



GL05593
FILE_CAB_DRAWER_

1980

H20

Amax Geothermal Geochemical
Sample Form, California & New Mexico
#W14002 - W14950.

Counties. Calif., Inyo, Napa, Riverside, San Bernardino,
New Mexico, Bernalillo, Catron, Dona Ana, Grant,
Hidalgo, Lincoln, Luna, McKinley, Sandoval,
Santa Fe, Sierra, Socorro, Torrance,
Valencia.

Missing Samples

W14164 - W14169

W14175 - W14189

W14207 - W14209

W14221 - W14299

W14315 - W14319

W14360 - W14949

Photo BH 1,3

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14002 Date 6/10/80 Time 10:35 AM

Name DJITO SPRING Location: Co. _____ State _____

Sec. 29 Twp. 16N R. 2W ; _____ km/mi _____ OF _____

Lat. 106.59' Long. 135.36' Elevation 5700 Quad. DJITO SPRG - 7 1/2'

Sampler J.L., B.H., + W.A.

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

DESCRIPTION:

WATER TEMP. °C 16

DISCHARGE SEEP. - 3 to 5 gpm gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 23

DEPTH _____

ODOR NONE

BORE _____

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE Salty - WEAK CALZ

STATIC HEAD _____

BUBBLING Minor

SCALING _____

BOILING No

TYPE OF PIPING _____

VEGETATION All kinds

ARTESIAN HEAD _____

FLUID ISSUES FROM Small Hard Cap west

ROCK DATA:

TYPE (SURFACE) QAL & SHALE

COLOR TAN

SALT:

GRAIN SIZE _____
MEGASCOPIC _____
MINERALS _____

TYPE NaCl & CaCO₃

QUANTITY Abund.

COLOR White

FORM Crust on ground & minor crystals ALTERATION NONE - JUST SALT ON SURFACE

SINTER:

RX TYPE (AT DEPTH) _____

TYPE _____

WATER USED FOR IMMEDIATE AREA NOTHING
USED FOR RANCHING

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. 14003 Date 6/16/80 Time 1:10 pm

Name Ojo de Los Jaramillos Location: Co. Sand. State NM

Sec. 33 Twp. 16N R. 3W ; _____ km/mi _____ OF _____

Lat. 107° 10' Long. 35° 34' Elevation 6000 Quad. Guadalupe

Sampler BH, JL, +WA

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

DESCRIPTION:

WATER TEMP. °C 16.5°C

DISCHARGE 1/2 liter/min gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 26°C

DEPTH _____

ODOR none

BORE _____

FLUID COLOR clear

PUMP TYPE _____

FLUID TASTE good

STATIC HEAD _____

BUBBLING no

SCALING _____

BOILING no

TYPE OF PIPING _____

VEGETATION yes - grasses

ARTESIAN HEAD _____

FLUID ISSUES FROM fracture in thinly

ROCK DATA:

bedded ss. Intrusive basalt stock

TYPE (SURFACE) ss w/ calcite cement

~ 1/2 km away

COLOR light gray

SALT:

GRAIN SIZE fine
MEGASCOPIC MINERALS _____

TYPE CaCO₃ + weak NaCl

QUANTITY minor

COLOR white

FORM encrustation

ALTERATION none

SINTER: none

RX TYPE (AT DEPTH) same

TYPE _____

WATER USED FOR IMMEDIATE AREA USED FOR _____

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION fractures in ss

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14004 Date 6/11/80 Time 11:20
 Name STINKING SPRINGS #2 Location: Co McKinley State NMEX
 Sec. 13 Twp. 13N R. 17W ; 3-2 km/mi _____ OF _____
 Lat. 35° 21' Long. 108.35 Elevation 7600 Quad. UPPER NUTRIA
 Sampler BH JL

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

DESCRIPTION:

WATER TEMP. °C 9°C
 GROUND TEMP. °C _____
 AIR TEMP. 24°C
 ODOR NONE
 FLUID COLOR CLEAR
 FLUID TASTE NONE
 BUBBLING NO
 BOILING NO
 VEGETATION YES - MOSS

DISCHARGE 5 gpm/Lpm

WELL DATA:

DEPTH _____
 BORE _____
 PUMP TYPE _____
 STATIC HEAD _____
 SCALING _____
 TYPE OF PIPING _____
 ARTESIAN HEAD _____

FLUID ISSUES FROM PIPE in Holding tank

SEEP

ROCK DATA:

TYPE (SURFACE) Si S.S.
 COLOR RED

SALT:

TYPE NONE
 QUANTITY _____
 COLOR _____
 FORM _____

GRAIN SIZE _____
 MEGASCOPIC _____
 MINERALS _____

ALTERATION NONE

SINTER:

TYPE NONE
 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 _____
 PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14005 Date 6/11/80 Time 1:15

Name NUTRIA SPRG. Location: Co. McKin. State NM

Sec. 8 Twp. 12N R. 16W ; _____ km/mi _____ OF _____

Lat. 35° 16' Long. 108° 31' Elevation 6980 ft Quad. UPPER NUTRIA (75')

Sampler BH FJW

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

DESCRIPTION:

WATER TEMP. °C 12°C DISCHARGE 75 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 no SCALING _____

BOILING no TYPE OF PIPING _____

VEGETATION algae (which isn't present in adjoining stream) ARTESIAN HEAD _____

FLUID ISSUES FROM pipe from well ROCK DATA: _____

TYPE (SURFACE) fine grained ss

COLOR red

GRAIN SIZE fine
MEGASCOPIIC MINERALS _____

SALT: none

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION none

SINTER: RX TYPE (AT DEPTH) same

TYPE _____ WATER USED FOR drinking water

QUANTITY _____ IMMEDIATE AREA USED FOR nothing

COLOR _____

FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION fractures in sandstone

PROPERTY OWNED BY ZUNI INDIAN RESERVATION

PREVIOUS AND/OR CURRENT LEASES _____



BH 1-7

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14006 Date 6/12/80 Time 11.30

Name Ojitos WELL Location: Co. VALENCIA State N MEX

Sec. 10 Twp. 9N R. 11W ; 230 km/mi _____ OF _____

Lat. 35°1' Long. 107.58 Elevation 7404 Quad. SAN RAFAEL

Sampler SHENKER-HUNTSMAN

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

DESCRIPTION:

WATER TEMP. °C 17

DISCHARGE WINDMILL gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH _____

ODOR NONE

BORE _____

FLUID COLOR CLEAR

PUMP TYPE WINDMILL

FLUID TASTE NO TASTE

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING _____

VEGETATION YES

ARTESIAN HEAD _____

FLUID ISSUES FROM WINDMILL

ROCK DATA:

TYPE (SURFACE) ALV - RED SS.

COLOR RED - HEM

SALT:

GRAIN SIZE FINE to MED
MEGASCOPIC
MINERALS _____

TYPE CaCO₃

QUANTITY slight

COLOR white

FORM crust

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) SS.

TYPE _____

WATER USED FOR IMMEDIATE AREA CATTLE
USED FOR CATTLE

QUANTITY _____

COLOR _____

FORM _____

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

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



✓ to be check for land leases

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14007 Date 6/16/80 Time 11:30 AM

Name Los Pinos Hot Well Location: Co. Sand State N MEX

Sec. 1 - NE_{gtr} Twp. 16N R. 1 WEST km/mi _____ OF _____

Lat. 35.35 Long. 106.52 Elevation 6021 Quad. _____

Sampler Huntsman Shenker

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

DESCRIPTION:

WATER TEMP. °C 52.57

DISCHARGE 60-70 gpm gpm/Lpm

GROUND TEMP. °C _____

WELL DATA: UNKNOWN

AIR TEMP. 31

DEPTH possable gradient hole

ODOR WEAK SULPHUR

BORE _____

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE STRONG SALTS - bi Carb HCO₃

STATIC HEAD _____

BUBBLING YES - CaCO₃ - H₂S

SCALING _____

BOILING NO

TYPE OF PIPING _____

VEGETATION Algae

ARTESIAN HEAD _____

FLUID ISSUES FROM OLD WELL

ROCK DATA:

TYPE (SURFACE) B SS MUDSTONE

COLOR RED

SALT:

GRAIN SIZE _____
MEGASCOPIC _____
MINERALS _____

TYPE HCO₃ - CaCO₃

QUANTITY Abund

COLOR White

FORM Crust

ALTERATION No surfact

SINTER:

RX TYPE (AT DEPTH) _____

TYPE P

WATER USED FOR IMMEDIATE AREA SPA - not USED NOW
USED FOR _____

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Drill hole into Fault

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14,008 Date 6/16/80 Time 1:00 PM

Name Soda Spring Location: Co. Sandoz State NM

Sec. unsurveyed Twp. 17N R. 1W ; 2 km/mi SW OF highway 44

Lat. 35°40' Long. 106°57' Elevation 5995 Quad. San Ysidro 15'

Sampler Bill Huntsman

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

DESCRIPTION:

WATER TEMP. °C 17.4°C

DISCHARGE 3 Lpm gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 28°C

DEPTH 17m

ODOR none

BORE 4"

FLUID COLOR clear

PUMP TYPE artesian

FLUID TASTE slight bicarb

STATIC HEAD _____

BUBBLING no

SCALING CaCO₃

BOILING no

TYPE OF PIPING steel-galvanized

VEGETATION algae

ARTESIAN HEAD yes; to surface

FLUID ISSUES FROM 17m deep pipe

ROCK DATA:

Well is artesian.

TYPE (SURFACE) Qal - sedimentar

COLOR tan rx of Tertiary

SALT:

GRAIN SIZE _____

TYPE CaCO₃

MEGASCOPIC MINERALS _____

QUANTITY moderate

COLOR white

FORM crust

ALTERATION no

SINTER:

RX TYPE (AT DEPTH) sds ↑

TYPE _____

WATER USED FOR IMMEDIATE AREA cattle

QUANTITY NO

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION unknown

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES under B.T. lease by ?



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14009 Date 6/14/80 Time 2:00 PM

Name Holy Ghost Spring Location: Co. Sand State Mex

Sec. 10 Twp. 17N R. 1W; km/mi _____ OF _____

Lat. 35 43 Long. 106 57 Elevation 6400 Quad. _____

Sampler HUNTSMAN SHENKER

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

DESCRIPTION:

WATER TEMP. °C 13.5

DISCHARGE 30 Lpm gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 32

DEPTH _____

ODOR NONE

BORE _____

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE NONE GOOD

STATIC HEAD _____

BUBBLING NONE

SCALING _____

BOILING NO

TYPE OF PIPING _____

VEGETATION OK

ARTESIAN HEAD _____

FLUID ISSUES FROM Spring, sump

ROCK DATA:

TYPE (SURFACE) MUDSTONE

COLOR TAN

SALT:

GRAIN SIZE _____

TYPE NONE

MEGASCOPIC _____

MINERALS _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) AIN - SS mud

TYPE NONE

WATER USED FOR _____

QUANTITY _____

IMMEDIATE AREA _____

USED FOR PONDS - RES

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____

BH 1 10

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14010 Date 6/18/80 Time 10 30AM
Name DIPPING VAT SPRINGS Location: Co. VAL State N MEX
Sec. 12 Twp. 8N R. 2W ; km/mi _____ OF _____
Lat. 34°56' Long. 107°6' Elevation 5360 Quad. South GARCIN
Sampler HUNTSMAN

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

DESCRIPTION:

WATER TEMP. °C 17°C DISCHARGE 15-30 gpm gpm/Lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. 25 DEPTH _____
ODOR DISULPHUR - VERY WK BORE _____
FLUID COLOR CLEAR PUMP TYPE _____
FLUID TASTE WEAK Ca STATIC HEAD _____
BUBBLING No SCALING _____
BOILING No TYPE OF PIPING _____
VEGETATION Abund ARTESIAN HEAD _____

FLUID ISSUES FROM SEEP - in Bottom ROCK DATA:
half of mesa - mesa has basalt cap TYPE (SURFACE) SS
WATER COMES OUT ON A IMPERMEABLE COLOR RED
SS. layer
SALT: GRAIN SIZE _____
TYPE CaCO3 MEGASCOPIC _____
QUANTITY MOD MINERALS _____
COLOR white
FORM 1/2 to 1' thick crust ALTERATION No

SINTER: RX TYPE (AT DEPTH) SS
TYPE No WATER USED FOR IMMEDIATE AREA CATTLE
QUANTITY _____ USED FOR CATTLE
COLOR _____
FORM _____ QUALITY OF SAMPLE: EXC, GOOD, POOR

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

BH1-11

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14011 Date 6/18/80 Time 2 PM
Name Salt Springs Location: Co. Val State N MEX
Sec. 30 Twp. 6N R. 2W ; NW NW km/mi _____ OF 1
Lat. 34:46 Long. 107.06 Elevation 5600 Quad. South Garcia
Sampler HUNTSMAN

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

DESCRIPTION:

WATER TEMP. °C 27°C DISCHARGE 19pm gpm/Lpm
GROUND TEMP. °C Probably same WELL DATA:
AIR TEMP. 31 DEPTH _____
ODOR WEAK sulphur BORE _____
FLUID COLOR CLEAR PUMP TYPE _____
FLUID TASTE SALTY (VERY) STATIC HEAD _____
BUBBLING NO SCALING _____
BOILING NO TYPE OF PIPING _____
VEGETATION NONE ARTESIAN HEAD _____

FLUID ISSUES FROM Fractures in Travertine
THIS IS A Hog Back FEATURE.
Several salt springs in area

ROCK DATA:
TYPE (SURFACE) TRAVERTINE & SS
COLOR White-Red-Tan

SALT:

TYPE NaCl, CaCl₂ GRAIN SIZE _____
QUANTITY About MEGASCOPIC _____
COLOR White MINERALS _____
FORM crust ALTERATION NONE

SINTER:

TYPE _____ RX TYPE (AT DEPTH) _____
QUANTITY _____ WATER USED FOR IMMEDIATE AREA Nothing
COLOR _____ USED FOR CATTLE
FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

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



BH 1-12

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14 012 Date 6/18 Time 4:50

Name Salado springs Location: Co. VAL State N MEX

Sec. 35 Twp. 6N R. 3W ; km/mi _____ OF _____

Lat. 34 43 Long. 107 07 Elevation 5800 Quad. _____

Sampler Huntsman

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

DESCRIPTION:

WATER TEMP. °C 27

DISCHARGE 10-20 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 32

DEPTH _____

ODOR Mod-sulphur

BORE _____

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE Salty & Sulphur

STATIC HEAD _____

BUBBLING NO

SCALING _____

BOILING NO

TYPE OF PIPING _____

VEGETATION OK

ARTESIAN HEAD _____

FLUID ISSUES FROM SEEPS

ROCK DATA:

TYPE (SURFACE) SS

COLOR Tan

SALT:

GRAIN SIZE _____
MEGASCOPIC _____
MINERALS _____

TYPE CaCO₃ NaCl

QUANTITY MOD

COLOR White - Yellow

FORM CRUST - and Dams forming pools ALTERATION _____

SINTER:

TUFA BOND 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 Fractures - BEDDING PLANES

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



BH 1-13

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14013 Date 6/19/80 Time 11 30AM

Name LUCERO Spring Location: Co. VAL State N MEX

Sec. 11 Twp. 7N R. 4W ; SW/SE km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 5837 Quad. South Garcia 15min

Sampler HUNTSMAN

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

DESCRIPTION:

WATER TEMP. °C 17°C

DISCHARGE 20 gpm gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 29

DEPTH _____

ODOR NONE

BORE _____

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE Too many cows

STATIC HEAD _____

BUBBLING NO

SCALING _____

BOILING NO

TYPE OF PIPING _____

VEGETATION Abundant

ARTESIAN HEAD _____

FLUID ISSUES FROM salt & Travertine

ROCK DATA:

mound - others in area

TYPE (SURFACE) SS

COLOR RED

SALT:

GRAIN SIZE _____
MEGASCOPIIC _____
MINERALS _____

TYPE Minor Calc

QUANTITY _____

COLOR White

FORM Crust

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) SS.

TYPE Travertine

WATER USED FOR Cattle
IMMEDIATE AREA
USED FOR Cattle

QUANTITY 1 piece

COLOR White-gray

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION UNKNOWN

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



BH 114

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14014 Date 6/22/80 Time 1:30 PM

Name Carbon Springs Location: Co. Soc. State NM

Sec. N/SE/SW 7 Twp. 1N R. 3W ; _____ km/mi _____ OF _____

Lat. 34° 19' N Long. 107° 12' Elevation 5700 Quad. Riley 15'

Sampler Bill Huntsman

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

DESCRIPTION:

WATER TEMP. °C 28°C solar

DISCHARGE seep gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 29-31°C

DEPTH _____

ODOR none

BORE _____

FLUID COLOR clear

PUMP TYPE _____

FLUID TASTE _____

STATIC HEAD _____

BUBBLING no

SCALING _____

BOILING no

TYPE OF PIPING _____

VEGETATION yes

ARTESIAN HEAD _____

FLUID ISSUES FROM seeps in lahar?

ROCK DATA:

TYPE (SURFACE) lahar? (vol. breccia)

COLOR reddish brown

GRAIN SIZE breccia 1mm-.5m

MEGASCOPIC MINERALS rx, rhyolite, andesite

SALT:

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION no

SINTER:

RX TYPE (AT DEPTH) same?

TYPE _____

WATER USED FOR IMMEDIATE AREA USED FOR cattle
BLM

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION seep?

PROPERTY OWNED BY BLM

PREVIOUS AND/OR CURRENT LEASES No?

BH 1-15

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14015 Date 6/24/80 Time 10 AM

Name BEAR SPRING Location: Co. _____ State N MEX

Sec. 9 Twp. 1S R. 4W ; _____ km/mi _____ OF _____

Lat. 34' 13 Long. 106' 16 Elevation _____ Quad. SILVER HILL

Sampler SHENKER

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

DESCRIPTION:

WATER TEMP. °C 18°C

DISCHARGE 6 Lpm gpm/Lpm

GROUND TEMP. °C 1

WELL DATA:

AIR TEMP. 28

DEPTH _____

ODOR NONE

BORE _____

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE NONE

STATIC HEAD _____

BUBBLING NO

SCALING _____

BOILING NO

TYPE OF PIPING _____

VEGETATION MOSS

ARTESIAN HEAD _____

FLUID ISSUES FROM PIPE IN GROUND

ROCK DATA:

TYPE (SURFACE) RIVER CHANNEL - SS-CLAYS
SILTS

COLOR BWN

SALT: NONE

GRAIN SIZE _____
MEGASCOPIC _____
MINERALS _____

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION /

SINTER: NO

RX TYPE (AT DEPTH) Basalt - Ig RXS

TYPE _____

WATER USED FOR IMMEDIATE AREA CATTLE
USED FOR CATTLE

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION SEEP

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



BH 1-16

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14016 Date 6/24/80 Time 4:30 PM

Name KELLY RANCH WINDMILL Location: Co. Soc State N MEX

Sec. 23 - NW-SE-SW Twp. 3S R. 3W ; _____ km/mi _____ OF _____

Lat. 34.02" Long. 107.07 Elevation 6650 Quad. MAGDALENA 15

Sampler SHEKNER ✓

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

DESCRIPTION:

WATER TEMP. °C 13.5

DISCHARGE _____ gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH _____

ODOR NONE

BORE _____

FLUID COLOR CLEAR

PUMP TYPE 'GAS PUMPER

FLUID TASTE NONE

STATIC HEAD _____

BUBBLING /

SCALING NO

BOILING /

TYPE OF PIPING /

VEGETATION OK

ARTESIAN HEAD /

FLUID ISSUES FROM WINDMILL

ROCK DATA:

TYPE (SURFACE) RIVER AIV

COLOR ALL

SALT:

GRAIN SIZE _____
MEGASCOPIC _____
MINERALS _____

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION /

SINTER:

RX TYPE (AT DEPTH) HARD ROCKS

TYPE _____

WATER USED FOR IMMEDIATE AREA HOUSE
USED FOR _____

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



BH 1-17

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14017 Date 6 25 Time 11 AM
Name SEBELLO Location: Co. Soc State N MEX
Sec. 22 Twp. 3 S R. 1W ; km/mi _____ OF _____
Lat. 34.02 Long. 106.56 Elevation 4900 Quad. Socorro
Sampler SHENKER

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

DESCRIPTION:

WATER TEMP. °C 32.5

DISCHARGE THERMAL WATER OF NEW MEXICO gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH _____

ODOR _____

BORE _____

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE NONE

STATIC HEAD _____

BUBBLING NO

SCALING _____

BOILING NO

TYPE OF PIPING _____

VEGETATION Abund

ARTESIAN HEAD _____

FLUID ISSUES FROM Pipes -

ROCK DATA:

Springs were cemented w
PIPES - FILL POOL

TYPE (SURFACE) _____

COLOR _____

SALT:

GRAIN SIZE _____
MEGASCOPIIC _____
MINERALS _____

TYPE NO

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) _____

TYPE NO

WATER USED FOR _____
IMMEDIATE AREA _____
USED FOR _____

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Fractures in R

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____

Cliffon
Mr Hammitt - BH 1-17
PO. Box 125 -
Capitan - 88316

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14018 Date 6/26/80 Time 11.30 AM
Name HAMMETT WELL Location: Co. LIN State N MEX
Sec. 20 Twp. 8S R. 15 ; _____ km/mi _____ OF _____
Lat. 33.36 Long. 105.29 Elevation 6837 Quad. CAPITAN
Sampler SHENBER

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

H₂O 460
SCOTD

DESCRIPTION:

WATER TEMP. °C OUT OF TAP DISCHARGE _____ gpm/Lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. _____ DEPTH _____
ODOR _____ BORE _____
FLUID COLOR CLEAR PUMP TYPE _____
FLUID TASTE WK B. Carb 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
SINTER: TYPE _____
QUANTITY _____
COLOR _____
FORM _____

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



BH-118

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14019 Date 6/26/80 Time 1:20 PM
 Name Seven Cabin CS Location: Co. Lincoln State NM
 Sec. SW/NE 7 Twp. 8S R. 17E; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 6935' Quad. Capitan Mtns. 15'
 Sampler Huntsman
 Sample Type: Spring (with pipe), well (with pipe), creek, river, soil, salt, sinter, travertine, gas, rock, snow

DESCRIPTION:

WATER TEMP. °C 17°C ? solar DISCHARGE seep / < 1 (gpm/Lpm)
 GROUND TEMP. °C _____ WELL DATA:
 AIR TEMP. 26°C DEPTH _____
 ODOR none BORE _____
 FLUID COLOR clear PUMP TYPE _____
 FLUID TASTE none STATIC HEAD _____
 BUBBLING no SCALING _____
 BOILING no TYPE OF PIPING _____
 VEGETATION forest ARTESIAN HEAD _____
 FLUID ISSUES FROM soil cut - cement ROCK DATA:
 _____ seep TYPE (SURFACE) granite float over
 _____ COLOR ls. ?

SALT:

TYPE _____ GRAIN SIZE _____
 QUANTITY _____ MEGASCOPIIC _____
 COLOR _____ MINERALS _____
 FORM _____ ALTERATION no

SINTER:

TYPE _____ RX TYPE (AT DEPTH) ls. ?
 QUANTITY _____ WATER USED FOR IMMEDIATE AREA recreation
 COLOR _____ USED FOR _____
 FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION fault @ front (North side) of
 PROPERTY OWNED BY Forest Service Capitan Mtns.
 PREVIOUS AND/OR CURRENT LEASES none.



BH-119

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14020 Date 6/26/80 Time 4:15 PM
Name Raton CW Location: Co. Line State NM
Sec. SW 15 Twp. 9S R. 17E ; _____ km/mi _____ OF _____
Lat. 33' 31" Long. 105' 16" Elevation 6064 Quad. CAPITA
Sampler Huntsman

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

DESCRIPTION:

WATER TEMP. °C 22°C solar DISCHARGE variable gpm/Lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. 28°C DEPTH ~300 ft
ODOR none BORE _____
FLUID COLOR clear PUMP TYPE _____
FLUID TASTE good STATIC HEAD _____
BUBBLING no SCALING _____
BOILING no TYPE OF PIPING _____
VEGETATION no ARTESIAN HEAD _____

FLUID ISSUES FROM windmill outflow ROCK DATA:
pipe TYPE (SURFACE) limestone
COLOR gray

SALT: TYPE CaCO3 GRAIN SIZE _____
QUANTITY minor MEGASCOPIIC _____
COLOR iron stained MINERALS _____
FORM crust on pipe ALTERATION no

SINTER: RX TYPE (AT DEPTH) same
TYPE _____ WATER USED FOR IMMEDIATE AREA cattle
QUANTITY None USED FOR _____
COLOR _____
FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION well
PROPERTY OWNED BY Forest Service
PREVIOUS AND/OR CURRENT LEASES none



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14021 Date 6/26/80 Time 5 PM

Name RANCH SPRING Location: Co. _____ State _____

Sec. 8 Twp. 9S R. 17E ; SW-1/4 km/mi _____ OF _____

Lat. 30° 33'' Long. 105° 18'' Elevation 6540 Quad. CAPTAN Mtn 15min

Sampler SHENKER

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

DESCRIPTION:

WATER TEMP. °C 14

DISCHARGE Seep gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 32

DEPTH _____

ODOR NONE

BORE _____

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE OK

STATIC HEAD _____

BUBBLING NO

SCALING _____

BOILING NO

TYPE OF PIPING _____

VEGETATION NORMAL

ARTESIAN HEAD _____

FLUID ISSUES FROM Granite

ROCK DATA:

TYPE (SURFACE) WEATHER GRANITE

COLOR WHITE

SALT:

GRAIN SIZE _____
MEGASCOPIC _____
MINERALS _____

TYPE NONE

QUANTITY _____

COLOR _____

FORM _____

ALTERATION NONE

SINTER:

RX TYPE (AT DEPTH) SAME

TYPE _____

WATER USED FOR IMMEDIATE AREA Cattle
USED FOR Cattle

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



BL 2-1

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14022 Date 6-27-80 Time 10 AM

Name TEST WELL Location: Co. Socorro State N Mex

Sec. 9 Twp. 5s R. 3E ; _____ km/mi _____ OF _____

Lat. 33° 55" Long. 106° 37" Elevation 5028 Quad. Tularosa AMS

Sampler Huntsman

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

DESCRIPTION:

WATER TEMP. °C Solar 24° DISCHARGE _____ gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. _____ DEPTH 300' (P)

ODOR NONE BORE _____

FLUID COLOR CLEAR to SL REDDISH Mud PUMP TYPE no windmill

FLUID TASTE no taste test here STATIC HEAD /

BUBBLING no SCALING CaCO3

BOILING no TYPE OF PIPING _____

VEGETATION abundant ARTESIAN HEAD no

FLUID ISSUES FROM Windmill ROCK DATA:

TYPE (SURFACE) SS - alv

COLOR Tan

SALT: TYPE CaCO3 GRAIN SIZE _____ MEGASCOPIIC MINERALS _____

QUANTITY Abundant on workings of windmill

COLOR White - Red

FORM Crust ALTERATION _____

SINTER: RX TYPE (AT DEPTH) SS

TYPE _____ WATER USED FOR Cattle

QUANTITY _____ IMMEDIATE AREA USED FOR Cattle - Bomb Range

COLOR _____

FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR Fair

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



SEND RESULTS
GLEN KNOWITON
ADOBE RANCH
MAGDALENA
NEW MEXICO

BH 2 #2

Foreman
Glen Knowlton
adobe ranch, Magdalena,
N Mex

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14023 Date 6/30/80 Time 4:20 PM

Name ADOBE RANCH WINDMILL Location: Co. Catron State N MEX

Sec. 33 Twp. 7S R. 10W ; km/mi _____ OF _____

Lat. 33° 37' Long. 107° 52' Elevation 6800? Quad. GILA NATIONAL FOREST UNSURVEYED

Sampler Muntsman

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

DESCRIPTION:

WATER TEMP. °C 35° warm

DISCHARGE _____ gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH 1280 feet pump level

ODOR slight sulphur

BORE _____

FLUID COLOR clear

PUMP TYPE Windmill

FLUID TASTE sl sulphur

STATIC HEAD _____

BUBBLING no

SCALING _____

BOILING no

TYPE OF PIPING _____

VEGETATION /

ARTESIAN HEAD _____

FLUID ISSUES FROM well

ROCK DATA:

TYPE (SURFACE) alv

SALT:

TYPE CaCO₃

GRAIN SIZE
MEGASCOPIC
MINERALS _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) hard

TYPE _____

WATER USED FOR
IMMEDIATE AREA
USED FOR _____

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY Canning Ranches Inc

PREVIOUS AND/OR CURRENT LEASES _____



BH 24

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14024 Date 7/1/80 Time 1:06 PM

Name St. Cloud CS Location: Co. Sierra State NM

Sec. SE/NE/SW 30 Twp. 11S R. 8W ; 2 km/mi SW OF chloride

Lat. 33° 18' Long. 107° 42' Elevation 6640 Quad. Winston 7.5'

Sampler Huntsman

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

DESCRIPTION:

WATER TEMP. °C 17°C

DISCHARGE SPRG. gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. ~28°C

DEPTH _____

ODOR none

BORE _____

FLUID COLOR clear

PUMP TYPE _____

FLUID TASTE no way

STATIC HEAD _____

BUBBLING no

SCALING _____

BOILING no

TYPE OF PIPING _____

VEGETATION green mosses

ARTESIAN HEAD _____

FLUID ISSUES FROM joint in ls.

ROCK DATA:

TYPE (SURFACE) limestone

COLOR gray

GRAIN SIZE
MEGASCOPIC
MINERALS _____

SALT:

TYPE _____

QUANTITY NO

COLOR _____

FORM _____

ALTERATION mineralization in area

SINTER:

RX TYPE (AT DEPTH) _____

TYPE _____

WATER USED FOR
IMMEDIATE AREA
USED FOR cattle

QUANTITY NO

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION joints / meteoric ?

PROPERTY OWNED BY Forest Service ?

PREVIOUS AND/OR CURRENT LEASES NO



BH 2 # 5

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14025 Date 7/1/80 Time 3 30 PM

Name CHISE WARM SPRINGS Location: Co. SIERRA State NMEX

Sec. 9 Twp. 12S R. 7W ; SW-SE km/mi _____ OF _____

Lat. 33° 22' Long. 107 34 Elevation 5400 Quad. CHISE 7.5

Sampler SHENKER

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

DESCRIPTION:

WATER TEMP. °C 30°C

DISCHARGE 400 gpm gpm/Lpm

GROUND TEMP. °C /

WELL DATA:

AIR TEMP. /

DEPTH _____

ODOR NONE

BORE _____

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE Bi Carb - Chloride P

STATIC HEAD _____

BUBBLING /

SCALING _____

BOILING /

TYPE OF PIPING _____

VEGETATION RED ALGAE (MOD)

ARTESIAN HEAD _____

FLUID ISSUES FROM FAULT IN LIME

ROCK DATA:

TYPE (SURFACE) LIMESTONE

COLOR _____

SALT:

GRAIN SIZE
MEGASCOPIC
MINERALS /

TYPE NaCl

QUANTITY MOD

COLOR WHITE

FORM _____

ALTERATION YES - POSSIBLE Hg

SINTER:

RX TYPE (AT DEPTH) _____

TYPE /

WATER USED FOR IMMEDIATE AREA
USED FOR NOTHING
CATTLE

QUANTITY /

COLOR /

FORM /

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION FAULT

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



photo : JL # 1-1

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14026 Date 6/15/80 Time 4:10 pm

Name COYOTE SPRING Location: Co. SANTA FE State NM

Sec. 2 Twp. 14N R. 8E ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 6040 Quad. MADRID QUAD (15')

Sampler WA + JL

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

DESCRIPTION:

WATER TEMP. °C 24°C (TROB. HEATED BY SUN) DISCHARGE 3 Lpm gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 28.5°C

DEPTH _____

ODOR NONE

BORE _____

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE NONE

STATIC HEAD _____

BUBBLING NO

SCALING _____

BOILING NO

TYPE OF PIPING _____

VEGETATION ALGAE

ARTESIAN HEAD _____

FLUID ISSUES FROM SEEP IN DRY STREAM

ROCK DATA:

BED

TYPE (SURFACE) RHYOLITE BRECCIA w/LARGE COBBLES

OF ANDESITE PORPHYRY

COLOR PINKISH MATRIX, LT GRAY COBBLES

SALT:

GRAIN SIZE LITHIC FRAGMENTS UP TO 0.75m

TYPE NaCl, CaCO3

MEGASCOPIC

MINERALS HORNBLLENDE + BIOTITE IN

ANDESITE

QUANTITY MINOR

COLOR WHITE

FORM ENCrustATION ON STREAM PEBBLES

ALTERATION NONE

SINTER: NONE

RX TYPE (AT DEPTH) SAME

TYPE _____

WATER USED FOR NO USE

QUANTITY _____

IMMEDIATE AREA

USED FOR HIGHWAY OVERPASS

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION FRactURES IN BRECCIA

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14027 Date 6/17/80 Time 10:20 AM

Name TUNNEL SPRING Location: Co. SAND. State NM

Sec. 5 Twp. 12N R. SE ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 6400' Quad. SAN FELIPE PUEBLO (15')

Sampler JL

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

DESCRIPTION:

WATER TEMP. °C 11.5°C

DISCHARGE 75 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 21.5°C

DEPTH _____

ODOR NONE

BORE _____

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE GOOD

STATIC HEAD _____

BUBBLING NO

SCALING _____

BOILING NO

TYPE OF PIPING _____

VEGETATION ALGAE GRASS

ARTESIAN HEAD _____

FLUID ISSUES FROM PIPE SET INTO

ROCK DATA:

FAULT GOUGE ; FLOW VARIES

TYPE (SURFACE) SANDSTONE

SEASONALLY (AS PER HOMEOWNER)

COLOR GREENISH

SALT: NONE

GRAIN SIZE MEDIUM

TYPE _____

MEGASCOPIC MINERALS —

QUANTITY _____

AT SPRING, GOUGE ZONE (15m wide) of

COLOR _____

WHITE, YELLOW + PINK GOUGE ; LS WEST OF FAULT

FORM _____

ALTERATION NONE DUE TO SPRING

SINTER: NONE

RX TYPE (AT DEPTH) SAME (?)

TYPE _____

WATER USED FOR IMMEDIATE AREA USED FOR FISH HATCHERY + DRINKING WATER

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION FAULT IN SANDSTONE + LIMESTONE

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



JULY 80

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 4028 Date 5/17/8 Time 12:30 pm
 Name SAN FRANCISCO SPRING Location: Co. SAND State NM
 Sec. 25 Twp. 13 N R. 5 E ; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 5760 Quad. SAN FELIPE PUEBLO (15')
 Sampler JL

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

DESCRIPTION:

WATER TEMP. °C	<u>16.5 °C</u>	DISCHARGE	<u>~ 10 gpm</u> gpm/Lpm
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>20.0 °C</u>	DEPTH	_____
ODOR	<u>NONE</u>	BORE	_____
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	_____
FLUID TASTE	<u>GOOD</u>	STATIC HEAD	_____
BUBBLING	<u>NO</u>	SCALING	_____
BOILING	<u>NO</u>	TYPE OF PIPING	_____
VEGETATION	<u>GRASSES + WILLOWS</u>	ARTESIAN HEAD	_____
FLUID ISSUES FROM	<u>GRASSY SEEP AREA;</u>	ROCK DATA:	
	<u>ORIGINALLY FROM TILTED LIMESTONE</u>	TYPE (SURFACE)	<u>GRANULAR LIMESTONE</u>
	<u>BEDS; SAMPLE TAKEN AT FIRST COLLECTIBLE</u>	COLOR	<u>BEIGE</u>
	<u>ACCUMULATION; POSSIBLY INFLUENCED</u>	GRAIN SIZE	<u>1-2 mm</u>
SALT:	<u>BY VEGETATION</u>	MEGASCOPIC MINERALS	_____
	<u>↳ NONE</u>		
QUANTITY	_____		
COLOR	_____		
FORM	_____	ALTERATION	<u>RYTALLIZED LS W/ FE STN IN AREA</u>
SINTER:	<u>NONE</u>	RX TYPE (AT DEPTH)	<u>SAME</u>
TYPE	_____	WATER USED FOR IMMEDIATE AREA	<u>NOTHING</u>
QUANTITY	_____	USED FOR	<u>ABANDONNED TOWN (TESON)</u>
COLOR	_____		
FORM	_____	QUALITY OF SAMPLE: EXC., <u>GOOD</u> , POOR	
PROBABLE CAUSE OF MANIFESTATION	<u>FAULTING OF LIMESTONE (FRANCISCO FAULT?)</u>		
PROPERTY OWNED BY	<u>DIAMOND TAIL RANCH</u>		
PREVIOUS AND/OR CURRENT LEASES	_____		



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14029 Date 6/17/80 Time 1:50 PM

Name UNNAMED Location: Co. SAND State NM

Sec. 22 Twp. 13 N R. 5E ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 6040 Quad. SAN FELIPE PUEBLO (15')

Sampler JL

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

DESCRIPTION:

WATER TEMP. °C 17.0°C

DISCHARGE ~10 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 20°C

DEPTH _____

ODOR NONE

BORE _____

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE GOOD

STATIC HEAD _____

BUBBLING NO

SCALING _____

BOILING NO

TYPE OF PIPING _____

VEGETATION ALGAE

ARTESIAN HEAD ✓

FLUID ISSUES FROM PIPE UNDER OLD

ROCK DATA:

WINDMILL SITE ; ARTESIAN

TYPE (SURFACE) LIMESTONE

COLOR MEDIUM GRAY

SALT: NONE

GRAIN SIZE —

TYPE _____

MEGASCOPIC MINERALS —

QUANTITY _____

Cu MINERALIZATION REPORTED ~ 100

COLOR _____

To NE

FORM _____

ALTERATION NONE

SINTER: NONE

RX TYPE (AT DEPTH) SAME

TYPE _____

WATER USED FOR DRINKING

QUANTITY _____

IMMEDIATE AREA USED FOR RESIDENCE

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION ARTESIAN FLOW THROUGH OLD WINDMILL WELL

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



JULY 80

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14030 Date 6/24/80 Time 4:10 pm

Name EXTER SPRING Location: Co. SOCORRO State NM

Sec. 13 Twp. 6S R. 6W ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 7075 Quad. GRASSY LOOKOUT

Sampler JL & WA

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

DESCRIPTION:

WATER TEMP. °C	<u>16.0°</u>	DISCHARGE	<u>6</u> <u>gpm/Lpm</u>
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>29.0°</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>ALGAE + GOLDENROD</u>	ARTESIAN HEAD	_____
FLUID ISSUES FROM	<u>FRACTURES IN WELDED</u>	ROCK DATA:	
	<u>RHYOLITIC TUFF</u>	TYPE (SURFACE)	<u>RHYOLITIC WELDED TUFF</u>
		COLOR	<u>PURPLISH PINK</u>
SALT: <u>NONE</u>		GRAIN SIZE	<u>3 mm (max)</u>
TYPE	_____	MEGASCOPIC MINERALS	<u>QUARTZ, SANDINE,</u>
QUANTITY	_____		<u>BIOTITE, LITHIC FRAGMENTS</u>
COLOR	_____		
FORM	_____	ALTERATION	<u>NONE</u>
SINTER: <u>NONE</u>		RX TYPE (AT DEPTH)	<u>SAME</u>
TYPE	_____	WATER USED FOR IMMEDIATE AREA	<u>WATERING LIVESTOCK</u>
QUANTITY	_____	USED FOR	<u>NAT'L FOREST</u>
COLOR	_____		
FORM	_____	QUALITY OF SAMPLE: EXC., <u>GOOD</u> , POOR	

PROBABLE CAUSE OF MANIFESTATION FRACTURES IN RHYOLITIC TUFF

PROPERTY OWNED BY CIBOLA NAT'L FOREST

PREVIOUS AND/OR CURRENT LEASES _____



JULY 1968

Old Garcia Ranch well

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14031 Date 6/24/80 Time 5:20 Pm
 Name Old Garcia Ranch Well Location: Co. Socorro State N.M.
 Sec. 9 Twp. 4S R. 5W :4211 km/mi _____ OF _____
 Lat. 38° 58' 25" Long. 107° 22' Elevation 6595 Quad. Squaw Peak
 Sampler JL + WA

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

DESCRIPTION:

WATER TEMP. °C	<u>19°C</u>	DISCHARGE	_____ gpm/Lpm
GROUND TEMP. °C	<u>—</u>	WELL DATA:	
AIR TEMP.	<u>30°C</u>	DEPTH	<u>360'</u>
ODOR	<u>None</u>	BORE	<u>6"</u>
FLUID COLOR	<u>None</u>	PUMP TYPE	<u>Gas Powered</u>
FLUID TASTE	<u>Excellent</u>	STATIC HEAD	<u>? Not known</u>
BUBBLING	<u>No</u>	SCALING	<u>No</u>
BOILING	<u>No</u>	TYPE OF PIPING	<u>— Steel</u>
VEGETATION	<u>—</u>	ARTESIAN HEAD	<u>No</u>

FLUID ISSUES FROM

ROCK DATA:

TYPE (SURFACE) Alluvium
 COLOR _____

SALT:

None

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

SINTER:

None

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

GRAIN SIZE _____
 MEGASCOPIC _____
 MINERALS _____

ALTERATION None

RX TYPE (AT DEPTH) Rhyolite(?), Rhyolitic tuff(?)

