

A00087

TEC-23

— W13300 - W13431 —

Arizona & New Mexico (W13300 - W13431)
AMax Geothermal Geochemical Sample Forms

Arizona Counties: Apache, Cochise, Gila,
Graham, Greenlee, Maricopa, Pima, Pinal,
Santa Cruz.

New Mexico Counties: Grant, Hidalgo

24 F 38 (?)
RSFO

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13300 Date Aug 8 79 Time _____
Name POURING CW Location: Co. PINAL State AZ
Sec. NE 26 Twp. 3S R. 8E; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 1532 Quad. MAGMA
Sampler _____

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

DESCRIPTION:

WATER TEMP. °C 27° DISCHARGE ~500 gpm/Lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. _____ DEPTH ?
ODOR _____ BORE 16"
FLUID COLOR _____ PUMP TYPE IRP16
FLUID TASTE _____ STATIC HEAD _____
BUBBLING _____ SCALING _____
BOILING _____ TYPE OF PIPING STEEL
VEGETATION _____ ARTESIAN HEAD _____
FLUID ISSUES FROM IRP16 pump ROCK DATA:

TYPE (SURFACE) QAL
COLOR _____
GRAIN SIZE _____
MEGASCOPIC MINERALS _____

SALT:

TYPE _____
QUANTITY _____
COLOR _____
FORM _____ ALTERATION NO

SINTER:

TYPE _____ RX TYPE (AT DEPTH) _____
QUANTITY _____ WATER USED FOR IMMEDIATE AREA IRP16
COLOR _____ USED FOR COTTON
FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

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



R5F1

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

AUG 8 '79

Spring No. _____ Sample No. 13301 Date _____ Time _____

Name Z HORSE C&U Location: Co. PINAL State AZ

Sec. 34 Twp. 1N R. 10E; km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 2350 Quad. WEAVERS NEEDLE 7.5

Sampler 0

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

DESCRIPTION:

WATER TEMP. °C 23°

DISCHARGE 0 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH ~15 m

ODOR _____

BORE 8"

FLUID COLOR —

PUMP TYPE MYER

FLUID TASTE —

STATIC HEAD _____

BUBBLING —

SCALING _____

BOILING —

TYPE OF PIPING STEEL

VEGETATION —

ARTESIAN HEAD _____

FLUID ISSUES FROM STORAGE

ROCK DATA:

TANK

TYPE (SURFACE) QAL - WASH

COLOR _____

SALT:

GRAIN SIZE _____
MEGASCOPIC MINERALS _____

TYPE _____

QUANTITY X

COLOR _____

FORM _____

ALTERATION NO

SINTER:

RX TYPE (AT DEPTH) DALITE VOLCS

TYPE _____

WATER USED FOR IMMEDIATE AREA USED FOR HORSES RANCH

QUANTITY X

COLOR _____

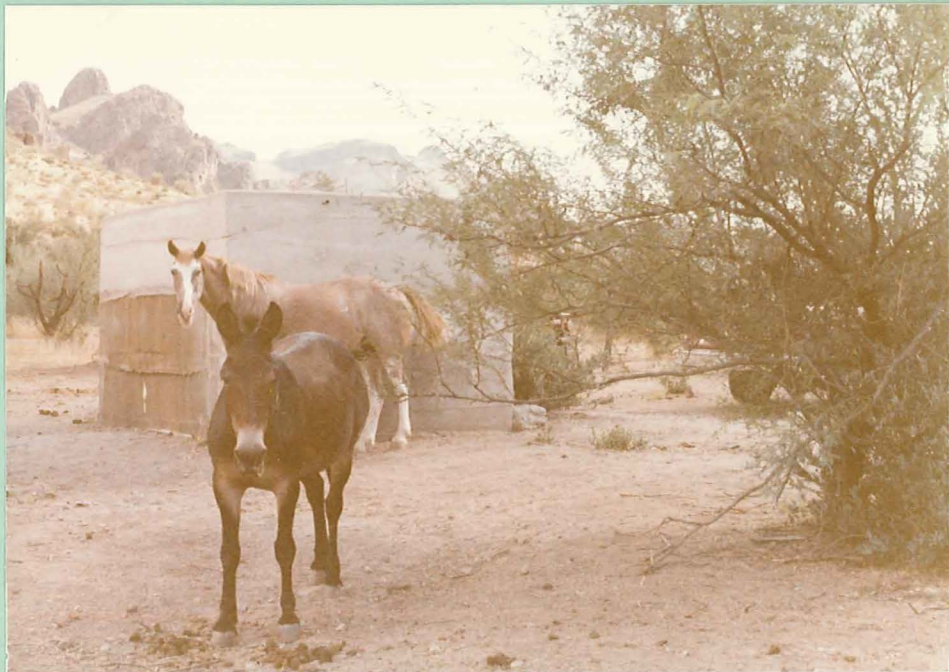
FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION MYER

PROPERTY OWNED BY 1/4 OV RANCH

PREVIOUS AND/OR CURRENT LEASES ?



SEND ANALYSIS TO:
W.R. LOFGREN
907 S. GERONIMO
APACHE JCT, AZ
85220

NO PHOTO



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13302 Date _____ Time _____

Name CURSED WW Location: Co. PINAL State AZ

Sec. SE 24 Twp. 1N R. 8E; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 1840 Quad. GOLDFIELD 7.5'

Sampler U

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

DESCRIPTION:

WATER TEMP. °C 26°

DISCHARGE 20 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH 355'

ODOR —

BORE 8"

FLUID COLOR —

PUMP TYPE SUBMERS.

FLUID TASTE BEST WATER OF THE SUMMER

STATIC HEAD 160'

BUBBLING —

SCALING _____

BOILING —

TYPE OF PIPING STEEL

VEGETATION —

ARTESIAN HEAD NO

FLUID ISSUES FROM STORAGE

ROCK DATA:

TANK OUTLET

TYPE (SURFACE) QAL

COLOR GRAY

SALT:

GRAIN SIZE
MEGASCOPIC
MINERALS _____

TYPE _____

QUANTITY X

COLOR _____

FORM _____

ALTERATION NO

SINTER:

RX TYPE (AT DEPTH) _____

TYPE _____

WATER USED FOR
IMMEDIATE AREA
USED FOR DOMESTIC
HOUSES

QUANTITY X

COLOR _____

FORM _____

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

PROBABLE CAUSE OF MANIFESTATION PUMP

PROPERTY OWNED BY LOFGREN

PREVIOUS AND/OR CURRENT LEASES _____

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Stolen

Spring No. _____ Sample No. 13303 Date 9.8.79 Time 11:25

Name Pole CW Location: Co. Gila State Az

Sec. unsurveyed Twp. _____ R. _____ ; 8 km(mi) W OF San Carlos

Lat. _____ Long. _____ Elevation 3154 Quad. Douville Canyon 7.5

Sampler JMD

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. 35°c

DEPTH ~ 2m

ODOR none

BORE 2"

FLUID COLOR clear

PUMP TYPE wind

FLUID TASTE none

STATIC HEAD -

BUBBLING -

SCALING -

BOILING -

TYPE OF PIPING steel

VEGETATION none

ARTESIAN HEAD seep?

FLUID ISSUES FROM seep around windmill casing; sample collected from tank

ROCK DATA:

TYPE (SURFACE) Gal - fine grain - playatype

COLOR _____

GRAIN SIZE MEGASCOPIC MINERALS _____

SALT:

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION ?

SINTER:

RX TYPE (AT DEPTH) ?

TYPE _____

WATER USED FOR IMMEDIATE AREA USED FOR cattle/horses

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION wind + H2O seep

PROPERTY OWNED BY San Carlos Indian Res

PREVIOUS AND/OR CURRENT LEASES _____

JMDR5F19

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13304 Date 09.08.79 Time 17:25

Name ELOY CW Location: Co. PINAL State AZ

Sec. SESESW SW 32 Twp. 7S R. 8E; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 1550 Quad. ELOY NORTH 7.5

Sampler JMD

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. 36°c

DEPTH ?

ODOR none

BORE 18"

FLUID COLOR clear

PUMP TYPE elect. irrigat.

FLUID TASTE great! none

STATIC HEAD -

BUBBLING -

SCALING CaCO3

BOILING -

TYPE OF PIPING steel

VEGETATION none

ARTESIAN HEAD _____

FLUID ISSUES FROM 18" steel pipe into pool this sampler used for bathing.

ROCK DATA:

TYPE (SURFACE) Quartz - plagioclase

COLOR _____

SALT:

GRAIN SIZE _____

TYPE _____

MEGASCOPIC MINERALS _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION ?

SINTER:

RX TYPE (AT DEPTH) ?

TYPE _____

WATER USED FOR IMMEDIATE AREA Crops
USED FOR _____

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: (9), GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION well.

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES ?

Well # 910

No photo

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Stolen

Spring No. _____ Sample No. 13305 Date 9-8-79 Time 15:00
 Name Woodruff #2 CW Location: Co. Pinal State Az
 Sec. SE 25 Twp. 5S R. 7E ; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 1405 Quad. Coolidge
 Sampler JMD

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

DESCRIPTION:

WATER TEMP. °C 26° DISCHARGE 100+ gpm/Lpm
 GROUND TEMP. °C _____ WELL DATA:
 AIR TEMP. 41° DEPTH ?
 ODOR _____ BORE _____
 FLUID COLOR _____ PUMP TYPE _____
 FLUID TASTE _____ STATIC HEAD _____
 BUBBLING _____ SCALING CaCO₃
 BOILING _____ TYPE OF PIPING _____
 VEGETATION _____ ARTESIAN HEAD _____
 FLUID ISSUES FROM irrigation well ROCK DATA:
 TYPE (SURFACE) Gal-plays
 COLOR _____
 GRAIN SIZE _____
 MEGASCOPIC MINERALS _____
 SALT: TYPE _____ ALTERATION _____
 QUANTITY _____
 COLOR _____
 FORM _____
 SINTER: RX TYPE (AT DEPTH) _____
 TYPE _____ WATER USED FOR IMMEDIATE AREA crops
 QUANTITY _____ USED FOR _____
 COLOR _____
 FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

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

NO PHOTO

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13306 Date AUG 9 79 Time _____
Name HARRY'S CW Location: Co. PINAL State AZ
Sec. SE 35 Twp. 4S R. 7E; km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 1373 Quad. BLACKWATER
Sampler 0

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

DESCRIPTION:

WATER TEMP. °C 25° DISCHARGE 200 gpm/Lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. _____ DEPTH ~600'
ODOR _____ BORE _____
FLUID COLOR _____ PUMP TYPE 1R216
FLUID TASTE SALTY, ?HARD STATIC HEAD _____
BUBBLING _____ SCALING _____
BOILING _____ TYPE OF PIPING _____
VEGETATION _____ ARTESIAN HEAD _____
FLUID ISSUES FROM 1R216 PUMP ROCK DATA:

TYPE (SURFACE) QAL
COLOR BROWN
GRAIN SIZE FG SMD -> CLAY
MEGASCOPIC MINERALS _____

SALT:
TYPE _____
QUANTITY _____
COLOR _____
FORM _____
ALTERATION NO

SINTER:
RX TYPE (AT DEPTH) QAL
TYPE _____ WATER USED FOR IMMEDIATE AREA 1R216
QUANTITY _____ USED FOR AG
COLOR _____
FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION PUMP
PROPERTY OWNED BY GILA RIVER IR
PREVIOUS AND/OR CURRENT LEASES _____

RSFY



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13307 Date AUG 9 79 Time _____

Name REPEAT CS Location: Co. MARICOPA State AZ

Sec. NE 19 Twp. 2N R. 8E ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 2003 Quad. MORMON FLAT DAM

Sampler J

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

DESCRIPTION:

WATER TEMP. °C 25° DISCHARGE ~2 gpm/Lpm

GROUND TEMP. °C _____ WELL DATA: NEARBY WM

AIR TEMP. _____ DEPTH 5m

ODOR _____ BORE 3' X 3' HAND DUG

FLUID COLOR _____ PUMP TYPE WM

FLUID TASTE _____ STATIC HEAD 2'

BUBBLING _____ SCALING _____

BOILING _____ TYPE OF PIPING _____

VEGETATION _____ ARTESIAN HEAD _____

FLUID ISSUES FROM WELDED TUFF ROCK DATA:

JOINTS IN WASH TYPE (SURFACE) WELDED TUFF

COLOR _____

SALT: GRAIN SIZE _____

TYPE _____ MEGASCOPIC MINERALS _____

QUANTITY X

COLOR _____

FORM _____ ALTERATION NO

SINTER: RX TYPE (AT DEPTH) VOLCS

TYPE _____ WATER USED FOR IMMEDIATE AREA _____

QUANTITY X USED FOR _____

COLOR _____

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

PROBABLE CAUSE OF MANIFESTATION NHF

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



RSF3



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13908 Date AUG 9 79 Time _____

Name TORTILLA CW Location: Co. MARICOPA State AZ

Sec. SW 23 Twp. 2N R. 10E ; @ _____ km/mi TORTILLA OF RANCH

Lat. _____ Long. _____ Elevation 3070 Quad. WEAVERS NEEDLE

Sampler C

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

DESCRIPTION:

WATER TEMP. °C 21° DISCHARGE 0 gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. _____ DEPTH ~ 10 m

ODOR — BORE HAND DUG 2' X 3'

FLUID COLOR BROWN - TURBID PUMP TYPE OLD WM - USE

FLUID TASTE — STATIC HEAD BUCKET NOW ~ 5m

BUBBLING — SCALING _____

BOILING — TYPE OF PIPING _____

VEGETATION — ARTESIAN HEAD _____

FLUID ISSUES FROM BUCKET ROCK DATA:

TYPE (SURFACE) QAL - WASH

COLOR _____

SALT: GRAIN SIZE _____

TYPE _____ MEGASCOPIC MINERALS _____

QUANTITY X _____

COLOR _____

FORM _____ ALTERATION NO

SINTER: RX TYPE (AT DEPTH) VOLECANES

TYPE _____ WATER USED FOR NOTHING

QUANTITY X IMMEDIATE AREA USED FOR RANCH

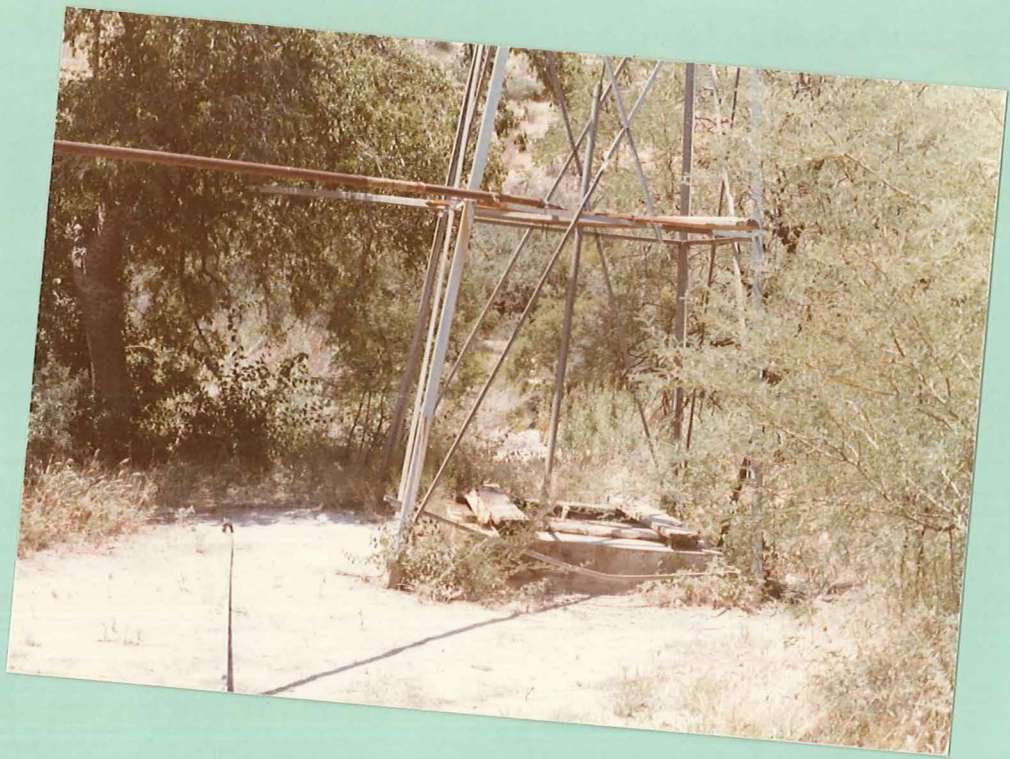
COLOR _____

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

PROBABLE CAUSE OF MANIFESTATION BUCKET (N.H.F)

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES _____



RSFS



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13309 Date AUG 9 79 Time _____
 Name NO INSPIRATION CW Location: Co. PINAL State AZ
 Sec. NWSW 29 Twp. 4S R. 9E; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 1457' Quad. FLORENCE
 Sampler C

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

DESCRIPTION:

WATER TEMP. °C 23° DISCHARGE 2200 gpm/Lpm
 GROUND TEMP. °C _____ WELL DATA: _____
 AIR TEMP. _____ DEPTH _____
 ODOR - BORE 16"
 FLUID COLOR - PUMP TYPE 1PC1G
 FLUID TASTE SLIGHT, ? STATIC HEAD _____
 BUBBLING - SCALING _____
 BOILING - TYPE OF PIPING _____
 VEGETATION - ARTESIAN HEAD _____

FLUID ISSUES FROM 1PC1G ROCK DATA: _____
PUMP TYPE (SURFACE) QAL
 COLOR _____

SALT: TYPE _____ GRAIN SIZE _____
 QUANTITY _____ MEGASCOPIC _____
 COLOR _____ MINERALS _____
 FORM _____ ALTERATION NO

SINTER: RX TYPE (AT DEPTH) ?
 TYPE _____ WATER USED FOR 1PC1G
 QUANTITY _____ IMMEDIATE AREA WT TON
 COLOR _____ USED FOR _____
 FORM _____ QUALITY OF SAMPLE: EXC, GOOD, POOR

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



HAND dug well

WADE Eckel
P.O. Box 913
Florence, AZ. 85302
no photo

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

96 RANCHA

Spring No. _____ Sample No. 13310 Date 8/9/79 Time 5:30
Name 96 RANCHA Location: Co. PINAL State AZ
Sec. 34 Twp. 6S R. 21E; km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 3080 Quad. 96 Hills SE
Sampler CW

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

DESCRIPTION:

WATER TEMP. °C 31^{0c} DISCHARGE ? 20 (gpm/Lpm)

GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. _____ DEPTH 15-20'
ODOR NONE BORE HAND dug
FLUID COLOR CLEAR PUMP TYPE Elec -
FLUID TASTE GOOD - NONE - STATIC HEAD _____
BUBBLING _____ SCALING _____
BOILING _____ TYPE OF PIPING _____
VEGETATION _____ ARTESIAN HEAD _____

FLUID ISSUES FROM Pipe (leak) ROCK DATA:
TYPE (SURFACE) Basalt in wash
COLOR _____

SALT: TYPE _____ GRAIN SIZE _____
QUANTITY _____ MEGASCOPIC _____
COLOR _____ MINERALS _____
FORM _____ ALTERATION minor (VON)

SINTER: RX TYPE (AT DEPTH) Granite
TYPE _____ WATER USED FOR Domestic
QUANTITY _____ IMMEDIATE AREA RANCHA
COLOR _____ USED FOR _____
FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION NAT. H₂O Flow
PROPERTY OWNED BY MR ECKEL
PREVIOUS AND/OR CURRENT LEASES _____

MLR3 F4

✓

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13310 Date 8-10-79 Time 1200

Name BOGIE CW Location: Co. MARICOPA State AZ

Sec. SWNW 20 Twp. 25 R. 5E; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 1195' Quad. GILA BUTTE 15'

Sampler MG 1/2 TB

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

DESCRIPTION:

WATER TEMP. °C 24

DISCHARGE 200 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH 11'

ODOR NONE

BORE 16"

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE NONE

STATIC HEAD _____

BUBBLING No

SCALING _____

BOILING No

TYPE OF PIPING _____

VEGETATION NONE

ARTESIAN HEAD _____

FLUID ISSUES FROM IRR. WELL

ROCK DATA:

TYPE (SURFACE) gal

COLOR _____

SALT:

GRAIN SIZE
MEGASCOPIC
MINERALS _____

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) _____

TYPE _____

WATER USED FOR
IMMEDIATE AREA
USED FOR _____

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



1rr. well

F36 R3W



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13812 Date 8/10/79 Time 4:00pm

Name ROAD well Location: Co. Pima State AZ

SE Sec. 32 Twp. 11S R. 6E; 6 km/mi EAST OF SANTA ROSA Mtns

Lat. _____ Long. _____ Elevation 1755 Quad. SANTA ROSA Mtns

Sampler CW

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

DESCRIPTION:

WATER TEMP. °C 28°C

DISCHARGE 150+ gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH ?

ODOR —

BORE 10"

FLUID COLOR CLEAR

PUMP TYPE MYERS

FLUID TASTE NONE

STATIC HEAD _____

BUBBLING ↓

SCALING _____

BOILING _____

TYPE OF PIPING _____

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM WELL Lrg IRRIGATION

ROCK DATA:

TYPE (SURFACE) Qz

COLOR _____

SALT:

GRAIN SIZE MEGASCOPIC MINERALS _____

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) ?

