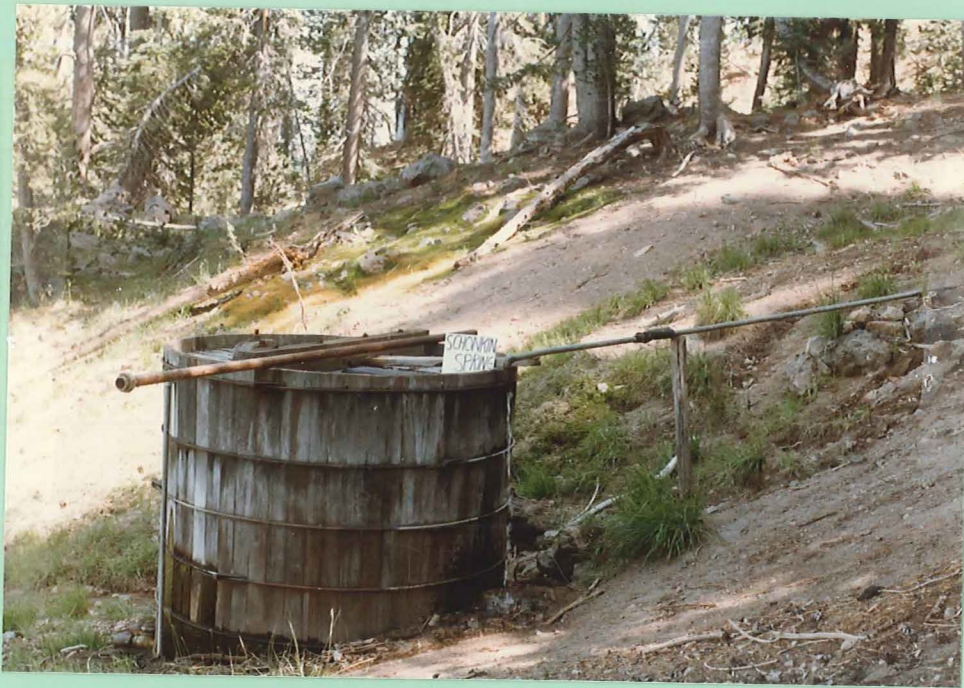
QUALITY OF SAMPLE: (X) EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION GROUNDWATER

PROPERTY OWNED BY USFS

PREVIOUS AND/OR CURRENT LEASES ?





AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

WELL  
Spring No. W15564 Sample No. W15564 Date 8/6/84 Time 12:30

Name ACKLEY #1 Location: Co. \_\_\_\_\_ State \_\_\_\_\_

Sec. 29 Ad Twp. 45N R. 6E ; 1.7 km(mi) SW OF DALTON RANCH

Lat. \_\_\_\_\_ Long. \_\_\_\_\_ Elevation 4140 Quad. TIMBER MTN

Sampler WOLLER

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

DESCRIPTION:

WATER TEMP. °C 22°

DISCHARGE 100 gpm/lpm

GROUND TEMP. °C 27°

WELL DATA:

AIR TEMP. 27°

DEPTH 140'

ODOR -

BORE \_\_\_\_\_

FLUID COLOR CLEAR

PUMP TYPE ELECTRIC

FLUID TASTE GOOD

STATIC HEAD 127'

BUBBLING -

SCALING -

BOILING -

TYPE OF PIPING \_\_\_\_\_

VEGETATION SMALL CLUMP OF TREES

ARTESIAN HEAD -

FLUID ISSUES FROM 12" PIPE

ROCK DATA:

TYPE (SURFACE) \_\_\_\_\_

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 RAY ACKLEY, STAR RTE BOX 2, TULE LAKE, Ca, 95634

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_



ACKLEY #1



ACKLEY #1



ACKLEY #1

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

WELL  
Spring No. W15565 Sample No. W15565 Date 8/7/84 Time 11:21 AM

Name ROUND BARN WELL Location: Co. MACOC State Ca

Sec. 20 Ddd Twp. 45N R. 6E ; 2.35 km(mi) SW OF DALTON RANCH

Lat. \_\_\_\_\_ Long. \_\_\_\_\_ Elevation 4140' Quad. TIMBER MTN Ca

Sampler WOLLER

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

DESCRIPTION:

WATER TEMP. °C 22° C

DISCHARGE 10-20 gpm gpm/Lpm

GROUND TEMP. °C 27° C

WELL DATA:

AIR TEMP. 27° C

DEPTH 100'

ODOR \_\_\_\_\_

BORE LARGE

FLUID COLOR CLEAR

PUMP TYPE SUBMERSIBLE

FLUID TASTE \_\_\_\_\_

STATIC HEAD \_\_\_\_\_

BUBBLING -

SCALING \_\_\_\_\_

BOILING -

TYPE OF PIPING \_\_\_\_\_

VEGETATION SCRUB GRASS

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM PIPE

ROCK DATA:

TYPE (SURFACE) \_\_\_\_\_

COLOR \_\_\_\_\_

SALT:

GRAIN SIZE \_\_\_\_\_

TYPE \_\_\_\_\_

MEGASCOPIC \_\_\_\_\_

MINERALS \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION \_\_\_\_\_

SINTER:

RX TYPE (AT DEPTH) \_\_\_\_\_

TYPE \_\_\_\_\_

WATER USED FOR \_\_\_\_\_

QUANTITY \_\_\_\_\_

IMMEDIATE AREA \_\_\_\_\_

USED FOR \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION \_\_\_\_\_

PROPERTY OWNED BY Ackley, STAR RTE BOX 2, TULE LAKE Ca 96134

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

REPORTEDLY 84° F BY OWNER  
REPORT ANALYSIS TO OWNER



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

WELL  
Spring No. WISS66 Sample No. WISS66 Date 8/7/84 Time 11:38

Name ACKLEY #2 Location: Co MOORE State CO

Sec. 29 Ad Twp. 45N R. 6E ; km/mi \_\_\_\_\_ OF \_\_\_\_\_

Lat. \_\_\_\_\_ Long. \_\_\_\_\_ Elevation 4140' Quad. TIMBER MTN

Sampler WOLLER

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

DESCRIPTION:

WATER TEMP. °C 25°C

DISCHARGE 150 (gpm)/Lpm

GROUND TEMP. °C 27°C

WELL DATA:

AIR TEMP. 27°C

DEPTH 300'

ODOR NONE

BORE \_\_\_\_\_

FLUID COLOR CLEAR

PUMP TYPE \_\_\_\_\_

FLUID TASTE WARM

STATIC HEAD 127

BUBBLING —

SCALING \_\_\_\_\_

BOILING —

TYPE OF PIPING \_\_\_\_\_

VEGETATION SCRUBGRASS

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM \_\_\_\_\_

ROCK DATA:

TYPE (SURFACE) \_\_\_\_\_

COLOR \_\_\_\_\_

SALT:

GRAIN SIZE \_\_\_\_\_

TYPE \_\_\_\_\_

MEGASCOPIC \_\_\_\_\_

MINERALS \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION \_\_\_\_\_

SINTER:

RX TYPE (AT DEPTH) \_\_\_\_\_

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

WATER USED FOR \_\_\_\_\_

IMMEDIATE AREA \_\_\_\_\_

USED FOR \_\_\_\_\_

QUALITY OF SAMPLE: (EXC.), GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION \_\_\_\_\_

PROPERTY OWNED BY ACKLEY, STAR RTE BOX 2 TULE LAKE, CO 90134

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

REPORTEDLY B2F FROM OWNER  
REPORT ANALYSIS TO OWNER



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

WELL  
Spring No. WISS67 Sample No. WISS67 Date 8/2/84 Time 1 PM  
Name ACHLEY #3 Location: Co. MODOC State Ca  
Sec. 17 Ddc Twp. 45N R. 6E ; km/mi \_\_\_\_\_ OF \_\_\_\_\_  
Lat. \_\_\_\_\_ Long. \_\_\_\_\_ Elevation 4140 Quad. TIMBER MTN  
Sampler WOLLER

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

DESCRIPTION:

WATER TEMP. °C 14.5 DISCHARGE 150 (gpm)/Lpm  
GROUND TEMP. °C 27° WELL DATA:  
AIR TEMP. 27° DEPTH 300'  
ODOR - BORE \_\_\_\_\_  
FLUID COLOR COLORLESS PUMP TYPE ELECTRIC  
FLUID TASTE GOOD STATIC HEAD 127  
BUBBLING - SCALING -  
BOILING - TYPE OF PIPING -  
VEGETATION SMALL CLUMP TREES ARTESIAN HEAD -  
FLUID ISSUES FROM 12" PIPE ROCK DATA:

TYPE (SURFACE) \_\_\_\_\_  
COLOR \_\_\_\_\_

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 \_\_\_\_\_

PROPERTY OWNED BY ACHLEY, STAR RT BOX 2, TULE LAKE, Ca, 96134

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

REPORT ANALYSIS TO OWNER





AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

This cold spring is  
~100m from hot  
spring W15419

Spring No. \_\_\_\_\_ Sample No. W15452 Date 20 JUN Time 5:30 PM  
 Name COLD SPRING (unnamed) Location: Co. MINER State NV  
 Sec. 7 Twp. 12N R. 34E; 0.50 km/mi 0.5 NW OF ROAD TO HOT WELL  
 Lat. 38°55'30" Long. 118°12' Elevation 4125 Quad. MOUNT ANNIE  
 Sampler J. FONSECA

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

DESCRIPTION:

WATER TEMP. °C 25  
 mean annual GROUND TEMP. °C 11°?  
 AIR TEMP. 85°F  
 ODOR none  
 FLUID COLOR none  
 FLUID TASTE unknown  
 BUBBLING NO  
 BOILING NO  
 VEGETATION Salt grass

DISCHARGE none - but there is a well-marked continuous channel gpm/Lpm  
 WELL DATA: away from pool.

FLUID ISSUES FROM 6m diam pool  
at least 1 foot deep.

ROCK DATA:  
 TYPE (SURFACE) playa silt/clay  
 COLOR \_\_\_\_\_

SALT:  
 from evaporation  
 of water

TYPE CaCO<sub>3</sub>, gypsum, NaCl  
 QUANTITY moderate  
 COLOR white  
 FORM effloresung  
 ALTERATION \_\_\_\_\_

SINTER: NONE

RX TYPE (AT DEPTH) diorite

TYPE \_\_\_\_\_  
 QUANTITY \_\_\_\_\_  
 COLOR \_\_\_\_\_  
 FORM \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA nothing  
 USED FOR junkyard, housing

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION UNKNOWN

PROPERTY OWNED BY Don Seley (deceased)

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

Handwritten text, possibly a date or note, located in the top right corner of the page.

$$0 = 32$$
$$100 = 212$$

$$\begin{array}{r} 25 \\ \underline{1.0} \\ 200 \\ \underline{25} \\ 45 + 32 = 77 \end{array}$$

2

Handwritten text at the bottom of the page, possibly a signature or name.

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15653 Date 21 JUNE Time 12:00  
Name RAMSEY SPRING Location: Co. MINERAL State NV  
Sec. 36 Twp. 11N R. 33E; \_\_\_\_\_ km/mi \_\_\_\_\_ OF \_\_\_\_\_  
Lat. \_\_\_\_\_ Long. \_\_\_\_\_ Elevation 4890 Quad. RAMSEY SPRING  
Sampler J. FONSECT

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

DESCRIPTION:

*Flows thru pipe thru*

WATER TEMP. °C 25.5

DISCHARGE 0.6 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. ~ 23°C

DEPTH \_\_\_\_\_

ODOR NONE

BORE \_\_\_\_\_

FLUID COLOR NONE

PUMP TYPE \_\_\_\_\_

FLUID TASTE UNKNOWN

STATIC HEAD \_\_\_\_\_

BUBBLING NO

SCALING \_\_\_\_\_

BOILING NO

TYPE OF PIPING \_\_\_\_\_

VEGETATION greasewood

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM low spot boarded

ROCK DATA: argillic alteration of

over -- can't see spring itself -

TYPE (SURFACE) Bedrock

water issues from pipe

COLOR purplish brown

SALT:

GRAIN SIZE clayey

TYPE NO

MEGASCOPIC MINERALS bt, plag phenocrysts.

QUANTITY \_\_\_\_\_

bedrock is andesite w/ plagioclase

COLOR \_\_\_\_\_

phenocrysts

FORM \_\_\_\_\_

ALTERATION argillic

SINTER:

+ possibly

RX TYPE (AT DEPTH) above

TYPE see rock sample

WATER USED FOR IMMEDIATE AREA stock

QUANTITY minor

USED FOR stock/mining

COLOR \_\_\_\_\_

FORM laminated

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION GW TABLE

PROPERTY OWNED BY MINERAL RIGHTS - MATSON, GENET + SANDY of Hawthorne

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

*SW 1/4 SE 1/4*

*slight green algae coating on pipe*

*Arsenic? Barium?*

*w/ CaCO3 pieces of bt + hb from wall rock*

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. 15655 Date 28 JUN Time 1:00 PM

Name SPRING NEAR OLD DUGAN PLACE Location: Co. NYE State NV

Sec. 25 Twp. 8N R. 49E; 15 km(mi) W OF US 6

Lat. 38° 28' Long. 116° 23' Elevation 5875 Quad. LITTLE FISH LAKE

Sampler J. FONSECA

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

DESCRIPTION:

WATER TEMP. °C 35°

DISCHARGE ~300-400 (gpm/Lpm)  
ACC. TO THERMAL WELLS OF NEV  
WELL DATA:

GROUND TEMP. °C unknown

AIR TEMP. 26°

ODOR none

FLUID COLOR none

FLUID TASTE none

BUBBLING not visibly

BOILING no

VEGETATION saltgrass, cottonwood

FLUID ISSUES FROM stream alluvium,  
into large (10m) pool.

ROCK DATA:  
TYPE (SURFACE) alluvium  
COLOR light brown  
GRAIN SIZE gravel  
MEGASCOPIC MINERALS \_\_\_\_\_

SALT:  
TYPE none

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

SINTER:  
TYPE none

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION none  
RX TYPE (AT DEPTH) Pre-Cambrian quartzite,  
LS + D shale  
WATER USED FOR IMMEDIATE AREA swimming, drinking  
USED FOR grazing?

QUALITY OF SAMPLE: EXC. GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION fault

PROPERTY OWNED BY Moffett of Hot Creek Ranch

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

CLOUDY, WINDY

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W 15657 Date 29 JUN Time 5:30 PM?

Name NEV STATE HIGHWAY REST STOP Location: Co. NYE State NV

Sec. NW 1/4 22 Twp. 6N R. 51E; mi/milepost 66 OF US. 6

Lat. 38° 22' Long. 116° 13.5' Elevation 5237 Quad. BUCKWHEAT RIM

Sampler J. FONSECA

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

NOTE: COBB SAYS WELL IS 24-25 YRS OLD, ~~WELL~~ PIPE NEEDS REPLACEMENT, 'ROTTEN'

DESCRIPTION:

WATER TEMP. °C 22° C DISCHARGE \_\_\_\_\_ gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 28° C

DEPTH 238 ft

ODOR None

BORE 8"

FLUID COLOR none

PUMP TYPE submersible.

FLUID TASTE \_\_\_\_\_

STATIC HEAD 44 ft.

BUBBLING had lots of very small bubbles.

SCALING none visible. see note above

BOILING \_\_\_\_\_

TYPE OF PIPING \_\_\_\_\_

VEGETATION \_\_\_\_\_

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM well.

ROCK DATA:

TYPE (SURFACE) Qal

COLOR light brown

GRAIN SIZE sand-clay-gravel

MEGASCOPIC MINERALS qtz, fsp, lithic

SALT:

TYPE N/A

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION \_\_\_\_\_

SINTER:

TYPE N/A

RX TYPE (AT DEPTH) volcanic + volcaniclastics  
Paleozoic sed. underlain by  
WATER USED FOR section. travelers

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE (EXC.), GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION drilled well

PROPERTY OWNED BY New State Highway dept. contact Lee Cobb, Tonopah.

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

sampled at end of aqueduct before empties into  
cow trough.

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

location of  
spring, not  
stock pond,  
is given

Spring No. \_\_\_\_\_ Sample No. W15658 Date 30 JUN 84 Time 11:00  
Name BLACK SPRING Location: Co. NVE State NV  
Sec. NW 1/4 6 Twp. 32 N R. 50 E; 1.4 km(mi) 1.4 mi SOUTH OF HWY 6  
Lat. 38° 09' Long. 116° 23' Elevation 5930 Quad. WARM SPRINGS NW  
Sampler J. FONSECA

Sample Type: Spring (with pipe), well (with pipe), creek, river, soil, salt, sinter,  
travertine, gas, rock, snow  
SPRING W/ AQUEDUCT.

DESCRIPTION:

WATER TEMP. °C 24°  
GROUND TEMP. °C unknown  
AIR TEMP. 32°  
ODOR none  
FLUID COLOR none  
FLUID TASTE \_\_\_\_\_  
BUBBLING no  
BOILING no  
VEGETATION greasewood

DISCHARGE 7-8 gpm (Lpm)

WELL DATA:

DEPTH \_\_\_\_\_  
BORE \_\_\_\_\_  
PUMP TYPE \_\_\_\_\_  
STATIC HEAD \_\_\_\_\_  
SCALING \_\_\_\_\_  
TYPE OF PIPING \_\_\_\_\_  
ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM fan alluvium, into a  
collection box; water is carried by  
underground steel pipe to a cattle trough.

ROCK DATA:

TYPE (SURFACE) alluvium  
COLOR light brown  
GRAIN SIZE sand, gravel  
MEGASCOPIC MINERALS predominantly quartz.

SALT:

TYPE mixed CaCO<sub>3</sub>, NaCl  
QUANTITY slight  
COLOR white  
FORM efflorescence

gts + occ. bt phenocrysts.

ALTERATION none

SINTER:

TYPE NONE  
QUANTITY \_\_\_\_\_  
COLOR \_\_\_\_\_  
FORM \_\_\_\_\_

RX TYPE (AT DEPTH) rhyolite porphyry.

WATER USED FOR stock

IMMEDIATE AREA  
USED FOR

nothing at spring itself.

stock at end of aqueduct

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION intersection of gw table w/ land surface

PROPERTY OWNED BY \_\_\_\_\_

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15659 Date 30 JUN Time 5:30

Name UPPER WARM SPRING Location: Co. NYE State NV

Sec. SW 1/4 21 Twp. 8N R. 50E; 29 km(mi) NW OF milepost 35 of US 63

Lat. 38° 31.5' Long. 116° 28' Elevation 6135 Quad. LITTLE FISH LAKE

Sampler J. PONSECK

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

DESCRIPTION:

WATER TEMP. °C 36

DISCHARGE 20 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 31

DEPTH \_\_\_\_\_

ODOR none

BORE \_\_\_\_\_

FLUID COLOR none

PUMP TYPE \_\_\_\_\_

FLUID TASTE \_\_\_\_\_

STATIC HEAD \_\_\_\_\_

BUBBLING yes - occ. streams of bubbles SCALING issue.

BOILING no

TYPE OF PIPING \_\_\_\_\_

VEGETATION green algae

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM silty alluvium

ROCK DATA:

TYPE (SURFACE) Qal

COLOR light brown

GRAIN SIZE silt/clay

MEGASCOPIC MINERALS no

SALT:

TYPE CaCO3

QUANTITY very slight

COLOR white/tan

FORM efflorescence

ALTERATION no Paleozoic carb. even deeper

SINTER:

TYPE None

RX TYPE (AT DEPTH) Tertiary volcanics + volcaniclastics.

QUANTITY \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA stock

COLOR \_\_\_\_\_

USED FOR stock

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION fault/fracture

PROPERTY OWNED BY private, I think

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_



This spring lies just outside the Tonopah AMS, but I did it anyway, w/o having the map available

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15660 Date 3 JULY Time 9<sup>30</sup>  
Name PEDRO SPRING Location: Co. NVG State NEVADA  
Sec. 28 NW 1/4 Twp. 2N R. 50E ; 14 km(mi) 5 OF WARM SPRING, NV.  
Lat. 37° 59.9' Long. 116° 23' Elevation 626440 Quad. KAWICH PEAK 1:62.5K  
Sampler J. FONSECA

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

DESCRIPTION:

WATER TEMP. °C 27.5°  
GROUND TEMP. °C \_\_\_\_\_  
AIR TEMP. 29 in the shade  
ODOR NONE  
FLUID COLOR NONE  
FLUID TASTE NONE  
BUBBLING YES - occasionally  
BOILING NO  
VEGETATION greasewood, grass, roses

DISCHARGE 20  
30 (gpm)/Lpm

WELL DATA:

DEPTH \_\_\_\_\_  
BORE \_\_\_\_\_  
PUMP TYPE \_\_\_\_\_  
STATIC HEAD \_\_\_\_\_  
SCALING \_\_\_\_\_  
TYPE OF PIPING \_\_\_\_\_  
ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM Soil + colluvium at base of bedrock ridge (see sketch on reverse)

ROCK DATA:

TYPE (SURFACE) rhyolite porphyry  
COLOR pink  
GRAIN SIZE MEGASCOPIC MINERALS porphyritic gtz, some fsp

SALT:

TYPE CaCO<sub>3</sub>  
QUANTITY slight  
COLOR white  
FORM thin film on rocks or in soil

ALTERATION NO  
RX TYPE (AT DEPTH) same

SINTER:

TYPE NO  
QUANTITY \_\_\_\_\_  
COLOR \_\_\_\_\_  
FORM \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA USED FOR stock  
stock

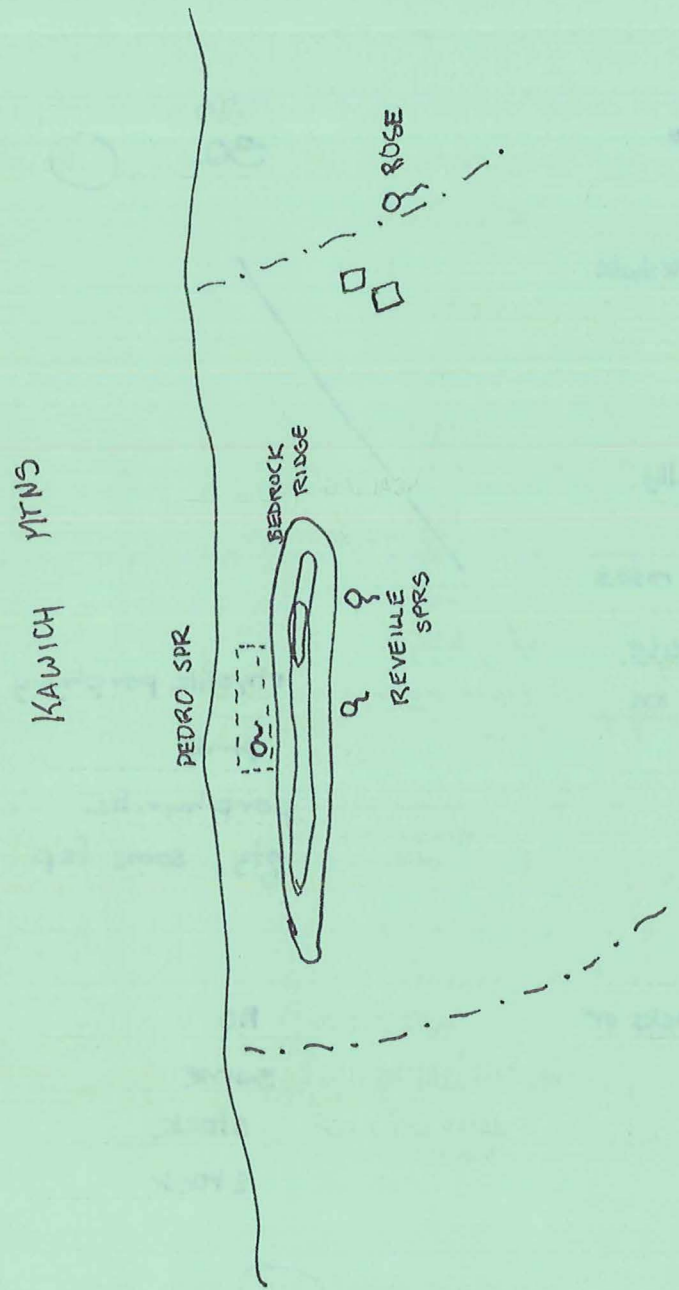
PROBABLE CAUSE OF MANIFESTATION fault or fracture related

PROPERTY OWNED BY Unknown

PREVIOUS AND/OR CURRENT LEASES Unknown

QUALITY OF SAMPLE (EXC.) GOOD, POOR

ACCORDING TO THERMAL WATERS, ROSE SPR IS SLIGHTLY WARMER ^ BUT ITS FLOW WAS MORE SPREAD OUT + CONTAMINATED BY CATTLE. + LARGER Q THAN PEDRO



Pedro Spring is surrounded by a broken-down barbed wire fence

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15661 Date 3 July Time 4:30 - 5:00

Name HYDRE SPRING Location: Co. NYE State NV

Sec. 8 Twp. 22N R. 52E; 3.5 km(mi) W OF HWY (25)

Lat. 38° 3.8' Long. 116° 9' Elevation 5850' Quad. REVELLE 7.5

Sampler J. FONSECA

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

DESCRIPTION:

WATER TEMP. °C 19 DISCHARGE 6-7 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_ WELL DATA:

AIR TEMP. 32° DEPTH \_\_\_\_\_

ODOR decaying rabbit (in cow trough) BORE \_\_\_\_\_

FLUID COLOR none PUMP TYPE \_\_\_\_\_

FLUID TASTE unknown STATIC HEAD \_\_\_\_\_

BUBBLING no SCALING \_\_\_\_\_

BOILING no TYPE OF PIPING \_\_\_\_\_

VEGETATION apple tree ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM pipe. seep ROCK DATA:

adjacent, in streambed TYPE (SURFACE) Qal

COLOR med brown

GRAIN SIZE sand

MEGASCOPIC MINERALS qtz, fsp, plag.