WATER USED FOR _____
 IMMEDIATE AREA _____
 USED FOR Cattle

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES Frank Howard



JULY 80

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14032 Date 6/25/80 Time 11:20 am
 Name A-L SPRING Location: Co. SOC. State N.M.
 Sec. 22 Twp. 4S R. 6W ; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 7555 Quad. MOUNT WITHINGTON
 Sampler: JL

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

DESCRIPTION:

WATER TEMP. °C	<u>12.0°C</u>	DISCHARGE	<u>5</u> <u>(gpm)</u> /Lpm
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>28.5°C</u>	DEPTH	_____
ODOR	<u>NONE</u>	BORE	_____
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	_____
FLUID TASTE	<u>GOOD</u>	STATIC HEAD	_____
BUBBLING	<u>NO</u>	SCALING	_____
BOILING	<u>NO</u>	TYPE OF PIPING	_____
VEGETATION	<u>Yes</u>	ARTESIAN HEAD	_____
FLUID ISSUES FROM	<u>FRACTURES IN</u>	ROCK DATA:	
	<u>RHYOLITE</u>	TYPE (SURFACE)	<u>RHYOLITE PORPHYRY</u>
		COLOR	<u>PINK</u>
SALT: <u>NONE</u>		GRAIN SIZE	<u>3 mm (MAX)</u>
TYPE	_____	MEGASCOPIC MINERALS	<u>QTZ, SANIDINE,</u>
QUANTITY	_____		<u>BIOTITE</u>
COLOR	_____		
FORM	_____	ALTERATION	<u>NONE</u>
SINTER: <u>NON</u>		RX TYPE (AT DEPTH)	<u>SAME</u>
TYPE	_____	WATER USED FOR IMMEDIATE AREA	<u>WATERING LIVESTOCK</u>
QUANTITY	_____	USED FOR	<u>ABANDONED CORRAL</u>
COLOR	_____		
FORM	_____	QUALITY OF SAMPLE:	<u>EXC.</u> , GOOD, POOR

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



JULY 80

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14033 Date 6/25/80 Time 1:37 pm
 Name UNNAMED WELL Location: Co. SOC State NM
 Sec. 10 Twp. 45 R. 6W ; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 7120 Quad. MOUNT WITHINGTON
 Sampler J L + H O

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

DESCRIPTION:

WATER TEMP. °C	<u>17.5°</u>	DISCHARGE	<u>ERRATIC (~4 gpm) Lpm</u>
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	_____	DEPTH	_____
ODOR	<u>NONE</u>	BORE	<u>6"</u>
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	<u>AER MOTOR WINDMILL</u>
FLUID TASTE	<u>GOOD</u>	STATIC HEAD	_____
BUBBLING	<u>NO</u>	SCALING	_____
BOILING	<u>NO</u>	TYPE OF PIPING	_____
VEGETATION	<u>YES</u>	ARTESIAN HEAD	<u>NO</u>
FLUID ISSUES FROM	<u>PUMPING WINDMILL</u>	ROCK DATA:	
_____	_____	TYPE (SURFACE)	<u>Qa / w / COBBLES OF RHYOLITE + BASALT</u>
_____	_____	COLOR	<u>MED. BROWN</u>
SALT:		GRAIN SIZE	<u>COBBLES UP TO 15 CM</u>
TYPE	<u>CaCO₃ ?</u>	MEGASCOPIC MINERALS	_____
QUANTITY	<u>MINOR</u>		
COLOR	<u>WHITE</u>		
FORM	<u>ENCRASTATIONS ON PIPE</u>	ALTERATION	<u>NONE</u>
SINTER: <u>NONE</u>		RX TYPE (AT DEPTH)	<u>RHYOLITE ?</u>
TYPE	_____	WATER USED FOR IMMEDIATE AREA	<u>WATERING LIVESTOCK</u>
QUANTITY	_____	USED FOR	" "
COLOR	_____		
FORM	_____	QUALITY OF SAMPLE: EXC., <u>GOOD</u> , POOR	

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14034 Date 6/25/80 Time 4:00 pm
Name CAT RANCH WELL Location: Co. SOC State NM.
Sec. 7 Twp. 4S R. 5W ; km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 6790 Quad. MOUNT WITHINGTON
Sampler JL + HO

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

DESCRIPTION:

WATER TEMP. °C 19.0° DISCHARGE 5 gpm/Lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. 33° DEPTH _____
ODOR NONE BORE 6" CASING
FLUID COLOR CLEAR PUMP TYPE AEROMOTOR WINDMILL
FLUID TASTE GOOD STATIC HEAD _____
BUBBLING NO SCALING _____
BOILING NO TYPE OF PIPING _____
VEGETATION YES ARTESIAN HEAD NONE
FLUID ISSUES FROM PUMPING WELL ROCK DATA:

TYPE (SURFACE) Qal - WITH RHYOLITE + BASALT
COLOR MED. BROWN

SALT:

GRAIN SIZE 0.3 m cobbles
MEGASCOPIC MINERALS _____
TYPE CaCO₃?
QUANTITY MINOR
COLOR WHITE
FORM ENCrustation ON PIPE ALTERATION NONE

SINTER:

RX TYPE (AT DEPTH) RHYOLITE?
TYPE _____ WATER USED FOR LIVESTOCK
QUANTITY _____ IMMEDIATE AREA USED FOR CORRAL
COLOR _____
FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

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



08 4111

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14035 Date 6/27/60 Time 1:00 pm
 Name PUERTECITO WELL Location: Co. SOC. State NM
 Sec. 19 Twp. S S R. 3W ; km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 6474 Quad. PUERTECITO GAP
 Sampler JL

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

DESCRIPTION:

WATER TEMP. °C	<u>40.0 °C</u>	DISCHARGE	<u>15</u> <u>gpm/lpm</u>
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>31.5 °C</u>	DEPTH	<u>?</u>
ODOR	<u>NONE</u>	BORE	<u>?</u>
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	<u>?</u>
FLUID TASTE	<u>GOOD</u>	STATIC HEAD	<u>?</u>
BUBBLING	<u>NO</u>	SCALING	<u>NONE</u>
BOILING	<u>NO</u>	TYPE OF PIPING	<u>1 1/2" GALVANIZED PIPE</u>
VEGETATION	<u>YES</u>	ARTESIAN HEAD	<u>APPARENTLY</u>
FLUID ISSUES FROM	<u>PIPE FROM WELL;</u>	ROCK DATA:	
	<u>APPARENTLY ARTESIAN; PIPE COMES OUT OF</u>	TYPE (SURFACE)	<u>Qc1 WITH RHYOLITE COBBLES</u>
	<u>GROUND BUT NOT VISIBLY CONNECTED TO EITHER</u>	COLOR	<u>MEDIUM BROWN</u>
	<u>OF TWO WELLS. HIGH TEMPERATURE MAY</u>	GRAIN SIZE	<u>UP TO 5 CM IN RHYOLITE</u>
SALT:	<u>BE DUE TO SOLAR HEATING OF PIPE IF</u>	MEGASCOPIC	
	<u>WATER COMES FROM DISTANT WELL (?)</u>	MINERALS	<u>QTZ, SANIDINE</u>
	<u>NONE</u> TYPE _____		
QUANTITY	_____		
COLOR	_____		
FORM	_____	ALTERATION	<u>NONE</u>
SINTER: <u>NONE</u>		RX TYPE (AT DEPTH)	<u>SAME</u>
TYPE	_____	WATER USED FOR	<u>CATTLE</u>
QUANTITY	_____	IMMEDIATE AREA	
COLOR	_____	USED FOR	<u>GRAZING</u>
FORM	_____	QUALITY OF SAMPLE: EXC., <u>GOOD</u> , POOR	
PROBABLE CAUSE OF MANIFESTATION	<u>ARTESIAN WELL ?</u>		
PROPERTY OWNED BY	<u>Reinhart Ranch ?</u>		
PREVIOUS AND/OR CURRENT LEASES	_____		



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14036 Date 6/27/80 Time 5:15 pm
 Name SAWMILL SPRING Location: Co. SOC. State N.M.
 Sec. 4 Twp. 5S R. 3W ; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 6635 Quad. SOUTH BALDY
 Sampler JL

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

DESCRIPTION:

WATER TEMP. °C	<u>14°C</u>	DISCHARGE	<u>5</u> <u>gpm</u> /Lpm
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	_____	DEPTH	_____
ODOR	<u>NONE</u>	BORE	_____
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	_____
FLUID TASTE	<u>GOOD</u>	STATIC HEAD	_____
BUBBLING	<u>NO</u>	SCALING	_____
BOILING	<u>NO</u>	TYPE OF PIPING	_____
VEGETATION	<u>ABUNDANT</u>	ARTESIAN HEAD	_____
FLUID ISSUES FROM	<u>SMALL BOB IN SAWMILL CANYON</u>	ROCK DATA:	
SALT:	<u>NONE</u>	TYPE (SURFACE)	<u>RHYOLITE + ANDESITE PORPH.</u>
TYPE	_____	COLOR	<u>REDDISH PINK DARK GRAY</u>
QUANTITY	_____	GRAIN SIZE	<u>3 mm IN PORPH</u>
COLOR	_____	MEGASCOPIC MINERALS	<u>PLAG. FELDSPARS? (TOO SOFT)</u>
FORM	_____	ALTERATION	<u>NONE</u>
SINTER:	<u>NONE</u>	RX TYPE (AT DEPTH)	<u>ANDESITE PORPH.</u>
TYPE	_____	WATER USED FOR IMMEDIATE AREA	<u>CATTLE</u>
QUANTITY	_____	USED FOR	<u>NOTHING</u>
COLOR	_____	QUALITY OF SAMPLE: EXC., <u>GOOD</u> , POOR	<u>→ FILTERED</u>
FORM	_____		

PROBABLE CAUSE OF MANIFESTATION FRACTURES ALONG CONTACT OF RHYOLITE + ANDESITE PORPH.

PROPERTY OWNED BY CIBOLA NAT'L FOREST

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14037 Date 6/28/80 Time 10:30 am
 Name EAST BEAR TRAP SPRING Location: Co. SOC State NM
 Sec. 12 Twp. 55 R. 7W ; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 8530 Quad. MONICA SADDLE
 Sampler JL

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

DESCRIPTION:

WATER TEMP. °C	<u>8°C</u>	DISCHARGE	<u>2</u> <u>gpm/Lpm</u>
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>15°C</u>	DEPTH	_____
ODOR	<u>NONE</u>	BORE	_____
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	_____
FLUID TASTE	<u>GOOD</u>	STATIC HEAD	_____
BUBBLING	<u>NO</u>	SCALING	_____
BOILING	<u>NO</u>	TYPE OF PIPING	_____
VEGETATION	<u>YES</u>	ARTESIAN HEAD	_____
FLUID ISSUES FROM	<u>BLACK PLASTIC PIPE</u>	ROCK DATA:	
	<u>BELOW CEMENT WALL</u>	TYPE (SURFACE)	<u>RHYOLITE PURPH.</u>
		COLOR	<u>PURPLE</u>
<u>SALT:</u>	<u>NONE</u>	GRAIN SIZE	<u>3 mm</u>
		MEGASCOPIC MINERALS	<u>QTZ, SANIDINE</u>
TYPE	_____		
QUANTITY	_____		
COLOR	_____		
FORM	_____	ALTERATION	<u>NONE</u>
<u>SINTER:</u>	<u>NONE</u>	RX TYPE (AT DEPTH)	<u>SAME</u>
TYPE	_____	WATER USED FOR IMMEDIATE AREA	<u>NOTHING</u>
QUANTITY	_____	USED FOR	<u>CAMP GROUND</u>
COLOR	_____		
FORM	_____	QUALITY OF SAMPLE: EXC., <u>GOOD</u> , POOR	

PROBABLE CAUSE OF MANIFESTATION FRACTURES IN RHYOLITE, POSSIBLY METEORIC

PROPERTY OWNED BY CIBOLA NAT'L FOREST

PREVIOUS AND/OR CURRENT LEASES _____

NEGATIVE

UNDEREXPOSED

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14038 Date 6/30/80 Time 1:30 pm
 Name UNNAMED SPRING Location: Co. SOC State NM
 Sec. 2 Twp. 6S R. 7W ; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 7760 Quad. DRY BUCK PEAKS
 Sampler JL

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

DESCRIPTION:

WATER TEMP. °C	<u>14.0 °C</u>	DISCHARGE	<u>5</u> <u>gpm</u> /Lpm
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>26.5 °C</u>	DEPTH	_____
ODOR	<u>NONE</u>	BORE	_____
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	_____
FLUID TASTE	<u>GOOD</u>	STATIC HEAD	_____
BUBBLING	<u>NO</u>	SCALING	_____
BOILING	<u>NO</u>	TYPE OF PIPING	_____
VEGETATION	<u>GRASSES & ALGAE</u>	ARTESIAN HEAD	_____
FLUID ISSUES FROM	<u>SILTY GR. IN CHIMNEY</u>	ROCK DATA:	
<u>CANYON</u>	_____	TYPE (SURFACE)	<u>RHYOLITE PORPH. + OBSIDIAN</u>
		COLOR	<u>LT. PURPLE</u> <u>BLACK</u>
SALT: <u>NONE</u>		GRAIN SIZE	<u>3mm</u>
TYPE	_____	MEGASCOPIC MINERALS	<u>QTZ, K-SPAR, BIOTITE</u>
QUANTITY	_____	ALTERATION	<u>NONE</u>
COLOR	_____	RX TYPE (AT DEPTH)	<u>SAME</u>
FORM	_____	WATER USED FOR IMMEDIATE AREA	<u>NOTHING</u>
SINTER: <u>NONE</u>		USED FOR	<u>GRAZING</u>
TYPE	_____	QUALITY OF SAMPLE: EXC., <u>GOOD</u> , POOR - FILTERED	
QUANTITY	_____		
COLOR	_____		
FORM	_____		

PROBABLE CAUSE OF MANIFESTATION FRACTURES IN RHYOLITE

PROPERTY OWNED BY CIBOLA NAT'L FOREST

PREVIOUS AND/OR CURRENT LEASES _____



08 ATMP

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14039 Date 6/30/80 Time 3:45 pm
 Name OJO CALIENTE Location: Co. SOC. State NM
 Sec. 31 Twp. 8S R. 7W ; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 6260 Quad. MONTANA BUTTE
 Sampler JL

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

DESCRIPTION:

WATER TEMP. °C	<u>27.5 °C</u>	DISCHARGE	<u>100</u> <u>gpm</u> /Lpm
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>30.0 °C</u>	DEPTH	_____
ODOR	<u>NONE</u>	BORE	_____
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	_____
FLUID TASTE	<u>GOOD</u>	STATIC HEAD	_____
BUBBLING	<u>NO</u>	SCALING	_____
BOILING	<u>NO</u>	TYPE OF PIPING	_____
VEGETATION	<u>ALGAE, GRASSES, CHICKWEED</u>	ARTESIAN HEAD	_____

FLUID ISSUES FROM ALLUVIAL GRAVEL IN
SPRING CANYON

ROCK DATA:

TYPE (SURFACE) COBBLES ARE BANDED, VESICULAR
VOLCANIC RK IF INTERMEDIATE
COMPOSITION (DACITE?)
 COLOR PURPLE + LT BLUISH GRAY
 GRAIN SIZE MEGASCOPIC
 MINERALS QTZ, PLAG, FELDSPARS,
COPPER COLORED MICA.

SALT:

TYPE NaCl
 QUANTITY MINOR
 COLOR WHITE
 FORM ENCrustATIONS ON GRAVEL

ALTERATION NONE

SINTER:

NONE
 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 FAULTING IN VOLCANICS

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14040 Date 7/15/80 Time 10:30 am
Name GALLINA SPRING Location: Co. SIERRA State N.M.
Sec. 14 Twp. 13S R. 7W ; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 5320 Quad. THUMB TANK PEAK
Sampler JL

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

DESCRIPTION:

WATER TEMP. °C 22°C - POSS. SOLAR HEATED, THOUGH DISCHARGE 15 gpm/Lpm
SPRING SHADED WHILE TEMP. TAKEN

GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. 32.0°C DEPTH _____
ODOR NONE BORE _____
FLUID COLOR CLEAR PUMP TYPE _____
FLUID TASTE SLIGHTLY ALKALINE? STATIC HEAD _____
BUBBLING NO SCALING _____
BOILING NO TYPE OF PIPING _____
VEGETATION GRASS, ALGAE, CHICKWEED ARTESIAN HEAD _____

FLUID ISSUES FROM PVC PIPE TO WOODEN ROCK DATA:
Box; HEAD OF SPRING IS CEMENT CASING, TYPE (SURFACE) INTERMEDIATE TO MAFFIC VOLCANICS
WATER TOO DEEP TO REACH COLOR BLACK, PURPLE, MED. GRAY

SALT: NONE GRAIN SIZE 5 mm IN INTERMEDIATE PORPH.
TYPE _____ MEGASCOPIC MINERALS PYROXENE, PLAG. FELDSPARS

QUANTITY _____
COLOR _____
FORM _____ ALTERATION NONE

SINTER: NONE RX TYPE (AT DEPTH) SAME
TYPE _____ WATER USED FOR DOMESTIC USE?
QUANTITY _____ IMMEDIATE AREA USED FOR RANCH

COLOR _____
FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR - NEEDS FILTERING

PROBABLE CAUSE OF MANIFESTATION FRACTURES IN VOLCANICS
PROPERTY OWNED BY LAADER RANCH
PREVIOUS AND/OR CURRENT LEASES _____



08 A. 100

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14041 Date 7/15/80 Time 1:30 pm
 Name BULLDOZER SPRING Location: Co. SIERRA State N.M.
 Sec. 25 Twp. 12S R. 7W ; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 5500 Quad. THUMB TANK PEAK
 Sampler JL

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

DESCRIPTION:

WATER TEMP. °C 26.0°C - SOLAR HEATED IN SHALLOW H₂O DISCHARGE 2 gpm/Lpm
 GROUND TEMP. °C _____ WELL DATA:
 AIR TEMP. 32.5°C DEPTH _____
 ODOR NONE BORE _____
 FLUID COLOR CLEAR PUMP TYPE _____
 FLUID TASTE GOOD STATIC HEAD _____
 BUBBLING NO SCALING _____
 BOILING NO TYPE OF PIPING _____
 VEGETATION GRASS, ALGAE ARTESIAN HEAD _____
 FLUID ISSUES FROM CONTACT OF BULLDOZED ALLUVIUM & BEDROCK; SAMPLE FILTERED ROCK DATA:
 TYPE (SURFACE) LATITE PORPHYRY
 COLOR MEDIUM GRAY
 SALT: NONE GRAIN SIZE 5mm
 TYPE _____ MEGASCOPIC MINERALS PLAG FELDSPAR,
 QUANTITY _____ AMPHIBOLE (?), BIOTITE, SOME CALCITE
 COLOR _____ DRUSE ON FRACTURES
 FORM _____ ALTERATION NONE
 SINTER: NONE RX TYPE (AT DEPTH) SAME
 TYPE _____ WATER USED FOR IMMEDIATE AREA CATTLE
 QUANTITY _____ USED FOR BULLFROG POND
 COLOR _____
 FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR
 PROBABLE CAUSE OF MANIFESTATION FRACTURES IN LATITE PORPHYRY FILTERED
 PROPERTY OWNED BY LADDER RANCH
 PREVIOUS AND/OR CURRENT LEASES _____



JULY 88

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14042 Date 7/16/80 Time 1:00 PM
 Name UNNAMED WINDMILL Location: Co. SIERRA State NM
 Sec. 26 Twp. 13S R. 5W ; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 4700 Quad. CUCHILLO
 Sampler JL

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

DESCRIPTION:

WATER TEMP. °C	<u>21.2°</u>	DISCHARGE	<u>ERRATIC</u> gpm/Lpm
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>41.0° C (THAT'S RIGHT, 41° C)</u>	DEPTH	<u>10.0 m</u>
ODOR	<u>NONE</u>	BORE	_____
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	<u>WINDMILL</u>
FLUID TASTE	<u>GOOD</u>	STATIC HEAD	<u>H₂O @ 8.0 m BELOW SURF.</u>
BUBBLING	<u>NO</u>	SCALING	<u>NONE</u>
BOILING	<u>NO</u>	TYPE OF PIPING	<u>2" GALVANIZED</u>
"VEGETATION"	<u>MINNOWS IN TANK</u>	ARTESIAN HEAD	<u>NO</u>
FLUID ISSUES FROM	<u>PIPE FROM WINDMILL;</u>	ROCK DATA:	
	<u>SAMPLE FROM GEOTHERMAL LEASED</u>	TYPE (SURFACE)	<u>LOOSELY CONSOL. ALLUV. SS.</u>
	<u>AREA</u>	COLOR	<u>RED</u>
SALT: <u>NONE</u>		GRAIN SIZE	<u>VERY FINE GRAINED, ALMOST SILT</u>
TYPE	_____	MEGASCOPIC	
QUANTITY	_____	MINERALS	<u>PEBBLES + COBBLES OF</u>
COLOR	_____		<u>INTERMEDIATE VOLCANICS</u>
FORM	_____	ALTERATION	<u>NONE</u>
SINTER: <u>NONE</u>		RX TYPE (AT DEPTH)	<u>SAME</u>
TYPE	_____	WATER USED FOR	<u>CATTLE</u>
QUANTITY	_____	IMMEDIATE AREA	
COLOR	_____	USED FOR	<u>WATER TANK</u>
FORM	_____	QUALITY OF SAMPLE: EXC., GOOD, <u>POOR</u> - RUST PARTICLES	

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



JULY 88

PHOTO JL 1-18

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14043 Date 7/19/80 Time 11:15

Name UNNAMED WELL (WINDMILL NEAR GIFT AT) Location: Co. SIERRA State NM

Sec. 1 Twp. 16S R. 7W ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 5320 Quad. MILLSBORO 151

Sampler AS + JL

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

DESCRIPTION:

WATER TEMP. °C 23 C

DISCHARGE ERRATIC gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 31.5°C

DEPTH ?

ODOR NONE

BORE ?

FLUID COLOR CLEAR

PUMP TYPE AEROMOTOR WINDMILL

FLUID TASTE GOOD

STATIC HEAD ?

BUBBLING NO

SCALING CaCO₃

BOILING NO

TYPE OF PIPING 2" GALVANIZED

VEGETATION ALGAE + GRASSES

ARTESIAN HEAD NO

FLUID ISSUES FROM PIPE FROM WINDMILL

ROCK DATA:

TYPE (SURFACE) SILTY QAL, FEW COBBLES OF INTERMEDIATE TO MAFIC VOLCANICS

COLOR _____

SALT:

GRAIN SIZE _____
MEGASCOPIC MINERALS AMPHIBOLE (7mm)

TYPE CaCO₃

PLAGIOCLASE FELDSPARS (10mm)

QUANTITY MINOR

COLOR WHITE

FORM ENCrustation ON PIPE

ALTERATION NONE

SINTER:

NONE

RX TYPE (AT DEPTH) ?

TYPE _____

WATER USED FOR IMMEDIATE AREA CATTLE
USED FOR LOADING CORRAL

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. 14044 Date 7/19/80 Time 12:25

Name UNNAMED WELL Location: Co. SIERRA State NM

Sec. 2 Twp. 16S R. 7W; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation _____ Quad. HILLSBORO 15'

Sampler AS + JL

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

DESCRIPTION:

WATER TEMP. °C ? (BLACK PIPE HEATS H₂O) DISCHARGE ERRATIC gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 33.5°C

DEPTH ?

ODOR _____

BORE 4"

FLUID COLOR CLEAR

PUMP TYPE AERO WINDMILL

FLUID TASTE _____

STATIC HEAD !

BUBBLING No

SCALING CaCO₃

BOILING No

TYPE OF PIPING 2" BLACK PLASTIC

VEGETATION YES

ARTESIAN HEAD No

FLUID ISSUES FROM BLACK PLASTIC PIPE

ROCK DATA:

FROM WINDMILL (25 m away)

TYPE (SURFACE) INTERMEDIATE TO MAFIC PORPH.

COLOR MED. TO DARK GRAY

SALT:

GRAIN SIZE UP TO 15 CM

TYPE CaCO₃

MEGASCOPIC MINERALS K-FELDSPAR (ALMOST

QUANTITY MINOR

EUHEDRAL), PLAC. FELDSPAR, BIOTITE

COLOR WHITE

FORM ENCrustATION ON OUTSIDE OF TANK

ALTERATION NONE

SINTER: NONE

RX TYPE (AT DEPTH) SAME

TYPE _____

WATER USED FOR IMMEDIATE AREA CATTLE

QUANTITY _____

USED FOR WATERING HOLE

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



08 A111

PHOTO JL 1-20

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14045 Date 7/19/80 Time 2:15 pm

Name UNNAMED WELL Location: Co. _____ State _____

Sec. SW, SE, SW, 10 Twp. 16S R. 7W ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 5260 Quad. HILLSBORO

Sampler JL & AS

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

DESCRIPTION:

WATER TEMP. °C 22°C

DISCHARGE ERRATIC gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 33

DEPTH 24.0

ODOR No

BORE 6"

FLUID COLOR CLEAR

PUMP TYPE WINDMILL

FLUID TASTE GOOD

STATIC HEAD ?

BUBBLING No

SCALING CaCO₃

BOILING No

TYPE OF PIPING 2" GALVANIZED

VEGETATION ALGAE

ARTESIAN HEAD _____

FLUID ISSUES FROM PIPE FROM WINDMILL

ROCK DATA:

TYPE (SURFACE) FINE QZ w/ COBBLES OF RHYOLITE, GRANITE AND DESITE

COLOR PURPLE PINK BEIGE

GRAIN SIZE 5mm
MEGASCOPIC MINERALS QZ, K-SPAR, BIOTITE,

AMPHIBOLE

SALT:

TYPE CaCO₃

QUANTITY MINOR

COLOR WHITE

FORM ENCrustATION ON PIPE

ALTERATION NONE

SINTER:

NONE

RX TYPE (AT DEPTH) ?

TYPE _____

WATER USED FOR IMMEDIATE AREA CATTLE
USED FOR WATERING TANK

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY STERLING ROBERTS?

PREVIOUS AND/OR CURRENT LEASES _____



JULY 80

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14046 Date 7/19/80 Time 3:15 pm
 Name UN NAMED SPRING WARM SPRING CANYON Location: Co. SIERRA State NM
 Sec. 4 Twp. 16S R. 7W; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 5400 Quad. HILLSBORO 15'
 Sampler AS + JL

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

DESCRIPTION:

WATER TEMP. °C	<u>28°C (POSS. SOLAR)</u>	DISCHARGE	<u>4</u> <u>gpm/Lpm</u>
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>33.5°C</u>	DEPTH	_____
ODOR	<u>OBSCURED BY COW FECELS</u>	BORE	_____
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	_____
FLUID TASTE	_____	STATIC HEAD	_____
BUBBLING	<u>NO</u>	SCALING	_____
BOILING	<u>NO</u>	TYPE OF PIPING	_____
VEGETATION	<u>ALGAE, GRASSES</u>	ARTESIAN HEAD	_____
FLUID ISSUES FROM	<u>CONTACT OF RHYOLITE BRECCIA & CREAM COLORED ASH</u>	ROCK DATA:	
		TYPE (SURFACE)	<u>RHYOLITE BRECCIA + ASH</u>
		COLOR	<u>REDDISH W/ LITHIC FRAGMENTS BOTH MORE MAFIC & ALUTE FELSIC</u>
		GRAIN SIZE	<u>LITHIC FRAGMENTS UP TO 30 CM</u>
		MEGASCOPIC MINERALS	<u>PLAG. FELDSPAR AMPHIBOLE</u>
			<u>(IN MAFIC LITHIC FRAG.)</u>
<u>SALT:</u>		ALTERATION	<u>NONE</u>
TYPE	<u>NaCl</u>	RX TYPE (AT DEPTH)	<u>RHYOLITE BRECCIA</u>
QUANTITY	<u>MINOR</u>	WATER USED FOR IMMEDIATE AREA	<u>CATTLE</u>
COLOR	<u>WHITE</u>	USED FOR	<u>NOTHING</u>
FORM	<u>ENCrustATION ON ROCKS & SOIL</u>	QUALITY OF SAMPLE: EXC., <u>GOOD</u> , POOR	
<u>SINTER:</u>	<u>NONE</u>		
TYPE	_____		
QUANTITY	_____		
COLOR	_____		
FORM	_____		

PROBABLE CAUSE OF MANIFESTATION CONTACT OF RHYOLITE BRECCIA + ASH
 PROPERTY OWNED BY VERNON CUNNINGHAM
 PREVIOUS AND/OR CURRENT LEASES _____

NO PHOTO

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14047 Date 7/19/80 Time 3:55 pm
Name UNNAMED WELL Location: Co. SERRA State NM
Sec. 29 Twp. 15S R. 7W; km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 5740 Quad. HILLSBORO
Sampler AS + JL

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

DESCRIPTION:

WATER TEMP. °C 20°C DISCHARGE VARIABLE gpm/Lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. _____ DEPTH 350' (AS PER CUNNINGHAM)
ODOR NONE BORE 5"
FLUID COLOR CLEAR PUMP TYPE WINDMILL
FLUID TASTE GOOD STATIC HEAD ?
BUBBLING NO SCALING NO
BOILING NO TYPE OF PIPING 2" GALVANIZED
VEGETATION NO ARTESIAN HEAD NO
FLUID ISSUES FROM PIPE FROM WINDMILL ROCK DATA:
TYPE (SURFACE) DARK BROWN GAL
COLOR PEBBLES & COBBLES OF ANDESITE & RHYOLITE
GRAIN SIZE 3MM
MEGASCOPIC MINERALS SANDINE (RHYOLITE)
SALT: NONE PLAG. FELD. (ANDESITE)
TYPE _____ ALTERATION NONE
QUANTITY _____ RX TYPE (AT DEPTH) ANDESITE?
COLOR _____ WATER USED FOR CATTLE
FORM _____ USED FOR WATERING HOLE
SINTER: NONE TYPE _____ QUALITY OF SAMPLE: EXC., GOOD, POOR
TYPE _____

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY VERN CUNNINGHAM

PREVIOUS AND/OR CURRENT LEASES _____

No PHOTO

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14048 Date 7/19/80 Time 4:35 pm
Name UNNAMED WELL, GRAYBACK GULCH Location: Co. SIERRA State NM
Sec. 33 Twp. 15S R. 7W ; km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 5715 Quad. HILLSBORO 15'
Sampler AS + JL

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

DESCRIPTION:

WATER TEMP. °C 18 °C DISCHARGE VARIABLE gpm/Lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. 33 °C DEPTH 90 FT (AS PER OWNER)
ODOR NONE BORE 5"
FLUID COLOR CLEAR PUMP TYPE WINDMILL
FLUID TASTE GOOD STATIC HEAD ?
BUBBLING No SCALING CaCO3
BOILING No TYPE OF PIPING 1.5" GALVANIZED
VEGETATION No ARTESIAN HEAD NO
FLUID ISSUES FROM PIPE FROM WELL ROCK DATA:
TYPE (SURFACE) ANDESITE
COLOR DARK GREENISH GRAY
GRAIN SIZE APHANITIC ; COBBLES OF
MEGASCOPIC ANDESITE PURPH. w/
MINERALS PLAG. FELD. XTALS UP TO 10 mm
SALT:
TYPE CaCO3
QUANTITY MODERATELY HEAVY
COLOR WHITE
FORM ENCRUSTATIONS ON PIPE + TANK ALTERATION NONE
SINTER: NONE RX TYPE (AT DEPTH) ANDESITE
TYPE _____ WATER USED FOR CATTLE
QUANTITY _____ IMMEDIATE AREA USED FOR WATERING PINE
COLOR _____
FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____
PROPERTY OWNED BY VERNON CUNNINGHAM
PREVIOUS AND/OR CURRENT LEASES _____

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14049 Date 7/20/80 Time 12:00

Name RAILROAD WELL Location: Co. SIERRA State NM

Sec. 11 Twp. 17S R. 2W ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 4485 Quad. UPHAM

Sampler JL

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

DESCRIPTION:

WATER TEMP. °C 20.0 °C

DISCHARGE 10 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 35.5 °C

DEPTH ?

ODOR NONE

BORE 6"

FLUID COLOR CLEAR

PUMP TYPE YANMAR DIESEL ENGINE RUNNING

FLUID TASTE GOOD

STATIC HEAD ?

BUBBLING NO

SCALING NO

BOILING NO

TYPE OF PIPING 2.5" IRON

VEGETATION NO

ARTESIAN HEAD NO

FLUID ISSUES FROM PIPE IN CENTER OF

ROCK DATA:

- WATERING TANK; SUBMERSIBLE PUMP

TYPE (SURFACE) SANTA FE FORMATION?

WITH NO ENTRANCE AT WELL HEAD

COLOR LIGHT BROWN

SALT: NONE

GRAIN SIZE _____
MEGASCOPIC _____
MINERALS _____

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION NONE

SINTER: NONE

RX TYPE (AT DEPTH) SAME

TYPE _____

WATER USED FOR CATTLE
IMMEDIATE AREA
USED FOR WATERING TROUGH

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY NEIL GRAHAM RANCH, KENNETH BOMAN - MANAGER

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14050 Date 7/24/80 Time 9:10 am
 Name UNNAMED WINDMILL Location: Co. DOÑA ANA State NM
 Sec. 11 Twp. 20 S R. 1 W ; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 4360 ft Quad. SAN DIEGO MT. 15'
 Sampler JL

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

DESCRIPTION:

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

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 27°C

DEPTH _____

ODOR NONE

BORE 5"

FLUID COLOR CLEAR

PUMP TYPE WINDMILL

FLUID TASTE GOOD

STATIC HEAD ?

BUBBLING NO

SCALING CaCO₃

BOILING NO

TYPE OF PIPING 2.5" GALVANIZED

VEGETATION ALGAE IN TANK

ARTESIAN HEAD NO

FLUID ISSUES FROM PIPE FROM WINDMILL

ROCK DATA:

TYPE (SURFACE) SAND (QTZ) & CALICHE

COLOR MEDIUM BROWN; CREAMY

GRAIN SIZE MEDIUM GRAINED

MEGASCOPIC MINERALS QTZ

SALT:

TYPE CaCO₃

QUANTITY MINOR

COLOR WHITE

FORM ENCrustATION ON PIPE

ALTERATION NONE

SINTER: NONE

RX TYPE (AT DEPTH) SAME

TYPE _____

WATER USED FOR CATTLE

QUANTITY _____

IMMEDIATE AREA USED FOR WATERING HOLE

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., (GOOD) POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY NEW MEXICO A + M COLLEGE?

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14051 Date 6-11-80 Time 3:00 pm

Name Wells Spring Location: Co. Valencia State NM

Sec. 2 Twp. 11N R. 14W ; _____ km/mi _____ OF _____

Lat. 35°08' Long. 108°23' Elevation 8750 Quad. Kettner Canyon

Sampler XG (Gallup AMS)

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

DESCRIPTION:

WATER TEMP. °C 9°

DISCHARGE 20 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 29°C

DEPTH _____

ODOR -

BORE _____

FLUID COLOR clear

PUMP TYPE _____

FLUID TASTE good

STATIC HEAD _____

BUBBLING -

SCALING _____

BOILING -

TYPE OF PIPING _____

VEGETATION green algae

ARTESIAN HEAD _____

FLUID ISSUES FROM fractures in

ROCK DATA:

limestone - collected
from steel pipe

TYPE (SURFACE) limestone

COLOR gray

SALT:

GRAIN SIZE fine
MEGASCOPIC MINERALS none

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION none

SINTER:

RX TYPE (AT DEPTH) limestone

TYPE _____

WATER USED FOR IMMEDIATE AREA none
USED FOR National

QUANTITY _____

COLOR _____

Forest Cabin

FORM _____

QUALITY OF SAMPLE: EXC. GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION meteoric

PROPERTY OWNED BY National Forest Service

PREVIOUS AND/OR CURRENT LEASES -



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14052 Date 6/12/80 Time 10:00 am

Name OJO REDONDO Location: Co. VAL. State NM

Sec. 21 Twp. 11 N R. 12 W ; _____ km/mi _____ OF _____

Lat. 35° 08' Long. 108° 08' Elevation 8780 Quad. MT SEDGEWICK, N.M.

Sampler KG + JL (Gallup AMS)

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

DESCRIPTION:

WATER TEMP. °C	<u>10° C</u>	DISCHARGE	<u>SEEP</u> gpm/Lpm
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>18° C</u>	DEPTH	_____
ODOR	<u>None</u>	BORE	_____
FLUID COLOR	<u>Clear</u>	PUMP TYPE	_____
FLUID TASTE	<u>good</u>	STATIC HEAD	_____
BUBBLING	<u>no</u>	SCALING	_____
BOILING	<u>no</u>	TYPE OF PIPING	_____
VEGETATION	<u>algae + grass</u>	ARTESIAN HEAD	_____
FLUID ISSUES FROM	<u>cement box</u>	ROCK DATA:	
		TYPE (SURFACE)	<u>Gal</u>
		COLOR	<u>brown</u>
SALT: <u>None</u>		GRAIN SIZE	_____
TYPE	_____	MEGASCOPIC	_____
QUANTITY	_____	MINERALS	<u>—</u>
COLOR	_____		
FORM	_____	ALTERATION	<u>none</u>
SINTER: <u>none</u>		RX TYPE (AT DEPTH)	<u>HORNBLÉNDE SCHIST</u>
TYPE	_____	WATER USED FOR	<u>cattle watering</u>
QUANTITY	_____	IMMEDIATE AREA	
COLOR	_____	USED FOR	<u>grazing</u>
FORM	_____	QUALITY OF SAMPLE:	EXC., <u>GOOD</u> , POOR

PROBABLE CAUSE OF MANIFESTATION PROB. METEORIC, POSS. FROM DEPTH?

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14053 Date 6-12-80 Time 3:45 pm

Name Paxton Springs Location: Co. Valencia State NM

Sec. 2 Twp. 9N R. 12W ; _____ km/mi _____ OF _____

Lat. 35°00' Long. 108°8' Elevation 7710 ft. Quad. Paxton Springs

Sampler XJ + JL Gallup (AMS)

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

DESCRIPTION:

WATER TEMP. °C 8.5°c

DISCHARGE 75 gpm/Lpm
varies w/ seasons

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 21°c

DEPTH _____

ODOR _____

BORE _____

FLUID COLOR clear

PUMP TYPE _____

FLUID TASTE good

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING _____

VEGETATION grass, clover, algae

ARTESIAN HEAD _____

FLUID ISSUES FROM fractured

ROCK DATA:

Scorious lava @ contact w/
red siltstone

TYPE (SURFACE) siltstone + lava

COLOR reddish + black

SALT:

GRAIN SIZE fine
MEGASCOPIC MINERALS none

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION -

SINTER:

RX TYPE (AT DEPTH) red siltstone

TYPE _____

WATER USED FOR IMMEDIATE AREA drinking
USED FOR ranch

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC, GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION meteoric

PROPERTY OWNED BY Sy Anshutz

PREVIOUS AND/OR CURRENT LEASES Leasee: Louis Bright



XG 1,4

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14054 Date 6-13-80 Time 3:30 pm

Name Canipa Springs Location: Co. Valencia State NM

Sec. 12 Twp. 9N R. 8W ; _____ km/mi _____ OF _____

Lat. 35°00' Long. 107°45' Elevation 6197 Quad. Mc Cartys

Sampler XG (Albuquerque AMS)

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

DESCRIPTION:

WATER TEMP. °C 16°C DISCHARGE seep gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. 33°C DEPTH _____

ODOR none BORE _____

FLUID COLOR clear PUMP TYPE _____

FLUID TASTE slightly bitter STATIC HEAD _____

BUBBLING _____ SCALING _____

BOILING _____ TYPE OF PIPING _____

VEGETATION grass-green + black algae ARTESIAN HEAD _____

FLUID ISSUES FROM stone + cement ROCK DATA:

ground case TYPE (SURFACE) gal w/ lava chunks +

COLOR brown limestone outcrops

SALT: GRAIN SIZE MEGASCOPIC MINERALS medium

TYPE XCl? + (CaCO3) MINERALS none

QUANTITY rings - moderate

COLOR white

FORM powder ALTERATION none

SINTER: RX TYPE (AT DEPTH) crystalline limestone

TYPE _____ WATER USED FOR IMMEDIATE AREA cattle watering

QUANTITY _____ USED FOR cattle

COLOR _____

FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION fractures in limestone

PROPERTY OWNED BY Acama Indians Tribe

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14055 Date 6-17-80 Time 10:30 am

Name Seven Springs Location: Co. Bernalillo State NM

Sec. 21 Twp. 10N R. 5E ; _____ km/mi _____ OF _____

Lat. 35° 0' Long. 106° 5' Elevation 6,100 Quad. Tijeras

Sampler KJ (Albuquerque AMS)

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

DESCRIPTION:

WATER TEMP. °C 13

DISCHARGE 20 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 27

DEPTH _____

ODOR none

BORE _____

FLUID COLOR clear

PUMP TYPE _____

FLUID TASTE good

STATIC HEAD _____

BUBBLING -

SCALING _____

BOILING -

TYPE OF PIPING _____

VEGETATION green & tan algae

ARTESIAN HEAD _____

FLUID ISSUES FROM boulder conglomerate

ROCK DATA:

& fractures in black
intrusive

TYPE (SURFACE) limestone & green black
intrusives w/ qtz. veins

COLOR gray & black

SALT:

GRAIN SIZE fine
MEGASCOPIC MINERALS fossils in

TYPE _____

QUANTITY _____

limestone

COLOR _____

FORM _____

ALTERATION none

SINTER:

RX TYPE (AT DEPTH) black intrusive

TYPE _____

WATER USED FOR IMMEDIATE AREA drinking
USED FOR none

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION meteoric

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14056 Date 6-17-80 Time 2 pm

Name Wolfe Spring Location: Co. Bernalillo State NM

Sec. 14 Twp. 11N R. 5E ; km/mi _____ OF _____

Lat. 35.08' Long. 106.5' Elevation 7,500 Quad. Sandia Crest

Sampler XGJ (Albuquerque AMS)

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

DESCRIPTION:

WATER TEMP. °C 14°C DISCHARGE seep gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. 29°C DEPTH _____

ODOR none BORE _____

FLUID COLOR reddish due to sed. PUMP TYPE _____

FLUID TASTE good STATIC HEAD _____

BUBBLING - SCALING _____

BOILING - TYPE OF PIPING _____

VEGETATION algae ARTESIAN HEAD _____

FLUID ISSUES FROM _____ ROCK DATA:

fractures in sandstone TYPE (SURFACE) red fine @al

(silicic cement) COLOR reddish brown

SALT: GRAIN SIZE fine

TYPE _____ MEGASCOPIC MINERALS none

QUANTITY _____

COLOR _____

FORM _____ ALTERATION none

SINTER: RX TYPE (AT DEPTH) hematite stained sandstone (almost quartzite)

TYPE _____ WATER USED FOR IMMEDIATE AREA

QUANTITY _____ USED FOR _____

COLOR _____

FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION probably meteoric

PROPERTY OWNED BY National Forest

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14057 Date 6-17-80 Time 4:15pm

Name Cole Spring Location: Co. Bernalillo State NM

Sec. 34 (unsectioned) Twp. 11N R. 5E ; _____ km/mi _____ OF _____

Lat. 35° 7.5' Long. 106.5° Elevation 7,400' Quad. Sandia Crest

Sampler KJ (Albuquerque AMS)

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

DESCRIPTION:

WATER TEMP. °C 10°C

DISCHARGE 60 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 26°C

DEPTH _____

ODOR none

BORE _____

FLUID COLOR clear

PUMP TYPE _____

FLUID TASTE good

STATIC HEAD _____

BUBBLING —

SCALING _____

BOILING —

TYPE OF PIPING _____

VEGETATION green algae

ARTESIAN HEAD _____

FLUID ISSUES FROM fractures in

ROCK DATA:

sandstone (silicic cement)

TYPE (SURFACE) sandstone - almost quartzite

COLOR white pink - red iron staining

SALT:

GRAIN SIZE medium

TYPE _____

MEGASCOPIC MINERALS quartz +

QUANTITY _____

some K-spar

COLOR _____

FORM _____

ALTERATION none

SINTER:

RX TYPE (AT DEPTH) med-grained quartzite

TYPE _____

WATER USED FOR IMMEDIATE AREA drinking

QUANTITY _____

USED FOR National Forest

COLOR _____

FORM _____

QUALITY OF SAMPLE: (EXC), GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION meteoric

PROPERTY OWNED BY National Forest Service

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14058 Date 6-22-80 Time 4:30
 Name Los Alamos Spring Location: Co. Socorro State NM
 Sec. 13 Twp. 1N R. 1E ; 6.6 km/mi SE OF La Joya
 Lat. 34° 15' Long. 106° 52.5' Elevation 4930 Quad. La Joya
 Sampler XG

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

DESCRIPTION:

WATER TEMP. °C	<u>22° C</u>	DISCHARGE	<u>seep</u>	gpm/Lpm
GROUND TEMP. °C	_____	WELL DATA:		
AIR TEMP.	<u>37° C</u>	DEPTH	_____	
ODOR	<u>none</u>	BORE	_____	
FLUID COLOR	<u>clear</u>	PUMP TYPE	_____	
FLUID TASTE	<u>good</u>	STATIC HEAD	_____	
BUBBLING	<u>-</u>	SCALING	_____	
BOILING	<u>-</u>	TYPE OF PIPING	_____	
VEGETATION	<u>grass (tadpoles)</u>	ARTESIAN HEAD	_____	
FLUID ISSUES FROM	<u>fractures in sandstone bedrock</u>	ROCK DATA:		
		TYPE (SURFACE)	<u>welded conglomerate</u>	
		COLOR	<u>red-gray</u>	
		GRAIN SIZE	<u>med -> coarse</u>	
		MEGASCOPIC MINERALS	<u>quartz P</u>	
			<u>feldspars</u>	
		ALTERATION	<u>none</u>	
SALT:		RX TYPE (AT DEPTH)	<u>sandstone</u>	
TYPE	_____	WATER USED FOR IMMEDIATE AREA	_____	
QUANTITY	_____	USED FOR	<u>wildlife refuge</u>	
COLOR	_____			
FORM	_____	QUALITY OF SAMPLE:	<u>EXC.</u> , GOOD, POOR	

PROBABLE CAUSE OF MANIFESTATION meteoric
 PROPERTY OWNED BY state game dept.
 PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14059 Date 6-23-80 Time 2:30pm
Name Rock Spring Location: Co. Socorro State NM
Sec. 12 Twp. 9S R. 6W ; _____ km/mi _____ OF _____
Lat. 33.5° Long. 107.5° Elevation 7177 Quad. Vicks Peak
Sampler KG

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

DESCRIPTION:

WATER TEMP. °C 13.5° DISCHARGE 10 gpm/Lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. 31.5° DEPTH _____
ODOR none BORE _____
FLUID COLOR clear PUMP TYPE _____
FLUID TASTE good STATIC HEAD _____
BUBBLING - SCALING _____
BOILING - TYPE OF PIPING _____
VEGETATION grass, clover ARTESIAN HEAD _____

FLUID ISSUES FROM fractures in basalt & rhyolite (perhaps at contact?)

ROCK DATA:
TYPE (SURFACE) rhyolite + basalt
COLOR pink + black
GRAIN SIZE fine
MEGASCOPIC MINERALS medium

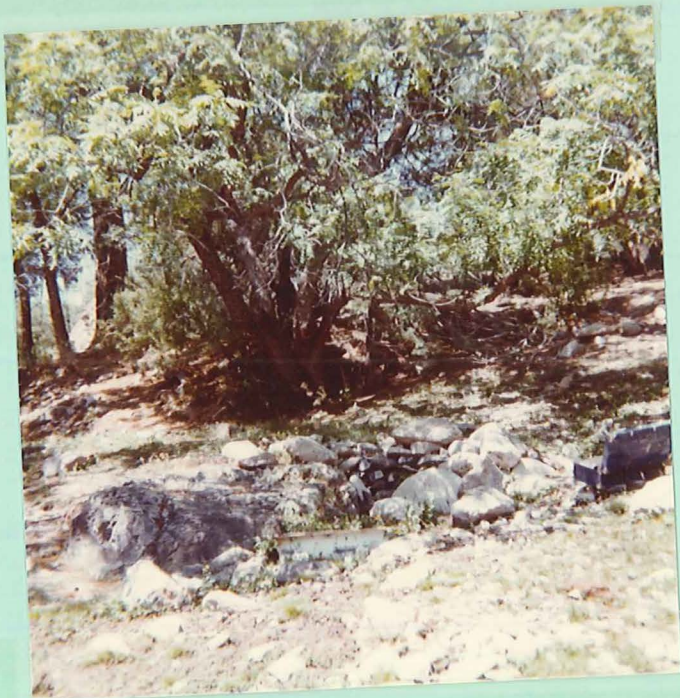
SALT:
TYPE _____
QUANTITY _____
COLOR _____
FORM _____

qtz. phenocrysts
ALTERATION none

SINTER:
TYPE _____
QUANTITY _____
COLOR _____
FORM _____

RX TYPE (AT DEPTH) basalt
WATER USED FOR IMMEDIATE AREA USED FOR cattle National Forest

PROBABLE CAUSE OF MANIFESTATION meteoric
PROPERTY OWNED BY National Forest
PREVIOUS AND/OR CURRENT LEASES _____
QUALITY OF SAMPLE: EXC., GOOD, POOR



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14060 Date 6-24-80 Time 7:30 pm

Name Mulligan Gulch Well Location: Co. Socorro State NM

Sec. 35 Twp. 7S R. 3W ; _____ km/mi _____ OF _____

Lat. 33° 37.5' Long. 107° 17.5' Elevation 4793 Quad. Fort Craig

Sampler KD

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

DESCRIPTION:

WATER TEMP. °C 27°C

DISCHARGE 100 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 39°C

DEPTH 240 ft.