TYPE _____

WATER USED FOR IMMEDIATE AREA USED FOR FARM

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION NAT. NO TABLE

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES _____



RSFL

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13313 Date AUG 10 Time _____

Name JIG WW Location: Co. PINAL State AZ

Sec. SE NW 18 Twp. 6 S R. 9 E; 4 km/mi NNE OF LA PALMA

Lat. _____ Long. _____ Elevation 1512 Quad. VALLEY FARMS 7.5

Sampler U 2 FO

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

DESCRIPTION:

WATER TEMP. °C 35° DISCHARGE 500 gpm/Lpm

GROUND TEMP. °C _____ WELL DATA: DEPTH MOD DEEP

AIR TEMP. _____ BORE _____

ODOR _____ PUMP TYPE IRRIC

FLUID COLOR - STATIC HEAD _____

FLUID TASTE - SCALING _____

BUBBLING - TYPE OF PIPING _____

BOILING - ARTESIAN HEAD _____

VEGETATION -

FLUID ISSUES FROM PUMP ROCK DATA: TYPE (SURFACE) QAL

COLOR _____

SALT: TYPE _____ GRAIN SIZE _____ MEGASCOPIC MINERALS _____

QUANTITY _____

COLOR X ALTERATION NO

FORM _____ RX TYPE (AT DEPTH) QAL

SINTER: TYPE _____ WATER USED FOR IMMEDIATE AREA IRRIC

QUANTITY X USED FOR AG

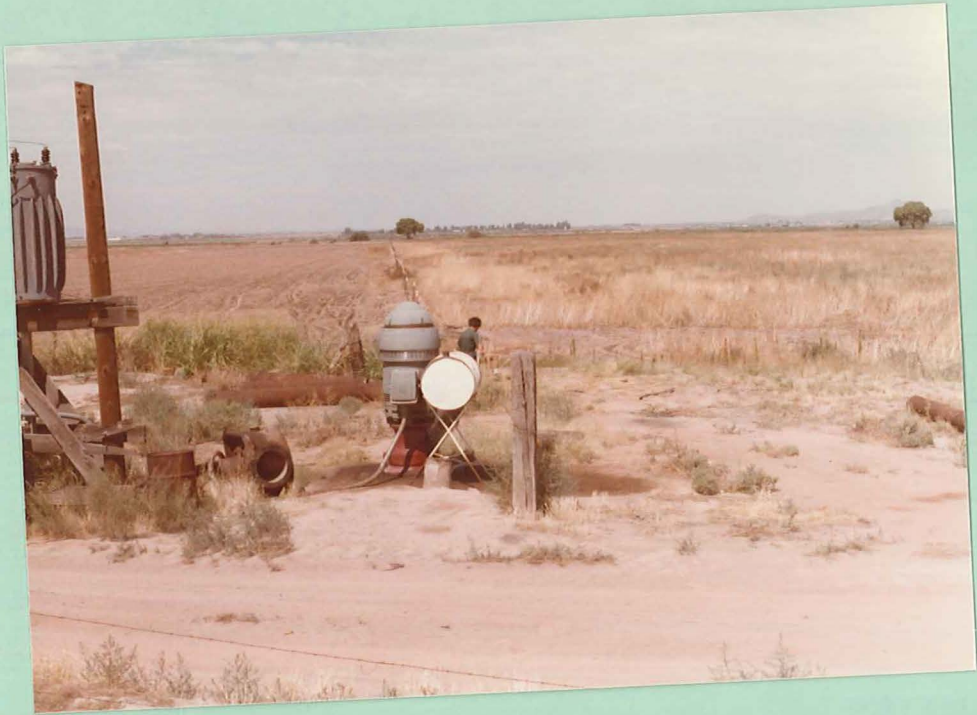
COLOR X

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

PROBABLE CAUSE OF MANIFESTATION PUMP

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



NO PHOTO

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13314 Date AUG 10 79 Time _____

Name DOUGLAS WW Location: Co. PINAL State AZ

Sec. SW 26 Twp. 55 R. 10E; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 1935 Quad. CACTUS FOREST

Sampler U & PD

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

DESCRIPTION:

WATER TEMP. °C 32.0

DISCHARGE 10 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH 650'

ODOR _____

BORE 8"

FLUID COLOR _____

PUMP TYPE JENSEN

FLUID TASTE _____

STATIC HEAD 545'

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING STEEL

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM JENSEN

ROCK DATA:

OUTLET PIPE

TYPE (SURFACE) QAL

COLOR _____

SALT:

GRAIN SIZE _____
MEGASCOPIC MINERALS _____

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION NO

SINTER:

RX TYPE (AT DEPTH) _____

TYPE _____

WATER USED FOR DOMESTIC
IMMEDIATE AREA USED FOR RANCH

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION JENSEN

PROPERTY OWNED BY ARMSTRONG

PREVIOUS AND/OR CURRENT LEASES _____

RSF8

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13315 Date AUG 10 Time _____

Name DISASTER CW Location: Co. PINAL State AZ

Sec. N 1/2 19 Twp. 4S R. 12E; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 1901 Quad. NORTH BUTTE 7.5

Sampler U

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

DESCRIPTION:

WATER TEMP. °C 25°

DISCHARGE ~ 2 gpm/lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH 70m

ODOR —

BORE 8"

FLUID COLOR GREEN

PUMP TYPE wm

FLUID TASTE —

STATIC HEAD 40m

BUBBLING —

SCALING _____

BOILING —

TYPE OF PIPING STEEL

VEGETATION GREEN ALGAE

ARTESIAN HEAD _____

FLUID ISSUES FROM WM STORAGE

ROCK DATA:

TANK

TYPE (SURFACE) TRIN QAL

COLOR _____

SALT:

GRAIN SIZE _____
MEGASCOPIC MINERALS _____

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION NO

SINTER:

RX TYPE (AT DEPTH) GRANODIORITE

TYPE _____

WATER USED FOR IMMEDIATE AREA CODE
USED FOR RANCH

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

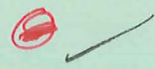
PROBABLE CAUSE OF MANIFESTATION wm

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



NO PHOTO



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13316 Date AUG 11 79 Time _____
 Name MIS GIVINGS CW Location: Co. PINAL State AZ
 Sec. SE 8 Twp. 7S R. 9E; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 1535' Quad. PICACHO RES.
 Sampler OTB

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

DESCRIPTION:

WATER TEMP. °C 25° DISCHARGE 25 gpm/Lpm
 GROUND TEMP. °C _____ WELL DATA:
 AIR TEMP. _____ DEPTH 250'
 ODOR — BORE 8"
 FLUID COLOR — PUMP TYPE JENSEN
 FLUID TASTE — STATIC HEAD 190'
 BUBBLING — SCALING _____
 BOILING — TYPE OF PIPING _____
 VEGETATION — ARTESIAN HEAD _____

FLUID ISSUES FROM STORAGE TANK ROCK DATA:
OFF OF JENSEN TYPE (SURFACE) QAL
 COLOR _____

SALT: TYPE _____ GRAIN SIZE _____
 QUANTITY X MEGASCOPIC _____
 COLOR _____ MINERALS _____
 FORM _____ ALTERATION NO

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

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

25 F 9



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13317 Date Aug 11 79 Time _____
 Name DEEP CW Location: Co. PINAL State AZ
 Sec. NW 4 Twp. 8S R. 10E; @ _____ km/mi DEEP WELL RANCH OF _____
 Lat. _____ Long. _____ Elevation 1937 Quad. PICACHO RES. SE
 Sampler Ce TB

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

DESCRIPTION:

WATER TEMP. °C ~26° DISCHARGE 0 gpm/Lpm
 GROUND TEMP. °C _____ WELL DATA: _____
 AIR TEMP. _____ DEPTH ?
 ODOR _____ BORE 8"
 FLUID COLOR _____ PUMP TYPE SUBMERSIBLE
 FLUID TASTE _____ STATIC HEAD ~400' (?)
 BUBBLING _____ SCALING _____
 BOILING _____ TYPE OF PIPING WHITE PVC
 VEGETATION _____ ARTESIAN HEAD _____
 FLUID ISSUES FROM STORAGE ROCK DATA: _____
TANK TYPE (SURFACE) QAL
 _____ COLOR _____
 SALT: _____ GRAIN SIZE _____
 TYPE _____ MEGASCOPIC _____
 QUANTITY _____ MINERALS _____
 COLOR _____
 FORM _____ ALTERATION _____
 SINTER: _____ RX TYPE (AT DEPTH) GRANITE
 TYPE _____ WATER USED FOR HORSES
 QUANTITY _____ IMMEDIATE AREA _____
 COLOR _____ USED FOR RANCH
 FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____
 PROPERTY OWNED BY DEEP WELL RANCH (WALKER)
 PREVIOUS AND/OR CURRENT LEASES _____



RSF10



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

AUG 11 79

Spring No. _____ Sample No. 13318 Date _____ Time _____

Name WAKE UP WW Location: Co. PINAL State AZ

Sec. CENTUR 16 Twp. 9S R. 10E; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 1905 Quad. PEO ROCK 15'

Sampler Cre TB

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

DESCRIPTION:

WATER TEMP. °C 39.0

DISCHARGE 600 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH _____

ODOR —

BORE _____

FLUID COLOR —

PUMP TYPE IRIG

FLUID TASTE _____

STATIC HEAD _____

BUBBLING —

SCALING _____

BOILING —

TYPE OF PIPING STEEL

VEGETATION —

ARTESIAN HEAD _____

FLUID ISSUES FROM OUTLET PIPE

ROCK DATA:

1/4 mile E. of well,
water mixed before IRIG.

TYPE (SURFACE) QAL

COLOR _____

SALT:

GRAIN SIZE
MEGASCOPIC
MINERALS _____

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION NO

SINTER:

RX TYPE (AT DEPTH) _____

TYPE _____

WATER USED FOR
IMMEDIATE AREA
USED FOR IRIG
AG

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION PUMP

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



ASR3F27

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13319 Date 8-8-79 Time 12:00 Noon

Name Not Very WS Location: Co. Gila State AZ

Sec. Unsurveyed Twp. 1N R. ? ; 3 km/mi north OF Red Rock Tank

Lat. 33° 27' Long. 110° 12' Elevation 4040' Quad. Bronco Gulch 7.5

Sampler AS

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

DESCRIPTION:

WATER TEMP. °C 29°C

DISCHARGE 10's gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 35°C

DEPTH _____

ODOR none

BORE _____

FLUID COLOR clear

PUMP TYPE _____

FLUID TASTE slight taste (?)

STATIC HEAD _____

BUBBLING no

SCALING _____

BOILING no

TYPE OF PIPING _____

VEGETATION lillys, etc.

ARTESIAN HEAD _____

FLUID ISSUES FROM limestone at stream bank.

ROCK DATA:

TYPE (SURFACE) limestone

COLOR buff to gray

GRAIN SIZE fine

MEGASCOPIC MINERALS w/ chert

SALT:

TYPE no

QUANTITY _____

COLOR _____

FORM _____

ALTERATION no

SINTER:

RX TYPE (AT DEPTH) same

TYPE no

WATER USED FOR IMMEDIATE AREA none

QUANTITY _____

USED FOR rec.

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY San Carlos Apache Tribe

PREVIOUS AND/OR CURRENT LEASES ?



ASR 3 F 29 & 30

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13320 Date _____ Time 3:15 PM

Name Greene WW Location: Co. Pinal State AZ

Sec. NE/SE 36 Twp. 9S R. 7E; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 1665 Quad. Eloy 15'

Sampler AS ^{Tucson} ~~AMS~~ (AMS)

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

DESCRIPTION:

WATER TEMP. °C 32°C

DISCHARGE 200 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 37°C

DEPTH deep

ODOR none

BORE 24"

FLUID COLOR clear

PUMP TYPE turb.

FLUID TASTE OK

STATIC HEAD ?

BUBBLING no

SCALING no

BOILING no

TYPE OF PIPING steel

VEGETATION no

ARTESIAN HEAD ?

FLUID ISSUES FROM large irrig.

ROCK DATA:

pump

TYPE (SURFACE) Gal

COLOR ↓

SALT:

GRAIN SIZE MEGASCOPIIC MINERALS ↓

TYPE no

QUANTITY no

COLOR no

FORM no

ALTERATION X

SINTER:

RX TYPE (AT DEPTH) X

TYPE no

QUANTITY no

COLOR no

FORM no

WATER USED FOR IMMEDIATE AREA USED FOR cotton farming

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

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



HIT WILLIAMS

* Lots of CO₂ Gas ✓

Box 1
Miami AZ 85539

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Not
Surveyed

Spring No. _____ Sample No. 13321 Date 8/8/79 Time 11:30

Name Bubbling Well - Location: Co. _____ State AZ

Sec. _____ Twp. 1N R. 14E; 1 km/mi SW OF Miami

Lat. _____ Long. _____ Elevation 3675 Quad. 1N14E SW 7/2

Sampler cw / FD

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

DESCRIPTION:

WATER TEMP. °C 180c

DISCHARGE NONE gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH ?

ODOR CO₂

BORE 1M

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE _____

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING _____

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM _____

ROCK DATA:

TYPE (SURFACE) Bas along wash

COLOR _____

SALT:

GRAIN SIZE _____
MEGASCOPIC MINERALS _____

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) GRANITE

TYPE _____

WATER USED FOR IMMEDIATE AREA _____

QUANTITY _____

USED FOR ABIAN well

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY Mr Williams

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13322 Date 8/8/79 Time 1:30

Name Sulfite Spg Location: Co. Gila State AZ

Sec. 34 Twp. 15 R. 14E; $\frac{1}{2}$ km/mi N OF Sulfite Mine

Lat. _____ Long. _____ Elevation 4530 Quad. PINAL RANCH 7-5

Sampler AW/AD

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

DESCRIPTION: OUT of MINE AREA

WATER TEMP. °C 17° DISCHARGE 21 gpm/Lpm

GROUND TEMP. °C	_____	WELL DATA:	_____
AIR TEMP.	_____	DEPTH	_____
ODOR	<u>NONE - Musty?</u>	BORE	_____
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	_____
FLUID TASTE	<u>TASTELESS</u>	STATIC HEAD	_____
BUBBLING	_____	SCALING	_____
BOILING	_____	TYPE OF PIPING	_____
VEGETATION	_____	ARTESIAN HEAD	_____

FLUID ISSUES FROM	_____	ROCK DATA:	_____
_____	_____	TYPE (SURFACE)	<u>2 Haved phyllite</u>
_____	_____	COLOR	_____

SALT:	_____	GRAIN SIZE	_____
TYPE	_____	MEGASCOPIC	_____
QUANTITY	_____	MINERALS	_____
COLOR	_____	ALTERATION	<u>Fe-</u>
FORM	_____	RX TYPE (AT DEPTH)	_____

SINTER:	_____	WATER USED FOR	<u>CATTLE?</u>
TYPE	_____	IMMEDIATE AREA	_____
QUANTITY	_____	USED FOR	<u>MINING DRIB</u>
COLOR	_____	QUALITY OF SAMPLE: EXC., <u>GOOD</u> , POOR	_____
FORM	_____		_____

PROBABLE CAUSE OF MANIFESTATION Nat. WATER TABLE ALONG Fault?

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13323 Date 8/6/79 Time 2:00 pm

Name HARDLUCK WELL Location: Co. GILA State AZ

Sec. _____ Twp. _____ R. _____ ; 1 km/mi N OF MANITOU HILL

Lat. _____ Long. _____ Elevation 3700 Quad. INDEPENDENCE

Sampler CW/PD

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

DESCRIPTION:

WATER TEMP. °C 23.50

DISCHARGE 65 (gpm/Lpm)

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH 30+ M

ODOR NONE

BORE 10"

FLUID COLOR CLEAR

PUMP TYPE Submersible - ELEC

FLUID TASTE TARTNESS

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING _____

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM _____

ROCK DATA:

TYPE (SURFACE) GRANITE

COLOR _____

SALT:

GRAIN SIZE MEGASCOPIC MINERALS _____

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) GRANITE

TYPE _____

WATER USED FOR IMMEDIATE AREA USED FOR MINE USE
MINING

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION NAT. AZO TROUBLE

PROPERTY OWNED BY INDEPENDENCE MINE

PREVIOUS AND/OR CURRENT LEASES _____

Attiler
Spq
NBT
surveyed





JMD 25 F18
No photo

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

stolen

Spring No. _____ Sample No. 13324 Date 8.8.79 Time 14:30
Name Woodruff HW Location: Co. Pinal State AZ
Sec. 24 Twp. 5S R. 7E; km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 1393 Quad. Coolidge 7.5
Sampler JMD

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

DESCRIPTION:

WATER TEMP. °C 45°c DISCHARGE 100+ gpm/Lpm
GROUND TEMP. °C 44°c WELL DATA:
AIR TEMP. 41°c DEPTH ?
ODOR none BORE 18"
FLUID COLOR clear PUMP TYPE irrigat (elect)
FLUID TASTE salt (slight) STATIC HEAD ?
BUBBLING - SCALING CaCO3
BOILING - TYPE OF PIPING steel
VEGETATION - ARTESIAN HEAD -
FLUID ISSUES FROM irrigation well ROCK DATA:

TYPE (SURFACE) Qal-plays
COLOR _____

SALT: TYPE _____ GRAIN SIZE _____
QUANTITY _____ MEGASCOPIIC _____
COLOR _____ MINERALS _____
FORM _____

ALTERATION ?
RX TYPE (AT DEPTH) ?

WATER USED FOR IMMEDIATE AREA Crops
USED FOR _____

QUALITY OF SAMPLE: *EXC., GOOD, POOR

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

JMD R51-20
No Photo

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13325 Date 10-09-79 Time 13:30

Name Signal Peak well Location: Co. Pinal State AZ

Sec. _____ Twp. _____ R. _____ ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation _____ Quad. Casa Grande East 2.5

Sampler JMD

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

DESCRIPTION:

WATER TEMP. °C 32^o

DISCHARGE 75-100 gpm/Lpm

GROUND TEMP. °C -

WELL DATA:

AIR TEMP. -

DEPTH ?

ODOR none

BORE 18"

FLUID COLOR clear

PUMP TYPE elect.

FLUID TASTE none

STATIC HEAD -

BUBBLING -

SCALING CaCO₃

BOILING -

TYPE OF PIPING steel

VEGETATION -

ARTESIAN HEAD -

FLUID ISSUES FROM 18" inject pipe
(steel)

ROCK DATA:
TYPE (SURFACE) Gal -adj to Signal Pk.

COLOR _____

SALT:

GRAIN SIZE
MEGASCOPIC
MINERALS _____

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) _____

TYPE _____

WATER USED FOR IMMEDIATE AREA USED FOR Crops

QUANTITY _____

COLOR _____

FORM _____

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

PROBABLE CAUSE OF MANIFESTATION well

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____

ASR3F31

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13326 Date 11-8-79 Time 9:00 Am
Name Stanfield CW Location: Co. Pinal State AZ
Sec. SW/NW 4 Twp. 7S R. 4E ; km/mi _____ OF _____
Lat. _____ Long. _____ Elevation _____ Quad. Double Peak 7.5'
Sampler MO & AS

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

DESCRIPTION:

WATER TEMP. °C 29°C DISCHARGE 200 ± (gpm/Lpm)
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. 36.5 DEPTH ?
ODOR _____ BORE 24"
FLUID COLOR clear PUMP TYPE turbine
FLUID TASTE good STATIC HEAD ?
BUBBLING no SCALING slight CaCO₃
BOILING no TYPE OF PIPING steel
VEGETATION no ARTESIAN HEAD ?
FLUID ISSUES FROM well-pumping ROCK DATA:

TYPE (SURFACE) Gal
COLOR ↓

SALT: TYPE _____ GRAIN SIZE _____
QUANTITY no MEGASCOPIC MINERALS _____
COLOR _____

FORM _____ ALTERATION ///

SINTER: RX TYPE (AT DEPTH) ///

TYPE _____ WATER USED FOR IMMEDIATE AREA irrigation
QUANTITY no USED FOR cotton
COLOR _____

FORM _____ QUALITY OF SAMPLE: EXC. GOOD, POOR

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



JMD R5 F21 No photo

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13327 Date 11.9.79 Time 14:45
Name CORRY CW Location: Co. PINAL State AZ
Sec. SESESE Ne35 Twp. 8s R. 6E ; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 1545 Quad. ELOY 15'
Sampler AS + JMD

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

DESCRIPTION:

WATER TEMP. °C 30° DISCHARGE 100+ gpm/Lpm
GROUND TEMP. °C - WELL DATA:
AIR TEMP. - DEPTH ?
ODOR none BORE 18"
FLUID COLOR clear PUMP TYPE elect. irrigator
FLUID TASTE none STATIC HEAD -
BUBBLING - SCALING slight CaCO3
BOILING - TYPE OF PIPING steel
VEGETATION brown rye along ARTESIAN HEAD _____
FLUID ISSUES FROM irrigator pipe adjacent ROCK DATA:
to pump. TYPE (SURFACE) Dal - playa type
COLOR _____

SALT:

TYPE _____ GRAIN SIZE _____
QUANTITY / MEGASCOPIC _____
COLOR _____ MINERALS _____
FORM _____ ALTERATION ?

SINTER:

TYPE _____ RX TYPE (AT DEPTH) probably allow to get dry
QUANTITY / WATER USED FOR crops
COLOR _____ IMMEDIATE AREA _____
FORM _____ USED FOR _____
QUALITY OF SAMPLE: (EXC.) GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION well + pump
PROPERTY OWNED BY ?
PREVIOUS AND/OR CURRENT LEASES ?

F2 R4CW ✓

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13328 Date 8/11/79 Time 3:30 pm

Name MANVILLE WELL Location: Co. Pima State AZ

SE Sec. 16 Twp. 13S R. 10E ; 3 km/mi S OF W. AVRA COTTAGE

Lat. _____ Long. _____ Elevation 2143 Quad. Silver Bell Peak

Sampler CW

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

DESCRIPTION:

WATER TEMP. °C 38°

DISCHARGE 100 + (gpm/Lpm)

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH ?

ODOR NBNO

BORE 12"

FLUID COLOR Clear

PUMP TYPE Huge - MYERS

FLUID TASTE NBNO

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING _____

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM 12' pipes

ROCK DATA:

TYPE (SURFACE) Bas

COLOR _____

SALT:

GRAIN SIZE _____
MEGASCOPIC MINERALS _____

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION ?

SINTER:

RX TYPE (AT DEPTH) ? old Seds?