SALT:

TYPE None

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_ ALTERATION \_\_\_\_\_

SINTER:

TYPE none RX TYPE (AT DEPTH) Tertiary rhyolites + Late Tertiary basalt or basaltic andesite

QUANTITY \_\_\_\_\_ WATER USED FOR IMMEDIATE AREA stock

COLOR \_\_\_\_\_ USED FOR corral

FORM \_\_\_\_\_ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION groundwater table

PROPERTY OWNED BY unknown

PREVIOUS AND/OR CURRENT LEASES unknown

"HOT WELL"

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

BLM Project # 236

Spring No. \_\_\_\_\_ Sample No. W15662 Date 11 JULY 84 Time 5<sup>00</sup> PM

Name MT. ANNA HOT WELL Location: Co. NVE State NV.

Sec. SW 1/4 SW 1/4 17 Twp. 13N R. 34E; \_\_\_\_\_ km/mi \_\_\_\_\_ OF \_\_\_\_\_

Lat. 38° 59' Long. 118° 11' Elevation 4432 ft Quad. MOUNT ANNIE

Sampler J. FONSECA

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

DESCRIPTION:

ran for 10-15 min

WATER TEMP. °C 68°

DISCHARGE MAX ~ 30 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA: outside pipe

AIR TEMP. 33°

CORROSION DEPTH 300'

ODOR none

BORE 6"

FLUID COLOR slightly grayish

PUMP TYPE jack leg

FLUID TASTE \_\_\_\_\_

STATIC HEAD 250'

BUBBLING no

SCALING little

BOILING no

TYPE OF PIPING 3"

VEGETATION no

ARTESIAN HEAD none

FLUID ISSUES FROM well

ROCK DATA:

TYPE (SURFACE) Quaternary alluvium

COLOR sand

GRAIN SIZE light - med brown

MEGASCOPIC MINERALS mostly quartz

SALT: NONE VISIBLE

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION none in mtn range behind well, but further S there are altered Tertiary volcanics

SINTER: NONE VISIBLE

RX TYPE (AT DEPTH) \_\_\_\_\_

TYPE \_\_\_\_\_

WATER USED FOR stock

QUANTITY \_\_\_\_\_

IMMEDIATE AREA USED FOR stock

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE. EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION fault / fracture

PROPERTY OWNED BY U.S. Government

PREVIOUS AND/OR CURRENT LEASES water rights by Harry Brown

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15663 Date 12 July Time 12<sup>30</sup>  
Name WARM SPRING Location: Co. NYE State NV  
Sec. SE 1/4 14 Twp. 10N R. 49E; 42 km/mi ~~1/2~~ N OF HWY 6 (by road)  
Lat. 38° 42' Long. 116° 26' Elevation 6540 Quad. UPPER FISH LAKE 7.5  
Sampler J. FONSECA

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

DESCRIPTION:

WATER TEMP. °C 39°  
GROUND TEMP. °C unknown  
AIR TEMP. 30°  
ODOR none (cows)  
FLUID COLOR clear  
FLUID TASTE unknown  
BUBBLING no  
BOILING no  
VEGETATION saltgrass

DISCHARGE 40 gpm/Lpm  
WELL DATA:  
DEPTH \_\_\_\_\_  
BORE \_\_\_\_\_  
PUMP TYPE \_\_\_\_\_  
STATIC HEAD \_\_\_\_\_  
SCALING \_\_\_\_\_  
TYPE OF PIPING \_\_\_\_\_  
ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM alluvium - surrounded by saltgrass

ROCK DATA:  
TYPE (SURFACE) sandy alluvium  
COLOR light brown  
GRAIN SIZE sand to cobble  
MEGASCOPIC MINERALS quartz, bt, plag

SALT:  
TYPE NONE  
QUANTITY \_\_\_\_\_  
COLOR \_\_\_\_\_  
FORM \_\_\_\_\_

ALTERATION none  
RX TYPE (AT DEPTH) Test XI tuff + Paleozoic quartzite  
WATER USED FOR IMMEDIATE AREA stock  
USED FOR grazing

SINTER:  
TYPE NONE  
QUANTITY \_\_\_\_\_  
COLOR \_\_\_\_\_  
FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION fracture-related  
PROPERTY OWNED BY BLM?  
PREVIOUS AND/OR CURRENT LEASES unknown.

~~6600~~  
180  
6800

$$\begin{array}{r} 85^{\circ}F \\ \underline{32} \\ 53 \cdot \frac{5}{9} = 30 \end{array}$$

BEECH KNAPP (herschel)  
 LIDA STAR ROUTE  
 BOX 54  
 VEA GOLDFIELD, NV  
 89013

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Midway Mining runs a gold operation -  
 they get a lot of natural amalgam,  
 i.e. native mercury in their  
 mill.

Spring No. \_\_\_\_\_ Sample No. W15664 Date 13 JULY Time 5<sup>00</sup>  
 Name MIDWAY MINING POND Location: Co. ESMERALDA State NV  
 Sec. 21, NW 1/4 Twp. 6S R. 39E; 1.3 km/mi S OF ROAD FROM LIDA  
 Lat. 37° 24' 30" Long. 117° 40' Elevation 6620 Quad. MAGRUDER MTN 15'  
 Sampler J. FONSECA

Sample Type: mining pond - never freezes over and supposedly  
~~Spring (with pipe), well (with pipe), creek, river, soil, salt, sinter,~~  
travertine, gas, rock, snow  
maintains temp ~ same during winter  
 DESCRIPTION: \_\_\_\_\_

WATER TEMP. °C 19° AT 3' DEEP. 25° SURFACE. DISCHARGE 30-40 gpm/Lpm into overflow pond.

GROUND TEMP. °C \_\_\_\_\_ WELL DATA: POND

AIR TEMP.	<u>30°</u>	DEPTH	<u>30 FT.</u>
ODOR	<u>none</u>	BORE	/
FLUID COLOR	<u>clear</u>	PUMP TYPE	/
FLUID TASTE	<u>unknown</u>	STATIC HEAD	/
BUBBLING	<u>NO-</u>	SCALING	/
BOILING	<u>NO</u>	TYPE OF PIPING	/
VEGETATION	<u>green + yellow algae</u>	ARTESIAN HEAD	/

FLUID ISSUES FROM mining pond, dug  
~1978, about 30' deep (maximum  
at one end).

ROCK DATA:  
 TYPE (SURFACE) alluvium  
 COLOR white to orange

SALT:  
 TYPE NO  
 QUANTITY \_\_\_\_\_  
 COLOR \_\_\_\_\_  
 FORM \_\_\_\_\_

GRAIN SIZE gravel to boulders  
 MEGASCOPIC MINERALS quartz, silica, calcite  
 ALTERATION silicification, limonite

SINTER:  
 TYPE NO  
 QUANTITY \_\_\_\_\_  
 COLOR \_\_\_\_\_  
 FORM \_\_\_\_\_

RX TYPE (AT DEPTH) limestone, vitric lithic tuff,  
 WATER USED FOR IMMEDIATE AREA mining  
 USED FOR mining  
 QUALITY OF SAMPLE: (EXC.), GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION groundwater table  
 PROPERTY OWNED BY Midway Mining Co  
 PREVIOUS AND/OR CURRENT LEASES Midway Mining Co.

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15667 Date 19 July Time 12<sup>00</sup>

Name SAND SPR Location: Co. INYO State CA

Sec. 7 Twp. 9S R. 41E ; \_\_\_\_\_ km/mi \_\_\_\_\_ OF \_\_\_\_\_

Lat. 37°12' Long. 117°33' Elevation 3130 Quad. LAST CHANCE RANGE

Sampler J. FONSECA

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

DESCRIPTION: 22 in adjacent well

WATER TEMP. °C 28 in pond at surface RECHARGE \_\_\_\_\_ gpm 1 L per

GROUND TEMP. °C unknown

WELL DATA:

AIR TEMP. 35°

DEPTH \_\_\_\_\_

ODOR decaying veg.

BORE \_\_\_\_\_

FLUID COLOR slightly yellow

PUMP TYPE \_\_\_\_\_

FLUID TASTE unknown

STATIC HEAD \_\_\_\_\_

BUBBLING no

SCALING \_\_\_\_\_

BOILING no

TYPE OF PIPING \_\_\_\_\_

VEGETATION reeds.

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM pool 10m and 7m  
across.

ROCK DATA:  
TYPE (SURFACE) alluvium

COLOR dark gray

SALT:

GRAIN SIZE sand to clay

TYPE NaCl + CaCO<sub>3</sub> + CaSO<sub>4</sub>·nH<sub>2</sub>O?

MEGASCOPIC MINERALS qtz, fsp.

QUANTITY slight

COLOR white

FORM crusts on soil

ALTERATION no  
RX TYPE (AT DEPTH) lacustrine + alluvial basin fill  
uplifted along fault.

SINTER:

TYPE NO

WATER USED FOR IMMEDIATE AREA nothing  
USED FOR nothing

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION fault - - may have s-slip component

PROPERTY OWNED BY BLM

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

BLM + biological study area



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15668 Date 22 JULY 84 Time 1:30  
Name LOWER PIZONA SPRS Location: Co. MONO State CA  
Sec. 4 Twp. 1N R. 31E; 1.0 km(mi) SW OF state border  
Lat. 37° 54' Long. 118° 33' Elevation 7000 Quad. GLASS MOUNTAIN 15'  
Sampler J. FONSECA

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

DESCRIPTION:

WATER TEMP. °C 24° DISCHARGE 70 (gpm/Lpm)  
GROUND TEMP. °C unknown WELL DATA:  
AIR TEMP. 28° DEPTH \_\_\_\_\_  
ODOR none BORE \_\_\_\_\_  
FLUID COLOR none PUMP TYPE \_\_\_\_\_  
FLUID TASTE unknown STATIC HEAD \_\_\_\_\_  
BUBBLING no SCALING \_\_\_\_\_  
BOILING no TYPE OF PIPING \_\_\_\_\_  
VEGETATION grasses ARTESIAN HEAD \_\_\_\_\_  
FLUID ISSUES FROM seeps in Qal. ROCK DATA:

TYPE (SURFACE) Qal  
COLOR med. brown  
GRAIN SIZE sand  
MEGASCOPIC MINERALS glass shards, qtz, lithic fragments  
ALTERATION no  
RX TYPE (AT DEPTH) pumiceous + scoriaceous volcanics  
SALT: TYPE NONE  
QUANTITY \_\_\_\_\_  
COLOR \_\_\_\_\_  
FORM \_\_\_\_\_  
WATER USED FOR IMMEDIATE AREA nothing  
USED FOR nothing: no longer accessible by road

SINTER: TYPE NONE  
QUANTITY \_\_\_\_\_  
COLOR \_\_\_\_\_  
FORM \_\_\_\_\_  
QUALITY OF SAMPLE: (EXC.), GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION fracture-related  
PROPERTY <sup>managed</sup> OWNED BY Forest Service  
PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15669 Date 22 JULY 84 Time 5<sup>00</sup> PM

Name WELL ON YELLOW JACKET ROAD Location: Co. MONO State CA

Sec. 11 ~~N~~ <sup>NE</sup> ~~1/4~~ Twp. 2S R. 31E ; .6 km(mi) SE OF Benton H.S.

Lat. 37° 48' Long. 118° 32' Elevation 5680' Quad. GLASS MTN 15'

Sampler J. FONSECA

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

DESCRIPTION:

WATER TEMP. °C 23°

DISCHARGE 100's or 1000's gpm/Lpm

GROUND TEMP. °C unknown

WELL DATA:

AIR TEMP. 24°

DEPTH 200

ODOR none

BORE unknown

FLUID COLOR none

PUMP TYPE unknown

FLUID TASTE none

STATIC HEAD unknown

BUBBLING no

SCALING unknown

BOILING no

TYPE OF PIPING unknown

VEGETATION N/A

ARTESIAN HEAD NONE

FLUID ISSUES FROM steel pipe w/ hose attached

ROCK DATA:

TYPE (SURFACE) Qal

COLOR light brown, white or pinkish

GRAIN SIZE sand

MEGASCOPIC MINERALS pumice frags, gbs, fsp

SALT:

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION none

SINTER:

TYPE \_\_\_\_\_

RX TYPE (AT DEPTH) pumice deposits nearby - pink rhyolite too.

QUANTITY \_\_\_\_\_

WATER USED FOR drinking water

COLOR \_\_\_\_\_

IMMEDIATE AREA USED FOR real estate development

FORM \_\_\_\_\_

QUALITY OF SAMPLE: (EXC), GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION \_\_\_\_\_

PROPERTY OWNED BY \_\_\_\_\_

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

80  
6000  
320  
5680

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15670 Date 23 JULY 81 Time 11<sup>45</sup> AM

Name WATER FROM COMANCHE MINE TUNNEL Location: Co. MOND State CA

Sec. 17 Twp. 2S R. 32E ; 0.5 km(mi) W OF HWY 6.

Lat. 37° 43.5' Long. 118° 28' Elevation 5520 FT Quad. BENTON

Sampler J. FONSECA

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

DESCRIPTION:

WATER TEMP. °C 20

DISCHARGE 10 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA: \_\_\_\_\_

AIR TEMP. 27°

DEPTH N/A

ODOR none

BORE \_\_\_\_\_

FLUID COLOR none

PUMP TYPE \_\_\_\_\_

FLUID TASTE unknown

STATIC HEAD \_\_\_\_\_

BUBBLING no

SCALING \_\_\_\_\_

BOILING no

TYPE OF PIPING \_\_\_\_\_

VEGETATION watercress, green algae.

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM mine tunnel which <sup>used to</sup> go ~~out~~ entirely through Blind Springs Hill, but is now partly caved in.

ROCK DATA: \_\_\_\_\_

TYPE (SURFACE) biotite granite

COLOR gray

GRAIN SIZE phaneritic

MEGASCOPIC MINERALS biotite, quartz,

white fsp (orthoclase?)

SALT:

TYPE NONE

ALTERATION None.

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

RX TYPE (AT DEPTH) same

SINTER:

TYPE NONE

WATER USED FOR IMMEDIATE AREA nothing

QUANTITY \_\_\_\_\_

USED FOR mine tailings.

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE EXC. GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION fractures w/in Blind Spring Hill

PROPERTY OWNED BY claimed (in part) by John Salk, Benton Hot Spr.

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15672 Date 23 JULY 84 Time 4:16

Name WATERSON MEADOW SPRS Location: Co. MONO State CA

Sec. 20 SW/4 Twp. 25 R. 31E ; .4 km/(mi) SE OF owen's river road.

Lat. 37° 45' Long. 118° 35' Elevation 6880 Quad. GLASS MTN 15'

Sampler J. FONSECA

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

DESCRIPTION:

WATER TEMP. °C 19°

DISCHARGE 25 (gpm)/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 25°

DEPTH \_\_\_\_\_

ODOR none

BORE \_\_\_\_\_

FLUID COLOR none

PUMP TYPE \_\_\_\_\_

FLUID TASTE unknown

STATIC HEAD \_\_\_\_\_

BUBBLING no

SCALING \_\_\_\_\_

BOILING no

TYPE OF PIPING \_\_\_\_\_

VEGETATION wild iris, saltgrass or other grass

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM many springs +

ROCK DATA:

coalesces into a major channel

TYPE (SURFACE) granodiorite w/ large

COLOR fsp phenocrysts gray + pink

SALT:

GRAIN SIZE porphyritic

TYPE NONE

MEGASCOPIC MINERALS qtz, fsp.

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION none

SINTER:

RX TYPE (AT DEPTH) some

TYPE NONE

WATER USED FOR stock

QUANTITY \_\_\_\_\_

IMMEDIATE AREA USED FOR nothing

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: (EXC.), GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION bedrock barrier or intersection of gw table w/ land surface

PROPERTY OWNED BY Forest Service

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15673 Date <sup>24</sup>~~20~~ JULY 84 Time 4:30 PM

Name WATKERSON TROUGHS Location: Co. MONO State CA

Sec. 22 Twp. 3S R. 30E ; 5.5 km(mi) W OF LAKE CROWLEY

Lat. 37° 41' Long. 118° 39.5 Elevation 7720 Quad. CASA DIABLO MTN

Sampler J. FONSECA

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

DESCRIPTION:

WATER TEMP. °C 26°

DISCHARGE 40 (gpm)/Lpm

GROUND TEMP. °C unknown

WELL DATA:

AIR TEMP. 27°

DEPTH \_\_\_\_\_

ODOR none

BORE \_\_\_\_\_

FLUID COLOR none

PUMP TYPE \_\_\_\_\_

FLUID TASTE unknown

STATIC HEAD \_\_\_\_\_

BUBBLING no

SCALING \_\_\_\_\_

BOILING no

TYPE OF PIPING \_\_\_\_\_

VEGETATION grasses

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM colluvium + alluvium

ROCK DATA:

TYPE (SURFACE) Qal, but thin over bedrock which is a densely welded tuff  
bedrock COLOR gray

SALT:

GRAIN SIZE porphyritic-aphanitic  
MEGASCOPIC MINERALS vitric glass shards, + many gts + fsp xls visible.

TYPE NONE

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION no

SINTER:

NONE

RX TYPE (AT DEPTH) granite + diorite overlain by xl tuff.

TYPE \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA stock

QUANTITY \_\_\_\_\_

USED FOR grazing

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION fracture-related

PROPERTY OWNED BY <sup>MANAGED</sup> Nat'l Forest Service

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15674 Date 29 JULY 84 Time 1<sup>00</sup>

Name S<sup>1</sup>/<sub>2</sub> PIUTE SPRING Location: Co. MONO State CA

Sec. 11 Twp. 5S R. 33E ; 2.5 km/(mi) E OF HWY 6

Lat. 37° 31' Long. 118° 19' Elevation 5200 Quad. WHITE MTN PEAK

Sampler J. FONSECA

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

DESCRIPTION:

WATER TEMP. °C 21°

DISCHARGE 6-8 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 31°

DEPTH \_\_\_\_\_

ODOR none

BORE \_\_\_\_\_

FLUID COLOR clear but lots of brown algae

PUMP TYPE \_\_\_\_\_

FLUID TASTE unknown

STATIC HEAD \_\_\_\_\_

BUBBLING no

SCALING \_\_\_\_\_

BOILING no

TYPE OF PIPING \_\_\_\_\_

VEGETATION willow, rose, cattail

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM spring in Dal in riverbed.

ROCK DATA:

TYPE (SURFACE) Dal

COLOR light brown

GRAIN SIZE sand - cobble

MEGASCOPIC MINERALS qtz, fsp

SALT:

TYPE CaCO<sub>3</sub>

QUANTITY slight

COLOR white

FORM efflorescence

ALTERATION limonitic

SINTER:

TYPE None

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

RX TYPE (AT DEPTH) phyllite, upstream is

biotite + sulfide-rich granite

WATER USED FOR nothing

IMMEDIATE AREA

USED FOR nothing

QUALITY OF SAMPLE: EXC., GOOD Needs filtering POOR

PROBABLE CAUSE OF MANIFESTATION unknown

PROPERTY OWNED BY unknown

PREVIOUS AND/OR CURRENT LEASES unknown

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15675 Date 30 JULY 84 Time 9:30 AM

Name DEER SPRING Location: Co. MONO State CA

Sec. 24 SW 1/4 Twp. 35 R. 30 E; 7 km(mi) E OF LAKE CROWLEY

Lat. 37° 40.5' Long. 118° 37' Elevation 7530' Quad. USA DIABLO

Sampler J. FONSECA

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

WATER FROM SPRING SUPPLIES TWO FIBER GLASS TANKS DOWN STREAM. SAMPLE FROM OVERFLOWING WATER IN 1ST TANK.

DESCRIPTION:

WATER TEMP. °C 22°

DISCHARGE 0 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 29°

DEPTH \_\_\_\_\_

ODOR none

BORE \_\_\_\_\_

FLUID COLOR none

PUMP TYPE \_\_\_\_\_

FLUID TASTE none

STATIC HEAD \_\_\_\_\_

BUBBLING no

SCALING \_\_\_\_\_

BOILING no

TYPE OF PIPING black plastic (PVC)

VEGETATION no willows

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM Qal in stream bottom, but was sampled from overflowing tank < 1 mi down-stream.

ROCK DATA:

TYPE (SURFACE) Qal

COLOR med brown

GRAIN SIZE sand

MEGASCOPIC MINERALS gtz fsp mica

SALT: TYPE NO

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION none

SINTER:

RX TYPE (AT DEPTH) ash flow tuff + granite

TYPE NO

WATER USED FOR IMMEDIATE AREA cattle

QUANTITY \_\_\_\_\_

USED FOR cattle

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION unknown

PROPERTY OWNED BY Inyo Nat'l Forest

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15676 Date 30 July Time 4:00 PM  
 Name MARIN SPRING Location: Co. MONO State CA  
 Sec. SW 1/4 33 Twp. 8S R. 33E; 2 km/mi W OF Hwy 395  
 Lat. 37° 13' Long. 118° 22' Elevation 4400 Quad. BIG PINE QUAD  
 Sampler J. FONSECA

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

DESCRIPTION:

WATER TEMP. °C 20 DISCHARGE 100 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_ WELL DATA:

AIR TEMP. <u>27</u>	DEPTH _____
ODOR <u>none</u>	BORE _____
FLUID COLOR <u>none</u>	PUMP TYPE _____
FLUID TASTE <u>none</u>	STATIC HEAD _____
BUBBLING <u>no</u>	SCALING _____
BOILING <u>no</u>	TYPE OF PIPING _____
VEGETATION <u>grass, wild berries</u>	ARTESIAN HEAD _____

FLUID ISSUES FROM channel from spring uphill, then goes into pipes or spreads out over pasture

ROCK DATA:  
 TYPE (SURFACE) granite  
 COLOR gray  
 GRAIN SIZE phaneritic - medium  
 MEGASCOPIC MINERALS qtz ~~fsp~~ fsp

SALT:  
 TYPE NONE  
 QUANTITY \_\_\_\_\_  
 COLOR \_\_\_\_\_  
 FORM \_\_\_\_\_

ALTERATION little  
 RX TYPE (AT DEPTH) same  
 WATER USED FOR IMMEDIATE AREA stock  
 USED FOR stock

SINTER:  
 TYPE NONE  
 QUANTITY \_\_\_\_\_  
 COLOR \_\_\_\_\_  
 FORM \_\_\_\_\_

QUALITY OF SAMPLE: (EXC), GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION fault-related  
 PROPERTY OWNED BY City of Los Angeles  
 PREVIOUS AND/OR CURRENT LEASES City of Los Angeles Mr Marin



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Just west of perlite mine

Spring No. \_\_\_\_\_ Sample No. W15677 Date 31 JULY Time 12<sup>00</sup>

Name PERLITE MINE SPRINGS Location: Co. INYO State CA

Sec. 30 Twp. 10S R. 33E : 1.6 km(mi) W OF Poverty Hills

Lat. 37° 03.7' Long. 118° 17' Elevation 4730 Quad. BIG PINE 15'

Sampler J. FONSECA

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

DESCRIPTION:

WATER TEMP. °C 22

*combined*  
DISCHARGE 70 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 28

DEPTH \_\_\_\_\_

ODOR none

BORE \_\_\_\_\_

FLUID COLOR none

PUMP TYPE \_\_\_\_\_

FLUID TASTE unknown

STATIC HEAD \_\_\_\_\_

BUBBLING yes, prob CO2 from veg tho

SCALING \_\_\_\_\_

BOILING \_\_\_\_\_

TYPE OF PIPING \_\_\_\_\_

VEGETATION \_\_\_\_\_

ARTESIAN HEAD \_\_\_\_\_

Sample is a composite of water from two springs

FLUID ISSUES FROM seeping ground at base of silicic dome (perlite mine)

ROCK DATA:

TYPE (SURFACE) Qal

COLOR med br

GRAIN SIZE fine sand

MEGASCOPIC MINERALS qtz fip, rock fragments

SALT:

TYPE no

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION none

SINTER:

TYPE no

RX TYPE (AT DEPTH) perlite, granite

QUANTITY \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA nothing  
USED FOR nothing

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION gw table intersection w/ surface

PROPERTY OWNED BY \_\_\_\_\_

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15678 Date 1 AUG 84 Time 400 PM

Name BORON SPR Location: Co. INYO State CA

Sec. 22 Twp. 13S R. 34E; km/mi \_\_\_\_\_ OF \_\_\_\_\_

Lat. 36° 47' Long. 118° 16' Elevation 5160 Quad. MT PINCHOT 15'

Sampler J. FONSECA

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

DESCRIPTION:

WATER TEMP. °C 15

DISCHARGE 10 - 15 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 24

DEPTH \_\_\_\_\_

ODOR none

BORE \_\_\_\_\_

FLUID COLOR none

PUMP TYPE \_\_\_\_\_

FLUID TASTE unknown

STATIC HEAD \_\_\_\_\_

BUBBLING no

SCALING \_\_\_\_\_

BOILING no

TYPE OF PIPING \_\_\_\_\_

VEGETATION Watercress, grass

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM pool in colluvium

ROCK DATA:

TYPE (SURFACE) Qal

COLOR med brown

GRAIN SIZE sand - silt

MEGASCOPIC MINERALS qtz fsp mica

SALT:

TYPE NONE

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION epidote

SINTER:

RX TYPE (AT DEPTH) granite

TYPE NONE

WATER USED FOR IMMEDIATE AREA nothing

QUANTITY \_\_\_\_\_

USED FOR nothing

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC, GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION fracture

PROPERTY OWNED BY Ned's Forest

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15679 Date 3 AUG Time 12<sup>30</sup> PM

Name NONE Location: Co. INYO State CA

Sec. 1 NE1/4 Twp. 13S R. 35E; 3 km/mi N OF KEARSAGE, CA

Lat. 36°52' Long. 118°06' Elevation 4470 Quad. INDEPENDENCE

Sampler J. FONSECA

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

DESCRIPTION:

WATER TEMP. °C 25 DISCHARGE 6 gpm/Lpm 6

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 33

DEPTH \_\_\_\_\_

ODOR None

BORE \_\_\_\_\_

FLUID COLOR none

PUMP TYPE \_\_\_\_\_

FLUID TASTE unknown

STATIC HEAD \_\_\_\_\_

BUBBLING no

SCALING \_\_\_\_\_

BOILING no

TYPE OF PIPING \_\_\_\_\_

VEGETATION greasewood, rabbitbrush

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM pipe from buried collection box in gully.