ODOR none

BORE _____

FLUID COLOR clear

PUMP TYPE submersible

FLUID TASTE good

STATIC HEAD _____

BUBBLING -

SCALING _____

BOILING -

TYPE OF PIPING _____

VEGETATION -

ARTESIAN HEAD _____

FLUID ISSUES FROM Cractures in rhyolite, large fault running thru valley

ROCK DATA:

TYPE (SURFACE) rhyolite

COLOR pinkish grain

GRAIN SIZE micro crystalline

MEGASCOPIC MINERALS medium

SALT:

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

9-12% phenocrysts

ALTERATION none

SINTER:

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

RX TYPE (AT DEPTH) rhyolite

WATER USED FOR IMMEDIATE AREA drinking

USED FOR private

home

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION water table - over fault

PROPERTY OWNED BY Patricia Willis, Box 246, Socorro NM 87801

PREVIOUS AND/OR CURRENT LEASES _____

Send Results



No PHOTO

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14061 Date 6-25-80 Time 11:45

Name Nogalita Spring Location: Co. Socorro State NM

Sec. 35 Twp. 8S R. 5W ; _____ km/mi _____ OF _____

Lat. 33° 30' Long. 107° 22.5' Elevation 5950 Quad. Steel Hill

Sampler YD

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

DESCRIPTION:

WATER TEMP. °C 21.5° C

DISCHARGE seep gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 37° C

DEPTH _____

ODOR none

BORE _____

FLUID COLOR clear

PUMP TYPE _____

FLUID TASTE good

STATIC HEAD _____

BUBBLING -

SCALING _____

BOILING -

TYPE OF PIPING _____

VEGETATION grassy, algae

ARTESIAN HEAD _____

FLUID ISSUES FROM fractures in

ROCK DATA:

tuff

TYPE (SURFACE) stream conglomerate

COLOR pinks & blacks

SALT:

GRAIN SIZE microcrystalline

TYPE _____

MEGASCOPIC MINERALS quartz phenos

QUANTITY _____

in tuff, some

COLOR _____

flow banding?

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) ryholitic welded tuff

TYPE _____

WATER USED FOR IMMEDIATE AREA cattle

QUANTITY _____

USED FOR Forest Service

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION meteoric

PROPERTY OWNED BY National Forest Service

PREVIOUS AND/OR CURRENT LEASES _____

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14062 Date 7-2-80 Time 1:30

Name Chavez well Location: Co. Sierra State NM

Sec. 20 Twp. 10S R. 1E ; _____ km/mi _____ OF _____

Lat. 33°15' Long. 107°0' Elevation 4,815 Quad. Malpais Well

Sampler XG

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

DESCRIPTION:

WATER TEMP. °C 25 DISCHARGE 20 gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. 33°C DEPTH _____

ODOR none BORE _____

FLUID COLOR clear PUMP TYPE _____

FLUID TASTE taste CaCO₃ - terrible STATIC HEAD _____

BUBBLING - SCALING _____

BOILING - TYPE OF PIPING 6" casing

VEGETATION - ARTESIAN HEAD _____

FLUID ISSUES FROM aquifer ROCK DATA:

TYPE (SURFACE) gal

COLOR red-brown

GRAIN SIZE medium

MEGASCOPIC MINERALS limestone

TYPE _____

QUANTITY _____ pebbles

COLOR _____

FORM _____

ALTERATION none - lots of

encrusting CaCO₃

RX TYPE (AT DEPTH) limestone

SINTER:

TYPE _____

WATER USED FOR IMMEDIATE AREA cattle

QUANTITY _____

USED FOR ranch

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION aquifer in limestone beneath

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14063 Date 7-3-80 Time 10:00 am
Name Iron Well Location: Co. Sierra State NM
Sec. 27 Twp. 11S R. 1W ; km/mi _____ OF _____
Lat. 33° 15' Long. 107° Elevation 4800 Quad. Malpais Well
Sampler KG & AS

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

DESCRIPTION:

WATER TEMP. °C 21.5°C DISCHARGE variable gpm/Lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. 25°C DEPTH _____
ODOR - BORE _____
FLUID COLOR clear PUMP TYPE _____
FLUID TASTE iron - terrible STATIC HEAD _____
BUBBLING - SCALING _____
BOILING - TYPE OF PIPING 8" casing
VEGETATION none ARTESIAN HEAD _____
FLUID ISSUES FROM aquifer in limestone ROCK DATA:

SALT: TYPE _____ GRAIN SIZE fine -> med. alluvium
MEGASCOPIC MINERALS _____

QUANTITY _____ ALTERATION none - CaCO3 deposition
COLOR _____
FORM _____

SINTER: RX TYPE (AT DEPTH) alluvium &
TYPE _____ WATER USED FOR IMMEDIATE AREA cattle
QUANTITY _____ USED FOR ranch
COLOR _____

FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION aquifer
PROPERTY OWNED BY BLM
PREVIOUS AND/OR CURRENT LEASES grazing

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14064 Date 7-3-80 Time 4:30 pm
Name Oil Test Well Location: Co. Socorro State NM
Sec. 17 Twp. 13^s R. 1E ; km/mi _____ OF _____
Lat. 33° Long. 107° Elevation 5280 Quad. Sowell
Sampler XG & AS

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

DESCRIPTION:

WATER TEMP. °C 26°C (from tank) DISCHARGE variable gpm/Lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. 34.5°C DEPTH 300' (from rancher
ODOR none BORE _____
FLUID COLOR clear PUMP TYPE _____
FLUID TASTE okay STATIC HEAD _____
BUBBLING — SCALING _____
BOILING — TYPE OF PIPING 8" casing
VEGETATION — ARTESIAN HEAD _____

FLUID ISSUES FROM aquifer
Sample taken from tank
from pumping windmill

ROCK DATA:
TYPE (SURFACE) Gal
COLOR gray-brown
GRAIN SIZE fine -> medium
MEGASCOPIC MINERALS caliche &

SALT:
TYPE _____
QUANTITY _____
COLOR _____
FORM _____

limestone pebbles
ALTERATION none
RX TYPE (AT DEPTH) limestone
WATER USED FOR IMMEDIATE AREA cattle
USED FOR ranch

SINTER:
TYPE _____
QUANTITY _____
COLOR _____
FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION aquifer in limestone
PROPERTY OWNED BY near hot oil well (rancher said near boiling)
PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14065 Date 7-15-80 Time 1:30 pm

Name Sowell Well Location: Co. Sierra State NM

Sec. 27 Twp. 14S R. 2W ; _____ km/mi _____ OF _____

Lat. 33° Long. 107°15' Elevation 4750 Quad. Engle

Sampler _____

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

DESCRIPTION:

WATER TEMP. °C 21.5

DISCHARGE variable gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 30

DEPTH _____

ODOR none

BORE _____

FLUID COLOR clear

PUMP TYPE _____

FLUID TASTE good

STATIC HEAD _____

BUBBLING -

SCALING 8" casing

BOILING -

TYPE OF PIPING _____

VEGETATION -

ARTESIAN HEAD _____

FLUID ISSUES FROM aquifer in coarse sandstone

ROCK DATA:

TYPE (SURFACE) fine Gal

COLOR red brown

SALT:

GRAIN SIZE fine - medium

TYPE _____

MEGASCOPIC MINERALS caliche &

QUANTITY _____

limestone pebbles, coarse

COLOR _____

gray sandstone pebbles

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) coarse sandstone

TYPE _____

WATER USED FOR IMMEDIATE AREA horses, garden

QUANTITY _____

USED FOR ranch home

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION aquifer in sandstone

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14066 Date 7-16-80 Time 10:00 am
Name Rattlesnake Spring Location: Co. Sierra State NM
Sec. 18 Twp. 14S R. 3W ; _____ km/mi _____ OF _____
Lat. 33° Long. 107°15' Elevation 4686 Quad. Engle
Sampler K9

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

DESCRIPTION:

WATER TEMP. °C	<u>22</u>	DISCHARGE	<u>seep</u>	gpm/Lpm
GROUND TEMP. °C	_____	WELL DATA:		
AIR TEMP.	<u>31°c</u>	DEPTH	_____	
ODOR	<u>none</u>	BORE	_____	
FLUID COLOR	<u>clear</u>	PUMP TYPE	_____	
FLUID TASTE	<u>bad</u>	STATIC HEAD	_____	
BUBBLING	<u>-</u>	SCALING	_____	
BOILING	<u>-</u>	TYPE OF PIPING	_____	
VEGETATION	<u>algae-green</u>	ARTESIAN HEAD	_____	
FLUID ISSUES FROM	<u>fractures</u>	ROCK DATA:		
	<u>in limestone &</u>	TYPE (SURFACE)	<u>limestone</u>	
	<u>sandstone</u>	COLOR	<u>gray</u>	
SALT:		GRAIN SIZE	<u>fine</u>	
TYPE	_____	MEGASCOPIC MINERALS	_____	
QUANTITY	_____			
COLOR	_____			
FORM	_____	ALTERATION	<u>none</u>	
SINTER:		RX TYPE (AT DEPTH)	<u>limestones & sandstone</u>	
TYPE	_____	WATER USED FOR IMMEDIATE AREA	<u>cattle</u>	
QUANTITY	_____	USED FOR	<u>ranch</u>	
COLOR	_____			
FORM	_____	QUALITY OF SAMPLE: EXC., <u>GOOD</u> , POOR		
PROBABLE CAUSE OF MANIFESTATION	<u>meteoric</u>			
PROPERTY OWNED BY	<u>L7 Ranch ?</u>			
PREVIOUS AND/OR CURRENT LEASES	_____			

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14067 Date 7-16-80 Time 4:30
 Name Burner Well Location: Co. Sierra State NM
 Sec. 27 Twp. 15S R. 2W ; km/mi _____ OF _____
 Lat. 32° 45' Long. 107° 15' Elevation 4700 Quad. Upham
 Sampler KS

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

DESCRIPTION:

WATER TEMP. °C	<u>25.5</u>	DISCHARGE	<u>variable</u> gpm/Lpm
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>36</u>	DEPTH	_____
ODOR	<u>none</u>	BORE	_____
FLUID COLOR	<u>clear</u>	PUMP TYPE	_____
FLUID TASTE	<u>good</u>	STATIC HEAD	_____
BUBBLING	<u>-</u>	SCALING	<u>8" casing</u>
BOILING	<u>-</u>	TYPE OF PIPING	_____
VEGETATION	<u>-</u>	ARTESIAN HEAD	_____
FLUID ISSUES FROM	<u>aquifer in siltstones & limestones</u>	ROCK DATA:	
		TYPE (SURFACE)	<u>Gal</u>
		COLOR	<u>med. brown</u>
		GRAIN SIZE	<u>fine</u>
		MEGASCOPIC MINERALS	<u>pebbles of dark gray limestone & reddish siltstone</u>
SALT:		ALTERATION	<u>none</u>
TYPE	_____	RX TYPE (AT DEPTH)	<u>limestone & siltstone</u>
QUANTITY	_____	WATER USED FOR IMMEDIATE AREA	<u>cattle</u>
COLOR	_____	USED FOR	<u>ranch</u>
FORM	_____	QUALITY OF SAMPLE:	<u>EXC.</u> , GOOD, POOR
SINTER:		PROBABLE CAUSE OF MANIFESTATION	<u>aquifer</u>
TYPE	_____	PROPERTY OWNED BY	_____
QUANTITY	_____	PREVIOUS AND/OR CURRENT LEASES	_____
COLOR	_____		
FORM	_____		

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14068 Date 7-19-80 Time 9:15
 Name Upham well Location: Co. Sierra State NM
 Sec. 25 Twp. 16S R. 2W ; _____ km/mi _____ OF _____
 Lat. 32°45' Long. 107° Elevation 4547 Quad. Chicken Well
 Sampler KJ

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

DESCRIPTION:

WATER TEMP. °C	<u>23 °C</u>	DISCHARGE	<u>variable</u> gpm/Lpm
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>30 °C</u>	DEPTH	_____
ODOR	<u>none</u>	BORE	_____
FLUID COLOR	<u>clear</u>	PUMP TYPE	_____
FLUID TASTE	<u>good</u>	STATIC HEAD	_____
BUBBLING	<u>-</u>	SCALING	_____
BOILING	<u>-</u>	TYPE OF PIPING	_____
VEGETATION	<u>-</u>	ARTESIAN HEAD	_____
FLUID ISSUES FROM	<u>Underground</u>	ROCK DATA:	
<u>aquifer</u>	_____	TYPE (SURFACE)	<u>Gal</u>
		COLOR	<u>light brown</u>
		GRAIN SIZE	<u>fine-medium</u>
		MEGASCOPIC MINERALS	<u>medium gray</u>
SALT:			<u>limestone and red</u>
TYPE	_____		<u>siltstone conglomerate</u>
QUANTITY	_____	ALTERATION	<u>none</u>
COLOR	_____		
FORM	_____	RX TYPE (AT DEPTH)	_____
		WATER USED FOR IMMEDIATE AREA	<u>cattle</u>
SINTER:		USED FOR	<u>ranch</u>
TYPE	_____		
QUANTITY	_____	QUALITY OF SAMPLE:	<u>EXC.</u> , GOOD, POOR
COLOR	_____		
FORM	_____		
PROBABLE CAUSE OF MANIFESTATION	<u>aquifer</u>		
PROPERTY OWNED BY	_____		
PREVIOUS AND/OR CURRENT LEASES	_____		

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14069 Date 7-19-80 Time 10:00am
Name Chicken well Location: Co. Sierra State NM
Sec. 17 Twp. 17S R. 1W ; km/mi _____ OF _____
Lat. 32° 45' Long. 107° Elevation 4399 Quad. Chicken Well
Sampler XG

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

DESCRIPTION:

WATER TEMP. °C 26°C DISCHARGE variable gpm/Lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. 31°C DEPTH _____
ODOR none BORE _____
FLUID COLOR light brown PUMP TYPE _____
FLUID TASTE iron - from pipe? STATIC HEAD _____
BUBBLING - SCALING _____
BOILING - TYPE OF PIPING _____
VEGETATION - ARTESIAN HEAD _____
FLUID ISSUES FROM aquifer ROCK DATA:
TYPE (SURFACE) _____
COLOR medium brown
GRAIN SIZE _____
MEGASCOPIIC MINERALS _____
SALT: TYPE _____ ALTERATION none
QUANTITY _____ RX TYPE (AT DEPTH) _____
COLOR _____ WATER USED FOR IMMEDIATE AREA USED FOR _____
FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION aquifer
PROPERTY OWNED BY _____
PREVIOUS AND/OR CURRENT LEASES Geothermal

No PHOTO

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. 14070 Sample No. 14070 Date 7-21-80 Time 1:30

Name Brick Well Location: Co. Dona Ana State NM

Sec. 15 Twp. 20S R. 3W; km/mi _____ OF _____

Lat. 32° 30' Long. 107° 15' Elevation 5090 Quad. Souse Springs

Sampler JKJ

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

DESCRIPTION:

WATER TEMP. °C 23.5

DISCHARGE variable gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 32

DEPTH _____

ODOR none

BORE _____

FLUID COLOR light brown

PUMP TYPE _____

FLUID TASTE like iron

STATIC HEAD _____

BUBBLING -

SCALING CaCO₃ deposits

BOILING -

TYPE OF PIPING 8" casing

VEGETATION -

ARTESIAN HEAD _____

FLUID ISSUES FROM aquifer in basalts

ROCK DATA:

TYPE (SURFACE) basalt + tuff

COLOR black & light gray-pinks

GRAIN SIZE fine

MEGASCOPIC MINERALS quartz, hornblende

SALT:

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

scoriaceous

ALTERATION none

SINTER:

RX TYPE (AT DEPTH) basalt

TYPE _____

WATER USED FOR IMMEDIATE AREA cattle

QUANTITY _____

USED FOR ranch

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION aquifer

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14071 Date 7-21-80 Time 3:00 pm
Name Sierra Alta Well Location: Co. Doña Ana State NM
Sec. 14 Twp. 20S R. 3W ; km/mi _____ OF _____
Lat. 32° 30' Long. 107° 7.5' Elevation 4840 Quad. Sierra Alta
Sampler XG

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

DESCRIPTION:

WATER TEMP. °C 23

DISCHARGE variable gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 30

DEPTH _____

ODOR none

BORE _____

FLUID COLOR light brown

PUMP TYPE _____

FLUID TASTE metallic

STATIC HEAD _____

BUBBLING —

SCALING 8" casing

BOILING —

TYPE OF PIPING _____

VEGETATION —

ARTESIAN HEAD _____

FLUID ISSUES FROM aquifer in

ROCK DATA:

basalts?

TYPE (SURFACE) basalts & welded tuffs

COLOR black & gray

SALT:

GRAIN SIZE fine

TYPE _____

MEGASCOPIIC MINERALS quartz

QUANTITY _____

phenocrysts in tuff

COLOR _____

FORM _____

ALTERATION none

SINTER:

RX TYPE (AT DEPTH) basalt & tuffs

TYPE _____

WATER USED FOR IMMEDIATE AREA cattle

QUANTITY _____

USED FOR ranch

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION aquifer

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES _____

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14072 Date 7-21-80 Time 5:00 pm

Name Souse Spring Location: Co. Doña Ana State NM

Sec. 31 Twp. 19S R. 3W ; _____ km/mi _____ OF _____

Lat. 32°30' Long. 107°15' Elevation 4540 Quad. Souse Springs

Sampler X9

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

DESCRIPTION:

WATER TEMP. °C 27

DISCHARGE 25 gpm/Lpm

GROUND TEMP. °C 20

WELL DATA:

AIR TEMP. 29

DEPTH _____

ODOR none

BORE _____

FLUID COLOR clear

PUMP TYPE _____

FLUID TASTE good

STATIC HEAD _____

BUBBLING -

SCALING _____

BOILING -

TYPE OF PIPING _____

VEGETATION green algae

ARTESIAN HEAD _____

FLUID ISSUES FROM fractures in rhyolites & basalts

ROCK DATA:

TYPE (SURFACE) basalt & rhyolitic welded tuff

COLOR black & pink-gray

GRAIN SIZE fine

MEGASCOPIC MINERALS quartz & biotite

phenocrysts in tuff

SALT:

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION -

SINTER:

RX TYPE (AT DEPTH) basalts & tuffs

TYPE _____

WATER USED FOR IMMEDIATE AREA USED FOR hatch water supply ranch

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION metamorphic

PROPERTY OWNED BY BLM

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14073 Date 7/24/80 Time 12:00 AM

Name Adobe Well Location: Co. Dona Ana State N.M.

Sec. 31 Twp. 21S R. 2W ; 432 km/mi _____ OF _____

Lat. 32°26.5' Long. 107°5' Elevation 4685 Quad. Corralitos Ranch

Sampler WA + KG

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

DESCRIPTION:

WATER TEMP. °C 24°C

DISCHARGE Variable gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 38°C

DEPTH ?

ODOR No

BORE 6"

FLUID COLOR Clear

PUMP TYPE Jack-pump

FLUID TASTE Good

STATIC HEAD -

BUBBLING -

SCALING No

BOILING -

TYPE OF PIPING -

VEGETATION -

ARTESIAN HEAD -

FLUID ISSUES FROM pipe fed
by jack-pump

ROCK DATA:

TYPE (SURFACE) volcaniclastic sandstone
(or fine grained tuff)

COLOR purplish red.

SALT: None
TYPE _____

GRAIN SIZE _____
MEGASCOPIC _____
MINERALS _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION No

SINTER: None

RX TYPE (AT DEPTH) Same, welded tuffs?

TYPE _____

WATER USED FOR IMMEDIATE AREA Cattle
USED FOR _____

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION -

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES None



Photo KG-1-16

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14074 Date 7/24/80 Time 12:45 Pm

Name Big Gap Well Location: Co. Dona Ana State N.M

Sec. 21 Twp. 22S R. 2W ; 3344 km/mi _____ OF _____

Lat. 32° 22.5' Long. 107° 3.3' Elevation 4612 Quad. Corralitos Ranch

Sampler WA + KG

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

DESCRIPTION:

WATER TEMP. °C 23°C

DISCHARGE Variable gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 36°C

DEPTH ?

ODOR No

BORE 9"

FLUID COLOR Clear

PUMP TYPE Sub-pump

FLUID TASTE Good

STATIC HEAD —

BUBBLING —

SCALING No

BOILING —

TYPE OF PIPING —

VEGETATION —

ARTESIAN HEAD —

FLUID ISSUES FROM Pipe connected to sub-pump

ROCK DATA:

TYPE (SURFACE) Alluvium

COLOR _____

SALT: None
TYPE _____

GRAIN SIZE _____
MEGASCOPIC _____
MINERALS _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION No

SINTER: None
TYPE _____

RX TYPE (AT DEPTH) Tuffs

QUANTITY _____

WATER USED FOR IMMEDIATE AREA Cattle
USED FOR _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION —

PROPERTY OWNED BY Rancher (Corralitos?)

PREVIOUS AND/OR CURRENT LEASES —



Photo KG1-17

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14075 Date 7/24/80 Time 3:00 pm

Name W. Burris Well Location: Co. ^{Dona Ana} _____ State N.M.

Sec. 19 Twp. 22S R. 4W ; 342 km/mi _____ OF _____

Lat. 32°22.5' Long. 107°17.5' Elevation 4613 Quad. Good Sight Peak N.E

Sampler WA + KG

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

DESCRIPTION:

WATER TEMP. °C 24°C

DISCHARGE Variable gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 37°C

DEPTH ?

ODOR No

BORE 6"

FLUID COLOR Clear

PUMP TYPE Jack-pump

FLUID TASTE Good

STATIC HEAD -

BUBBLING No

SCALING Minor on outlet

BOILING No

TYPE OF PIPING -

VEGETATION Yes

ARTESIAN HEAD -

FLUID ISSUES FROM pipe Fed by

ROCK DATA:

jack pump.

TYPE (SURFACE) Alluvium containing

COLOR blocks of volcanics

SALT: None

GRAIN SIZE ranging from

TYPE _____

MEGASCOPIC MINERALS basalt to tuff.

QUANTITY _____

COLOR _____

FORM _____

ALTERATION No

SINTER: None

RX TYPE (AT DEPTH) Basalt? Tufts?

TYPE _____

WATER USED FOR IMMEDIATE AREA Cattle, Farm +

QUANTITY _____

USED FOR Home

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY Johnson

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14076 Date 06/18/00 Time 12:10 PM

Name Fourth of July Spring Location: Co. Torrance State N.M.

Sec. 35 Twp. 7N R. 5E ; km/mi _____ OF _____

Lat. 34°47'30" Long. 106°22'29" Elevation 7640' Quad. Bosque Peak 7'

Sampler WA

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

DESCRIPTION:

WATER TEMP. °C 9°C

DISCHARGE 100-125 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 22°C

DEPTH _____

ODOR None

BORE _____

FLUID COLOR Clear

PUMP TYPE _____

FLUID TASTE Excellent!

STATIC HEAD _____

BUBBLING None

SCALING _____

BOILING No

TYPE OF PIPING _____

VEGETATION Yes (Forest)

ARTESIAN HEAD _____

FLUID ISSUES FROM Pipe + Cement

ROCK DATA:

block, Issues from

TYPE (SURFACE) Limestone (blocks in stream)

ground. No o/c visible

COLOR lt. grey

SALT: NONE

GRAIN SIZE _____

TYPE _____

MEGASCOPIC MINERALS _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION None

SINTER: NONE

RX TYPE (AT DEPTH) _____

TYPE _____

WATER USED FOR IMMEDIATE AREA

QUANTITY _____

USED FOR recreation

COLOR _____

(drinking)

FORM _____

QUALITY OF SAMPLE: EXC. GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Meteoric? Mtns nearby

PROPERTY OWNED BY National Forest

PREVIOUS AND/OR CURRENT LEASES _____

Picture ^{WA} 1, 1

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14077 Date 4/17/80 Time 3:00 PM

Name White Rock Spring Location: Co. Torrance State N.M.

Sec. 16 Twp. T7N R. R5E ; _____ km/mi _____ OF _____

Lat. 34° 50' 5" Long. 106° 26' Elevation 6640 Quad. Bosque Peak

Sampler WA

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

DESCRIPTION:

WATER TEMP. °C 22.5°C DISCHARGE 5 gpm/Lpm

GROUND TEMP. °C 30.5°C WELL DATA:

AIR TEMP. _____ DEPTH _____

ODOR None BORE _____

FLUID COLOR Clear PUMP TYPE _____

FLUID TASTE None STATIC HEAD _____

BUBBLING No SCALING _____

BOILING No TYPE OF PIPING _____

VEGETATION Yes ARTESIAN HEAD _____

FLUID ISSUES FROM Fractures in granite pluton

ROCK DATA: TYPE (SURFACE) Granite

COLOR lt grey

GRAIN SIZE 2-4 mm

MEGASCOPIC MINERALS quartz, K-feld, plagioclase, hornblende.

SALT: Calcium carbonate
TYPE White crust

QUANTITY Minor

COLOR white

FORM Crust

ALTERATION None

SINTER: None

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 Fault related fractures (?)

PROPERTY OWNED BY Isleta Indian Reservation

PREVIOUS AND/OR CURRENT LEASES _____



Send analysis to:

Mountain Air Forest Service Photo ^{WA} 1, 2
District.

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14078 Date 6/21/80 Time 1:00 PM

Name Red Canyon Spring Location: Co. Torreón State N.M.

Sec. Unsurveyed Twp. 5N R. 5E ; _____ km/mi _____ OF _____

Lat. 34° 37' Long. 106° 25' Elevation 7960' Quad. Torreón Quad

Sampler WA + AS

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

DESCRIPTION:

WATER TEMP. °C 9°C

DISCHARGE 20-25 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH _____

ODOR None

BORE _____

FLUID COLOR Clear

PUMP TYPE _____

FLUID TASTE Good (None)

STATIC HEAD _____

BUBBLING No

SCALING _____

BOILING No

TYPE OF PIPING _____

VEGETATION Yes

ARTESIAN HEAD _____

FLUID ISSUES FROM joints + fractures

ROCK DATA:

in limestone below

TYPE (SURFACE) Limestone

alluvium

COLOR lt. Grey

SALT: None

GRAIN SIZE _____

TYPE _____

MEGASCOPIC MINERALS _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION None

SINTER: None

RX TYPE (AT DEPTH) Limestone(?)

TYPE _____

WATER USED FOR _____

QUANTITY _____

IMMEDIATE AREA USED FOR _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC. GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Fault controlled? Unclear.

PROPERTY OWNED BY Forest Service

PREVIOUS AND/OR CURRENT LEASES _____



Too dark out
for photo

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14079 Date 6/26/80 Time 8:45 PM
Name Bonnie Spring Location: Co. Lincoln State N.M.
Sec. 34 Twp. T8S R. R13E; 4433 km/mi _____ OF _____
Lat. 33° 33.9' Long. 105° 39.8' Elevation 6880' Quad. Nogal Quad
Sampler WA

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

DESCRIPTION:

WATER TEMP. °C	<u>15°C</u>	DISCHARGE	<u>3-4</u> gpm/Lpm
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>21.5°C</u>	DEPTH	_____
ODOR	<u>None</u>	BORE	_____
FLUID COLOR	<u>Clear</u>	PUMP TYPE	_____
FLUID TASTE	<u>Good</u>	STATIC HEAD	_____
BUBBLING	<u>No</u>	SCALING	_____
BOILING	<u>No</u>	TYPE OF PIPING	_____
VEGETATION	<u>Yes</u>	ARTESIAN HEAD	_____
FLUID ISSUES FROM	<u>Soil at the bottom of a gully</u>	ROCK DATA:	
		TYPE (SURFACE)	<u>Soil (alluvium)</u>
		COLOR	_____
SALT:	<u>None</u>	GRAIN SIZE	_____
TYPE	_____	MEGASCOPIC MINERALS	_____
QUANTITY	_____		
COLOR	_____		
FORM	_____	ALTERATION	<u>None</u>
SINTER:	<u>None</u>	RX TYPE (AT DEPTH)	<u>?(Basalt?)</u>
TYPE	_____	WATER USED FOR IMMEDIATE AREA	_____
QUANTITY	_____	USED FOR	<u>No use</u>
COLOR	_____		<u>except for cattle</u>
FORM	_____	QUALITY OF SAMPLE: EXC., GOOD, POOR	
PROBABLE CAUSE OF MANIFESTATION	<u>May be meteoric.</u>		
PROPERTY OWNED BY	<u>Private</u>		
PREVIOUS AND/OR CURRENT LEASES	<u>_____</u>		

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14080 Date 7/1/80 Time 11:00 AM
Name Alum Spring Location: Co. Socorro State N.M.
Sec. 6 Twp. T9S R. R7W ;2431 km/mi OF _____
Lat. 33° 33' 10" Long. 107° 35' 40" Elevation 6410' Quad. Montoya Quad
Sampler JL + WA

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 2 to less ^{seeps out} gpm/Lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. 21°C DEPTH _____
ODOR No BORE _____
FLUID COLOR Clear PUMP TYPE _____
FLUID TASTE Good STATIC HEAD _____
BUBBLING No SCALING _____
BOILING No TYPE OF PIPING _____
VEGETATION Yes ARTESIAN HEAD _____

FLUID ISSUES FROM Alluvium in stream channel. From fractures below alluvium?

ROCK DATA:
TYPE (SURFACE) Flow-banded rhyolite
COLOR Whitish to pink

SALT:
TYPE ? Not NaCl Fizzed slightly in HCl.
QUANTITY Minor
COLOR White
FORM Crust

GRAIN SIZE ≤ 2mm
MEGASCOPIC MINERALS feldspars, quartz

SINTER:
TYPE None
QUANTITY _____
COLOR _____
FORM _____

ALTERATION
RX TYPE (AT DEPTH) Flow-banded Rhyolites
WATER USED FOR IMMEDIATE AREA USED FOR None

PROBABLE CAUSE OF MANIFESTATION Unknown
PROPERTY OWNED BY BLM
PREVIOUS AND/OR CURRENT LEASES _____
QUALITY OF SAMPLE: EXC., GOOD, POOR



Photo WA 1-4

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14081 Date 7/1/80 Time _____

Name Toolbox Spring Location: Co. Soc. State N.M.

Sec. 4 Twp. 7S R. 6W ; 1142 km/mi _____ OF _____

Lat. _____ Long. _____ Elevation _____ Quad. _____

Sampler WA + JL

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

DESCRIPTION:

It was raining for a short time during the collection.

WATER TEMP. °C 20°C

DISCHARGE 1 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 20°C

DEPTH _____

ODOR No

BORE _____

FLUID COLOR Clear

PUMP TYPE _____

FLUID TASTE Good

STATIC HEAD _____

BUBBLING No

SCALING _____

BOILING No

TYPE OF PIPING _____

VEGETATION Yes

ARTESIAN HEAD _____

FLUID ISSUES FROM Soil and

ROCK DATA:

porous, cross-bedded (?)

TYPE (SURFACE) ash deposits

ash deposits, Small Faults

COLOR white to red

SALT: in the area

GRAIN SIZE < 1mm

TYPE None

MEGASCOPIC MINERALS _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION None visible

SINTER:

RX TYPE (AT DEPTH) Ash and welded Tuffs

TYPE None

WATER USED FOR IMMEDIATE AREA None

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Unknown

PROPERTY OWNED BY U.S. National Forest

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14082 Date 7/1/80 Time 5:00 pm
Name UNNAMED SPRING WEST OF OJO CALIENTE Location: Co. SOC State NM
Sec. 31 Twp. 8S R. 7W; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 6210 Quad. MONTONA BUTTE
Sampler WA + JL

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

DESCRIPTION:

WATER TEMP. °C 26.75°C DISCHARGE 100 gpm/Lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. 23.75°C DEPTH _____
ODOR NONE BORE _____
FLUID COLOR CLEAR PUMP TYPE _____
FLUID TASTE _____ STATIC HEAD _____
BUBBLING NO SCALING _____
BOILING NO TYPE OF PIPING _____
VEGETATION ALGAE & GRASSES ARTESIAN HEAD _____
FLUID ISSUES FROM ALLUVIAL GRAVEL ROCK DATA:
ON NORTH SIDE OF ALAMOSA CREEK TYPE (SURFACE) COBBLES OF INTERMEDIATE VOLC. PORPHYRY
COLOR PURPLE & BLuish GRAY
GRAIN SIZE 4 mm
MEGASCOPIC MINERALS QTZ, PLAGIOCLASE FELDSPAR
SALT: NONE ALTERATION NONE
TYPE _____ RX TYPE (AT DEPTH) JAME
QUANTITY _____ WATER USED FOR IMMEDIATE AREA NOTHING
COLOR _____ USED FOR GRAZING
FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION FAULTING OF VOLCANICS TO EAST

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



Walt's Spring

Photo WA-1-6

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14083 Date 7/2/80 Time 2:30 Pm

Name Walt's Spring Location: Co. Sierra State N.M.

Sec. 4 Unsurveyed Twp. 10S R. 7W ; _____ km/mi _____ OF _____

Lat. 33° 23.8' Long. 107° 32' 30" Elevation 6085 Quad. Jaralosa Mtn.

Sampler WA + BH

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

DESCRIPTION:

WATER TEMP. °C 20°C

DISCHARGE 2 gpm/Lpm

GROUND TEMP. °C —

WELL DATA:

AIR TEMP. 30°C

DEPTH _____

ODOR No

BORE _____

FLUID COLOR Clear

PUMP TYPE _____

FLUID TASTE No

STATIC HEAD _____

BUBBLING No

SCALING _____

BOILING No

TYPE OF PIPING _____

VEGETATION Moss, ^{tan, green} algae

ARTESIAN HEAD _____

FLUID ISSUES FROM Fractures in

ROCK DATA:

laharic breccia

TYPE (SURFACE) laharic breccia

COLOR Purplish grey

SALT: No

GRAIN SIZE _____

TYPE _____

MEGASCOPIC MINERALS _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION None visible

SINTER: No

RX TYPE (AT DEPTH) More of the same and

TYPE _____

other volcanic +

QUANTITY _____

WATER USED FOR IMMEDIATE AREA seeds.

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION unknown

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES _____



Warm Spring

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14084 Date 7/3/80 Time 10:30 AM

Name Warm Spring Location: Co. Sierra State N.M.

Sec. 35 Twp. 14S R. 7W ; 4323 km/mi _____ OF _____

Lat. 33°25' Long. 107°31.7' Elevation 5020 Quad. Bell mtn.

Sampler WA

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

DESCRIPTION:

WATER TEMP. °C 28°C

DISCHARGE 50 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 30°C

DEPTH _____

ODOR No

BORE _____

FLUID COLOR Clear

PUMP TYPE _____

FLUID TASTE _____

STATIC HEAD _____

BUBBLING No

SCALING _____

BOILING No

TYPE OF PIPING _____

VEGETATION Yes Grass trees

ARTESIAN HEAD _____

FLUID ISSUES FROM a small talus pile at base of cliff along side the stream

ROCK DATA:

TYPE (SURFACE) Limestone

COLOR Lt. Grey

SALT: None

GRAIN SIZE _____
MEGASCOPIC MINERALS _____

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION None visible.

SINTER: None

RX TYPE (AT DEPTH) Limestone

TYPE _____

WATER USED FOR IMMEDIATE AREA None
USED FOR _____

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Unknown

PROPERTY OWNED BY Ladder Ranch.

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14085 Date 7/3/80 Time 3:30 Pm
 Name Turkey Spring Location: Co. Sierra State N.M
 Sec. 18 Twp. 14 S R. 8W ; 4221 km/mi _____ OF _____
 Lat. 33° 5.2' Long. 107° 41.8' Elevation 6420' Quad. Apache Peak
 Sampler WA

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

DESCRIPTION:

WATER TEMP. °C	<u>15°C</u>	DISCHARGE	<u>4-3</u> <u>gpm/Lpm</u>
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>30.5°C</u>	DEPTH	_____
ODOR	<u>No</u>	BORE	_____
FLUID COLOR	<u>Clear</u>	PUMP TYPE	_____
FLUID TASTE	<u>Good</u>	STATIC HEAD	_____
BUBBLING	<u>No</u>	SCALING	_____
BOILING	<u>No</u>	TYPE OF PIPING	_____
VEGETATION	<u>Yes Algae</u>	ARTESIAN HEAD	_____
FLUID ISSUES FROM	<u>Pipe buried in</u>	ROCK DATA:	
	<u>alluvium containing abundant</u>	TYPE (SURFACE)	<u>Alluvium</u>
	<u>blocks and cobbles of siliceous</u>	COLOR	_____
	<u>volcanics.</u>	GRAIN SIZE	_____
SALT:	<u>None</u>	MEGASCOPIC	_____
TYPE	_____	MINERALS	_____
QUANTITY	_____		
COLOR	_____		
FORM	_____	ALTERATION	<u>None</u>
SINTER:	<u>None</u>	RX TYPE (AT DEPTH)	<u>Siliceous volcanic</u>
TYPE	_____	WATER USED FOR	_____
QUANTITY	_____	IMMEDIATE AREA	_____
COLOR	_____	USED FOR	_____
FORM	_____	QUALITY OF SAMPLE:	<u>EXC.</u> , GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Unknown

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14086 Date 7/15/80 Time 9:45 AM
Name — Location: Co. Sierra State N.M.
Sec. 27 Twp. 15S R. 5W ; 3443 km/mi _____ OF _____
Lat. 32° 58.2' Long. 107° 20.7' Elevation 4308 Quad. Cabello, N.M.
Sampler WA

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

DESCRIPTION:

WATER TEMP. °C 22.5°C DISCHARGE ? gpm/Lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. 29°C DEPTH ?
ODOR No BORE 6"
FLUID COLOR Clear PUMP TYPE None Free flowing
FLUID TASTE Good STATIC HEAD Yes Above ground level
BUBBLING No SCALING No
BOILING No TYPE OF PIPING _____
VEGETATION Yes Grass ARTESIAN HEAD Yes
FLUID ISSUES FROM Cased well. ROCK DATA:
Well is capped. H₂O sample from hose. TYPE (SURFACE) Alluvium
COLOR _____
GRAIN SIZE _____
SALT: TYPE None MEGASCOPIIC MINERALS _____
QUANTITY _____ Gravals and sands
COLOR _____
FORM _____ ALTERATION No
SINTER: TYPE None RX TYPE (AT DEPTH) Alluvium
QUANTITY _____ WATER USED FOR IMMEDIATE AREA USED FOR Cattle
COLOR _____
FORM _____ QUALITY OF SAMPLE: EXC. GOOD, POOR
PROBABLE CAUSE OF MANIFESTATION ?
PROPERTY OWNED BY ?
PREVIOUS AND/OR CURRENT LEASES ?

Photo WA 1 - #9

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14087 Date 7/15/80 Time 12:30 PM

Name Granite Spring Location: Co. Sierra State NM

Sec. 4 Twp. 16S R. 4W ; 1432 km/mi _____ OF _____

Lat. 32° 56.8' Long. 107° 15.3' Elevation 4918 Quad. Caballo

Sampler WA

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

DESCRIPTION:

(Solar?)

WATER TEMP. °C 32.5°C

DISCHARGE seep < 1 Lpm gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 37°C

DEPTH _____

ODOR No

BORE _____

FLUID COLOR Clear

PUMP TYPE _____

FLUID TASTE No

STATIC HEAD _____

BUBBLING No

SCALING _____

BOILING No

TYPE OF PIPING _____

VEGETATION Yes Algae grass

ARTESIAN HEAD _____

FLUID ISSUES FROM Fractures in

ROCK DATA:

Granite. Seeps out.

TYPE (SURFACE) Granite

COLOR pinkish

SALT: None

GRAIN SIZE 1-3 mm

TYPE _____

MEGASCOPIC MINERALS biotite, qtz,

QUANTITY _____

K-sper, hornblende

COLOR _____

Some parts look pegmatitic

FORM _____

ALTERATION None

SINTER: None

RX TYPE (AT DEPTH) Same

TYPE _____

WATER USED FOR IMMEDIATE AREA None

QUANTITY _____

USED FOR _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Unknown

PROPERTY OWNED BY _____ ?

PREVIOUS AND/OR CURRENT LEASES No



WA Photo 1 - 10

see Thermal Waters
p 57 (Derry Warm Springs)

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14088 Date 7/15/80 Time 2:00 PM

Name Highway Spring (Derry Warm Spring) Location: Co. _____ State _____

Sec. 29 Twp. 17S R. 4W ; 3442 km/mi _____ OF _____

Lat. 32° 47.8' Long. 107° 16.5' Elevation 4118 Quad. Garfield

Sampler WA

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

DESCRIPTION: shallow well which is probably fed by old spring.

WATER TEMP. °C 20.5°C

DISCHARGE ? gpm/Lpm

GROUND TEMP. °C _____

WELL DATA: Appears to seep through ground to form marsh.

AIR TEMP. 35.5°C

DEPTH _____

ODOR No

BORE _____

FLUID COLOR Only slightly cloudy

PUMP TYPE _____

FLUID TASTE Good (None)

STATIC HEAD _____

BUBBLING No

SCALING _____

BOILING No

TYPE OF PIPING _____

VEGETATION Yes. Forms Marsh

ARTESIAN HEAD _____

FLUID ISSUES FROM Soil at base

ROCK DATA: _____

of land fill for hwy.

TYPE (SURFACE) cherty limestone

Fault zone exposed in roadcut along highway above spring

COLOR lt. grey

SALT: None
TYPE _____

GRAIN SIZE
MEGASCOPIC
MINERALS _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION Non visible

SINTER: None

RX TYPE (AT DEPTH) Same then

TYPE _____

Granites?

QUANTITY _____

WATER USED FOR
IMMEDIATE AREA

COLOR _____

USED FOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Fault controlled seepage

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES No



Photo WA-1-11

McClede Spring.

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14089 Date 7/16/80 Time 10:00 AM

Name McClede Spring Location: Co. _____ State N.M.

Sec. 17 Twp. 17S R. 7W ; 1123 km/mi _____ OF _____

Lat. 32° 50' Long. 107° 35.2' Elevation 5395' Quad. Hillsboro N.M.

Sampler WA

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

DESCRIPTION:

WATER TEMP. °C 17.5°C

DISCHARGE 15-20 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 29.5°C

DEPTH _____

ODOR No

BORE _____

FLUID COLOR Clear

PUMP TYPE _____

FLUID TASTE Good

STATIC HEAD _____

BUBBLING No

SCALING _____

BOILING No

TYPE OF PIPING _____

VEGETATION Yes

ARTESIAN HEAD _____

FLUID ISSUES FROM _____

ROCK DATA:

TYPE (SURFACE) Platay basaltic andesite

COLOR med-dk grey

GRAIN SIZE ≤ 1mm

MEGASCOPIC MINERALS plagioclase,

oxidized olivine or

pyroxene.

ALTERATION None

RX TYPE (AT DEPTH) Same, perhaps crystal ash flows (curled)

WATER USED FOR IMMEDIATE AREA None
USED FOR _____

SALT: None

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

SINTER: None

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC. GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Meteoric stream waters surfacing

PROPERTY OWNED BY near road in creek.

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14090 Date 7/16/80 Time 12:30 PM

Name Wilson Ranch Spring Location: Co. Sierra State N.M.

Sec. 11 Twp. 18S R. 7W ; 3211 km/mi _____ OF _____

Lat. 32°45.5' Long. 107°32' Elevation 5075' Quad. Hillsboro

Sampler WA

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

DESCRIPTION:

WATER TEMP. °C 35.5°C

DISCHARGE ~ 70 (gpm)/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 38°C

DEPTH ?

ODOR No

BORE 1 foot

FLUID COLOR Clear

PUMP TYPE sub-pump

FLUID TASTE Good

STATIC HEAD ?

BUBBLING No

SCALING Minor near outlet

BOILING No

TYPE OF PIPING _____

VEGETATION Yes

ARTESIAN HEAD _____

FLUID ISSUES FROM Pipe fed by sub-pump.

ROCK DATA:

welded

TYPE (SURFACE) Crystal Tuff

COLOR lt. grey

GRAIN SIZE ≤ 1mm

MEGASCOPIC MINERALS Kspar, hornblende

quartz, plagi(?)

SALT: None

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION None

SINTER: None

RX TYPE (AT DEPTH) Same as on surface?

TYPE _____

WATER USED FOR IMMEDIATE AREA _____

QUANTITY _____

USED FOR _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION ?

PROPERTY OWNED BY Wilson Ranch

PREVIOUS AND/OR CURRENT LEASES _____



Photo WA1-13

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14091 Date 7/19/80 Time 12:30pm

Name Mc Ash Spring Location: Co. Sierra State N.M.

Sec. 35 Twp. 18S R. 8W ; 2312 km/mi - _____ OF _____

Lat. 34° 42.5' Long. 107° 38.5' Elevation 5530 Quad. Lake Valley

Sampler WA

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

DESCRIPTION:

WATER TEMP. °C 20.5°C

DISCHARGE 2 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 38°C

DEPTH _____

ODOR No

BORE _____

FLUID COLOR Clear

PUMP TYPE _____

FLUID TASTE No way!!!

STATIC HEAD _____

BUBBLING Yes ^{small} bubbles

SCALING _____

BOILING No

TYPE OF PIPING _____

VEGETATION Yes ^{grass} ^{weeds}

ARTESIAN HEAD _____

FLUID ISSUES FROM stream gravels.