TYPE _____

WATER USED FOR IMMEDIATE AREA USED FOR IRRIGATION
FARMING

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR GOOD

PROBABLE CAUSE OF MANIFESTATION NATURAL WATER TABLE

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES _____

F324cw

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13329 Date 8/4/77 Time 6:00 pm
Name WELL 10 Location: Co. Pima State Az
Sec. 12 Twp. 11S R. 10E ; 2 km/mi SW OF NAVISTKA
Lat. _____ Long. _____ Elevation 1911 Quad. SILVERWELL Peak
Sampler CW

SW

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

DESCRIPTION:

WATER TEMP. °C 24.5° DISCHARGE 100 + gpm/Lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. _____ DEPTH ?
ODOR _____ BORE 18"
FLUID COLOR CLEAR PUMP TYPE Perbas
FLUID TASTE NBNG STATIC HEAD _____
BUBBLING _____ SCALING _____
BOILING _____ TYPE OF PIPING _____
VEGETATION _____ ARTESIAN HEAD _____
FLUID ISSUES FROM 18" pipe ROCK DATA:
TYPE (SURFACE) Dol (soil)
COLOR _____
GRAIN SIZE _____
MEGASCOPIC _____
MINERALS _____

SALT:

TYPE _____
QUANTITY _____
COLOR _____
FORM _____ ALTERATION -

SINTER:

TYPE _____ RX TYPE (AT DEPTH) ?
QUANTITY _____ WATER USED FOR IMMEDIATE AREA IRRIGATION
COLOR _____ USED FOR Farming
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. 13330 Date 12.8.79 Time 9:25
 Name Caliente WS Location: Co. Pima State AZ
 Sec. SESE SW 20 Twp. 13s R. 16E ; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 2750 Quad. Bellotta Ranch 15'
 Sampler JMD

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

DESCRIPTION:

WATER TEMP. °C 31° DISCHARGE ~5 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 none ARTESIAN HEAD _____

FLUID ISSUES FROM Spring in granitic alluvium; concrete pump house sits above spring + sample was collected

ROCK DATA:

TYPE (SURFACE) Gal - river sed. granitic hills
 COLOR _____
 GRAIN SIZE _____
 MEGASCOPIC MINERALS _____

SALT: beneath steel door.
 TYPE _____
 QUANTITY _____
 COLOR _____
 FORM _____

ALTERATION ?
 RX TYPE (AT DEPTH) ?

SINTER:
 TYPE _____
 QUANTITY _____
 COLOR _____
 FORM _____

WATER USED FOR IMMEDIATE AREA Ranch horse + grounds
 USED FOR "

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Nat. Hydrol. flow
 PROPERTY OWNED BY _____
 PREVIOUS AND/OR CURRENT LEASES _____

JUDS F 24

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13331 Date 13.08.79 Time 17:05
Name Gilda CRAW Location: Co. Cochise State Az
Sec. NELNW 16 Twp. 16S R. 19E ; km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 3750 Quad. Happy Valley
Sampler JMD

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

DESCRIPTION:

WATER TEMP. °C ~29 - solar heated DISCHARGE var. gpm/Lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. _____ DEPTH ~2-5m
ODOR none BORE _____
FLUID COLOR slight green PUMP TYPE _____
FLUID TASTE none STATIC HEAD 5
BUBBLING _____ SCALING slight CaCO3
BOILING _____ TYPE OF PIPING _____
VEGETATION gr. algae ARTESIAN HEAD _____
FLUID ISSUES FROM water tank: from ROCK DATA:
windmill into tank TYPE (SURFACE) Biotite schist

SALT:

TYPE _____ COLOR dark grey -
QUANTITY _____ GRAIN SIZE Qtz: upto 5cm; bio -> km
COLOR _____ MEGASCOPIC MINERALS Biotite, Qtz, granite
FORM _____ rx around also; some garnet?

SINTER:

TYPE _____ ALTERATION ?
QUANTITY _____ RX TYPE (AT DEPTH) ?
COLOR _____ WATER USED FOR cattle
FORM _____ IMMEDIATE AREA USED FOR ranching

PROBABLE CAUSE OF MANIFESTATION wind

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

RSF11



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13332 Date AUG 13 79 Time _____
 Name CAKE CW Location: Co. PINAL State AZ
 Sec. NENE 10 Twp. 10S R. 9E; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 1790 Quad. RED ROCK
 Sampler U

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

DESCRIPTION:

WATER TEMP. °C 25° DISCHARGE 750 gpm/Lpm
 GROUND TEMP. °C _____ WELL DATA:
 AIR TEMP. _____ DEPTH _____
 ODOR _____ BORE _____
 FLUID COLOR _____ PUMP TYPE IRB16
 FLUID TASTE SALTY? STATIC HEAD _____
 BUBBLING YES SCALING _____
 BOILING _____ TYPE OF PIPING STEEL
 VEGETATION _____ ARTESIAN HEAD _____

FLUID ISSUES FROM IRB16 PUMP ROCK DATA:
PIPE TYPE (SURFACE) PAI
 COLOR _____

SALT: TYPE _____ GRAIN SIZE _____
 QUANTITY _____ MEGASCOPIC _____
 COLOR _____ MINERALS _____
 FORM _____ ALTERATION NO

SINTER: RX TYPE (AT DEPTH) _____
 TYPE _____ WATER USED FOR IRB16
 QUANTITY _____ IMMEDIATE AREA _____
 COLOR _____ USED FOR AG
 FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

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



RSF12

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13333 Date AUG 13 79 Time _____
Name SMOKE STACK CW Location: Co. PINAL State AZ
Sec. SE 14 Twp. 8S R. 8E; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 1640 Quad. RED ROCK
Sampler U

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

DESCRIPTION:

WATER TEMP. °C 26° DISCHARGE 750 gpm/Lpm ~~X~~
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. _____ DEPTH _____
ODOR _____ BORE _____
FLUID COLOR _____ PUMP TYPE 1P216
FLUID TASTE _____ STATIC HEAD _____
BUBBLING _____ SCALING _____
BOILING _____ TYPE OF PIPING _____
VEGETATION _____ ARTESIAN HEAD _____

FLUID ISSUES FROM 1P216 pump ROCK DATA:
TYPE (SURFACE) QAL
COLOR _____

SALT: TYPE _____ GRAIN SIZE _____
QUANTITY _____ MEGASCOPIC _____
COLOR _____ MINERALS _____
FORM _____ ALTERATION NO

SINTER: RX TYPE (AT DEPTH) ?
TYPE _____ WATER USED FOR IMMEDIATE AREA 1P216
QUANTITY _____ USED FOR AG
COLOR _____
FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

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



NO PHOTO

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13334 Date AUG 13 79 Time _____

Name GARY'S CW Location: Co. PINAL State AZ

Sec. NW SE 34 Twp. 8S R. 10E; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 1970 Quad. RED ROCK

Sampler J

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

DESCRIPTION:

WATER TEMP. °C 25°

DISCHARGE 40 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH ?

ODOR —

BORE 8"

FLUID COLOR —

PUMP TYPE SUBMERSIBLE

FLUID TASTE —

STATIC HEAD _____

BUBBLING —

SCALING _____

BOILING —

TYPE OF PIPING WHITE PVC

VEGETATION —

ARTESIAN HEAD _____

FLUID ISSUES FROM WHITE PVC

ROCK DATA:

OUTLET PIPE - RANCHER

TYPE (SURFACE) QAL

WAS PRESENT & STARTED IT

COLOR _____

UP FOR ME.

GRAIN SIZE
MEGASCOPIC
MINERALS _____

SALT: TYPE _____

QUANTITY X

COLOR X

FORM _____

ALTERATION NO

SINTER:

RX TYPE (AT DEPTH) QAL

TYPE _____

WATER USED FOR IMMEDIATE AREA
USED FOR CATTLE RANCH

QUANTITY X

COLOR X

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION pump

PROPERTY OWNED BY RANCHER

PREVIOUS AND/OR CURRENT LEASES _____

R5F13 6

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13335 Date Aug 13 79 Time _____

Name SUIZO CW Location: Co. PINAL State AZ

Sec. NW SW 17 Twp. 9S R. 12E; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 2700 Quad. TORTOLITA MTS

Sampler, _____

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

DESCRIPTION:

WATER TEMP. °C 24

DISCHARGE 25 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH ~30m

ODOR _____

BORE HAND DUG

FLUID COLOR _____

PUMP TYPE WM

FLUID TASTE HARD, ALK

STATIC HEAD ~15m

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING _____

VEGETATION GREEN ALGAE

ARTESIAN HEAD _____

FLUID ISSUES FROM WM OUTLET

ROCK DATA:

PIPE, SAMPLE IS FROM STORAGE TANK (CEMENT)

TYPE (SURFACE) QAL - WASH

COLOR _____

SALT:

GRAIN SIZE MEGASCOPIC MINERALS _____

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION YES

SINTER:

RX TYPE (AT DEPTH) MUSCOVITE SCHIST TO GRANODIORITE

TYPE _____

WATER USED FOR IMMEDIATE AREA USED FOR CATTLE PANEL

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION WM

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



NO PIPED



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13336 Date AUG 13 79 Time _____

Name DOG CW Location: Co. PINAL State AZ

Sec. NW 35 Twp. 8S R. 12E ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 2930 Quad. TORTOLITA MTN 15

Sampler U

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

DESCRIPTION:

WATER TEMP. °C 25.0

DISCHARGE ~2 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH 31'

ODOR _____

BORE HAND DUG

FLUID COLOR _____

PUMP TYPE WM + SUBMERS.

FLUID TASTE _____

STATIC HEAD 15'

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING WHITE PVC + STEEL

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM WM STAND

ROCK DATA:

PIPE

TYPE (SURFACE) QAL (10')

COLOR _____

SALT:

GRAIN SIZE _____
MEGASCOPIC MINERALS _____

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION NO

SINTER:

RX TYPE (AT DEPTH) GRANITE

TYPE _____

WATER USED FOR IMMEDIATE AREA USED FOR DOMESTIC RANCH

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION PUMP

PROPERTY OWNED BY RANCHER

PREVIOUS AND/OR CURRENT LEASES _____

ASR 3F 32 ✓

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13337 Date 13-8-79 Time 9:00AM

Name Grier CW Location: Co. Pima State AZ

Sec. SE 20 Twp. 11S R. 11E ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 1968 Quad. Marana 7.5

Sampler AS (Tucson AMS)

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

DESCRIPTION:

WATER TEMP. °C 24°C

DISCHARGE 250 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 31°C

DEPTH ?

ODOR none

BORE 24"

FLUID COLOR clear

PUMP TYPE turbine

FLUID TASTE good

STATIC HEAD ?

BUBBLING no

SCALING no

BOILING no

TYPE OF PIPING steel

VEGETATION no

ARTESIAN HEAD ?

FLUID ISSUES FROM irrig. well

ROCK DATA:

TYPE (SURFACE) Gal

COLOR _____

SALT:

GRAIN SIZE _____

TYPE _____

MEGASCOPIC MINERALS _____

QUANTITY no

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) _____

TYPE _____

WATER USED FOR cotton

QUANTITY no

IMMEDIATE AREA USED FOR cotton

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



ASR3F 33

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13398 Date 13-8-79 Time 5:30 AM
Name San Jo WW Location: Co. Pima State AZ
Sec. SW/SW 2 Twp. 14S R. 11E ; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 2415 Quad. Brown Mt. 7.5'
Sampler AS

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

DESCRIPTION:

WATER TEMP. °C 32°C DISCHARGE 5 (5) gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 37°C

DEPTH ?

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 submersible

ROCK DATA:

pump in 6" well

TYPE (SURFACE) gal

COLOR dark

SALT:

GRAIN SIZE volcanics

TYPE _____

MEGASCOPIC MINERALS _____

QUANTITY no

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) _____

TYPE _____

WATER USED FOR cattle

QUANTITY no

IMMEDIATE AREA

COLOR _____

USED FOR cattle

FORM _____

QUALITY OF SAMPLE: (EXC), GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



broken pump

178R4CW



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13339 Date 8/13/79 Time 4:30

Name Coyote Field Well Location: Co. Pima State AZ

Situated
BE QUERRY
WELL

Sec. SW 21 Twp. 13S R. 7E ; 12 km/mi W OF TWIN PEAKS

Lat. _____ Long. _____ Elevation 2029 Quad. Clara Hills

Sampler CW

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

DESCRIPTION:

WATER TEMP. °C 38

DISCHARGE NOT OPERATING gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 37

DEPTH ?

ODOR NONE

BORE 6"

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE NONE

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING _____

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM Pipe from

ROCK DATA:

well

TYPE (SURFACE) DOL

COLOR _____

SALT:

GRAIN SIZE _____

TYPE _____

MEGASCOPIC _____

QUANTITY _____

MINERALS _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) ?

TYPE _____

WATER USED FOR Domestic

QUANTITY _____

IMMEDIATE AREA _____

COLOR _____

USED FOR Indian Village

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION NATURAL W20 TABLE

PROPERTY OWNED BY PAPAGO INDIANS

PREVIOUS AND/OR CURRENT LEASES ?

F824cw



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13340 Date 8/13/99 Time 5:30
 Name USAF (because of trailer) Location: Co. Pima State AZ
 Sec. 8 Twp. 16S R. 7E; 3 km/mi NW OF SAN VICENTE
 Lat. _____ Long. _____ Elevation _____ Quad. SAN VICENTE
 Sampler CW

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. 35 DEPTH ?
 ODOR None BORE 8"
 FLUID COLOR None PUMP TYPE Levison
 FLUID TASTE None STATIC HEAD _____
 BUBBLING _____ SCALING _____
 BOILING _____ TYPE OF PIPING _____
 VEGETATION _____ ARTESIAN HEAD _____
 FLUID ISSUES FROM Pipe from Tank ROCK DATA:
 TYPE (SURFACE) Gr
 COLOR _____
 GRAIN SIZE _____
 MEGASCOPIC MINERALS _____
 SALT: TYPE _____ ALTERATION ?
 QUANTITY _____ RX TYPE (AT DEPTH) ?
 COLOR _____ WATER USED FOR IMMEDIATE AREA Domestic
 FORM _____ USED FOR RANCH
 SINTER: TYPE _____ QUANTITY _____
 COLOR _____
 FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

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

F4124CW ✓

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13341 Date 8/13/99 Time 10:00 am

Name DW WELL Location: Co. AMA State AZ

NE NE Sec. 27 Twp. 16S R. 9E; 5 1/2 km/mi SW OF Reddy Set.

Lat. _____ Long. _____ Elevation 2721 Quad. CORONA, BUTTE

Sampler CO

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

DESCRIPTION:

WATER TEMP. °C 27° DISCHARGE 5 gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. _____ DEPTH 11 + M

ODOR NONO BORE 10"

FLUID COLOR CLGAK PUMP TYPE MYER

FLUID TASTE NONO STATIC HEAD _____

BUBBLING _____ SCALING _____

BOILING _____ TYPE OF PIPING _____

VEGETATION _____ ARTESIAN HEAD _____

FLUID ISSUES FROM ROG INTO TANK ROCK DATA:

TYPE (SURFACE) OX

COLOR _____

GRAIN SIZE _____
MEGASCOPIC _____
MINERALS _____

SALT:

TYPE _____ ALTERATION 7

QUANTITY _____

COLOR _____

FORM _____ RX TYPE (AT DEPTH) ?

SINTER:

TYPE _____ WATER USED FOR CATTLE

QUANTITY _____ IMMEDIATE AREA USED FOR GRazing

COLOR _____

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

PROBABLE CAUSE OF MANIFESTATION NATURAL WATER TABLE

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES _____

FSRUCW



Abani Ranch

Secs

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13342 Date 8/13/79 Time 2:50 PM

Name La Tortuga Ranch Well Location: Co. Pima State Az

Sec. 33 Twp. 14S R. 9E ; 1/2 km/mi E OF La Tortuga Butte

Lat. _____ Long. _____ Elevation 2635 Quad. COCORACON Butte

Sampler GW

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

DESCRIPTION:

WATER TEMP. °C 27.5

DISCHARGE 1 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 35

DEPTH 22 M

ODOR NONE

BORE 8"

FLUID COLOR CLEAR

PUMP TYPE Windmill

FLUID TASTE NONE

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING _____

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM Pipe into tank

ROCK DATA:

TYPE (SURFACE) Coal

COLOR _____

SALT:

GRAIN SIZE _____
MEGASCOPIC MINERALS _____

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) Velc

TYPE _____

WATER USED FOR IMMEDIATE AREA CATTLE
USED FOR Grass

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC. GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



F6R460



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13343 Date 8/13/79 Time 4:00pm

Name PANTAK WELL Location: Co. Pima State AZ

SE Sec. 20 Twp. 16S R. 8E; 1/2 km(mi) E OF PANTAK

Lat. _____ Long. _____ Elevation 3434 Quad. SAN VICENTE

Sampler CW

Sample Type: Spring (with pipe), well (with pipe), creek, river, soil, salt, sinter, travertine, gas, rock, snow ACTUALLY ROCK TANK W/ PIPE

DESCRIPTION:

WATER TEMP. °C 28° DISCHARGE 4 l (gpm/Lpm)

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. 37° DEPTH ?

ODOR NONE BORE ?

FLUID COLOR _____ PUMP TYPE _____

FLUID TASTE _____ STATIC HEAD _____

BUBBLING _____ SCALING _____

BOILING _____ TYPE OF PIPING _____

VEGETATION _____ ARTESIAN HEAD _____

FLUID ISSUES FROM TANK - DID NOT FIND WELL ROCK DATA: TYPE (SURFACE) Bas (shallow)

SALT: TYPE _____ GRAIN SIZE _____ MEGASCOPIC MINERALS _____

QUANTITY _____

COLOR _____

FORM _____ ALTERATION _____

SINTER: RX TYPE (AT DEPTH) QUARTZ

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. 13344 Date 14.8.79 Time 11:10
Name DAVIDSON CS Location: Co. Pima State AZ
Sec. SWNE 19 Twp. 17S R. 17E; km/mi 3840 OF _____
Lat. _____ Long. _____ Elevation 3880 Quad. EMPIRE MTS 15'
Sampler JMD

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

DESCRIPTION:

WATER TEMP. °C 24° DISCHARGE ~5 gpm/Lpm
GROUND TEMP. °C - WELL DATA:
AIR TEMP. - DEPTH _____
ODOR none BORE _____
FLUID COLOR clear PUMP TYPE _____
FLUID TASTE none STATIC HEAD _____
BUBBLING - SCALING _____
BOILING - TYPE OF PIPING _____
VEGETATION grasses ARTESIAN HEAD _____
FLUID ISSUES FROM seep in midst ROCK DATA:
of vegetation esp grasses TYPE (SURFACE) Qal - good iron
COLOR _____

SALT:

TYPE _____ GRAIN SIZE _____
QUANTITY _____ MEGASCOPIC _____
COLOR _____ MINERALS _____
FORM _____ ALTERATION ?

SINTER:

RX TYPE (AT DEPTH) sed sequence limestone, ss, shales
TYPE _____ WATER USED FOR Ranch
QUANTITY _____ IMMEDIATE AREA _____
COLOR _____ USED FOR _____
FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Not hydro. flow
PROPERTY OWNED BY _____
PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13345 Date 14.8.79 Time 18:10
 Name Sahuarita CW Location: Co. PIMA State AZ
 Sec. SESESE 7 Twp. 17S R. 14E; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 2700 Quad. SAHUARITA 15'
 Sampler JMD

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

DESCRIPTION:

WATER TEMP. °C	<u>28°</u>	DISCHARGE	<u>150+</u>	gpm/Lpm
GROUND TEMP. °C	<u>-</u>	WELL DATA:		
AIR TEMP.	<u>-</u>	DEPTH	<u>~ 80m</u>	
ODOR	<u>none</u>	BORE	<u>24"</u>	
FLUID COLOR	<u>clear</u>	PUMP TYPE	<u>diesel</u>	
FLUID TASTE	<u>none</u>	STATIC HEAD	<u>-</u>	
BUBBLING	<u>-</u>	SCALING	<u>CaCO3</u>	
BOILING	<u>-</u>	TYPE OF PIPING	<u>steel</u>	
VEGETATION	<u>-</u>	ARTESIAN HEAD	<u>-</u>	
FLUID ISSUES FROM	<u>irrigation well</u>	ROCK DATA:		
		TYPE (SURFACE)	<u>Qal-</u>	
		COLOR	_____	

SALT:

TYPE	_____	GRAIN SIZE	_____
QUANTITY	_____	MEGASCOPIC	_____
COLOR	_____	MINERALS	_____
FORM	_____	ALTERATION	<u>?</u>

SINTER:

TYPE	_____	RX TYPE (AT DEPTH)	<u>?</u>
QUANTITY	_____	WATER USED FOR IMMEDIATE AREA	<u>Crops - Pecans</u>
COLOR	_____	USED FOR	<u>"</u>
FORM	_____	QUALITY OF SAMPLE:	<u>EXC</u> , GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION well + pump.
 PROPERTY OWNED BY ?
 PREVIOUS AND/OR CURRENT LEASES ?

R5 F14

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13346 Date 8-14-79 Time 1400
Name GUST WW Location: Co. PINAL State AZ
Sec. SE24 Twp. 9S R. 17E ; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 2550' Quad. CLARK RANCH 7.5'
Sampler CT & MG

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

DESCRIPTION:

WATER TEMP. °C 30° DISCHARGE 180 gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. _____ DEPTH _____

ODOR None BORE 16"

FLUID COLOR Clear PUMP TYPE Centrifugal

FLUID TASTE None STATIC HEAD _____

BUBBLING - SCALING _____

BOILING - TYPE OF PIPING _____

VEGETATION - ARTESIAN HEAD _____

FLUID ISSUES FROM artesian well w/pump ROCK DATA:

TYPE (SURFACE) Gal

COLOR _____

SALT: GRAIN SIZE _____

TYPE None MEGASCOPIC MINERALS _____

QUANTITY _____

COLOR _____

FORM _____ ALTERATION _____

SINTER: RX TYPE (AT DEPTH) _____

TYPE CaCO₃ WATER USED FOR irr.