ROCK DATA:

TYPE (SURFACE) diorite - granodiorite

COLOR pinkish

GRAIN SIZE 1-3 mm (phaneritic)

MEGASCOPIC MINERALS white + pink fsp (ortho + plag), gr hb, qtz.

SALT:

*exposed in gully. No longer active deposition. only slight scaling on pipe.*

TYPE CaCO<sub>3</sub> (travertine)

QUANTITY abundant

COLOR white

FORM laminated, botryoidal, massive etc.

ALTERATION epidote, Cu, limonite

SINTER:

RX TYPE (AT DEPTH) same

TYPE \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA stock

QUANTITY \_\_\_\_\_

USED FOR mining

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION fracture

PROPERTY OWNED BY \_\_\_\_\_

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15680 Date 5 AUG 84 Time 10<sup>30</sup>  
 Name 33, SE 1/4 Location: Co. INYO State CA  
 Sec. 33, SE 1/4 Twp. 9S R. 34E; 3.5 km/mi SE OF BIG PINE  
 Lat. 37° 07' Long. 118° 15.5' Elevation 3900' Quad. BIG PINE 15'  
 Sampler J. FONSECA

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

DESCRIPTION:

WATER TEMP. °C 22 after several minutes DISCHARGE 10 gpm/Lpm  
 GROUND TEMP. °C \_\_\_\_\_ WELL DATA:  
 AIR TEMP. 31 DEPTH unknown  
 ODOR none BORE 12"  
 FLUID COLOR none PUMP TYPE submersible  
 FLUID TASTE none STATIC HEAD unknown  
 BUBBLING No SCALING none visible  
 BOILING NO TYPE OF PIPING \_\_\_\_\_  
 VEGETATION NO ARTESIAN HEAD none  
 FLUID ISSUES FROM plastic hose w/ faucet ROCK DATA:  
directly on top of casing TYPE (SURFACE) Qal  
 COLOR light brown  
 GRAIN SIZE Sand  
 MEGASCOPIC MINERALS qtz fsp  
+ dark basaltic lava  
 fragments  
 ALTERATION no  
 RX TYPE (AT DEPTH) granite intruded by basalt  
dikes  
 WATER USED FOR IMMEDIATE AREA domestic/parking lot  
 USED FOR housing  
 SALT: TYPE NO QUANTITY \_\_\_\_\_ COLOR \_\_\_\_\_ FORM \_\_\_\_\_  
 SINTER: TYPE NO QUANTITY \_\_\_\_\_ COLOR \_\_\_\_\_ FORM \_\_\_\_\_  
 QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION \_\_\_\_\_  
 PROPERTY OWNED BY \_\_\_\_\_  
 PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15682 Date 7 AUG 84 Time 12:00

Name WILLOW CREEK SPRING Location: Co. NYO State \_\_\_\_\_

Sec. 2 NW/4 Twp. 13S R. 37E ; \_\_\_\_\_ km/mi \_\_\_\_\_ OF \_\_\_\_\_

Lat. 36 50.5 Long. 117 55 Elevation 2500 Quad. WAUCOBA WASH

Sampler J. FONSECA

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

*has pipe but I sampled above pipe where water issues from stream bed*

DESCRIPTION:

WATER TEMP. °C 25

DISCHARGE 30 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 39

DEPTH \_\_\_\_\_

ODOR NONE

BORE \_\_\_\_\_

FLUID COLOR NONE

PUMP TYPE \_\_\_\_\_

FLUID TASTE NONE

STATIC HEAD \_\_\_\_\_

BUBBLING NO

SCALING \_\_\_\_\_

BOILING NO

TYPE OF PIPING \_\_\_\_\_

VEGETATION WILLOWS, MESQUITE

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM STREAM BED

ROCK DATA:

TYPE (SURFACE) Gal

bedrock COLOR white-pinkish gray

GRAIN SIZE sand + gravel

MEGASCOPIC MINERALS qtz fsp lt

SALT:

TYPE NO

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION NO

SINTER:

RX TYPE (AT DEPTH) granite

TYPE NO

WATER USED FOR IMMEDIATE AREA domestic use

QUANTITY \_\_\_\_\_

USED FOR nothing

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION \_\_\_\_\_

PROPERTY OWNED BY \_\_\_\_\_

PREVIOUS AND/OR CURRENT LEASES JIM HAY

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W1568.3 Date 8 AUG 84 Time 10<sup>00</sup>  
 Name DOLOMITE WELL Location: Co. INYO State CA  
 Sec. 10 SW/4 Twp. 16S R. 37E ; 6 km/mi NW OF Keeler  
 Lat. 36° 33.7' Long 117° 56' Elevation 3675 Quad. NEW YORK BUTTE  
 Sampler J. FONSECA

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

DESCRIPTION:

WATER TEMP. °C	<u>25</u>	DISCHARGE	<u>20</u> gpm/Lpm
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>35</u>	DEPTH	<u>~95 ft</u>
ODOR	<u>NONE</u>	BORE	<u>8"</u>
FLUID COLOR	<u>NONE</u>	PUMP TYPE	<u>unknown</u>
FLUID TASTE	<u>NONE</u>	STATIC HEAD	<u>~20 ft</u>
BUBBLING	<u>NO</u>	SCALING	<u>none visible</u>
BOILING	<u>NO</u>	TYPE OF PIPING	<u>steel</u>
VEGETATION	<u>NONE</u>	ARTESIAN HEAD	<u>no.</u>
FLUID ISSUES FROM	<u>faucet from well</u>	ROCK DATA:	

		TYPE (SURFACE)	<u>Qal</u>
		COLOR	<u>light br</u>
		GRAIN SIZE	<u>sand</u>
		MEGASCOPIC MINERALS	<u>dolomite</u>
SALT:		ALTERATION	<u>metamorphosed, text.</u>
TYPE	<u>NO</u>	RX TYPE (AT DEPTH)	<u>dolomite</u>
QUANTITY	_____	WATER USED FOR IMMEDIATE AREA	<u>domestic</u>
COLOR	_____	USED FOR	<u>domestic + mining</u>
FORM	_____	QUALITY OF SAMPLE:	<u>EXC., GOOD, POOR</u>

SINTER:

TYPE NO

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

PROBABLE CAUSE OF MANIFESTATION unknown

PROPERTY OWNED BY unknown

PREVIOUS AND/OR CURRENT LEASES INYO MARBLE

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W158684 Date 10 AUG 84 Time 10<sup>00</sup> AM  
Name SALT WELL Location: Co. SAN BERNARDINO State CA  
Sec. 17, NW 1/4 Twp. 26S R. 43E; 08 km/mi SE OF HWY 178 <sup>end of</sup>  
Lat. 35° 40.5' Long. 117° 23' Elevation 1650 Quad. WESTEND 15'  
Sampler J. FONSECA

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

DESCRIPTION:

WATER TEMP. °C 24 DISCHARGE 400 gpm/Lpm  
GROUND TEMP. °C \_\_\_\_\_ WELL DATA:  
AIR TEMP. 29 DEPTH 140'-180'  
ODOR v. strong H<sub>2</sub>S BORE 10"  
FLUID COLOR none PUMP TYPE diesel  
FLUID TASTE salty STATIC HEAD unknown  
BUBBLING no SCALING dep of salt  
BOILING no TYPE OF PIPING flows into canal  
VEGETATION no ARTESIAN HEAD none  
FLUID ISSUES FROM pipe ROCK DATA:

TYPE (SURFACE) Qal  
COLOR white - light brown  
GRAIN SIZE silt  
MEGASCOPIC MINERALS \_\_\_\_\_

SALT:

TYPE NaCl predominantly  
QUANTITY abundant  
COLOR white  
FORM encrustation ALTERATION ANDESITE PORPHYRY  
RX TYPE (AT DEPTH) \_\_\_\_\_

SINTER:

TYPE NONE  
QUANTITY \_\_\_\_\_ WATER USED FOR IMMEDIATE AREA NaCl evap  
COLOR \_\_\_\_\_ USED FOR railroad right of way  
FORM \_\_\_\_\_ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION \_\_\_\_\_  
PROPERTY OWNED BY Leslie Salt  
PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15685 Date 11 AUG Time 1:20 PM  
Name MIRACLE HOT SPRINGS Location: Co. KERN State CA  
Sec. SE 1/4 16 Twp. 27S R. 32E ; 0.5 km(mi) S OF Cal (178)  
Lat. 36° 34.5' Long. 118° 32' Elevation 2370' Quad. MIRACLE HOT SPR 7.5'  
Sampler J. FONSECA

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

DESCRIPTION:

WATER TEMP. °C 52 DISCHARGE 20 gpm/Lpm  
GROUND TEMP. °C \_\_\_\_\_ WELL DATA:  
AIR TEMP. 37 DEPTH \_\_\_\_\_  
ODOR moderate H<sub>2</sub>S BORE \_\_\_\_\_  
FLUID COLOR clear PUMP TYPE \_\_\_\_\_  
FLUID TASTE unknown STATIC HEAD \_\_\_\_\_  
BUBBLING yes SCALING \_\_\_\_\_  
BOILING no TYPE OF PIPING \_\_\_\_\_  
VEGETATION trees ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM bedrock adjacent to Kern River, then into concrete/stone lined pools.

ROCK DATA:  
TYPE (SURFACE) bedrock granodiorite  
COLOR gray  
GRAIN SIZE phanitic  
MEGASCOPIC MINERALS qtz fsp ~~mus~~  
biotite

SALT:  
TYPE CaCO<sub>3</sub>  
QUANTITY slight  
COLOR tan  
FORM encrustation on

ALTERATION none

SINTER:  
TYPE \_\_\_\_\_  
QUANTITY \_\_\_\_\_  
COLOR \_\_\_\_\_  
FORM \_\_\_\_\_

RX TYPE (AT DEPTH) same  
WATER USED FOR IMMEDIATE AREA USED FOR bathing  
bathing

PROBABLE CAUSE OF MANIFESTATION fault/fracture  
PROPERTY OWNED BY Miracle Hot Spr.  
PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_  
QUALITY OF SAMPLE: EXC., GOOD, POOR



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15686 Date 11 Aug Time 2:30  
Name DEF LONEGHA SPRING Location: Co. KERN State CA  
Sec. 26, NE 1/4 Twp. 27S R. 31E; 1 km/mi below of Hwy (78)  
Lat. 35°34.4' Long. 118°37' Elevation 2120 Quad. MIRACLE HOT SPRINGS  
Sampler J. FONSECA

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

DESCRIPTION:

WATER TEMP. °C 47°

DISCHARGE 40 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 38°

DEPTH \_\_\_\_\_

ODOR moderate H<sub>2</sub>S

BORE \_\_\_\_\_

FLUID COLOR clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE unknown

STATIC HEAD \_\_\_\_\_

BUBBLING no

SCALING \_\_\_\_\_

BOILING no

TYPE OF PIPING \_\_\_\_\_

VEGETATION orange + green algae

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM gneissic grano-diorite bedrock immediately above Kern River

ROCK DATA:

TYPE (SURFACE) gneissic granodiorite

COLOR gray

GRAIN SIZE phaneritic

MEGASCOPIC MINERALS qtz biotite

fr. # alignment of biotite

SALT:

TYPE CaCO<sub>3</sub>

QUANTITY slight

COLOR tan

FORM encrustation

ALTERATION limonite dep in joints

SINTER:

TYPE limonite in joints

RX TYPE (AT DEPTH) \_\_\_\_\_

QUANTITY slight

WATER USED FOR IMMEDIATE AREA bathing

COLOR strong orange to brown

USED FOR river floodplain

FORM encrustation, plates

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION fault/fracture

PROPERTY OWNED BY Cal. Hwy Dept?

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15687 Date 12 AUG Time 3:30 PM

Name YATES HOT SPRING Location: Co. KERN State CA

Sec. 6, SE 1/4 Twp. 29S R. 33E; \_\_\_\_\_ km/mi \_\_\_\_\_ OF \_\_\_\_\_

Lat. 35° 26.5' Long. 118° 28' Elevation 3850' Quad. BRECKENRIDGE 15'

Sampler ~~\_\_\_\_\_~~ J. FONSECA

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

DESCRIPTION:

WATER TEMP. °C 37

DISCHARGE 10 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 35°

DEPTH \_\_\_\_\_

ODOR none

BORE \_\_\_\_\_

FLUID COLOR clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE unknown

STATIC HEAD \_\_\_\_\_

BUBBLING yes

SCALING \_\_\_\_\_

BOILING no

TYPE OF PIPING \_\_\_\_\_

VEGETATION green + orange algae

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM pool in Qal.

ROCK DATA:

TYPE (SURFACE) Qal

COLOR med br.

GRAIN SIZE sandy

MEGASCOPIC MINERALS gts bt musc.

SALT: very bitter tasting -

TYPE ~~NaCl~~ KCl?

QUANTITY slight

COLOR beige - white

FORM efflorescing

ALTERATION limonitic

RX TYPE (AT DEPTH) diorite, pegmatite + phyllite

TYPE NO

WATER USED FOR IMMEDIATE AREA stock

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION fault/fracture

PROPERTY OWNED BY (private)

PREVIOUS AND/OR CURRENT LEASES John-Jeff Cattle Co.

95-32 = 63.5/9

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15688 Date 13 AUG Time 5:15

Name ADIT SPRING Location: Co. KERN State CA

Sec. 35, SW 1/4 Twp. T27S R. 32E; 1.5 km/mi NNE OF HAVILAH

Lat. 35° 33' Long. 118° 31' Elevation 3020 Quad. MIRACLE HOT SPR 7.5'

Sampler J. FONSECA

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

DESCRIPTION:

WATER TEMP. °C 20

DISCHARGE 25<sup>30</sup> 30 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 26

DEPTH \_\_\_\_\_

ODOR none

BORE \_\_\_\_\_

FLUID COLOR none

PUMP TYPE \_\_\_\_\_

FLUID TASTE flat

STATIC HEAD \_\_\_\_\_

BUBBLING NO

SCALING \_\_\_\_\_

BOILING NO

TYPE OF PIPING \_\_\_\_\_

VEGETATION algae

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM mine adit

ROCK DATA:

TYPE (SURFACE) fractured granodiorite

COLOR gray

GRAIN SIZE 1-3 mm

MEGASCOPIC MINERALS qtz bt fsp

SALT:

TYPE CaCO<sub>3</sub>

QUANTITY moderate to abundant

COLOR bright orange where actively being deposited - fades to tan when exposed to air

FORM layered encrustations

ALTERATION limonitic

SINTER: upon mine tailings.

RX TYPE (AT DEPTH) same + andesite porphyry

TYPE \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA nothing

QUANTITY \_\_\_\_\_

USED FOR nothing

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION unknown

PROPERTY OWNED BY unknown

PREVIOUS AND/OR CURRENT LEASES unknown

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15689 Date 17 Aug Time 2<sup>00</sup> PM

Name UNNAMED Location: Co. NYE State NEV

Sec. 5 Twp. 12S R. 47E; 1 km/mi NE OF BEATTY

Lat. # 36° 55' Long 116° 44.5' Elevation 3350 Quad. BARE MTN

Sampler J. FONSECA

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

DESCRIPTION:

WATER TEMP. °C 27

DISCHARGE 10  gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 38

DEPTH \_\_\_\_\_

ODOR none

BORE \_\_\_\_\_

FLUID COLOR none

PUMP TYPE \_\_\_\_\_

FLUID TASTE unknown

STATIC HEAD \_\_\_\_\_

BUBBLING no

SCALING \_\_\_\_\_

BOILING no

TYPE OF PIPING \_\_\_\_\_

VEGETATION slight algae

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM Qal into concrete collection box

ROCK DATA:

TYPE (SURFACE) Qal

COLOR gray-brown

GRAIN SIZE sand

MEGASCOPIC MINERALS qtz + fip derived

from lithic/vitric/and xl tuffs.

SALT:

TYPE NO

ALTERATION \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

SINTER:

TYPE NO

RX TYPE (AT DEPTH) various tuff units -

Some lithic, some vitric, some xl.

WATER USED FOR IMMEDIATE AREA city supply

USED FOR nothing

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE:  EXC.,  GOOD,  POOR

PROBABLE CAUSE OF MANIFESTATION groundwater unknown

PROPERTY OWNED BY unknown

PREVIOUS AND/OR CURRENT LEASES unknown

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. VRS #1 Sample No. X 15715 Date 6/12/84 Time 4:15

Name: ~~MICHAEL CONNELLY~~ VRS #1 Location: Co. ESMERALDA State NEVEDA

Sec. 16 T 1 S R: 36E; 1 Km/mi. SW of THE CROSSING

Lat.: 117°59 Long.: 37°45 Sampler: MICHAEL CONNELLY

Elevation: 4750 Quad. RYHOLITE RIDGE

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

Description:

Water Temp. °C 42°C Discharge: 35 gpm/Lpm

Ground Temp. °C \_\_\_\_\_ Well Data: Depth 650-800'

Air Temp. \_\_\_\_\_ Bore 8"

Odor \_\_\_\_\_ Pump Type \_\_\_\_\_

Fluid Color CLEAR Level of water in bore 10' ABOVE SURFACE

Fluid Taste SLIGHT METALLIC Type of piping 8" CASING

Bubbling - Artesian Head 10' ABOVE SURFACE

Boiling - Rock Data: \_\_\_\_\_

Vegetation GREEN ALGAE Type (surface) TERTIARY VOLCANIC TUFF

Fluid issues from ARTESIAN WELL Color WHITE

Grain size \_\_\_\_\_

Megascope Minerals \_\_\_\_\_

Salt: Type YES

Quantity LITTLE

Color WHITE Alteration: UN ALTERED

Form FORMS RING AROUND SUMM Rx Type (at depth) TERTIARY VOLCANICS

Sinter: Type \_\_\_\_\_ Water used for BATHING

Quantity \_\_\_\_\_ Immediate area used for: BATHING

Color \_\_\_\_\_

Form \_\_\_\_\_ Quality of sample: Exc., Good, Poor

Probable cause of manifestation \_\_\_\_\_

Property owned by \_\_\_\_\_

Previous and/or Current Leases \_\_\_\_\_

Comments: \_\_\_\_\_

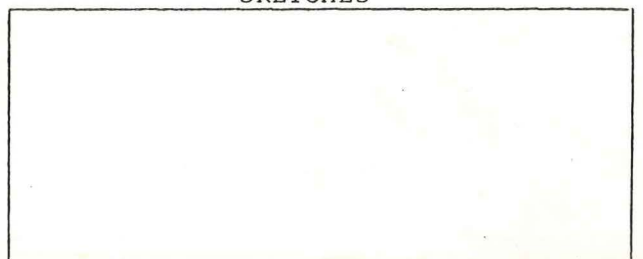
\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

SKETCHES



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15716 Date 16 Jun Time 3:50

Name WORKING WELL Location: Co. ESMERALDA State NEV

Sec. 3 Twp. 12N R. 32E ; 1 km/mi SW OF Gabbs Valley Road

Lat. 38° 56' Long. 118° 21' Elevation 4159 Quad. MURPHY'S WELL

Sampler J. FONSECA

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

DESCRIPTION:

WATER TEMP. °C \_\_\_\_\_ ~60°F

*according to owner but actually close to 35°C*

DISCHARGE unknown gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 33°C

DEPTH 550 ft

ODOR \_\_\_\_\_

BORE ~12"

FLUID COLOR clear

PUMP TYPE submersible

FLUID TASTE \_\_\_\_\_

STATIC HEAD -45 ft

BUBBLING \_\_\_\_\_

SCALING yes

BOILING \_\_\_\_\_

TYPE OF PIPING galvanized + plastic

VEGETATION \_\_\_\_\_

ARTESIAN HEAD none

FLUID ISSUES FROM \_\_\_\_\_

ROCK DATA:

TYPE (SURFACE) alluvium to 100-150'

COLOR \_\_\_\_\_

SALT: \_\_\_\_\_

N/A

GRAIN SIZE \_\_\_\_\_

TYPE \_\_\_\_\_

MEGASCOPIC MINERALS \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION limonite?

SINTER: \_\_\_\_\_

N/A

RX TYPE (AT DEPTH) Tertiary rhyolite

TYPE \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA refining gold concentrate

QUANTITY \_\_\_\_\_

USED FOR mining, grazing?

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION groundwater

PROPERTY OWNED BY BLM

PREVIOUS AND/OR CURRENT LEASES by Kent + Russ Pollard

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. ALKALI FLAT 1 Sample No. W15717 Date 17 Jun 84 Time 10:46 AM  
 Name (UNNAMED) ALKALI FLAT 1 Location: Co. ESMERALDA State NEV  
 Sec. 4 Twp. 12N R. 33E; 6 km(mi) E OF GABBS VALLEY ROAD  
 Lat. 38°56' Long. 118°16' Elevation 4102 Quad. MURPHY'S WELL  
 Sampler J. FONSECA

Sample Type: Spring (with pipe), well (with pipe), creek, river, soil, salt, sinter, travertine, gas, rock, snow (photo taken #1)

DESCRIPTION:

WATER TEMP. °C 14.5°C

DISCHARGE 1 liter per minute (gpm/lpm)

GROUND TEMP. °C unknown

WELL DATA: or less

AIR TEMP. 32°C

DEPTH unknown

ODOR slight H<sub>2</sub>S

BORE 7" (inch)

FLUID COLOR slightly green-yellow

PUMP TYPE none

FLUID TASTE v. salty!