ROCK DATA:

TYPE (SURFACE) porphyritic Pyroxene andesite

COLOR lt. - med gray

GRAIN SIZE phenos 1-5mm

MEGASCOPIC MINERALS pyroxene

plagioclase

SALT: No

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION No

SINTER: No

RX TYPE (AT DEPTH) Same as on surface?

TYPE _____

WATER USED FOR IMMEDIATE AREA Cattle

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR needs to be filtered

PROBABLE CAUSE OF MANIFESTATION Meteoric water surfacing in creek?

PROPERTY OWNED BY _____ ?

PREVIOUS AND/OR CURRENT LEASES _____ ?



Photo WA1-14

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14092 Date 7/20/80 Time 16:30

Name _____ Location: Co. huna State N.M

Sec. 10 Twp. 21S R. 7W ; 2212 km/mi _____ OF _____

Lat. 32° 30' Long. 107° 33' Elevation 4680 Quad. Lake Valley

Sampler WA + AS

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

DESCRIPTION:

WATER TEMP. °C 27°C

DISCHARGE Variable gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH ~ 110m

ODOR No

BORE 8"

FLUID COLOR Clear

PUMP TYPE Wind driven

FLUID TASTE Good

STATIC HEAD ?

BUBBLING -

SCALING Minor on outlet

BOILING -

TYPE OF PIPING ?

VEGETATION -

ARTESIAN HEAD ?

FLUID ISSUES FROM pumped up
by windmill, Issues
from pipe

ROCK DATA:

TYPE (SURFACE) Alluvium

COLOR _____

SALT: No

GRAIN SIZE _____

TYPE _____

MEGASCOPIC MINERALS _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION None

SINTER: No

RX TYPE (AT DEPTH) ?

TYPE _____

WATER USED FOR IMMEDIATE AREA Cattle

QUANTITY _____

USED FOR _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION ?

PROPERTY OWNED BY Nunn Ranch

PREVIOUS AND/OR CURRENT LEASES _____



Photo WA-1-15

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14093 Date 7/20/80 Time 3:00

Name Hot One Location: Co. Luna State Nm.

Sec. 6 Twp. 21S R. 7W ; 1111 km/mi _____ OF _____

Lat. 32° 31' Long. 107° 30' Elevation 4645 Quad. Lake Valley

Sampler WA + AS

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

DESCRIPTION:

WATER TEMP. °C 35°C DISCHARGE Variable gpm/Lpm

GROUND TEMP. °C _____ WELL DATA: sub-pump

AIR TEMP. Hot DEPTH ~ 85m

ODOR No BORE 6"

FLUID COLOR Clear PUMP TYPE sub-pum

FLUID TASTE Trood STATIC HEAD _____

BUBBLING _____ SCALING _____

BOILING _____ TYPE OF PIPING _____

VEGETATION _____ ARTESIAN HEAD _____

FLUID ISSUES FROM Well; pumped ROCK DATA:

up and out of TYPE (SURFACE) Alluvium

pipng COLOR _____

SALT: No GRAIN SIZE _____
TYPE _____ MEGASCOPIIC _____
MINERALS _____

QUANTITY _____

COLOR _____

FORM _____ ALTERATION No

SINTER: No RX TYPE (AT DEPTH) Volcanics.

TYPE _____ WATER USED FOR _____

QUANTITY _____ IMMEDIATE AREA _____

COLOR _____ USED FOR _____

FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION ?

PROPERTY OWNED BY Nun Ranch

PREVIOUS AND/OR CURRENT LEASES Leased.



Photo WA 1-16

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14094 Date 7/20/80 Time 2:00 Pm

Name _____ Location: Co. Sterria State N.M.

Sec. 31 Twp. 19S R. 6W ; 3221 km/mi _____ OF _____

Lat. 32°36.6' Long. 107°29.9' Elevation 4850 Quad. Nutt, N. Mex

Sampler WA + AS

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

DESCRIPTION:

WATER TEMP. °C 25°C

DISCHARGE Variable gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 39.5°C

DEPTH ?

ODOR No

BORE 6"

FLUID COLOR Clear

PUMP TYPE Jack-pump

FLUID TASTE Good

STATIC HEAD ?

BUBBLING -

SCALING No

BOILING -

TYPE OF PIPING -

VEGETATION -

ARTESIAN HEAD -

FLUID ISSUES FROM pipe attached to pumping well.

ROCK DATA:

TYPE (SURFACE) Alluvium.

COLOR _____

SALT:

No

TYPE _____

GRAIN SIZE MEGASCOPIIC MINERALS _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

No

RX TYPE (AT DEPTH) Volcanic?

TYPE _____

WATER USED FOR IMMEDIATE AREA USED FOR Cattle

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION -

PROPERTY OWNED BY private

PREVIOUS AND/OR CURRENT LEASES - None



Photo WA1-17

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14095 Date 7/21/80 Time 11:45 AM

Name Airport AT Location: Co. Sierra State N.M.

Sec. 26 Twp. 19S R. 5W; 2122 km/mi _____ OF _____

Lat. 32°38' Long. 107°19.2' Elevation 4500 Quad. Nutt Quad

Sampler WA

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

DESCRIPTION:

WATER TEMP. °C See AT book 26° DISCHARGE Variable gpm/Lpm

GROUND TEMP. °C Gradient measured WELL DATA:

AIR TEMP. 27°C DEPTH < 150 m

ODOR No BORE 16" near surface

FLUID COLOR Clear PUMP TYPE wind driven

FLUID TASTE Good STATIC HEAD -

BUBBLING No SCALING Minor near outlet

BOILING No TYPE OF PIPING _____

VEGETATION - ARTESIAN HEAD No

FLUID ISSUES FROM Well. ROCK DATA:

TYPE (SURFACE) Alluvium

COLOR _____

SALT: No GRAIN SIZE _____

TYPE _____ MEGASCOPIC MINERALS _____

QUANTITY _____

COLOR _____

FORM _____ ALTERATION _____

SINTER: No RX TYPE (AT DEPTH) Poorly indurated alluv. sediments

TYPE _____

QUANTITY _____ WATER USED FOR IMMEDIATE AREA USED FOR Cattle

COLOR _____

FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION -

PROPERTY OWNED BY Private

PREVIOUS AND/OR CURRENT LEASES -



Photo WA1-18

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14096 Date 7/21/80 Time 2:45 PM

Name _____ Location: Co. Luna State N.M.

Sec. 24 Twp. 20S R. 5W ; 3133 km/mi _____ OF _____

Lat. 32° 33' Long. 107° 24' Elevation 4530 Quad. Nutt Quad

Sampler WA

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

DESCRIPTION:

WATER TEMP. °C 25°C

DISCHARGE 100 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 35°C

DEPTH ? (150m ? see map)

ODOR No

BORE 21'

FLUID COLOR Clear

PUMP TYPE Sub-pump (electric)

FLUID TASTE Good

STATIC HEAD ?

BUBBLING — No

SCALING minor

BOILING — No

TYPE OF PIPING —

VEGETATION Yes

ARTESIAN HEAD —

FLUID ISSUES FROM Sub-pump.

ROCK DATA:

TYPE (SURFACE) Alluvium

COLOR _____

SALT: None

GRAIN SIZE _____

TYPE _____

MEGASCOPIC MINERALS _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION None

SINTER: None

RX TYPE (AT DEPTH) intermediate volcanics

TYPE _____

WATER USED FOR IMMEDIATE AREA irrigation of

QUANTITY _____

USED FOR crops

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION —

PROPERTY OWNED BY BLM

PREVIOUS AND/OR CURRENT LEASES —



Photo WA 1-9

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14097 Date 7/22/80 Time 12:00 PM

Name — Location: Co. Luna State N.M.

Sec. 18 Twp. 20 S R. 4 W ; 324 km/mi _____ OF _____

Lat. 32° 33.7' Long. 107° 17.5' Elevation 4575 Quad. Nutt Quad

Sampler WA

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

DESCRIPTION:

WATER TEMP. °C 33°C

DISCHARGE 100 ^{Variable} gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 32°C

DEPTH ? 500m? see map.

ODOR No

BORE 1' ?

FLUID COLOR Clear

PUMP TYPE Electric irrigation pump

FLUID TASTE Good

STATIC HEAD —

BUBBLING No

SCALING Minor

BOILING No

TYPE OF PIPING —

VEGETATION Yes

ARTESIAN HEAD —

FLUID ISSUES FROM pipe fed by pump.

ROCK DATA:

TYPE (SURFACE) Alluvium

COLOR —

GRAIN SIZE MEGASCOPIC MINERALS —

SALT: None
TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION None visible

SINTER: None

RX TYPE (AT DEPTH) Basalt?

TYPE _____

WATER USED FOR IMMEDIATE AREA USED FOR irrigation of crops

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION —

PROPERTY OWNED BY Private

PREVIOUS AND/OR CURRENT LEASES —



Photo WA1-20

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14098 Date 7/22/80 Time 2:00PM

Name Middle Place Windmills Location: Co. Luna State N.M.

Sec. 30 Twp. 21S R. 6W ; 3133 km/mi _____ OF _____

Lat. 32° 27.5' Long. 107° 29.6' Elevation 4370 Quad. Good Sight Peak

Sampler WA

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

DESCRIPTION:

WATER TEMP. °C 21°C

DISCHARGE Variable gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 35°C

DEPTH ?

ODOR No

BORE ~ 6"

FLUID COLOR Clear

PUMP TYPE sub-pump

FLUID TASTE Good

STATIC HEAD —

BUBBLING No

SCALING none visible

BOILING No

TYPE OF PIPING —

VEGETATION Yes

ARTESIAN HEAD —

FLUID ISSUES FROM pipe connected to sub-pump

ROCK DATA:

TYPE (SURFACE) Alluvium containing

COLOR numerous black

GRAIN SIZE and pebbles of

MEGASCOPIC MINERALS andesite and

tuffs.

SALT: None

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION No

SINTER: None

RX TYPE (AT DEPTH) Basalt?

TYPE _____

WATER USED FOR IMMEDIATE AREA Cattle

QUANTITY _____

USED FOR _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION —

PROPERTY OWNED BY Nun Ranch (?)

PREVIOUS AND/OR CURRENT LEASES —



Photo WA 2-1

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14099 Date 7/25/80 Time 2:00 PM

Name Aden Station Well Location: Co. Dona Ana State N.M.

Sec. -2 Twp. 25S R. 3W ; 214 km/mi _____ OF _____

Lat. 32° 10' Long. 107° 7' Elevation 4480 Quad. Aden

Sampler WA

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

DESCRIPTION:

WATER TEMP. °C 25.5°C

DISCHARGE Variable gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 38.5°C

DEPTH 150m

ODOR No

BORE 8"

FLUID COLOR Clear

PUMP TYPE sub-pump

FLUID TASTE _____

STATIC HEAD -

BUBBLING No

SCALING Minor

BOILING No

TYPE OF PIPING -

VEGETATION -

ARTESIAN HEAD -

FLUID ISSUES FROM well pumped by sub-pump

ROCK DATA: porphyrite + andesites

TYPE (SURFACE) Basalt andesites

COLOR lt to med. grey

GRAIN SIZE ≤ 3mm
MEGASCOPIC MINERALS _____

SALT: None
TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION None visible

SINTER: None
TYPE _____

RX TYPE (AT DEPTH) Basalt then alluvium?

QUANTITY _____

COLOR _____

FORM _____

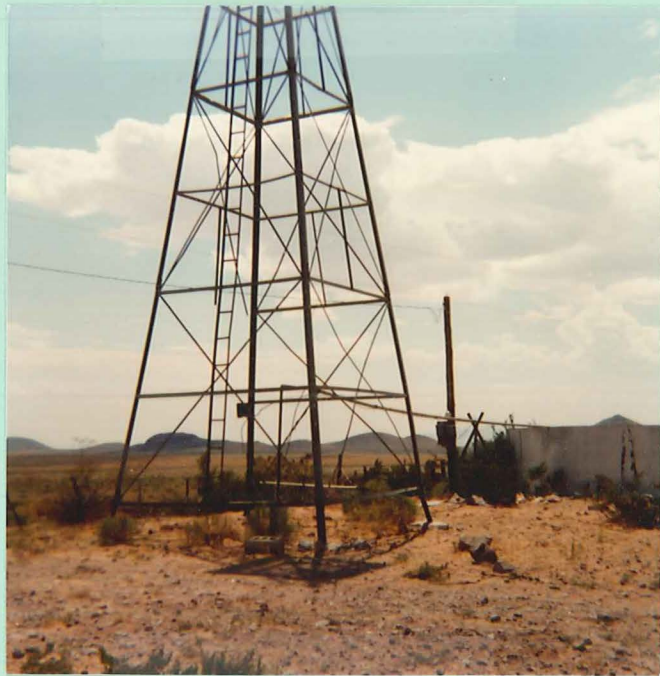
WATER USED FOR IMMEDIATE AREA Cattle
USED FOR _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION -

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



SIEN KNOWITON BH 2 #3
ADOBE RANCH

MAGDALENA
N MEX

SEND RESULTS
PLEASE

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14000 Date 6/30/80 Time 5pm

Name ADOBE RANCH SPRING Location: Co. Catron State N MEX

Sec. 5 Twp. 9 S R. 10 W ; _____ km/mi _____ OF _____

Lat. 33° 38' Long. 107° 52' Elevation 6800 Quad. GILA NATIONAL FOREST
UNSURVEYED

Sampler Hunter

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

DESCRIPTION:

WATER TEMP. °C 15°

DISCHARGE 30 Lpm gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH _____

ODOR None

BORE _____

FLUID COLOR None

PUMP TYPE _____

FLUID TASTE None

STATIC HEAD _____

BUBBLING no

SCALING _____

BOILING no

TYPE OF PIPING _____

VEGETATION Absent

ARTESIAN HEAD _____

FLUID ISSUES FROM 8 holes in spring
shold

ROCK DATA:

TYPE (SURFACE) ALV

COLOR _____

SALT:

GRAIN SIZE _____
MEGASCOPIC MINERALS _____

TYPE No

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) Unknown

TYPE No

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 _____



BH 2 #6

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14101 Date 7/2/80 Time 12:30 PM

Name Hickland Spring Location: Co. SIERRA State N MEX

Sec. 10 Twp. 13S R. 9W ; SE-SW km/mi _____ OF _____

Lat. 33° 11" Long. 107° 45' Elevation 6580 Quad. REEDS PEAK 7.5

Sampler HUNTSMAN

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

DESCRIPTION:

WATER TEMP. °C 17°C

DISCHARGE 1 Lpm gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 30

DEPTH _____

ODOR NONE

BORE _____

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE GOOD

STATIC HEAD _____

BUBBLING NO

SCALING _____

BOILING NO

TYPE OF PIPING _____

VEGETATION YES

ARTESIAN HEAD _____

FLUID ISSUES FROM Fractures in Granite

ROCK DATA:

TYPE (SURFACE) Granite

COLOR lt Pink

SALT:

GRAIN SIZE _____
MEGASCOPIC _____
MINERALS _____

TYPE NONE

QUANTITY _____

COLOR _____

FORM _____

ALTERATION NO

SINTER:

RX TYPE (AT DEPTH) Granite

TYPE NONE

WATER USED FOR IMMEDIATE AREA Tanks
USED FOR maybe cattle

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



SEND INFO TO
CECIL MUNEY
Box 95
WINSTON New Mexico

BH 2#7

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14102 Date 7/3/ Time 2 Pm

Name FLAG SPRINGS Location: Co. Sierra State N MEX

Sec. 25 Twp. 13S R. 9W ; km/mi _____ OF _____

Lat. 33° 09' Long. 107° 43' Elevation 5300 Quad. SUGARLOAF PEAK 7.5

Sampler HUUTSMAN

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

DESCRIPTION:

WATER TEMP. °C Solar -27

DISCHARGE Seeps gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH _____

ODOR none

BORE _____

FLUID COLOR none

PUMP TYPE _____

FLUID TASTE none

STATIC HEAD _____

BUBBLING no

SCALING _____

BOILING no

TYPE OF PIPING _____

VEGETATION minor moss

ARTESIAN HEAD _____

FLUID ISSUES FROM seeps in volcanic

ROCK DATA:

mud stone

TYPE (SURFACE) Volcanic Mud stone

COLOR Maroon

SALT:

TYPE none

GRAIN SIZE
MEGASCOPIC
MINERALS _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION no

SINTER:

RX TYPE (AT DEPTH) SAME

TYPE Washed water no pipe and

WATER USED FOR
IMMEDIATE AREA
USED FOR _____

QUANTITY from flow - possible tufa

COLOR _____

FORM _____

QUALITY OF SAMPLE: FAIR, GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



BH 2-8

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14103 Date 7/15 Time 10²⁰ AM

Name Vernon Windmill Location: Co. SIERRA State NMEX

Sec. 7 Twp. 16S R. 7W : NE NE 1/4 OF _____

Lat. 32° 56' Long. 107° 35' Elevation 5400 Quad. HILLSBORO-15min

Sampler Huntsman

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

DESCRIPTION:

WATER TEMP. °C 17.8° C at 20m

DISCHARGE WINDMILL gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH 20m

ODOR NONE

BORE 4"

FLUID COLOR NONE

PUMP TYPE Windmill

FLUID TASTE OK

STATIC HEAD _____

BUBBLING /

SCALING Minor

BOILING /

TYPE OF PIPING /

VEGETATION _____

ARTESIAN HEAD /

FLUID ISSUES FROM WINDMILL

ROCK DATA:

TYPE (SURFACE) STREAM channel of Volcanics

COLOR _____

SALT:

GRAIN SIZE
MEGASCOPIC
MINERALS _____

TYPE CaCO₃

QUANTITY Minor on Pipe

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 _____



BH 2-9

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14104 Date 7/15 Time 12⁰¹pm
Name Cement Pool springs Location: Co. Sierra State N.MEX
Sec. 5 Twp. 16 R. 7w ; km/mi _____ OF _____
Lat. 32° 57' Long. 107 34 Elevation 5500 Quad. Hillsboro 15m
Sampler HUNTSMAN

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

DESCRIPTION:

WATER TEMP. °C 33°C possible solar
GROUND TEMP. °C _____
AIR TEMP. _____
ODOR _____
FLUID COLOR Clear
FLUID TASTE sl CaCO₃
BUBBLING Yes - off gas
BOILING no
VEGETATION YES

FLUID ISSUES FROM holes in bottom
of cement pool

SALT:
TYPE No
QUANTITY _____
COLOR _____
FORM _____

SINTER:
TYPE _____
QUANTITY _____
COLOR _____
FORM _____

DISCHARGE 10 gpm - was total temp if flow gpm/Lpm
used to be much greater

WELL DATA:
DEPTH _____
BORE _____
PUMP TYPE _____
STATIC HEAD _____
SCALING _____
TYPE OF PIPING _____
ARTESIAN HEAD _____

ROCK DATA:
TYPE (SURFACE) clv
COLOR pink
GRAIN SIZE _____
MEGASCOPIC MINERALS _____

ALTERATION no
RX TYPE (AT DEPTH) Volcanics
WATER USED FOR IMMEDIATE AREA Cattle
USED FOR Path - old mines

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION unknown
PROPERTY OWNED BY Vernon Cunningham - P Box 476 - Hillsboro - N.Mex.
PREVIOUS AND/OR CURRENT LEASES _____



BH 2 - #10

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14005 Date 7/15 Time 2pm

Name Mud Springs Location: Co. STEVEN State NWMEV

Sec. 5 NW SW Twp. 16 S R. 8 W ; _____ km/mi _____ OF _____

Lat. 32 56 Long. 107° 43' Elevation 6400 Quad. Hillsboro 15min

Sampler Huntsman

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

DESCRIPTION:

WATER TEMP. °C 18

DISCHARGE 20 Lpm gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH _____

ODOR None

BORE _____

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE GOOD

STATIC HEAD _____

BUBBLING No

SCALING _____

BOILING No

TYPE OF PIPING _____

VEGETATION YES

ARTESIAN HEAD _____

FLUID ISSUES FROM SEEPS - scaled and piped to pond

ROCK DATA:

TYPE (SURFACE) Granite

COLOR _____

SALT:

GRAIN SIZE MEGASCOPIC MINERALS _____

TYPE NONE

QUANTITY _____

COLOR _____

FORM _____

ALTERATION No

SINTER:

RX TYPE (AT DEPTH) Granite

TYPE _____

WATER USED FOR IMMEDIATE AREA USED FOR REC. P Forest Service-REC

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Fractures

PROPERTY OWNED BY Forest Service

PREVIOUS AND/OR CURRENT LEASES _____



BH 2-11

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14106 Date 7/15/80 Time 3:50 pm

Name SOUTHWEST Spring Location: Co. Sierra State N Mex

Sec. 24 NWSW Twp. 16S R. 9W ; km/mi Sierra OF _____

Lat. 32° 53' Long. 107° 44' Elevation 6905 Quad. Hillsboro 15min

Sampler Huntsman

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

DESCRIPTION:

WATER TEMP. °C 15°C

DISCHARGE 8-10 Lpm gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH _____

ODOR NONE

BORE _____

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE GOOD No Taste

STATIC HEAD _____

BUBBLING No

SCALING _____

BOILING No

TYPE OF PIPING _____

VEGETATION Green Moss

ARTESIAN HEAD _____

FLUID ISSUES FROM Pipe cemented in

ROCK DATA:

fracture

TYPE (SURFACE) Granite

COLOR _____

SALT:

GRAIN SIZE _____
MEGASCOPIC MINERALS _____

TYPE CaCO₃

QUANTITY minor to mod

COLOR white

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) Granite possible

TYPE _____

WATER USED FOR IMMEDIATE AREA USED FOR _____

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION fracture in granite

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



BH 2-12

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14107 Date 7/15/80 Time 5pm
Name KINGSTON Springs Location: Co. Sierra State N MEX
Sec. 18 Twp. 16 S R. 8 W ; _____ km/mi _____ OF _____
Lat. 32 55 Long. 107 43 Elevation 6244 Quad. Hillsboro
Sampler Huntsman

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

DESCRIPTION:

WATER TEMP. °C 20° DISCHARGE 4-5 Lpm gpm/Lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. _____ DEPTH _____
ODOR No BORE _____
FLUID COLOR CLEAR - SI RUST color PUMP TYPE _____
FLUID TASTE OK- STATIC HEAD _____
BUBBLING _____ SCALING _____
BOILING _____ TYPE OF PIPING _____
VEGETATION _____ ARTESIAN HEAD _____

FLUID ISSUES FROM Pipe into Hillside
CLAY PIPE

ROCK DATA:
TYPE (SURFACE) Dirt
COLOR _____
GRAIN SIZE _____
MEGASCOPIC MINERALS _____

SALT:

TYPE No Minor Rust
QUANTITY _____
COLOR _____
FORM _____

SINTER:

TYPE _____
QUANTITY _____
COLOR _____
FORM _____

RX TYPE (AT DEPTH) Granite Rhynchite
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 _____



BA 2-12

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14108 Date 7/22/80 Time 3:30 PM

Name MINE HOUSE Spring Location: Co. Apache State N MEX

Sec. 26 Twp. 22S R. 3E ; km/mi _____ OF _____

Lat. 32° 22' Long. 106° 36' Elevation 5350 Quad. ORGAN PK 7.5

Sampler Hunter well dug 4m in Granite

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

DESCRIPTION:

WATER TEMP. °C 19°

DISCHARGE SEEP gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 35+

DEPTH _____

ODOR Wk Sulphur

BORE _____

FLUID COLOR muddy

PUMP TYPE _____

FLUID TASTE no taste test

STATIC HEAD _____

BUBBLING no

SCALING _____

BOILING no

TYPE OF PIPING _____

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM well-hand dug

ROCK DATA:

TYPE (SURFACE) Granite

COLOR /

GRAIN SIZE
MEGASCOPIC
MINERALS /

SALT:

TYPE None

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) Granite

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 _____

Look at picture of
Kingston springs -

Canada

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. 14 Sample No. 14109 Date 7/24/80 Time 2:30pm

Name Bishop Windmill Location: Co Dom Ara State N.MEX

Sec. 1 Twp. 25S R. 3E ; km/mi _____ OF _____

Lat. 32° 09' Long. 106° 36' Elevation 4211 Quad. Bishop 7.5

Sampler Huntsman

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

DESCRIPTION:

WATER TEMP. °C 24°C

DISCHARGE Windmill gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH _____

ODOR None

BORE _____

FLUID COLOR lk' Muddy Lt

PUMP TYPE _____

FLUID TASTE None

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING _____

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM _____

ROCK DATA:

TYPE (SURFACE) AK FAN

COLOR _____

SALT:

GRAIN SIZE _____

TYPE _____

MEGASCOPIC _____

QUANTITY _____

MINERALS _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) AK FAN

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 _____

BH-212

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14110 Date 7/28/80 Time 12:30 PM
Name Border Warm Well Location: Co. Luna State N.M.
Sec. SW/NW 17 Twp. 29S R. 8W ; 1/2 km/ini north OF border
Lat. 31° 47' Long. 107° 41' Elevation 4130' Quad. Columbus N.M.
Sampler Huntsman

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

DESCRIPTION:

WATER TEMP. °C 30°C DISCHARGE 200 (gpm)/Lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. 32°C DEPTH ?
ODOR none BORE _____
FLUID COLOR clear PUMP TYPE _____
FLUID TASTE good STATIC HEAD _____
BUBBLING no SCALING _____
BOILING no TYPE OF PIPING _____
VEGETATION grasses ARTESIAN HEAD _____
FLUID ISSUES FROM irrigation well ROCK DATA:
TYPE (SURFACE) Qal
COLOR reddish
GRAIN SIZE med. gravel - sand
MEGASCOPIIC MINERALS _____
SALT: TYPE CaCO3
QUANTITY minor
COLOR _____
FORM _____ ALTERATION no
SINTER: RX TYPE (AT DEPTH) ? Basalt to south
TYPE _____ WATER USED FOR IMMEDIATE AREA irrigation
QUANTITY NO USED FOR same
COLOR _____
FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR
PROBABLE CAUSE OF MANIFESTATION aquifer
PROPERTY OWNED BY ?
PREVIOUS AND/OR CURRENT LEASES ?

BH-2-13

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14111 Date 7/26/80 Time 4:15 pm

Name DEAN' WELL Location: Co. LUNA State N.M.

Sec. 26 Twp. 28S R. 7W ; NE/SE km/mi _____ OF _____

Lat. 31° 50' Long. 107.31 Elevation 4000 Quad. Columbus SE

Sampler SHEEKER

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

DESCRIPTION:

WATER TEMP. °C 30°

DISCHARGE _____ gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 38°

DEPTH _____

ODOR NONE

BORE _____

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE SWEET

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING _____

VEGETATION About

ARTESIAN HEAD _____

FLUID ISSUES FROM Windmill

ROCK DATA:

TYPE (SURFACE) AN - And - Rhy

COLOR _____

SALT:

GRAIN SIZE _____
MEGASCOPIIC
MINERALS _____

TYPE CaCO3

QUANTITY minor of pipe

COLOR white

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) AN

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 _____



BH 2-14

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14112 Date 7 29 80 Time 2pm

Name BYER SPRING Location: Co. WY State N MEX

Sec. 31 Twp. 255 R. 7W ; _____ km/mi _____ OF _____

Lat. 32° 05' Long 107° 36' Elevation 5200 Quad. GYM BEAK

Sampler Huntsman

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

DESCRIPTION:

WATER TEMP. °C 22°C

DISCHARGE 1/2 Lpm gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 36

DEPTH _____

ODOR NONE

BORE _____

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE Slightly bicarb

STATIC HEAD _____

BUBBLING no

SCALING _____

BOILING no

TYPE OF PIPING _____

VEGETATION abundant

ARTESIAN HEAD _____

FLUID ISSUES FROM fractures rhodalic RX
has been cemented and piped in
plastic pipe to troughs

ROCK DATA:

TYPE (SURFACE) Rhy

COLOR _____

SALT:

GRAIN SIZE _____
MEGASCOPIC _____
MINERALS _____

TYPE CaCO3

QUANTITY minor

COLOR white

FORM _____

ALTERATION no

SINTER:

RX TYPE (AT DEPTH) Rhy

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 _____



2-15

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14113 Date 7/30/80 Time 11AM

Name Midway BUTTEWELL Location: Co. LUNA State N.MEX

Sec. 34 Twp. 26S R. 10W NW NW NE km/mi _____ OF _____

Lat. 32° 00' Long. 107° 51' Elevation 4195 Quad. Midway BUTTE

Sampler SHENKSK

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

DESCRIPTION:

WATER TEMP. °C 19.66

DISCHARGE Windmill gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH _____

ODOR NONE

BORE _____

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE NO

STATIC HEAD _____

BUBBLING NO

SCALING _____

BOILING NO

TYPE OF PIPING _____

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM windmill in

ROCK DATA:

large red fan area no to

TYPE (SURFACE) _____

Basalt plug

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 _____



BH 2-16

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14114 Date 7/30/80 Time 12.30 Pm

Name CAN SHIT WELL Location: Co. LUNA State NMEX

Sec. 19 Twp. 26S R. 9W ; _____ km/mi _____ OF _____

Lat. 32° 02' Long 107° 47' Elevation 4185 Quad. MIDWAY BUTTE 7.5

Sampler SHAENKER

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

DESCRIPTION:

WATER TEMP. °C 20°C

DISCHARGE _____ gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH _____

ODOR None

BORE _____

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE No

STATIC HEAD _____

BUBBLING No

SCALING _____

BOILING No

TYPE OF PIPING _____

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM Windmill

ROCK DATA:

TYPE (SURFACE) Alw - SS small gravels

COLOR _____

SALT:

GRAIN SIZE
MEGASCOPIC
MINERALS _____

TYPE CaCO₃

QUANTITY Minor

COLOR white

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) Alw

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 _____



BH2 #17 & 18

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14115 Date 7/30/80 Time 1PM

Name Coldwell Location: Co. LUNA State NMEX

Sec. 35 Twp. 25S R. 9W ; NW/NE km/mi _____ OF _____

Lat. 32° 05' Long. 107° 44' Elevation 4214 Quad. SOUTH PEAK 7.5

Sampler SHENKER

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

DESCRIPTION:

WATER TEMP. °C 18°C DISCHARGE 400 GPM gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. _____ DEPTH _____

ODOR NONE BORE _____

FLUID COLOR CLEAR PUMP TYPE _____

FLUID TASTE GOOD STATIC HEAD _____

BUBBLING / SCALING _____

BOILING / TYPE OF PIPING _____

VEGETATION YES ABUND ARTESIAN HEAD _____

FLUID ISSUES FROM _____ ROCK DATA:

TYPE (SURFACE) AIV

COLOR _____

SALT: GRAIN SIZE _____

TYPE No MEGASCOPIC MINERALS _____

QUANTITY _____

COLOR _____

FORM _____ ALTERATION _____

SINTER: RX TYPE (AT DEPTH) AIV

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 _____



BH-2 #19

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14116 Date 7-30-80 Time 2:30

Name Hike CW Location: Co. Luna State NM

Sec. SW/SE/NW 28 Twp. 24S R. 8W ; _____ km/mi _____ OF _____

Lat. 32° 11' Long 107° 41' Elevation 4247 Quad. Capitol Dome 7.5'

Sampler Shenker & Huntsman

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

DESCRIPTION:

WATER TEMP. °C 25°C solar

DISCHARGE variable gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 37°C

DEPTH ~25m?

ODOR none

BORE 12"

FLUID COLOR clear

PUMP TYPE w-mill

FLUID TASTE good

STATIC HEAD 25m?

BUBBLING no

SCALING on outlet pipe

BOILING no

TYPE OF PIPING steel

VEGETATION no

ARTESIAN HEAD ?

FLUID ISSUES FROM outlet pipe from

ROCK DATA:

windmill - 12" casing.

TYPE (SURFACE) Qal - fan

H₂O @ ~25m

COLOR from Florida Mtns

SALT:

TYPE CaCO₃

GRAIN SIZE
MEGASCOPIC
MINERALS _____

QUANTITY med.

COLOR white

FORM crust on pipe

ALTERATION NO

SINTER:

RX TYPE (AT DEPTH) Qal

TYPE _____

WATER USED FOR IMMEDIATE AREA cattle

QUANTITY NO

USED FOR ||

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION on fault trace from Midway Butte

PROPERTY OWNED BY to west side of Florida's.

PREVIOUS AND/OR CURRENT LEASES none for G.T.



BH₂ #20

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14117 Date 7/30/80 Time 3:15

Name Florida Gap CW Location: Co. Luna State NM

Sec. SE 6 Twp. 25S R. 7W ; _____ km/mi _____ OF _____

Lat. 32° 09' Long. 107 35 Elevation 4520 ft. Quad. Florida Gap 7.5'

Sampler Shenker & Huntsman

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

DESCRIPTION:

WATER TEMP. °C 22°C maybe not flowed enough DISCHARGE variable gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 38°C

DEPTH ?

ODOR at none

BORE 8"

FLUID COLOR clear

PUMP TYPE mill

FLUID TASTE good

STATIC HEAD ?

BUBBLING no

SCALING CaCO₃

BOILING no

TYPE OF PIPING steel

VEGETATION tank

ARTESIAN HEAD ?

FLUID ISSUES FROM outlet pipe
from windmill

ROCK DATA:

TYPE (SURFACE) Qal - andesite breccia
COLOR abund. epidote.

SALT:

GRAIN SIZE _____
MEGASCOPIC MINERALS _____

TYPE CaCO₃

QUANTITY med.

COLOR white

FORM crust

ALTERATION propylitic?

SINTER:

RX TYPE (AT DEPTH) Florida mts.

TYPE _____

WATER USED FOR IMMEDIATE AREA Cattle
USED FOR same

QUANTITY NO

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC. GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY Nunn?

PREVIOUS AND/OR CURRENT LEASES none -



SEND Results to ALAN BORDE
BOX 467
Columbus
No Photo
88029 N MEX

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14118 Date 7/3/80 Time 12⁰¹pm
Name ALAN BORDEWELL Location: Co. LUNA State N MEX
Sec. 3 Twp. 28S R. 9W ; SE NW km/mi _____ OF _____
Lat. 31° 54' Long. 107° 45' Elevation 4660 Quad. WEST LIME Hills 7.5
Sampler Huntsman

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

DESCRIPTION:

WATER TEMP. °C 22°C DISCHARGE _____ gpm/Lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. _____ DEPTH 600 feet
ODOR None BORE _____
FLUID COLOR Cloudy PUMP TYPE gas pump
FLUID TASTE no taste STATIC HEAD _____
BUBBLING ' SCALING _____
BOILING ' TYPE OF PIPING _____
VEGETATION ' ARTESIAN HEAD _____

FLUID ISSUES FROM Wendland ROCK DATA:
TYPE (SURFACE) Alv
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. 14119 Date 7/31/80 Time 2:30PM

Name CARRIZALILLO Spring Location: Co. LWA State N MEX

Sec. 29 Twp. 28S R. 11W ; _____ km/mi _____ OF _____

Lat. 31 51 Long. 107 59 Elevation 4535 Quad. HERMANAS

Sampler Huntman

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

DESCRIPTION:

WATER TEMP. °C 21°C

DISCHARGE _____ gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH _____

ODOR None

BORE _____

FLUID COLOR clear

PUMP TYPE _____

FLUID TASTE Good

STATIC HEAD _____

BUBBLING no

SCALING _____

BOILING no

TYPE OF PIPING _____

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM Rail Road handling

ROCK DATA:

well

TYPE (SURFACE) AH

COLOR _____

SALT:

GRAIN SIZE
MEGASCOPIC
MINERALS _____

TYPE None

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) No Guess

TYPE _____

WATER USED FOR
IMMEDIATE AREA
USED FOR Cattle, people

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. W14120 Date 8-4-80 Time 1:15 pm

Name Water Spr Location: Co. Catron State NM

Sec. 10 Twp. 105 R. 19W ; _____ km/mi _____ OF _____

Lat. 33° 22.5' Long. 108° 52.5' Elevation 6780 Quad. Mogollon

Sampler BH - X 21

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

DESCRIPTION:

WATER TEMP. °C 13° C

DISCHARGE seep gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 32°

DEPTH _____

ODOR none

BORE _____

FLUID COLOR clear

PUMP TYPE _____

FLUID TASTE good

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING _____

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM fractures

ROCK DATA:

in volcanic rocks

TYPE (SURFACE) volcanic tuffs + breccia

COLOR red brown

SALT:

GRAIN SIZE fine

TYPE _____

MEGASCOPIC MINERALS quartz, lithic

QUANTITY _____

fragments

COLOR _____

FORM _____

ALTERATION some silicification

SINTER:

RX TYPE (AT DEPTH) welded tuffs, volcanic mudstones

TYPE _____

WATER USED FOR IMMEDIATE AREA seasonal cabin

QUANTITY _____

USED FOR forest

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION probably meteoric

PROPERTY OWNED BY Forest Service

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14121 Date 7/21/80 Time 2:25 pm
 Name CLUFF RANCH HOUSE WELL Location: Co. DONA MAR State NM
 Sec. 36 Twp. 18S R. 2W ; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation _____ Quad. SAN DIEGO NT
 Sampler JL

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

DESCRIPTION:

WATER TEMP. °C 26 °C (POSS. SOLAR) DISCHARGE VARIABLE gpm/Lpm
 GROUND TEMP. °C _____ WELL DATA:
 AIR TEMP. 31 °C DEPTH 459'
 ODOR NONE BORE 6"
 FLUID COLOR CLEAR PUMP TYPE SUBMERSIBLE ELECTRIC
 FLUID TASTE GOOD STATIC HEAD ?
 BUBBLING NO SCALING NO
 BOILING NO TYPE OF PIPING 2.5" GALVANIZED
 VEGETATION _____ ARTESIAN HEAD NO
 FLUID ISSUES FROM PIPE FROM SUBMERSIBLE PUMP ROCK DATA:
 TYPE (SURFACE) MEDIUM GRAINED SAND w/ CALICHE
 COLOR MEDIUM BROWN
 GRAIN SIZE _____
 MEGASCOPIC MINERALS QUARTZ GRAINS
 SALT: NO TYPE _____ ALTERATION NONE
 QUANTITY _____ RX TYPE (AT DEPTH) _____
 COLOR _____ WATER USED FOR DOMESTIC USE
 FORM _____ USED FOR WATER TANK
 SINTER: NO TYPE _____ QUALITY OF SAMPLE: EXC., GOOD, POOR
 QUANTITY _____
 COLOR _____
 FORM _____
 PROBABLE CAUSE OF MANIFESTATION _____
 PROPERTY OWNED BY CLUFF RANCH ("DETROIT RANCH")
 PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14122 Date 7/21/80 Time 4:00 pm
Name UNNAMED WELL Location: Co. DOÑA ANA State NM
Sec. 14 Twp. 20S R. 1E ; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation _____ Quad. SAN DIEGO MT.
Sampler JL

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

DESCRIPTION:

WATER TEMP. °C 30° C (MAX READING THERMOMETER W/ AIR BUBBLE) DISCHARGE 8 gpm/lpm

GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. 31° DEPTH 105 m
ODOR NONE BORE 6"
FLUID COLOR CLEAR PUMP TYPE SUBMERSIBLE - ELECTRIC
FLUID TASTE GOOD STATIC HEAD 95 m BELOW SURF
BUBBLING NO SCALING CaCO3
BOILING NO TYPE OF PIPING 2" GALVANIZED
VEGETATION MINOR ALGAE IN TANK ARTESIAN HEAD NO

FLUID ISSUES FROM PIPE FROM SUBMERSIBLE PUMP ROCK DATA:
TYPE (SURFACE) SANDY QAL W/ CALICHE PEBBLES
COLOR MED. BROWN

SALT: TYPE CaCO3 GRAIN SIZE FINE GRAINED
QUANTITY HEAVY MEGASCOPIC MINERALS QTZ GRAINS
COLOR WHITE
FORM ENCrustATION ON PIPE SAMPLE TAKEN ALTERATION NONE

SINTER: NONE RX TYPE (AT DEPTH) SAME
TYPE _____ WATER USED FOR IMMEDIATE AREA CATTLE
QUANTITY _____ USED FOR WATERING TANK
COLOR _____
FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____
PROPERTY OWNED BY US FS, JORNADA EXPERIMENTAL RANGE
PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14123 Date 7/22/80 Time 12:15 pm
Name TURNER WELL Location: Co. DONNA ANA State NM
Sec. 2 Twp. 19S R. 2E ; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 9500 Quad. BEAR PEAK 15'
Sampler JL

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

DESCRIPTION:

WATER TEMP. °C 22.5 DISCHARGE VARIABLE gpm/Lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. 31° DEPTH _____
ODOR NONE BORE 6"
FLUID COLOR CLEAR PUMP TYPE WINDMILL
FLUID TASTE GOOD STATIC HEAD 100 M BELOW SURF. (AS PER LITERATURE)
BUBBLING NO SCALING NONE
BOILING NO TYPE OF PIPING 2" GALVANIZED
VEGETATION NONE ARTESIAN HEAD NO

FLUID ISSUES FROM TOP OF INNER CASING - SEEPING OUT AROUND ROD;

ROCK DATA:
TYPE (SURFACE) SAND W/ COBBLES OF AMESITE & SINTER
COLOR MED. BROWN / DK GRAY / DK. BPM
GRAIN SIZE MEDIUM GRAINED
MEGASCOPIC MINERALS QTZ GRAINS IN SAND

SALT: NONE
TYPE _____
QUANTITY _____
COLOR _____
FORM _____
SINTER: NONE
TYPE _____
QUANTITY _____
COLOR _____
FORM _____

ALTERATION NONE
RX TYPE (AT DEPTH) SAME
WATER USED FOR IMMEDIATE AREA CATTLE
USED FOR WATERING TANK

PROBABLE CAUSE OF MANIFESTATION _____
PROPERTY OWNED BY USDA JORNADA RANGE (CLYDE YARLSBOROUGH, NMGR)
PREVIOUS AND/OR CURRENT LEASES _____

NEEDS FILTERING; SOME GREASE FROM ROD



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14124 Date 7/22/80 Time 4:45 pm
 Name SOUTH WELL Location: Co. DONNA ANA State NM
 Sec. 28 Twp. 20 S R. 2 E ; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 4312 Quad. BEAR PEAK 15'
 Sampler JL

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

DESCRIPTION:

WATER TEMP. °C	<u>23.0°</u>	DISCHARGE	<u>VARIABLE</u> gpm/Lpm
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>32°</u>	DEPTH	<u>110 m</u>
ODOR	<u>NONE</u>	BORE	<u>9"</u>
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	<u>WINDMILL</u>
FLUID TASTE	<u>GOOD</u>	STATIC HEAD	<u>75 m BELOW SURFACE</u>
BUBBLING	<u>No</u>	SCALING	<u>NONE</u>
BOILING	<u>NO</u>	TYPE OF PIPING	<u>1.75" PVC</u>
VEGETATION	<u>NONE</u>	ARTESIAN HEAD	<u>NO</u>
FLUID ISSUES FROM	<u>PIPE FROM WINDMILL</u>	ROCK DATA:	
		TYPE (SURFACE)	<u>SAND w/ FEW PEBBLES & COBBLES OF LS, RHYOLITE & ASH</u>
		COLOR	<u>MEDIUM BROWN</u>
<u>SALT:</u>		GRAIN SIZE	<u>MEDIUM GRAINED SAND</u>
TYPE	_____	MEGASCOPIC MINERALS	<u>QUARTZ GRAINS</u>
QUANTITY	_____		
COLOR	_____		
FORM	_____	ALTERATION	<u>NONE</u>
<u>SINTER:</u>		RX TYPE (AT DEPTH)	<u>SAME</u>
TYPE	_____	WATER USED FOR IMMEDIATE AREA	<u>CATTLE</u>
QUANTITY	_____	USED FOR	<u>WATERING TANK</u>
COLOR	_____		
FORM	_____	QUALITY OF SAMPLE: EXC., <u>GOOD</u> , POOR	

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY USDA JORNADA RESERVE

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14125 Date 7/24/80 Time 3:15 pm
 Name CLEOFAS WELL (SW) Location: Co. DOÑA ANA State N.M.
 Sec. 22 Twp. Z15 R. 1E ; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 4550 A Quad. LAS CRUCES 15'
 Sampler JL

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

DESCRIPTION:

WATER TEMP. °C 25.5°C DISCHARGE VARIABLE gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 35.0°C

DEPTH ~4 m

ODOR NONE

BORE 1.5 m (HAND DUG)

FLUID COLOR CLEAR

PUMP TYPE WINDMILL

FLUID TASTE GOOD

STATIC HEAD ~3 m BELOW SURF.

BUBBLING NO

SCALING CaCO₃

BOILING NO

TYPE OF PIPING 2" GALVANIZED

VEGETATION NONE

ARTESIAN HEAD NO

FLUID ISSUES FROM PIPE FROM SHALLOW

ROCK DATA:

WINDMILL (HAND DUG WELL, 6 FT
BLADES):

TYPE (SURFACE) INTERMEDIATE PURPH. (LATIC?)

COLOR MEDIUM GRAY - DARK MATRIX & WHITE FLAG. FELD.

GRAIN SIZE 5 mm

MEGASCOPIC MINERALS FLAG. FELD.

SALT:

TYPE CaCO₃

QUANTITY MINOR

COLOR WHITE

FORM ENCrustATION ON PIPE

ALTERATION NONE

SINTER: NONE

RX TYPE (AT DEPTH) SAME

TYPE _____

WATER USED FOR IMMEDIATE AREA CATTLE ?