QUANTITY minor IMMEDIATE AREA USED FOR farm

COLOR white

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

PROBABLE CAUSE OF MANIFESTATION fault controlled

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



Fid R4CW ✓

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13347 Date 8/14/79 Time 11:30 am
Name ANNUK RANCH WELL Location: Co. PIMA State Ariz
Sec. 1 Twp. 17S R. 8E; 7.5 km/mi 5 OF Pobles det
Lat. _____ Long. _____ Elevation 2750 Quad. Palo Alto Ranch
Sampler CW

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

DESCRIPTION:

WATER TEMP. °C 27.5 DISCHARGE ? gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. 85° DEPTH ?

ODOR NONE BORE 8"

FLUID COLOR CLEAR PUMP TYPE _____

FLUID TASTE NONE STATIC HEAD _____

BUBBLING _____ SCALING _____

BOILING _____ TYPE OF PIPING _____

VEGETATION _____ ARTESIAN HEAD _____

FLUID ISSUES FROM pipe from tank ROCK DATA:

TYPE (SURFACE) Qal

COLOR _____

SALT: TYPE _____ GRAIN SIZE _____
MEGASCOPIC MINERALS _____

QUANTITY _____

COLOR _____

FORM _____ ALTERATION ?

SINTER: RX TYPE (AT DEPTH) ?

TYPE _____ WATER USED FOR DRINK / DOMESTIC

QUANTITY _____ IMMEDIATE AREA USED FOR RANCH

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. 13348 Date 8/14/79 Time 2:00 PM

Name Rovero - Actually Williams Well Location: Co. Pima State AZ

NE Sec. 23 Twp. 17S R. 9E ; 3 km/mi 5 OF Avril Ranch

Lat. _____ Long. _____ Elevation 2850 Quad. Palo Alto Ranch

Sampler COO

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

DESCRIPTION:

WATER TEMP. °C 29°

DISCHARGE Variable gpm/Lpm

GROUND TEMP. °C _____

WELL DATA: _____

AIR TEMP. _____

DEPTH ?

ODOR ? MANURE?

BORE 8"

FLUID COLOR Cloudy

PUMP TYPE Submersible

FLUID TASTE Yech

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING _____

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM Well into tank, I sampled from tank.

ROCK DATA: _____

TYPE (SURFACE) Red

COLOR _____

SALT:

GRAIN SIZE MEGASCOPIC MINERALS _____

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) ? GRANITE OR META

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. 13349 Date 8/14/79 Time _____

Name OTERO Location: Co. Pima State Az

Sec. 20 Twp. 18S R. 8E ; 7 km/mi NE OF SABODUWARI PEAK

Lat. _____ Long. _____ Elevation 3500 Quad. SABODUWARI PEAK

Sampler CW

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

DESCRIPTION:

WATER TEMP. °C 25.5

DISCHARGE 5 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH 7

ODOR NONE

BORE 6"

FLUID COLOR CLEAR

PUMP TYPE WINOMII

FLUID TASTE NONE

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING _____

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM Pipe from Winamill

ROCK DATA:

TYPE (SURFACE) Qz

COLOR _____

SALT:

GRAIN SIZE MEGASCOPIC MINERALS _____

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) ? old sedos?

TYPE _____

WATER USED FOR IMMEDIATE AREA USED FOR CATTLE Grazing

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. 13350 Date 8-16-79 Time 1300

Name CALIENTE WS Location: Co. SANTA CRUZ State AZ

Sec. 13 Twp. 20S R. 13E; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 3930' Quad. MT. WRIGHTSON 15'

Sampler GROSS

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

DESCRIPTION:

WATER TEMP. °C 28°

DISCHARGE 50 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH _____

ODOR MINT

BORE _____

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE NONE

STATIC HEAD _____

BUBBLING No

SCALING _____

BOILING No

TYPE OF PIPING _____

VEGETATION MINT

ARTESIAN HEAD _____

FLUID ISSUES FROM SPRING TANK

ROCK DATA:

w/ pipe

TYPE (SURFACE) Sandstone

COLOR Rusty

SALT:

GRAIN SIZE med
MEGASCOPIC MINERALS _____

TYPE NONE

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) _____

TYPE NONE

WATER USED FOR IMMEDIATE AREA Domestic

QUANTITY _____

USED FOR Open Range

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION FAULT, OR SOLUTION CAVES IN CS

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13351 Date 16-8-79 Time 11:25
 Name Saddle Mt. CW Location: Co. Santa Cruz State Az
 Sec. NE NE 31 Twp. 22s R. 17E ; km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 5125 Quad. Lochiel 15'
 Sampler JMD

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

DESCRIPTION:

WATER TEMP. °C	<u>19.2°C @ 43m</u>	DISCHARGE	<u>variable</u> gpm/Lpm
GROUND TEMP. °C	<u>-</u>	WELL DATA:	
AIR TEMP.	<u>-</u>	DEPTH	<u>43m (?)</u>
ODOR	<u>none</u>	BORE	<u>4"</u>
FLUID COLOR	<u>clear</u>	PUMP TYPE	<u>wind</u>
FLUID TASTE	<u>none</u>	STATIC HEAD	<u>-</u>
BUBBLING	<u>-</u>	SCALING	<u>-</u>
BOILING	<u>-</u>	TYPE OF PIPING	<u>Steel</u>
VEGETATION	<u>-</u>	ARTESIAN HEAD	_____
FLUID ISSUES FROM	<u>steel pipe connected to windmill</u>	ROCK DATA:	
		TYPE (SURFACE)	<u>Rich Qal</u>
		COLOR	<u>Red.</u>

SALT:

TYPE	_____	GRAIN SIZE	_____
QUANTITY	_____	MEGASCOPIC	_____
COLOR	_____	MINERALS	_____
FORM	_____	ALTERATION	<u>?</u>

SINTER:

TYPE	_____	RX TYPE (AT DEPTH)	<u>Andesite</u>
QUANTITY	_____	WATER USED FOR IMMEDIATE AREA	<u>Cattle</u>
COLOR	_____	USED FOR	<u>Ranching</u>
FORM	_____	QUALITY OF SAMPLE:	<u>EXC.</u> , GOOD, POOR

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

No photo ✓

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13352 Date 160879 Time 13:10
Name Brown Cow CW Location: Co. Santa Cruz State Az
Sec. NW NWNW 6 Twp. 24s R. 18E; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 4850 Quad. Lochiel 15'
Sampler JMD

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

DESCRIPTION:

WATER TEMP. °C 24°C
GROUND TEMP. °C _____
AIR TEMP. _____
ODOR none
FLUID COLOR clear
FLUID TASTE none
BUBBLING _____
BOILING _____

DISCHARGE ~ variable gpm/Lpm

WELL DATA:

DEPTH ~ 10m
BORE 4"
PUMP TYPE wind
STATIC HEAD _____
SCALING _____
TYPE OF PIPING steel
ARTESIAN HEAD _____

VEGETATION grasses, gr + brown algae
FLUID ISSUES FROM Windmill → water tank; sample collected from tank

ROCK DATA:

TYPE (SURFACE) Qal-riva
COLOR _____
GRAIN SIZE _____
MEGASCOPIC MINERALS _____

SALT:

TYPE _____
QUANTITY _____
COLOR _____
FORM _____

ALTERATION _____

SINTER:

TYPE _____
QUANTITY _____
COLOR _____
FORM _____

RX TYPE (AT DEPTH) ?
WATER USED FOR IMMEDIATE AREA cattle
USED FOR _____

QUALITY OF SAMPLE: EXC, GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION pump - stream flow (wind)
PROPERTY OWNED BY ?
PREVIOUS AND/OR CURRENT LEASES ?

JMD R5F29

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13353 Date 16-8-79 Time 14:30
Name Stream bed (formerly worthless) CW Location: Co. Cochise State Az
Sec. NwNwNw9 Twp. 24s R. 1E; km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 5300 Quad. Sunnyside 15'
Sampler JMD

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

DESCRIPTION:

WATER TEMP. °C 21° DISCHARGE ~variable gpm/Lpm
GROUND TEMP. °C - WELL DATA:
AIR TEMP. - DEPTH ~3-7m
ODOR none BORE 4"
FLUID COLOR clear PUMP TYPE wind
FLUID TASTE none STATIC HEAD -
BUBBLING - SCALING CaCO3
BOILING - TYPE OF PIPING steel
VEGETATION - ARTESIAN HEAD -
FLUID ISSUES FROM Windmill in stream bed ROCK DATA:
TYPE (SURFACE) ool stream sed
COLOR _____
GRAIN SIZE _____
MEGASCOPIC MINERALS _____

SALT:

TYPE _____
QUANTITY _____
COLOR _____
FORM _____
ALTERATION ?

SINTER:

TYPE _____
QUANTITY _____
COLOR _____
FORM _____
RX TYPE (AT DEPTH) Phyolite (boulders all over)
WATER USED FOR IMMEDIATE AREA atls
USED FOR _____
QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION wind + net flow.
PROPERTY OWNED BY ?
PREVIOUS AND/OR CURRENT LEASES ?

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13354 Date 16.8.79 Time 15:45
 Name BORDER CW Location: Co. Cochise State AZ
 Sec. SESE SW 17 Twp. 24s R. 20E ; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 5350 Quad. SUNNYSIDE 15'
 Sampler JMD

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

DESCRIPTION:

WATER TEMP. °C	<u>20°c</u>	DISCHARGE	<u>~ Variable</u> gpm/Lpm
GROUND TEMP. °C	<u>-</u>	WELL DATA:	
AIR TEMP.	<u>-</u>	DEPTH	<u>35m</u>
ODOR	<u>none</u>	BORE	<u>4"</u>
FLUID COLOR	<u>clear</u>	PUMP TYPE	<u>wind</u>
FLUID TASTE	<u>none</u>	STATIC HEAD	<u>-</u>
BUBBLING	<u>-</u>	SCALING	<u>-</u>
BOILING	<u>-</u>	TYPE OF PIPING	<u>steel</u>
VEGETATION	<u>-</u>	ARTESIAN HEAD	_____

FLUID ISSUES FROM <u>pipe from</u>	ROCK DATA:
<u>windmill</u>	TYPE (SURFACE) <u>Qal - fan</u>
_____	COLOR _____
_____	GRAIN SIZE _____
_____	MEGASCOPIC _____
_____	MINERALS _____

SALT:	ALTERATION _____
TYPE _____	RX TYPE (AT DEPTH) <u>Ss/shales</u>
QUANTITY _____	WATER USED FOR <u>cattle</u>
COLOR _____	IMMEDIATE AREA <u>border crossings</u>
FORM _____	USED FOR _____

SINTER:	QUALITY OF SAMPLE: <u>EXC.</u> , GOOD, POOR
TYPE _____	
QUANTITY _____	
COLOR _____	
FORM _____	

PROBABLE CAUSE OF MANIFESTATION wind & well
 PROPERTY OWNED BY ?
 PREVIOUS AND/OR CURRENT LEASES ?

F21R4CW



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13355 Date 8/16/79 Time 9:30am
Name COLORADO CLARK WELL Location: Co. GMA State AZ
Sec. 26 Twp. 20S R. 10E; 2.5 km/mi E OF MONTANA RANCH
Lat. _____ Long. _____ Elevation 3800 Quad. _____
Sampler CW

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 29 WELL DATA:
AIR TEMP. 29 DEPTH 33 M
ODOR NONE BORE 8"
FLUID COLOR CLOUDY (PALE GRN) PUMP TYPE WINDMILL
FLUID TASTE Bitter STATIC HEAD _____
BUBBLING _____ SCALING _____
BOILING _____ TYPE OF PIPING _____
VEGETATION _____ ARTESIAN HEAD _____
FLUID ISSUES FROM Pipe from windmill ROCK DATA:

TYPE (SURFACE) Thin Dal
COLOR _____
GRAIN SIZE _____
MEGASCOPIC MINERALS _____

SALT:

TYPE _____
QUANTITY _____
COLOR _____
FORM _____
ALTERATION Much -

SINTER:

RX TYPE (AT DEPTH) ALTERED Volc Ash & flow rx
WATER USED FOR IMMEDIATE AREA CATTLE
USED FOR GRAZING
TYPE _____
QUANTITY _____
COLOR _____
FORM _____
QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION NAT. AZO TABLE?
PROPERTY OWNED BY _____
PREVIOUS AND/OR CURRENT LEASES _____



F2224CW



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13356 Date 8/16/79 Time 12:30
Name MARTINEZ WELL Location: Co. PIMA State AZ
Sec. 23 Twp. 20S R. 9E ; 6 km/mi SE OF ROAD CAMP
Lat. _____ Long. _____ Elevation 3475 Quad. ARIVACA
Sampler CW

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

DESCRIPTION:

WATER TEMP. °C 23° DISCHARGE VARIABLE gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. 29 DEPTH 215M

ODOR NONE BORE 8"

FLUID COLOR CLEAR PUMP TYPE WINDMILL

FLUID TASTE NONE STATIC HEAD _____

BUBBLING | SCALING _____

BOILING | TYPE OF PIPING _____

VEGETATION _____ ARTESIAN HEAD _____

FLUID ISSUES FROM WINDMILL TANK ROCK DATA:

TYPE (SURFACE) COAL

COLOR _____

SALT: GRAIN SIZE _____
TYPE _____ MEGASCOPIC MINERALS _____

QUANTITY | _____

COLOR _____

FORM _____ ALTERATION _____

SINTER: RX TYPE (AT DEPTH) ? PE or PE Conglom.

TYPE _____ WATER USED FOR CATTLE

QUANTITY _____ IMMEDIATE AREA USED FOR GRAZING

COLOR _____

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

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



WAYNE PRUETT
SASABE, AZ
85633

NO PHOTO



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13357 Date 8/16/79 Time 4:30pm
Name LOPEZ Location: Co. Pima State AZ
Sec. 6 Twp. 22S R. 9E; km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 3725 Quad. ARIVACA
Sampler CW

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

DESCRIPTION:

WATER TEMP. °C 25°
GROUND TEMP. °C _____
AIR TEMP. 32°
ODOR NONE
FLUID COLOR COLORLESS
FLUID TASTE NONE
BUBBLING _____
BOILING _____
VEGETATION _____

DISCHARGE ? gpm/Lpm
WELL DATA:
DEPTH ?
BORE _____
PUMP TYPE _____
STATIC HEAD _____
SCALING _____
TYPE OF PIPING _____
ARTESIAN HEAD _____

FLUID ISSUES FROM Faused from Well

ROCK DATA:
TYPE (SURFACE) 0-1
COLOR _____
GRAIN SIZE MEGASCOPIC MINERALS _____

SALT:
TYPE _____
QUANTITY _____
COLOR _____
FORM _____

ALTERATION ?
RX TYPE (AT DEPTH) ?
WATER USED FOR IMMEDIATE AREA USED FOR Domestic/cattle RANCH

SINTER:
TYPE _____
QUANTITY _____
COLOR _____
FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

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

RSF 18

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13358 Date AUG 16 79 Time _____
Name LOPEZ CW Location: Co. SANTA CRUZ State AZ
Sec. NW 30 Twp. 20 S R. 13 E; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 3120 Quad. TUBAC 15
Sampler OT

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

DESCRIPTION:

WATER TEMP. °C 20° DISCHARGE 15 gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. _____ DEPTH ?
ODOR - BORE _____
FLUID COLOR - PUMP TYPE SUBMERS.
FLUID TASTE - STATIC HEAD _____
BUBBLING - SCALING _____
BOILING - TYPE OF PIPING _____
VEGETATION - ARTESIAN HEAD _____

FLUID ISSUES FROM NOSE THAT HAS BEEN RUNNING ~ 1/2 HOUR. ROCK DATA:
TYPE (SURFACE) QAL - RIVER PLAIN
COLOR _____

SALT: TYPE _____ GRAIN SIZE _____
QUANTITY _____ MEGASCOPIC MINERALS _____
COLOR X ALTERATION NO
FORM _____

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

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



RSF19

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13359 Date AUG 16 Time _____
Name LAND SWAP CW Location: Co. PIMA State AZ
Sec. 35 Twp. 20S R. 11E; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 3600 Quad. TUBAC 15'
Sampler CW

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

DESCRIPTION:

WATER TEMP. °C 23° DISCHARGE 5 gpm/Lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. _____ DEPTH 2
ODOR — BORE 6"
FLUID COLOR — PUMP TYPE WM AFROMOTOR
FLUID TASTE — STATIC HEAD _____
BUBBLING _____ SCALING _____
BOILING _____ TYPE OF PIPING STEEL
VEGETATION _____ ARTESIAN HEAD _____
FLUID ISSUES FROM WM OUTLET ROCK DATA:
PIPE TYPE (SURFACE) QAL
COLOR _____
GRAIN SIZE _____
MEGASCOPIC _____
MINERALS _____
ALTERATION _____
SALT: TYPE _____ RX TYPE (AT DEPTH) VALVES - WELDED TUBES
QUANTITY _____ WATER USED FOR IMMEDIATE AREA CATTLE
COLOR _____ USED FOR RANCH
FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR
PROBABLE CAUSE OF MANIFESTATION WM
PROPERTY OWNED BY NFS
PREVIOUS AND/OR CURRENT LEASES _____



RS F20

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13360 Date AUG 16 79 Time _____
Name PUERTO CS Location: Co. SANTA CRUZ State AZ
Sec. SWSE 4 Twp. 21S R. 12E ; km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 3600 Quad. TUBAC 15'
Sampler J

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

DESCRIPTION:

WATER TEMP. °C 22° DISCHARGE 4 gpm/Lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. _____ DEPTH _____
ODOR _____ BORE _____
FLUID COLOR _____ PUMP TYPE _____
FLUID TASTE FINE STATIC HEAD _____
BUBBLING _____ SCALING _____
BOILING _____ TYPE OF PIPING _____
VEGETATION SLIGHT GREEN ALGAE ARTESIAN HEAD X

FLUID ISSUES FROM PIPE LEAKING ROCK DATA:
FROM PUERTO S., WHICH TYPE (SURFACE) QAL - HIGH
IS DRY ON SURFACE COLOR MTN WASH

SALT: GRAIN SIZE _____
TYPE _____ MEGASCOPIC MINERALS _____
QUANTITY _____
COLOR _____
FORM _____ ALTERATION NO

SINTER: RX TYPE (AT DEPTH) VOLCS - RHYO-DACITE
TYPE _____ WATER USED FOR CATTLE Flows, TUFFS + ASH
QUANTITY _____ IMMEDIATE AREA USED FOR RANCH
COLOR _____
FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

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



ASRYFI ✓

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

(Wogales AMS)

Spring No. _____ Sample No. 13361 Date 16-8-79 Time 5:15

Name Black Oak CW Location: Co. S. Cruz State AZ

Sec. center of 6 Twp. 22S R. 18E; km/mi. _____ OF _____

Lat. _____ Long. _____ Elevation 5250 Quad. Elgin

Sampler AS

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

DESCRIPTION:

WATER TEMP. °C 18.4°C @ 24m DISCHARGE variable gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. 29°C DEPTH 24m + ?

ODOR none BORE 6"

FLUID COLOR clear PUMP TYPE w/mill

FLUID TASTE good STATIC HEAD ~ 20m

BUBBLING no SCALING no

BOILING no TYPE OF PIPING steel

VEGETATION no ARTESIAN HEAD ?

FLUID ISSUES FROM windmill ROCK DATA:

TYPE (SURFACE) Gal & limestone

COLOR red & buff

GRAIN SIZE coarse

MEGASCOPIC MINERALS _____

SALT:

TYPE _____

QUANTITY NO

COLOR _____

FORM _____ ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) _____

TYPE _____ WATER USED FOR cattle

QUANTITY NO IMMEDIATE AREA USED FOR same

COLOR _____

FORM _____ QUALITY OF SAMPLE: EXC, GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



F23 R4CW



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13862 Date 8/17/99 Time 1:00pm
 Name Homestead Windmill Location: Co. Cochise State Az
 Sec. 15 Twp. 21S R. 25E; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 4220 Quad. GLEESON
 Sampler CW

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

DESCRIPTION:

WATER TEMP. °C 25 DISCHARGE Variable gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. 35 DEPTH 45M

ODOR NONE BORE 8"

FLUID COLOR COLORLESS PUMP TYPE Windmill

FLUID TASTE NONE STATIC HEAD _____

BUBBLING _____ SCALING _____

BOILING _____ TYPE OF PIPING _____

VEGETATION _____ ARTESIAN HEAD _____

FLUID ISSUES FROM Windmill pipe ROCK DATA:

TYPE (SURFACE) ool

COLOR _____

SALT:

GRAIN SIZE _____
MEGASCOPIC MINERALS _____

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) 7 (ool)

TYPE _____

WATER USED FOR IMMEDIATE AREA USED FOR CATTLE GRAZING

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. 13363 Date 17-08-79 Time Late
 Name Swisshelm CW Location: Co. Cochise State AZ
 Sec. NENE NW 19 Twp. 20s R. 27E ; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation _____ Quad. Swisshelm 15'
 Sampler JMD

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

DESCRIPTION:

WATER TEMP. °C 27.2A DISCHARGE 75 gpm/Lpm
 GROUND TEMP. °C - WELL DATA:
 AIR TEMP. - DEPTH ~ 70m
 ODOR none BORE 16"
 FLUID COLOR clear PUMP TYPE diesel
 FLUID TASTE none STATIC HEAD -
 BUBBLING - SCALING CaCO3
 BOILING - TYPE OF PIPING steel
 VEGETATION no ARTESIAN HEAD -
 FLUID ISSUES FROM irrigation pump ROCK DATA:

TYPE (SURFACE) Qal
 COLOR _____

SALT:

TYPE _____ GRAIN SIZE _____
 QUANTITY _____ MEGASCOPIC _____
 COLOR _____ MINERALS _____
 FORM _____

SINTER:

ALTERATION _____
 RX TYPE (AT DEPTH) Limestone?