STATIC HEAD N/A

BUBBLING NO

SCALING slight

BOILING NO

TYPE OF PIPING casing

VEGETATION yel-green algae abundant

ARTESIAN HEAD 4" (inch)

FLUID ISSUES FROM casing

ROCK DATA: playa clays

TYPE (SURFACE)

COLOR light grayish brown

SALT: NaCl, CaCO<sub>3</sub>

TYPE slight efflorescence on playa clays, none around well

GRAIN SIZE silt / clay  
MEGASCOPIC MINERALS # qtz

QUANTITY slight

COLOR white

FORM efflorescence

ALTERATION

SINTER:

RX TYPE (AT DEPTH) Tert volcanic

TYPE

WATER USED FOR IMMEDIATE AREA nothing

QUANTITY

USED FOR nothing

COLOR


FORM

QUALITY OF SAMPLE: (EXC), GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION groundwater table

PROPERTY OWNED BY unknown

PREVIOUS AND/OR CURRENT LEASES unknown

  
casing torn to permit flow

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15718 Date 18 JUN Time 10:50

Name COLD SPRINGS Location: Co. NYE State NV

Sec. 6 Twp. 12N R. 33E; 0.5 (km)mi WNW OF BM 4156  
LONG lat. 118° 11' 30" LAT long. 38° 56' Elevation 4120 Quad. MOUNT ANNIE

Sampler J. FONSECA

Sample Type: Spring (with pipe), well (with pipe), creek, river, soil, salt, sinter, travertine, gas, rock, snow  
no direct outflow - taken up by dense vegetation  
photo # 3

DESCRIPTION:

WATER TEMP. °C 11.5° DISCHARGE several 1-5? (gpm/Lpm)

GROUND TEMP. °C unknown WELL DATA:

AIR TEMP. 32° DEPTH N/A

ODOR strong H<sub>2</sub>S (rotting veg) BORE \_\_\_\_\_

FLUID COLOR clear w/ algae PUMP TYPE \_\_\_\_\_

FLUID TASTE no way STATIC HEAD \_\_\_\_\_

BUBBLING no SCALING \_\_\_\_\_

BOILING no TYPE OF PIPING \_\_\_\_\_

VEGETATION v. dense salt grass ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM dense salt grass, not exposed to sunlight, low mound of clay + salt. ROCK DATA:  
TYPE (SURFACE) playa clays

SALT: TYPE NaCl, CaCO<sub>3</sub>, CaSO<sub>4</sub> · nH<sub>2</sub>O? GRAIN SIZE \_\_\_\_\_

QUANTITY efflorescence MEGASCOPIC MINERALS \_\_\_\_\_

COLOR moderate \_\_\_\_\_

FORM white to orangish ALTERATION none

SINTER: RX TYPE (AT DEPTH) botryoidal, stalactitic medium grained diorite

TYPE N/A WATER USED FOR IMMEDIATE AREA veg

QUANTITY \_\_\_\_\_ USED FOR nothing

COLOR \_\_\_\_\_

FORM \_\_\_\_\_ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION fault

PROPERTY OWNED BY unknown

PREVIOUS AND/OR CURRENT LEASES unknown



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15719 Date 18 JUN Time 12 30  
 Name HOT SPRING Location: Co. MINERAL State NV  
 Sec. 7 Twp. 12N R. 34E; 0.5 (km/mi) NW OF ROAD ON EAST MARGIN ALKALI FLAT  
 Lat. 38° 55' 30" Long. 118° 12' Elevation 4125 Quad. MOUNT ANNIE  
 Sampler J FONSECA

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

DESCRIPTION:

WATER TEMP. °C 58 DISCHARGE 30 gpm/Lpm  
 GROUND TEMP. °C unknown WELL DATA: \_\_\_\_\_  
 AIR TEMP. 40 DEPTH N/A  
 ODOR none BORE \_\_\_\_\_  
 FLUID COLOR clear PUMP TYPE \_\_\_\_\_  
 FLUID TASTE slightly salty STATIC HEAD \_\_\_\_\_  
 BUBBLING yes-slight SCALING \_\_\_\_\_  
 BOILING no TYPE OF PIPING \_\_\_\_\_  
 VEGETATION saltgrass on margin, green ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM + red algae within  
pod 8m wide

ROCK DATA:

TYPE (SURFACE) playa clays  
 COLOR \_\_\_\_\_  
 GRAIN SIZE MEGASCOPIC MINERALS \_\_\_\_\_

SALT:

TYPE CaCO<sub>3</sub>  
 QUANTITY slight  
 COLOR white  
 FORM crust

ALTERATION \_\_\_\_\_

SINTER:

TYPE N/A  
 QUANTITY \_\_\_\_\_  
 COLOR \_\_\_\_\_  
 FORM \_\_\_\_\_

RX TYPE (AT DEPTH) \_\_\_\_\_  
 WATER USED FOR IMMEDIATE AREA stock pond?  
 USED FOR living quarters, auto junkyard.

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION unknown. fault?  
 PROPERTY OWNED BY unknown  
 PREVIOUS AND/OR CURRENT LEASES unknown Don Seely (deceased)?

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. X W 15720 Date 6/12/84 Time 3:10

Name: Rick Lantz South Club Spring Location: Co. Esmeralda State Nev.

Sec. \_\_\_\_\_ T 15 R: 36 E; 6 Km/mi N of Dyer Ranch

Lat.: 37° 51' Long.: 118° 0.05' Sampler: R. Lantz

Elevation: 47110 Quad. Davis Mountain 15'

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

Description:

Water Temp. °C 24° Discharge: 30-50 gpm/Lpm

Ground Temp. °C \_\_\_\_\_ Well Data: Depth 7

Air Temp. 22° Bore 9"

Odor \_\_\_\_\_ Pump Type \_\_\_\_\_

Fluid Color clear Level of water in bore Full & overflowing

Fluid Taste slightly metallic + salt Type of piping 9" casing

Bubbling weak Artesian Head yes 2"

Boiling No Rock Data: \_\_\_\_\_

Vegetation Water cross, green algae Type (surface) \_\_\_\_\_

Fluid issues from Well Bore Color \_\_\_\_\_

Grain size \_\_\_\_\_

Megascopic Minerals \_\_\_\_\_

Salt: Type \_\_\_\_\_

Quantity abundant

Color white Alteration: \_\_\_\_\_

Form \_\_\_\_\_ Rx Type (at depth) Text. Volcanics

Sinter: Type \_\_\_\_\_ Water used for Stock

Quantity \_\_\_\_\_ Immediate area used for: grazing

Color \_\_\_\_\_

Form \_\_\_\_\_ Quality of sample: Exc., Good, Poor

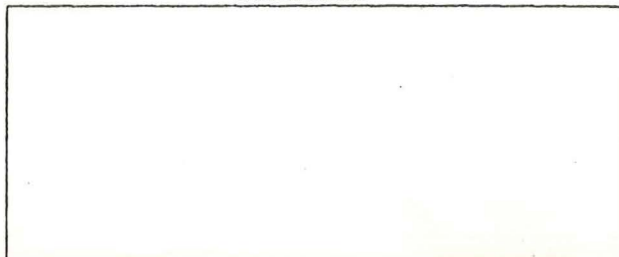
Probable cause of manifestation drilled

Property owned by McNott Homestead

Previous and/or Current Leases Magma Energy

Comments: Artesian

SKETCHES



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. X W15721 Date 6/12/84 Time 3:40pm

Name: House Spring Location: Co. Esmeralda State NV

NW 20 Sec. 15 T 36 R: \_\_\_\_\_; 5 1/2 Km/mi. N of Dyer Ranch

Lat.: 37°51' Long.: 118°05' Sampler: M Wilkening

Elevation: 4740 Quad. Davis Mt. Nev Calif 15°

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

Description:

Water Temp. °C 18 Discharge: 1 gpm/Lpm

Ground Temp. °C 2 Well Data: Depth NA

Air Temp. 21 Bore \_\_\_\_\_

Odor None Pump Type \_\_\_\_\_

Fluid Color Clear Level of water in bore \_\_\_\_\_

Fluid Taste None Type of piping \_\_\_\_\_

Bubbling No Artesian Head \_\_\_\_\_

Boiling No Rock Data: \_\_\_\_\_

Vegetation Water coat Type (surface) Alluvium

Fluid issues from ground Color \_\_\_\_\_

water Grain size \_\_\_\_\_

\_\_\_\_\_ Megascopeic Minerals \_\_\_\_\_

Salt: Type \_\_\_\_\_

Quantity abundant \_\_\_\_\_

Color white Alteration: NA

Form \_\_\_\_\_ Rx Type (at depth) Tert. volcanics

Sinter: Type \_\_\_\_\_ Water used for cattle

Quantity \_\_\_\_\_ Immediate area used for: grazing

Color \_\_\_\_\_

Form \_\_\_\_\_ Quality of sample: Exc., Good, Poor

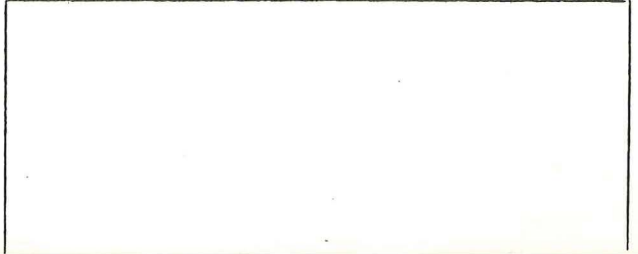
Probable cause of manifestation Ground water

Property owned by Mc Nett homestead

Previous and/or Current Leases Magma Energy Inc.

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SKETCHES



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15723 Date 7/2/81 Time 12:00 PM

Name JACK PINE SPRING Location: Co. DESHLER State OR

Sec. 33 Twp. 17S R. 10E; 2.25 km/mi NNE OF TUMALO LAKE

Lat. 44°03'30 Long. 121°31'30 Elevation 5680' Quad. ARROWTOWN

Sampler M. CONNELLY

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

DESCRIPTION:

WATER TEMP. °C 11°

DISCHARGE 2 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 19°C

DEPTH \_\_\_\_\_

ODOR NONE

BORE \_\_\_\_\_

FLUID COLOR CLEAR

PUMP TYPE \_\_\_\_\_

FLUID TASTE TASTELESS

STATIC HEAD \_\_\_\_\_

BUBBLING NO

SCALING \_\_\_\_\_

BOILING NO

TYPE OF PIPING \_\_\_\_\_

VEGETATION GRASSY

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM HOLE IN GROUND

ROCK DATA:

TYPE (SURFACE) NONE

COLOR \_\_\_\_\_

SALT:

GRAIN SIZE  
MEGASCOPIC  
MINERALS \_\_\_\_\_

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION NONE

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 FOREST SERVICE

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15724 Date 7/7/84 Time 12:30 PM

Name BEARWALLOW SPRING Location: Co. DESCHUTES State OR

Sec. NE SW 29 Twp. 17S R. 10E; .5 km/mi S30W OF BEARWALLOW MOUNTAIN

Lat. 44° 04' Long. 121° 33' 30" Elevation 6000 Quad. BROKEN TOP

Sampler M. CONNELLY

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

DESCRIPTION:

WATER TEMP. °C 11°C

DISCHARGE 1 gpm/lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 18°C

DEPTH \_\_\_\_\_

ODOR ODORLESS

BORE \_\_\_\_\_

FLUID COLOR CLEAR

PUMP TYPE \_\_\_\_\_

FLUID TASTE TASTELESS

STATIC HEAD \_\_\_\_\_

BUBBLING NO

SCALING \_\_\_\_\_

BOILING NO

TYPE OF PIPING \_\_\_\_\_

VEGETATION GRASS

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM SEEP ON HILL SIDE

ROCK DATA:

TYPE (SURFACE) NONE

COLOR N

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 FOREST SERVICE

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15725 Date 7/17/84 Time 10:30

Name \_\_\_\_\_ Location: Co. SISK. State CAL

Sec. NW 25 Twp. 46N R. 1W ; 2.2 km/mi WEST OF SHEEP MTN

Lat. \_\_\_\_\_ Long. \_\_\_\_\_ Elevation 4500' Quad. DORRICK

Sampler M. CONNELLY

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

DESCRIPTION:

WATER TEMP. °C \_\_\_\_\_

DISCHARGE \_\_\_\_\_ gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. \_\_\_\_\_

DEPTH \_\_\_\_\_

ODOR \_\_\_\_\_

BORE \_\_\_\_\_

FLUID COLOR CLEAR

PUMP TYPE \_\_\_\_\_

FLUID TASTE TASTELESS

STATIC HEAD \_\_\_\_\_

BUBBLING \_\_\_\_\_

SCALING \_\_\_\_\_

BOILING \_\_\_\_\_

TYPE OF PIPING \_\_\_\_\_

VEGETATION \_\_\_\_\_

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM \_\_\_\_\_

ROCK DATA:

TYPE (SURFACE) \_\_\_\_\_

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 \_\_\_\_\_



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15720 Date 7/17/84 Time 3:00 PM

Name BAIRD SPRINGS Location: Co. SISKIYOU State \_\_\_\_\_

Sec. SW 15 Twp. 43N R. 1E ; 2.5 km/mi WSW OF GARNEA MOUNTAIN

Lat. \_\_\_\_\_ Long. 121.50.30" Elevation 5400' Quad. BRAY

Sampler M. CONNELLY

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

DESCRIPTION:

WATER TEMP. °C 11°C DISCHARGE 2 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_ WELL DATA:

AIR TEMP. \_\_\_\_\_ DEPTH \_\_\_\_\_

ODOR ODORLESS BORE \_\_\_\_\_

FLUID COLOR COLORLESS PUMP TYPE \_\_\_\_\_

FLUID TASTE TASTELESS STATIC HEAD \_\_\_\_\_

BUBBLING \_\_\_\_\_ SCALING \_\_\_\_\_

BOILING \_\_\_\_\_ TYPE OF PIPING \_\_\_\_\_

VEGETATION \_\_\_\_\_ ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM \_\_\_\_\_ ROCK DATA:

TYPE (SURFACE) \_\_\_\_\_

COLOR \_\_\_\_\_

SALT: GRAIN SIZE \_\_\_\_\_  
TYPE \_\_\_\_\_ MEGASCOPIC MINERALS \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_ ALTERATION \_\_\_\_\_

SINTER: RX TYPE (AT DEPTH) \_\_\_\_\_

TYPE \_\_\_\_\_ WATER USED FOR \_\_\_\_\_

QUANTITY \_\_\_\_\_ IMMEDIATE AREA USED FOR \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION \_\_\_\_\_

PROPERTY OWNED BY \_\_\_\_\_

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15727 Date 7/16/74 Time 2:00PM

Name BELMAP SPRINGS Location: Co. SISK. State CAL

Sec. SE 13 Twp. 41N R. 1E ; 1.5 km/mi SSE OF LOOKOUT POINT

Lat. 41°23'30" Long. 121°47'30" Elevation 4640 Quad. BARTLE

Sampler M. SPINNELLY

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

DESCRIPTION:

WATER TEMP. °C 11°C

DISCHARGE 3 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. \_\_\_\_\_

DEPTH \_\_\_\_\_

ODOR ODORLESS

BORE \_\_\_\_\_

FLUID COLOR COLORLESS

PUMP TYPE \_\_\_\_\_

FLUID TASTE TASTELESS

STATIC HEAD \_\_\_\_\_

BUBBLING \_\_\_\_\_

SCALING \_\_\_\_\_

BOILING \_\_\_\_\_

TYPE OF PIPING \_\_\_\_\_

VEGETATION \_\_\_\_\_

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM \_\_\_\_\_

ROCK DATA:

TYPE (SURFACE) COVERED (BASALT)

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 FOREST SERVICE

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15728 Date 7/18/84 Time 5:30

Name BEAR SPRING Location: Co. SISK State CAL

Sec. SW 25 Twp. 42N R. 1E ; 25 km/mi NW OF OSO BUTTE

Lat. 41°27'30" Long. 121°48' Elevation 5000' Quad. BATTLE

Sampler M. CONNELLY

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

DESCRIPTION:

WATER TEMP. °C 12°c

DISCHARGE 5 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. \_\_\_\_\_

DEPTH \_\_\_\_\_

ODOR ODORLESS

BORE \_\_\_\_\_

FLUID COLOR \_\_\_\_\_

PUMP TYPE \_\_\_\_\_

FLUID TASTE NOT POTABLE

STATIC HEAD \_\_\_\_\_

BUBBLING \_\_\_\_\_

SCALING \_\_\_\_\_

BOILING \_\_\_\_\_

TYPE OF PIPING \_\_\_\_\_

VEGETATION \_\_\_\_\_

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM PIPE

ROCK DATA:

TYPE (SURFACE) NEXT TO CINDER CONE

COLOR \_\_\_\_\_

SALT:

GRAIN SIZE  
MEGASCOPIC  
MINERALS \_\_\_\_\_

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION \_\_\_\_\_

SINTER:

RX TYPE (AT DEPTH) \_\_\_\_\_

TYPE \_\_\_\_\_

WATER USED FOR  
IMMEDIATE AREA  
USED FOR PRAZING

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION \_\_\_\_\_

PROPERTY OWNED BY FOREST SERVICE

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15729 Date 8/02/84 Time 11:35

Name LOST SPRINGS Location: Co. SISKIYOU State CA

Sec. 31 Twp. 43N R. 2E ; 6.7 km/mi SSE OF TAMARACK LAKE

Lat. 41°32' Long. 121°47' Elevation 5920 Quad. BRAY

Sampler M. CONNELLY

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

DESCRIPTION:

WATER TEMP. °C 70

DISCHARGE .5 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. \_\_\_\_\_

DEPTH \_\_\_\_\_

ODOR ODORLESS

BORE \_\_\_\_\_

FLUID COLOR COLORED

PUMP TYPE \_\_\_\_\_

FLUID TASTE TASTY

STATIC HEAD \_\_\_\_\_

BUBBLING \_\_\_\_\_

SCALING \_\_\_\_\_

BOILING \_\_\_\_\_

TYPE OF PIPING \_\_\_\_\_

VEGETATION \_\_\_\_\_

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM FROM UNDER BASALT

ROCK DATA:

FLOW

TYPE (SURFACE) BASALT

COLOR BLACK

SALT:

GRAIN SIZE 0 PYROXENE  
MEGASCOPIC MINERALS \_\_\_\_\_

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION None

SINTER:

RX TYPE (AT DEPTH) 2

TYPE \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA 10 STICK  
USED FOR \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION \_\_\_\_\_

PROPERTY OWNED BY FOREST SERVICE

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. #2 Los Alamos Apt Sample No. W15730 Date 12/15/84 Time 10:30 am

Name Black boiling spring Location: Co. State

Sec. Twp. R. ; km/mi OF

Lat. Long. Elevation Quad.

Sampler D.P.

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

DESCRIPTION:

WATER TEMP. °C 78

DISCHARGE 10 gpm/Lpm

GROUND TEMP. °C Warm

WELL DATA:

AIR TEMP. -

DEPTH

ODOR H2S + SO2

BORE

FLUID COLOR Black

PUMP TYPE

FLUID TASTE -

STATIC HEAD

BUBBLING Vigorously

SCALING

BOILING NO

TYPE OF PIPING

VEGETATION none

ARTESIAN HEAD

FLUID ISSUES FROM acid alteration

ROCK DATA:

of Volcanics

TYPE (SURFACE)

COLOR

SALT:

GRAIN SIZE MEGASCOPIC MINERALS

TYPE

QUANTITY

COLOR

FORM

ALTERATION Acid sulfate

SINTER:

RX TYPE (AT DEPTH) volcanic

TYPE

WATER USED FOR IMMEDIATE AREA USED FOR Tourist

QUANTITY

COLOR

FORM

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION

PROPERTY OWNED BY ? Government.

PREVIOUS AND/OR CURRENT LEASES none



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. Spring #8 LA 1207 Sample No. W15731 Date 12/15/84 Time 11:00

Name Clear Bubbling Spring Location: Co. \_\_\_\_\_ State \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ R. \_\_\_\_\_ ; \_\_\_\_\_ km/mi \_\_\_\_\_ OF \_\_\_\_\_

Lat. \_\_\_\_\_ Long. \_\_\_\_\_ Elevation \_\_\_\_\_ Quad. \_\_\_\_\_

Sampler DP

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

DESCRIPTION:

WATER TEMP. °C 74

DISCHARGE 10 gpm/Lpm

GROUND TEMP. °C Warm

WELL DATA:

AIR TEMP. \_\_\_\_\_

DEPTH \_\_\_\_\_

ODOR H<sub>2</sub>S

BORE \_\_\_\_\_

FLUID COLOR clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE -

STATIC HEAD \_\_\_\_\_

BUBBLING yes

SCALING \_\_\_\_\_

BOILING no

TYPE OF PIPING \_\_\_\_\_

VEGETATION no

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM altered volcanics

ROCK DATA:

TYPE (SURFACE) altered volcanic

COLOR \_\_\_\_\_

SALT:

GRAIN SIZE \_\_\_\_\_  
MEGASCOPIC \_\_\_\_\_  
MINERALS \_\_\_\_\_

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION Acid sulfate

SINTER:

RX TYPE (AT DEPTH) volcanic

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 \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. #16 LA rpt Sample No. W15 732 Date 12/15/84 Time 11:15

Name light grey boiling pond Location: Co. State

Sec. Twp. R. ; km/mi OF

Lat. Long. Elevation Quad.

Sampler

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

DESCRIPTION:

WATER TEMP. °C 94 DISCHARGE 10 gpm/Lpm

GROUND TEMP. °C WELL DATA:

AIR TEMP. DEPTH

ODOR H2S BORE

FLUID COLOR grey milky PUMP TYPE

FLUID TASTE STATIC HEAD

BUBBLING yes SCALING

BOILING yes TYPE OF PIPING

VEGETATION NO ARTESIAN HEAD

FLUID ISSUES FROM ROCK DATA:

TYPE (SURFACE)

COLOR

SALT: GRAIN SIZE

TYPE MEGASCOPIC MINERALS

QUANTITY

COLOR

FORM ALTERATION

SINTER: RX TYPE (AT DEPTH)

TYPE WATER USED FOR IMMEDIATE AREA

QUANTITY USED FOR

COLOR

FORM QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION

PROPERTY OWNED BY

PREVIOUS AND/OR CURRENT LEASES

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15791 Date 6/24/84 Time 4:00 PM

Name SNOW CREEK #1 Location: Co. DESCHUTES State OREGON

Sec. SW 34 Twp. 19 S R. 8E ; 1 km/mi NNE OF DESCHUTES BRIDGE

Lat. 43° 53' Long. 121° 46' Elevation 4640 Quad. ELK LAKE

Sampler M. CONNELLY

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

DESCRIPTION:

WATER TEMP. °C 75°C

DISCHARGE 2 gpm/lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. \_\_\_\_\_

DEPTH \_\_\_\_\_

ODOR NONE

BORE \_\_\_\_\_

FLUID COLOR CLEAR

PUMP TYPE \_\_\_\_\_

FLUID TASTE TASTELESS

STATIC HEAD \_\_\_\_\_

BUBBLING NO

SCALING \_\_\_\_\_

BOILING NO

TYPE OF PIPING \_\_\_\_\_

VEGETATION FERNS

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM \_\_\_\_\_

ROCK DATA:

TYPE (SURFACE) BASALT

COLOR BLACK

GRAIN SIZE APHONITIC  
MEGASCOPIIC MINERALS Fds

SALT:

TYPE —

QUANTITY \_\_\_\_\_

COLOR —

FORM —

ALTERATION NONE

SINTER:

RX TYPE (AT DEPTH) BASALT

TYPE \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA USED FOR \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION FLOW UNDER BASALT

PROPERTY OWNED BY FOREST SERVICE

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

PICTURE 1 & 2 ON ROLL 1



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W 15792 Date 6/26/89 Time 5:00 PM

Name SNOW CREEK #2 Location: Co. DESCHUTES State OR

Sec. SW 34 Twp. 19S R. 8E ; 1 mi NNE OF DESCHUTES BRIDGE

Lat. 43°53' Long. 121°46' Elevation 4630 Quad. ELK LAKE

Sampler M. CONNELLY

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

DESCRIPTION:

WATER TEMP. °C 6.5°C DISCHARGE 150 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_ WELL DATA:

AIR TEMP. 19 DEPTH \_\_\_\_\_

ODOR - BORE \_\_\_\_\_

FLUID COLOR - PUMP TYPE \_\_\_\_\_

FLUID TASTE - STATIC HEAD \_\_\_\_\_

BUBBLING YES SCALING \_\_\_\_\_

BOILING - TYPE OF PIPING \_\_\_\_\_

VEGETATION FERNS ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM \_\_\_\_\_ ROCK DATA:

TYPE (SURFACE) BASALT

COLOR BLACK

GRAIN SIZE APHANITIC  
MEGASCOPIC MINERALS FELDSPARS

SALT:

TYPE -

QUANTITY -

COLOR -

FORM -

ALTERATION NONE

SINTER: RX TYPE (AT DEPTH) BASALT

TYPE \_\_\_\_\_ WATER USED FOR

QUANTITY \_\_\_\_\_ IMMEDIATE AREA

COLOR \_\_\_\_\_ USED FOR \_\_\_\_\_

FORM \_\_\_\_\_ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION FLOW FROM UNDER BASALT

PROPERTY OWNED BY FOREST SERVICE

PREVIOUS AND/OR CURRENT LEASES ?