QUANTITY _____

USED FOR WATER TANK

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY NEW MEXICO A+M STATE COLLEGE

PREVIOUS AND/OR CURRENT LEASES _____



JL 2[#]-8

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14126 Date 7/25/80 Time 9.45am

Name HAWKINS RANCH WINDMILL Location: Co. Dona Ana State N MEX

Sec. 19 Twp. 22s R. 1w ; km/mi _____ OF _____

Lat. 32° 23' Long. 106.59 Elevation 4450 Quad LAS CRUCES N MEX 15min

Sampler LOUVEUIN

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

DESCRIPTION:

WATER TEMP. °C 23.5°C

DISCHARGE WINDMILL gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 29.5

DEPTH _____

ODOR NONE

BORE _____

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE METALLIC

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING _____

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM Windmill in ALV

ROCK DATA:

TYPE (SURFACE) ALV

COLOR _____

SALT:

GRAIN SIZE _____
MEGASCOPIC _____
MINERALS _____

TYPE CaCO₃

QUANTITY minor on pipe

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. 14127 Date 7/29/80 Time 9:30 am
 Name ALKALI WELL Location: Co. DOÑA ANA State NM
 Sec. 16 Twp. 24 S R. 4 W ; km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 4248 Quad. CAMBRAY
 Sampler JL

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

DESCRIPTION:

WATER TEMP. °C	<u>25.0°c</u>	DISCHARGE	<u>VARIABLE</u> gpm/Lpm
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	_____	DEPTH	<u>74.0 m (PROBED)</u>
ODOR	<u>NONE</u>	BORE	<u>6.5"</u>
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	<u>WINDMILL</u>
FLUID TASTE	<u>ALKALINE</u>	STATIC HEAD	<u>67.7 m BELOW SURF</u>
BUBBLING	<u>NO</u>	SCALING	<u>NONE</u>
BOILING	<u>NO</u>	TYPE OF PIPING	<u>2" IRON PIPE W/ RUBBER LINING</u>
VEGETATION	<u>ALGAE</u>	ARTESIAN HEAD	<u>NO</u>
FLUID ISSUES FROM	<u>PIPE FROM WINDMILL</u>	ROCK DATA:	
	_____	TYPE (SURFACE)	<u>SAND & PEBBLES</u>
	_____	COLOR	<u>REDDISH BROWN</u>
SALT: <u>NONE</u>		GRAIN SIZE	<u>COBBLES UP TO 20 CM</u>
TYPE	_____	MEGASCOPIC	
QUANTITY	_____	MINERALS	<u>COBBLES OF ANDESITE</u>
COLOR	_____		<u>BASALT, FELSIC TUFF, & QUARTZITE</u>
FORM	_____	ALTERATION	<u>NONE</u>
SINTER: <u>NONE</u>		RX TYPE (AT DEPTH)	<u>SAME</u>
TYPE	_____	WATER USED FOR	<u>CATTLE</u>
QUANTITY	_____	IMMEDIATE AREA	
COLOR	_____	USED FOR	<u>WATERING TANK</u>
FORM	_____	QUALITY OF SAMPLE: EXC., <u>GOOD</u> , POOR	

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



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14128 Date 7/31/80 Time 11:30 AM
 Name PUMP WINDMILL Location: Co. LUNA State NM
 Sec. 20 Twp. 26S R. 11W ; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 4292 ft Quad. GACE SE
 Sampler JL

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

DESCRIPTION:

WATER TEMP. °C	<u>20.0 °C</u>	DISCHARGE	<u>VARIABLE</u> gpm/Lpm
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>35.5 °C</u>	DEPTH	<u>600 ft + ? (RANCH HAND)</u>
ODOR	<u>NONE</u>	BORE	<u>6"</u>
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	<u>WINDMILL</u>
FLUID TASTE	<u>GOOD</u>	STATIC HEAD	<u>?</u>
BUBBLING	<u>NO</u>	SCALING	<u>MINOR CaCO₃</u>
BOILING	<u>NO</u>	TYPE OF PIPING	<u>2" / R0N</u>
VEGETATION	<u>GRASSES, TREES</u>	ARTESIAN HEAD	<u>NO</u>

FLUID ISSUES FROM PIPE FROM WINDMILL, ROCK DATA:

ALONG "76 DRAW" TYPE (SURFACE) 9g/l
 COLOR MEDIUM BROWN

SALT: NONE

TYPE	<u>CaCO₃</u>	GRAIN SIZE	<u>MEDIUM</u>
QUANTITY	<u>MINOR</u>	MEGASCOPIC MINERALS	_____
COLOR	<u>WHITE</u>		
FORM	<u>ENCrustATION ON PIPE</u>	ALTERATION	<u>NONE</u>

SINTER: NONE RX TYPE (AT DEPTH) SAME
 TYPE _____ WATER USED FOR IMMEDIATE AREA CATTLE
 QUANTITY _____ USED FOR WATERING TANK
 COLOR _____
 FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY JOHN KECK (V)

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14129 Date 7/31/80 Time 1:15 pm
 Name KLONDIKE WELL Location: Co. LUNA State NM.
 Sec. 21 Twp. 26S R. 12W ; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 4562 FT Quad. GAGE SE
 Sampler JL

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

DESCRIPTION:

WATER TEMP. °C 25.5°C ^{→ POSSIBLY SOLAR} DISCHARGE VARIABLE gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 35.5°C DEPTH ?

ODOR NONE BORE ?

FLUID COLOR CLEAR PUMP TYPE WINDMILL

FLUID TASTE GOOD STATIC HEAD ?

BUBBLING NO SCALING VERY MINOR CaCO₃

BOILING NO TYPE OF PIPING 1.5" BLACK PVC

VEGETATION NONE IN TANK ARTESIAN HEAD NO

FLUID ISSUES FROM PIPE (BLACK PVC) RUNNING

ROCK DATA:

400 FT FROM WINDMILL

TYPE (SURFACE) Qal

COLOR MED. BROWN

SALT:

GRAIN SIZE _____
 MEGASCOPIC _____
 MINERALS _____

TYPE CaCO₃

QUANTITY VERY MINOR

COLOR WHITE

FORM ENCrustATION ON PIPE

ALTERATION NONE

SINTER: NONE

RX TYPE (AT DEPTH) SAME

TYPE _____

WATER USED FOR IMMEDIATE AREA CATTLE

QUANTITY _____

USED FOR CORRALS & WATERING

COLOR _____

TANK ; OLD HOUSE

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY JOHN KECK (E)

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14130 Date 7/31/80 Time 3:45 pm
 Name PIPELINE WELL Location: Co. LUNA State NM
 Sec. 7 Twp. 26S R. 12W ; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 4580 ft Quad. GAGE SE
 Sampler JL

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

DESCRIPTION:

WATER TEMP. °C	<u>24.5 °C</u>	DISCHARGE	<u>10</u> <u>(gpm)</u> /Lpm
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>36.0 °C</u>	DEPTH	<u>?</u>
ODOR	<u>NONE</u>	BORE	<u>6"</u>
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	<u>GASOLINE-DRIVEN JACK PUMP</u>
FLUID TASTE	<u>GOOD</u>	STATIC HEAD	<u>?</u>
BUBBLING	<u>ND</u>	SCALING	<u>MINOR CaCO₃</u>
BOILING	<u>NO</u>	TYPE OF PIPING	<u>2" GALVANIZED</u>
VEGETATION	<u>ALGAE IN TANK</u>	ARTESIAN HEAD	<u>NO</u>
FLUID ISSUES FROM	<u>PIPE FROM PUMPING</u>	ROCK DATA:	
<u>WELL</u>	_____	TYPE (SURFACE)	<u>COARSE SANDY Qal</u>
		COLOR	<u>MED. BROWN</u>
SALT:		GRAIN SIZE	<u>COARSE</u>
TYPE	<u>CaCO₃</u>	MEGASCOPIC MINERALS	<u>—</u>
QUANTITY	<u>MINOR</u>		
COLOR	<u>WHITE</u>		
FORM	<u>ENCrustation on PIPE</u>	ALTERATION	<u>NONE</u>
SINTER:	<u>NONE</u>	RX TYPE (AT DEPTH)	<u>SAME?</u>
TYPE	_____	WATER USED FOR IMMEDIATE AREA	<u>CATTLE</u>
QUANTITY	_____	USED FOR	<u>WATERING TANK</u>
COLOR	_____		
FORM	_____	QUALITY OF SAMPLE: EXC., <u>GOOD</u> , POOR	

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY JOHN KECK V RANCH

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14131 Date 8/2/80 Time 4:30 pm

Name MISSION WELL Location: Co. GRANT State NM

Sec. 36 Twp. 22S R. 14W ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 4972 Quad. GRANDMOTHER MOUNTAIN WEST

Sampler JL

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

DESCRIPTION:

WATER TEMP. °C	<u>25.0°C</u>	DISCHARGE	<u>VARIABLE - REGULATED BY FLOATING BALL</u> gpm/Lpm
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>36.0°C</u>	DEPTH	<u>?</u>
ODOR	<u>NONE</u>	BORE	<u>?</u>
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	<u>SUBMERSIBLE ELECTRIC</u>
FLUID TASTE	<u>GOOD</u>	STATIC HEAD	<u>?</u>
BUBBLING	<u>NO</u>	SCALING	<u>CaCO₃, Cu?</u>
BOILING	<u>NO</u>	TYPE OF PIPING	<u>1.5" GALVANIZED</u>
VEGETATION	<u>NONE</u>	ARTESIAN HEAD	<u>NO</u>
FLUID ISSUES FROM	<u>PIPE FROM WELL</u>	ROCK DATA:	

		TYPE (SURFACE)	<u>SILT W/ COARSE SAND (Qal)</u>
		COLOR	<u>MEDIUM REDDISH BROWN</u>

SALT:

TYPE	<u>CaCO₃</u>	<u>Cu?</u>	GRAIN SIZE	_____
QUANTITY	<u>MINOR</u>	<u>MINOR</u>	MEGASCOPIC MINERALS	<u>COBBLES OF: VESICULAR</u>
COLOR	<u>WHITE</u>	<u>PALE BLUE</u>		<u>BASALT, FELSIC TO INTERMEDIATE VOLCANIC</u>
FORM	<u>ENCrustATION ON PIPE</u>			<u>PORPHYRIES, WELDED FELSIC TUFF</u>
			ALTERATION	<u>NONE</u>

SINTER: NONE

TYPE	_____	RX TYPE (AT DEPTH)	<u>SAME</u>
QUANTITY	_____	WATER USED FOR IMMEDIATE AREA	<u>CATTLE</u>
COLOR	_____	USED FOR	<u>WATERING TANK & CORNALS</u>

FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY KIPP RANCH

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14132 Date 8/4/80 Time 11:00 am
 Name UNNAMED WELL Location: Co. GRANT State NM
 Sec. 35 Twp. 13S R. 20W; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 5450 Quad. MOON RANCH
 Sampler JL

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

DESCRIPTION:

WATER TEMP. °C	<u>?°</u>	DISCHARGE	<u>?</u> gpm/Lpm
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>23.5° C</u>	DEPTH	<u>~30 FT (AS PER RANCHER)</u>
ODOR	<u>NONE</u>	BORE	<u>?</u>
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	<u>WINDMILL</u>
FLUID TASTE	<u>GOOD</u>	STATIC HEAD	<u>?</u>
BUBBLING	<u>NO</u>	SCALING	<u>?</u>
BOILING	<u>NO</u>	TYPE OF PIPING	<u>METAL, BLACK PLASTIC, PVC, GARDEN HOSE</u>
VEGETATION	<u>?</u>	ARTESIAN HEAD	<u>NO</u>

FLUID ISSUES FROM SAMPLE TAKEN @ GARDEN

HOSE 1.4 MILES WNW OF WELL

ROCK DATA:

TYPE (SURFACE) SANDED INTERMEDIATE VOLCANICS
 COLOR VESICULAR BASALT (IN ROAD CUT 0.5 MILES SOUTH)
 GRAIN SIZE APHANTIC
 MEGASCOPIC MINERALS NONE

SALT: ?

TYPE _____
 QUANTITY _____
 COLOR _____
 FORM _____

ALTERATION NONE

SINTER: ?

TYPE _____
 QUANTITY _____
 COLOR _____
 FORM _____

RX TYPE (AT DEPTH) SAME?

WATER USED FOR IMMEDIATE AREA USED FOR DOMESTIC USE

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY GRACE HENRY

PREVIOUS AND/OR CURRENT LEASES _____



1965

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14 133 Date 8/4/80 Time 2:45pm

Name ROCK SPRING Location: Co. GRANT State NM

Sec. 34, 114 Twp. 13S R. 21W ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 5560 ft Quad. BIG LUE MOUNTAINS (15')

Sampler JL

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

DESCRIPTION:

WATER TEMP. °C	<u>24.0°C</u>	DISCHARGE	<u>2</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	_____
FLUID TASTE	<u>GOOD</u>	STATIC HEAD	_____
BUBBLING	<u>NO</u>	SCALING	_____
BOILING	<u>NO</u>	TYPE OF PIPING	_____
VEGETATION	<u>GRASSES</u>	ARTESIAN HEAD	_____

FLUID ISSUES FROM	_____	ROCK DATA:	
	_____	TYPE (SURFACE)	<u>MUDFLOW CONGLOMERATE</u>
	_____	COLOR	<u>LIGHT REDDISH BROWN</u>
	_____	GRAIN SIZE	<u>LITHIC FRAGMENTS UP TO 5 CM</u>
	_____	MEGASCOPIC MINERALS	<u>NONE</u>

SALT:			
TYPE	<u>CaCO₂</u>		
QUANTITY	<u>MINOR</u>		
COLOR	<u>WHITE</u>		
FORM	<u>ENCrustATION ON ROCKS</u>	ALTERATION	<u>NONE</u>

SINTER:	<u>NONE - BUT SAMPLE MAY HAVE</u>	RX TYPE (AT DEPTH)	<u>SAME</u>
TYPE	<u>HIGH SiO₂ DUE TO</u>	WATER USED FOR IMMEDIATE AREA	<u>NOTHING</u>
QUANTITY	<u>AMORPHOUS SILICA -</u>	USED FOR	<u>NOTHING</u>
COLOR	<u>OBsIDIAN & CHALCEDONY</u>		
FORM	<u>FOUND IN AREA</u>	QUALITY OF SAMPLE: EXC., <u>GOOD</u> , POOR	<u>FILTERED</u>

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

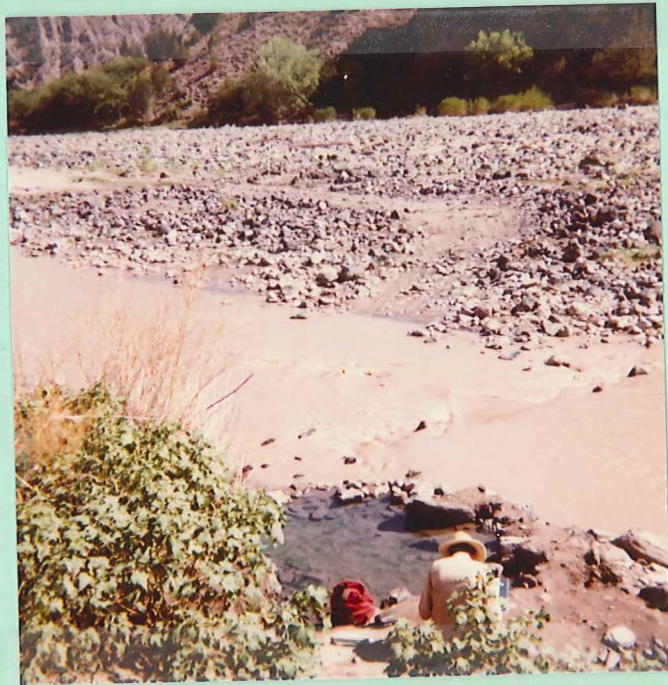
Spring No. _____ Sample No. 14134 Date 8/6/80 Time 4:15 PM
 Name SAN FRANCISCO HOT SPRING Location: Co. CATRON State NM
 Sec. 23, 321 Twp. 12S R. 20 W; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 4562 FT Quad. WILSON MOUNTAIN
 Sampler JL & KG

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

DESCRIPTION:

WATER TEMP. °C	<u>46 °C</u>	DISCHARGE	<u>40</u> <u>gpm/Lpm</u>
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>32.5 °C</u>	DEPTH	_____
ODOR	<u>NONE</u>	BORE	_____
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	_____
FLUID TASTE	<u>GOOD</u>	STATIC HEAD	_____
BUBBLING	<u>YES</u>	SCALING	_____
BOILING	<u>NO</u>	TYPE OF PIPING	_____
VEGETATION	<u>DARK GREEN ALGAE</u>	ARTESIAN HEAD	_____
FLUID ISSUES FROM	<u>EAST BANK OF</u>	ROCK DATA:	
	<u>SAN FRANCISCO RIVER</u>	TYPE (SURFACE)	<u>GILA CONGLOMERATE</u>
		COLOR	<u>DARK BASALT COBBLES, LIGHT BLEN SILT</u>
<u>SALT:</u>		GRAIN SIZE	<u>COBBLES UP TO 30 CM</u>
TYPE	<u>NaCl</u>	MEGASCOPIC MINERALS	_____
QUANTITY	<u>MINOR</u>		
COLOR	<u>WHITE</u>		
FORM	<u>ENCrustATION ON SAND & COBBLES</u>	ALTERATION	<u>NONE</u>
<u>SINTER:</u>		RX TYPE (AT DEPTH)	<u>SAME?</u>
TYPE	<u>NONE</u>	WATER USED FOR IMMEDIATE AREA	<u>BATHING</u>
QUANTITY	_____	USED FOR	<u>NOTHING</u>
COLOR	_____		
FORM	_____	QUALITY OF SAMPLE: EXC. <u>GOOD</u> POOR	

PROBABLE CAUSE OF MANIFESTATION POSSIBLE FAULT OR CONTACT OF GILA CONGL. & BASALT
 PROPERTY OWNED BY US FS ?
 PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14135 Date 8/5/80 Time 4:45 pm
 Name UNNAMED HOT SPRING, SAN FRANCISCO RIVER Location: Co. CATRON State NM
 Sec. 23, 323 Twp. 12S R. 20 W ; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 4560 FT Quad. WILSON MOUNTAIN
 Sampler _____

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

DESCRIPTION:

WATER TEMP. °C	<u>45°</u>	DISCHARGE	<u>4</u> <u>gpm/Lpm</u>
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>32.5° C</u>	DEPTH	_____
ODOR	<u>NONE</u>	BORE	_____
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	_____
FLUID TASTE	<u>SLIGHT SOUR, ALUM TASTE</u>	STATIC HEAD	_____
BUBBLING	<u>YES</u>	SCALING	_____
BOILING	<u>No</u>	TYPE OF PIPING	_____
VEGETATION	<u>DARK GREEN ALGAE</u>	ARTESIAN HEAD	_____
FLUID ISSUES FROM	<u>WEST BANK OF SAN FRANCISCO RIVER</u>	ROCK DATA:	
		TYPE (SURFACE)	<u>GILA CONGL.</u>
		COLOR	<u>DARK COBBLES & LIGHT BGN SILT</u>
SALT: <u>NONE</u>		GRAIN SIZE	<u>COBBLES UP TO 50 CM</u>
TYPE	<u>Na Cl</u>	MEGASCOPIC MINERALS	_____
QUANTITY	<u>Min or</u>		
COLOR	<u>WHITE</u>		
FORM	<u>ENCrustATION ON SAND & COBBLES</u>	ALTERATION	<u>NONE</u>
SINTER: <u>NONE</u>		RX TYPE (AT DEPTH)	<u>SAME</u>
TYPE	_____	WATER USED FOR IMMEDIATE AREA	<u>NOTHING</u>
QUANTITY	_____	USED FOR	<u>NOTHING</u>
COLOR	_____		
FORM	_____	QUALITY OF SAMPLE: EXC., <u>GOOD</u> , POOR	

PROBABLE CAUSE OF MANIFESTATION POSSIBLE FAULT OR CONTACT OF GILA CONGL. & BASALT

PROPERTY OWNED BY USFS

PREVIOUS AND/OR CURRENT LEASES _____



Photo JL2-19

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14136 Date 8/7/80 Time 1:00 PM

Name Johnson well Location: Co. Grant State N.M.

Sec. 26 Twp. 14S R. 20W ; 3133 km/mi _____ OF _____

Lat. 33° 3.2' Long. 108° 53' Elevation 5670' Quad. Mule Creek

Sampler WA + JL

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

DESCRIPTION:

WATER TEMP. °C 24.5°C

DISCHARGE Variable gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 30°C

DEPTH 330'

ODOR No

BORE not visible

FLUID COLOR Clear

PUMP TYPE Sub-pump

FLUID TASTE Good

STATIC HEAD -

BUBBLING No

SCALING Minor on outlet

BOILING No

TYPE OF PIPING -

VEGETATION Yes

ARTESIAN HEAD -

FLUID ISSUES FROM pipe connected to sub-pump

ROCK DATA:
TYPE (SURFACE) aphenitic basaltic andesite
COLOR med-grey
GRAIN SIZE 1mm (only 4% of rock)
MEGASCOPIC MINERALS plagioclase

SALT: None

TYPE /

QUANTITY /

COLOR /

FORM /

ALTERATION None visible

SINTER: None

RX TYPE (AT DEPTH) more basalts, volcanic

TYPE /

WATER USED FOR IMMEDIATE AREA USED FOR Irrigation

QUANTITY /

COLOR /

FORM /

QUALITY OF SAMPLE: EXC. GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION -

PROPERTY OWNED BY Johnson Ranch

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14137 Date 8/9/80 Time 12:15 Pm

Name Well Location: Co. Grant State N.M.

Sec. 4 Twp. 15S R. 18W ; 2233 km/mi _____ OF _____

Lat. 33° 1.9' Long. 108° 42' Elevation 4770' Quad. Buckhorn Quad.

Sampler J.L. + W.A.

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

DESCRIPTION:

WATER TEMP. °C 20.75°C

DISCHARGE Variable gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH 110 m ? see map

ODOR No

BORE 8"

FLUID COLOR Clear

PUMP TYPE Wind driven

FLUID TASTE Good

STATIC HEAD -

BUBBLING -

SCALING Yes; on pipes

BOILING -

TYPE OF PIPING -

VEGETATION Yes

ARTESIAN HEAD -

FLUID ISSUES FROM pipe connected to pumping windmill

ROCK DATA:

TYPE (SURFACE) Alluvium

COLOR -

GRAIN SIZE MEGASCOPIC MINERALS -

SALT: None

QUANTITY /

COLOR /

FORM /

ALTERATION None visible

SINTER: None

RX TYPE (AT DEPTH) vesicular basalts

QUANTITY /

COLOR /

FORM /

WATER USED FOR IMMEDIATE AREA USED FOR cattle

QUALITY OF SAMPLE EXC, GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION -

PROPERTY OWNED BY Moon Ranch

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14138 Date 8/9/80 Time 4:00 pm
Name MUD SPRING Location: Co. GRANT State NM
Sec. 6, 2423 Twp. 14S R. 17W ; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 5560 FT Quad. RUCKHORN
Sampler JL + WA

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

DESCRIPTION:

WATER TEMP. °C 25°

DISCHARGE SEEP gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 23.5°

DEPTH _____

ODOR NONE

BORE _____

FLUID COLOR MURKY

PUMP TYPE _____

FLUID TASTE GOOD

STATIC HEAD _____

BUBBLING NO

SCALING _____

BOILING NO

TYPE OF PIPING _____

VEGETATION TREES

ARTESIAN HEAD _____

FLUID ISSUES FROM BOTTOM OF STREAM BED

ROCK DATA:

IN ALLUVIUM ; 3 MILES NE OF

TYPE (SURFACE) Qal w/ COBBLES OF FELSIC TO

GEOTHERMAL LEASING

COLOR INTERMEDIATE VOLCANIC

SALT: NONE

GRAIN SIZE _____

TYPE _____

MEGASCOPIC _____

QUANTITY _____

MINERALS _____

COLOR _____

FORM _____

ALTERATION NONE

SINTER: NONE

RX TYPE (AT DEPTH) SAME

TYPE _____

WATER USED FOR NOTHING

QUANTITY _____

IMMEDIATE AREA _____

COLOR _____

USED FOR NOTHING

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR - FULL OF LARVAE

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY LAWRENCE SHELLY

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14139 Date 8/10/80 Time _____
Name Sycamore Spring Location: Co. Grant State N.M.
Sec. 17 Twp. 16S R. 17W ; 412 km/mi _____ OF _____
Lat. 32° 54.7' Long. 108° 37.5' Elevation 4510 Quad. Cliff
Sampler J.L. + W.A.

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

DESCRIPTION:

WATER TEMP. °C 21°C DISCHARGE Seep gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 22.5°C

DEPTH _____

ODOR No

BORE _____

FLUID COLOR Clear

PUMP TYPE _____

FLUID TASTE Good

STATIC HEAD _____

BUBBLING No

SCALING _____

BOILING No

TYPE OF PIPING _____

VEGETATION Yes Trees + grasses

ARTESIAN HEAD _____

FLUID ISSUES FROM gravels in
the channel of
Sycamore Creek

ROCK DATA:

TYPE (SURFACE) Alluvium (gravel)

COLOR _____

SALT: None
TYPE _____

GRAIN SIZE
MEGASCOPIC
MINERALS _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION None visible

SINTER: None
TYPE _____

RX TYPE (AT DEPTH) Silice volcanics?

QUANTITY _____

COLOR _____

FORM _____

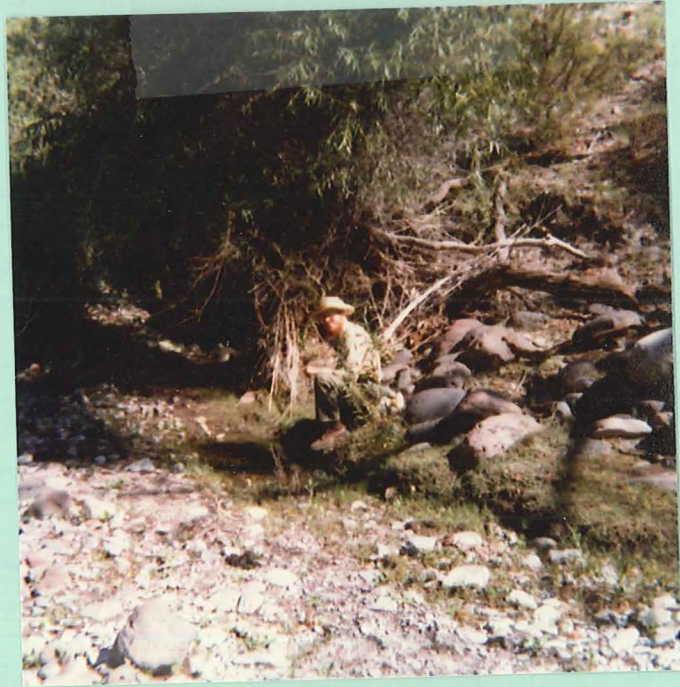
WATER USED FOR
IMMEDIATE AREA
USED FOR Cattle

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Surfacing of meteoric water?

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14140 Date 8/10/80 Time 1:20 pm

Name SLATE CREEK SPRING Location: Co. GRANT State NM

Sec. (2) 2724 Twp. 18S R. 18W ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 4710 FT Quad. CLIFA

Sampler JL + WA

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

DESCRIPTION:

WATER TEMP. °C 23.75°C

DISCHARGE 3 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 30.0°C

DEPTH _____

ODOR NONE

BORE _____

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE Good

STATIC HEAD _____

BUBBLING NO

SCALING _____

BOILING NO

TYPE OF PIPING _____

VEGETATION GRASSES

ARTESIAN HEAD _____

FLUID ISSUES FROM PIPE FROM HILLSIDE

ROCK DATA:

TYPE (SURFACE) SLATE

COLOR BLACK

SALT: NONE

GRAIN SIZE APHANITIC

TYPE _____

MEGASCOPIC MINERALS _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION Fe STAINING

SINTER: NONE

RX TYPE (AT DEPTH) SAME

TYPE _____

WATER USED FOR CATTLE

QUANTITY _____

IMMEDIATE AREA USED FOR WATERING

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION METEORIC WATER

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14141 Date 8/10/80 Time 2:00 pm
 Name ASH CREEK CAMP WELL Location: Co. GRANT State NM
 Sec. 22, 3321 Twp. 17S R. 18W ; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 4989 Quad. CLIFF
 Sampler JL + WA

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

DESCRIPTION:

WATER TEMP. °C	<u>17.5°C</u>	DISCHARGE	<u>VARIABLE</u>	gpm/Lpm
GROUND TEMP. °C	_____	WELL DATA:		
AIR TEMP.	<u>33.5°C</u>	DEPTH	_____	
ODOR	<u>NONE</u>	BORE	<u>6" CASING</u>	
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	<u>WINDMILL w/ 7' BLADES</u>	
FLUID TASTE	<u>GOOD</u>	STATIC HEAD	_____	
BUBBLING	<u>NO</u>	SCALING	_____	
BOILING	<u>NO</u>	TYPE OF PIPING	_____	
VEGETATION	<u>GRASSES</u>	ARTESIAN HEAD	_____	
FLUID ISSUES FROM	<u>WINDMILL ADJACENT TO</u>	ROCK DATA:		
	<u>"SPRING" (METEORIC) MARKED ON MAP</u>	TYPE (SURFACE)	<u>RYHOLITE PORPHYRY</u>	
	_____	COLOR	<u>PINKISH</u>	
SALT:	<u>NONE</u>	GRAIN SIZE	<u>3 MM</u>	
TYPE	_____	MEGASCOPIC MINERALS	<u>QTZ, SANIDINE, BIOTITE</u>	
QUANTITY	_____	ALTERATION	<u>NONE</u>	
COLOR	_____	RX TYPE (AT DEPTH)	<u>SAME</u>	
FORM	_____	WATER USED FOR IMMEDIATE AREA	<u>DOMESTIC USE</u>	
SINTER:	<u>NONE</u>	USED FOR	<u>HOUSE + CORRALS</u>	
TYPE	_____	QUALITY OF SAMPLE: EXC., <u>GOOD</u> , POOR		
QUANTITY	_____			
COLOR	_____			
FORM	_____			

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14142 Date 8/10/90 Time 3:00 PM

Name UNNAMED WELL Location: Co. GRANT State NM

Sec. 31, 3121 Twp. 15S R. 17W ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 4710 Quad. CLIFF

Sampler JL + WA

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

DESCRIPTION:

WATER TEMP. °C 20.5°c DISCHARGE VARIABLE gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. 32.0°c DEPTH 20 m (AS PER OWNER)

ODOR NONE BORE ?

FLUID COLOR CLEAR PUMP TYPE SUBMERSIBLE

FLUID TASTE GOOD STATIC HEAD ?

BUBBLING NO SCALING NONE

BOILING NO TYPE OF PIPING BLACK PLASTIC

VEGETATION TREES GRASSES ARTESIAN HEAD NO

FLUID ISSUES FROM PIPE FROM SUB. PUMP, ROCK DATA:

SAMPLE IS IN GEOTHERMAL LEASE TYPE (SURFACE) VOLCANIC ALLUVIUM

COLOR MEDIUM BROWN

SALT: NONE GRAIN SIZE _____

TYPE _____ MEGASCOPIC _____

QUANTITY _____ MINERALS _____

COLOR _____

FORM _____ ALTERATION NONE

SINTER: NONE RX TYPE (AT DEPTH) SAME (?)

TYPE _____ WATER USED FOR DOMESTIC + IRRIGATION

QUANTITY _____ IMMEDIATE AREA _____

COLOR _____ USED FOR GARDEN

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. 14143 Date 8/10/80 Time 4:40 pm
 Name UNNAMED WELL Location: Co. GRANT State NM
 Sec. 33, 4232 Twp. 14S R. 17W; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 4846 FT Quad. CANTEEN CANYON
 Sampler WA + JL

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

DESCRIPTION:

WATER TEMP. °C	<u>24.5°C</u>	DISCHARGE	<u>VARIABLE</u>	gpm/Lpm
GROUND TEMP. °C	_____	WELL DATA:		
AIR TEMP.	<u>24.0°C</u>	DEPTH	<u>100 m (LITERATURE)</u>	
ODOR	<u>NONE</u>	BORE	_____	
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	<u>WINDMILL</u>	
FLUID TASTE	<u>GOOD</u>	STATIC HEAD	<u>?</u>	
BUBBLING	<u>NO</u>	SCALING	<u>NO</u>	
BOILING	<u>NO</u>	TYPE OF PIPING	<u>2" GALVANIZED</u>	
VEGETATION	<u>NONE</u>	ARTESIAN HEAD	<u>NO</u>	

FLUID ISSUES FROM PIPE INSIDE TANK, FED BY PUMANE WINDMILL; NE OF GEOTHERMAL LEASED AREA; LITERATURE #359 ROCK DATA: TYPE (SURFACE) Qal w/ COBBLES OF FELSIC TO INTERMEDIATE PORPHYRIES & WELOEA TUFFS COLOR _____

SALT: NONE GRAIN SIZE MEGASCOPIIC MINERALS COBBLES UP TO 50 CM

TYPE _____ QUANTITY _____ COLOR _____ FORM _____ ALTERATION NONE

SINTER: NONE RX TYPE (AT DEPTH) SAME WATER USED FOR IMMEDIATE AREA CATTLE USED FOR WATERING TANK

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. 14144 Date 8/12/80 Time 9:00 am
 Name UNNAMED SPRING SOUTH OF TREASURE MOUNTAIN Location: Co. GRANT State NM
 Sec. 34, 2314 Twp. 17S R. 15W; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 5895 FT Quad. CIRCLE MESA
 Sampler JL

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

DESCRIPTION:

WATER TEMP. °C 21.5° C
GROUND TEMP. °C _____
AIR TEMP. 17.5° C
ODOR NONE
FLUID COLOR CLEAR
FLUID TASTE GOOD
BUBBLING NO
BOILING NO
VEGETATION GREEN ALGAE

DISCHARGE 30 gpm/Lpm

WELL DATA:

DEPTH _____
BORE _____
PUMP TYPE _____
STATIC HEAD _____
SCALING _____
TYPE OF PIPING _____
ARTESIAN HEAD _____

FLUID ISSUES FROM PIPE INSIDE TANK

ROCK DATA:

NOTE: SAMPLE NOT TAKEN FROM TANK OVERFLOW

TYPE (SURFACE) POORLY CONSOLIDATED CONGLOMERATE
COLOR LIGHT REDDISH BROWN
GRAIN SIZE COBBLES UP TO 20 CM
MEGASCOPIC MINERALS COBBLES OF GRANITE, QTZITE, LIMESTONE, MAFIC VOLCANIC PORPHYRY, ? BRECCIA w/ QTZ DRUSE IN FRACTURES

SALT: NONE
TYPE _____
QUANTITY _____
COLOR _____
FORM _____

ALTERATION NONE
RX TYPE (AT DEPTH) GRANITE? WHATEVER TREASURE MT IS MADE OF?

SINTER: NONE
TYPE _____
QUANTITY _____
COLOR _____
FORM _____

WATER USED FOR IMMEDIATE AREA USED FOR BATHING ? LIVESTOCK TANK

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. 14145 Date 8/12/80 Time 11:15 pm
 Name ASH SPRING Location: Co. GRANT State NM
 Sec. 21, 1112 Twp. 17S R. 15W ; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 5800' Quad. CIRCLE MESA
 Sampler JL

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>8</u> gpm/Lpm
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>22.0°C</u>	DEPTH	_____
ODOR	<u>NONE</u>	BORE	_____
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	_____
FLUID TASTE	<u>GOOD</u>	STATIC HEAD	_____
BUBBLING	<u>NO</u>	SCALING	_____
BOILING	<u>NO</u>	TYPE OF PIPING	_____
VEGETATION	<u>GRASS, ALGAE, ASH TREE</u>	ARTESIAN HEAD	_____

FLUID ISSUES FROM	<u>FRACTURE IN GRANITE; SAMPLE</u>	ROCK DATA:	
TAKEN @ BASE OF CLIFF ~ 0.2 MILES BELOW ACTUAL		TYPE (SURFACE)	<u>GRANITE</u>
SPRING; TEMP. TAKEN @ ACTUAL SPRING		COLOR	<u>PINKISH</u>

<u>SALT:</u>		GRAIN SIZE	<u>5 mm</u>
TYPE	<u>CaCO₃</u>	MEGASCOPIC MINERALS	<u>QTZ, K-SPAR, AMPHIBOLE</u>
QUANTITY	<u>VERY MINOR</u>		
COLOR	<u>WHITE</u>		
FORM	<u>STAINING ON GRANITE</u>	ALTERATION	<u>NONE</u>

<u>SINTER:</u>	<u>NONE</u>	RX TYPE (AT DEPTH)	<u>SAME</u>
TYPE	_____	WATER USED FOR IMMEDIATE AREA	<u>CATTLE</u>
QUANTITY	_____	USED FOR	<u>NOTHING</u>
COLOR	_____		
FORM	_____	QUALITY OF SAMPLE: EXC., <u>GOOD</u> , POOR	

PROBABLE CAUSE OF MANIFESTATION FAULTING OF GRANITE
 PROPERTY OWNED BY RICHARDSON RANCH
 PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14146 Date 8/12/80 Time 3:30 pm
 Name COTTONWOOD SPRING Location: Co. GRANT State NM
 Sec. 10, 3212 Twp. 15S R. 16W ; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 5325 FT Quad. CANYON HILL
 Sampler JL

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

DESCRIPTION:

WATER TEMP. °C	<u>19.0°C</u>	DISCHARGE	<u>5</u> gpm/Lpm
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>22.5°C</u>	DEPTH	_____
ODOR	<u>NONE</u>	BORE	_____
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	_____
FLUID TASTE	<u>GOOD</u>	STATIC HEAD	_____
BUBBLING	<u>No</u>	SCALING	_____
BOILING	<u>No</u>	TYPE OF PIPING	_____
VEGETATION	<u>ALGAE, GRASSES, TREES</u>	ARTESIAN HEAD	_____

FLUID ISSUES FROM PIPE INTO BOTTOM OF CEMENT TANK, PIPE COMES FROM UNDER ALLUVIUM, @ CONTACT W/ BEDROCK

ROCK DATA:
 TYPE (SURFACE) CHLORITIZED META SEDIMENTS (SS?)
 COLOR GREENISH

SALT:

TYPE	<u>CaCO₃</u>	GRAIN SIZE	_____
QUANTITY	<u>MINOR</u>	MEGASCOPIC MINERALS	_____
COLOR	<u>WHITE</u>		
FORM	<u>STAIN ON STREAM COBBLES</u>	ALTERATION	<u>NONE</u>

SINTER:

TYPE	<u>NONE</u>	RX TYPE (AT DEPTH)	<u>SAME</u>
QUANTITY	_____	WATER USED FOR IMMEDIATE AREA	<u>LIVESTOCK</u>
COLOR	_____	USED FOR	<u>CEMENT TANK</u>
FORM	_____	QUALITY OF SAMPLE: EXC., GOOD, <u>POOR</u>	<i>needs filtering</i>

PROBABLE CAUSE OF MANIFESTATION FRACTURES IN META SEDIMENT - NOT METEORIC - WATER FLOWS YEAR-ROUND (AS PER RANCHER)
 PROPERTY OWNED BY USFS
 PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14147 Date 8/13/80 Time 10:15am

Name ALLEN SPRING Location: Co. GRANT State NM

Sec. 26, 4/22 Twp. 16S R. 15 W ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation _____ Quad. _____

Sampler JL+KG

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 80 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 25.5°C

DEPTH _____

ODOR NONE

BORE _____

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE GOOD

STATIC HEAD _____

BUBBLING NO

SCALING _____

BOILING NO

TYPE OF PIPING _____

VEGETATION ALGAE, CHICKWEED

ARTESIAN HEAD _____

FLUID ISSUES FROM ALLUVIUM IN STREAM

ROCK DATA:

CHANNEL

TYPE (SURFACE) LIMESTONE (MASSIVE)

COLOR MEDIUM GRAY

SALT:

TYPE CaCO₃ ALSO UNIDENTIFIED SALT (BICARBONATE?) FROM CRACKS IN OVERLYING SHALE

GRAIN SIZE _____
MEGASCOPIC MINERALS _____

QUANTITY MINOR

COLOR WHITE

FORM ENCrustation ON STREAM COBBLES ALTERATION RED FE STAIN, SILICIFICATION

SINTER:

RX TYPE (AT DEPTH) LIMESTONE

TYPE NONE

WATER USED FOR IMMEDIATE AREA CATTLE
USED FOR NOTHING

QUANTITY _____

COLOR _____

FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION FAULTING IN LIMESTONE & OVERLYING SHALE

PROPERTY OWNED BY PRIVATE

PREVIOUS AND/OR CURRENT LEASES _____



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64

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14148 Date 8/13/80 Time 2:05 pm

Name UNNAMED SPRING @ DORSEY CAMP Location: Co. GRANT State NM

Sec. 15, 3223 Twp. 15S R. 15W ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 6075 FT Quad. DORSEY RANCH

Sampler JL + KG

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

DESCRIPTION:

WATER TEMP. °C 15.5° C DISCHARGE SEEP gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. 23.0° C DEPTH _____

ODOR NONE BORE _____

FLUID COLOR CLEAR PUMP TYPE _____

FLUID TASTE GOOD STATIC HEAD _____

BUBBLING NO SCALING _____

BOILING NO TYPE OF PIPING _____

VEGETATION GRASSES ARTESIAN HEAD _____

FLUID ISSUES FROM ALLUVIUM IN STREAM ROCK DATA:

CHANNEY TYPE (SURFACE) PHYOLITIC ASH FLOW TUFF

COLOR PINKISH

GRAIN SIZE 3 mm

MEGASCOPIC MINERALS QTZ, SANIDINE

SALT: NONE

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION NINE

SINTER: NONE RX TYPE (AT DEPTH) SAME

TYPE _____

WATER USED FOR IMMEDIATE AREA NOTHING

QUANTITY _____

USED FOR ABANDONED CAMP

COLOR _____

FORM _____

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. 14149 Date 8/13/80 Time 11:35 am

Name DORSEY SPRING Location: Co. GRANT State NM

Sec. 15, 1423 Twp. 16 S R. 15 W ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 5370 FT Quad. DORSEY RANCH

Sampler JL + KG

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

DESCRIPTION:

WATER TEMP. °C 19.5°C

DISCHARGE SEEP gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 27.0°C

DEPTH _____

ODOR NONE

BORE _____

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE YUMMY

STATIC HEAD _____

BUBBLING NO

SCALING _____

BOILING NO

TYPE OF PIPING _____

VEGETATION ABUNDANT ALGAE

ARTESIAN HEAD _____

FLUID ISSUES FROM _____

ROCK DATA:

TYPE (SURFACE) CONGLOMERATE

COLOR MEDIUM GRAY

GRAIN SIZE LITHIC FRAGMENTS UP TO 50 cm

MEGASCOPIC MINERALS LITHIC FRAGMENTS MOSTLY

INTERMEDIATE TO MAFIC VOLCANICS

SALT:

TYPE CaCO₃

QUANTITY VERY MINOR

COLOR WHITE

FORM STAIN IN STREAM CBBLES

ALTERATION NONE

SINTER: NONE

RX TYPE (AT DEPTH) SAME

TYPE _____

WATER USED FOR IMMEDIATE AREA GEOTHERMAL SAMPLING

QUANTITY _____

USED FOR NOTHING

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES _____



Photo WA 2-2

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14150 Date 7/25/80 Time 3:30pm

Name Aden Wells Location: Co. ^{Donna} Ana State N.M.

Sec. 25 Twp. 24S R. 3W ; 234 km/mi _____ OF _____

Lat. 32°12' Long. 107°6' Elevation 4560 Quad. Aden

Sampler WA

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

DESCRIPTION:

WATER TEMP. °C 23.5°C

DISCHARGE Variable gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 39°C

DEPTH ?

ODOR No

BORE 6"

FLUID COLOR Clear

PUMP TYPE sub-pump

FLUID TASTE Good

STATIC HEAD —

BUBBLING —

SCALING Along walls of tank

BOILING —

TYPE OF PIPING —

VEGETATION Yes

ARTESIAN HEAD —

FLUID ISSUES FROM well pumped by sub-pump

ROCK DATA: Porphyritic basaltic andesite + andesite
COLOR Med. to lt purplish grey

SALT: None

GRAIN SIZE ≤ 4mm

TYPE _____

MEGASCOPIC MINERALS plagioclase, hornblende, pyroxene

QUANTITY _____

COLOR _____

FORM _____

ALTERATION None visible

SINTER: None

RX TYPE (AT DEPTH) Same than alluvium?

TYPE _____

WATER USED FOR IMMEDIATE AREA USED FOR Cattle

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. 14151 Date 7/28/80 Time 10:30 AM

Name Cooks Spring Station Location: Co. Kuna State N.M.

Sec. 23 Twp. 21S R. 8W ; 3131 km/mi _____ OF _____

Lat. 32° 27.9' Long. 107° 38.8' Elevation 4910 Quad. Massacre Peak

Sampler WA

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

DESCRIPTION:

No flow visible. Water collected from cement pit found within a small building.

WATER TEMP. °C 21°C DISCHARGE ? gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 28°C

DEPTH _____

ODOR No

BORE _____

FLUID COLOR clear

PUMP TYPE _____

FLUID TASTE Good

STATIC HEAD _____

BUBBLING No

SCALING _____

BOILING No

TYPE OF PIPING _____

VEGETATION Yes

ARTESIAN HEAD _____

FLUID ISSUES FROM ? stream gravels?

ROCK DATA:

Stream gravels underlain by a crystal tuff

Volcanic rocks found in

TYPE (SURFACE) _____

nearby hills.