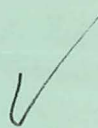
TYPE _____ WATER USED FOR Crops
 QUANTITY _____ IMMEDIATE AREA _____
 COLOR _____ USED FOR _____
 FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION well + pump

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13364 Date 8-17-79 Time 1540

Name CHERTISS' CW Location: Co. COCHISE State AZ

Sec. 10 Twp. 18S R. 21E; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 3840 Quad. ST. DAVID 15'

Sampler GROSS

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

DESCRIPTION:

WATER TEMP. °C 24°

DISCHARGE 5 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH _____

ODOR None

BORE _____

FLUID COLOR CLEAR

PUMP TYPE _____

FLUID TASTE NONE

STATIC HEAD _____

BUBBLING No

SCALING _____

BOILING No

TYPE OF PIPING _____

VEGETATION None

ARTESIAN HEAD _____

FLUID ISSUES FROM WINDMILL

ROCK DATA:

TYPE (SURFACE) Gal

COLOR _____

SALT:

GRAIN SIZE
MEGASCOPIC
MINERALS _____

TYPE None

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) _____

TYPE CaCO₃

WATER USED FOR IMMEDIATE AREA
USED FOR Stock range land

QUANTITY V. minor

COLOR Tan

FORM Crust

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. 13365 Date 8-17-79 Time 1225

Name Whetstone CW Location: Co. COCHISE State AZ

Sec. 18 Twp. 17S R. 20E; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 4050' Quad. BENSON 15'

Sampler Cross

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

DESCRIPTION:

WATER TEMP. °C 23° DISCHARGE 30 gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. _____ DEPTH _____

ODOR None BORE _____

FLUID COLOR clear PUMP TYPE SUBI

FLUID TASTE None STATIC HEAD _____

BUBBLING — SCALING _____

BOILING — TYPE OF PIPING _____

VEGETATION None ARTESIAN HEAD _____

FLUID ISSUES FROM well ROCK DATA:

TYPE (SURFACE) Quail

COLOR _____

SALT:

GRAIN SIZE _____
MEGASCOPIC MINERALS _____

TYPE _____

QUANTITY _____

COLOR _____

FORM _____ ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) Limestone (?)

TYPE — WATER USED FOR Stock

QUANTITY _____ IMMEDIATE AREA USED FOR Rangeland

COLOR _____

FORM _____ QUALITY OF SAMPLE: (C) EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



RSF-21

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13366 Date AUG 18 Time _____
Name TOWNSHIP BUTTE Location: Co CO HISE State AZ
Sec. NW SW 2 Twp. 18 S R. 25 E; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 4328 Quad. PEARCE 15
Sampler _____

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

DESCRIPTION:

WATER TEMP. °C 22° DISCHARGE < 1 gpm/Lpm X

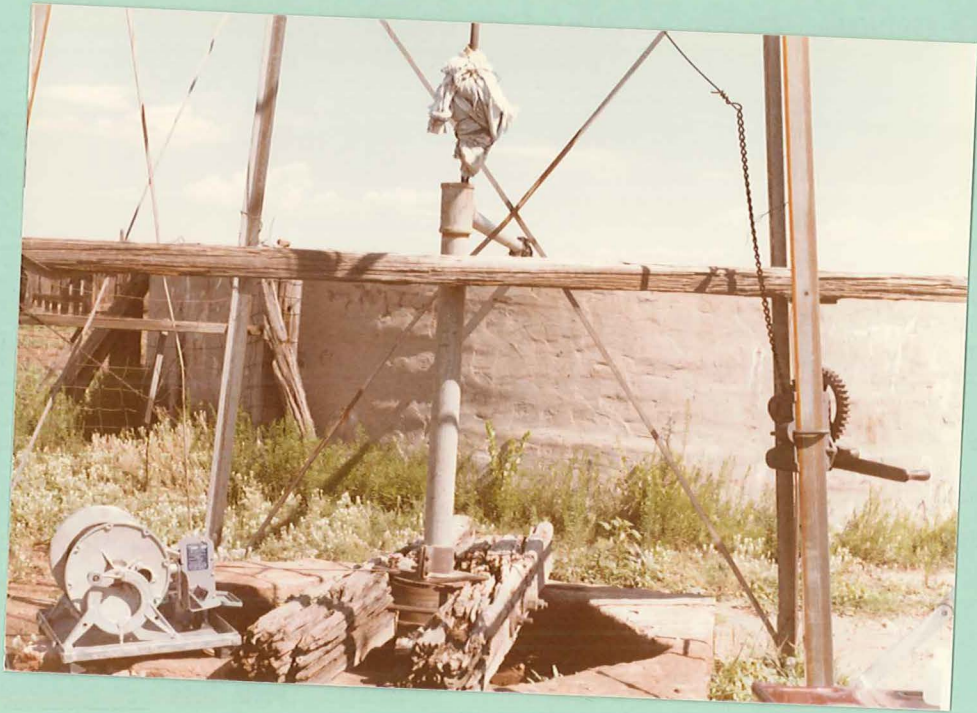
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. _____ DEPTH _____
ODOR _____ BORE 8"
FLUID COLOR _____ PUMP TYPE Wm - BURDICK
FLUID TASTE _____ STATIC HEAD _____
BUBBLING _____ SCALING _____
BOILING _____ TYPE OF PIPING STEEL
VEGETATION GREEN ALGAE ARTESIAN HEAD _____

FLUID ISSUES FROM STORAGE ROCK DATA:
TANK FED BY TYPE (SURFACE) QAL
Wm COLOR _____

SALT: TYPE _____ GRAIN SIZE _____
QUANTITY _____ MEGASCOPIIC _____
COLOR _____ MINERALS _____
FORM _____ ALTERATION NO

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

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



RSF22

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13367 Date AVG 18 Time _____
Name TRATS CW Location: COCHISE State AZ
Sec. NE SW 31 Twp. 18S R. 25E; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 4750 Quad. PEARCE 15'
Sampler J

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

DESCRIPTION:

WATER TEMP. °C 20° DISCHARGE ~4 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH _____

ODOR _____

BORE 8"

FLUID COLOR _____

PUMP TYPE AEROMOTOR Wm

FLUID TASTE CLEAN

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING STEEL

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM Wm OUTLET

ROCK DATA:

PUMP

TYPE (SURFACE) QAL - WASH

COLOR _____

SALT:

GRAIN SIZE _____

TYPE _____

MEGASCOPIC _____

QUANTITY _____

MINERALS _____

COLOR _____

FORM _____

ALTERATION NO

SINTER:

RX TYPE (AT DEPTH) ALKALINE INTRUS.

TYPE _____

WATER USED FOR CATTLE

QUANTITY _____

IMMEDIATE AREA

COLOR _____

USED FOR RANCH

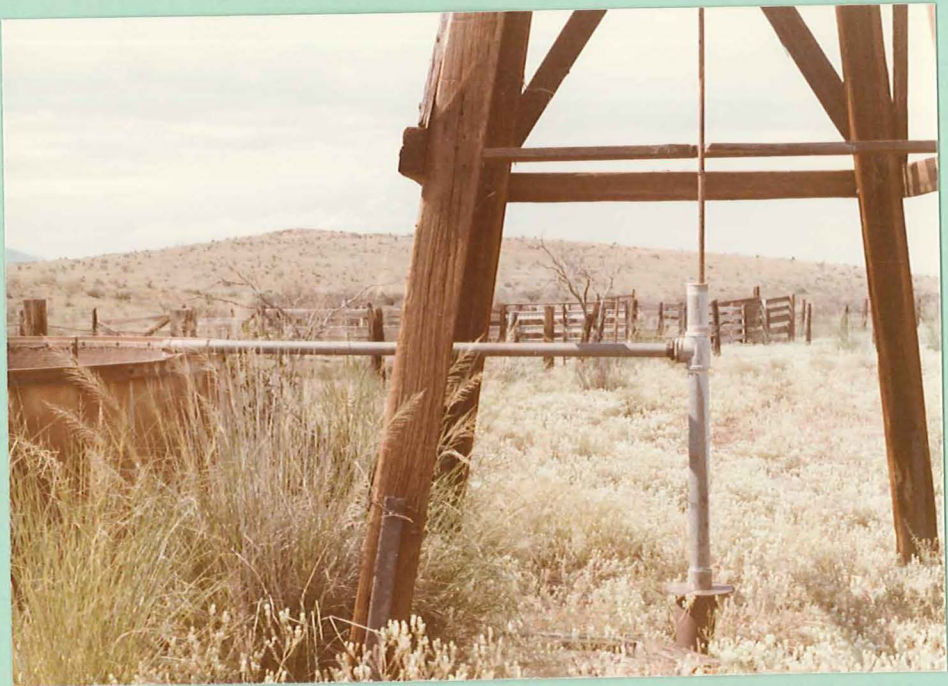
FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Wm

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



MBR3-27 ✓

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13368 Date 8-18-79 Time 1510

Name PORTAL CW Location: Co. COCHISE State AZ

Sec. 28 Twp. 16S R. 31E ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 4510 Quad. VANAR 15'

Sampler GROSS

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

DESCRIPTION:

WATER TEMP. °C 20°

DISCHARGE 5 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH _____

ODOR NONE

BORE _____

FLUID COLOR CLEAR

PUMP TYPE WINDMILL

FLUID TASTE NONE

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING IRON

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM WINDMILL

ROCK DATA:

TYPE (SURFACE) Limestone

COLOR gray

GRAIN SIZE
MEGASCOPIC
MINERALS _____

SALT:

TYPE None

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) _____

TYPE Calc

WATER USED FOR STOCK

QUANTITY Minor

IMMEDIATE AREA
USED FOR GRAZING

COLOR Tan

FORM Crusts

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. 13369 Date 8-18-79 Time 12:30
 Name Fivemile CW Location: Co. Cochise State Az
 Sec. 13 Twp. 17S R. 27E ; 3 km(mi) SE OF Pat Hills
 Lat. _____ Long. _____ Elevation 4618 Quad. Squaretop 15'
 Sampler AS & TB

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>Variable (2-5?)</u> <u>(gpm)</u> /Lpm
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	_____	DEPTH	<u>60+ m</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	_____
BUBBLING	<u>none</u>	SCALING	_____
BOILING	<u>none</u>	TYPE OF PIPING	_____
VEGETATION	_____	ARTESIAN HEAD	_____
FLUID ISSUES FROM	_____	ROCK DATA:	
		TYPE (SURFACE)	<u>Gal</u>
		COLOR	_____
SALT:		GRAIN SIZE	_____
TYPE	_____	MEGASCOPIC	_____
QUANTITY	_____	MINERALS	_____
COLOR	_____		
FORM	_____	ALTERATION	_____
SINTER:		RX TYPE (AT DEPTH)	_____
TYPE	_____	WATER USED FOR	<u>livestock</u>
QUANTITY	_____	IMMEDIATE AREA	_____
COLOR	_____	USED FOR	<u>ranchin</u>
FORM	_____	QUALITY OF SAMPLE:	<u>EXC</u> , GOOD, POOR
PROBABLE CAUSE OF MANIFESTATION	_____		
PROPERTY OWNED BY	<u>?</u>		
PREVIOUS AND/OR CURRENT LEASES	<u>?</u>		



Mrs George Stephens
THE LAZY J RANCH
PO Box 1006
Douglas, Az - 85607

F24 REC ✓

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13370 Date 8/18/79 Time _____

Name LAZY J RANCH Location: Co. Cochise State AZ

SE Sec. 29 Twp. 23S R. 31E ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 4000 Quad. Guadalupe Canyon

Sampler CW

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

DESCRIPTION:

WATER TEMP. °C 25°

DISCHARGE ~ 10 (gpm)/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH 250'

ODOR NONE

BORE 10"

FLUID COLOR CLEAR

PUMP TYPE WINDMILL

FLUID TASTE NONE

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING Steel

VEGETATION _____

ARTESIAN HEAD |

FLUID ISSUES FROM _____

ROCK DATA:

TYPE (SURFACE) QAL

COLOR _____

SALT:

GRAIN SIZE _____

TYPE Calcium?

MEGASCOPIC MINERALS _____

QUANTITY _____

COLOR |

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) QAL?

TYPE _____

WATER USED FOR IMMEDIATE AREA _____

QUANTITY |

USED FOR RANCH

COLOR _____

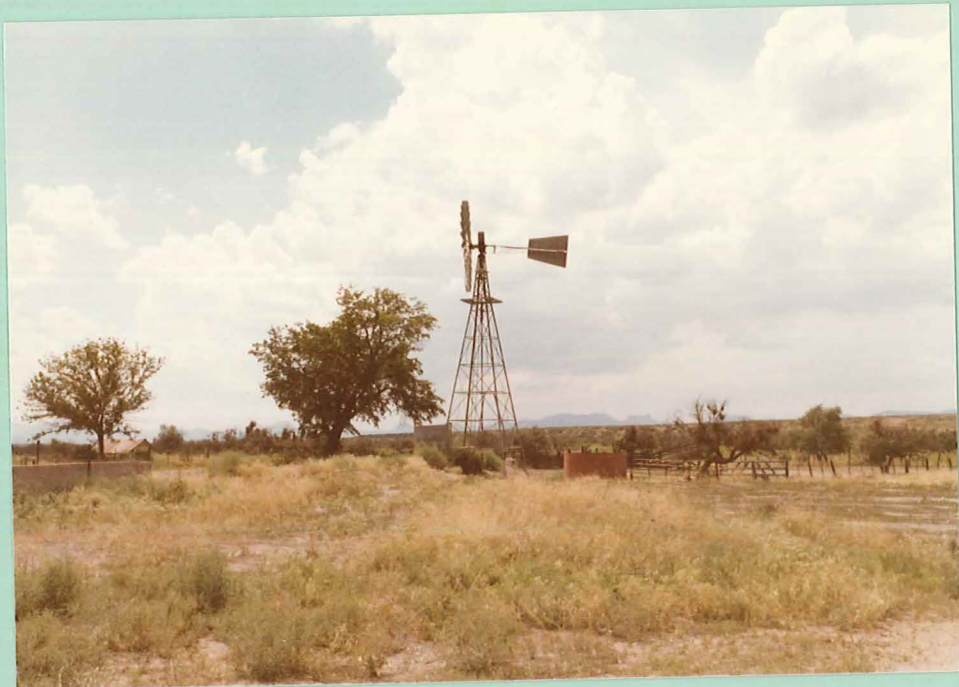
FORM _____

QUALITY OF SAMPLE: EXC. (GOOD), POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY George Stephens

PREVIOUS AND/OR CURRENT LEASES _____



F25 R4CW ✓

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13371 Date 4/18/79 Time 1:30

Name DUTTON Location: Co. Sedona State AZ

NE Sec. 26 Twp. 28S R. 31E ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 4250 Quad. Guadalupe Canyon

Sampler CD

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

DESCRIPTION:

WATER TEMP. °C 26

DISCHARGE 10 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH ? 313 ft

ODOR NONE

BORE 8"

FLUID COLOR CLEAR

PUMP TYPE WINDMILL

FLUID TASTE NONE

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING STEEL

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM Pipe from Windmill

ROCK DATA:

TYPE (SURFACE) red (volc)

COLOR _____

SALT:

GRAIN SIZE
MEGASCOPIC
MINERALS _____

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) ? Volc?

TYPE _____

WATER USED FOR
IMMEDIATE AREA
USED FOR CATTLE
GRAZING

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY George Stearns

PREVIOUS AND/OR CURRENT LEASES _____





AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13372 Date 8/18/99 Time 2:30 pm

Name Mountain Windmill Location: Co. Cochise State Az

NW Sec. 33 Twp. 22S R. 32E; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 4720 Quad. Guadalupe Canyon

Sampler CW

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. _____

DEPTH < 20 M

ODOR NONE

BORE 1 M

FLUID COLOR CLEAR

PUMP TYPE Windmill

FLUID TASTE NONE

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING _____

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM Pipe from Windmill

ROCK DATA:

TYPE (SURFACE) ool

COLOR _____

SALT:

GRAIN SIZE _____

TYPE _____

MEGASCOPIC MINERALS _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION sl

SINTER:

RX TYPE (AT DEPTH) Uble Sds

TYPE _____

WATER USED FOR IMMEDIATE AREA CATTLE

QUANTITY _____

USED FOR GRAZING

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



F 77 Becaw

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13373 Date 8/18/79 Time 4:00 pm
Name WATT WINDMILL Location: Co. Cochise State AZ
Sec. 13 Twp. 23S R. 29E; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 4480 Quad. COLLEGE PEAKS
Sampler CW

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. _____ DEPTH 45M
ODOR NONE BORE 8"
FLUID COLOR CLEAR PUMP TYPE Windmill
FLUID TASTE NONE STATIC HEAD _____
BUBBLING _____ SCALING _____
BOILING _____ TYPE OF PIPING _____
VEGETATION _____ ARTESIAN HEAD _____
FLUID ISSUES FROM Pipe flow ROCK DATA:
WINDMILL TYPE (SURFACE) Qs1
COLOR _____

SALT: TYPE _____ GRAIN SIZE _____
QUANTITY _____ MEGASCOPIC _____
COLOR _____ MINERALS _____
FORM _____ ALTERATION _____

SINTER: RX TYPE (AT DEPTH) odor salt?
TYPE _____ WATER USED FOR CATTLE
QUANTITY _____ IMMEDIATE AREA _____
COLOR _____ USED FOR grazing
FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

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



F20 24 CW
J

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13374 Date 8/18/79 Time 5:00
Name TURNER Windmill Location: Co. Cochise State Az
Sec. 28 Twp. 28S R. 29E ; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 4500 Quad. College Peaks
Sampler CW

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. _____ DEPTH ~ 10M
ODOR None BORE 8"
FLUID COLOR Clear PUMP TYPE Windmill
FLUID TASTE None STATIC HEAD _____
BUBBLING _____ SCALING _____
BOILING _____ TYPE OF PIPING STEEL
VEGETATION _____ ARTESIAN HEAD _____
FLUID ISSUES FROM Windmill ROCK DATA:

TYPE (SURFACE) Dol
COLOR _____

SALT: TYPE _____ GRAIN SIZE _____
MEGASCOPIC MINERALS _____

QUANTITY _____
COLOR _____
FORM _____ ALTERATION _____

SINTER: RX TYPE (AT DEPTH) older SED
TYPE _____ WATER USED FOR IMMEDIATE AREA CATTLE
QUANTITY _____ USED FOR GRAZING
COLOR _____

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

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



ASR4F5

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13375 Date 19-8-79 Time 2:00PM

Name Willow CW Location: Co. Graham State NE

Sec. SW/NW 23 Twp. 11S R. 26E ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 4475 Quad. Luzena 15'

Sampler 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. 30°C

DEPTH 7

ODOR none

BORE 8"

FLUID COLOR cloudy

PUMP TYPE mill

FLUID TASTE good

STATIC HEAD ?

BUBBLING no

SCALING no

BOILING no

TYPE OF PIPING steel

VEGETATION _____

ARTESIAN HEAD ?

FLUID ISSUES FROM windmill

ROCK DATA:

TYPE (SURFACE) granite

COLOR _____

SALT:

GRAIN SIZE _____

TYPE _____

MEGASCOPIC MINERALS _____

QUANTITY no

COLOR _____

FORM _____

ALTERATION strong

SINTER:

RX TYPE (AT DEPTH) same

TYPE _____

WATER USED FOR cattle

QUANTITY no

IMMEDIATE AREA USED FOR cattle

COLOR _____

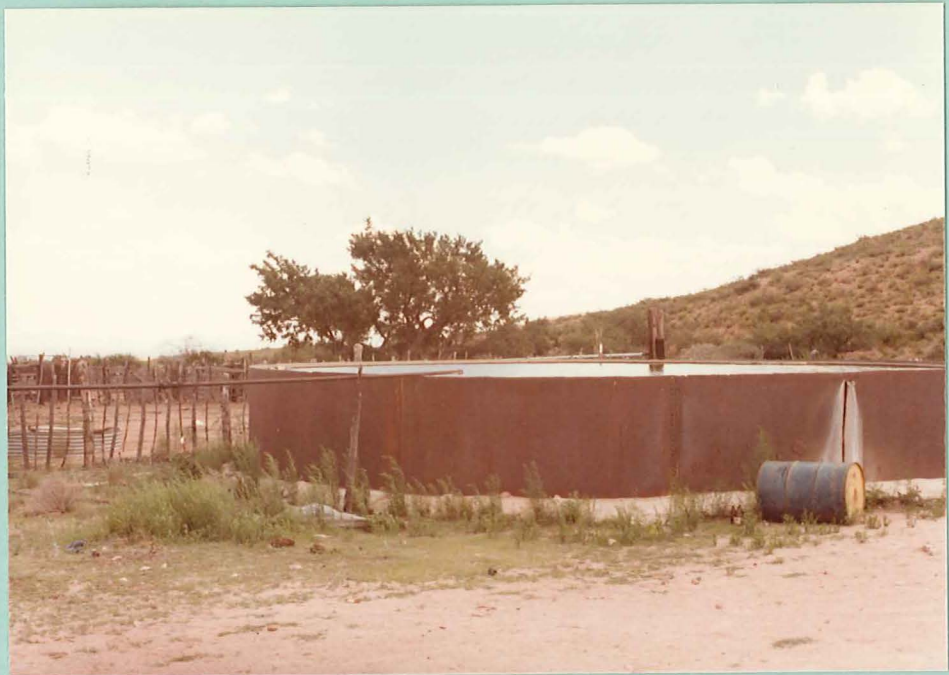
FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



No Photo

PLEASE SEND ANALYSIS TO:

FLOYD PETERSON
Box 207
WILCOX ARIZ 85643

✓

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13376 Date 8-19-79 Time 1730

Name ANTELOPE CW Location: Co. COCHISE State AZ

Sec. NE 21 Twp. 13S R. 21E; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 4400' Quad. WINCHESTER MTS 15'

Sampler GROSS

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

DESCRIPTION:

WATER TEMP. °C 21° DISCHARGE 40 gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. _____ DEPTH ~200'

ODOR NONE BORE 4"

FLUID COLOR CLEAR PUMP TYPE SUB.