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15793 Date 6/29/84 Time 1:45 PM

Name NORTH POLE CREEK Location: Co. DESCHUTES State ORE

Sec. SE SW 33 Twp. 156 R. 9E ; 1.5 km/mi DOE SOUTH OF TROUT CREEK BUTTE

Lat. 44° 11' 30" Long. 121.40' Elevation 4758 Quad. BROKEN TOP

Sampler M. CONNELLY

Sample Type: Spring (with pipe), well (with pipe), creek, river, soil, salt, sinter, travertine, gas, rock, snow HAS METAL BARREL IN IT

DESCRIPTION:

WATER TEMP. °C 11.5°C

DISCHARGE 5 gpm/lpm

GROUND TEMP. °C 16

WELL DATA:

AIR TEMP. 16°C

DEPTH \_\_\_\_\_

ODOR NONE

BORE \_\_\_\_\_

FLUID COLOR CLEAR

PUMP TYPE \_\_\_\_\_

FLUID TASTE TASTELESS

STATIC HEAD \_\_\_\_\_

BUBBLING -

SCALING \_\_\_\_\_

BOILING -

TYPE OF PIPING \_\_\_\_\_

VEGETATION GRASSY AREA

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM \_\_\_\_\_

ROCK DATA:

TYPE (SURFACE) NONE

COLOR NONE

SALT:

GRAIN SIZE  
MEGASCOPIC  
MINERALS \_\_\_\_\_

TYPE -

QUANTITY \_\_\_\_\_

COLOR -

FORM -

ALTERATION NONE

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 FOREST SERVICE

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_





Results to Edgar Smith  
P.O. Box 1246  
Hawthorne, Nev 89415

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15846 Date 6/29/84 Time 11:00 AM  
Name Candelaria Mine Location: Co. Esmeralda State Nevada  
Sec. Unsurveyed Twp. 3N R. 35E ; ~3 km(mi) West OF Columbus, Nev  
Lat. 518 mm N Long. 189 mm E Elevation 4890 Quad. Columbus 7 1/2' quad  
Sampler JEAN CLINE

Sample Type: Spring (with pipe), well (with pipe), creek, river, soil, salt, sinter, travertine, gas, rock, snow - sample of well water from holding tank, several miles from well

DESCRIPTION:

WATER TEMP. °C Not taken - reportedly 76°F DISCHARGE \_\_\_\_\_ gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. \_\_\_\_\_

DEPTH 1000' (reportedly)

ODOR None

BORE \_\_\_\_\_

FLUID COLOR Clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE None

STATIC HEAD \_\_\_\_\_

BUBBLING No

SCALING \_\_\_\_\_

BOILING No

TYPE OF PIPING \_\_\_\_\_

VEGETATION green algae in tank

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM originally from well - sample from holding tank

ROCK DATA:

TYPE (SURFACE) truffs & basalt

COLOR white-yellow & black

GRAIN SIZE fine

MEGASCOPIC MINERALS qtz, pumice

SALT:

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION Alluvium - no alteration

SINTER:

RX TYPE (AT DEPTH) Tert volcanics

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA Mine

USED FOR Mining

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION \_\_\_\_\_

PROPERTY OWNED BY Candelaria Mines - Nueco

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15848 Date 7/2/84 Time 11:00AM  
Name BAXTER SPRING Location: Co. NYE State NEVADA  
Sec. NW 4 S25 Twp. 7N R. 43E ; 4.5 km(mi) SE OF Willow Spring  
Lat. 332mm N Long. 192.5mm E Elevation 6880 Quad. BAXTER SPRING - 15N  
Sampler JEAN CLINE

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

DESCRIPTION:

WATER TEMP. °C 14.5°C  
GROUND TEMP. °C \_\_\_\_\_  
AIR TEMP. 30°C  
ODOR None  
FLUID COLOR Clear  
FLUID TASTE \_\_\_\_\_  
BUBBLING No  
BOILING No  
VEGETATION Mint, grass  
FLUID ISSUES FROM ground  
Roll #1, photo 35

DISCHARGE ~10 (gpm/Lpm)

WELL DATA:  
DEPTH \_\_\_\_\_  
BORE \_\_\_\_\_  
PUMP TYPE \_\_\_\_\_  
STATIC HEAD \_\_\_\_\_  
SCALING \_\_\_\_\_  
TYPE OF PIPING \_\_\_\_\_  
ARTESIAN HEAD \_\_\_\_\_

ROCK DATA:  
TYPE (SURFACE) limestone  
COLOR dk gray  
GRAIN SIZE v. fine gr  
MEGASCOPIC MINERALS \_\_\_\_\_

SALT:  
TYPE \_\_\_\_\_  
QUANTITY \_\_\_\_\_  
COLOR \_\_\_\_\_  
FORM \_\_\_\_\_

ALTERATION gypsum, FeOx stain - minor  
RX TYPE (AT DEPTH) limestone ?  
WATER USED FOR IMMEDIATE AREA Cattle  
USED FOR grazing

SINTER:  
TYPE \_\_\_\_\_  
QUANTITY \_\_\_\_\_  
COLOR \_\_\_\_\_  
FORM \_\_\_\_\_

QUALITY OF SAMPLE: (EXC.), GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION ground water  
PROPERTY OWNED BY Unknown  
PREVIOUS AND/OR CURRENT LEASES Unknown



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15851 Date 7/9/84 Time 2:30 PM  
Name PEAVINE RANCH SPRING Location: Co. NYE State NEV  
Sec. 9 Twp. 8N R. 42E ; 800' ~~km/mi~~ SE OF PEAVINE RANCH  
Lat. 306mmN Long. 387mmE Elevation 5900' Quad. DRY CANYON  
Sampler JEAN CLINE

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

DESCRIPTION:

WATER TEMP. °C 16°C  
GROUND TEMP. °C \_\_\_\_\_  
AIR TEMP. 34°C  
ODOR NONE  
FLUID COLOR CLEAR  
FLUID TASTE NONE  
BUBBLING No  
BOILING No  
VEGETATION GRASS

DISCHARGE 25-50 gpm gpm/Lpm

WELL DATA:

~~DEPTH \_\_\_\_\_  
BORE \_\_\_\_\_  
PUMP TYPE \_\_\_\_\_  
STATIC HEAD \_\_\_\_\_  
SCALING \_\_\_\_\_  
TYPE OF PIPING \_\_\_\_\_  
ARTESIAN HEAD \_\_\_\_\_~~

FLUID ISSUES FROM Buried pipe

ROCK DATA:

TYPE (SURFACE) x1 Tuff  
COLOR white

GRAIN SIZE ~~fine~~ fine  
MEGASCOPIC MINERALS fg, spar, biol

- + green volcanic float - mont?

SALT:

TYPE NONE  
QUANTITY \_\_\_\_\_  
COLOR \_\_\_\_\_  
FORM \_\_\_\_\_

ALTERATION kaol - strongly alk

SINTER:

TYPE \_\_\_\_\_  
QUANTITY \_\_\_\_\_  
COLOR \_\_\_\_\_  
FORM \_\_\_\_\_

RX TYPE (AT DEPTH) volc

WATER USED FOR IMMEDIATE AREA USED FOR cattle grazing

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION ground water table  
PROPERTY OWNED BY Peavine Ranch?  
PREVIOUS AND/OR CURRENT LEASES Unknown

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15852 Date 7/11/84 Time 12:00  
 Name PALO ALTO SPRING Location: Co. NYE State NEV  
 Sec. 15, NW 4 Twp. 8N R. 43E ; 1 (km)/mi West OF Palo Alto Hill  
 Lat. 241 mm N Long. 3835 mm E Elevation 6210 Quad. SEYLER PEAK - 7 1/2  
 Sampler JEAN CLINE

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

DESCRIPTION:

WATER TEMP. °C	<u>16° C</u>	DISCHARGE	<u>&lt; 1</u> <u>gpm/Lpm</u>
GROUND TEMP. °C	_____	WELL DATA:	_____
AIR TEMP.	<u>33° C</u>	DEPTH	_____
ODOR	<u>NONE</u>	BORE	_____
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	_____
FLUID TASTE	<u>NONE</u>	STATIC HEAD	_____
BUBBLING	<u>No</u>	SCALING	_____
BOILING	<u>No</u>	TYPE OF PIPING	_____
VEGETATION	<u>SALT GRASS</u>	ARTESIAN HEAD	_____
FLUID ISSUES FROM	<u>ground</u>	ROCK DATA:	_____

SALT:

TYPE NaCl - some K  
 QUANTITY ~ 40 acres  
 COLOR white  
 FORM crystallites

TYPE (SURFACE) limestone, mineralized, + sty veins  
 COLOR tan to gray  
 GRAIN SIZE fr  
 MEGASCOPIC MINERALS + sty veining

SINTER:

TYPE travertine  
 QUANTITY ~ 20-30 acres, thin  
 COLOR tan -> gray -> limonite stained  
 FORM terrace deposit

ALTERATION weak Fe stain  
 RX TYPE (AT DEPTH) limestone  
 WATER USED FOR IMMEDIATE AREA rattle  
 USED FOR grazing

PROBABLE CAUSE OF MANIFESTATION groundwater - prob along fault  
 PROPERTY OWNED BY Unknown  
 PREVIOUS AND/OR CURRENT LEASES Unknown

QUALITY OF SAMPLE: EXC., GOOD, POOR



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W 15853 Date 9/10/84 Time 5:30PM  
 Name LOWER COW CAMP SPRING Location: Co. ESMERALDA State NEV  
 Sec. 34 (SW4) Twp. 3S R. 38E ; 10 km(mi) SE OF Piper Peak  
 Lat. 233.5mm N Long. 350.5mm E Elevation 5150 Quad. Piper Peak - 15'  
 Sampler FRAN S. CLINE

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

DESCRIPTION:

WATER TEMP. °C	<u>19.5°C</u>	DISCHARGE	<u>5</u> <u>(gpm)</u> /Lpm
GROUND TEMP. °C	_____	WELL DATA:	_____
AIR TEMP.	<u>28°C</u>	DEPTH	_____
ODOR	<u>None</u>	BORE	_____
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	_____
FLUID TASTE	<u>None</u>	STATIC HEAD	_____
BUBBLING	<u>No</u>	SCALING	_____
BOILING	<u>No</u>	TYPE OF PIPING	_____
VEGETATION	<u>GRASS, ALGAE</u>	ARTESIAN HEAD	_____
FLUID ISSUES FROM	<u>METAL PIPE</u>	ROCK DATA:	_____

SALT:

TYPE	<u>NaCl</u>	GRAIN SIZE	<u>FINE</u>
QUANTITY	<u>TRACE</u>	MEGASCOPIC MINERALS	<u>PLAG</u>
COLOR	<u>WHITE</u>	ALTERATION	<u>SOME CHLORITE</u>
FORM	<u>CRUSTY</u>	RX TYPE (AT DEPTH)	_____

SINTER:

TYPE	_____	WATER USED FOR IMMEDIATE AREA	<u>CATTLE</u>
QUANTITY	_____	USED FOR	<u>GRAZING</u>
COLOR	_____	QUALITY OF SAMPLE: EXC., <u>(GOOD)</u> , POOR	_____
FORM	_____		

PROBABLE CAUSE OF MANIFESTATION WATER TABLE  
 PROPERTY OWNED BY UNKNOWN  
 PREVIOUS AND/OR CURRENT LEASES UNKNOWN

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15854 Date 9/11/84 Time 11:46 AM

Name HORATH CORRAL SPRING Location: Co. EMERALD State NEV

*Unsurveyed* Sec. SE 4, Sec 36 Twp. 4S R. 39E ; 2.5 km(mi) North OF Palmetto Stus

Lat. 76.5 mm North Long. 211.5 mm Elevation 6470 Quad. LIDAWASH 15'

Sampler JEAN S. CLIVE

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

DESCRIPTION:

WATER TEMP. °C 18°C

DISCHARGE 3-5 (gpm/Lpm)

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 24°C

DEPTH \_\_\_\_\_

ODOR NONE

BORE \_\_\_\_\_

FLUID COLOR CLEAR

PUMP TYPE \_\_\_\_\_

FLUID TASTE NONE

STATIC HEAD \_\_\_\_\_

BUBBLING No

SCALING \_\_\_\_\_

BOILING No

TYPE OF PIPING \_\_\_\_\_

VEGETATION GRASS

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM Pipe - buried

ROCK DATA:

TYPE (SURFACE) Prob limestone (float + abundant)

COLOR black

GRAIN SIZE fine grained

MEGASCOPIC MINERALS none

SALT:

TYPE NaCl

QUANTITY minor

COLOR white

FORM crustiform

ALTERATION minor FeOx stain

SINTER:

TYPE \_\_\_\_\_

RX TYPE (AT DEPTH) prob and-bas capping hi points (+float)

QUANTITY \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA Cattle

COLOR \_\_\_\_\_

USED FOR grazing

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Spring - ground H2O

PROPERTY OWNED BY Unknown

PREVIOUS AND/OR CURRENT LEASES Unknown



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15855 Date 9/11/84 Time 4:30 PM

Name Pocahontas Spring Location: Co. Emmets State NE

*Unsurveyed*

Sec. SW 4, Sec 5 Twp. 5S R. 40E ; 2.5 km (mi) NE OF Palomoto Mtns

Lat. 54.0 mm No. Long. 256. mm E Elevation 6840' Quad. L1A WASH -15'

Sampler J. S. Mine

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

DESCRIPTION:

WATER TEMP. °C 13.5°C

DISCHARGE 10-20 (gpm/Lpm)

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 21.5°C

DEPTH \_\_\_\_\_

ODOR NONE

PORE \_\_\_\_\_

FLUID COLOR CLEAR

PUMP TYPE \_\_\_\_\_

FLUID TASTE NONE

STATIC HEAD \_\_\_\_\_

BUBBLING NO

SCALING \_\_\_\_\_

BOILING NO

TYPE OF PIPING \_\_\_\_\_

VEGETATION Grass

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM plastic pipe

ROCK DATA:

TYPE (SURFACE) Amesite prop

COLOR gray (med) gran mass

GRAIN SIZE white plug fine

MEGASCOPIC MINERALS white plug fossils

SALT:

TYPE NaCl

QUANTITY trace

COLOR white

FORM crustiform

ALTERATION None

SINTER:

RX TYPE (AT DEPTH) volcanic ?

TYPE \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA cattle

QUANTITY \_\_\_\_\_

USED FOR grazing

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Spring - water table

PROPERTY OWNED BY Unknown

PREVIOUS AND/OR CURRENT LEASES Unknown

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15857 Date 4/18/84 Time 12:20 PM

Name TEELS MARSH 2 Location: Co. MINERAL State NEV

Sec. \_\_\_\_\_ Twp. 4N R. 32E ; \_\_\_\_\_ km/mi ~ 1 3/4 M E OF Nevada Mine

Lat. 392.0 mm N Long. 426.5 mm E Elevation 4910 Quad. Little Hutton Valley - 7 1/2'

Sampler Stan Clive

Sample Type: Spring (with <sup>no pipe</sup> pipe), well (with pipe), creek, river, soil, salt, sinter, travertine, gas, rock, snow

DESCRIPTION:

WATER TEMP. °C 30°C

DISCHARGE None apparent gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA: ~~\_\_\_\_\_~~

AIR TEMP. 29°C

DEPTH \_\_\_\_\_

ODOR Salty

BORE \_\_\_\_\_

FLUID COLOR v. pale yellow

PUMP TYPE \_\_\_\_\_

FLUID TASTE \_\_\_\_\_

STATIC HEAD \_\_\_\_\_

BUBBLING No

SCALING \_\_\_\_\_

BOILING No

TYPE OF PIPING \_\_\_\_\_

VEGETATION Salt grass

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM ground  
x photo #23

ROCK DATA: ~~\_\_\_\_\_~~

TYPE (SURFACE) \_\_\_\_\_

COLOR \_\_\_\_\_

SALT:

GRAIN SIZE  
MEGASCOPIC  
MINERALS \_\_\_\_\_

TYPE NaCl

QUANTITY very abundant

COLOR white

FORM crusty

ALTERATION \_\_\_\_\_

SINTER:

RX TYPE (AT DEPTH) Calc. gum? - Test volc?

TYPE \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA cattle

QUANTITY \_\_\_\_\_

USED FOR grazing

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION ground H2O

PROPERTY OWNED BY Unknown

PREVIOUS AND/OR CURRENT LEASES Unknown



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15860 Date 6/17/84 Time 1:30 PM

Name HUNTOON SPRING Location: Co. MINERAL State NEV

Sec. UNSURVEYED Twp. 3N R. 30E ; 4 km/mi mi SSW OF Government Well

Lat. 228 mm E Long. 131 N Elevation 6160 Quad. Huntoon Valley - 15'

Sampler Jean Olive

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

DESCRIPTION:

WATER TEMP. °C 13°C

DISCHARGE < 1 gal/min gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 19°C

DEPTH \_\_\_\_\_

ODOR None

BORE \_\_\_\_\_

FLUID COLOR Clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE \_\_\_\_\_

STATIC HEAD \_\_\_\_\_

BUBBLING No

SCALING \_\_\_\_\_

BOILING No

TYPE OF PIPING \_\_\_\_\_

VEGETATION grass, sage

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM ground

ROCK DATA:

\* Sample collected 100' downstream from point of issue due to low amt of water present - photo #20

TYPE (SURFACE) crystal tuff

COLOR grayish-whl (fresh)

GRAIN SIZE fine

MEGASCOPIC MINERALS plg Ht, spar, minor biot

SALT:

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION kaolin of pumice

SINTER:

RX TYPE (AT DEPTH) same

TYPE \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA cattle

QUANTITY \_\_\_\_\_

USED FOR grazing

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION water table / intermittent stream bed

PROPERTY OWNED BY Unknown

PREVIOUS AND/OR CURRENT LEASES Unknown



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15862 Date 7/13/84 Time 11:30 A.M.

Name Cook Spring Location: Co. Esmeralda State Nevada

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ R. \_\_\_\_\_ ; .3 km/mi SE OF Norman Mill

Lat. 38°08' N Long. 117°45' Elevation 6740 ft Quad. Gilbert Quad

Sampler Turner

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

DESCRIPTION:

WATER TEMP. °C 16.5

DISCHARGE 5 gpm/lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 35°C

DEPTH \_\_\_\_\_

ODOR None

BORE \_\_\_\_\_

FLUID COLOR Clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE None

STATIC HEAD \_\_\_\_\_

BUBBLING No.

SCALING \_\_\_\_\_

BOILING No

TYPE OF PIPING 3" steel

VEGETATION Gross, reeds

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM 3" steel pipe

ROCK DATA:

TYPE (SURFACE) Qal

COLOR \_\_\_\_\_

SALT:

GRAIN SIZE \_\_\_\_\_  
MEGASCOPIC \_\_\_\_\_  
MINERALS \_\_\_\_\_

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION None

SINTER:

RX TYPE (AT DEPTH) Esmeralda Fm.

TYPE \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA stored for mill  
USED FOR \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION \_\_\_\_\_

PROPERTY OWNED BY BLM

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15863 Date 7/13/84 Time 3:30 P.M

Name No Name Location: Co. Esméralda State Nevada

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ R. \_\_\_\_\_ : .85 km/mi East OF Gilbert, Nev

Lat. 38° 11.4' Long. 117° 40.6' Elevation 6360 ft Quad. Gilbert

Sampler Turner

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

DESCRIPTION:

WATER TEMP. °C 17.5°

DISCHARGE 3 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 21° (heavy cloud cover)

DEPTH \_\_\_\_\_

ODOR None

BORE \_\_\_\_\_

FLUID COLOR Clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE None

STATIC HEAD \_\_\_\_\_

BUBBLING No

SCALING \_\_\_\_\_

BOILING No

TYPE OF PIPING 2" steel

VEGETATION Grasses, Green Algae

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM 2" diam steel pipe

ROCK DATA:

TYPE (SURFACE) Rhyolite

COLOR Pink

GRAIN SIZE Aphanitic

MEGASCOPIC MINERALS Qz, Bt, Ksp?

SALT:

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION ?

SINTER:

RX TYPE (AT DEPTH) Esméralda Fm?

TYPE \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA No use

QUANTITY \_\_\_\_\_

USED FOR \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION \_\_\_\_\_

PROPERTY OWNED BY BLM

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15864 Date 7/13/84 Time 4:30 P.M.

Name None Location: Co. Esmeralda State Nevada

Sec.        Twp.        R.        ; 2.35 km/mi WNW OF Gilbert, Nev.

Lat. \_\_\_\_\_ Long. \_\_\_\_\_ Elevation 6000' Quad. Gilbert

Sampler Turner

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

DESCRIPTION:

WATER TEMP. °C 14°C

DISCHARGE 4 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 24°C

DEPTH \_\_\_\_\_

ODOR None

BORE \_\_\_\_\_

FLUID COLOR Clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE None

STATIC HEAD \_\_\_\_\_

BUBBLING No

SCALING \_\_\_\_\_

BOILING No

TYPE OF PIPING \_\_\_\_\_

VEGETATION Grass, willows, green Algae

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM 4" diam steel pipe

ROCK DATA:

TYPE (SURFACE) Rhyolite

COLOR Pink

GRAIN SIZE \_\_\_\_\_

MEGASCOPIC MINERALS Qz, Bt

SALT:

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION \_\_\_\_\_

SINTER:

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

RX TYPE (AT DEPTH) Esmeralda Fm.?

WATER USED FOR IMMEDIATE AREA USED FOR Livestock

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION \_\_\_\_\_

PROPERTY OWNED BY BLM

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15867 Date 8/2/84 Time 1:00 PM

Name Toll House Spring Location: Co. Inyo State Calif

Sec. 24 Twp. 8S R. 34E; ~7 km(mi) NE OF Big Pine, CA

Lat. 37° 14.6' Long. 118° 11.5' Elevation 5990 ft Quad. Waucoba Mtn 15'

Sampler Turner

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

DESCRIPTION:

WATER TEMP. °C 18.5°C

DISCHARGE 70 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 33.5°C

DEPTH \_\_\_\_\_

ODOR No

BORE \_\_\_\_\_

FLUID COLOR Clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE No

STATIC HEAD \_\_\_\_\_

BUBBLING No

SCALING \_\_\_\_\_

BOILING No

TYPE OF PIPING \_\_\_\_\_

VEGETATION locust, cottonwood, grasses

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM 1" steel pipe

ROCK DATA:

TYPE (SURFACE) shale

COLOR dark red

GRAIN SIZE \_\_\_\_\_  
MEGASCOPIC \_\_\_\_\_  
MINERALS \_\_\_\_\_

SALT:

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION \_\_\_\_\_

SINTER:

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

RX TYPE (AT DEPTH) \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA \_\_\_\_\_  
USED FOR \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION ?

PROPERTY OWNED BY U.S. Forest

PREVIOUS AND/OR CURRENT LEASES ?

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W 15868 Date 8/4/84 Time 3:00 PM

Name Waucoba Spring Location: Co. Inyo State CA

Sec. 8 Twp. 10S R. 37E; 2.5 km/mi SE OF Whippoorwill Flat

Lat. 37° 0.3' Long. 118° 56.9' Elevation 5880' Quad. Waucoba Spring 15'

Sampler Turner

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

DESCRIPTION:

WATER TEMP. °C 26.5

DISCHARGE 1.5 gpm/lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 33°

DEPTH \_\_\_\_\_

ODOR No

BORE \_\_\_\_\_

FLUID COLOR Clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE None

STATIC HEAD \_\_\_\_\_

BUBBLING No

SCALING \_\_\_\_\_

BOILING No

TYPE OF PIPING \_\_\_\_\_

VEGETATION Green Algae, Willows

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM 1" steel pipe

ROCK DATA:  
TYPE (SURFACE) fine-grained, well cemented SS  
COLOR Black to tan (mn-oxide)

SALT:

GRAIN SIZE fine  
MEGASCOPIC MINERALS Qtz (in veins)

TYPE \_\_\_\_\_  
QUANTITY \_\_\_\_\_  
COLOR \_\_\_\_\_  
FORM \_\_\_\_\_

ALTERATION ?

SINTER:

RX TYPE (AT DEPTH) ?

TYPE \_\_\_\_\_  
QUANTITY \_\_\_\_\_  
COLOR \_\_\_\_\_  
FORM \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA USED FOR No obvious use

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION ?

PROPERTY OWNED BY BLM

PREVIOUS AND/OR CURRENT LEASES ?

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15869 Date 8/5/84 Time 2:00 PM

Name None Location: Co. Inyo State CA

Sec. 22 Twp. 17S R. 38E; ~3 km/mi SE OF Keeler, CA

Lat. 36° 26.8 Long. 117° 50.9 Elevation 3600 ft Quad. Keeler 15'

Sampler Turner

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

DESCRIPTION:

WATER TEMP. °C 30°

DISCHARGE 1 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 36°

DEPTH \_\_\_\_\_

ODOR No

BORE \_\_\_\_\_

FLUID COLOR Clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE None

STATIC HEAD \_\_\_\_\_

BUBBLING No

SCALING \_\_\_\_\_

BOILING No

TYPE OF PIPING \_\_\_\_\_

VEGETATION Grasses, Green Algae, Brun Alg ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM Seep

ROCK DATA:

TYPE (SURFACE) Gal (some Basalt frag)

COLOR \_\_\_\_\_

SALT:

GRAIN SIZE \_\_\_\_\_

TYPE \_\_\_\_\_

MEGASCOPIC \_\_\_\_\_

QUANTITY \_\_\_\_\_

MINERALS \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION No

SINTER:

RX TYPE (AT DEPTH) ?

TYPE \_\_\_\_\_

WATER USED FOR \_\_\_\_\_

QUANTITY \_\_\_\_\_

IMMEDIATE AREA \_\_\_\_\_

COLOR \_\_\_\_\_

USED FOR Livestock

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION ?

PROPERTY OWNED BY BLM

PREVIOUS AND/OR CURRENT LEASES ?

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15870 Date 8/6/84 Time 3:20 P.m.

Name Lower Centennial Spg Location: Co. Inyo State Calif

Sec. Not Surveyed Twp. 19S R. 39E; ~9.5 km(mi) W OF Darwin, Calif

Lat. 36° 16.0' Long. 117° 46' Elevation 5640' Quad. Keeler

Sampler Turner

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

DESCRIPTION:

WATER TEMP. °C 24°

DISCHARGE .5 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 32°

DEPTH \_\_\_\_\_

ODOR No

BORE \_\_\_\_\_

FLUID COLOR Clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE No

STATIC HEAD \_\_\_\_\_

BUBBLING No

SCALING \_\_\_\_\_

BOILING No

TYPE OF PIPING \_\_\_\_\_

VEGETATION Grass

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM 2" steel pipe

ROCK DATA:

TYPE (SURFACE) Granodiorite

COLOR Grey

GRAIN SIZE up to 1 cm

MEGASCOPIC MINERALS Bt, Qtz, Pg

SALT:

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION No

SINTER:

RX TYPE (AT DEPTH) ?