COLOR pinkish

SALT: None

GRAIN SIZE ≤ 3mm

TYPE _____

MEGASCOPIC MINERALS quartz, sanidine,

QUANTITY _____

hornblende, biotite

COLOR _____

FORM _____

ALTERATION None

SINTER: None

RX TYPE (AT DEPTH) Volcanic

TYPE _____

WATER USED FOR IMMEDIATE AREA None

QUANTITY _____

USED FOR _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



Photo WA2-4

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14152 Date 7/28/00 Time 3:00 PM

Name Fryingpan Spring Location: Co. Luna State N.M.

Sec. 20 Twp. T21S R. R8W ; 4342 km/mi _____ OF _____

Lat. 32°27.5' Long. 107°41.3' Elevation 4995' Quad. Massacre Peak

Sampler WA

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

DESCRIPTION:

WATER TEMP. °C 26°C

DISCHARGE seep gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 40°C

DEPTH _____

ODOR No

BORE _____

FLUID COLOR Clear

PUMP TYPE _____

FLUID TASTE Good

STATIC HEAD _____

BUBBLING No

SCALING _____

BOILING No

TYPE OF PIPING _____

VEGETATION Yes

ARTESIAN HEAD _____

FLUID ISSUES FROM Stream

ROCK DATA:

gravels - Perhaps also through rock fractures

TYPE (SURFACE) Volcanic tuff

COLOR sediments.

SALT: None
TYPE _____

GRAIN SIZE 1/2 grey to deep purple red. Also
MEGASCOPIC MINERALS _____

QUANTITY _____

tuff breccias, andesite, and basaltic dikes (?)

COLOR _____

ALTERATION None visible.

FORM _____

RX TYPE (AT DEPTH) Volcanic?

SINTER: None
TYPE _____

WATER USED FOR IMMEDIATE AREA Cattle
USED FOR _____

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Circulating meteorite etc

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



Photo WA2-5

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14153 Date 7/29/80 Time 4:15 PM

Name Miller Windmill Location: Co. Luna State N.M.

Sec. 22 Twp. 22S R. 7W ; 2211 km/mi _____ OF _____

Lat. 32° 23.3' Long. 107° 33' Elevation 4385' Quad. Florida

Sampler WA

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

DESCRIPTION:

WATER TEMP. °C 26.5°C

DISCHARGE Variable gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 39.5°C

DEPTH ?

ODOR No

BORE 6"

FLUID COLOR Clear

PUMP TYPE Wind-driven

FLUID TASTE Good

STATIC HEAD -

BUBBLING No

SCALING minor near outlet

BOILING No

TYPE OF PIPING -

VEGETATION -

ARTESIAN HEAD -

FLUID ISSUES FROM pipe connected to wind-driven pump.

ROCK DATA:

TYPE (SURFACE) Alluvium

COLOR tan

SALT: None
TYPE _____

GRAIN SIZE _____
MEGASCOPIC _____
MINERALS _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION None visible

SINTER: None
TYPE _____

RX TYPE (AT DEPTH) Volcanics

QUANTITY _____

COLOR _____

FORM _____

WATER USED FOR IMMEDIATE AREA Cattle
USED FOR _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION -

PROPERTY OWNED BY Nun Ranch (?)

PREVIOUS AND/OR CURRENT LEASES _____



Photo WA2-6

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14154 Date 7/30/80 Time 10:00 AM

Name Well Location: Co. Luna State N.M.

Sec. 34 Twp. 22S R. 8W : 4332 km/mi _____ OF _____

Lat. 32° 20.7' Long. 107° 39.5' Elevation 4400 Quad. Deming East

Sampler WA

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

DESCRIPTION:

WATER TEMP. °C 23°C

DISCHARGE Variable gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 33°C

DEPTH ?

ODOR No

BORE Casing buried

FLUID COLOR Clear

PUMP TYPE Wind-driven

FLUID TASTE OK

STATIC HEAD -

BUBBLING No

SCALING Minor

BOILING No

TYPE OF PIPING -

VEGETATION Yes

ARTESIAN HEAD -

FLUID ISSUES FROM pipe connected

ROCK DATA:

to a pumping wind

TYPE (SURFACE) Alluvium

mill

COLOR May be underlain

SALT: None

GRAIN SIZE MEGASCOPIC MINERALS by purplish grey intermediate

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION None visible

SINTER: None

RX TYPE (AT DEPTH) Volcanics?

TYPE _____

WATER USED FOR IMMEDIATE AREA USED FOR Cattle

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC. GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES _____



Photo WA 2-7

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14155 Date 7/30/80 Time 10:30 AM

Name _____ Location: Co. Luna State N.M.

Sec. 34 Twp. 22S R. 8W ; 4131 km/mi _____ OF _____

Lat. 32° 20.9' Long. 107° 39.6' Elevation 4417 Quad. Deming, East

Sampler WA

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

DESCRIPTION:

WATER TEMP. °C 27°C

DISCHARGE Variable gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 34°C

DEPTH ?

ODOR No

BORE 4"

FLUID COLOR Clear

PUMP TYPE Wind-driven

FLUID TASTE Good

STATIC HEAD -

BUBBLING -

SCALING Minor

BOILING -

TYPE OF PIPING -

VEGETATION Yes

ARTESIAN HEAD -

FLUID ISSUES FROM pipe connected

ROCK DATA:

to pumping windmill

TYPE (SURFACE) Alluvium

COLOR Intermediate

SALT: None

GRAIN SIZE volcanics at

TYPE _____

MEGASCOPIC MINERALS depth

QUANTITY _____

COLOR _____

FORM _____

ALTERATION None Visible

SINTER: None

RX TYPE (AT DEPTH) Intermediate

TYPE _____

WATER USED FOR IMMEDIATE AREA Volcanics (sand?)

QUANTITY _____

COLOR _____

USED FOR Cattle

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



Photo WA 2-8

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14156 Date 7/30/80 Time 1:00 PM
Name Badger Windmill Location: Co. Hidalgo State N.M.
Sec. 29 Twp. 30S R. 14W ; 141 km/mi _____ OF _____
Lat. 31° 40.5' Long. 108° 17.5' Elevation 4253 Quad. Big Hatched Peak
Sampler WA

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

DESCRIPTION:

WATER TEMP. °C 27.5°C (max) DISCHARGE Variable gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 38°C

DEPTH ?

ODOR No

BORE 6" casing

FLUID COLOR Clear

PUMP TYPE Wind-driven jack pump

FLUID TASTE Good

STATIC HEAD -

BUBBLING No

SCALING No to minor

BOILING No

TYPE OF PIPING -

VEGETATION Yes

ARTESIAN HEAD -

FLUID ISSUES FROM pipe connected to wind-driven pump

ROCK DATA:

TYPE (SURFACE) Alluvium on

COLOR surface

SALT:

None

GRAIN SIZE MEGASCOPIC MINERALS _____

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION None Visible

SINTER:

None

RX TYPE (AT DEPTH) Sediments? Exposed

TYPE _____

WATER USED FOR IMMEDIATE AREA USED FOR in Big Hatched mtns.

QUANTITY _____

COLOR _____

Cattle.

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY Everhart Ranch

PREVIOUS AND/OR CURRENT LEASES _____



Photo WA2-9

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14157 Date 7/30/80 Time 1:30 PM

Name Well Location: Co. Hidalgo State N.M.

Sec. 2 Twp. 31S R. 14W ; 232 km/mi _____ OF _____

Lat. 31° 38.5' Long. 108° 14' Elevation 4185 Quad. Big Hatchet Peak

Sampler WA

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

DESCRIPTION:

WATER TEMP. °C 20°C

DISCHARGE Variable gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 40°C

DEPTH ?

ODOR None

BORE 6"

FLUID COLOR Clear

PUMP TYPE Wind driven

FLUID TASTE Good

STATIC HEAD -

BUBBLING No

SCALING on outlet and in the tank

BOILING No

TYPE OF PIPING -

VEGETATION Yes

ARTESIAN HEAD -

FLUID ISSUES FROM pipe connected to wind-driven pump

ROCK DATA:

TYPE (SURFACE) Alluvium

COLOR -

GRAIN SIZE MEGASCOPIC MINERALS -

SALT: None

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION None visible lithified

SINTER: None

RX TYPE (AT DEPTH) Sediments ??

TYPE _____

WATER USED FOR IMMEDIATE AREA USED FOR Cattle

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION -

PROPERTY OWNED BY Everhart Ranch

PREVIOUS AND/OR CURRENT LEASES _____



Photo WA 2-10

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14158 Date 7/30/80 Time 3:00 PM
Name Doyle's Well Location: Co. Hidalgo State N.M.
Sec. 23 Twp. 29S R. 14W ; 1432 km/mi _____ OF _____
Lat. 31° 46.4' Long. 108° 14.3' Elevation 4773 Quad. Victoria Ranch
Sampler WA

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

DESCRIPTION:

WATER TEMP. °C 25.5°C DISCHARGE Variable gpm/Lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. 38°C DEPTH ?
ODOR No BORE 6"
FLUID COLOR Clear PUMP TYPE Wind driven
FLUID TASTE OK STATIC HEAD -
BUBBLING No SCALING on outlet + intake
BOILING No TYPE OF PIPING -
VEGETATION Yes ARTESIAN HEAD -
FLUID ISSUES FROM pipe connected to pumping windmill ROCK DATA:
TYPE (SURFACE) Alluvium
COLOR _____
GRAIN SIZE MEGASCOPIIC MINERALS _____
SALT: None ALTERATION None visible
TYPE _____ RX TYPE (AT DEPTH) intermed. volcanics
QUANTITY _____ WATER USED FOR IMMEDIATE AREA USED FOR Cattle
COLOR _____
FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR
PROBABLE CAUSE OF MANIFESTATION _____
PROPERTY OWNED BY _____
PREVIOUS AND/OR CURRENT LEASES _____



Photo WA 2-11

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14159 Date 8/2/80 Time 11:45
Name Government Spring Location: Co. Grant State N.M.
Sec. Unsurveyed Twp. 17S R. 9W ; _____ km/mi _____ OF _____
Lat. 32°49' Long. 107°46.5' Elevation 7440 Quad. San Lorenzo
Sampler WA + BH

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

DESCRIPTION:

WATER TEMP. °C 17°C DISCHARGE Seep gpm/Lpm
GROUND TEMP. °C - WELL DATA:
AIR TEMP. - DEPTH _____
ODOR No BORE _____
FLUID COLOR Clear PUMP TYPE _____
FLUID TASTE None STATIC HEAD _____
BUBBLING No SCALING _____
BOILING No TYPE OF PIPING _____
VEGETATION Yes ARTESIAN HEAD _____

FLUID ISSUES FROM Soil overlying fractured limestone ROCK DATA:
TYPE (SURFACE) Limestone
COLOR med-lt. grey

SALT: None GRAIN SIZE _____
TYPE _____ MEGASCOPIC MINERALS _____
QUANTITY _____
COLOR _____
FORM _____ ALTERATION None visible

SINTER: None RX TYPE (AT DEPTH) Some
TYPE _____ WATER USED FOR IMMEDIATE AREA None
QUANTITY _____ USED FOR _____
COLOR _____
FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Meteoric H₂O moving down creek beds?
PROPERTY OWNED BY Gila Nation Forest
PREVIOUS AND/OR CURRENT LEASES _____



Photo WA 2-12 to be thrown out

Photo WA 2-13

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14160 Date 8/14/80 Time 11:00

Name Well Location: Co. Luna State _____

Sec. 14 Twp. 27S R. 10W ; 4444 km/mi _____ OF _____

Lat. 32° 56' Long. 107° 49.4' Elevation 4238 Quad. West Lime Hills

Sampler WA

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

pumping steadily

DESCRIPTION:

WATER TEMP. °C 28°C

DISCHARGE Variable gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 25°C

DEPTH at least 55m

ODOR Sulphur

BORE 6"

FLUID COLOR clear

PUMP TYPE Wind driven

FLUID TASTE bad

STATIC HEAD -

BUBBLING No

SCALING minor

BOILING No

TYPE OF PIPING -

VEGETATION Yes (around tank)

ARTESIAN HEAD -

FLUID ISSUES FROM pipe connected

ROCK DATA:

to wind-driven pump.

TYPE (SURFACE) Alluvium

COLOR -

SALT: None

GRAIN SIZE -

TYPE _____

MEGASCOPIC MINERALS -

QUANTITY _____

COLOR _____

FORM _____

ALTERATION None visible

SINTER: None

RX TYPE (AT DEPTH) Volcanics?

TYPE _____

WATER USED FOR IMMEDIATE AREA cattle

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



Photo WAZ-14

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14161 Date 8/14/80 Time 3:00 PM

Name Scott Well Location: Co. Luna State N.M.

Sec. 8 Twp. 29S R. 10W ; 322 km/mi _____ OF _____

Lat. 31°48' Long. 107°53' Elevation 4220 Quad. Hermones

Sampler W.A.

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

DESCRIPTION:

WATER TEMP. °C 24°C

DISCHARGE 150 ^(Variable) gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 33°C

DEPTH ?

ODOR No

BORE ?

FLUID COLOR Clear

PUMP TYPE Sub-pump

FLUID TASTE Good

STATIC HEAD -

BUBBLING -

SCALING minor

BOILING -

TYPE OF PIPING iron + plastic

VEGETATION Yes

ARTESIAN HEAD -

FLUID ISSUES FROM pipe connected to sub-pump

ROCK DATA:

TYPE (SURFACE) Alluvium

COLOR Red-brown

SALT:

TYPE None

GRAIN SIZE MEGASCOPIC MINERALS _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION None visible

SINTER:

TYPE None

RX TYPE (AT DEPTH) Volcanics?

QUANTITY _____

COLOR _____

FORM _____

WATER USED FOR IMMEDIATE AREA USED FOR irrigation

QUALITY OF SAMPLE: EXC. GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



Photo WA 2-15

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14162 Date 8/14/80 Time 4:00 Pm

Name Well Location: Co. Luna State N.M.

Sec. 9 Twp. 29S R. 9W ; 2343 km/mi _____ OF _____

Lat. 31°48' Long. 107°45.7' Elevation 4330 Quad. Melpais Hill

Sampler W.A.

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

DESCRIPTION:

WATER TEMP. °C 28.5°C

DISCHARGE 100 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 31°C

DEPTH ?

ODOR No

BORE ?

FLUID COLOR Clear

PUMP TYPE Electric irrigation pump

FLUID TASTE Good

STATIC HEAD —

BUBBLING No

SCALING Minor

BOILING No

TYPE OF PIPING —

VEGETATION Yes

ARTESIAN HEAD —

FLUID ISSUES FROM pipe connected to electric irrigation pump

ROCK DATA:

TYPE (SURFACE) Alluvium

COLOR red-brown

SALT: None
TYPE _____

GRAIN SIZE _____
MEGASCOPIC MINERALS _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION None visible

SINTER: None
TYPE _____

RX TYPE (AT DEPTH) Volcanic??

QUANTITY _____

COLOR _____

FORM _____

WATER USED FOR IMMEDIATE AREA USED FOR Irrigation

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



Photo WA2-16

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14163 Date 8/18/80 Time 4:30 Pm

Name Swope Well Location: Co. Luna State N.M

Sec. 21 Twp. 27 S R. 9 W ; 3441 km/mi _____ OF _____

Lat. 31° 56.4' Long. 107° 46' Elevation 4410 Quad. West Lime Hills

Sampler WA

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

DESCRIPTION:

WATER TEMP. °C 29°C

DISCHARGE 6 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. ~ 31°C

DEPTH 116 m

ODOR No

BORE ~ 5"

FLUID COLOR Clear

PUMP TYPE jack-pump

FLUID TASTE Good

STATIC HEAD -

BUBBLING No

SCALING in tank + outlet

BOILING No

TYPE OF PIPING -

VEGETATION Yes

ARTESIAN HEAD -

FLUID ISSUES FROM pipe connected

ROCK DATA:

to pumping jack-

TYPE (SURFACE) Alluvium

pump

COLOR tan

SALT: None

GRAIN SIZE _____
MEGASCOPIC _____
MINERALS _____

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION None visible

SINTER: None

RX TYPE (AT DEPTH) Granite

TYPE _____

WATER USED FOR _____
IMMEDIATE AREA _____
USED FOR Cattle

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION ?

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



K9 1518

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14170 Date 8-5-80 Time 10:45

Name Slaughterhouse Spring Location: Co. Canon State NM

Sec. 6-d Twp. 11S R. 19W ; km/mi _____ OF _____

Lat. 33° 22.5' Long. 108° 52.5' Elevation 6190 Quad. Mogallon

Sampler BH + K9

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

DESCRIPTION:

WATER TEMP. °C 18 (solar) DISCHARGE seep gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. 30 DEPTH _____

ODOR none BORE _____

FLUID COLOR light green PUMP TYPE _____

FLUID TASTE good STATIC HEAD _____

BUBBLING _____ SCALING _____

BOILING _____ TYPE OF PIPING _____

VEGETATION green algae ARTESIAN HEAD _____

FLUID ISSUES FROM fractures ROCK DATA:

in basalt TYPE (SURFACE) Andesitic Basalt

COLOR red black

GRAIN SIZE fine
MEGASCOPIC MINERALS plagioclase,

quartz, hematite

very fractures

ALTERATION some chlorite epidote

RX TYPE (AT DEPTH) basaltic

SALT:

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

SINTER:

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

WATER USED FOR IMMEDIATE AREA USED FOR Forest service

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION metabolic

PROPERTY OWNED BY Forest Service

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14171 Date 8-5-80 Time 12:30pm

Name Cold Springs - U Location: Co. Calson State N Mex

Sec. 3 Twp. 11S R. 18W; Center of Bottom half km/mi OF _____

Lat. 33° 22' Long. 108 41 Elevation _____ Quad. Forest Service Map

Sampler Gillespie & BA

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

DESCRIPTION:

WATER TEMP. °C 3.5°C very cold

DISCHARGE 20 Lpm gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 24

DEPTH _____

ODOR None

BORE _____

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE GREAT

STATIC HEAD _____

BUBBLING No

SCALING _____

BOILING No

TYPE OF PIPING _____

VEGETATION YES

ARTESIAN HEAD _____

FLUID ISSUES FROM Alv on hill side

ROCK DATA:

TYPE (SURFACE) Alv - Basalt Andes - Volcanics

COLOR _____

SALT:

GRAIN SIZE _____
MEGASCOPIC MINERALS _____

TYPE NO

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) Volcanics

TYPE NO

WATER USED FOR IMMEDIATE AREA Nothing
USED FOR Nothing

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION SEEP

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



No PHOTO

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14172 Date 8-9-80 Time 12:00
Name Burro Spring Location: Co. Grant State NM
Sec. 30 Twp. 19S R. 16W ; km/mi _____ OF _____
Lat. 32° 30' Long. 108° 45' Elevation 5,800 Quad. Redrock 15'
Sampler KJ

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

DESCRIPTION:

WATER TEMP. °C 22°C DISCHARGE 40 gpm/Lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. 31 DEPTH _____
ODOR none BORE _____
FLUID COLOR light brown PUMP TYPE _____
FLUID TASTE and none STATIC HEAD _____
BUBBLING - SCALING _____
BOILING - TYPE OF PIPING _____
VEGETATION grass ARTESIAN HEAD _____
FLUID ISSUES FROM fractures ROCK DATA:
in granite

TYPE (SURFACE) coarse granodiorite
COLOR gray + black

SALT: TYPE _____ GRAIN SIZE coarse
QUANTITY _____ MEGASCOPIC MINERALS quartz,

COLOR _____ FORM _____ ALTERATION copper staining, chlorite + epidote

SINTER: RX TYPE (AT DEPTH) granodiorite
TYPE _____ WATER USED FOR IMMEDIATE AREA cattle

QUANTITY _____ USED FOR Forest service
COLOR _____

FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION meteoric
PROPERTY OWNED BY Forest Service
PREVIOUS AND/OR CURRENT LEASES _____

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14173 Date 8/14/60 Time 12:55pm

Name VNAMED WELL @ TRAILER PARK Location: Co. LUNA State NM

Sec. 24, 22/4 Twp. 21S R. 11W ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 4790 Quad. SPALDING

Sampler JL + KG

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

DESCRIPTION:

WATER TEMP. °C 16.5°c DISCHARGE VARIABLE gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. 24.0°c DEPTH 120 ft.

ODOR NONE BORE 5 IN.

FLUID COLOR CLEAR PUMP TYPE WINDMILL

FLUID TASTE GOOD STATIC HEAD H₂O @ 35 FT

BUBBLING NO SCALING CaCO₃

BOILING No TYPE OF PIPING BLACK PLASTIC

VEGETATION ALGAE IN CEMENT TANK ARTESIAN HEAD ND

FLUID ISSUES FROM PIPE FROM WINDMILL ROCK DATA:

TYPE (SURFACE) SANDY (sd)

COLOR MEDIUM REDDISH BROWN

GRAIN SIZE MEDIUM GRAINED
MEGASCOPIC MINERALS _____

SALT:

TYPE CaCO₃

QUANTITY MODERATE

COLOR WHITE

FORM ENCrustation ON PIPE ALTERATION NONE

SINTER: No RX TYPE (AT DEPTH) JAME

TYPE _____ WATER USED FOR IMMEDIATE AREA TROUT POND

QUANTITY _____ USED FOR TRAILER PARK

COLOR _____

FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY JOHN PERRIN

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14-174 Date 8-14-80 Time 2:30

Name Windmill No. 5 Location: Co. Luna State NM

Sec. 24 Twp. 22S R. 11W ; _____ km/mi _____ OF _____

Lat. 32° 22' 30" Long. 108° Elevation 4595 Quad. Spalding

Sampler JL + KG

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

DESCRIPTION:

WATER TEMP. °C 24

DISCHARGE variable gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 28

DEPTH _____

ODOR none

BORE _____

FLUID COLOR clear

PUMP TYPE _____

FLUID TASTE good

STATIC HEAD _____

BUBBLING -

SCALING _____

BOILING -

TYPE OF PIPING _____

VEGETATION grass

ARTESIAN HEAD _____

FLUID ISSUES FROM aquifer

ROCK DATA:

TYPE (SURFACE) sandy gal

COLOR gray brown

GRAIN SIZE medium

MEGASCOPIC MINERALS -

SALT: NONE

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION none

SINTER: NONE

RX TYPE (AT DEPTH) gal

TYPE _____

WATER USED FOR cattle

QUANTITY _____

IMMEDIATE AREA

USED FOR ranch

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC. GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION aquifer

PROPERTY OWNED BY Tony Salopek

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14190 Date 8-5-80 Time 2:15

Name Eckleberger Spring Location: Co. Catron State NM

Sec. 32 Twp. 8S R. 16W ; _____ km/mi _____ OF _____

Lat. 33° 34' Long. 108 31 Elevation _____ Quad. TELEPHONE CANYON
Gila Forest Service

Sampler BH KC

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

DESCRIPTION:

WATER TEMP. °C 11°c DISCHARGE 50 gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. 17°c DEPTH _____

ODOR none BORE _____

FLUID COLOR clear PUMP TYPE _____

FLUID TASTE good STATIC HEAD _____

BUBBLING - SCALING _____

BOILING - TYPE OF PIPING _____

VEGETATION green plants ARTESIAN HEAD _____

FLUID ISSUES FROM fractures in ROCK DATA:

basalt TYPE (SURFACE) vesicular basalt

COLOR black

GRAIN SIZE fine

MEGASCOPIC MINERALS pyroxene

SALT:

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

quartz in vugs

red-brown weathering

ALTERATION none

SINTER:

RX TYPE (AT DEPTH) basalt

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

WATER USED FOR _____

IMMEDIATE AREA _____

USED FOR Forest Service

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION meteoric

PROPERTY OWNED BY Forest Service

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14191 Date 8-5-80 Time 4:00

Name Turkey Spring Location: Co. Carson State NM

Sec. 22 Twp. 8S R. 16W ; _____ km/mi _____ OF _____

Lat. 33 35 Long. 108 28 Elevation 8000 Quad. PITCHPOCK CANYON 7.5
Silva Nat. Forest

Sampler Bill Huntsman

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

DESCRIPTION:

WATER TEMP. °C 13°C

DISCHARGE _____ gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 21

DEPTH _____

ODOR none

BORE _____

FLUID COLOR clear

PUMP TYPE _____

FLUID TASTE good

STATIC HEAD _____

BUBBLING -

SCALING _____

BOILING -

TYPE OF PIPING _____

VEGETATION green plants

ARTESIAN HEAD _____

FLUID ISSUES FROM fractures

ROCK DATA:

in basalt

TYPE (SURFACE) basalt - vesicular

COLOR black - brown weathering

SALT:

GRAIN SIZE fine

TYPE NONE

MEGASCOPIC MINERALS pyroxene?

QUANTITY _____

Some quartz in vugs

COLOR _____

FORM _____

ALTERATION none

SINTER:

RX TYPE (AT DEPTH) basalt

TYPE _____

WATER USED FOR IMMEDIATE AREA cattle

QUANTITY _____

USED FOR _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION meteoric

PROPERTY OWNED BY private?

PREVIOUS AND/OR CURRENT LEASES _____



no photo

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14192 Date 8-5-80 Time 5:00

Name Davis Spring Location: Co. Catron State NM

Sec. 15 Twp. 7S R. 16W ; km/mi _____ OF _____

Lat. 33° 42' Long. 108° 30' Elevation _____ Quad. FOREST SERVICE MAP

Sampler Huntman

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

DESCRIPTION:

WATER TEMP. °C 15° DISCHARGE 3 gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. 20 DEPTH _____

ODOR none BORE _____

FLUID COLOR clear PUMP TYPE _____

FLUID TASTE slightly salty STATIC HEAD _____

BUBBLING _____ SCALING _____

BOILING - TYPE OF PIPING _____

VEGETATION green plants ARTESIAN HEAD _____

FLUID ISSUES FROM fractures in ROCK DATA:

basalt TYPE (SURFACE) basalt

COLOR black

GRAIN SIZE fine

MEGASCOPIC MINERALS vugs

SALT:

TYPE _____

QUANTITY _____

COLOR _____

FORM _____ ALTERATION none

SINTER: RX TYPE (AT DEPTH) basalt

TYPE _____ WATER USED FOR cattle

QUANTITY _____ IMMEDIATE AREA USED FOR forest

COLOR _____

FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION meteoric

PROPERTY OWNED BY Forest Service

PREVIOUS AND/OR CURRENT LEASES _____

no photo

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14193 Date 8-5-80 Time 5:15
 Name Dutchman Spring Location: Co. Catron State NM
 Sec. 3 Twp. 7S R. 16W ; _____ km/mi _____ OF _____
 Lat. 33°45' Long. 108 30 Elevation _____ Quad. Forest Service MAP
 Sampler Huntsman

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

DESCRIPTION:

WATER TEMP. °C	<u>12</u>	DISCHARGE	<u>Seep</u>	gpm/Lpm
GROUND TEMP. °C	_____	WELL DATA:		
AIR TEMP.	<u>18</u>	DEPTH	_____	
ODOR	<u>none</u>	BORE	_____	
FLUID COLOR	<u>clear</u>	PUMP TYPE	_____	
FLUID TASTE	<u>okay</u>	STATIC HEAD	_____	
BUBBLING	<u>-</u>	SCALING	_____	
BOILING	<u>-</u>	TYPE OF PIPING	_____	
VEGETATION	<u>green plants</u>	ARTESIAN HEAD	_____	
FLUID ISSUES FROM	<u>fractures in</u>	ROCK DATA:		
	<u>basalt</u>	TYPE (SURFACE)	<u>vesicular basalt</u>	
		COLOR	<u>black</u>	
SALT:		GRAIN SIZE	<u>fine</u>	
TYPE	_____	MEGASCOPIC MINERALS	<u>ugs</u>	
QUANTITY	_____			
COLOR	_____			
FORM	_____	ALTERATION	<u>None</u>	
SINTER:		RX TYPE (AT DEPTH)	<u>basalt</u>	
TYPE	_____	WATER USED FOR IMMEDIATE AREA	<u>-</u>	
QUANTITY	_____	USED FOR	<u>Forest</u>	
COLOR	_____			
FORM	_____	QUALITY OF SAMPLE: EXC., <u>GOOD</u> , POOR		

PROBABLE CAUSE OF MANIFESTATION metreoric
 PROPERTY OWNED BY U.S. Forest Service
 PREVIOUS AND/OR CURRENT LEASES _____

BH 3-6

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14194 Date 8-6-80 Time 10:45AM

Name PUEBLO Spring Location: Co Catron State N MEX

Sec. 24 Twp. 8 S R. 21 W ; SW ^{corner} km/mi unassigned

Lat. 33° 36' Long. 109° 57' Elevation 6200 Quad. SALIZ PASS 7.5

Sampler Huntsman

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

DESCRIPTION:

WATER TEMP. °C 14°C DISCHARGE 5-8 LPM gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. 28 DEPTH _____

ODOR NONE BORE _____

FLUID COLOR CLEAR PUMP TYPE _____

FLUID TASTE No Taste - water not safe for drinking STATIC HEAD _____

BUBBLING no SCALING _____

BOILING no TYPE OF PIPING _____

VEGETATION yes ARTESIAN HEAD _____

FLUID ISSUES FROM Seeps - cemented ROCK DATA:

by forest Service TYPE (SURFACE) Alt of Volcanics

COLOR Red Pink

SALT: GRAIN SIZE _____

TYPE None MEGASCOPIC MINERALS _____

QUANTITY _____

COLOR _____

FORM _____ ALTERATION No

SINTER: RX TYPE (AT DEPTH) _____

TYPE None WATER USED FOR IMMEDIATE AREA NOTHING

QUANTITY _____ USED FOR Camp Ground

COLOR _____

FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION maybe surface seeps

PROPERTY OWNED BY U.S.F.S.

PREVIOUS AND/OR CURRENT LEASES _____



BH 3-7

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14195 Date 8-6-80 Time 12:20 PM
 Name Johnson Canyon Spring Location: Co. Catron State N MEX
 Sec. 28 Twp. 7S R. 21W : NE/NW km/mi _____ OF _____
 Lat. 33° 41' Long. 109° 00' Elevation UNCERTAIN Quad. BLUE- Ariz
 Sampler Huntsman

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

DESCRIPTION:

WATER TEMP. °C 70C DISCHARGE 2-3 LPM gpm/Lpm
 GROUND TEMP. °C _____ WELL DATA:
 AIR TEMP. 28 DEPTH _____
 ODOR NONE BORE _____
 FLUID COLOR CLEAR PUMP TYPE _____
 FLUID TASTE GREAT STATIC HEAD _____
 BUBBLING NO SCALING _____
 BOILING NO TYPE OF PIPING _____
 VEGETATION None ARTESIAN HEAD _____
 FLUID ISSUES FROM UNDER CEMENT BOX ROCK DATA:

TYPE (SURFACE) ANDESITE
 COLOR _____

SALT:

TYPE NONE GRAIN SIZE _____
 QUANTITY _____ MEGASCOPIC _____
 COLOR _____ MINERALS _____
 FORM _____ ALTERATION NONE

SINTER:

TYPE NONE RX TYPE (AT DEPTH) _____
 QUANTITY _____ WATER USED FOR _____
 COLOR _____ IMMEDIATE AREA _____
 FORM _____ USED FOR _____
 QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Seep
 PROPERTY OWNED BY U.S. FS-
 PREVIOUS AND/OR CURRENT LEASES _____



BH 3-8

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14796 Date 8-6-80 Time 2:30pm

Name WOT LEGGETT SPRING Location: Co Catron State N MEX

Sec. 15 Twp. 7S R. 20W SE/NW km/mi _____ OF _____

Lat. 33° 42' Long 108° 53' Elevation 6880 Quad Bull Basin 7.5

Sampler Huntsman

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

DESCRIPTION:

WATER TEMP. °C 22°C

DISCHARGE 30 Lpm + gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 30°

DEPTH _____

ODOR None

BORE _____

FLUID COLOR Clear

PUMP TYPE _____

FLUID TASTE Good

STATIC HEAD _____

BUBBLING No

SCALING _____

BOILING No

TYPE OF PIPING _____

VEGETATION Yes

ARTESIAN HEAD _____

FLUID ISSUES FROM Cement box on

ROCK DATA:

side of hill -

TYPE (SURFACE) Volcanic*

COLOR _____

SALT:

GRAIN SIZE _____

TYPE No

MEGASCOPIC _____

MINERALS biotite

QUANTITY _____

COLOR _____

FORM _____

ALTERATION None

SINTER:

RX TYPE (AT DEPTH) _____

TYPE No

WATER USED FOR Nothing

QUANTITY _____

IMMEDIATE AREA _____

USED FOR Lumber

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Seepage

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____

* intrusives & extrusives - andisited basalt Granite



BH 3-9

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14197 Date 8-7-80 Time 10:40 AM

Name Adair Springs Location: Co. CATRON State N MEX

Sec. 18 Twp. 6s R. 20w ; SE/SE km/mi _____ OF _____

Lat. 33°46' Long. 108°56' Elevation 7200 Quad. LUNA 7.5

Sampler SHENKER

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

DESCRIPTION:

WATER TEMP. °C 140

DISCHARGE 10 Lpm + gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH _____

ODOR NONE

BORE _____

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE NONE

STATIC HEAD _____

BUBBLING NO

SCALING _____

BOILING NO

TYPE OF PIPING _____

VEGETATION Abund

ARTESIAN HEAD _____

FLUID ISSUES FROM Seeps under layered

ROCK DATA:

Tuffs & Volcanics - Close to water table in

TYPE (SURFACE) Volcanics, Tuffs

stream

COLOR Pink

SALT:

GRAIN SIZE _____
MEGASCOPIC MINERALS _____

TYPE NO

QUANTITY _____

COLOR _____

FORM _____

ALTERATION NO

SINTER:

RX TYPE (AT DEPTH) _____

TYPE NO

WATER USED FOR IMMEDIATE AREA USED FOR _____

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION fractures, meteoric, flows along bedding planes

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



BH₃-10

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14198 Date 8-7-80 Time 11:20 AM

Name Engineer Spring (cold) Location: Co. Patron State N.M.

Sec. NE/NW 35 Twp. 58 R. 21W ; km/mi _____ OF _____

Lat. _____ Long. _____ Elevation ? _____ Quad. Alpine 15'

Sampler Huntsman

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

DESCRIPTION:

WATER TEMP. °C 12°C

DISCHARGE 10 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 26°C

DEPTH _____

ODOR none

BORE _____

FLUID COLOR clear

PUMP TYPE _____

FLUID TASTE good

STATIC HEAD _____

BUBBLING no

SCALING _____

BOILING no

TYPE OF PIPING _____

VEGETATION abundt.

ARTESIAN HEAD _____

FLUID ISSUES FROM 1" pipe and box, from tuffaceous s.s.

ROCK DATA:

TYPE (SURFACE) tuffaceous s.s. &

COLOR agglomerate

GRAIN SIZE MEGASCOPIC MINERALS variable

SALT:

TYPE no ?

QUANTITY some deposit

COLOR on pipe

FORM _____

ALTERATION no

SINTER:

RX TYPE (AT DEPTH) same

TYPE _____

WATER USED FOR IMMEDIATE AREA USED FOR none

QUANTITY no

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION fractures in bedrock & water table

PROPERTY OWNED BY U.S.-F.S.

PREVIOUS AND/OR CURRENT LEASES none for G.T.



BH₃-11

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14199 Date 8-7-80 Time 1:00 PM

Name Big Spring (cold) Location: Co. Carson State NM

Sec. SE/NW 32 Twp. 5S R. 19W ; _____ km/mi _____ OF _____

Lat. 33° 50' Long. 108° 5' Elevation 6700' Quad. Dillon Mt. 7-5'

Sampler Huntsman

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

DESCRIPTION:

WATER TEMP. °C 17°C

DISCHARGE ~ 40 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 26°C

DEPTH _____

ODOR none

BORE _____

FLUID COLOR clear

PUMP TYPE _____

FLUID TASTE good

STATIC HEAD _____

BUBBLING slight

SCALING _____

BOILING no

TYPE OF PIPING _____

VEGETATION abundant

ARTESIAN HEAD _____

FLUID ISSUES FROM sand in bottom
of small pond.

ROCK DATA:

TYPE (SURFACE) rhyolitic ash and

COLOR agglomerate

GRAIN SIZE
MEGASCOPIC
MINERALS _____

SALT:

TYPE no

QUANTITY _____

COLOR _____

FORM _____

ALTERATION no

SINTER:

RX TYPE (AT DEPTH) some

TYPE _____

WATER USED FOR
IMMEDIATE AREA
USED FOR cattle?

QUANTITY no

COLOR _____

FORM _____

QUALITY OF SAMPLE, EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION ??

PROPERTY OWNED BY Private

PREVIOUS AND/OR CURRENT LEASES none for G.O.



BH₃-12

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14200 Date 8-7-80 Time 2:30 PM

Name Frisco Hot Spring (warm) Location: Co. Catron State N.M.

Sec. NW/4 35 Twp. 5S R. 19W ; _____ km/mi _____ OF _____

Lat. 33° 50' Long. 108° 41' 30" Elevation 6580 Quad. Dillon Mountain 7.5

Sampler Shrenker

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

DESCRIPTION:

WATER TEMP. °C 37°C

DISCHARGE 3 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 28°C

DEPTH _____

ODOR none

BORE _____

FLUID COLOR clear

PUMP TYPE _____

FLUID TASTE good

STATIC HEAD _____

BUBBLING very slightly

SCALING _____

BOILING no

TYPE OF PIPING _____

VEGETATION green algae

ARTESIAN HEAD _____

FLUID ISSUES FROM cement tank

ROCK DATA:

in draw above river.

TYPE (SURFACE) Volcanic mudstones &

COLOR conglomerates

SALT:

GRAIN SIZE _____
MEGASCOPIC MINERALS _____

TYPE slight CaCO₃

QUANTITY _____

COLOR white

FORM crust on cement

ALTERATION no

SINTER:

RX TYPE (AT DEPTH) _____

TYPE _____

WATER USED FOR IMMEDIATE AREA bathing
USED FOR "

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY U.S. F.S.

PREVIOUS AND/OR CURRENT LEASES possibly see 34 to west ??



BH3-13

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14201 Date 8-7-80 Time 4:00

Name Funderburg Spr. (cold) Location: Co. Catron State NM

Sec. SE/SE 12 Twp. 5S R. 20W ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 6760' Quad. Centerfire Bog 7.5'

Sampler Shenker & Huntsman

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

DESCRIPTION:

WATER TEMP. °C 11°C

DISCHARGE ~5 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 20°C

DEPTH _____

ODOR none

BORE _____

FLUID COLOR clear

PUMP TYPE _____

FLUID TASTE good

STATIC HEAD _____

BUBBLING no

SCALING _____

BOILING no

TYPE OF PIPING _____

VEGETATION abundant

ARTESIAN HEAD _____

FLUID ISSUES FROM soil bank just above or in bedrock

ROCK DATA:

TYPE (SURFACE) volcanic s.s. and

COLOR conglomerate

SALT:

GRAIN SIZE _____
MEGASCOPIC MINERALS _____

TYPE NO

QUANTITY _____

COLOR _____

FORM _____

ALTERATION copper green

SINTER:

RX TYPE (AT DEPTH) volcanic

Silica TYPE chalcedony

WATER USED FOR IMMEDIATE AREA cattle

QUANTITY small

USED FOR "

COLOR grey

FORM veins in joints

QUALITY OF SAMPLE: EXC. GOOD POOR

PROBABLE CAUSE OF MANIFESTATION ? seep line?

PROPERTY OWNED BY U.S.F.S

PREVIOUS AND/OR CURRENT LEASES none for G.T.



BH₃-14

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14202 Date 8-9-80 Time 3:15 pm

Name Froggy Spring (cold) Location: Co. Sierra State N.M.

Sec. SE/SW/NE 9 Twp. 16S R. 7W ; km/mi _____ OF _____

Lat. _____ Long. _____ Elevation ~5400 Quad. Hillsboro

Sampler Huntsman

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

DESCRIPTION:

WATER TEMP. °C 18°C

DISCHARGE 1 LPM gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH _____

ODOR none

BORE _____

FLUID COLOR clear

PUMP TYPE _____

FLUID TASTE didn't taste

STATIC HEAD _____

BUBBLING no

SCALING _____

BOILING no

TYPE OF PIPING _____

VEGETATION abund't.

ARTESIAN HEAD _____

FLUID ISSUES FROM small cement

ROCK DATA:

tank with pipe.

TYPE (SURFACE) volcanic agglomerate

COLOR red

SALT:

GRAIN SIZE congl.

TYPE CaCO₃ ?

MEGASCOPIC MINERALS _____

QUANTITY slight

COLOR white buff

FORM crust

ALTERATION no

SINTER:

RX TYPE (AT DEPTH) same?

TYPE ?

WATER USED FOR IMMEDIATE AREA cattle

QUANTITY _____

USED FOR 4

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION ?

PROPERTY OWNED BY Vera Cunningham

PREVIOUS AND/OR CURRENT LEASES AMAX

W1000



011
077

B1 3-15

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W 14203 Date 8-10-80 Time 12:30 PM

Name STONE CORRAL SPRING Location: Co. GRANT State N MEX

Sec. 5 Twp. 21s R. 14w ; NE SW km/mi _____ OF _____

Lat. B2°30' Long. 108°17' Elevation 5560 Quad. WHITE SIGNAL

Sampler HUNTSMAN

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

DESCRIPTION:

WATER TEMP. °C 27°C Solar

DISCHARGE Seep gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH _____

ODOR NONE

BORE _____

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE TO MANY COWS

STATIC HEAD _____

BUBBLING '

SCALING _____

BOILING '

TYPE OF PIPING _____

VEGETATION Med

ARTESIAN HEAD _____

FLUID ISSUES FROM SEEPS in Drainage system

ROCK DATA:

TYPE (SURFACE) Sand Gravel

COLOR _____

SALT:

GRAIN SIZE
MEGASCOPIC
MINERALS _____

TYPE None

QUANTITY _____

COLOR _____

FORM _____

*Granite out crop 50 feet away -
fluids may come up along contact*

ALTERATION none

SINTER:

RX TYPE (AT DEPTH) Granite

TYPE None

WATER USED FOR IMMEDIATE AREA
USED FOR Cattle Ranch

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Surface Seeps of fluid along fault

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14204 Date 8/10/80 Time 3 pm

Name LA VIDA Spring Location: Co. Grant State NMEX

Sec. 28 Twp. 15W R. 19S ; sw/sw km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 6300 Quad. BURRO BEAN T5

Sampler Humbert

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

DESCRIPTION:

WATER TEMP. °C 17°C

DISCHARGE seep gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 28

DEPTH _____

ODOR NONE

BORE _____

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE OK

STATIC HEAD _____

BUBBLING no

SCALING _____

BOILING no

TYPE OF PIPING _____

VEGETATION Abundant

ARTESIAN HEAD _____

FLUID ISSUES FROM Hard to determine - over

ROCK DATA:

grown and w/ a cement pool - passable
seep - but above water table

TYPE (SURFACE) Granite

COLOR _____

SALT:

GRAIN SIZE
MEGASCOPIC
MINERALS _____

TYPE None

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) _____

TYPE None

WATER USED FOR IMMEDIATE AREA

QUANTITY _____

USED FOR Holy Water?
Copper mining

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION seep

PROPERTY OWNED BY Copper mining Co

PREVIOUS AND/OR CURRENT LEASES _____



no photo

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14205 Date 8/11/80 Time 3:00 pm
Name Turkey Ck. H.S. Location: Co. Grant State N.M.
Sec. NE/cw 3 Twp. 14S R. 16W; km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 5320 Quad. Canyon Hill 7.5
Sampler Shonker

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

DESCRIPTION:

WATER TEMP. °C 73°C

DISCHARGE 150-200 ? (gpm/Lpm)

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH _____

ODOR none

BORE _____

FLUID COLOR clear

PUMP TYPE _____

FLUID TASTE good

STATIC HEAD _____

BUBBLING slight

SCALING _____

BOILING no/steaming

TYPE OF PIPING _____

VEGETATION none but red algae

ARTESIAN HEAD _____

FLUID ISSUES FROM fractures on west side of Turkey Ck. Gila Conglomerate?

ROCK DATA:

TYPE (SURFACE) Gila Congl. ?

COLOR buff

GRAIN SIZE congl.
MEGASCOPIC MINERALS _____

SALT:

TYPE CaCO₃

QUANTITY mod.

COLOR white

FORM crust

ALTERATION yes-

SINTER:

RX TYPE (AT DEPTH) same ?

TYPE SiO₂

WATER USED FOR IMMEDIATE AREA rec.
USED FOR _____

QUANTITY minor

COLOR white/buff

FORM crust

QUALITY OF SAMPLE EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION ??

PROPERTY OWNED BY U.S.F.S. Wilderness area.

PREVIOUS AND/OR CURRENT LEASES not for G.T.

BH 3-17

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14206 Date 8-12⁸⁰ Time 10 AM

Name HANOVER SPRING Location: Co. GRANT State N MEX

Sec. 34 Twp. 16S R. 12W ; _____ km/mi SE/E/SW OF _____

Lat. 32° 52' Long. 108 4' Elevation 6980 Quad. SANTA RITA 75

Sampler HUNTSMAN

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

DESCRIPTION:

WATER TEMP. °C 17°C

DISCHARGE seep gpm/Lpm

GROUND TEMP. °C 23

WELL DATA:

AIR TEMP. 23

DEPTH _____

ODOR NONE

BORE _____

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE OK

STATIC HEAD _____

BUBBLING no

SCALING _____

BOILING no

TYPE OF PIPING _____

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM seep in gravel into cement box

ROCK DATA:

TYPE (SURFACE) AIV - MIXTURE in STREAM

COLOR _____

SALT:

GRAIN SIZE
MEGASCOPIC
MINERALS _____

TYPE NONE

QUANTITY _____

COLOR _____

FORM _____

ALTERATION metamorphics

SINTER:

RX TYPE (AT DEPTH) " "

TYPE NONE

WATER USED FOR IMMEDIATE AREA
USED FOR _____

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY U.S.F.S.