FLUID TASTE NONE STATIC HEAD _____

BUBBLING - SCALING _____

BOILING - TYPE OF PIPING _____

VEGETATION - ARTESIAN HEAD _____

FLUID ISSUES FROM WELL ROCK DATA:

TYPE (SURFACE) Gal

COLOR _____

SALT: GRAIN SIZE _____

TYPE - MEGASCOPIC MINERALS _____

QUANTITY _____

COLOR _____

FORM _____ ALTERATION _____

SINTER: RX TYPE (AT DEPTH) _____

TYPE - WATER USED FOR Domestic

QUANTITY _____ IMMEDIATE AREA USED FOR Ranch

COLOR _____

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

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____

M6R3 F29 ✓

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13377 Date 8-19-79 Time 1830

Name HOOKEYS HS Location: Co. CORONA State AZ

Sec. N6 Twp. 13S R. 21E; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 4100' Quad. WINCHESTER MTS 15'

Sampler GROSS

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

DESCRIPTION:

WATER TEMP. °C 52°

DISCHARGE 5-10 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 GREEN ALGAE

ARTESIAN HEAD _____

FLUID ISSUES FROM Seep near creek

ROCK DATA:

- numerous vents, 37 to 52°C

TYPE (SURFACE) Pool - Alluvial Gravel

COLOR _____

SALT:

GRAIN SIZE
MEGASCOPIC
MINERALS _____

TYPE NONE

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) _____

TYPE NONE

WATER USED FOR IMMEDIATE AREA pool
USED FOR RANCH

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION FAULT CONTROL

PROPERTY OWNED BY BROWNING RANCH

PREVIOUS AND/OR CURRENT LEASES _____



RS F23

5

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13378 Date AUG 19 Time _____

Name BUCKHORN CW Location: Co CHISE State AZ

Sec. CENTER 2 Twp. 16 S R. 29 E; 1 N km/mi BUCKHORN OF Basin

Lat. _____ Long. _____ Elevation 5800 Quad. COCHISE NEAD 15

Sampler _____

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

DESCRIPTION:

WATER TEMP. °C 18°

DISCHARGE 20 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH SHALLOW

ODOR _____

BORE _____

FLUID COLOR _____

PUMP TYPE _____

FLUID TASTE _____

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING _____

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM LEAK IN

ROCK DATA:

WM OUTLET PIPE

TYPE (SURFACE) QAL - WASH

2 IN STORAGE TANK

COLOR _____

SALT:

GRAIN SIZE
MEGASCOPIC
MINERALS _____

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION NO

SINTER:

RX TYPE (AT DEPTH) ?SEDS - SS LS SK

TYPE _____

WATER USED FOR IMMEDIATE AREA
USED FOR CATTLE RANCH

QUANTITY _____

COLOR _____

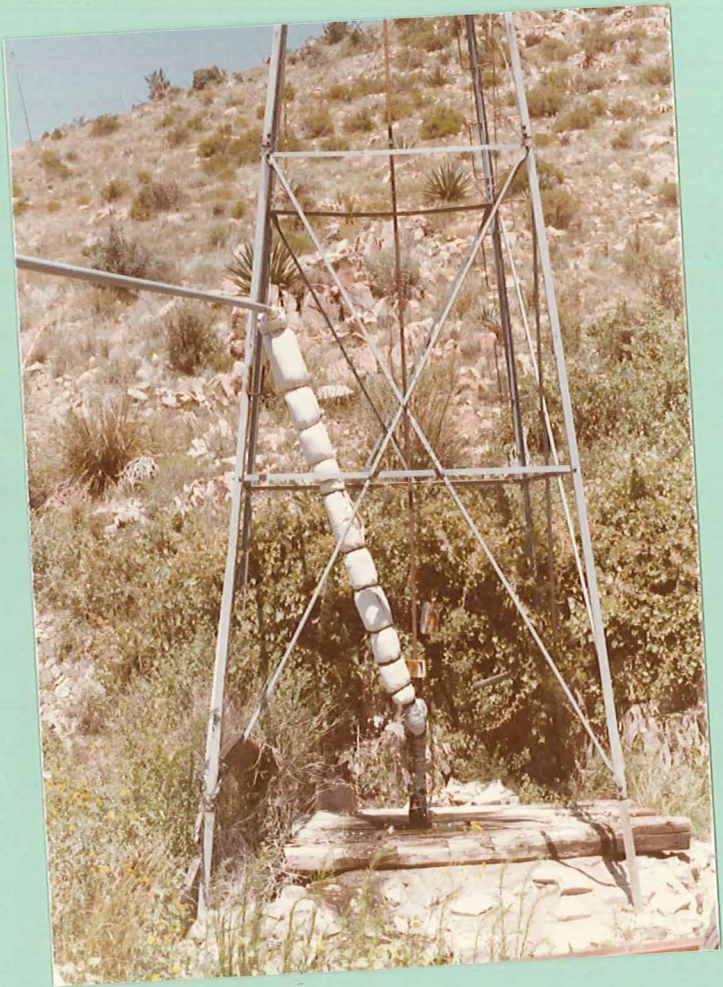
FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION WM

PROPERTY OWNED BY NFS

PREVIOUS AND/OR CURRENT LEASES _____



RSF24



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13379 Date AUG 19 79 Time _____

Name LONG BEACH CW Location: Co. CHISE State AZ

Sec. NW 1/4 Twp. 16S R. 28E; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 4716 Quad. DOS CABEZAS 15'

Sampler _____

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

DESCRIPTION:

WATER TEMP. °C 220 DISCHARGE 5 gpm/lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. _____ DEPTH _____

ODOR _____ BORE _____

FLUID COLOR _____ PUMP TYPE WM

FLUID TASTE _____ STATIC HEAD _____

BUBBLING _____ SCALING _____

BOILING _____ TYPE OF PIPING STEEL

VEGETATION _____ ARTESIAN HEAD _____

FLUID ISSUES FROM WM OUTLET ROCK DATA:

PIPE TYPE (SURFACE) DAL

COLOR BROWN

GRAIN SIZE FG SAND

MEGASCOPIC MINERALS _____

SALT: 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 _____



TBR2F37 ✓

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13380 Date 8-19-79 Time 10:00 pm
Name Hope CW Location: Co. Cochise State AZ
Sec. 31 Twp. 12S R. 23E ; 4 km(mi) NE OF Spring Mt
Lat. _____ Long. _____ Elevation 4241 Quad. Willcox 15'
Sampler CW/TB

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

DESCRIPTION:

WATER TEMP. °C 22°
GROUND TEMP. °C _____
AIR TEMP. _____
ODOR none
FLUID COLOR clear
FLUID TASTE none
BUBBLING none
BOILING none
VEGETATION _____
FLUID ISSUES FROM _____

DISCHARGE Variable (gpm) Lpm
WELL DATA:
DEPTH 268 ft
BORE _____
PUMP TYPE Electric
STATIC HEAD _____
SCALING _____
TYPE OF PIPING _____
ARTESIAN HEAD _____

SALT:

TYPE _____
QUANTITY _____
COLOR _____
FORM _____

ROCK DATA:

TYPE (SURFACE) Gal
COLOR _____
GRAIN SIZE _____
MEGASCOPIC MINERALS _____

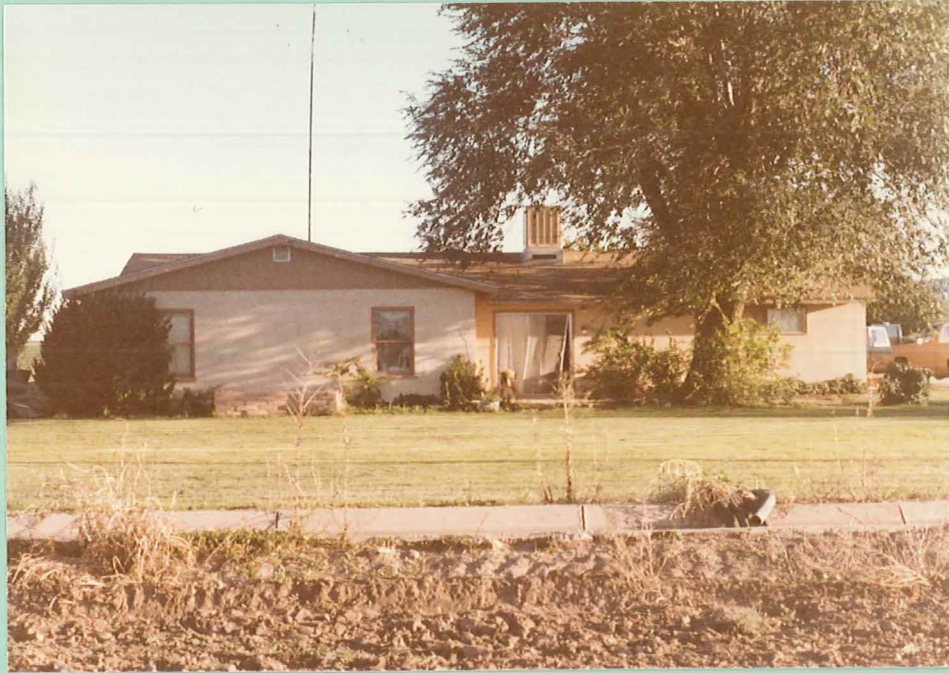
SINTER:

TYPE _____
QUANTITY _____
COLOR _____
FORM _____

ALTERATION ?
RX TYPE (AT DEPTH) ?
WATER USED FOR IMMEDIATE AREA Domestic
USED FOR Farming

QUALITY OF SAMPLE: EXC., GOOD, POOR

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



No photo ✓

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13381 Date 20.08.79 Time 13:50

Name R12 CW Location: Co. _____ State Az

Sec. SESESWSE 29 Twp. 10s R. 22E; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 4535 Quad. Sierra Bonita Ranch 7.5

Sampler JMD

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. 35°c

DEPTH 396'

ODOR none

BORE 6" steel

FLUID COLOR clear

PUMP TYPE Jensen

FLUID TASTE good

STATIC HEAD -

BUBBLING -

SCALING -

BOILING -

TYPE OF PIPING steel

VEGETATION -

ARTESIAN HEAD -

FLUID ISSUES FROM faucet on well next to drill rig + jensen

ROCK DATA:

TYPE (SURFACE) Basalt

COLOR light brown (weathered)

GRAIN SIZE MEGASCOPIC MINERALS _____

SALT:

TYPE _____
QUANTITY _____
COLOR _____
FORM _____

ALTERATION ?

SINTER:

RX TYPE (AT DEPTH) ? Basalt?

TYPE _____
QUANTITY _____
COLOR _____
FORM _____

WATER USED FOR IMMEDIATE AREA USED FOR Hse + cattle

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION pump

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____

F R4CW ✓

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13382 Date 8-20-79 Time 930
Name WOW HW Location: Co. COCHISE State AZ
Sec. NW 31 Twp. 12S R. 24E; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation _____ Quad. WILLCOX 15'
Sampler CW & MG

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

DESCRIPTION:

WATER TEMP. °C 33° DISCHARGE 0 gpm/Lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. _____ DEPTH _____
ODOR oil BORE 16"
FLUID COLOR clear PUMP TYPE _____
FLUID TASTE None STATIC HEAD _____
BUBBLING - SCALING _____
BOILING - TYPE OF PIPING _____
VEGETATION - ARTESIAN HEAD _____

FLUID ISSUES FROM sampled at ~130m
in static well

ROCK DATA:
TYPE (SURFACE) Gal
COLOR _____

SALT:

TYPE - GRAIN SIZE _____
QUANTITY _____ MEGASCOPIC _____
COLOR _____ MINERALS _____
FORM _____ ALTERATION _____

SINTER:

TYPE - RX TYPE (AT DEPTH) _____
QUANTITY _____ WATER USED FOR _____
COLOR _____ IMMEDIATE AREA _____
FORM _____ USED FOR FARMING
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. 13383 Date 8/20/79 Time 11:30 am

Name Goodwin CW Location: Co. Cochise State AZ

SW Sec. 24 Twp. 12S R. 24E; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation _____ Quad. Willcox

Sampler CW/MG

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

DESCRIPTION:

WATER TEMP. °C 23°

DISCHARGE Variable gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH 75 M

ODOR NONE

BORE 10"

FLUID COLOR Cloudy (Grn)

PUMP TYPE Windmill

FLUID TASTE _____

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING STEEL

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM STEEL PIPE
from Windmill

ROCK DATA:

TYPE (SURFACE) ool

COLOR _____

SALT:

GRAIN SIZE
MEGASCOPIC
MINERALS _____

TYPE Calcium?

QUANTITY MINOR

COLOR WHITE

FORM ENCrustATION

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 NATURAL WATER Table

PROPERTY OWNED BY Goodwin BANCHe

PREVIOUS AND/OR CURRENT LEASES _____

CT R 5 F 25



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13384 Date AUG 20 Time _____

Name TEXACO CW Location: COCHISE State AZ

Sec. 18 Twp. 14S R. 26E; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 4275 Quad. DOS CABEZAS 15'

Sampler C

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

DESCRIPTION:

WATER TEMP. °C 25.0

DISCHARGE 500 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH 800'

ODOR _____

BORE 16"

FLUID COLOR _____

PUMP TYPE 1R21G

FLUID TASTE _____

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING STEEL

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM 1R21G
PUMP

ROCK DATA:

TYPE (SURFACE) QAL

COLOR _____

SALT:

GRAIN SIZE
MEGASCOPIC
MINERALS _____

TYPE _____

QUANTITY X

COLOR _____

FORM _____

ALTERATION NO

SINTER:

RX TYPE (AT DEPTH) _____

TYPE _____

WATER USED FOR
IMMEDIATE AREA
USED FOR 1R21G
AG

QUANTITY X

COLOR _____

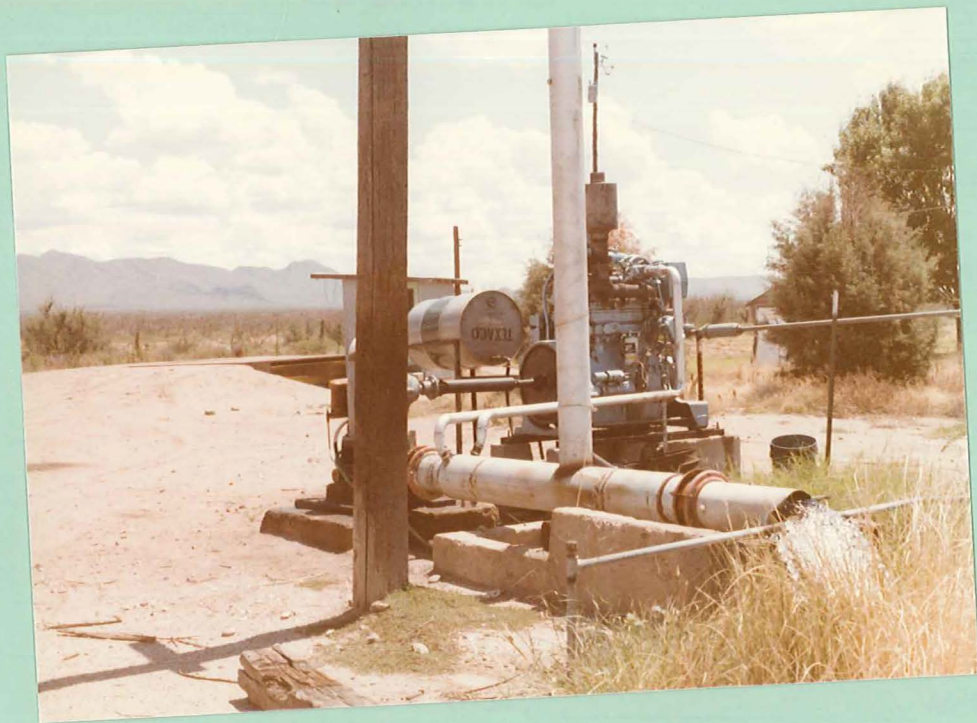
FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION pump

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



CT R5F26



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13385 Date _____ Time _____

Name WHISTLING CW Location: Co COCHISE State AZ

Sec. NE 24 Twp. 14S R. 28E; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 4125' Quad. COCHISE HEAD 15'

Sampler G

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

DESCRIPTION:

WATER TEMP. °C 24°

DISCHARGE 5 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA: _____

AIR TEMP. _____

DEPTH 2

ODOR _____

BORE 8"

FLUID COLOR _____

PUMP TYPE WM

FLUID TASTE HARD

STATIC HEAD _____

BUBBLING —

SCALING _____

BOILING —

TYPE OF PIPING STEEL

VEGETATION —

ARTESIAN HEAD _____

FLUID ISSUES FROM WM

ROCK DATA: _____

TYPE (SURFACE) QAL - HIGH WASH

COLOR _____

SALT:

GRAIN SIZE _____

TYPE CaCO3

MEGASCOPIC _____

QUANTITY MINOR

MINERALS _____

COLOR WHITE

FORM CRUST ON PIPE

ALTERATION NO

SINTER:

RX TYPE (AT DEPTH) META-SEDS

TYPE _____

WATER USED FOR CATTLE

QUANTITY X

IMMEDIATE AREA _____

USED FOR RANCH

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION WM

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



ASR4F6

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13386 Date 20-8-78 Time 1:20 PM
Name Bowie WW Location: Co Cochise State AZ
Sec. SW corner 27 Twp. 12S R. 28E ; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 3710 Quad. Bowie 15'
Sampler AS

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

DESCRIPTION:

WATER TEMP. °C 32°C DISCHARGE 500 gpm/Lpm

GROUND TEMP. °C _____ WELL DATA: DEPTH ?
AIR TEMP. 37°C BORE 12-14"

ODOR none PUMP TYPE turb.

FLUID COLOR clear STATIC HEAD ?

FLUID TASTE good SCALING no

BUBBLING no TYPE OF PIPING steel

BOILING no ARTESIAN HEAD ?

VEGETATION no

FLUID ISSUES FROM 8" pipe from ROCK DATA: TYPE (SURFACE) Gal

irrig. well COLOR _____

SALT:

TYPE _____ GRAIN SIZE _____
MEGASCOPIC MINERALS _____

QUANTITY no

COLOR _____

FORM _____ ALTERATION _____

SINTER:

TYPE _____ RX TYPE (AT DEPTH) _____

QUANTITY no WATER USED FOR IMMEDIATE AREA cotton

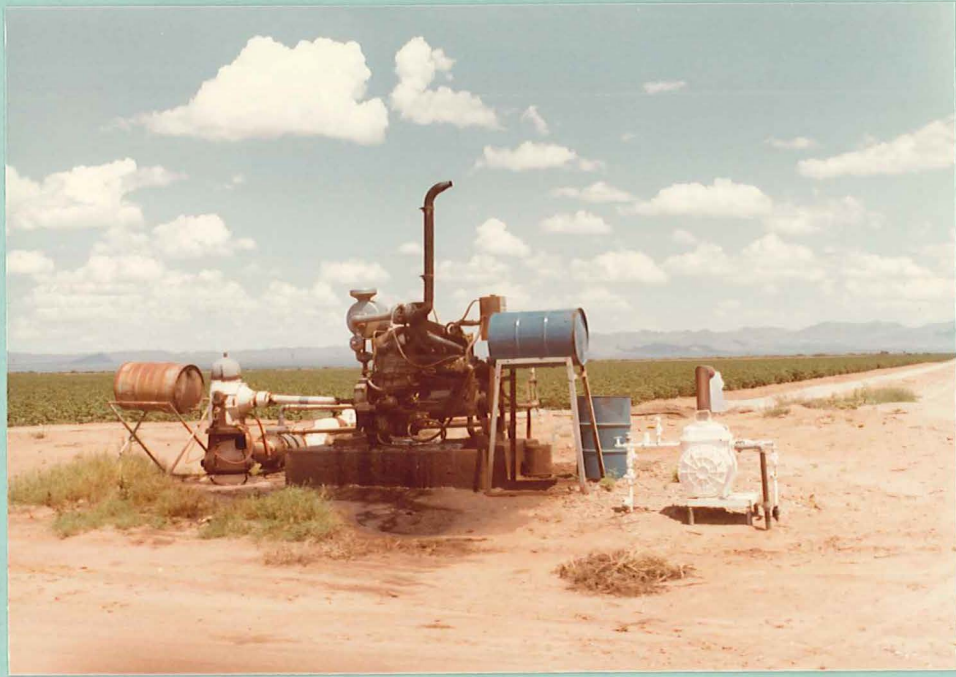
COLOR _____ USED FOR same

FORM _____ QUALITY OF SAMPLE: EXC, GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



ASR4F10 ✓

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13387 Date 2-8-79 Time 2:15

Name Cottonwood Spg. CS Location: Co Graham State AZ

Sec. uncurveyal Twp. 3S R. 19E ; 6.5 km/mi east OF Collidge Dam

Lat. _____ Long. _____ Elevation 2780 ft. Quad. San Carlos Res

Sampler 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 3 gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. 35°C DEPTH _____

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 pipe (1") ROCK DATA:

TYPE (SURFACE) Gal

COLOR _____

SALT: TYPE _____ GRAIN SIZE _____
MEGASCOPIC MINERALS _____

QUANTITY NO

COLOR _____

FORM _____ ALTERATION _____

SINTER: RX TYPE (AT DEPTH) _____

TYPE _____ WATER USED FOR stark

QUANTITY _____ IMMEDIATE AREA USED FOR same

COLOR NO

FORM _____ QUALITY OF SAMPLE: EXC, GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



ASR4F11 ✓

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13388 Date 21-8-79 Time 5:00 PM

Name JK CW Location: Co Graham State AZ

Sec. unsurveyed Twp. 3S R. 20E; 5 km/mi South of Coll. Dam Rd.

Lat. _____ Long. _____ Elevation 3440 Quad. San Carlos Res

Sampler AS

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 none

BORE 6"

FLUID COLOR clear

PUMP TYPE mill

FLUID TASTE good

STATIC HEAD ?

BUBBLING no

SCALING no

BOILING no

TYPE OF PIPING steel

VEGETATION no

ARTESIAN HEAD ?