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA USED FOR Livestock

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION \_\_\_\_\_

PROPERTY OWNED BY BLM

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W 15871 Date 8/8/84 Time 3:00 PM  
Name China Garden Spring Location: Co. Inyo State CA  
Sec. 4 Twp. 19S R. 41E; ~4.6 km/mi NE OF Darwin, CA  
Lat. 36° 18.9' Long. ~~117° 31.9'~~ Elevation 3160' Quad. Darwin 15'  
Sampler Turner

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

DESCRIPTION:

WATER TEMP. °C 22°  
GROUND TEMP. °C \_\_\_\_\_  
AIR TEMP. 44°  
ODOR No  
FLUID COLOR Clear  
FLUID TASTE No  
BUBBLING No  
BOILING No

DISCHARGE 5 gpm/Lpm

WELL DATA:

DEPTH \_\_\_\_\_  
BORE \_\_\_\_\_  
PUMP TYPE \_\_\_\_\_  
STATIC HEAD \_\_\_\_\_  
SCALING \_\_\_\_\_  
TYPE OF PIPING \_\_\_\_\_  
ARTESIAN HEAD \_\_\_\_\_

VEGETATION Cottonwood, watercress, moss

FLUID ISSUES FROM 2 1/2" steel pipe

ROCK DATA:

TYPE (SURFACE) Basalt  
COLOR Black to dark red

SALT:

TYPE \_\_\_\_\_  
QUANTITY \_\_\_\_\_  
COLOR \_\_\_\_\_  
FORM \_\_\_\_\_

GRAIN SIZE \_\_\_\_\_  
MEGASCOPIC MINERALS \_\_\_\_\_

ALTERATION No

SINTER:

TYPE \_\_\_\_\_  
QUANTITY \_\_\_\_\_  
COLOR \_\_\_\_\_  
FORM \_\_\_\_\_

RX TYPE (AT DEPTH) \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA USED FOR No apparent use

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION \_\_\_\_\_

PROPERTY OWNED BY BLM

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W 15872 Date 8/12/84 Time 10:00 PM

Name None Location: Co. Kern State Calif

Sec. Not surveyed Twp. \_\_\_\_\_ R. \_\_\_\_\_ ; 0.4 km/mi South OF Kern City airport

Lat. 35° 42.9' Long. 118° 25' Elevation 2700 ft. Quad. Isabella Dan 15'

Sampler Turner

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

DESCRIPTION:

WATER TEMP. °C 27°

DISCHARGE 2 gpm/l pm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 41°

DEPTH \_\_\_\_\_

ODOR None

BORE \_\_\_\_\_

FLUID COLOR Clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE No

STATIC HEAD \_\_\_\_\_

BUBBLING No

SCALING \_\_\_\_\_

BOILING No

TYPE OF PIPING \_\_\_\_\_

VEGETATION Moss (Green), Grasses

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM 1" PVC pipe

ROCK DATA:

TYPE (SURFACE) Gneiss

COLOR White to pink

GRAIN SIZE up to 1cm

MEGASCOPIC MINERALS St, Az, Kfs

SALT:

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION None

SINTER:

RX TYPE (AT DEPTH) ?

TYPE \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA

QUANTITY \_\_\_\_\_

USED FOR Livestock

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION \_\_\_\_\_

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15873 Date 8/12/84 Time 1:30 PM

Name Sovereign hot Springs Location: Co. Kern State Calif

Sec. 31 Twp. 26S R. 33E ; N.5 km/mi North OF Lake Isabella

Lat. 35° 37' Long. 118° 26S' Elevation 2500' Quad. Lake Isabella South 7 1/2

Sampler Turner

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

DESCRIPTION:

WATER TEMP. °C 54°

DISCHARGE 30 (gpm/L pm)

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 38°

DEPTH ?

ODOR H<sub>2</sub>S

BORE 10"

FLUID COLOR Clear

PUMP TYPE ?

FLUID TASTE Too hot to drink

STATIC HEAD No

BUBBLING Yes

SCALING Yes

BOILING No

TYPE OF PIPING Steel

VEGETATION Brown algae

ARTESIAN HEAD Yes

FLUID ISSUES FROM 1 1/2" steel pipe

ROCK DATA:

artesian wells

TYPE (SURFACE) Bal

COLOR \_\_\_\_\_

SALT:

GRAIN SIZE  
MEGASCOPIC  
MINERALS \_\_\_\_\_

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION No

SINTER:

RX TYPE (AT DEPTH) ?

TYPE N

WATER USED FOR IMMEDIATE AREA Formerly as a spa  
USED FOR \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Artesian well dilled

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W 15874 Date 8/12/84 Time 5:00PM

Name None Location: Co. Keen State CA

Sec. 9 Twp. 27S R. 33E; ~2 km/mi SE OF Lake Isabella Dam

Lat. 35° 35.2' Long. 118° 28' Elevation 3080' Quad. Lake Isabella Dam 7 1/2'

Sampler Turner

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

DESCRIPTION:

WATER TEMP. °C 22°

DISCHARGE 5 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 33°

DEPTH \_\_\_\_\_

ODOR No

BORE \_\_\_\_\_

FLUID COLOR Abundant Fe-oxide (from pipe?)

PUMP TYPE \_\_\_\_\_

FLUID TASTE No

STATIC HEAD \_\_\_\_\_

BUBBLING No

SCALING \_\_\_\_\_

BOILING No

TYPE OF PIPING \_\_\_\_\_

VEGETATION Mossy willow

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM 2 1/2" steel pipe

ROCK DATA:

TYPE (SURFACE) Granite

COLOR White

GRAIN SIZE \_\_\_\_\_

MEGASCOPIC MINERALS Qz, Asp, Bt

SALT:

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION No

SINTER:

RX TYPE (AT DEPTH) ?

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA USED FOR Not apparent

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION \_\_\_\_\_

PROPERTY OWNED BY BLM?

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15975 Date 8/17/84 Time 1:00 PM

Name Point of Rocks Spring Location: Co. Nye State Nevada

Sec. N15E 7 Twp. 19S R. 51E; 06.5 km/mi East OF Amargosa Break

Lat. 36°24' Long. 116°16.4' Elevation 2314 Quad. Ash Meadows 15'

Sampler Tuener

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

DESCRIPTION:

WATER TEMP. °C 34°

DISCHARGE 50 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 39° C

DEPTH \_\_\_\_\_

ODOR Slight H<sub>2</sub>S

BORE \_\_\_\_\_

FLUID COLOR clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE No

STATIC HEAD \_\_\_\_\_

BUBBLING No

SCALING \_\_\_\_\_

BOILING No

TYPE OF PIPING \_\_\_\_\_

VEGETATION Brown Algae, reeds

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM tunnel in travertine  
ground.

ROCK DATA:

TYPE (SURFACE) Travertine, scoria, calcareous silt

COLOR tan

SALT:

GRAIN SIZE \_\_\_\_\_

TYPE \_\_\_\_\_

MEGASCOPIC MINERALS Calcite

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION No

SINTER:

RX TYPE (AT DEPTH) ?

TYPE Travertine

WATER USED FOR \_\_\_\_\_

QUANTITY Abundant

IMMEDIATE AREA USED FOR Irrigation

COLOR tan

FORM Calcite

QUALITY OF SAMPLE: (EXC.), GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Possibly fault?

PROPERTY OWNED BY Dept Fish + Wildlife

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15876 Date 8/17 Time 3:15

Name Crystal Pool Location: Co. Nye State Nevada

Sec. NE 3 Twp. 18S R. 50E; 45.5 km/mi East OF American Border

Lat. 36° 24.5' Long. 116° 18.5' Elevation 2200 Quad. Ash Meadows 15'

Sampler Turner

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

DESCRIPTION:

WATER TEMP. °C 32°

DISCHARGE ~ 50 gpm? gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 40°

DEPTH \_\_\_\_\_

ODOR No

BORE \_\_\_\_\_

FLUID COLOR Clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE No

STATIC HEAD \_\_\_\_\_

BUBBLING No

SCALING \_\_\_\_\_

BOILING No

TYPE OF PIPING \_\_\_\_\_

VEGETATION Algae, reeds

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM Bottom of a  
drop pool

ROCK DATA:

TYPE (SURFACE) Bas

COLOR \_\_\_\_\_

SALT:

GRAIN SIZE  
MEGASCOPIC  
MINERALS \_\_\_\_\_

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION Clay

SINTER:

RX TYPE (AT DEPTH) ?

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

WATER USED FOR  
IMMEDIATE AREA  
USED FOR Domestic use

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION \_\_\_\_\_

PROPERTY OWNED BY US Fish & Wildlife

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15877 Date 8/18/84 Time 10:30

Name Fairbanks Spring Location: Co. Nye State Nevada

Sec. 3E4NE1/4 9 Twp. N7S R. 50E ; 10 km/mi SSE OF Lathrop Wells

Lat. 36°29.5' Long. 116°20.5' Elevation 2280' Quad. Ash Meadows 15'

Sampler Turner

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

DESCRIPTION:

WATER TEMP. °C 26.5°

DISCHARGE ~100 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 31°

DEPTH \_\_\_\_\_

ODOR Slight H<sub>2</sub>S

BORE \_\_\_\_\_

FLUID COLOR Clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE No

STATIC HEAD \_\_\_\_\_

BUBBLING No

SCALING \_\_\_\_\_

BOILING No

TYPE OF PIPING \_\_\_\_\_

VEGETATION Grasses, Willows

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM Bottom of deep pond

ROCK DATA:

TYPE (SURFACE) Sol (clay)

COLOR White

GRAIN SIZE MEGASCOPIC MINERALS Clay

SALT:

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION Chy (kaol.)

SINTER:

RX TYPE (AT DEPTH) \_\_\_\_\_

TYPE \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA USED FOR None

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Fault?

PROPERTY OWNED BY BLM

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

Please send copy of report to: G.L. Coffey  
 Box 216  
 Beatty, NV 89003

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W 15978 Date 8/20 Time 11:00  
 Name \_\_\_\_\_ Location: Co. Nye State Nevada  
 Sec. NENW 14 Twp. 10S R. 47E; ~12 km/mi North OF Beatty, Nev  
 Lat. 37° 24.5' Long. 116° 38.5' Elevation ~4000' Quad. Thirsty Canyon  
 Sampler Turner

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

DESCRIPTION:

WATER TEMP. °C 27°  
 GROUND TEMP. °C \_\_\_\_\_  
 AIR TEMP. 31°  
 ODOR No  
 FLUID COLOR Clear  
 FLUID TASTE No  
 BUBBLING No  
 BOILING No

DISCHARGE 350 gpm/Lpm

WELL DATA:

DEPTH \_\_\_\_\_  
 BORE \_\_\_\_\_  
 PUMP TYPE \_\_\_\_\_  
 STATIC HEAD \_\_\_\_\_  
 SCALING \_\_\_\_\_  
 TYPE OF PIPING \_\_\_\_\_  
 ARTESIAN HEAD \_\_\_\_\_

VEGETATION Watercress, Cottonwood, algae

FLUID ISSUES FROM Spring @ bottom  
of deep farm pond  
rain previous day, may affect sample

ROCK DATA:

TYPE (SURFACE) Gal  
 COLOR \_\_\_\_\_  
 GRAIN SIZE \_\_\_\_\_  
 MEGASCOPIC MINERALS \_\_\_\_\_

SALT:

TYPE \_\_\_\_\_  
 QUANTITY \_\_\_\_\_  
 COLOR \_\_\_\_\_  
 FORM \_\_\_\_\_

ALTERATION No

SINTER:

TYPE \_\_\_\_\_  
 QUANTITY \_\_\_\_\_  
 COLOR \_\_\_\_\_  
 FORM \_\_\_\_\_

RX TYPE (AT DEPTH) ?  
 WATER USED FOR IMMEDIATE AREA USED FOR Irrigation

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION \_\_\_\_\_  
 PROPERTY OWNED BY G.L. Coffey  
 PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

Please send copy of report to: Mr + Mrs. J. Spicer  
P.O. Box 278  
Beatty, Nevada 89003

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15879 Date 8/20/84 Time 1:00 PM

Name North Pond Location: Co. Nye State Nevada

Sec. SW 3 Twp. 11S R. 47E : ~8 km/mi North OF Beatty, NV

Lat. 37° 0.4' Long. 116° 45' Elevation 3840' Quad. Thirsty Coy'n 15'

Sampler Turner

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

DESCRIPTION:

WATER TEMP. °C 25°

DISCHARGE 10 gpm gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 33°

DEPTH \_\_\_\_\_

ODOR No

BORE \_\_\_\_\_

FLUID COLOR Clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE No

STATIC HEAD \_\_\_\_\_

BUBBLING No

SCALING \_\_\_\_\_

BOILING No

TYPE OF PIPING \_\_\_\_\_

VEGETATION Grasses, Cottonwood

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM 1 1/2" PVC pipe

ROCK DATA:

TYPE (SURFACE) Gal

COLOR \_\_\_\_\_

GRAIN SIZE \_\_\_\_\_

MEGASCOPIC MINERALS \_\_\_\_\_

SALT:

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION No

SINTER:

RX TYPE (AT DEPTH) ?

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA Domestic + irrigation  
USED FOR \_\_\_\_\_

QUALITY OF SAMPLE: (EXC.), GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION \_\_\_\_\_

PROPERTY OWNED BY Mr + Mrs J. Spicer

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15923 Date 7/11/84 Time 12 Noon

Name Outlaw Spring Location: Co. Esmeralda State Nevada

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ R. \_\_\_\_\_ ; 6 km/mi East OF Day Lake

Lat. 39° 26.3' Long. 117° 39.5' Elevation 5960 Quad. Outlaw Springs

Sampler Turner

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

DESCRIPTION:

WATER TEMP. °C 17°

DISCHARGE .2 gpm/lpm

GROUND TEMP. °C ~~35°~~

WELL DATA:

AIR TEMP. 35°

DEPTH \_\_\_\_\_

ODOR None

BORE \_\_\_\_\_

FLUID COLOR Clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE None

STATIC HEAD \_\_\_\_\_

BUBBLING No

SCALING \_\_\_\_\_

BOILING No

TYPE OF PIPING \_\_\_\_\_

VEGETATION Grasses, Green Algae

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM 1" diam PVC pipe

ROCK DATA:

TYPE (SURFACE) Rhyolite

COLOR Pink

GRAIN SIZE Porphyritic Aphanitic  
MEGASCOPIC MINERALS Qtz, Kfs, Bt

SALT:

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION None

SINTER:

TYPE \_\_\_\_\_

RX TYPE (AT DEPTH) ?

QUANTITY \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA Cattle  
USED FOR \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION \_\_\_\_\_

PROPERTY OWNED BY BLM

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15924 Date 6-16-84 Time 12:15

Name York Spring Location: Co. Min. State Neu.

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ R. \_\_\_\_\_ ; 2 km(mi) SE OF Caladewa Summit

Lat. 38° 34' 30" N Long. 108° 05' W Elevation 6960 Quad. Sunrise Flat, 7.5'

Sampler Rik Canty

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

DESCRIPTION:

WATER TEMP. °C 13.5°C \* collected from pool in sunlight

DISCHARGE 21 gpm gpm/ft<sup>2</sup>

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 20.5°C

DEPTH \_\_\_\_\_

ODOR Acid, Rotting Organics

BORE \_\_\_\_\_

FLUID COLOR Very lr. green

PUMP TYPE \_\_\_\_\_

FLUID TASTE You've got to be kidding

STATIC HEAD \_\_\_\_\_

BUBBLING Slightly - probably organics

SCALING \_\_\_\_\_

BOILING \_\_\_\_\_

TYPE OF PIPING \_\_\_\_\_

VEGETATION Blackish Algae, Reeds, Grass

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM Adit - Oil on surface  
↳ Listed as spring on topo sheet

ROCK DATA:

TYPE (SURFACE) Granodiorite?

COLOR Greyish

GRAIN SIZE 0.5 - 2.0 mm

MEGASCOPIC MINERALS Qtz, Feldspar, Biotite

SALT:

TYPE NaHCO<sub>3</sub>?

QUANTITY Rare

COLOR White

FORM Surface coating on rocks

ALTERATION Qtz veins

SINTER:

TYPE \_\_\_\_\_

RX TYPE (AT DEPTH) ?

QUANTITY \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA Stock - apparently potable

COLOR \_\_\_\_\_

USED FOR grazing?

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Flow of groundwater along fractures

PROPERTY OWNED BY ? BLM

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15926 Date 6-17-84 Time 3:50

Name Benton Spring Location: Co. Mtn. State Nev.

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ R. \_\_\_\_\_ ; 8 km(mi) NNW OF Luning

Lat. 37° 41.4' Long. 118° 50.3' Elevation 5840 Quad. Luning 7.5'

Sampler Rik Lantz

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

DESCRIPTION:

WATER TEMP. °C 22

DISCHARGE 1-2 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 22.5

DEPTH \_\_\_\_\_

ODOR Vegetation

BORE \_\_\_\_\_

FLUID COLOR slightly greenish

PUMP TYPE \_\_\_\_\_

FLUID TASTE -

STATIC HEAD \_\_\_\_\_

BUBBLING -

SCALING \_\_\_\_\_

BOILING -

TYPE OF PIPING \_\_\_\_\_

VEGETATION Grass, Green Algae

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM PVC pipe (3" diam) leading from Adit. Samples taken from cattle trough

ROCK DATA:

TYPE (SURFACE) Bleached Crystal Tuff

COLOR White

GRAIN SIZE MEGASCOPIC MINERALS Qtz, Feldspar

SALT:

TYPE \_\_\_\_\_  
QUANTITY \_\_\_\_\_  
COLOR \_\_\_\_\_  
FORM \_\_\_\_\_

ALTERATION Bleaching, Limonite staining

SINTER:

TYPE \_\_\_\_\_  
QUANTITY \_\_\_\_\_  
COLOR \_\_\_\_\_  
FORM \_\_\_\_\_

RX TYPE (AT DEPTH) ?

WATER USED FOR IMMEDIATE AREA USED FOR Cattle Grazing, Milking

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Movement along fractures

PROPERTY OWNED BY \_\_\_\_\_

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15931 Date 6/18/84 Time 5:30 P.M.

Name Buckham Tanks Location: Co. Mineral State NV

Sec. 16 Twp. 5N R. 29E ; ~1.5 km(mi) N OF Alkali Lake

Lat. 38° 18' N Long. 118° 45' Elevation 7100 ft Quad. Aucora

Sampler Turner

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

DESCRIPTION:

WATER TEMP. °C 16°C

DISCHARGE \_\_\_\_\_ gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 23.5°C

DEPTH \_\_\_\_\_

ODOR None

BORE \_\_\_\_\_

FLUID COLOR Clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE None

STATIC HEAD \_\_\_\_\_

BUBBLING No

SCALING \_\_\_\_\_

BOILING No

TYPE OF PIPING \_\_\_\_\_

VEGETATION Grasses, Algae

ARTESIAN HEAD Yes

FLUID ISSUES FROM 1" diam PVC pipe into tank

ROCK DATA:

TYPE (SURFACE) Qal (vesicular some basalt boulders)

COLOR Red-Pink

SALT:

GRAIN SIZE \_\_\_\_\_  
MEGASCOPIC MINERALS \_\_\_\_\_

~~TYPE \_\_\_\_\_  
QUANTITY \_\_\_\_\_  
COLOR \_\_\_\_\_  
FORM \_\_\_\_\_~~

ALTERATION \_\_\_\_\_

SINTER:

RX TYPE (AT DEPTH) \_\_\_\_\_

~~TYPE \_\_\_\_\_  
QUANTITY \_\_\_\_\_  
COLOR \_\_\_\_\_  
FORM \_\_\_\_\_~~

WATER USED FOR IMMEDIATE AREA USED FOR \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Underground aquifer

PROPERTY OWNED BY BLM

PREVIOUS AND/OR CURRENT LEASES ?

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. W 15932 Sample No. \_\_\_\_\_ Date 6/24/84 Time 2:15 P.M

Name None Location: Co. Mineral State Nevada

Sec. ↖ Twp. 6 N R. 36 E ; 01 km/mi East OF Section 12, R35E

Lat. 38° 23' N Long. 118° 15' Elevation 6400 ft Quad. Mina

Sampler \_\_\_\_\_

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

DESCRIPTION:

WATER TEMP. °C 140C

DISCHARGE 1 gpm/Lpm

GROUND TEMP. °C ~~31~~

WELL DATA:

AIR TEMP. ~~31~~ 31°

DEPTH \_\_\_\_\_

ODOR None

BORE \_\_\_\_\_

FLUID COLOR None, Clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE Clear

STATIC HEAD \_\_\_\_\_

BUBBLING No

SCALING \_\_\_\_\_

BOILING No

TYPE OF PIPING \_\_\_\_\_

VEGETATION Watercress, grass

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM 2" PVC pipe

ROCK DATA:

TYPE (SURFACE) Gossan

COLOR Red-Black

GRAIN SIZE Very fine grain

MEGASCOPIC MINERALS Too fine grained

SALT:

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION Mn-oxide stain  
Fe-oxide stain

SINTER:

RX TYPE (AT DEPTH) ?

TYPE \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA ?

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION \_\_\_\_\_

PROPERTY OWNED BY \_\_\_\_\_

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15937 Date 6-18-84 Time 12:00

Name Tom Spring Location: Co. Min State Neu

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ R. 10 km(mi) N OF Luning

Lat. 38°43'46" Long. 118°10' Elevation 5060 Quad. Mt. Ferguson T.S.

Sampler Pik Conter

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

DESCRIPTION:

WATER TEMP. °C 18.50

DISCHARGE 1-2 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 19.50

DEPTH \_\_\_\_\_

ODOR Plants

BORE \_\_\_\_\_

FLUID COLOR clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE —

STATIC HEAD \_\_\_\_\_

BUBBLING —

SCALING \_\_\_\_\_

BOILING —

TYPE OF PIPING \_\_\_\_\_

VEGETATION Grass, Algae

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM Drips from Green

ROCK DATA:

Algae Covered Grass

TYPE (SURFACE) Shales

COLOR Variable

SALT:

GRAIN SIZE Fine  
MEGASCOPIC MINERALS \_\_\_\_\_

TYPE Slightly Calcareous

QUANTITY Common

COLOR White

FORM Coats dirt around  
spring

ALTERATION \_\_\_\_\_

SINTER:

RX TYPE (AT DEPTH) \_\_\_\_\_

TYPE \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA Not used  
USED FOR irrigating

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION movement along fractures

PROPERTY OWNED BY \_\_\_\_\_

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15939 Date 6-18-84 Time 2:30

Name Indian Spring Location: Co. Mia, State Neu.

Sec. 38° 39' 45" Twp. 118° 14' 30" R. 1200 ; 14 km(mi) NW OF Luning

Lat. 38° 39' 45" Long. 118° 14' 30" Elevation 6800 Quad. Mt. Ferguson

Sampler Rik Lantz

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

DESCRIPTION:

WATER TEMP. °C 18.5

DISCHARGE ~3 (gpm/Lpm)

GROUND TEMP. °C \_\_\_\_\_

WELL DATA: Drill pipe present, may have been drilled

AIR TEMP. 22.5

DEPTH \_\_\_\_\_

ODOR -

BORE \_\_\_\_\_

FLUID COLOR Clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE -

STATIC HEAD \_\_\_\_\_

BUBBLING -

SCALING \_\_\_\_\_

BOILING -

TYPE OF PIPING \_\_\_\_\_

VEGETATION Watercress

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM 3' culvert and

ROCK DATA:

tube leading to Cattle Trough

TYPE (SURFACE) Porphyritic Basalt

COLOR Purplish Grey (Dark)

GRAIN SIZE 2-7mm Phenocrysts

MEGASCOPIC MINERALS Plagioclase,

Biotite

SALT: TYPE \_\_\_\_\_ QUANTITY \_\_\_\_\_ COLOR \_\_\_\_\_ FORM \_\_\_\_\_

ALTERATION None

SINTER: TYPE \_\_\_\_\_ QUANTITY \_\_\_\_\_ COLOR \_\_\_\_\_ FORM \_\_\_\_\_

RX TYPE (AT DEPTH) ?

WATER USED FOR IMMEDIATE AREA Cattle

USED FOR Cattle

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION drilled ?

PROPERTY OWNED BY \_\_\_\_\_

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15940 Date June 21, 1984 Time 10:30

Name Kinkaid Mine Well Location: Co. Min. State Neu.

Sec. 23 Twp. 8N R. 32E; ~10 km/mi W OF Luning

Lat. 38°32'40" Long. 118°23' Elevation 4390 Quad. Kinkaid 7.5

Sampler Rik Lantz

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

DESCRIPTION:

WATER TEMP. °C 23.5

DISCHARGE 50 (gpm)/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 20.5

DEPTH at least 35 m

ODOR -

BORE 9"

FLUID COLOR - ~~clear~~ clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE -

STATIC HEAD - 20-25 m.

BUBBLING -

SCALING Lots of Rust

BOILING -

TYPE OF PIPING Steel

VEGETATION -

ARTESIAN HEAD -

FLUID ISSUES FROM Well casing

ROCK DATA:

TYPE (SURFACE) Alluvium

COLOR \_\_\_\_\_

GRAIN SIZE  
MEGASCOPIC  
MINERALS \_\_\_\_\_

SALT:

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION \_\_\_\_\_

SINTER:

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

RX TYPE (AT DEPTH) ?

WATER USED FOR IMMEDIATE AREA  
USED FOR Mining Operations, Stock  
Grazing

QUALITY OF SAMPLE (EXC.), GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Well

PROPERTY OWNED BY Kinkaid Mine

PREVIOUS AND/OR CURRENT LEASES ?