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14210 Date 12-11-80 Time 11Am
 Name Cinder mine well Location: Co. Dona Ana State N Mex
 Sec. 8 Twp. 25s R. 3w ; km/mi _____ OF _____
 Lat. 32° 12' Long. 107° 14' Elevation 4470 Quad. Aden 15mil
 Sampler Shenkar

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>Windmill 12'</u> gpm/Lpm
GROUND TEMP. °C	<u>10</u>	WELL DATA:	
AIR TEMP.	_____	DEPTH	<u>260</u>
ODOR	<u>? Sulphur maybe</u>	BORE	_____
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	<u>Windmill 12'</u>
FLUID TASTE	<u>Iron -</u>	STATIC HEAD	_____
BUBBLING	<u>no</u>	SCALING	_____
BOILING	<u>no</u>	TYPE OF PIPING	_____
VEGETATION	_____	ARTESIAN HEAD	_____
FLUID ISSUES FROM	<u>well</u>	ROCK DATA:	
	<u>pH = 7</u>	TYPE (SURFACE)	<u>Cinder alb -</u>
	_____	COLOR	_____

SALT:

TYPE	<u>NaCl and some unknown</u>	GRAIN SIZE	_____
QUANTITY	<u>minor</u>	MEGASCOPIC	_____
COLOR	<u>white</u>	MINERALS	_____
FORM	<u>crust</u>	ALTERATION	_____

SINTER:

TYPE	_____	RX TYPE (AT DEPTH)	<u>Cinder cones in area Basalt.</u>
QUANTITY	_____	WATER USED FOR IMMEDIATE AREA	_____
COLOR	_____	USED FOR	<u>Cattle</u>
FORM	_____	QUALITY OF SAMPLE: EXC., GOOD, POOR	_____

PROBABLE CAUSE OF MANIFESTATION _____
 PROPERTY OWNED BY STRAUSS
 PREVIOUS AND/OR CURRENT LEASES _____

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14211 Date 12/11/80 Time 12-NOON

Name O.D. Ranch well Location: Co. Dona A State N.M.

Sec. 10 Twp. 25S R. 4W ; km/mi _____ OF _____

Lat. 32.09' Long. 107.14 Elevation 4240 Quad. Aden 15'

Sampler Huntsman - Shenker

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

DESCRIPTION:

WATER TEMP. °C 23.5

DISCHARGE pumps ~ 2 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH 60m

ODOR ok

BORE 6"

FLUID COLOR wh-sl cloudy

PUMP TYPE sub

FLUID TASTE ok - minor oil taste

STATIC HEAD _____

BUBBLING no

SCALING no

BOILING no

TYPE OF PIPING steel

VEGETATION none in area

ARTESIAN HEAD _____

FLUID ISSUES FROM sub-pump

ROCK DATA:

TYPE (SURFACE) als

COLOR Tan

SALT:

GRAIN SIZE _____

TYPE none

MEGASCOPIC _____

QUANTITY _____

MINERALS incompatible

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) Basalt

TYPE _____

WATER USED FOR cattle

QUANTITY none

IMMEDIATE AREA _____

COLOR _____

USED FOR "

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____ Filtered

PROPERTY OWNED BY Strauss leases surface

PREVIOUS AND/OR CURRENT LEASES _____

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14212 Date 12/11/80 Time 3:45

Name Sweetwater Windmill Location: Co. D.A. State N.M.

Sec. 1W/28 Twp. 26S R. 4W ; km/mi _____ OF _____

Lat. 32° 1' Long. 107° 16' Elevation 4320 Quad. X-7 Ranch 7.5'

Sampler Huntsman using plastic pump.

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

DESCRIPTION:

WATER TEMP. °C 23.5C DISCHARGE variable gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. _____ DEPTH 310'

ODOR none BORE 6"

FLUID COLOR clear PUMP TYPE mill

FLUID TASTE none STATIC HEAD 30'

BUBBLING no SCALING no

BOILING no TYPE OF PIPING steel

VEGETATION no ARTESIAN HEAD ?

FLUID ISSUES FROM windmill pump ROCK DATA:

tube TYPE (SURFACE) gal

COLOR red

GRAIN SIZE sand

MEGASCOPIC MINERALS gtz

SALT:

TYPE NaCl

QUANTITY abundant

COLOR white

FORM crust ALTERATION no

SINTER:

RX TYPE (AT DEPTH) basalt

TYPE no WATER USED FOR IMMEDIATE AREA cattle

QUANTITY _____ USED FOR _____

COLOR _____

FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES Strauss

Chrom - Check Swanberg list. -

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14213 Date 12/12/80 Time 10:00 AM

Name Strauss Ranch Well Hdqts (deep) Location: Co. D.A. State N.M.

Sec. SW 30 Twp. 25S R. 2W ; km/mi _____ OF _____

Lat. 32° 6' Long. 107° 5' Elevation 4288 Quad. Aden 15'

Sampler Huntsman

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

DESCRIPTION:

WATER TEMP. °C 24°C

DISCHARGE 12 gpm gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. ~ 7°C

DEPTH 443' pumps @ 336'

ODOR none

BORE 6"

FLUID COLOR clear

PUMP TYPE sub-

FLUID TASTE good

STATIC HEAD ?

BUBBLING no

SCALING no

BOILING no

TYPE OF PIPING steel

VEGETATION no

ARTESIAN HEAD ?

FLUID ISSUES FROM valve just above top of well

ROCK DATA:

TYPE (SURFACE) Qal

COLOR red

GRAIN SIZE sandy / w caliche

MEGASCOPIC MINERALS qtz

SALT:

TYPE no

QUANTITY _____

COLOR _____

FORM _____

ALTERATION no

SINTER:

RX TYPE (AT DEPTH) basalt

TYPE no

WATER USED FOR IMMEDIATE AREA ranch domestic

QUANTITY _____

USED FOR ranch

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC. GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY Strauss Cattle Co.

PREVIOUS AND/OR CURRENT LEASES non for G.T.

Same as 213

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14214 Date Dec. 12, '80 Time 10:00 AM
Name Strauss Ranch Hqts. well Location: Co. D.A. State N.M.
Sec. SW 30 Twp. 25S R. 2W ; km/mi _____ OF _____
Lat. 32° 6' Long. 107° 5' Elevation 4288 Quad. Aden 15'
Sampler Huntzman

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

DESCRIPTION:

WATER TEMP. °C _____ DISCHARGE 12 gpm gpm/Lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. ~7°C DEPTH not sure which
ODOR none BORE well. Probably
FLUID COLOR clear PUMP TYPE same as 214213.
FLUID TASTE good STATIC HEAD _____
BUBBLING no SCALING _____
BOILING no TYPE OF PIPING _____
VEGETATION no ARTESIAN HEAD _____
FLUID ISSUES FROM spigot near ROCK DATA:
at brown tank TYPE (SURFACE) _____
COLOR _____

SALT:

TYPE no GRAIN SIZE _____
QUANTITY _____ MEGASCOPIC _____
COLOR _____ MINERALS _____
FORM _____ ALTERATION _____

SINTER:

TYPE no RX TYPE (AT DEPTH) _____
QUANTITY _____ WATER USED FOR _____
COLOR _____ IMMEDIATE AREA _____
FORM _____ USED FOR _____
QUALITY OF SAMPLE: EXC. GOOD POOR

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

Same as 213 ? YES

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14215 Date 12/12/80 Time 5pm

Name Afton well Location: Co. Donna Ariz State N Mex

Sec. 4 Twp. 26S R. 1W; _____ km/mi _____ OF _____

Lat. 32° 2' Long. 106° 51' Elevation 4216 Quad. Afton

Sampler Shenker pH 7-2

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

DESCRIPTION:

WATER TEMP. °C 28

DISCHARGE _____ gpm/Lpm

GROUND TEMP. °C /

WELL DATA:

AIR TEMP. /

DEPTH 90m

ODOR none

BORE _____

FLUID COLOR none

PUMP TYPE Sub

FLUID TASTE none

STATIC HEAD _____

BUBBLING /

SCALING _____

BOILING /

TYPE OF PIPING _____

VEGETATION /

ARTESIAN HEAD _____

FLUID ISSUES FROM _____

ROCK DATA:

TYPE (SURFACE) Alv

COLOR _____

SALT:

GRAIN SIZE _____
MEGASCOPIC
MINERALS _____

TYPE none

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) Basalt

TYPE none

WATER USED FOR
IMMEDIATE AREA
USED FOR _____

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY Strusser

PREVIOUS AND/OR CURRENT LEASES None

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14216 Date 12/13/80 Time 5pm

Name Joe Bannett Well Location: Co/D Azusa State N Mex

Sec. 21 Twp. 27s R. 2E ; km/mi _____ OF _____

Lat. 31.45 Long 106 46' Elevation 4140 Quad. Noria 15

Sampler Huntman

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

DESCRIPTION:

WATER TEMP. °C 19°

DISCHARGE variable gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH ?

ODOR none

BORE 6"

FLUID COLOR clear

PUMP TYPE Windmill

FLUID TASTE ok

STATIC HEAD ?

BUBBLING no

SCALING no

BOILING no

TYPE OF PIPING steel

VEGETATION ok

ARTESIAN HEAD ?

FLUID ISSUES FROM windmill

ROCK DATA:

TYPE (SURFACE) Caliche & windblown

COLOR sand.

SALT:

GRAIN SIZE _____
MEGASCOPIC _____
MINERALS _____

TYPE no

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) Basalt?

TYPE no

WATER USED FOR IMMEDIATE AREA USED FOR _____

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY Strauss

PREVIOUS AND/OR CURRENT LEASES _____

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W 14217 Date 12/14/80 Time 10:30am
Name Cox Ranch well Location: Co. D Aca State N Mex
Sec. NW 1/4 31 Twp. 28s R. 2w ; _____ km/mi _____ OF _____
Lat. 39° 50' Long. 107° 5' Elevation 4156 Quad. Mt Riley 15"
Sampler Huntman, Henker

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

DESCRIPTION:

WATER TEMP. °C 21°C DISCHARGE _____ gpm/Lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. _____ DEPTH 122m
ODOR none BORE _____
FLUID COLOR clear PUMP TYPE Jack (gas)
FLUID TASTE good STATIC HEAD _____
BUBBLING no SCALING _____
BOILING no TYPE OF PIPING _____
VEGETATION yes-normal ARTESIAN HEAD _____
FLUID ISSUES FROM no well ROCK DATA:

TYPE (SURFACE) gravels, sands - @ Alv
COLOR _____

SALT:

TYPE NaCl and P GRAIN SIZE _____
QUANTITY _____ MEGASCOPIC _____
COLOR _____ MINERALS _____
FORM _____ ALTERATION None

SINTER:

TYPE None RX TYPE (AT DEPTH) ?
QUANTITY _____ WATER USED FOR IMMEDIATE AREA House, cattle
COLOR _____ USED FOR Ranch
FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____
PROPERTY OWNED BY Strauss
PREVIOUS AND/OR CURRENT LEASES _____

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14218 Date 12-14-80 Time 3:15

Name West Mill Well Location: Co. D. A. State N. M.

Sec. SE 33 Twp. 28S R. 3W; _____ km/mi _____ OF _____

Lat. 31° 45' Long. 107° 9' Elevation 4170 Quad. Mt. Riley 15'

Sampler Huntman

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

DESCRIPTION:

pH = 7.2.

WATER TEMP. °C 19°C

DISCHARGE var. gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH ?

ODOR no

BORE 6"

FLUID COLOR clear

PUMP TYPE mill

FLUID TASTE o.k.

STATIC HEAD ?

BUBBLING no

SCALING no

BOILING no

TYPE OF PIPING steel

VEGETATION o.k.

ARTESIAN HEAD ?

FLUID ISSUES FROM windmill

ROCK DATA:

TYPE (SURFACE) sand over basalt (ves.)

COLOR red / black

GRAIN SIZE _____
MEGASCOPIC _____
MINERALS _____

SALT:

TYPE no

QUANTITY _____

COLOR _____

FORM _____

ALTERATION no

SINTER:

RX TYPE (AT DEPTH) basalt

TYPE no

WATER USED FOR IMMEDIATE AREA nafile
USED FOR _____

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES Stravass

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14219 Date 12-14-80 Time 5:00 PM

Name Shiloh Well Location: Co. D.A. State N.M.

Sec. SE 13 Twp. 29S R. 3W ; _____ km/mi _____ OF _____

Lat. 31° 47' Long. 107° 6' Elevation 4050 Quad. Mt. Riley 15'

Sampler Huntsman & Shenker

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

DESCRIPTION:

WATER TEMP. °C 23.5°C

DISCHARGE good gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH 60m

ODOR oil

BORE 6"

FLUID COLOR yellowish

PUMP TYPE jack

FLUID TASTE didn't taste

STATIC HEAD ≈ ~60m

BUBBLING no

SCALING no

BOILING no

TYPE OF PIPING steel

VEGETATION o.k.

ARTESIAN HEAD ?

FLUID ISSUES FROM jack pump

ROCK DATA:

TYPE (SURFACE) basalt vesicular

May be oil in sample.

COLOR black

SALT:

TYPE NO

GRAIN SIZE
MEGASCOPIC
MINERALS _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION no

SINTER:

RX TYPE (AT DEPTH) ? basalt

TYPE NO

WATER USED FOR IMMEDIATE AREA
USED FOR cattle

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES Straves Cable Co.

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14220 Date 12/16/80 Time 1pm
 Name Tub Well - STRAUSS RANCH Location: Co Delta Area _____ State N Mex
 Sec. 17 Twp. 26s R. 2w ; km/mi _____ OF _____
 Lat. 32° 3' Long. 107° 4' Elevation 4276 Quad. Adon 15min
 Sampler Hunter & Shenker

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

DESCRIPTION:

WATER TEMP. °C	<u>29.5</u>	DISCHARGE	<u>~ 20</u> <u>(gpm)</u> /Lpm
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	_____	DEPTH	<u>147m</u>
ODOR	<u>none</u>	BORE	<u>6"</u>
FLUID COLOR	<u>clear</u>	PUMP TYPE	<u>Sub</u>
FLUID TASTE	<u>Bad</u>	STATIC HEAD	<u>?</u>
BUBBLING	<u>no</u>	SCALING	<u>no</u>
BOILING	<u>no</u>	TYPE OF PIPING	<u>steel</u>
VEGETATION	<u>o.k.</u>	ARTESIAN HEAD	<u>no</u>
FLUID ISSUES FROM	<u>black plastic pipe</u>	ROCK DATA:	
	<u>8 feet from well head.</u>	TYPE (SURFACE)	<u>Basalt</u>
		COLOR	_____
SALT:		GRAIN SIZE	_____
TYPE	<u>None</u>	MEGASCOPIC	_____
QUANTITY	_____	MINERALS	_____
COLOR	_____		
FORM	_____	ALTERATION	<u>None</u>
SINTER:		RX TYPE (AT DEPTH)	<u>? gravel</u>
TYPE	<u>None</u>	WATER USED FOR	<u>Cattle</u>
QUANTITY	_____	IMMEDIATE AREA	<u>Cattle</u>
COLOR	_____	USED FOR	_____
FORM	_____	QUALITY OF SAMPLE: EXC. <u>(GOOD)</u> POOR	

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY Strauss

PREVIOUS AND/OR CURRENT LEASES _____

Photo WA 2-17

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14300 Date 8/18/80 Time 12:00
Name Well Location: Co. Riverside State Calif.
Sec. 10 Twp. 6S R. 12E ; 4143 km/mi _____ OF _____
Lat. 33° 39.5' Long. 115° 43' Elevation 1710 Quad. Hayfield Quad
Sampler WA

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

DESCRIPTION:

WATER TEMP. °C 37°C DISCHARGE _____ gpm/Lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. 33°C DEPTH ?
ODOR No BORE ?
FLUID COLOR Clear PUMP TYPE ?
FLUID TASTE O.K. STATIC HEAD _____
BUBBLING No SCALING No
BOILING No TYPE OF PIPING _____
VEGETATION Yes ARTESIAN HEAD _____

FLUID ISSUES FROM pipe next to gas station. Owner claims its connected to some nearby wells ROCK DATA:
TYPE (SURFACE) Alluvium
COLOR buff

SALT: None GRAIN SIZE _____
TYPE _____ MEGASCOPIC MINERALS _____
QUANTITY _____
COLOR _____
FORM _____ ALTERATION No

SINTER: None RX TYPE (AT DEPTH) Granite
TYPE _____ WATER USED FOR to water
QUANTITY _____ IMMEDIATE AREA USED FOR plants at
COLOR _____ gas station
FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____
PROPERTY OWNED BY Red Crown Gasoline station (Chevron)
PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14301 Date 8/18/80 Time 12:30 PM
 Name Well Location: Co. Riverside State Calif.
 Sec. 5 Twp. 6S R. 10E ; 2324 km/mi _____ OF _____
 Lat. 33° 40.8' Long. 115° 58' Elevation 1680 Quad. Cottonwood Spr.
 Sampler WA

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

DESCRIPTION:

WATER TEMP. °C	<u>30°C</u>	DISCHARGE	<u>Variable</u> gpm/Lpm
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>35°C</u>	DEPTH	<u>?</u>
ODOR	<u>No</u>	BORE	<u>?</u>
FLUID COLOR	<u>Clear</u>	PUMP TYPE	<u>electric</u>
FLUID TASTE	<u>Good</u>	STATIC HEAD	<u>?</u>
BUBBLING	<u>No</u>	SCALING	<u>No</u>
BOILING	<u>No</u>	TYPE OF PIPING	<u>-</u>
VEGETATION	<u>Yes (weeds)</u>	ARTESIAN HEAD	<u>-</u>
FLUID ISSUES FROM	<u>pipe connected</u>	ROCK DATA:	
	<u>to storage tank which intern</u>	TYPE (SURFACE)	<u>Alluvium</u>
	<u>is connected to pump enclosed</u>	COLOR	<u>buff</u>
	<u>in brick house</u>	GRAIN SIZE	_____
SALT:		MEGASCOPIC	_____
TYPE	<u>None</u>	MINERALS	_____
QUANTITY	_____	ALTERATION	<u>None</u>
COLOR	_____	RX TYPE (AT DEPTH)	<u>Granite</u>
FORM	_____	WATER USED FOR	_____
SINTER:		IMMEDIATE AREA	_____
TYPE	<u>None</u>	USED FOR	<u>Rest stop.</u>
QUANTITY	_____	QUALITY OF SAMPLE:	<u>EXC.</u> , GOOD, POOR
COLOR	_____		
FORM	_____		

PROBABLE CAUSE OF MANIFESTATION - Solar heated?
 PROPERTY OWNED BY State Hwy Dept?
 PREVIOUS AND/OR CURRENT LEASES _____



Photo WAZ-19

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14302 Date 18/18/80 Time 1:00 PM

Name Cottonwood Spring Location: Co. Riverside State Calif.

Sec. 14 Twp. 5S R. 11E ; 322 km/mi _____ OF _____

Lat. 33°44' Long. 115°43.2' Elevation 2949 Quad. Cottonwood Spr

Sampler WA

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

DESCRIPTION:

Fractures in granite along path leading to the spring are altered, surrounded by a leached zone.

WATER TEMP. °C 20°C

DISCHARGE Seep gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 27°C

DEPTH _____

ODOR No

BORE _____

FLUID COLOR Clear

PUMP TYPE _____

FLUID TASTE Sulphurous

STATIC HEAD _____

BUBBLING No

SCALING Yes on rocks

BOILING No

TYPE OF PIPING _____

VEGETATION Yes

ARTESIAN HEAD _____

FLUID ISSUES FROM fractures in

ROCK DATA:

granite a/c.

TYPE (SURFACE) Granite

COLOR pinkish

SALT: None

GRAIN SIZE < 3mm

TYPE _____

MEGASCOPIC MINERALS K-spar, qtz

QUANTITY _____

hornblende, biotite.

COLOR _____

FORM _____

ALTERATION None

SINTER: None

RX TYPE (AT DEPTH) Same

TYPE _____

WATER USED FOR IMMEDIATE AREA in Park

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION ?

PROPERTY OWNED BY National Park

PREVIOUS AND/OR CURRENT LEASES _____



Photo WA2-20

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14303 Date 8/18/80 Time 3:00 PM

Name Dos Palmas Spring Location: Co. Riverside State Calif

Sec. 3 Twp. 8S R. 11E : 1232 km/mi _____ OF _____

Lat. 33° 30.4' Long. 115° 49.3' Elevation -80' Quad. Cottonwood Spring

Sampler WA

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

DESCRIPTION:

WATER TEMP. °C 29°C

DISCHARGE at least 10 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA: Vegetation obscures total outflow.

AIR TEMP. 42°C

DEPTH _____

ODOR No

BORE _____

FLUID COLOR Clear

PUMP TYPE _____

FLUID TASTE O.K.

STATIC HEAD _____

BUBBLING No

SCALING _____

BOILING No

TYPE OF PIPING _____

VEGETATION Yes!!!

ARTESIAN HEAD _____

FLUID ISSUES FROM ground in center of palm tree cluster

ROCK DATA:

TYPE (SURFACE) Alluvium

COLOR grey

SALT:

GRAIN SIZE MEGASCOPIC MINERALS _____

TYPE NaCl

QUANTITY fairly abundant

COLOR white

FORM crust on ground

ALTERATION None visible

SINTER:

RX TYPE (AT DEPTH) Seds. s.s. + sh. + congl.

TYPE None

WATER USED FOR IMMEDIATE AREA USED FOR none

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION ?

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES —



Photo WA3-1

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14304 Date 8/18/80 Time 4:00 PM

Name Canyon Spring Location: Riverside Co. _____ State Calif

Sec. 20 Twp. 7S R. 13E ; 3141 km/mi _____ OF _____

Lat. 33°32.5' Long. 115°44.3' Elevation 1240' Quad. Hayfield

Sampler WA

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

DESCRIPTION:

WATER TEMP. °C 29.5°C (solar?) DISCHARGE seep gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. 37°C DEPTH _____

ODOR No BORE _____

FLUID COLOR Clear PUMP TYPE _____

FLUID TASTE O.K. STATIC HEAD _____

BUBBLING No SCALING _____

BOILING No TYPE OF PIPING _____

VEGETATION Yes (grass) ARTESIAN HEAD _____

FLUID ISSUES FROM stream gravels ROCK DATA: _____
near an o/c of SJ. TYPE (SURFACE) Sandstones + shales and one basalt (?) flow

COLOR generally tan

SALT: GRAIN SIZE < 1mm

TYPE NaCl MEGASCOPIC MINERALS etc.

QUANTITY Minor

COLOR White

FORM Crust on rocks ALTERATION None visible

SINTER: RX TYPE (AT DEPTH) _____

TYPE None WATER USED FOR IMMEDIATE AREA no use

QUANTITY _____ USED FOR _____

COLOR _____

FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION meteoric water surfacing?

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



BH 3-18

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14305 Date 8/19/80 Time 9:52

Name GRAPEFRUIT RANCH Location: Co. RIVERSIDE State CALIFORNIA

Sec. 7 Twp. 5s R. 16E ; km/mi _____ OF NE/NW/SW/

Lat. 33°45' Long. 115°21' Elevation 560 Quad CHUCKWALLA MOUNTAINS 15min

Sampler SHENKER

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

DESCRIPTION:

WATER TEMP. °C 35°C

DISCHARGE 500gpm gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 28

DEPTH _____

ODOR NONE

BORE _____

FLUID COLOR CLEAR

PUMP TYPE Turb - WELL NEXT TO Fruitstand

FLUID TASTE OK

STATIC HEAD _____

BUBBLING NO

SCALING _____

BOILING NO

TYPE OF PIPING _____

VEGETATION ABSENT

ARTESIAN HEAD _____

FLUID ISSUES FROM WELL

ROCK DATA:

TYPE (SURFACE) SS. AN

COLOR TAN

SALT:

GRAIN SIZE _____
MEGASCOPIC _____
MINERALS _____

TYPE NONE

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 Grapefruit Ranch

PREVIOUS AND/OR CURRENT LEASES _____



BAH 3-19

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14 306 Date 8/19/80 Time 11AM

Name Gas Station Well Location: Co. RIVERSIDE State CALIF

Sec. 35 Twp. 5S R. 14E ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 1200 Quad. CHUCKWALLA MOUNTAINS

Sampler HUNTSMAN & SHENNER - Down hole

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

DESCRIPTION:

WATER TEMP. °C 31°C

DISCHARGE Well Casing gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 29

DEPTH Water Sample at 620'

ODOR None

BORE _____

FLUID COLOR S1 Muddy to CLEAR

PUMP TYPE _____

FLUID TASTE OK

STATIC HEAD _____

BUBBLING NO

SCALING _____

BOILING NO

TYPE OF PIPING _____

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM _____

ROCK DATA:

TYPE (SURFACE) Alv Shist

COLOR _____

SALT:

GRAIN SIZE _____
MEGASCOPIIC _____
MINERALS _____

TYPE None

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) _____

TYPE None

WATER USED FOR _____
IMMEDIATE AREA _____
USED FOR _____

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Drill Well

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



BH-20
3

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14307 Date 8/19/80 Time 3:00 PM

Name #6 - Chuckwalla Valley Location: Co. Riverside State CA

Sec. NE 32 Twp. 6S R. 18E ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 510 ft. Quad. Sidewinder Well

Sampler Shenker & Huntsman

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

DESCRIPTION:

WATER TEMP. °C 30.5°C DISCHARGE _____ gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. 30°C DEPTH 30 m

ODOR none BORE 6"

FLUID COLOR brown PUMP TYPE none

FLUID TASTE salty STATIC HEAD ?

BUBBLING no SCALING no

BOILING no TYPE OF PIPING steel

VEGETATION _____ ARTESIAN HEAD ?

FLUID ISSUES FROM sampled from
cased hole with down-
hole sampling device.

ROCK DATA:

TYPE (SURFACE) Qal

COLOR _____

GRAIN SIZE
MEGASCOPIC
MINERALS /

SALT:

TYPE NaCl

QUANTITY abundant

COLOR _____

FORM in solution

ALTERATION no

SINTER:

RX TYPE (AT DEPTH) same

TYPE _____

WATER USED FOR IMMEDIATE AREA

QUANTITY no

USED FOR none

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY BLM

PREVIOUS AND/OR CURRENT LEASES _____



Send to
E.E. Campbell
86 Amer. Mine Opns.
Box 25
Amboy, CA 92304

NO PICTURES

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14308 Date 8/21/80 Time 10 AM
Name American Mine Well Location: Co San Bernadino State Calif
Sec. 19 Twp. 4N R. 12E ; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 1000 Quad. LEAD Mountain
Sampler B&L AS

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

DESCRIPTION:

WATER TEMP. °C	<u>30.5</u>	DISCHARGE	_____ gpm/Lpm
GROUND TEMP. °C	<u>X</u>	WELL DATA:	
AIR TEMP.	<u>30</u>	DEPTH	<u>600 feet</u>
ODOR	<u>NONE</u>	BORE	<u>6"</u>
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	<u>NONE</u>
FLUID TASTE	<u>S/ Salty</u>	STATIC HEAD	_____
BUBBLING	<u>/</u>	SCALING	_____
BOILING	<u>/</u>	TYPE OF PIPING	_____
VEGETATION	<u>/</u>	ARTESIAN HEAD	_____
FLUID ISSUES FROM	<u>WELL</u>	ROCK DATA:	
		TYPE (SURFACE)	_____
		COLOR	_____
		GRAIN SIZE	_____
		MEGASCOPIC	_____
		MINERALS	_____
SALT:		ALTERATION	_____
TYPE	_____	RX TYPE (AT DEPTH)	<u>Diorite</u>
QUANTITY	_____	WATER USED FOR	<u>nothing</u>
COLOR	_____	IMMEDIATE AREA	
FORM	_____	USED FOR	<u>Gold mining</u>
SINTER:		QUALITY OF SAMPLE: EXC., GOOD, POOR	
TYPE	_____		
QUANTITY	_____		
COLOR	_____		
FORM	_____		

PROBABLE CAUSE OF MANIFESTATION _____
PROPERTY OWNED BY American Metals
PREVIOUS AND/OR CURRENT LEASES _____

BH 4-2

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14309 Date 8/21/80 Time 10:30 AM

Name American Well Location: Co. San Bernardino State Calif

Sec. 7 Twp. 4N R. 12E ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 900 Quad LEAD MOUNTAIN

Sampler AS BH

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

DESCRIPTION:

WATER TEMP. °C 29

DISCHARGE _____ gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH 200?

ODOR _____

BORE _____

FLUID COLOR _____

PUMP TYPE _____

FLUID TASTE Very Salty

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING _____

VEGETATION Not really

ARTESIAN HEAD _____

FLUID ISSUES FROM pump

ROCK DATA:

TYPE (SURFACE) _____

COLOR _____

SALT:

GRAIN SIZE
MEGASCOPIIC
MINERALS _____

TYPE NaCl

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) Sivrite

TYPE _____

WATER USED FOR
IMMEDIATE AREA
USED FOR _____

QUANTITY _____

COLOR _____

FORM _____

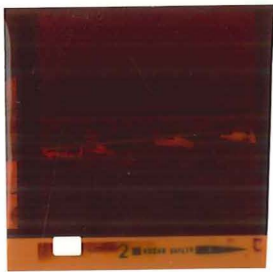
QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____

No print



NEG INSIDE

BH 4-3

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14310 Date 08/01/80 Time 11:20 AM

Name Pipeline Aband. WW Location: Co. San Ben State CA

Sec. SW/SE 29 Twp. 6 N R. 12 E ; km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 800 ft. Quad. Bagdad 15'

Sampler Huntsman and Shenker w/ sampler

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

DESCRIPTION:

WATER TEMP. °C 32.5°C

DISCHARGE aband. gpm/Lpm

GROUND TEMP. °C 35°C

WELL DATA:

AIR TEMP. "

DEPTH ~ 200 ft.

ODOR wt sulphur

BORE 8-10 in

FLUID COLOR clear

PUMP TYPE none

FLUID TASTE wt sulphur

STATIC HEAD 100-100 ft.

BUBBLING no

SCALING no

BOILING no

TYPE OF PIPING steel

VEGETATION no

ARTESIAN HEAD ?

FLUID ISSUES FROM aband. well

ROCK DATA:

TYPE (SURFACE) Gal - diorite w/

COLOR wh/grey epidote

GRAIN SIZE coarse xline

MEGASCOPIC MINERALS _____

SALT:

TYPE _____

QUANTITY no ?

COLOR _____

FORM _____

ALTERATION no

SINTER:

RX TYPE (AT DEPTH) same

TYPE _____

QUANTITY no ?

COLOR _____

FORM _____

WATER USED FOR IMMEDIATE AREA none

USED FOR "

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY BLM?

PREVIOUS AND/OR CURRENT LEASES _____

Faded handwritten text, possibly a date or reference number.

No Print
NEG INSIDE



BH-44

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14311 Date 8/21/80 Time 1:45 PM

Name Glasgow Well UPRR Location: Co. S.R. State CA

Sec. SE/SE 6 Twp. 10N R. 11E ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 1520 ft Quad. Kerens 15'

Sampler Shenker and Huntsman

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

DESCRIPTION:

WATER TEMP. °C 37°C

DISCHARGE up to 500 (gpm/Lpm)

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 37°C

DEPTH ?

ODOR none

BORE 10" +

FLUID COLOR clear

PUMP TYPE sub-turbine

FLUID TASTE good

STATIC HEAD ?

BUBBLING no

SCALING no

BOILING no

TYPE OF PIPING steel

VEGETATION no

ARTESIAN HEAD ?

FLUID ISSUES FROM well head w/ turbine pump.

ROCK DATA:

TYPE (SURFACE) Gal - sand

COLOR _____

SALT:

GRAIN SIZE MEGASCOPIC MINERALS /

TYPE NO?

QUANTITY _____

COLOR _____

FORM _____

ALTERATION NO

SINTER:

RX TYPE (AT DEPTH) ?

TYPE NO A

WATER USED FOR IMMEDIATE AREA USED FOR watering trees along RR

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC. GOOD POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY UPRR

PREVIOUS AND/OR CURRENT LEASES _____



BH-4-5

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14312 Date 8/24/80 Time 2:30 PM

Name UPRR Test Well Location: Co. SB State CA

Sec. NW/NE Twp. 11N R. 8E ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation -1000 ft Quad. Soda Lake 15'

Sampler Hunterman

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

DESCRIPTION:

WATER TEMP. °C ambient

DISCHARGE not pumped gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 37°C

DEPTH ?

ODOR none

BORE 4"

FLUID COLOR murky

PUMP TYPE none

FLUID TASTE iron

STATIC HEAD surface ?

BUBBLING no

SCALING no

BOILING no

TYPE OF PIPING steel

VEGETATION no

ARTESIAN HEAD surface ?

FLUID ISSUES FROM test well

ROCK DATA:

4", couldn't use

TYPE (SURFACE) Gal

sampler

COLOR _____

SALT:

GRAIN SIZE
MEGASCOPIC
MINERALS /

TYPE _____

QUANTITY NO

COLOR _____

FORM _____

ALTERATION NO

SINTER:

RX TYPE (AT DEPTH) _____

TYPE _____

WATER USED FOR
IMMEDIATE AREA none
USED FOR _____

QUANTITY NO

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY UPRR

PREVIOUS AND/OR CURRENT LEASES _____



BH 46

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14813 Date 8/21/80 Time 3:40 pm

Name Razor Ranch Test Location: Co. SB State CA

Sec. NW/NE 35 Twp. 12 N R. SE ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 950 ft Quad. Soda Lake 15'

Sampler Huntsman & Shenker

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

DESCRIPTION:

WATER TEMP. °C 28°C

DISCHARGE Static gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 38°C

DEPTH ~ 200 ft

ODOR sulphur

BORE 8"

FLUID COLOR slt. brackish

PUMP TYPE none

FLUID TASTE very salty slt. sulph.

STATIC HEAD 4 ft. below surface

BUBBLING no

SCALING no

BOILING no

TYPE OF PIPING steel

VEGETATION no

ARTESIAN HEAD don't think so

FLUID ISSUES FROM taken w/ down-

ROCK DATA:

hole sampler

TYPE (SURFACE) Qal - Soda Lake

COLOR tan

SALT:

GRAIN SIZE MEGASCOPIC MINERALS _____

TYPE NaCl +

QUANTITY abundt.

COLOR in solution

FORM ✓

ALTERATION no

SINTER:

RX TYPE (AT DEPTH) same

TYPE _____

WATER USED FOR IMMEDIATE AREA USED FOR none

QUANTITY NO

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY RLM ?

PREVIOUS AND/OR CURRENT LEASES _____



BH-47

Send Analysis to:
Ernie Young
Beacon Station
Baker, CA 219 — ?

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14314 Date 8/21/80 Time 4:20

Name Beacon Sta Well Location: Co. SB State CA

Sec. SW/NE 14 Twp. 12 N R. 7E ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 1370' Quad. Soda Lake 15'

Sampler Huntzman & Shenker

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

DESCRIPTION:

WATER TEMP. °C 29°C DISCHARGE ? gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. 38°C DEPTH 800 ft

ODOR none BORE 8'

FLUID COLOR clear PUMP TYPE sub.

FLUID TASTE salt, alk, sulph.? STATIC HEAD ?

BUBBLING no SCALING no

BOILING no TYPE OF PIPING steel

VEGETATION no ARTESIAN HEAD ?

FLUID ISSUES FROM sub-pump
well

ROCK DATA:
TYPE (SURFACE) Qal over Phylolite?

COLOR brown

SALT: TYPE NaCl + GRAIN SIZE MEGASCOPIC MINERALS _____

QUANTITY abund.

COLOR in solution

FORM _____ ALTERATION None at site.

SINTER: RX TYPE (AT DEPTH) _____

TYPE _____ WATER USED FOR IMMEDIATE AREA USED FOR gas station

QUANTITY NO

COLOR _____

FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY Ernie Young.

PREVIOUS AND/OR CURRENT LEASES none for GT



900-100-100

100-100-100

Photo JL - 3;14

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14320 Date 8/18/80 Time 9:40 am
Name DESERT CENTER WELL (#14) Location: Co. RIVERSIDE State CALIF.
Sec. 27, 2123 Twp. 5S 15E R. 5S ; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 900 FT Quad. CHUCKWALLA MTS
Sampler RGJL

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

DESCRIPTION:

WATER TEMP. °C 32.0°C DISCHARGE VARI gpm/Lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. 30°C DEPTH 840
ODOR NONE BORE 12" OR 14"
FLUID COLOR CLEAR PUMP TYPE ELECTRIC SUBMERSIBLE
FLUID TASTE "MINERALS" + NaCl STATIC HEAD ? (530?)
BUBBLING NO SCALING NONE
BOILING NO TYPE OF PIPING 6" STEEL
VEGETATION _____ ARTESIAN HEAD NO

FLUID ISSUES FROM SUB PUMP ROCK DATA:
TYPE (SURFACE) Gal (SANDY)
COLOR LIGHT BROWN

SALT: NO GRAIN SIZE MEDIUM
TYPE _____ MEGASCOPIC MINERALS _____
QUANTITY _____
COLOR _____

FORM _____ ALTERATION NONE
SINTER: NO RX TYPE (AT DEPTH) SAME?
TYPE _____ WATER USED FOR IMMEDIATE AREA DOMESTIC USE
QUANTITY _____ USED FOR CORRUGATED TANK
COLOR _____ RESERVOIR BUILDING _____
FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____
PROPERTY OWNED BY STANLEY E. RAGSDALE
PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14321 Date 8-18-80 Time 10:00

Name Vanterhoff Well #13 Location: Co. Riverside State Calif.

Sec. 23 Twp. 5S R. 15E ; km/mi _____ OF _____

Lat. 33°30' Long. 115°30' Elevation 840' Quad. Chuckwalla Mountains

Sampler JL PKG

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

DESCRIPTION:

WATER TEMP. °C 31

DISCHARGE variable gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 33

DEPTH ?

ODOR none

BORE ?

FLUID COLOR clear

PUMP TYPE submersible

FLUID TASTE okay

STATIC HEAD _____

BUBBLING -

SCALING CaCO₃ & Cu staining

BOILING ✓

TYPE OF PIPING brass

VEGETATION -

ARTESIAN HEAD _____

FLUID ISSUES FROM aquifer

ROCK DATA:

underground - PIPE ~ 35m

TYPE (SURFACE) Qal sandy

FROM WELL; #13 ON 15' MAP

COLOR light gray-brown

SALT:

GRAIN SIZE medium -> coarse
MEGASCOPIC MINERALS _____

TYPE CaCO₃

QUANTITY MINOR

COLOR WHITE

FORM ENCrustation ON PIPE

ALTERATION none

SINTER: NONE

RX TYPE (AT DEPTH) same

TYPE _____

WATER USED FOR IMMEDIATE AREA domestic

QUANTITY _____

USED FOR empty lot

COLOR _____

near trailers

FORM _____

QUALITY OF SAMPLE: EXC. GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION aquifer

PROPERTY OWNED BY Vanterhoff

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14322 Date 8/18/80 Time 10:40 am
 Name UNNAMED WELL ON TAMARISK DEVELOPMENT Location: Co. RIVERSIDE State CALIF.
 Sec. 14, 1411 Twp. 15 E R. 5 S ; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 720 FT Quad. CHUCKWALLA MTS.
 Sampler KG F JL

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

DESCRIPTION:

WATER TEMP. °C	<u>34.5° C</u>	DISCHARGE	<u>250</u> gpm/Lpm
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>30.0° C</u>	DEPTH	<u>?</u>
ODOR	<u>NONE</u>	BORE	<u>?</u>
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	<u>ELECTRIC SUBMERSIBLE ?</u>
FLUID TASTE	<u>GOOD</u>	STATIC HEAD	<u>?</u>
BUBBLING	<u>NO</u>	SCALING	_____
BOILING	<u>NO</u>	TYPE OF PIPING	<u>8" STEEL</u>
VEGETATION	<u>ALGAE</u>	ARTESIAN HEAD	<u>NO</u>
FLUID ISSUES FROM	<u>8" PIPE @ NE 1/4 OF</u>	ROCK DATA:	
	<u>NORTH LAKE - DISCHARGE ~ 200m</u>	TYPE (SURFACE)	<u>SANDY Gnl</u>
	<u>FROM WELL ; # 12 ON 15' MAP</u>	COLOR	<u>LIGHT BROWN</u>
SALT: <u>NONE</u>		GRAIN SIZE	<u>MEDIUM</u>
TYPE	_____	MEGASCOPIC MINERALS	<u>—</u>
QUANTITY	_____		
COLOR	_____		
FORM	_____	ALTERATION	<u>NONE</u>
SINTER: <u>NONE</u>		RX TYPE (AT DEPTH)	<u>SAME</u>
TYPE	_____	WATER USED FOR IMMEDIATE AREA	<u>LAKE</u>
QUANTITY	_____	USED FOR	<u>SUBDIVISION</u>
COLOR	_____		
FORM	_____	QUALITY OF SAMPLE: EXC., <u>GOOD</u> , POOR	

PROBABLE CAUSE OF MANIFESTATION _____
 PROPERTY OWNED BY TAMARISK SUBDIVISION
 PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14323 Date 8-18-80 Time 11:30

Name Sajoba Farm WW #3 #20 Location: Co. Riverside State Calif

Sec. 16 Twp. 4S R. 15E ; _____ km/mi _____ OF _____

Lat. 33° 45' Long. 115° 30' Elevation 760 Quad. Coxcomb Mountains

Sampler JL & KR

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

DESCRIPTION:

WATER TEMP. °C 38

DISCHARGE variable gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH _____

ODOR none

BORE _____

FLUID COLOR clear

PUMP TYPE _____

FLUID TASTE good

STATIC HEAD _____

BUBBLING -

SCALING _____

BOILING -

TYPE OF PIPING _____

VEGETATION -

ARTESIAN HEAD _____

FLUID ISSUES FROM underground

ROCK DATA:

aquifer

TYPE (SURFACE) Qal gravelly

COLOR light gray-brown

SALT:

GRAIN SIZE medium -> coarse

TYPE _____

MEGASCOPIC MINERALS _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION none

SINTER:

RX TYPE (AT DEPTH) Qal

TYPE _____

WATER USED FOR IMMEDIATE AREA domestic

QUANTITY _____

USED FOR church &

COLOR _____

parsonage

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION aquifer

PROPERTY OWNED BY Church of Christ ?

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14324 Date 8/18/80 Time 12:20
 Name UNNAMED WELL Location: Co. RIVERSIDE State CALIF.
 Sec. 10, 2442 Twp. 15 E R. 4 S ; km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 735 FT Quad. COXCOMB MOUNTAINS
 Sampler KC & JL

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

DESCRIPTION:

WATER TEMP. °C	<u>29.5°c</u>	DISCHARGE	<u>150</u> gpm/Lpm
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>31.5°c</u>	DEPTH	<u>?</u>
ODOR	<u>NONE</u>	BORE	<u>?</u>
FLUID COLOR	_____	PUMP TYPE	<u>ELECTRIC SUBMERSIBLE</u>
FLUID TASTE	<u>GOOD</u>	STATIC HEAD	<u>?</u>
BUBBLING	<u>NO</u>	SCALING	<u>NONE</u>
BOILING	<u>NO</u>	TYPE OF PIPING	<u>8"</u>
VEGETATION	<u>SCRUB TREES, BUSHES</u>	ARTESIAN HEAD	<u>NO</u>
FLUID ISSUES FROM	<u>8" STEEL PIPE FROM</u>	ROCK DATA:	
<u>WELL</u>	_____	TYPE (SURFACE)	<u>SANDY Qa1</u>
	_____	COLOR	<u>LIGHT BROWN</u>
SALT: <u>NONE</u>		GRAIN SIZE	<u>MEDIUM</u>
TYPE	_____	MEGASCOPIC MINERALS	<u>—</u>
QUANTITY	_____		
COLOR	_____		
FORM	_____	ALTERATION	<u>NONE</u>
SINTER: <u>NONE</u>		RX TYPE (AT DEPTH)	<u>SAME</u>
TYPE	_____	WATER USED FOR IMMEDIATE AREA	<u>BATHING POND</u>
QUANTITY	_____	USED FOR	<u>"</u>
COLOR	_____		
FORM	_____	QUALITY OF SAMPLE: EXC., <u>GOOD</u> , POOR	

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY KAISER STEEL

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14325 Date 8-18-80 Time 1:15

Name Grape Ranch Well Location: Co. Riverside State Calif

Sec. 18 Twp. 5S R. 16E ; km/mi _____ OF _____

Lat. 33° 30' Long. 115° 30' Elevation 640 Quad. Chuckwalla Mountains

Sampler JL & KG

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

DESCRIPTION:

WATER TEMP. °C _____

DISCHARGE variable gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 38° C

DEPTH _____

ODOR none

BORE _____

FLUID COLOR clear

PUMP TYPE _____

FLUID TASTE good

STATIC HEAD _____

BUBBLING -

SCALING _____

BOILING -

TYPE OF PIPING _____

VEGETATION -

ARTESIAN HEAD _____

FLUID ISSUES FROM aquifer

ROCK DATA:

TYPE (SURFACE) Qal sandy

COLOR gray brown

GRAIN SIZE medium

MEGASCOPIC MINERALS gravel

SALT:

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION none

SINTER:

RX TYPE (AT DEPTH) Qal

TYPE _____

WATER USED FOR IMMEDIATE AREA domestic

QUANTITY _____

USED FOR house

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION aquifer (collected from tank)

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES ?