FLUID ISSUES FROM windmill, leaky

ROCK DATA:

TYPE (SURFACE) Qal

COLOR _____

SALT:

GRAIN SIZE _____

TYPE _____

MEGASCOPIC _____

QUANTITY no

MINERALS _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) Qal

TYPE _____

WATER USED FOR cattle

QUANTITY no

IMMEDIATE AREA _____

COLOR _____

USED FOR same

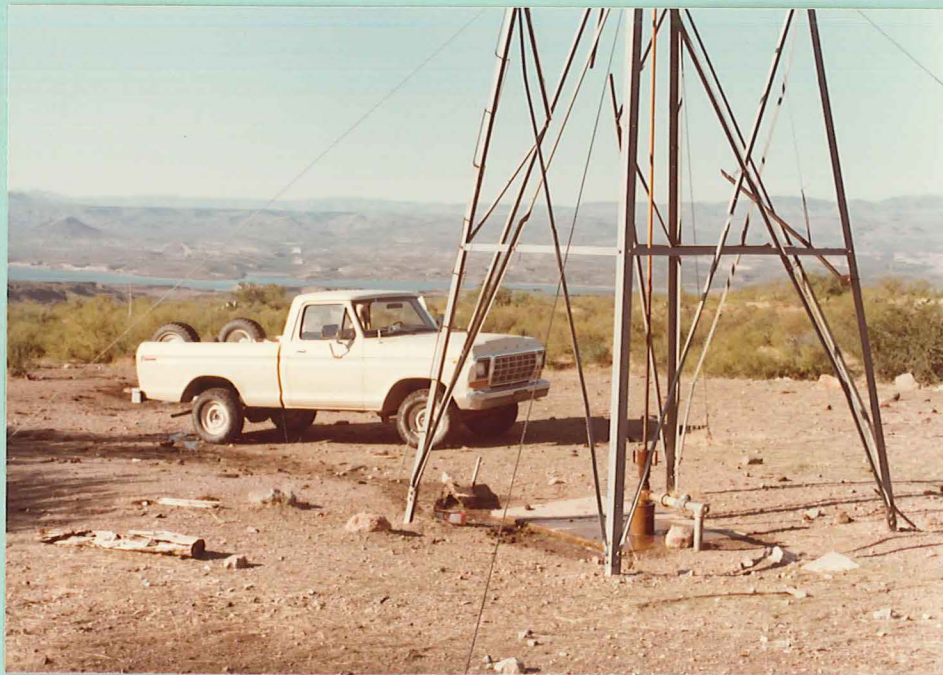
FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



NO PHOTO

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13389 Date AUG 21 79 Time _____

Name PUP CW Location: COCHISE State AZ

Sec. NE 10 Twp. 16S R. 26E; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 4345' Quad. DOS GABEZAS 15'

Sampler C

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

DESCRIPTION:

WATER TEMP. °C 24°

DISCHARGE 25 gpm/lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH 400'

ODOR _____

BORE 8"

FLUID COLOR —

PUMP TYPE SUB.

FLUID TASTE —

STATIC HEAD ~310'

BUBBLING —

SCALING _____

BOILING —

TYPE OF PIPING _____

VEGETATION —

ARTESIAN HEAD _____

FLUID ISSUES FROM HOSE NEAR

ROCK DATA:

STORAGE TANK

TYPE (SURFACE) QAL

COLOR BROWN

SALT:

GRAIN SIZE _____
MEGASCOPIC MINERALS _____

TYPE _____

QUANTITY X

COLOR _____

FORM _____

ALTERATION NO

SINTER:

RX TYPE (AT DEPTH) _____

TYPE _____

WATER USED FOR IMMEDIATE AREA USED FOR DOMESTIC
AG

QUANTITY _____

COLOR X

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION PUMP

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____

RS F27

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13390 Date _____ Time _____

Name BAILEY CW Location: Co. GRAHAM State AZ

Sec. NW SE 7 Twp. 10S R. 28E; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 3270 Quad. TANQUE

Sampler CJ

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

DESCRIPTION:

WATER TEMP. °C 21°

DISCHARGE 15 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH ?

ODOR ✓

BORE 8"

FLUID COLOR ✓

PUMP TYPE WM

FLUID TASTE ✓

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING _____

VEGETATION ✓

ARTESIAN HEAD _____

FLUID ISSUES FROM WM OUTLET

ROCK DATA:

PIPE

TYPE (SURFACE) QAL - RIVER

COLOR PLAIN

GRAIN SIZE _____

MEGASCOPIC MINERALS _____

QUANTITY X

COLOR _____

FORM _____

ALTERATION NO

RX TYPE (AT DEPTH) QAL

WATER USED FOR IMMEDIATE AREA USED FOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION WM

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____

R5F28

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13391 Date Aug 21 79 Time _____
Name NARVEYS WW Location: Co. GRANAH State AZ
Sec. SWSW 33 Twp. 8S R. 26E; 1/2 km/mi SE OF ARTESIA
Lat. _____ Long. _____ Elevation 3333 Quad. ARTESIA 7.5'
Sampler U

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

DESCRIPTION:

WATER TEMP. °C 30° DISCHARGE ~200 gpm/Lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. _____ DEPTH 150'
ODOR _____ BORE 8"
FLUID COLOR LIGHT MILKY COLOR PUMP TYPE 1R21G
FLUID TASTE SLIGHTLY SALTY STATIC HEAD 52-90
BUBBLING _____ SCALING _____
BOILING _____ TYPE OF PIPING STEEL
VEGETATION NO ARTESIAN HEAD NO
FLUID ISSUES FROM 1R21G PUMP ROCK DATA:

TYPE (SURFACE) QAL
COLOR BROWN

SALT: GRAIN SIZE _____
TYPE _____ MEGASCOPIC _____
MINERALS _____

QUANTITY X
COLOR _____
FORM _____ ALTERATION NO

SINTER: RX TYPE (AT DEPTH) UNCOM. SEOS
TYPE _____ WATER USED FOR IMMEDIATE AREA 1R21G
QUANTITY X USED FOR AG
COLOR _____

FORM _____ QUALITY OF SAMPLE: EXC. GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION PUMP
PROPERTY OWNED BY NARVEY JOHN
PREVIOUS AND/OR CURRENT LEASES NO ?



ΔT also ~ 95°C/km

JMD R5F32

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13392 Date 21-08-79 Time 12:45

Name Yellowjacket NW Location: Co. _____ State _____

Sec. ONSweyrd Twp. 3S R. 21E ; 25 km/mi NNE OF Jct w/ Hwy 70

Lat. _____ Long. _____ Elevation 3120 Quad. Bylas 15'

Sampler JMD

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

DESCRIPTION:

WATER TEMP. °C 30.41 @ 80m

DISCHARGE variable gpm/Lpm

GROUND TEMP. °C -

WELL DATA:

AIR TEMP. -

DEPTH 85m

ODOR none

BORE 8"

FLUID COLOR slight milky

PUMP TYPE wind

FLUID TASTE -

STATIC HEAD -

BUBBLING -

SCALING -

BOILING -

TYPE OF PIPING steel

VEGETATION -

ARTESIAN HEAD _____

FLUID ISSUES FROM windmill into water tank

ROCK DATA:

TYPE (SURFACE) Qal - alluv. fan

COLOR _____

SALT:

GRAIN SIZE _____

TYPE _____

MEGASCOPIC MINERALS _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) Basalt, pyroclastics, travertine

TYPE _____

WATER USED FOR IMMEDIATE AREA cattle?

QUANTITY _____

USED FOR ?

COLOR _____

FORM _____

QUALITY OF SAMPLE: (C), GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION well + wind

PROPERTY OWNED BY E. Apache

PREVIOUS AND/OR CURRENT LEASES ?

JMD R5F34 ✓

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13393 Date 21-08-79 Time 18:38
Name Cold Springs CS Location: Co. Graham State Az
Sec. S6SWSE 80 Twp. 5S R. 24E; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 2800' Quad. Ft. Thomas 15'
Sampler JMD

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

DESCRIPTION:

WATER TEMP. °C 28°c DISCHARGE 10-15 gpm/Lpm
GROUND TEMP. °C - WELL DATA:
AIR TEMP. - DEPTH _____
ODOR ~ bitter BORE _____
FLUID COLOR clear PUMP TYPE _____
FLUID TASTE SALTY! STATIC HEAD _____
BUBBLING - SCALING _____
BOILING _____ TYPE OF PIPING _____
VEGETATION - ARTESIAN HEAD _____

FLUID ISSUES FROM seep on side of embankment

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

SALT:
TYPE NaCl
QUANTITY Much
COLOR white
FORM coating on soil & grass

ALTERATION ?
RX TYPE (AT DEPTH) ?
WATER USED FOR IMMEDIATE AREA Cattle Ranch
USED FOR _____

SINTER:
TYPE _____
QUANTITY _____
COLOR _____
FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Nat. hydro. flow ~ w/in 2mi of Indian HOT springs
PROPERTY OWNED BY _____
PREVIOUS AND/OR CURRENT LEASES _____

Please send analysis to: LEBANON HOT MINERAL BATHS
RTI BOX 1003
SAFFORD, AZ 85546

MGR3F30

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13394 Date 8-21-79 Time 1000
Name LEBANON HAW Location: Co. GRAHAM State AZ
Sec. NE 7 Twp. 8S R. 26E ; km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 3160' Quad. SAFFORD 15'
Sampler (GROSS)

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

DESCRIPTION:

WATER TEMP. °C 42° DISCHARGE ~25 gpm gpm/Lpm _____
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. _____ DEPTH _____
ODOR NONE BORE 8"
FLUID COLOR CLEAR PUMP TYPE _____
FLUID TASTE SALTY STATIC HEAD _____
BUBBLING No SCALING _____
BOILING No TYPE OF PIPING _____
VEGETATION GREEN ALGAE ARTESIAN HEAD _____
FLUID ISSUES FROM ARTESIAN WELL ROCK DATA:
NEXT TO SPA TYPE (SURFACE) Gal
COLOR _____

SALT:

TYPE NaCl GRAIN SIZE _____
QUANTITY MINOR MEGASCOPIC _____
COLOR GREYISH MINERALS _____
FORM CRUSTS ALTERATION _____

SINTER:

TYPE CaCO₃ RX TYPE (AT DEPTH) _____
QUANTITY MINOR WATER USED FOR SPA
COLOR TAN IMMEDIATE AREA _____
FORM CRUSTS USED FOR SMALL FARMS + HOMES
QUALITY OF SAMPLE: EXC., GOOD, POOR

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



M6R3.F31 ✓

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13395 Date 8-21-79 Time 1140

Name OLSEN CW Location: Co. COCHISE State AZ

Sec. NE7 Twp. 8S R. 27E ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 3080' Quad. SAFFORD 15'

Sampler GROSS

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

DESCRIPTION:

WATER TEMP. °C 24°

DISCHARGE ~20 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH ~30 m

ODOR None

BORE 4"

FLUID COLOR Clear

PUMP TYPE Jensen

FLUID TASTE None

STATIC HEAD _____

BUBBLING -

SCALING _____

BOILING -

TYPE OF PIPING 1/2" REX

VEGETATION -

ARTESIAN HEAD _____

FLUID ISSUES FROM well w/ jensen

ROCK DATA:

TYPE (SURFACE) Gal - clay

COLOR _____

SALT:

GRAIN SIZE _____
MEGASCOPIC _____
MINERALS _____

TYPE None

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) _____

TYPE None

WATER USED FOR IMMEDIATE AREA Stock
USED FOR Rangeland

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY FED

PREVIOUS AND/OR CURRENT LEASES BLM - OLSEN



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM



Spring No. _____ Sample No. 13396 Date 8/24/79 Time 3⁰⁰ pm
 Name FRANKLIN WELL Location: Co. Contra State Ariz
 Sec. 31 Twp. 12S R. 23E; km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 4241 Quad. WillCOR
 Sampler CW (FD)

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

DESCRIPTION:

WATER TEMP. °C 28
 GROUND TEMP. °C _____
 AIR TEMP. _____
 ODOR NONE
 FLUID COLOR CLEAR
 FLUID TASTE NONE
 BUBBLING _____
 BOILING _____
 VEGETATION _____
 FLUID ISSUES FROM _____

DISCHARGE 100 + gpm/Lpm

WELL DATA:

DEPTH ?
 BORE 10"
 PUMP TYPE _____
 STATIC HEAD _____
 SCALING _____
 TYPE OF PIPING _____
 ARTESIAN HEAD _____

ROCK DATA:

TYPE (SURFACE) Qd
 COLOR _____
 GRAIN SIZE _____
 MEGASCOPIC MINERALS _____

SALT:

TYPE _____
 QUANTITY _____
 COLOR _____
 FORM _____

ALTERATION ?
 RX TYPE (AT DEPTH) ?

SINTER:

TYPE _____
 QUANTITY _____
 COLOR _____
 FORM _____

WATER USED FOR IMMEDIATE AREA USED FOR IRRIGATION FARM

QUALITY OF SAMPLE: EXC., GOOD, POOR

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



M6R3# F32 ✓

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13397 Date 8-22-79 Time 840
Name SMITHVILLE HAW Location: Co. GRAHAM State AZ
Sec. NW 36 Twp. 6S R. 25E; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 2870' Quad. SAFFORD
Sampler GROSS

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

DESCRIPTION:

WATER TEMP. °C 46° DISCHARGE ~150 artesian gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. _____ DEPTH ~650 m

ODOR H₂S (??) BORE 15"

FLUID COLOR clear PUMP TYPE None

FLUID TASTE SALTY! STATIC HEAD _____

BUBBLING - SCALING _____

BOILING - TYPE OF PIPING IRON

VEGETATION NONE ARTESIAN HEAD _____

FLUID ISSUES FROM ARTESIAN WELL ROCK DATA:

alongside river TYPE (SURFACE) Pal

COLOR _____

SALT: TYPE NaCl GRAIN SIZE _____
MEGASCOPIC MINERALS _____

QUANTITY MODERATE

COLOR WHITE

FORM crust & thin ALTERATION _____

SINTER: RX TYPE (AT DEPTH) _____

TYPE None WATER USED FOR IMMEDIATE AREA Nothing - goes into River

QUANTITY _____ USED FOR farming

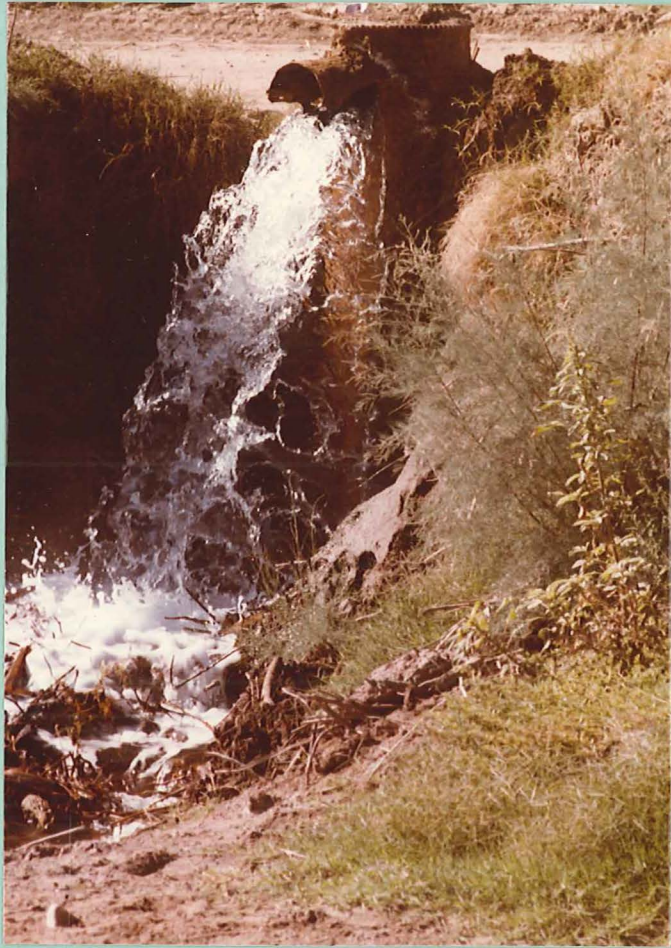
COLOR _____

FORM _____ QUALITY OF SAMPLE: EXC, GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION SHALLOW HOT RESERVOIR

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



MGR3F33



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13398 Date 8-22-79 Time 1215
Name Buena Vista HAW Location: Co. Cochise State AZ
Sec. NW cor 11 Twp. 7S R. 27E ; km/mi _____ OF _____
Lat. _____ Long. _____ Elevation ~~300~~ 3030' Quad. SAFFORD
Sampler Gross

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

DESCRIPTION:

WATER TEMP. °C 49° DISCHARGE 30-40 gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. _____ DEPTH _____
ODOR NONE BORE _____
FLUID COLOR CLEAR PUMP TYPE _____
FLUID TASTE SALTY STATIC HEAD _____
BUBBLING No SCALING _____
BOILING No TYPE OF PIPING _____
VEGETATION BR. ALGAE ARTESIAN HEAD _____

FLUID ISSUES FROM WELL ROCK DATA:
TYPE (SURFACE) Gal
COLOR _____

SALT: TYPE NONE VISABLE GRAIN SIZE _____
QUANTITY _____ MEGASCOPIC MINERALS _____
COLOR _____
FORM _____ ALTERATION _____

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

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



MGR3F35 ✓

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13399 Date 8-22-79 Time 1640
Name BOGGS CW Location: Co. GRAHAM State AZ
Sec. SW16 Twp. 6S R. 27E ; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 3760' Quad. SAFFORD
Sampler GROSS

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

DESCRIPTION:

WATER TEMP. °C 24 DISCHARGE 5 gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. _____ DEPTH 220m
ODOR NONE BORE 4"
FLUID COLOR CLEAR PUMP TYPE WIND
FLUID TASTE NONE STATIC HEAD _____
BUBBLING No SCALING _____
BOILING No TYPE OF PIPING IRON
VEGETATION No ARTESIAN HEAD _____

FLUID ISSUES FROM WINDMILL ROCK DATA:
TYPE (SURFACE) RHYOLITE
COLOR _____

SALT: TYPE _____ GRAIN SIZE _____
QUANTITY _____ MEGASCOPIC MINERALS _____
COLOR _____
FORM _____ ALTERATION _____

SINTER: TYPE CaCO3 RX TYPE (AT DEPTH) _____
QUANTITY MODERATE WATER USED FOR IMMEDIATE AREA USED FOR _____
COLOR TAN
FORM GRUSYS QUALITY OF SAMPLE: EXC., GOOD, POOR

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



RS29

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13400 Date AUG 22⁷⁹ Time _____
 Name LITTLE BOY CW Location: Co. GRAHAM State AZ
 Sec. NE 17 Twp. 6S R. 25E ; 1.5 km/mi NE OF PIMA
 Lat. _____ Long. _____ Elevation 2825 Quad. THATCHER
 Sampler U

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

DESCRIPTION:

WATER TEMP. °C 19° DISCHARGE 75 gpm/Lpm
 GROUND TEMP. °C _____ WELL DATA:
 AIR TEMP. _____ DEPTH 2
 ODOR — BORE 2
 FLUID COLOR — PUMP TYPE SMALL IRRIG
 FLUID TASTE SALTY STATIC HEAD _____
 BUBBLING — SCALING _____
 BOILING — TYPE OF PIPING STEEL
 VEGETATION — ARTESIAN HEAD _____
 FLUID ISSUES FROM IRRIG PUMP ROCK DATA:

TYPE (SURFACE) QAL
 COLOR _____

SALT:

TYPE _____ GRAIN SIZE _____
 QUANTITY _____ MEGASCOPIC _____
 COLOR _____ MINERALS _____
 FORM _____ ALTERATION _____

SINTER:

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

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





AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13401 Date AUG 22 Time _____
Name EDEN WS Location: Co. GRAHAM State AZ
Sec. NW 27 Twp. 55 R. 24E ; 1 km/mi NE OF EDEN
Lat. _____ Long. _____ Elevation 2840 Quad. TRATCHER
Sampler _____

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

DESCRIPTION:

WATER TEMP. °C 250 DISCHARGE 10 gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. _____ DEPTH _____

ODOR _____ BORE _____

FLUID COLOR _____ PUMP TYPE _____

FLUID TASTE _____ STATIC HEAD _____

BUBBLING _____ SCALING _____

BOILING _____ TYPE OF PIPING _____

VEGETATION GREEN ALGAE IN POND ARTESIAN HEAD _____

FLUID ISSUES FROM SLOPE ABOVE ROCK DATA:

WASH TYPE (SURFACE) QAL

COLOR GRAY

SALT: GRAIN SIZE _____

TYPE _____ MEGASCOPIC MINERALS _____

QUANTITY _____

COLOR _____

FORM _____ ALTERATION NO

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 NHF

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



25 F31
F32

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13402 Date AUG 22⁷⁹ Time _____

Name INDIAN HS Location: Co. GRAHAM State AZ

Sec. NESE 17 Twp. 5S R. 24E; @ _____ km/mi INDIAN OF H.S.

Lat. _____ Long. _____ Elevation 2800' Quad. THATCHER 15'

Sampler U

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

DESCRIPTION:

WATER TEMP. °C 47° DISCHARGE 75 gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. _____ DEPTH _____

ODOR NO BORE _____

FLUID COLOR — PUMP TYPE _____

FLUID TASTE VERY SALTY STATIC HEAD _____

BUBBLING — SCALING _____

BOILING — TYPE OF PIPING _____

VEGETATION GREEN ALGAE ARTESIAN HEAD _____

FLUID ISSUES FROM STONEWORK ROCK DATA:

PIT IN UNCONSOL. SED TYPE (SURFACE) QAL

HILLSIDE NEAR COLOR GRAY

WASH GRAIN SIZE _____

SALT: TYPE _____ MEGASCOPIC MINERALS _____

QUANTITY X

COLOR X

FORM _____ ALTERATION NO

SINTER: RX TYPE (AT DEPTH) UNCON. SEDS

TYPE _____ WATER USED FOR DOMESTIC

QUANTITY X IMMEDIATE AREA USED FOR COMMUNE

COLOR X

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

PROBABLE CAUSE OF MANIFESTATION FAULT LEAKAGE FROM DEPTH

PROPERTY OWNED BY COMMUNE

PREVIOUS AND/OR CURRENT LEASES NO





AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13403 Date AUG 22 Time _____

Name Roundabout ww Location: Co. Graham State AZ

Sec. SW 3 Twp. 6S R. 23E; _____ km/mi _____ OF _____

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

Sampler U

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

DESCRIPTION:

WATER TEMP. °C 27°

DISCHARGE 10 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA: _____

AIR TEMP. _____

DEPTH ?