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15941 Date June 27 Time 4:00  
Name Army Well #1 Location: Co. Min State Nev  
Sec. 17 Twp. 8N R. 30E ; 1.5 km(mi) NW OF Rabbit  
Lat. ~~118° 39' W~~ 38° 33' 30" N Long. 118° 39' W Elevation 4140 Quad. Hawthorne 15'  
Sampler Rik Lantz

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

DESCRIPTION:

WATER TEMP. °C 42° DISCHARGE 500 ~~gpm~~ (gpm) Lpm  
GROUND TEMP. °C \_\_\_\_\_ FLOW intermittent  
AIR TEMP. 36° DEPTH ? 345'  
ODOR - BORE ?  
FLUID COLOR clear PUMP TYPE \_\_\_\_\_  
FLUID TASTE - STATIC HEAD \_\_\_\_\_  
BUBBLING - SCALING \_\_\_\_\_  
BOILING - TYPE OF PIPING steel  
VEGETATION - ARTESIAN HEAD \_\_\_\_\_  
FLUID ISSUES FROM Well Pipe ROCK DATA:

TYPE (SURFACE) Gal  
COLOR \_\_\_\_\_

SALT:

TYPE \_\_\_\_\_ GRAIN SIZE \_\_\_\_\_  
QUANTITY \_\_\_\_\_ MEGASCOPIC \_\_\_\_\_  
COLOR \_\_\_\_\_ MINERALS \_\_\_\_\_  
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 well drilled

PROPERTY OWNED BY Army

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15947 Date 7-7-84 Time 4:15

Name McIntyre Quad Well Location: Co. Nye State Nev

Sec. 6 Twp. 6N R. 49E; \_\_\_\_\_ km/mi \_\_\_\_\_ OF \_\_\_\_\_

Lat. 38°24' Long. 116°32' Elevation 6325 Quad. McIntyre 7 1/2'

Sampler Rick Lantry

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

DESCRIPTION:

WATER TEMP. °C 21°

DISCHARGE 5 (gpm)/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 26°

DEPTH unknown

ODOR -

BORE (probably shallow)

FLUID COLOR -

PUMP TYPE \_\_\_\_\_

FLUID TASTE -

STATIC HEAD \_\_\_\_\_

BUBBLING -

SCALING \_\_\_\_\_

BOILING -

TYPE OF PIPING 1" pipe

VEGETATION green algae

ARTESIAN HEAD ~ 3"

FLUID ISSUES FROM 1" pipe

ROCK DATA:

TYPE (SURFACE) gal

COLOR \_\_\_\_\_

SALT:

GRAIN SIZE \_\_\_\_\_

TYPE \_\_\_\_\_

MEGASCOPIC \_\_\_\_\_

QUANTITY \_\_\_\_\_

MINERALS \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION \_\_\_\_\_

SINTER:

RX TYPE (AT DEPTH) volcanic

TYPE \_\_\_\_\_

WATER USED FOR stock

QUANTITY \_\_\_\_\_

IMMEDIATE AREA \_\_\_\_\_

COLOR \_\_\_\_\_

USED FOR grazing

FORM \_\_\_\_\_

QUALITY OF SAMPLE: (EXC.), GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Drilling

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES ?

S. Tip of Range Next to Point Rock  
Spring, Monitor Range (Tonapah AMS)

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15948 Date 7-2-84 Time 12:05

Name Fourmile Spring Location: Co. Nye State Nev.

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ R. \_\_\_\_\_ ; 25 km(mi) ~~25~~ ENE OF Tonapah

Lat. 38° 12' N Long. 116° 43' Elevation 5950 Quad. Tonapah AMS

Sampler \_\_\_\_\_

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

DESCRIPTION:

WATER TEMP. °C 29

DISCHARGE 10 (gpm)/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 34

DEPTH \_\_\_\_\_

ODOR Organic

BORE \_\_\_\_\_

FLUID COLOR cloudy, greyish

PUMP TYPE \_\_\_\_\_

FLUID TASTE -

STATIC HEAD \_\_\_\_\_

BUBBLING -

SCALING \_\_\_\_\_

BOILING -

TYPE OF PIPING \_\_\_\_\_

VEGETATION Lots of green Algae

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM around

ROCK DATA:

TYPE (SURFACE) Igneimbrite (?)

COLOR Brown

GRAIN SIZE Varies  
MEGASCOPIC  
MINERALS \_\_\_\_\_

SALT:

TYPE \_\_\_\_\_  
QUANTITY \_\_\_\_\_  
COLOR \_\_\_\_\_  
FORM \_\_\_\_\_

ALTERATION deacidification, silicification

SINTER:

TYPE \_\_\_\_\_  
QUANTITY \_\_\_\_\_  
COLOR \_\_\_\_\_  
FORM \_\_\_\_\_

RX TYPE (AT DEPTH) ?  
WATER USED FOR IMMEDIATE AREA Stock  
USED FOR Stock

QUALITY OF SAMPLE: EXC. (GOOD) POOR

PROBABLE CAUSE OF MANIFESTATION Ground Water Table

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15949 Date 7-2-84 Time 1:00

Name Horse Corral Spring Location: Co. Nye State Nev.

Sec. 50 Twp. 5N R. 47E; 25 km(mi) ENE OF Touapeah

Lat. 38° 17' 30" N Long. 116° 42' 45" W Elevation 6430 Quad. Georges Canyon Rim 75

Sampler Rik Lantz

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

DESCRIPTION:

(hard to tell)

WATER TEMP. °C 18°

DISCHARGE ~ 5 gpm (gpm) Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 27°

DEPTH \_\_\_\_\_

ODOR None

BORE \_\_\_\_\_

FLUID COLOR Clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE -

STATIC HEAD \_\_\_\_\_

BUBBLING -

SCALING \_\_\_\_\_

BOILING -

TYPE OF PIPING \_\_\_\_\_

VEGETATION Moss, Grass

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM Ground

ROCK DATA:

TYPE (SURFACE) Tuamotian?

COLOR Brown

GRAIN SIZE Varies  
MEGASCOPIC MINERALS \_\_\_\_\_

SALT:

TYPE CaCO3

QUANTITY Abundant

COLOR White to Brown

FORM Encrusts Plants & Ground

ALTERATION Rehydration

SINTER:

RX TYPE (AT DEPTH) ?

TYPE \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA Horses  
USED FOR Corral

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Ground Water Table

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES ?

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15951 Date 7-3-84 Time 2:50

Name Mean Looking Bull Spring Location: Co. Nye State Nev

Sec. \_\_\_\_\_ Twp. 9N R. 4TE; 1 km(mi) SE OF Barkley Creek Ranch

Lat. 38° 37' Long. 116° 41' 30" Elevation 7500 Quad. Elkhorn Canyon

Sampler Rick Lantz

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

DESCRIPTION:

WATER TEMP. °C 25° May have heated up DISCHARGE 2-3 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_ standing in meadow WELL DATA:

AIR TEMP. 31° DEPTH \_\_\_\_\_

ODOR - BORE \_\_\_\_\_

FLUID COLOR clear PUMP TYPE \_\_\_\_\_

FLUID TASTE - STATIC HEAD \_\_\_\_\_

BUBBLING - SCALING \_\_\_\_\_

BOILING - TYPE OF PIPING \_\_\_\_\_

VEGETATION Crabgrass & Moss ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM Ground ROCK DATA:

TYPE (SURFACE) Gal

COLOR \_\_\_\_\_

GRAIN SIZE \_\_\_\_\_

MEGASCOPIC MINERALS \_\_\_\_\_

SALT:

TYPE \_\_\_\_\_

QUANTITY None

COLOR \_\_\_\_\_

FORM \_\_\_\_\_ ALTERATION \_\_\_\_\_

SINTER:

RX TYPE (AT DEPTH) ?

TYPE \_\_\_\_\_ WATER USED FOR IMMEDIATE AREA Cattle

QUANTITY \_\_\_\_\_ USED FOR Ranch

COLOR \_\_\_\_\_

FORM \_\_\_\_\_ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Groundwater Table

PROPERTY OWNED BY ? Toiyabe Natl Forest

PREVIOUS AND/OR CURRENT LEASES ?

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15955 Date 7-8-84 Time 9:30

Name Colocoran Canyon Spring #1 Location: Co. Nye State Nev.

Sec. \_\_\_\_\_ Twp. 10N R. 46E ; 1 km(mi) W OF Stone House Ranch

Lat. 38° 41' Long. 116° 48' 30" Elevation 7280 Quad. Colocoran Canyon

Sampler Rick County

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

DESCRIPTION:

WATER TEMP. °C 18.5°

DISCHARGE 10 (gpm) Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 23.50

DEPTH \_\_\_\_\_

ODOR -

BORE \_\_\_\_\_

FLUID COLOR Clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE -

STATIC HEAD \_\_\_\_\_

BUBBLING -

SCALING \_\_\_\_\_

BOILING -

TYPE OF PIPING \_\_\_\_\_

VEGETATION Green Algae, <sup>short</sup> Reeds

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM Ground

ROCK DATA:

TYPE (SURFACE) Crystalline Igneous

COLOR Reddish Tan

GRAIN SIZE 1-2 mm phenocrysts  
MEGASCOPIC MINERALS \_\_\_\_\_

SALT:

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION Limonaire staining, silicification (?)

SINTER:

TYPE \_\_\_\_\_

RX TYPE (AT DEPTH) ?

QUANTITY \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA Stock  
USED FOR Stock

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Ground Water table

PROPERTY OWNED BY Mr. Hage (probably)

PREVIOUS AND/OR CURRENT LEASES ?

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15956 Date 7-8-84 Time 12:30

Name Salt Flat Spring Location: Co. Nye State Nev

Sec. SW NW sec 5 Twp. 11N R. 47E ; 4.5 km(mi) SW OF Morgan Ranch

Lat. 38° 49' 30" Long. 116° 43' Elevation 6830 Quad. Mosquito Creek

Sampler Rik Cantz

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

DESCRIPTION:

WATER TEMP. °C 33°

DISCHARGE 5 (gpm) Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 31°

DEPTH \_\_\_\_\_

ODOR slight H<sub>2</sub>S

BORE \_\_\_\_\_

FLUID COLOR clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE —

STATIC HEAD \_\_\_\_\_

BUBBLING occasionally

SCALING \_\_\_\_\_

BOILING —

TYPE OF PIPING \_\_\_\_\_

VEGETATION Reeds, Green & Rust Colored Algae

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM Ground

ROCK DATA:

TYPE (SURFACE) Qal

COLOR \_\_\_\_\_

SALT:

TYPE CaCO<sub>3</sub> NaHCO<sub>3</sub> (?)

GRAIN SIZE  
MEGASCOPIC  
MINERALS \_\_\_\_\_

QUANTITY Abundant

Bitter  
taste  
& Baking Soda  
taste

COLOR White, yellowish tan

FORM Encrusts plants & ground

ALTERATION \_\_\_\_\_

SINTER:

RX TYPE (AT DEPTH) \_\_\_\_\_

TYPE \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA  
USED FOR Stock

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: (EXC.), GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Groundwater

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES ?

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15957 Date 7-8-84 Time 4:15  
Name Parco Canyon Spring Location: Co. Nye State Nev  
Sec. 1 Twp. 11N R. 45E ; 3 km(mi) NW OF Pine Creek Ranch  
Lat. 38° 49' 30" Long. 116° 51' Elevation 7390 Quad. Pine Creek Ranch  
Sampler Rik Lantz

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

DESCRIPTION:

WATER TEMP. °C 18° DISCHARGE 25 (gpm/l) pm  
GROUND TEMP. °C \_\_\_\_\_ WELL DATA:  
AIR TEMP. 23° DEPTH \_\_\_\_\_  
ODOR — BORE \_\_\_\_\_  
FLUID COLOR Clear PUMP TYPE \_\_\_\_\_  
FLUID TASTE — STATIC HEAD \_\_\_\_\_  
BUBBLING — SCALING \_\_\_\_\_  
BOILING — TYPE OF PIPING \_\_\_\_\_  
VEGETATION Reeds Grass ARTESIAN HEAD \_\_\_\_\_  
FLUID ISSUES FROM Ground ROCK DATA:  
TYPE (SURFACE) Gal  
COLOR \_\_\_\_\_

SALT:

TYPE \_\_\_\_\_ GRAIN SIZE \_\_\_\_\_  
QUANTITY \_\_\_\_\_ MEGASCOPIC \_\_\_\_\_  
COLOR \_\_\_\_\_ MINERALS \_\_\_\_\_  
FORM \_\_\_\_\_ ALTERATION \_\_\_\_\_

SINTER:

TYPE \_\_\_\_\_ RX TYPE (AT DEPTH) ?  
QUANTITY \_\_\_\_\_ WATER USED FOR IMMEDIATE AREA Not used  
COLOR \_\_\_\_\_ USED FOR Stock  
FORM \_\_\_\_\_ QUALITY OF SAMPLE: EXC. GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Groundwater Table  
PROPERTY OWNED BY ? BLM ?  
PREVIOUS AND/OR CURRENT LEASES ?

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15958 Date 7-9-84 Time 2:00

Name Desolate Spring Location: Co. Nye State Nevo.

Sec. 13 Twp. 2N R. 47E; 2 km(mi) SW OF Moroni

Lat. 38 02 Long. 116°40' Elevation 5590 Quad. Tonapah AMS

Sampler Rick Lantz

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

DESCRIPTION:

WATER TEMP. °C 26

DISCHARGE 2-3 (gpm)/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA: intermittant

AIR TEMP. 24

DEPTH \_\_\_\_\_

ODOR —

BORE \_\_\_\_\_

FLUID COLOR clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE —

STATIC HEAD \_\_\_\_\_

BUBBLING Intermittently, vigorously

SCALING \_\_\_\_\_

BOILING —

TYPE OF PIPING \_\_\_\_\_

VEGETATION None

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM ground, probably buried pipe

ROCK DATA:

TYPE (SURFACE) cherty limestone Cg<sup>1</sup>

COLOR white to lt. grey

GRAIN SIZE fine matrix, 1-5cm clasts  
MEGASCOPIC MINERALS \_\_\_\_\_

SALT:

TYPE \_\_\_\_\_

QUANTITY absent

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION None evident

SINTER:

RX TYPE (AT DEPTH) \_\_\_\_\_

TYPE \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA stock

QUANTITY \_\_\_\_\_

USED FOR stock

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION ground water table

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES ?

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W 15961 Date 7-11-84 Time 2:00

Name Mickinney Tanks Spring Location: Co. Nye State Nev.

Sec. 23 Twp. 3N R. 45E ; 14 km (mi) W OF Tonopah

Lat. 38° 06' N Long. 116° 55' E Elevation 6300 Quad. Tonopah AMS

Sampler Rik Lantz

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

DESCRIPTION:

WATER TEMP. °C 24°

DISCHARGE 1 pm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA: \_\_\_\_\_

AIR TEMP. 33°

DEPTH ?

ODOR —

BORE \_\_\_\_\_

FLUID COLOR clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE —

STATIC HEAD \_\_\_\_\_

BUBBLING —

SCALING \_\_\_\_\_

BOILING —

TYPE OF PIPING \_\_\_\_\_

VEGETATION Reeds, Grass

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM 2" steel pipe

ROCK DATA: \_\_\_\_\_

(but the pipe is buried, so it's not heating up because of the sun)

TYPE (SURFACE) crystal tuff

COLOR Reddish Grey

SALT:

GRAIN SIZE 1-3 mm

TYPE \_\_\_\_\_

MEGASCOPIC MINERALS Plag, Qtz, Biotite

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

ALTERATION CaCO<sub>3</sub>, yellowish staining (low)

FORM \_\_\_\_\_

RX TYPE (AT DEPTH) \_\_\_\_\_

SINTER:

TYPE \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA stock

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Groundwater table

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15963 Date 7-16-84 Time 1:00

Name Fangs Ridge Spring Location: Co. Nye State Nev

Sec. \_\_\_\_\_ Twp. 1N R. S2E ; 4.5 km/mi SW OF Fred's Well

Lat. 39°58' Long. 116°07' Elevation 5820 Quad. Reveille Peak

Sampler Rik Lantz

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

DESCRIPTION:

WATER TEMP. °C 18

DISCHARGE 2 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 25.50

DEPTH \_\_\_\_\_

ODOR None

BORE \_\_\_\_\_

FLUID COLOR Clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE -

STATIC HEAD \_\_\_\_\_

BUBBLING No

SCALING \_\_\_\_\_

BOILING No

TYPE OF PIPING \_\_\_\_\_

VEGETATION Reeds, Algae (Green)

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM 2 1/2" PVC pipe

ROCK DATA:

TYPE (SURFACE) Vesicular Lithic Tuff

COLOR Reddish Brn.

GRAIN SIZE Clasts 2-15mm

MEGASCOPIC MINERALS Igneous Fragments

SALT:

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION Some CaCO<sub>3</sub> Veining

SINTER:

RX TYPE (AT DEPTH) ?

TYPE \_\_\_\_\_

WATER USED FOR stock

QUANTITY \_\_\_\_\_

IMMEDIATE AREA USED FOR Stock

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Flow along Fault.

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES ?



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15964 Date 7-16-84 Time 2:50  
Name Coder Pipeline Ranch Artesian Location: Co. Nyo State New.  
Sec. 21 Twp. 2S R. 52E ; 7 km(mi) SSE OF Revielle Peak  
Lat. 37° 45' Long. 116° 07' Elevation 3600 Quad. Revielle Peak  
Sampler Rik Cant?

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

DESCRIPTION:

WATER TEMP. °C 26 DISCHARGE 10 (gpm/Lpm)  
GROUND TEMP. °C \_\_\_\_\_ WELL DATA:  
AIR TEMP. 30 DEPTH ?  
ODOR None BORE \_\_\_\_\_  
FLUID COLOR Clear PUMP TYPE \_\_\_\_\_  
FLUID TASTE — STATIC HEAD \_\_\_\_\_  
BUBBLING — SCALING \_\_\_\_\_  
BOILING — TYPE OF PIPING 3" steel  
VEGETATION Green Algae Cottonwood Trees ARTESIAN HEAD Shoots 4' horizontally from 0.5cm diameter aperture  
FLUID ISSUES FROM 3" steel pipe ROCK DATA:  
TYPE (SURFACE) Gal  
COLOR \_\_\_\_\_  
GRAIN SIZE \_\_\_\_\_  
MEGASCOPIC MINERALS \_\_\_\_\_  
ALTERATION \_\_\_\_\_  
RX TYPE (AT DEPTH) \_\_\_\_\_  
SALT: TYPE \_\_\_\_\_ WATER USED FOR Stock  
QUANTITY \_\_\_\_\_ IMMEDIATE AREA USED FOR Stock  
COLOR \_\_\_\_\_  
FORM \_\_\_\_\_  
SINTER: TYPE \_\_\_\_\_  
QUANTITY \_\_\_\_\_  
COLOR \_\_\_\_\_  
FORM \_\_\_\_\_ QUALITY OF SAMPLE EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Drill Hole  
PROPERTY OWNED BY ?  
PREVIOUS AND/OR CURRENT LEASES ?

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15965 Date 7-16-84 Time 4:00

Name Corral Artesian Well Location: Co. Nye State Nev.

Sec. NENW 7 Twp. 1N R. 51E ; 4.5 km(mi) SE OF Eden Creek Ranch

Lat. 37°57' Long. 116°19' Elevation 6060 Quad. Kanich Peak

Sampler Rick Cantz

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

DESCRIPTION:

WATER TEMP. °C 21 DISCHARGE 20 (gpm/Lpm)

GROUND TEMP. °C \_\_\_\_\_ WELL DATA:

AIR TEMP. 31 DEPTH ?

ODOR None BORE \_\_\_\_\_

FLUID COLOR clear PUMP TYPE No Pump

FLUID TASTE - STATIC HEAD \_\_\_\_\_

BUBBLING -(occasionally) SCALING \_\_\_\_\_

BOILING - TYPE OF PIPING \_\_\_\_\_

VEGETATION Onn Alope, WaterCress, Grass ARTESIAN HEAD 2"

FLUID ISSUES FROM 1" steel pipe ROCK DATA:

TYPE (SURFACE) Gal

COLOR \_\_\_\_\_

GRAIN SIZE \_\_\_\_\_  
MEGASCOPIC MINERALS \_\_\_\_\_

SALT:

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_ ALTERATION \_\_\_\_\_

SINTER:

TYPE \_\_\_\_\_ RX TYPE (AT DEPTH) Basalt ?

QUANTITY \_\_\_\_\_ WATER USED FOR IMMEDIATE AREA Stock

COLOR \_\_\_\_\_ USED FOR Stock

FORM \_\_\_\_\_ QUALITY OF SAMPLE EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Drilled

PROPERTY OWNED BY \_\_\_\_\_

PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15966 Date 7-18-84 Time 1:20  
Name Sage Quail Spring Location: Co. Lyon State Nev.  
Sec. NE Sec 34 Twp. 9N R. 26E ; 3 km(mi) W OF Flying M Ranch  
Lat. 38°37' Long. 119°03' Elevation 5920 Quad. Pine Grove Hills  
Sampler Rik Lantz

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

DESCRIPTION:

WATER TEMP. °C 26°  
GROUND TEMP. °C \_\_\_\_\_  
AIR TEMP. 25°  
ODOR Strong H<sub>2</sub>S  
FLUID COLOR Clear  
FLUID TASTE -  
BUBBLING -  
BOILING -  
VEGETATION Reds, Olive Grn Algae  
FLUID ISSUES FROM 1 1/2" PVC pipe  
(pipe is buried)

DISCHARGE 1 gpm / Lpm  
WELL DATA:  
DEPTH \_\_\_\_\_  
BORE \_\_\_\_\_  
PUMP TYPE \_\_\_\_\_  
STATIC HEAD \_\_\_\_\_  
SCALING \_\_\_\_\_  
TYPE OF PIPING \_\_\_\_\_  
ARTESIAN HEAD \_\_\_\_\_

SALT:  
TYPE \_\_\_\_\_  
QUANTITY \_\_\_\_\_  
COLOR \_\_\_\_\_  
FORM \_\_\_\_\_

ROCK DATA:  
TYPE (SURFACE) Gneiss  
COLOR Varies  
GRAIN SIZE 5-8 mm  
MEGASCOPIC MINERALS Qtz, Plag, Biotite

SINTER:  
TYPE \_\_\_\_\_  
QUANTITY \_\_\_\_\_  
COLOR \_\_\_\_\_  
FORM \_\_\_\_\_

ALTERATION Fe staining, Argillic  
RX TYPE (AT DEPTH) ? Intensely Fractured  
WATER USED FOR IMMEDIATE AREA stock  
USED FOR stock

QUALITY OF SAMPLE: EXC. GOOD, POOR  
PROBABLE CAUSE OF MANIFESTATION Ground Water Table  
PROPERTY OWNED BY ?  
PREVIOUS AND/OR CURRENT LEASES ?

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15969 Date 7-21 Time 2:30

Name Indian Spring Location: Co. Mono State CA

Sec. 17 Twp. 10N R. 22E; 3 km(mi) NW OF Topaz Lake

Lat. 38° 43' Long. 119° 35' Elevation 7520 Quad. Topaz Lake

Sampler Rick Lantz

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

DESCRIPTION:

WATER TEMP. °C 24°

DISCHARGE 8-10 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 21°

DEPTH \_\_\_\_\_

ODOR \_\_\_\_\_

BORE \_\_\_\_\_

FLUID COLOR \_\_\_\_\_

PUMP TYPE \_\_\_\_\_

FLUID TASTE \_\_\_\_\_

STATIC HEAD \_\_\_\_\_

BUBBLING -

SCALING \_\_\_\_\_

BOILING -

TYPE OF PIPING \_\_\_\_\_

VEGETATION Water Cross, Reeds, Grass

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM Ground

ROCK DATA:

TYPE (SURFACE) Schist

COLOR Tan to Black

GRAIN SIZE Aphanitic  
MEGASCOPIC MINERALS \_\_\_\_\_

SALT:

TYPE \_\_\_\_\_

QUANTITY Absent.

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION CaCO<sub>3</sub> veining

SINTER:

RX TYPE (AT DEPTH) \_\_\_\_\_

TYPE \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA Stock  
USED FOR Stock? or

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

Wald Forest.

FORM \_\_\_\_\_

QUALITY OF SAMPLE: Exc., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Water Table

PROPERTY OWNED BY ? BLM?

PREVIOUS AND/OR CURRENT LEASES ?

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15970 Date 7-23-88 Time 11:50

Name unnamed Artesian Location: Co. Mono State Ca.

Sec. NENE sec 25 Twp. 1N R. 27E; 2.5 km (mi) NE OF Mono Mills

Lat. 37° 55' Long. 118° 56' Elevation 7000 Quad. Cow track Mon

Sampler Rik Lantz

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

DESCRIPTION:

WATER TEMP. °C 18.5

DISCHARGE Intermittent 0-10 (gpm/Lpm)

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 25

DEPTH ? Looks Shallow  
BORE (pipe enters ground at an angle)

ODOR \_\_\_\_\_

FLUID COLOR Clear

PUMP TYPE No Pump

FLUID TASTE -

STATIC HEAD ?