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14326 Date 8/18/80 Time 1:55 pm
 Name DON BELLSBY'S WELL Location: Co. RIVERSIDE State CALIF
 Sec. 8, 2331 Twp. 5S R. 16E ; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 548 FT Quad. COX COMP MOUNTAINS
 Sampler KC + J L

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

DESCRIPTION:

WATER TEMP. °C	<u>35.0°C</u>	DISCHARGE	<u>VARIABLE</u> gpm/Lpm
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>38.0°C</u>	DEPTH	<u>?</u>
ODOR	<u>NONE</u>	BORE	<u>?</u>
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	<u>ELECTRIC SUBMERSIBLE</u>
FLUID TASTE	<u>GOOD</u>	STATIC HEAD	<u>?</u>
BUBBLING	<u>NO</u>	SCALING	<u>NONE</u>
BOILING	<u>NO</u>	TYPE OF PIPING	<u>3/4" GALVANIZED</u>
VEGETATION	<u>-</u>	ARTESIAN HEAD	<u>NO</u>
FLUID ISSUES FROM	<u>SPIGOT @ NW CORNER</u>	ROCK DATA:	
	<u>OF MOBILE HOME, ~ 100 m FROM</u>	TYPE (SURFACE)	<u>SANDY Qal</u>
	<u>WELL; # 19 ON 15' MAP</u>	COLOR	<u>LIGHT BROWN</u>
SALT: <u>NONE</u>		GRAIN SIZE	<u>MEDIUM</u>
TYPE	_____	MEGASCOPIC	_____
QUANTITY	_____	MINERALS	_____
COLOR	_____		
FORM	_____	ALTERATION	<u>NONE</u>
SINTER: <u>NONE</u>		RX TYPE (AT DEPTH)	<u>SAME</u>
TYPE	_____	WATER USED FOR	<u>DOMESTIC USE</u>
QUANTITY	_____	IMMEDIATE AREA	_____
COLOR	_____	USED FOR	<u>HOME + LANDING STRIP</u>
FORM	_____	QUALITY OF SAMPLE: EXC., GOOD, POOR	

PROBABLE CAUSE OF MANIFESTATION _____
 PROPERTY OWNED BY RIVERSIDE COUNTY (?) - DON BELLSBY IS LESSEE.
 PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W114327 Date 8-18-80 Time 2:30
 Name Carney Ranch Well Location: Co. Riverside State Calif.
 Sec. 5 Twp. 5S R. 15E ; _____ km/mi _____ OF _____
 Lat. 33°45' Long. 115°30' Elevation 560 Quad. Coxcomb Mountains
 Sampler SL & KR

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>variable</u> gpm/Lpm
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>37</u>	DEPTH	<u>110'</u>
ODOR	<u>none</u>	BORE	_____
FLUID COLOR	<u>clear</u>	PUMP TYPE	<u>Submersible</u>
FLUID TASTE	<u>good</u>	STATIC HEAD	<u>70'</u>
BUBBLING	<u>-</u>	SCALING	_____
BOILING	<u>-</u>	TYPE OF PIPING	_____
VEGETATION	<u>-</u>	ARTESIAN HEAD	_____
FLUID ISSUES FROM	<u>aquifer</u>	ROCK DATA:	
_____	_____	TYPE (SURFACE)	<u>Qal sandy</u>
_____	_____	COLOR	<u>light gray brown</u>

SALT:

TYPE	_____	GRAIN SIZE	<u>medium</u>
QUANTITY	_____	MEGASCOPIC MINERALS	_____
COLOR	_____		
FORM	_____	ALTERATION	<u>none</u>

SINTER:

TYPE	_____	RX TYPE (AT DEPTH)	<u>gal</u>
QUANTITY	_____	WATER USED FOR IMMEDIATE AREA	<u>domestic</u>
COLOR	_____	USED FOR	<u>house</u>
FORM	_____	QUALITY OF SAMPLE:	<u>EXC.</u> , GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION aquifer
 PROPERTY OWNED BY Mr. Clifton Carney
 PREVIOUS AND/OR CURRENT LEASES _____

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14328 Date 8/18/80 Time 2:50 pm
 Name AMERICAN JOJUBA WELL Location: Co. RIVERSIDE State CALIF.
 Sec. 30 3343 Twp. 4S R. 16E; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 580' Quad. COX COMB MOUNTAINS
 Sampler KC & JL

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

DESCRIPTION:

WATER TEMP. °C	<u>30.5 °C</u>	DISCHARGE	<u>2300</u> <u>gpm/Lpm</u>
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>~38 °C</u>	DEPTH	<u>900 FT</u>
ODOR	<u>NONE</u>	BORE	<u>12"</u>
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	<u>DIESEL</u>
FLUID TASTE	<u>GOOD</u>	STATIC HEAD	<u>?</u>
BUBBLING	<u>NO</u>	SCALING	<u>NO</u>
BOILING	<u>NO</u>	TYPE OF PIPING	<u>STEEL</u>
VEGETATION	<u>—</u>	ARTESIAN HEAD	<u>NO</u>
FLUID ISSUES FROM	<u>SPIGOT NEXT TO DIESEL PUMP; WELL #17 ON 15' MAP</u>	ROCK DATA:	
		TYPE (SURFACE)	<u>SANDY Qa1</u>
		COLOR	<u>LIGHT BROWN</u>
SALT: <u>NONE</u>		GRAIN SIZE	<u>MEDIUM</u>
TYPE	_____	MEGASCOPIC MINERALS	<u>—</u>
QUANTITY	_____		
COLOR	_____		
FORM	_____	ALTERATION	<u>NONE</u>
SINTER: <u>NONE</u>		RX TYPE (AT DEPTH)	<u>SOME</u>
TYPE	_____	WATER USED FOR IMMEDIATE AREA	<u>IRRIGATION</u>
QUANTITY	_____	USED FOR	<u>FIELD HOUSE</u>
COLOR	_____		
FORM	_____	QUALITY OF SAMPLE: EXC. <u>GOOD</u> , POOR	

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY AMERICAN JOJUBA (BAKERSFIELD) - JACK JOHNSON

PREVIOUS AND/OR CURRENT LEASES 805/393-3313



SEND RESULTS TO: RON BAXTER

BOX 256

DESERT CENTER, CALIF. 92239

PHOTO KG - 2-4

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14329 Date 8/16/80 Time 3:30 pm

Name TOTEM POLE RANCH WELL Location: Co. RIVERSIDE State CALIF.

Sec. 6, 1231 Twp. 4S R. 17E; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 480 FT Quad. PALEN MOUNTAINS

Sampler KG + JL

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

DESCRIPTION:

WATER TEMP. °C 27.0°C DISCHARGE 250 gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. 39°C DEPTH 350 FT

ODOR NONE BORE _____

FLUID COLOR CLEAR PUMP TYPE DIESEL

FLUID TASTE "INTERESTING" - ALKALI STATIC HEAD 25 FT

BUBBLING NO SCALING NO

BOILING NO TYPE OF PIPING STEEL

VEGETATION — ARTESIAN HEAD NO

FLUID ISSUES FROM DIESEL PUMP. ROCK DATA:

WELL # 7 ON 15' TYPE (SURFACE) Qa1

COLOR MED BRN.

SALT: NONE GRAIN SIZE MED.

TYPE _____ MEGASCOPIC MINERALS —

QUANTITY _____

COLOR _____

FORM _____ ALTERATION NONE

SINTER: NONE RX TYPE (AT DEPTH) SAME

TYPE _____ WATER USED FOR IMMEDIATE AREA DOMESTIC + IRRIGATION

QUANTITY _____ USED FOR RANCH HOOTS

COLOR _____ DATE GROVE

FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY UNITED RANCH, INC.

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14330 Date 8/18/80 Time 4:10 pm

Name JOJABA #1 Location: Co. RIVERSIDE State CALIF.

Sec. 16 4113 Twp. _____ R. _____ ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 570 FT Quad. CHUCKWALLA MTS

Sampler KG + JL

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

DESCRIPTION:

WATER TEMP. °C 30.0 °C DISCHARGE 50 gpm gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. _____ DEPTH 490 FT

ODOR NONE BORE 14"

FLUID COLOR _____ PUMP TYPE DIESEL

FLUID TASTE _____ STATIC HEAD ~ 50 FT

BUBBLING _____ SCALING NO

BOILING _____ TYPE OF PIPING STEEL

VEGETATION _____ ARTESIAN HEAD NO

FLUID ISSUES FROM SPICOT FROM DIESEL PUMP. ROCK DATA:

WATER HAS PASSED THROUGH COARSE GRAVEL TYPE (SURFACE) SANDY Qa1

FILTER: WELL # 8 ON 15' MAP COLOR LIGHT BROWN

SALT: NONE GRAIN SIZE MEDIUM

TYPE _____ MEGASCOPIC MINERALS ✓

QUANTITY _____

COLOR _____

FORM _____ ALTERATION NONE

SINTER: NONE RX TYPE (AT DEPTH) SAME

TYPE _____ WATER USED FOR IMMEDIATE AREA IRRIGATION

QUANTITY _____ USED FOR JOJABA FIELDS

COLOR _____

FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY DON BELLSBY

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14331 Date 8-18-80 Time 5:30

Name Corn Springs Location: Co. Riverside State Calif

Sec. 28 (unsurveyed) Twp. 6S R. 16E ; _____ km/mi _____ OF _____

Lat. 33°30' Long. 115°30' Elevation 1600 Quad. Chuckwalla Mountains

Sampler JL & K9

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

DESCRIPTION:

WATER TEMP. °C 28.5

DISCHARGE ? hand pumped gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 32

DEPTH _____

ODOR none

BORE _____

FLUID COLOR clear

PUMP TYPE _____

FLUID TASTE good

STATIC HEAD _____

BUBBLING -

SCALING _____

BOILING -

TYPE OF PIPING _____

VEGETATION palm trees

ARTESIAN HEAD _____

FLUID ISSUES FROM fractures in

ROCK DATA:

TYPE (SURFACE) Gal & granodiorite outcrops

COLOR brown Gal, white & black granodiorite

GRAIN SIZE medium

MEGASCOPIC MINERALS quartz, plagioclase

biotite, hornblende?

SALT:

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION epidote

SINTER:

RX TYPE (AT DEPTH) granite

TYPE _____

WATER USED FOR IMMEDIATE AREA drinking

QUANTITY _____

USED FOR camping

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION meteoric

PROPERTY OWNED BY BLM

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14332 Date 8/19/80 Time 12:00 ^{noon}
 Name McCoy Spring Location: Co. Riverside State Calif
 Sec. unsurveyed Twp. 5S R. 20E ; _____ km/mi _____ OF _____
 Lat. 33° 44' 10" Long. 114° 54.2' Elevation 889' Quad. McCoy Spring
 Sampler J.L. + W.A.

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

DESCRIPTION:

WATER TEMP. °C	<u>26.5°C</u>	DISCHARGE	<u>Seep?</u>	gpm/Lpm
GROUND TEMP. °C	_____	WELL DATA:		
AIR TEMP.	<u>36.5°C</u>	DEPTH	_____	
ODOR	<u>Like RAID!</u>	BORE	_____	
FLUID COLOR	<u>Cloudy green-yellow!</u>	PUMP TYPE	_____	
FLUID TASTE	<u>looks too bad to taste!</u>	STATIC HEAD	_____	
BUBBLING	<u>No</u>	SCALING	_____	
BOILING	<u>No</u>	TYPE OF PIPING	_____	
VEGETATION	<u>Yes</u>	ARTESIAN HEAD	_____	
FLUID ISSUES FROM	<u>stream gravels.</u>	ROCK DATA:	<u>Talus + stream</u>	
	<u>Encased in a cement</u>	TYPE (SURFACE)	<u>gravels</u>	
	<u>pit.</u>	COLOR	<u>which are cemented</u>	
<u>SALT:</u>	<u>None</u>	GRAIN SIZE	<u>forming</u>	
TYPE	_____	MEGASCOPIC	_____	
QUANTITY	_____	MINERALS	<u>conglomerates.</u>	
COLOR	_____	ALTERATION	<u>None visible</u>	
FORM	_____	RX TYPE (AT DEPTH)	<u>Sandstones and conglomerates.</u>	
<u>SINTER:</u>	<u>None</u>	WATER USED FOR	<u>no use</u>	
TYPE	_____	IMMEDIATE AREA	_____	
QUANTITY	_____	USED FOR	_____	
COLOR	_____	QUALITY OF SAMPLE: EXC., GOOD, <u>POOR</u>		
FORM	_____			
PROBABLE CAUSE OF MANIFESTATION	<u>unknown</u>			
PROPERTY OWNED BY	<u>?</u>			
PREVIOUS AND/OR CURRENT LEASES	<u>?</u>			



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14333 Date 8-21-80 Time 10:00

Name Chambless Well Location: Co. San Bernardino State Calif

Sec. 32 Twp. 6N R. 14E ; _____ km/mi _____ OF _____

Lat. 34°30' Long. 115°45' Elevation 720 Quad. Cadiz

Sampler JLPK9

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

DESCRIPTION:

WATER TEMP. °C 34° DISCHARGE ? gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. 30 DEPTH _____

ODOR none BORE _____

FLUID COLOR clear PUMP TYPE _____

FLUID TASTE okay STATIC HEAD _____

BUBBLING - SCALING _____

BOILING - TYPE OF PIPING steel

VEGETATION - ARTESIAN HEAD _____

FLUID ISSUES FROM aquifer ROCK DATA:

TYPE (SURFACE) Qal (coarse)

COLOR gray brown

GRAIN SIZE coarse → medium
MEGASCOPIC MINERALS _____

SALT:

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION none

SINTER:

RX TYPE (AT DEPTH) same?

TYPE _____

WATER USED FOR IMMEDIATE AREA domestic

QUANTITY _____

USED FOR grocery store

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC. GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION aquifer

PROPERTY OWNED BY Stephens

PREVIOUS AND/OR CURRENT LEASES _____



Send results photo KG 2,9

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14334 Date 8-21-80 Time 11:30

Name Unnamed Well off Bagdad St. Location: Co. San Bernardino State Calif

Sec. 14 Twp. 1N R. 9E ; km/mi _____ OF _____

Lat. 34° 00' Long. 116° 15' Elevation ~1800 Quad. Twenty-nine Palms

Sampler JL SKJ

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

DESCRIPTION:

WATER TEMP. °C 63°C we got 47°C out of tank DISCHARGE ? gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 35°C

DEPTH _____

ODOR none

BORE _____

FLUID COLOR clear

PUMP TYPE _____

FLUID TASTE salty-minerals

STATIC HEAD _____

BUBBLING -

SCALING _____

BOILING -

TYPE OF PIPING _____

VEGETATION -

ARTESIAN HEAD _____

FLUID ISSUES FROM aquifer

ROCK DATA:

TYPE (SURFACE) Qal coarse

COLOR light brown

SALT:

GRAIN SIZE coarse

TYPE _____

MEGASCOPIC MINERALS gravel

QUANTITY _____

COLOR _____

FORM _____

ALTERATION none

SINTER:

RX TYPE (AT DEPTH) Qal

TYPE _____

WATER USED FOR IMMEDIATE AREA domestic

QUANTITY _____

USED FOR houses

COLOR _____

FORM _____

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

PROBABLE CAUSE OF MANIFESTATION aquifer

PROPERTY OWNED BY James E. Jewell General Delivery

PREVIOUS AND/OR CURRENT LEASES Twenty-nine Palms, California 92277



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14335 Date 8/21/88 Time 12:30 pm
 Name UNNAMED WELL Location: Co. SAN BERNARDINO State CALIF
 Sec. 2, 3339 Twp. 1N R. 8E ; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 2190 FT Quad. TWENTYNINE PALMS
 Sampler KG + J L

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

DESCRIPTION:

WATER TEMP. °C	<u>53°C AS PER LITERATURE</u>	DISCHARGE	<u>NONE</u> gpm/Lpm
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>35°C</u>	DEPTH	<u>340' OF PULLED PIPE</u>
ODOR	<u>NONE</u>	BORE	<u>6"</u>
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	<u>NONE</u>
FLUID TASTE	<u>METALLIC (FROM TANK)</u>	STATIC HEAD	<u>DRY?</u>
BUBBLING	<u>NO</u>	SCALING	<u>—</u>
BOILING	<u>NO</u>	TYPE OF PIPING	<u>—</u>
VEGETATION	<u>NONE</u>	ARTESIAN HEAD	<u>NO</u>

FLUID ISSUES FROM SPIGOT @ BACK OF ABANDONED HOUSE, WATER STAGNANT FOR LONG TIME. OPEN 6" CASING 15M

ROCK DATA:
 TYPE (SURFACE) Qal (coarse)
 COLOR gray brown
 GRAIN SIZE coarse + medium
 MEGASCOPIC MINERALS gravel

SALT: NORTH OF HOUSE
NONE
 TYPE _____
 QUANTITY _____
 COLOR _____
 FORM _____

ALTERATION none
 RX TYPE (AT DEPTH) same
 WATER USED FOR IMMEDIATE AREA nothing -
 USED FOR abandoned

SINTER: NONE
 TYPE _____
 QUANTITY _____
 COLOR _____
 FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION aquifer
 PROPERTY OWNED BY _____
 PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14336 Date 8-21-80 Time 2:45

Name Unnamed in 29 Palms Location: Co. San Bernadino State Calif.

Sec. 29 Twp. 1N R. 9E ; _____ km/mi _____ OF _____

Lat. 34° 00' Long. 116° 15' Elevation 2100 Quad. Twenty-nine Palms

Sampler JLP R2

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

DESCRIPTION:

WATER TEMP. °C 31° C (48° C supposed to be in area) DISCHARGE ? gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 35

DEPTH _____

ODOR none

BORE _____

FLUID COLOR clear

PUMP TYPE _____

FLUID TASTE good

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING _____

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM faucet, probably from tank, maybe from city water supply?

ROCK DATA:

TYPE (SURFACE) Qal coarse

COLOR light yellow brown

GRAIN SIZE coarse

MEGASCOPIIC MINERALS gravel

SALT: NONE

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION none

SINTER: NONE

RX TYPE (AT DEPTH) Qal

TYPE _____

WATER USED FOR IMMEDIATE AREA domestic

QUANTITY _____

USED FOR Mormon

COLOR _____

church

FORM _____

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

PROBABLE CAUSE OF MANIFESTATION aquifer

PROPERTY OWNED BY Mormon Church?

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14337 Date 8/21/80 Time 2:05 pm
Name MAUK WELL Location: Co. SAN BERNARDINO State CALIF
Sec. 7, 2331 Twp. 1N R. 9E ; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 1890 FT Quad. TWENTYNINE PALMS
Sampler KC WJL

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

DESCRIPTION:

WATER TEMP. °C 27°c DISCHARGE VARIABLE gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 35°c

DEPTH 156'

ODOR NONE

BORE 8"

FLUID COLOR CLEAR

PUMP TYPE WINDMILL

FLUID TASTE GOOD

STATIC HEAD 122'

BUBBLING No

SCALING NONE

BOILING No

TYPE OF PIPING 1.5" GALVANIZED

VEGETATION —

ARTESIAN HEAD NO

FLUID ISSUES FROM SPIGOT @ WELL HEAD

ROCK DATA:

OF WINDMILL; REPUTED 1ppm F⁻

TYPE (SURFACE) Qal

(AS PER MR MAUK)

COLOR LIGHT BROWN

SALT: NONE

GRAIN SIZE COARSE

TYPE _____

MEGASCOPIC MINERALS _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION NONE

SINTER: NONE

RX TYPE (AT DEPTH) SAME

TYPE _____

WATER USED FOR IMMEDIATE AREA DOMESTIC

QUANTITY _____

USED FOR HOME

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY MAUK

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14338 Date 8/21/80 Time 3:15 pm
 Name UNNAMED WELL Location: Co. SAN BERNARDINO State CALIF
 Sec. 11, 3133 Twp. 1N R. 8E ; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 2200 Quad. TWENTY NINE PALMS
 Sampler KG + JL

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

DESCRIPTION:

WATER TEMP. °C 43°C FROM TANK - WATER REPORTED TO BE 160°F DISCHARGE VARIABLE gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 36°C

DEPTH ?

ODOR NONE

BORE ?

FLUID COLOR CLEAR

PUMP TYPE ELECTRIC JACK PUMP

FLUID TASTE GOOD

STATIC HEAD ?

BUBBLING NO

SCALING NO

BOILING NO

TYPE OF PIPING _____

VEGETATION NONE

ARTESIAN HEAD NO

FLUID ISSUES FROM SPIGOT FROM CLOSED

ROCK DATA:

TANK @ WELL HEAD / ACCESS FROM

TYPE (SURFACE) Qal

AGUA RD, OFF INDIAN TRAIL

COLOR LIGHT BROWN

SALT:

TYPE NaCl

GRAIN SIZE COARSE
MEGASCOPIC MINERALS _____

QUANTITY MODERATE

COLOR WHITE

FORM ENCrustATION ON SOIL

ALTERATION NONE

SINTER: NONE

AROUND SPIGOT & WELL HEAD

RX TYPE (AT DEPTH) SAME

TYPE _____

WATER USED FOR IMMEDIATE AREA DOMESTIC
USED FOR HOMES

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION FAULT UNDER "HOGBACK" STRIKING NNW

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14339 Date 8/21/80 Time 4:50 pm
 Name BUST WELL Location: Co. SAN BERNARDINO State CALIF.
 Sec. 31, 2244 Twp. 6N R. 14E ; km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 750' Quad. CADIZ
 Sampler KG + JL

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

DESCRIPTION:

WATER TEMP. °C	<u>32°C</u>	DISCHARGE	<u>VARIABLE</u> gpm/Lpm
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>30°C</u>	DEPTH	<u>~200'</u>
ODOR	<u>NONE</u>	BORE	_____
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	<u>ELECTRIC</u>
FLUID TASTE	<u>GOOD</u>	STATIC HEAD	<u>132'</u>
BUBBLING	<u>No</u>	SCALING	<u>NONE</u>
BOILING	<u>No</u>	TYPE OF PIPING	_____
VEGETATION	<u>GRASSES</u>	ARTESIAN HEAD	<u>No</u>
FLUID ISSUES FROM	<u>HOSE PLUM</u>	ROCK DATA:	
	<u>WELL HEAD</u>	TYPE (SURFACE)	<u>Qal</u>
	_____	COLOR	<u>LIGHT BROWN</u>
SALT:		GRAIN SIZE	<u>COARSE</u>
TYPE	<u>NONE</u>	MEGASCOPIC MINERALS	<u>-</u>
QUANTITY	_____		
COLOR	_____		
FORM	_____	ALTERATION	<u>NONE</u>
SINTER:		RX TYPE (AT DEPTH)	<u>SAME</u>
TYPE	<u>NONE</u>	WATER USED FOR IMMEDIATE AREA	<u>DOMESTIC</u>
QUANTITY	_____	USED FOR	<u>FARM</u>
COLOR	_____		
FORM	_____	QUALITY OF SAMPLE: EXC., <u>GOOD</u> , POOR	

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY FRANK McCONNEL

PREVIOUS AND/OR CURRENT LEASES _____



Photo WA3-13

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14340 Date 8/21/80 Time 5:30 PM
Name Shoshone Spring Location: Co. Inyo State Calif.
Sec. 30 Twp. 22N R. 7E ; 134 km/mi _____ OF _____
Lat. 35° 58.8' Long. 116° 16.2' Elevation 1615 Quad. Shoshone
Sampler W.A.

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

DESCRIPTION:

A number of small springs feed into pipe to feed pool.

WATER TEMP. °C 34°C DISCHARGE ~ 30 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 35.5°C

DEPTH _____

ODOR No

BORE _____

FLUID COLOR Clear

PUMP TYPE _____

FLUID TASTE O.K. tastes a little funny

STATIC HEAD _____

BUBBLING No

SCALING _____

BOILING No

TYPE OF PIPING _____

VEGETATION Yes! Trees, shrubs etc...

ARTESIAN HEAD _____

FLUID ISSUES FROM talus at base

ROCK DATA: vesicular

of hill.

TYPE (SURFACE) Basalt

COLOR black

SALT:

None

GRAIN SIZE ≤ 1mm

TYPE _____

MEGASCOPIC MINERALS phytoclere

QUANTITY _____

COLOR _____

FORM _____

ALTERATION None visible

SINTER:

None

RX TYPE (AT DEPTH) ?

TYPE _____

WATER USED FOR IMMEDIATE AREA _____

QUANTITY _____

USED FOR "private" pool.

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC, GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Fracture (fault) controlled,

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____

Photo
Missing

Photo WA 3-2

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14350 Date 8/21/80 Time 9:00AM

Name Well (Brown's) Location: Co. San Bernardino State Calif.

Sec. 30 Twp. 14N R. 9E : 321 km/mi _____ OF _____

Lat. 35° 16.4' Long. 116° 14' Elevation 950' Quad. Baker, Calif

Sampler W.A.

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

DESCRIPTION:

WATER TEMP. °C 26.0°C

DISCHARGE Variable gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 32°C

DEPTH 180'

ODOR No

BORE ~6"

FLUID COLOR Clear

PUMP TYPE electric irrigation

FLUID TASTE O.K.

STATIC HEAD -

BUBBLING No

SCALING minor

BOILING No

TYPE OF PIPING -

VEGETATION Yes

ARTESIAN HEAD -

FLUID ISSUES FROM tank connected

ROCK DATA:

to an electric irrigation

TYPE (SURFACE) Alluvium

pump

COLOR tan

SALT: None

GRAIN SIZE _____

TYPE /

MEGASCOPIC MINERALS _____

QUANTITY /

COLOR /

FORM /

ALTERATION No

SINTER: None

RX TYPE (AT DEPTH) Sediments

TYPE /

WATER USED FOR _____

QUANTITY /

IMMEDIATE AREA _____

COLOR /

USED FOR home(?)

FORM /

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY Mr. Brown

PREVIOUS AND/OR CURRENT LEASES _____



Photo WA3-3

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14351 Date 8/21/80 Time 9:00 AM
Name Taco Well Location: Co. San Bernardino State Calif.
Sec. 30 Twp. 14N R. 9E ; 323 km/mi _____ OF _____
Lat. 35° 16.4' Long. 116° 14' Elevation 950 Quad. Baker, Calif.
Sampler WA

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

DESCRIPTION:

WATER TEMP. °C 27°C

DISCHARGE Variable gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 32.5°C

DEPTH ?

ODOR No

BORE ~ 6"

FLUID COLOR Clear

PUMP TYPE Sub-pump

FLUID TASTE slightly salty

STATIC HEAD —

BUBBLING No

SCALING minor to none

BOILING No

TYPE OF PIPING zinc coated + plastic

VEGETATION Yes

ARTESIAN HEAD —

FLUID ISSUES FROM pipe connected to sub-pump.

ROCK DATA:

TYPE (SURFACE) Alluvium

COLOR tan

SALT: None

GRAIN SIZE
MEGASCOPIIC
MINERALS _____

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION None

SINTER: None

RX TYPE (AT DEPTH) sediments

TYPE _____

WATER USED FOR
IMMEDIATE AREA
USED FOR house

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC, GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



Photo WA3-M

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14352 Date 5/21/80 Time 10:00 AM
Name Saratoga Spring Location: Co. San Bernardino State Calif.
Sec. 3 Twp. 18N R. 5E ; 1332 km/mi _____ OF _____
Lat. 35° 41' Long. 116° 25.3' Elevation 195' Quad. Avawatz Pass
Sampler W.A.

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

DESCRIPTION:

WATER TEMP. °C 28°C DISCHARGE ~ 1 gpm
GROUND TEMP. °C _____ DISCHARGE difficult to gpm/Lpm
AIR TEMP. 37°C WELL DATA: determine because
ODOR No DEPTH of lush vegetation.
FLUID COLOR Clear BORE _____
FLUID TASTE Salty PUMP TYPE _____
BUBBLING No SCALING _____
BOILING No TYPE OF PIPING _____
VEGETATION Yes, abundant! ARTESIAN HEAD _____
FLUID ISSUES FROM Soil near base ROCK DATA:
of hillside TYPE (SURFACE) Limestone, sandstones
COLOR tan to dk grey
GRAIN SIZE _____
MEGASCOPIC MINERALS _____

SALT:

TYPE NaCl
QUANTITY fairly abundant
COLOR white
FORM Crusts
ALTERATION None visible

SINTER:

TYPE _____
QUANTITY _____
COLOR _____
FORM _____
RX TYPE (AT DEPTH) Same
WATER USED FOR IMMEDIATE AREA _____
USED FOR recreation
QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Fault controlled needs filtering
PROPERTY OWNED BY National Park
PREVIOUS AND/OR CURRENT LEASES No



Photo WA3-5

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14353 Date 8/21/00 Time 11:30 AM

Name Ibex Spring Location: Co. San Bernardino State Calif.

Sec. unsurveyed Twp. 19N R. 55 ; — km/mi _____ OF _____

Lat. 33° 46.5' Long. 116° 25' Elevation 1120 Quad. Shoshone, Calif.

Sampler W.A.

Sample Type: Spring (with pipe), well (with pipe), creek, river, soil, salt, sinter, travertine, gas, rock, snow soil, composed of gravel, cemented with a CaCO₃ kind of matrix.

DESCRIPTION:

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

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 37.5°C DEPTH _____

ODOR No BORE _____

FLUID COLOR Clear PUMP TYPE _____

FLUID TASTE Has a taste to it. STATIC HEAD _____

BUBBLING No SCALING _____

BOILING No TYPE OF PIPING _____

VEGETATION Yes, marsh ARTESIAN HEAD _____

FLUID ISSUES FROM soil at base

ROCK DATA:

of hill side TYPE (SURFACE) limestones

COLOR lt-dk grey

SALT:

GRAIN SIZE _____
MEGASCOPIC _____
MINERALS _____

TYPE NaCl

QUANTITY not too abundant

COLOR white

FORM crystals

ALTERATION None visible

SINTER:

RX TYPE (AT DEPTH) same

TYPE None

WATER USED FOR IMMEDIATE AREA USED FOR _____

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION fault controlled flow of H₂O?

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



Photo WA3-6

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14354 Date 8/21/80 Time 12:00 PM

Name Windmill Well Location: Co. Inyo State Calif

Sec. 9 Twp. 20N R. 7E ; 142 km/mi _____ OF _____

Lat. 35° 51.3' Long. 116° 14' Elevation 1320' Quad. Tecopa

Sampler W.A.

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

DESCRIPTION:

WATER TEMP. °C 26°C

DISCHARGE Variable gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 41°C

DEPTH ?

ODOR No

BORE ~ 6"

FLUID COLOR Clear

PUMP TYPE sub-pump

FLUID TASTE Good

STATIC HEAD -

BUBBLING No

SCALING Very minor

BOILING No

TYPE OF PIPING -

VEGETATION Yes; grass, trees,

ARTESIAN HEAD -

FLUID ISSUES FROM pipe connected

ROCK DATA:

to pumping sub-pump.

TYPE (SURFACE) poorly consolidated

COLOR alluvium; tan

SALT:

None

GRAIN SIZE
MEGASCOPIC
MINERALS

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION None visible

SINTER:

None

RX TYPE (AT DEPTH) Some thin seeds below.

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 _____



Photo WA3-7

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14355 Date 8/21/80 Time 12:30 PM

Name Tecopa Hot Spring Location: Co. Inyo State Calif.

Sec. 33 Twp. 21N R. 7E ; 3441 km/mi _____ OF _____

Lat. 35° 52.5' Long. 116° 14' Elevation 1420' Quad. Tecopa

Sampler W.A.

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

DESCRIPTION:

WATER TEMP. °C 43°C

DISCHARGE ~ 30 (gpm/Lpm)

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 40°C

DEPTH _____

ODOR No

BORE _____

FLUID COLOR Clear

PUMP TYPE _____

FLUID TASTE O.k.

STATIC HEAD _____

BUBBLING No.

SCALING _____

BOILING No

TYPE OF PIPING _____

VEGETATION Not really. In both house

ARTESIAN HEAD _____

FLUID ISSUES FROM pipe connected

ROCK DATA:

spring.

TYPE (SURFACE) Quartzitic Sandstone

COLOR white

SALT: None

GRAIN SIZE ~ 1 mm and smaller

TYPE _____

MEGASCOPIC MINERALS quartz

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER: None

RX TYPE (AT DEPTH) same? sediments?

TYPE _____

WATER USED FOR IMMEDIATE AREA _____

QUANTITY _____

USED FOR Hot spring

COLOR _____

recreation

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Fault controlled flow of H₂O

PROPERTY OWNED BY Inyo County

PREVIOUS AND/OR CURRENT LEASES Yes



Photo WA3-8

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14356 Date 8/21/80 Time 1:45 PM
Name Resting Spring Location: Co. Inyo State Calif
Sec. 31 Twp. 21N R. 8E ; 412 km/mi _____ OF _____
Lat. 35° 53' Long. 116° 9.5' Elevation 1750 Quad. Tecops
Sampler W.A.

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

difficult to determine because it's in a marsh

DESCRIPTION:

WATER TEMP. °C 27.5°C
GROUND TEMP. °C _____
AIR TEMP. 38°C
ODOR No
FLUID COLOR Clear
FLUID TASTE O.K.
BUBBLING No
BOILING No
VEGETATION Yes! Marsh

DISCHARGE 25 (gpm)/Lpm

WELL DATA:

DEPTH _____
BORE _____
PUMP TYPE _____
STATIC HEAD _____
SCALING _____
TYPE OF PIPING _____
ARTESIAN HEAD _____

FLUID ISSUES FROM talus pile at base of hill.

ROCK DATA:

TYPE (SURFACE) Quartzite
COLOR lt pink to grey
GRAIN SIZE ~ < 1mm
MEGASCOPIC MINERALS quartz

SALT:

None
TYPE _____
QUANTITY _____
COLOR _____
FORM _____

ALTERATION None visible

SINTER:

None
TYPE _____
QUANTITY _____
COLOR _____
FORM _____

RX TYPE (AT DEPTH) Some?

WATER USED FOR IMMEDIATE AREA USED FOR For nearby home

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Fault or fracture controlled flow of H₂O.

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



Photo WA3-9 and 10

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14357 Date 8/21/80 Time 2:30 PM

Name Willow Spring Location: Co. Inyo State Calif.

Sec. 25 Twp. 20N R. 7E ; 133 km/mi _____ OF _____

Lat. 35°48.2' Long. 116°11' Elevation 1400 Quad. Tecopa

Sampler W.A.

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

DESCRIPTION:

WATER TEMP. °C 25.5°C

DISCHARGE ~ 115 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 40°C

DEPTH _____

ODOR No

BORE _____

FLUID COLOR Clear

PUMP TYPE _____

FLUID TASTE O.K.

STATIC HEAD _____

BUBBLING No.

SCALING _____

BOILING No

TYPE OF PIPING _____

VEGETATION Yes! Abundant

ARTESIAN HEAD _____

FLUID ISSUES FROM pipe connected to spring. Dense vegetation prevented me from collecting from spring itself.

ROCK DATA:

TYPE (SURFACE) Stream Alluvium

COLOR tan

SALT:

TYPE None

GRAIN SIZE MEGASCOPIC MINERALS _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION None visible

SINTER:

None

RX TYPE (AT DEPTH) Tertiary alluvial fan deposits.

TYPE _____

WATER USED FOR IMMEDIATE AREA USED FOR irrigation

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Meteoric H₂O?

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



Photo WA3-1P

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14358 Date 8/21/80 Time 3:00 PM
Name Spring Location: Co. Idaho State Calif
Sec. 30 Twp. 21N R. 7E ; 4422 km/mi _____ OF _____
Lat. 35°53.3' Long. 116°15.5' Elevation 1350' Quad. Shoshone
Sampler W.A.

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

DESCRIPTION:

WATER TEMP. °C 31°C DISCHARGE ~5-7 (gpm/Lpm)
GROUND TEMP. °C — WELL DATA:
AIR TEMP. _____ DEPTH ?
ODOR Sulphurous BORE ~7"
FLUID COLOR Clear PUMP TYPE —
FLUID TASTE Not good!! STATIC HEAD _____
BUBBLING No SCALING _____
BOILING No TYPE OF PIPING _____
VEGETATION Yes; algae, grass ARTESIAN HEAD Flows out by itself.
FLUID ISSUES FROM cased drill hole. ROCK DATA:
TYPE (SURFACE) shales (plays like deposits?)
COLOR lt tan
GRAIN SIZE _____
MEGASCOPIC MINERALS _____
SALT: TYPE Minor NaCl ALTERATION None visible
QUANTITY minor RX TYPE (AT DEPTH) Some
COLOR white WATER USED FOR IMMEDIATE AREA USED FOR None
FORM Crust
SINTER: TYPE None QUANTITY _____
COLOR _____
FORM _____ QUALITY OF SAMPLE EXC, GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Fault controlled?
PROPERTY OWNED BY ?
PREVIOUS AND/OR CURRENT LEASES ?



WA 3-12

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 14359 Date 8/21/00 Time 4:00 PM

Name Salsberry Spring Location: Co. Inyo State Calif.

Sec. Unsurveyed Twp. 21N R. 5E ; _____ km/mi _____ OF _____

Lat. 35°56' Long. 116°25' Elevation 3320' Quad. Shoshone

Sampler W.A.

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

DESCRIPTION:

WATER TEMP. °C 23°C

DISCHARGE Seep gpm/Lpm

GROUND TEMP. °C -

WELL DATA:

AIR TEMP. 37°C

DEPTH _____

ODOR No

BORE _____

FLUID COLOR Milky, cloudy

PUMP TYPE _____

FLUID TASTE not too good.

STATIC HEAD _____

BUBBLING No

SCALING _____

BOILING No

TYPE OF PIPING _____

VEGETATION Yes; shrubs

ARTESIAN HEAD _____

FLUID ISSUES FROM talus on mtn. side; probably through fractures

ROCK DATA: welded + unwelded
TYPE (SURFACE) crystal-lithic tuffs

COLOR purplish red

SALT: None
TYPE _____

GRAIN SIZE ≤ 3mm
MEGASCOPIC MINERALS qtz, Feldspar,

QUANTITY _____

lithic

COLOR _____

numerous, small slickensides found in nearby rocks.

FORM _____

ALTERATION None

SINTER: None
TYPE _____

RX TYPE (AT DEPTH) Some?

QUANTITY _____

WATER USED FOR IMMEDIATE AREA USED FOR No use

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Unknown

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W 14950 Date 8-21-80 Time 12:45 PM

Name _____ Location: Co. Napa State CA

Sec. NE 1/4 SE 1/4 3 Twp. 7 R. 6W ; 1 1/4 km(mi) W OF Aetna Springs

Lat. _____ Long. _____ Elevation 1280 Quad. _____

Sampler _____

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

DESCRIPTION:

WATER TEMP. °C 34 °C

DISCHARGE 1-2 (gpm)/Lpm

GROUND TEMP. °C 24 °C

WELL DATA:

AIR TEMP. 33 °C

DEPTH _____

ODOR none

BORE _____

FLUID COLOR clear

PUMP TYPE _____

FLUID TASTE none

STATIC HEAD _____

BUBBLING no

SCALING _____

BOILING no

TYPE OF PIPING _____

VEGETATION chapparal

ARTESIAN HEAD _____

FLUID ISSUES FROM steel pipe

ROCK DATA:

TYPE (SURFACE) _____

COLOR _____

SALT:

GRAIN SIZE _____
MEGASCOPIIC
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 fault

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. W14951 Date 8-21-80 Time 2:30 PM

Name _____ Location: Co. Lake State CA

Sec. SE 1/4 SE 1/4 15 Twp. _____ R. 6W ; 6 1/2 km(mi) ESE OF Middletown

Lat. _____ Long. _____ Elevation 1380 Quad. Project 620 Map

Sampler Jim Gross

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

DESCRIPTION:

WATER TEMP. °C 22°C

DISCHARGE none gpm/Lpm

GROUND TEMP. °C 28°C

WELL DATA:

AIR TEMP. 34°C

DEPTH ?

ODOR none

BORE ~17'

FLUID COLOR clear

PUMP TYPE none

FLUID TASTE none

STATIC HEAD ~10' down

BUBBLING no

SCALING _____

BOILING no

TYPE OF PIPING none

VEGETATION grass around well

ARTESIAN HEAD _____

FLUID ISSUES FROM _____

ROCK DATA:

TYPE (SURFACE) misc. slide covering

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. W14952 Date 8-21-80 Time 3:50 PM

Name _____ Location: Co. Napa State CA

Sec. SE 1/4 NW 1/4 24 Twp. _____ R. 6W ; 8 km(mi) ESE OF Middletown

Lat. _____ Long. _____ Elevation 1420' Quad. _____

Sampler Jim Gross

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

DESCRIPTION:

WATER TEMP. °C 24°C DISCHARGE 2 (gpm)/Lpm

GROUND TEMP. °C 40°C partial shade WELL DATA:

AIR TEMP. 32°C DEPTH _____

ODOR slightly sulfur BORE _____

FLUID COLOR clear PUMP TYPE _____

FLUID TASTE none STATIC HEAD _____

BUBBLING no SCALING _____

BOILING no TYPE OF PIPING _____

VEGETATION grass/chapparral ARTESIAN HEAD _____

FLUID ISSUES FROM wide serpentine fault ROCK DATA:

zone in several areas 50-100' apart. Collected TYPE (SURFACE) serpentine

where several flows join + cascade into collection trough COLOR green

(over) GRAIN SIZE _____

SALT: TYPE _____ MEGASCOPIIC 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 fault controlled

PROPERTY OWNED BY Mikolajak

PREVIOUS AND/OR CURRENT LEASES _____

serpentine of Franciscan in probable fault contact with siliceous
crystal tuff of Sonoma (?) formation volcanics. May be
deeply circulating H_2O .



Call Harry Friday A.M.

Nita Garrison @ 4:00 PM

1975 EID
Bulletin - Pre EPA

✓ 16S 1W 10 324 - 300ft. - Chicken Well 27°C?

$F^- = 12$; $SiO_2 = 63$; $Na = 810$; $K = 8.8$; $Ca = 76$ Spf cond = 5000

? 18S 1W 31 321 - 380ft.

$F^- = 0.9$; $SiO_2 = 69$; $Na = 250$; $K = 27$; $Ca = 170$; $Mg = 37$

✓ 19S 4W 33 244 - 330 ft. 22°C

$F^- = 1.2$; $SiO_2 = 73$; $Na = 110$; $K = 5.2$; $Ca = 9.5$; $Mg = 4.1$

✓ 19S 4W 34 131 - 143ft. 23.5 Hatch City Well

$F^- = 0.9$; $SiO_2 = 72$; $Na = 64$; $K = 7.5$; $Ca = 20$; $Mg = 10$

✓ 19S 2W 3 122 260ft. - 2mi NE of Rincon

$F^- = 4.2$; $SiO_2 = 45$; $Na = 66$; $K = 14$; $Ca = 43$; $Mg = 13$

✓ 19S 2W 36 213 - 3 mi S of Rincon - crystals @ spring

$F^- = 17$; $SiO_2 = 53$; $Na = 1500$; $K = 210$; $Ca = 65$; $Mg = 5.3$

✓ 23S 2W 13 311 - Corralitos Ranch HQ - 300ft.

$F^- = 2.7$; $SiO_2 = 51$; $Na = 260$; $K = 15$; $Ca = 29$; $Mg = 10$

✓ 24S 3E 31 413 - Paul Price - 400ft. 29°C

$F^- = 1.4$; $SiO_2 = 61$; $Na = 530$; $K = 52$; $Ca = 220$; $Mg = 47$.

✓ 25S 3E 6 212 Paul Price - 400ft. 25°C

$F^- = 1.7$; $SiO_2 = 62$; $Na = 710$; $K = 64$; $Ca = 230$; $Mg = 58$

✓ 25S 3E 8 214 Dominguez Bros. - 250ft. 31.5?

$F^- = 1.4$; $SiO_2 = 53$; $Na = 420$; $K = 40$; $Ca = 170$; $Mg = 30$

25S 3E $\text{SiO}_2 \sim 60-50$ ppm
Sec. 17, 17, 18, 20

High Boron
25S 3E 18 224

25S 3E 8 421 - Gonzalez - 372 ft.

$F^- = 1.2$; $\text{SiO}_2 = 46$; $\text{Na} = 350$; $\text{K} = 39$; $\text{Ca} = 160$; $\text{Mg} = 27$

26S 2W 15 443 - 437 ft.

$F^- = 1.6$; $\text{SiO}_2 = 72$; $\text{Na} = 73$; $\text{K} = 11$; $\text{Ca} = 13$; $\text{Mg} = 2.6$

26S 3E High SiO_2

27S 2W 25 111 600 ft - Wheeler Cass 28°C

$F^- = 1.5$; $\text{SiO}_2 = 81$; $\text{Na} = 290$; $\text{K} = 42$; $\text{Ca} = 130$; $\text{Mg} = 22$
1.6 90 320 42 140 22

27 1E 33 330 - Gardner - 453 ft.

$27^\circ\text{C}?$

$F^- = 2.6$; $\text{SiO}_2 = 57$; $\text{Na} = 170$; $\text{K} = 14$; $\text{Ca} = 7.9$; $\text{Mg} = 7.7$