BUBBLING Intermittently

SCALING -

BOILING No

TYPE OF PIPING 1 3/4" steel

VEGETATION None

ARTESIAN HEAD 0-3"

FLUID ISSUES FROM \_\_\_\_\_

ROCK DATA:

TYPE (SURFACE) Tufa (CaCO<sub>3</sub>)

COLOR White to Lt Tan

GRAIN SIZE Varies

MEGASCOPIC MINERALS Calcite

SALT:

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION -

SINTER:

RX TYPE (AT DEPTH) Text Volcanics Pleist. Lacustrian sedo

TYPE \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA Not used

QUANTITY \_\_\_\_\_

USED FOR Not used

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: (EXC.), GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Drilled

PROPERTY OWNED BY BCM?

PREVIOUS AND/OR CURRENT LEASES ?

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15972 Date 7-31-84 Time 10:20

Name Corral Springs Location: Co. Fresno State Ca.

Sec. SW 5e3 Twp. 8S R. 36E ; 1/2 km/mi E OF Deep Springs Lake

Lat. 37°17' Long. 118°01' Elevation 4950 Quad. Blanco Mtn

Sampler Rik Lautz

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

DESCRIPTION:

WATER TEMP. °C 20°

DISCHARGE ~10 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA: Cumulative flow of ~100 gpm

AIR TEMP. 24°

DEPTH \_\_\_\_\_

ODOR \_\_\_\_\_

BORE \_\_\_\_\_

FLUID COLOR Clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE \_\_\_\_\_

STATIC HEAD \_\_\_\_\_

BUBBLING No

SCALING \_\_\_\_\_

BOILING No

TYPE OF PIPING \_\_\_\_\_

VEGETATION Grass, Reeds, Willows

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM Ground

ROCK DATA:

TYPE (SURFACE) Granodiorite

COLOR Grey

GRAIN SIZE 2-5 mm

MEGASCOPIC MINERALS Biotite, Plag

Pyroxene

ALTERATION Epidote

RX TYPE (AT DEPTH) ?

WATER USED FOR IMMEDIATE AREA Stock

USED FOR Graying

SALT:

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

SINTER:

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: (EXC.), GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION ? circulation along range bounding faults

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES ?

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15973 Date 1 AUG 84 Time 11 30 AM

Name BUCK HORN SPR. Location: Co. INYO State CA

Sec. 9 SW 1/4 Twp. 8S R. 36E; 0.5 km/mi SSE OF Deep Spr Lake

Lat. 37° 15.7' Long. 118° 2.5' Elevation 4950 Quad. BLANCO MTN QUAD

Sampler RIK LANTZ

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

DESCRIPTION:

WATER TEMP. °C 19°

DISCHARGE 25 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 27°

DEPTH \_\_\_\_\_

ODOR none

BORE \_\_\_\_\_

FLUID COLOR none

PUMP TYPE \_\_\_\_\_

FLUID TASTE none

STATIC HEAD \_\_\_\_\_

BUBBLING no

SCALING \_\_\_\_\_

BOILING no

TYPE OF PIPING \_\_\_\_\_

VEGETATION reeds

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM pool at base of debris flow material

ROCK DATA:

TYPE (SURFACE) Qal

COLOR med br

GRAIN SIZE sand to boulder

SALT:

TYPE mixed NaCl, CaCO<sub>3</sub>, NaCO<sub>3</sub>?

MEGASCOPIC MINERALS qtz fip sericite

QUANTITY slight to moderate

andalusite cordierite

COLOR white to brown

FORM efflorescence

ALTERATION \_\_\_\_\_

SINTER:

RX TYPE (AT DEPTH) E metasediments

TYPE NONE

WATER USED FOR IMMEDIATE AREA stock

QUANTITY \_\_\_\_\_

USED FOR stock

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION fault

PROPERTY OWNED BY unknown

PREVIOUS AND/OR CURRENT LEASES unknown

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15974 Date 7-31-84 Time 4:50

Name Ball Family Spring Location: Co. Inyo State Calif.

Sec. SW NE Sec 28 Twp. 7S R. 32E; 5 km(mi) SW OF Bishop

Lat. 37° 19' Long. 118° 28' Elevation 5340 Quad. Bishop

Sampler R. Lantze

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

DESCRIPTION:

WATER TEMP. °C 21°

DISCHARGE 5-10 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 26°

DEPTH \_\_\_\_\_

ODOR Strong H<sub>2</sub>S

BORE \_\_\_\_\_

FLUID COLOR Clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE -

STATIC HEAD \_\_\_\_\_

BUBBLING -

SCALING \_\_\_\_\_

BOILING -

TYPE OF PIPING \_\_\_\_\_

VEGETATION Cattails, Grass

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM Ground

ROCK DATA:

TYPE (SURFACE) Granite

COLOR Tan

GRAIN SIZE 3-5 mm

MEGASCOPIC MINERALS Qtz, Feld,

Biotite

SALT:

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION -

RX TYPE (AT DEPTH) ?

SINTER:

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA Not used

USED FOR Residential

QUALITY OF SAMPLE: Exc., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Circulation along fractures

PROPERTY OWNED BY Forest Service

PREVIOUS AND/OR CURRENT LEASES ?



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W 15975 Date 8/1/84 Time 11:00 AM

Name Grey Algae Spring Location: Co. Mono State Calif

Sec. SW 20 Twp. 35 R. 29 E; 1.7 km/mi NE OF Hot Creek Ranch

Lat. 37° 39.9' Long. 118° 40' Elevation ~~7080~~ 6960 Quad. Mt. Morrison 15'

Sampler Lantz

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

DESCRIPTION:

WATER TEMP. °C 59.5°

DISCHARGE 2 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 28°C

DEPTH \_\_\_\_\_

ODOR Yes, slight H<sub>2</sub>S

BORE \_\_\_\_\_

FLUID COLOR Murky, exsolving gases

PUMP TYPE \_\_\_\_\_

FLUID TASTE \_\_\_\_\_

STATIC HEAD \_\_\_\_\_

BUBBLING Yes

SCALING \_\_\_\_\_

BOILING No

TYPE OF PIPING \_\_\_\_\_

VEGETATION Grey Algae

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM Sink

ROCK DATA: Lithic, Xtal

TYPE (SURFACE) ~~Tuff~~ Tuff

COLOR Pink

SALT:

GRAIN SIZE \_\_\_\_\_  
MEGASCOPIC MINERALS \_\_\_\_\_

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION \_\_\_\_\_

SINTER:

RX TYPE (AT DEPTH) \_\_\_\_\_

TYPE Siliceous

WATER USED FOR IMMEDIATE AREA USED FOR \_\_\_\_\_

QUANTITY Abundant

COLOR Grey

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC. GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION ?

PROPERTY OWNED BY U.S. Forest

PREVIOUS AND/OR CURRENT LEASES ?

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15976 Date 8/1/84 Time 12:15

Name Fish Hatchery Spring Location: Co. Mono State Calif

Sec. 35 Twp. 35 R. 28E; .5 km(mi) North OF State Fish Hatchery

Lat. 37° 38.9' Long. 118° 51.5' Elevation 7110 Quad. Mt. Morrison 15'

Sampler Lantz

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

DESCRIPTION:

WATER TEMP. °C 62°C

DISCHARGE \_\_\_\_\_ gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 23°C

DEPTH \_\_\_\_\_

ODOR H<sub>2</sub>S

BORE \_\_\_\_\_

FLUID COLOR Clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE \_\_\_\_\_

STATIC HEAD \_\_\_\_\_

BUBBLING Yes

SCALING \_\_\_\_\_

BOILING No, Steaming

TYPE OF PIPING \_\_\_\_\_

VEGETATION Brown Algae

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM Ground, pond

ROCK DATA:

TYPE (SURFACE) Lithic, xtal tuff

COLOR pink yellow to pink

GRAIN SIZE porphyritic ophanitic  
MEGASCOPIC  
MINERALS Qz

SALT:

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION ?

SINTER:

RX TYPE (AT DEPTH) \_\_\_\_\_

TYPE Siliceous

WATER USED FOR  
IMMEDIATE AREA  
USED FOR \_\_\_\_\_

QUANTITY abundant

COLOR Orange

FORM ?

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION \_\_\_\_\_

PROPERTY OWNED BY US Forest

PREVIOUS AND/OR CURRENT LEASES Wooden Corp.?

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15977 Date 8/1/84 Time 3:00  
Name Casa Diablo Hot Springs Location: Co. Mono State Calif  
Sec. 32 Twp. 3S R. 28E ; 3 1/2 km(mi) E OF Mammoth Lakes  
Lat. 37° 38.8' Long. 118° 54.9' Elevation 7290 Quad. Mt Morrison  
Sampler Lantz

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

DESCRIPTION:

WATER TEMP. °C 92°C  
GROUND TEMP. °C \_\_\_\_\_  
AIR TEMP. 27°C  
ODOR H<sub>2</sub>S  
FLUID COLOR Clear  
FLUID TASTE \_\_\_\_\_  
BUBBLING Yes  
BOILING Yes  
VEGETATION Brown + Grey Algae  
FLUID ISSUES FROM Vent 9" in diam

DISCHARGE 5 gpm/Lpm  
WELL DATA:  
DEPTH \_\_\_\_\_  
BORE \_\_\_\_\_  
PUMP TYPE \_\_\_\_\_  
STATIC HEAD \_\_\_\_\_  
SCALING \_\_\_\_\_  
TYPE OF PIPING \_\_\_\_\_  
ARTESIAN HEAD \_\_\_\_\_

ROCK DATA:  
TYPE (SURFACE) Lithic xtal Tuff  
COLOR Yellow to Grey  
GRAIN SIZE Qz  
MEGASCOPIC MINERALS \_\_\_\_\_

SALT:  
TYPE \_\_\_\_\_  
QUANTITY \_\_\_\_\_  
COLOR \_\_\_\_\_  
FORM \_\_\_\_\_

ALTERATION \_\_\_\_\_  
RX TYPE (AT DEPTH) ?  
WATER USED FOR IMMEDIATE AREA USED FOR Geothermal Plant

SINTER:  
TYPE Siliceous  
QUANTITY Abundant  
COLOR Bleached white  
FORM \_\_\_\_\_

QUALITY OF SAMPLE EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION \_\_\_\_\_  
PROPERTY OWNED BY U.S. Forest  
PREVIOUS AND/OR CURRENT LEASES \_\_\_\_\_

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15978 Date 8-1-84 Time 4:15

Name Screaming Cow Hot Spring Location: Co. Mono State Calif

Sec. NW 13 Twp. 35 R. 28E ; 2 km/mi W OF Cashbaugh Ranch

Lat. 37° 42' Long. 119° 50' Elevation 7000 Quad. Mt. Morrison

Sampler Pik Cantz

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

(cumulative ~ 25 gpm)

DESCRIPTION:

WATER TEMP. °C 82.5°

DISCHARGE 5 (gpm) Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 27°

DEPTH \_\_\_\_\_

ODOR Strong H<sub>2</sub>S

BORE \_\_\_\_\_

FLUID COLOR Clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE —

STATIC HEAD \_\_\_\_\_

BUBBLING Yes

SCALING \_\_\_\_\_

BOILING Yes

TYPE OF PIPING \_\_\_\_\_

VEGETATION Brown & Gray Algae

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM Ground

ROCK DATA:

TYPE (SURFACE) Travertine

COLOR \_\_\_\_\_

SALT:

GRAIN SIZE \_\_\_\_\_

TYPE \_\_\_\_\_

MEGASCOPIC MINERALS Calcite

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION \_\_\_\_\_

SINTER:

RX TYPE (AT DEPTH) \_\_\_\_\_

TYPE Travertine

WATER USED FOR IMMEDIATE AREA Not used

QUANTITY Abundant

USED FOR Ranching

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: (EXC.), GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Groundwater Table

PROPERTY OWNED BY Forest Service

PREVIOUS AND/OR CURRENT LEASES ?

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15979 Date 8-7-84 Time 12:00

Name Wellhead Spring Location: Co. Inyo State Calif.

Sec. 15 ~~785~~ Twp. 14S R. 38E ; 1.5 km/mi NW OF Salt Lake

Lat. 36° 42' Long. 117° 50' Elevation 1070 Quad. New York Butte

Sampler Rik Lantz

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

DESCRIPTION:

WATER TEMP. °C 26°

DISCHARGE 10 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 33°

DEPTH ?

ODOR Rotting Vegetation

BORE \_\_\_\_\_

FLUID COLOR Clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE —

STATIC HEAD \_\_\_\_\_

BUBBLING —

SCALING \_\_\_\_\_

BOILING —

TYPE OF PIPING \_\_\_\_\_

VEGETATION Green Algae, Rock, Mesquite

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM Ground near Well Bore

ROCK DATA:

TYPE (SURFACE) Gal

COLOR \_\_\_\_\_

SALT:

GRAIN SIZE \_\_\_\_\_  
MEGASCOPIC \_\_\_\_\_  
MINERALS \_\_\_\_\_

TYPE Halite

QUANTITY Abundant

COLOR White

FORM \_\_\_\_\_

ALTERATION \_\_\_\_\_

SINTER:

RX TYPE (AT DEPTH) ?

TYPE \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA Not used  
USED FOR Not used

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE (B) EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Leakage around nearby well bore

PROPERTY OWNED BY \_\_\_\_\_

PREVIOUS AND/OR CURRENT LEASES ?

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15980 Date Aug. 8 Time 5:15

Name Bee Spring Location: Co. Inyo State Calif.

Sec. NE9W7 Twp. 24S R. 43E ; 6.5 km/mi N OF Trona

Lat. 35°52' Long. 117°23' Elevation 2800 Quad. Trona

Sampler Rik Lantz

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

DESCRIPTION:

WATER TEMP. °C 23°

DISCHARGE 3 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 33°

DEPTH \_\_\_\_\_

ODOR \_\_\_\_\_

BORE \_\_\_\_\_

FLUID COLOR Clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE -

STATIC HEAD \_\_\_\_\_

BUBBLING -

SCALING \_\_\_\_\_

BOILING -

TYPE OF PIPING \_\_\_\_\_

VEGETATION Grass, Trees

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM Mine Shaft Adit

ROCK DATA:

TYPE (SURFACE) Granite

COLOR Tan

GRAIN SIZE 1-3 mm

MEGASCOPIC MINERALS \_\_\_\_\_

SALT:

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION -

SINTER:

RX TYPE (AT DEPTH) ?

TYPE \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA Not Used

QUANTITY \_\_\_\_\_

USED FOR Not Used

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Movement along faults & Adit

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES ?

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15981 Date 8-9-84 Time 10:30  
Name Post Office Spring Location: Co. Inyo State Calif  
Sec. NENE 309 Twp. 225 R. 41E ; 1/2 km/mi SE OF Ballarat  
Lat. 36° 02' 30" Long. 117° 14' Elevation 1040 Quad. Telescope Peak  
Sampler Rik Lantz

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

*Cumulative Flow ≈ 25 gpm*

DESCRIPTION:

WATER TEMP. °C 23°  
GROUND TEMP. °C \_\_\_\_\_  
AIR TEMP. 37°  
ODOR None  
FLUID COLOR Clear  
FLUID TASTE —  
BUBBLING —  
BOILING —  
VEGETATION Grass, Rocks, Wierd Junipers  
FLUID ISSUES FROM Ground

DISCHARGE 1 gpm/Lpm

WELL DATA:

DEPTH \_\_\_\_\_  
BORE \_\_\_\_\_  
PUMP TYPE \_\_\_\_\_  
STATIC HEAD \_\_\_\_\_  
SCALING \_\_\_\_\_  
TYPE OF PIPING \_\_\_\_\_  
ARTESIAN HEAD \_\_\_\_\_

ROCK DATA:

TYPE (SURFACE) Alluvium  
COLOR \_\_\_\_\_

SALT:

TYPE NaCl, slight CaCO3  
QUANTITY Moderate  
COLOR White  
FORM Encrust

GRAIN SIZE \_\_\_\_\_  
MEGASCOPIC \_\_\_\_\_  
MINERALS \_\_\_\_\_

ALTERATION \_\_\_\_\_

SINTER:

TYPE \_\_\_\_\_  
QUANTITY \_\_\_\_\_  
COLOR \_\_\_\_\_  
FORM \_\_\_\_\_

RX TYPE (AT DEPTH) \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA \_\_\_\_\_  
USED FOR \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Groundwater Table - Movement along fault in Pleasant Canyon (?)  
PROPERTY OWNED BY ?  
PREVIOUS AND/OR CURRENT LEASES ?

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15982 Date Aug 9, 1984 Time 2:15  
 Name Warm Sulphur Springs Location: Co. Imperial State Calif.  
 Sec. 10 Twp. 21S R. 44E ; 5.5 km/mi N OF Ballarat  
 Lat. 36°07' Long. 117°13' Elevation 1040 Quad. Telescope Peak  
 Sampler Rik Lantz

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

DESCRIPTION:

WATER TEMP. °C	<u>27°</u>	DISCHARGE	<u>10 ?</u> <u>hard to estimate</u> (gpm/Lpm)
GROUND TEMP. °C	_____	WELL DATA:	_____
AIR TEMP.	<u>41°</u>	DEPTH	_____
ODOR	<u>Surprisingly, None</u>	BORE	_____
FLUID COLOR	<u>Clear</u>	PUMP TYPE	_____
FLUID TASTE	<u>-</u>	STATIC HEAD	_____
BUBBLING	<u>-</u>	SCALING	_____
BOILING	<u>-</u>	TYPE OF PIPING	_____
VEGETATION	<u>Reeds, Grass, Water, Cross</u>	ARTESIAN HEAD	_____
FLUID ISSUES FROM	<u>Ground</u> <u>(looks like Cabbage)</u>	ROCK DATA:	_____
	_____	TYPE (SURFACE)	<u>Schist</u>
	_____	COLOR	<u>Grey to Black</u>
SALT:		GRAIN SIZE	<u>Aphanitic</u>
TYPE	<u>NaCl, NaHCO<sub>3</sub></u>	MEGASCOPIC MINERALS	_____
QUANTITY	<u>Abundant</u>		_____
COLOR	<u>White</u>		_____
FORM	<u>Encrusts Ground</u>	ALTERATION	<u>CaCO<sub>3</sub>(?) Mining</u>
SINTER:		RX TYPE (AT DEPTH)	<u>?</u>
TYPE	_____	WATER USED FOR IMMEDIATE AREA	<u>Not used, Feed Salt</u>
QUANTITY	_____	USED FOR	<u>Not used, Flat</u>
COLOR	_____		_____
FORM	_____	QUALITY OF SAMPLE: EXC., GOOD, POOR	_____
PROBABLE CAUSE OF MANIFESTATION	<u>Ground Water Table</u>		
PROPERTY OWNED BY	<u>?</u>		
PREVIOUS AND/OR CURRENT LEASES	<u>?</u>		



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15983 Date 8-10-84 Time 12:00

Name <sup>Happy</sup> ~~Happy~~ Canyon Spring Location: Co. Inyo State Calif.

Sec. NE 31 Twp. 27S R. 45E; 3 km/mi WSW OF Ballarat

Lat. 36° 04' Long. 117° 09' Elevation 2400 Quad. Telescope Peak

Sampler Rik Can 12

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

DESCRIPTION:

WATER TEMP. °C 25

DISCHARGE 3 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. \_\_\_\_\_

DEPTH \_\_\_\_\_

ODOR —

BORE \_\_\_\_\_

FLUID COLOR clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE —

STATIC HEAD \_\_\_\_\_

BUBBLING —

SCALING \_\_\_\_\_

BOILING —

TYPE OF PIPING \_\_\_\_\_

VEGETATION Watercress, Grass, Moss

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM Ground

ROCK DATA:

TYPE (SURFACE) Schist

COLOR Grey to Black

GRAIN SIZE Andesitic

MEGASCOPIC MINERALS \_\_\_\_\_

SALT:

TYPE \_\_\_\_\_

QUANTITY None

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION Qtz Veins

SINTER:

RX TYPE (AT DEPTH) ?

TYPE \_\_\_\_\_

WATER USED FOR IMMEDIATE AREA Not used

QUANTITY \_\_\_\_\_

USED FOR Access

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Water movement along canyon fault

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES ?

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15944 Date 8-11-84 Time 11:15  
Name Wildrose Canyon Road Spring Location: Co. Inyo State Calif  
Sec. NE Sec 28 Twp. 19S R. 44E ; 2 km/mi E OF Park Entrance  
Lat. 36°16' Long. 117°13' Elevation 3950 Quad. Emigrant Canyon  
Sampler Rik Lantz

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

DESCRIPTION:

WATER TEMP. °C 230

DISCHARGE 5 gpm/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 380

DEPTH \_\_\_\_\_

ODOR None

BORE \_\_\_\_\_

FLUID COLOR Clear

PUMP TYPE \_\_\_\_\_

FLUID TASTE —

STATIC HEAD \_\_\_\_\_

BUBBLING —

SCALING \_\_\_\_\_

BOILING —

TYPE OF PIPING \_\_\_\_\_

VEGETATION Cottonwoods, willows, grass

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM Beneath Asphalt on  
Roadside

ROCK DATA:

TYPE (SURFACE) schist

COLOR Tan

GRAIN SIZE Aphanitic  
MEGASCOPIC  
MINERALS —

SALT:

TYPE \_\_\_\_\_

QUANTITY absent

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION —

SINTER:

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

RX TYPE (AT DEPTH) ?

WATER USED FOR Not used  
IMMEDIATE AREA  
USED FOR Nat'l Park

QUALITY OF SAMPLE: (EXC.), GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Movement along Faults

PROPERTY OWNED BY Death Valley Nat'l Monument

PREVIOUS AND/OR CURRENT LEASES ?

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15985 Date 8-14-84 Time 3:00

Name Jordan Hot Spring Location: Co. Tulare State Calif

Sec. NW 31 Twp. 19S R. 34E ; 5 km/mi NW OF Black rock

Lat. 36°14' Long. 118°17' Elevation 6520 Quad. Hockett Peak

Sampler Rik Lantz

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

DESCRIPTION:

WATER TEMP. °C 52°

DISCHARGE 15 (gpm)/Lpm

GROUND TEMP. °C \_\_\_\_\_

WELL DATA:

AIR TEMP. 22°

DEPTH \_\_\_\_\_

ODOR Rust-like

BORE \_\_\_\_\_

FLUID COLOR Cloudy, Tan

PUMP TYPE \_\_\_\_\_

FLUID TASTE -

STATIC HEAD \_\_\_\_\_

BUBBLING -

SCALING \_\_\_\_\_

BOILING -

TYPE OF PIPING \_\_\_\_\_

VEGETATION -

ARTESIAN HEAD \_\_\_\_\_

FLUID ISSUES FROM Pipe leading from  
Travertine Mound

ROCK DATA:

TYPE (SURFACE) Diorite

COLOR Grey

GRAIN SIZE 4-6 mm

MEGASCOPIC MINERALS \_\_\_\_\_

SALT:

TYPE \_\_\_\_\_

QUANTITY \_\_\_\_\_

COLOR \_\_\_\_\_

FORM \_\_\_\_\_

ALTERATION \_\_\_\_\_

SINTER:

RX TYPE (AT DEPTH)

TYPE Travertine Mound

WATER USED FOR Booth Houses

QUANTITY Abundant

IMMEDIATE AREA USED FOR Inyo Natl Forest

COLOR White to Rust colored

FORM Mounds

QUALITY OF SAMPLE: (EXC.), GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION ?

PROPERTY OWNED BY BIM

PREVIOUS AND/OR CURRENT LEASES Someone's got one, but I don't know the name

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. \_\_\_\_\_ Sample No. W15986 Date Aug 21, 1984 Time 1:30  
Name Tecopa Hot Spring Artesian Well Location: Co. Inyo State CA  
Sec. 33 Twp. 21N R. 7E ; 2 km/mi N OF Tecopa  
Lat. 35°52' Long. 116°14' Elevation 1400 Quad. Tecopa Quad  
Sampler Rik Lantz

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

DESCRIPTION:

WATER TEMP. °C 47° DISCHARGE 25 (gpm/Lpm)  
GROUND TEMP. °C \_\_\_\_\_ WELL DATA:  
AIR TEMP. 30° DEPTH 240 Feet  
ODOR Slight H<sub>2</sub>S BORE 3" (?)  
FLUID COLOR Clear PUMP TYPE None - Artesian  
FLUID TASTE — STATIC HEAD \_\_\_\_\_  
BUBBLING — SCALING \_\_\_\_\_  
BOILING — TYPE OF PIPING \_\_\_\_\_  
VEGETATION Blue-green Algae ARTESIAN HEAD blows out sideways  
FLUID ISSUES FROM 3" PVC pipe ROCK DATA:

TYPE (SURFACE) Gal  
COLOR \_\_\_\_\_

SALT: TYPE \_\_\_\_\_ GRAIN SIZE \_\_\_\_\_  
QUANTITY \_\_\_\_\_ MEGASCOPIC \_\_\_\_\_  
COLOR \_\_\_\_\_ MINERALS \_\_\_\_\_  
FORM \_\_\_\_\_

ALTERATION \_\_\_\_\_

SINTER: RX TYPE (AT DEPTH) Volcanics (?) *lots of recent*

WATER USED FOR IMMEDIATE AREA Bath Houses *Volcanics present*  
USED FOR R.V. Park

QUALITY OF SAMPLE (EXC.), GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Drilled  
PROPERTY OWNED BY ELIAS'S  
PREVIOUS AND/OR CURRENT LEASES ?