ODOR _____

BORE 6"

FLUID COLOR —

PUMP TYPE wm

FLUID TASTE —

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING _____

VEGETATION —

ARTESIAN HEAD _____

FLUID ISSUES FROM wm outlet
PIPE

ROCK DATA: _____
TYPE (SURFACE) QAL - WASH

SALT:

TYPE _____

GRAIN SIZE _____
MEGASCOPIC MINERALS _____

QUANTITY X

COLOR _____

FORM _____

ALTERATION NO

SINTER:

TYPE _____

RX TYPE (AT DEPTH) under SEDS

QUANTITY X

COLOR _____

FORM _____

WATER USED FOR IMMEDIATE AREA USED FOR CATTLE RANCH

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION wm

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



25F34

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13404 Date AUG 22⁷⁹ Time _____

Name TAPE WS Location: Co. GRAHAM State AZ

Sec. WENNE SE 1 Twp. 7S R. 23E; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 3120' Quad. TRATCHER

Sampler _____

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

DESCRIPTION:

WATER TEMP. °C 27°

DISCHARGE 30 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH _____

ODOR —

BORE _____

FLUID COLOR —

PUMP TYPE _____

FLUID TASTE BRACKISH

STATIC HEAD _____

BUBBLING —

SCALING _____

BOILING —

TYPE OF PIPING _____

VEGETATION TULE + GRASS

ARTESIAN HEAD YES

FLUID ISSUES FROM NUMEROUS SEEPS

ROCK DATA:

2 SPRINGS @ BASE

TYPE (SURFACE) QAL - WASH

OF HILLSIDE - OLD ARTESIAN

COLOR _____

WELLS POSS.

SALT:

GRAIN SIZE
MEGASCOPIC
MINERALS _____

TYPE _____

QUANTITY _____

COLOR X

FORM _____

ALTERATION NO

SINTER:

RX TYPE (AT DEPTH) SEDS

TYPE _____

WATER USED FOR
IMMEDIATE AREA
USED FOR CATTLE
RANCH

QUANTITY X

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION N.H.F.

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES _____



ASR4F12

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13405 Date 22-8-79 Time 12:00 Noon

Name Deer Creek WS Location: Co Graham State AZ

Sec. NE/NE 23 Twp. 5S R. 19E ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 4270 Quad. Colore Grande Mt. 7.5

Sampler AS-FD

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

DESCRIPTION:

WATER TEMP. °C 26°C

DISCHARGE 10 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 33°C

DEPTH _____

ODOR none (covey)

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 pipe (2") in rock wall

ROCK DATA:

TYPE (SURFACE) Limestone covered by vol. conglomerate

COLOR _____

SALT:

GRAIN SIZE _____
MEGASCOPIC MINERALS _____

TYPE _____

QUANTITY no

COLOR no

FORM _____

ALTERATION no

SINTER:

RX TYPE (AT DEPTH) sedimentary

TYPE _____

WATER USED FOR IMMEDIATE AREA cattle
USED FOR same

QUANTITY no

COLOR no

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



ASR4F13 ✓

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13406 Date 22-8-79 Time 5:00pm

Name Moose Creek Location: Co. _____ State _____

Sec. NE/NW/NE 30 Twp. 5S R. 22 E ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 3010 Quad. Jackson Mt. 15'

Sampler AC - FD

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

DESCRIPTION:

WATER TEMP. °C ~~23~~ 23°C DISCHARGE Variable gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. 38°C DEPTH ?

ODOR none BORE 6"

FLUID COLOR clear PUMP TYPE w/mill

FLUID TASTE OK STATIC HEAD ?

BUBBLING no SCALING no

BOILING no TYPE OF PIPING steel

VEGETATION no ARTESIAN HEAD ?

FLUID ISSUES FROM windmill ROCK DATA:

TYPE (SURFACE) Qal-granite

COLOR white

GRAIN SIZE coarse
MEGASCOPIC MINERALS usual

SALT:

TYPE _____

QUANTITY NO

COLOR _____

FORM _____

ALTERATION slight

RX TYPE (AT DEPTH) granite

SINTER:

TYPE _____

QUANTITY NO

COLOR _____

FORM _____

WATER USED FOR IMMEDIATE AREA cattle
USED FOR same

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. 13407 Date 8-21-79 Time 10:30 AM

Name Dry HS CS Location: Co. Greenlee State AZ

Sec. NW NW NE 35 Twp. 4S R. 28E ; .8 km/mi South OF Eagle Creek Pumping Station

Lat. _____ Long. _____ Elevation 3760 Quad. Clifton 15'

Sampler MP & TB

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

DESCRIPTION:

WATER TEMP. °C 22°

DISCHARGE 22 gpm/Lpm

GROUND TEMP. °C -

WELL DATA:

AIR TEMP. -

DEPTH _____

ODOR None

BORE _____

FLUID COLOR Clear

PUMP TYPE _____

FLUID TASTE None

STATIC HEAD _____

BUBBLING |

SCALING _____

BOILING _____

TYPE OF PIPING _____

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM _____

ROCK DATA:

TYPE (SURFACE) Ash Flow / Breccia

COLOR _____

SALT:

GRAIN SIZE _____

TYPE |

MEGASCOPIC MINERALS _____

QUANTITY _____

COLOR _____

FORM |

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) Basalt; Rhyolite

TYPE |

WATER USED FOR _____

QUANTITY _____

IMMEDIATE AREA _____

COLOR _____

USED FOR Recreation

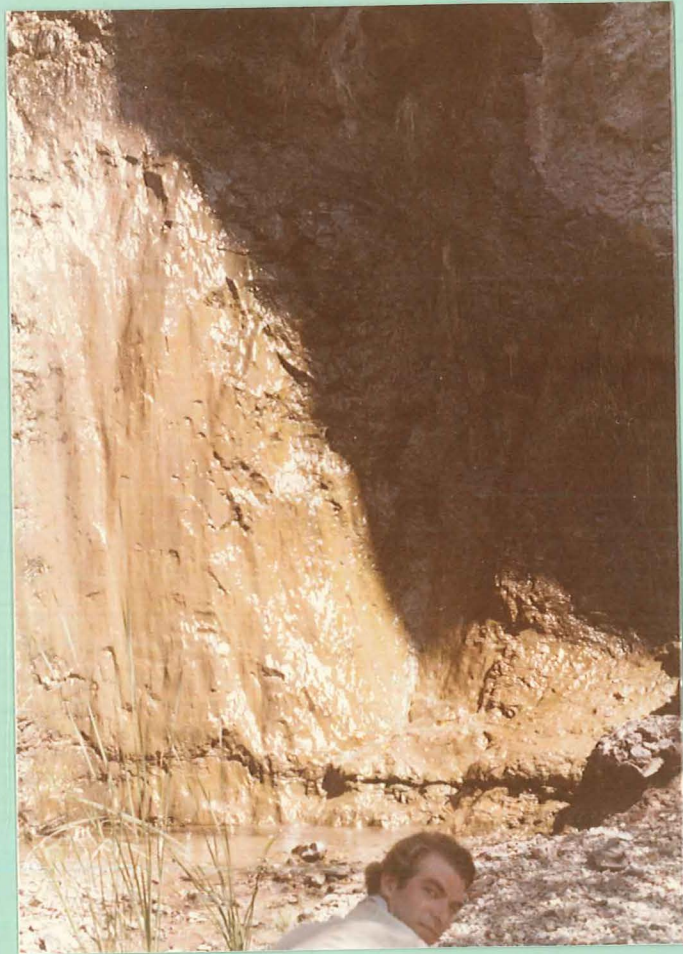
FORM |

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION N.H.F

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES ?



F35R4C2



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13408 Date 8/23/79 Time 11:30 am
Name Dripping Spring Location: Co. Graham State Az
Sec. 9 Twp. 10 S R. 29 E; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 4080 Quad. Levelina Plk
Sampler CW

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

DESCRIPTION:

WATER TEMP. °C 27°

DISCHARGE < 1 (gpm/Lpm)

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 37.5°

DEPTH _____

ODOR NONE

BORE _____

FLUID COLOR SLIGHTLY CLOUDY

PUMP TYPE SPRING

FLUID TASTE NONE

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING _____

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM _____

ROCK DATA:

TYPE (SURFACE) RAYOLITE

COLOR _____

SALT:

GRAIN SIZE MEGASCOPIC MINERALS PLAG -> 2.5cm

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION MIME Fe.

SINTER:

RX TYPE (AT DEPTH) RAYOLITE possible Basalt

TYPE _____

WATER USED FOR IMMEDIATE AREA USED FOR _____

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION seep between flows? fault?

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



~~PHOTO DID NOT COME~~
F36 R4 CW ✓

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13409 Date 8/23/79 Time 1230
Name Flowing Well Location: Co. Yavapai State AZ
Sec. 36 Twp. 10S R. 28E; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 3437 Quad. Javelina Park
Sampler OW

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

DESCRIPTION:

WATER TEMP. °C 42°
GROUND TEMP. °C _____
AIR TEMP. 35°
ODOR NONE
FLUID COLOR CLEAR
FLUID TASTE NONE
BUBBLING _____
BOILING _____
VEGETATION _____

DISCHARGE 50+ gpm/Lpm

WELL DATA:

DEPTH ?
BORE 15"
PUMP TYPE NONE
STATIC HEAD _____
SCALING _____
TYPE OF PIPING _____
ARTESIAN HEAD _____

FLUID ISSUES FROM STEEL PIPE
NO PUMP

ROCK DATA:

TYPE (SURFACE) SAND
COLOR _____
GRAIN SIZE _____
MEGASCOPIC MINERALS _____

SALT:

TYPE _____
QUANTITY _____
COLOR _____
FORM _____

ALTERATION _____

SINTER:

TYPE _____
QUANTITY _____
COLOR _____
FORM _____

RX TYPE (AT DEPTH) ?
WATER USED FOR IMMEDIATE AREA CATTLE
USED FOR GRAZING

QUALITY OF SAMPLE: EXC., GOOD, POOR

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



NO PHOTO



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13410 Date 8/23/99 Time 5:00pm
Name Cu Cold Well Location: Co. Greenup State Az
Sec. 15 Twp. 6S R. 32E; km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 4640 Quad. York Valley
Sampler CW

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

DESCRIPTION:

WATER TEMP. °C 22° DISCHARGE 5-10 gpm/Lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. 35 DEPTH 215 M
ODOR Sulphur BORE 6"
FLUID COLOR Clear PUMP TYPE Windmill
FLUID TASTE None? STATIC HEAD _____
BUBBLING _____ SCALING _____
BOILING _____ TYPE OF PIPING _____
VEGETATION _____ ARTESIAN HEAD _____
FLUID ISSUES FROM STEEL Pipe ROCK DATA:
TYPE (SURFACE) Q21
COLOR _____
GRAIN SIZE _____
MEGASCOPIC MINERALS _____
SALT: TYPE CaCO3
QUANTITY Minor
COLOR WHITE
FORM Encrusting ALTERATION Cu Mineralization
SINTER: RX TYPE (AT DEPTH) Calc Orange
TYPE _____ WATER USED FOR Cattle
QUANTITY _____ IMMEDIATE AREA USED FOR GRAZING
COLOR _____
FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR
PROBABLE CAUSE OF MANIFESTATION Fault - is in line with mine fault
PROPERTY OWNED BY _____
PREVIOUS AND/OR CURRENT LEASES _____

NB Photo

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13411 Date 8/23/79 Time 6³⁰ pm
Name BLACKFIELD Location: Co. Greenb State AG
Sec. 2 Twp. 9S R. 31E; km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 3920 Quad. Duncan
Sampler CW

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

DESCRIPTION:

WATER TEMP. °C	<u>29°</u>	DISCHARGE	<u>3-5</u> (gpm/Lpm)
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>28°</u>	DEPTH	<u>? (reported 200')</u>
ODOR	<u>NONE</u>	BORE	<u>6"</u>
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	<u>WINDMILL</u>
FLUID TASTE	<u>NONE</u>	STATIC HEAD	_____
BUBBLING	_____	SCALING	_____
BOILING	_____	TYPE OF PIPING	_____
VEGETATION	_____	ARTESIAN HEAD	_____
FLUID ISSUES FROM	<u>STEEL PIPE</u>	ROCK DATA:	
	_____	TYPE (SURFACE)	<u>Cal</u>
	_____	COLOR	_____
SALT:		GRAIN SIZE	_____
TYPE	_____	MEGASCOPIC	_____
QUANTITY	_____	MINERALS	_____
COLOR	_____		
FORM	_____	ALTERATION	<u>?</u>
		RX TYPE (AT DEPTH)	<u>?</u>
SINTER:		WATER USED FOR	<u>ATTN</u>
TYPE	_____	IMMEDIATE AREA	_____
QUANTITY	_____	USED FOR	<u>GRAZING</u>
COLOR	_____		
FORM	_____	QUALITY OF SAMPLE: EXC., GOOD, POOR	<u>GOOD</u>

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13412 Date 8/23/79 Time 7:00 pm

Name GAS Location: Co. Cochise State Az

NE Sec. 2 Twp. 9S R. 31E ; 3 km/mi SW OF Duncan

Lat. _____ Long. _____ Elevation 3920 Quad. Duncan

Sampler CW

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

DESCRIPTION:

WATER TEMP. °C 38.0 DISCHARGE ? gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. _____ DEPTH ?

ODOR NONE BORE 6"

FLUID COLOR CLEAR PUMP TYPE Submerge.

FLUID TASTE NONE STATIC HEAD _____

BUBBLING _____ SCALING _____

BOILING _____ TYPE OF PIPING _____

VEGETATION _____ ARTESIAN HEAD _____

FLUID ISSUES FROM Valve from ROCK DATA:

pressure tank TYPE (SURFACE) Qal

COLOR _____

SALT: GRAIN SIZE _____

TYPE _____ MEGASCOPIC _____

QUANTITY _____ MINERALS _____

COLOR _____

FORM _____ ALTERATION _____

SINTER: RX TYPE (AT DEPTH) ?

TYPE _____ WATER USED FOR _____

QUANTITY _____ IMMEDIATE AREA _____

COLOR _____ USED FOR GAS Pump Station

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

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____

NO PHOTO

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13413 Date AUG 23 79 Time _____

Name CANADOR CW Location: Co. HIDALGO State NM

Sec. NE 16 Twp. 19S R. 20W; km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 4097 Quad. CANADOR PEAK 15'

Sampler U

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

DESCRIPTION:

WATER TEMP. °C 210 DISCHARGE 3 gpm/lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. _____ DEPTH 45m

ODOR _____ BORE 8"

FLUID COLOR _____ PUMP TYPE WM

FLUID TASTE HARD? STATIC HEAD ~30m

BUBBLING _____ SCALING _____

BOILING _____ TYPE OF PIPING STEEL

VEGETATION _____ ARTESIAN HEAD NO

FLUID ISSUES FROM WM OUTLET PIPE ROCK DATA: TYPE (SURFACE) 'QAL (SHALLOW)

COLOR GRAY - BLK

GRAIN SIZE SAND - BOULDER
MEGASCOPIC MINERALS _____

SALT:

TYPE _____

QUANTITY X

COLOR _____

FORM _____

ALTERATION NO

SINTER:

RX TYPE (AT DEPTH) BASALT

TYPE _____ WATER USED FOR IMMEDIATE AREA CATTLE

QUANTITY X USED FOR RANCH

COLOR _____

FORM _____ QUALITY OF SAMPLE: (EXC), GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION WM

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES _____

RSF37

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13414 Date _____ Time _____

Name BURTCH CW Location: Co. HILARIO State NM

Sec. SW NW 1 Twp. 20S R. 21W; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation _____ Quad. CANADOR PEAK 15'

Sampler G

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

DESCRIPTION:

WATER TEMP. °C 23.0

DISCHARGE 2 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH ?

ODOR _____

BORE 8"

FLUID COLOR _____

PUMP TYPE WM

FLUID TASTE _____

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING _____

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM WM OUTLET

ROCK DATA:

PIPE

TYPE (SURFACE) QAL

COLOR SANDY-BLACK

GRAIN SIZE SAND-7 Boulders

MEGASCOPIC MINERALS _____

SALT:

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

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 WM

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



RF35

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13415 Date AUG 23 79 Time _____
Name HALL'S CAW Location: Co. GRAHAM State AZ
Sec. SW 26 Twp. 7S R. 25E ; km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 3152 Quad. THATCHER
Sampler _____

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

DESCRIPTION:

WATER TEMP. °C 240 DISCHARGE 2 gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. _____ DEPTH _____
ODOR COLD DRUG POSS. H₂S BORE _____
FLUID COLOR _____ PUMP TYPE _____
FLUID TASTE _____ STATIC HEAD _____
BUBBLING _____ SCALING _____
BOILING _____ TYPE OF PIPING _____
VEGETATION _____ ARTESIAN HEAD YES

FLUID ISSUES FROM OUTLET PIPE OF OLD ARTESIAN WELL
ROCK DATA:
TYPE (SURFACE) QAL
COLOR GRAY BRN

SALT:
TYPE _____ GRAIN SIZE SILT
QUANTITY _____ MEGASCOPIC MINERALS _____
COLOR _____ ALTERATION NO

SINTER:
RX TYPE (AT DEPTH) UNCON. SPDS
TYPE _____ WATER USED FOR CATTLE
QUANTITY _____ IMMEDIATE AREA USED FOR RANCH
COLOR _____
FORM _____ QUALITY OF SAMPLE: EXC. GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION ARTESIAN FLOW UP OLD, SILTED-UP WELL
PROPERTY OWNED BY ? NFS
PREVIOUS AND/OR CURRENT LEASES _____



RS F 36

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13416 Date AUG 23 79 Time _____
Name MESA HAW Location: Co. GRAHAM State AZ
Sec. SW 26 Twp. 7S R. 25E; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 3152 Quad. TRATCHER 15'
Sampler 5

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

DESCRIPTION:

WATER TEMP. °C 40° DISCHARGE 20 gpm/lpm
GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. _____ DEPTH _____
ODOR H₂S BORE 16"
FLUID COLOR — PUMP TYPE NONE
FLUID TASTE _____ STATIC HEAD _____
BUBBLING _____ SCALING STEEL RUSTED
BOILING _____ TYPE OF PIPING CORRODED STEEL
VEGETATION GREEN ALGAE ARTESIAN HEAD YES

FLUID ISSUES FROM OLD WELL ROCK DATA:
HEAD TYPE (SURFACE) QAL
COLOR GRAY

SALT: TYPE _____ GRAIN SIZE _____
QUANTITY _____ MEGASCOPIC MINERALS _____
COLOR _____
FORM _____ ALTERATION NO

SINTER: RX TYPE (AT DEPTH) SFDS - VEGAS
TYPE _____ WATER USED FOR IMMEDIATE AREA CATTLE
QUANTITY _____ USED FOR RANCH
COLOR _____
FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION ARTESIAN FLOW UP OLD WELL
PROPERTY OWNED BY NFS
PREVIOUS AND/OR CURRENT LEASES _____



M6R3F36 ✓

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13417 Date 8-23-79 Time 1425
Name BIG WW Location: Co. GRAHAM State AZ
Sec. NE5 Twp. 7S R. 27E ; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 3235 Quad. SAFFORD 15'
Sampler BOGGS

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

DESCRIPTION:

WATER TEMP. °C 31°

DISCHARGE ~5 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH ~100m

ODOR None

BORE 3"

FLUID COLOR Clear

PUMP TYPE WIND

FLUID TASTE Bitter

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING —

TYPE OF PIPING _____

VEGETATION —

ARTESIAN HEAD _____

FLUID ISSUES FROM Windmill

ROCK DATA:

TYPE (SURFACE) Gal

COLOR _____

SALT:

GRAIN SIZE
MEGASCOPIC
MINERALS _____

TYPE None

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) _____

TYPE None

WATER USED FOR
IMMEDIATE AREA
USED FOR Stock
Rangeland

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



Jim Hunsaker

PIR5CW

Box 42
Franklin Az 85534



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13418 Date 8/24/79 Time 9⁰⁰ am
Name HUNSAKER WELL Location: Co. Graham State Az
Sec. 4 Twp. 9S R. 32E; IN km/mi _____ OF Franklin
Lat. _____ Long. _____ Elevation 3750 Quad. Duncan
Sampler CW

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

DESCRIPTION:

WATER TEMP. °C	<u>19°</u>	DISCHARGE	<u>5-10</u> <u>gpm/Lpm</u>
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>28</u>	DEPTH	<u>?</u>
ODOR	<u>NONE</u>	BORE	<u>?</u>
FLUID COLOR	<u>CLEAR</u>	PUMP TYPE	<u>Submersa (reported)</u>
FLUID TASTE	<u>SALTY</u>	STATIC HEAD	_____
BUBBLING		SCALING	
BOILING		TYPE OF PIPING	_____
VEGETATION		ARTESIAN HEAD	_____
FLUID ISSUES FROM	<u>FAUCET</u>	ROCK DATA:	
_____	_____	TYPE (SURFACE)	<u>Q21</u>
_____	_____	COLOR	_____
SALT:		GRAIN SIZE	_____
TYPE	<u>?</u>	MEGASCOPIIC	_____
QUANTITY	_____	MINERALS	_____
COLOR	_____		
FORM	<u>TASTE</u>	ALTERATION	<u>-?</u>
SINTER:		RX TYPE (AT DEPTH)	<u>?</u>
TYPE	_____	WATER USED FOR	<u>Domestic / CATTLE</u>
QUANTITY		IMMEDIATE AREA	_____
COLOR		USED FOR	<u>FARM</u>
FORM		QUALITY OF SAMPLE: EXC., <u>GOOD</u> , POOR	
PROBABLE CAUSE OF MANIFESTATION	<u>NATURAL WATER TABLE</u>		
PROPERTY OWNED BY	_____		
PREVIOUS AND/OR CURRENT LEASES	_____		





AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13419 Date 8/24/79 Time 1:00pm
 Name RAILROAD WELL Location: Co. Hidalgo State N. Mex
 Sec. 17 Twp. 20s R. 21w; km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 4000 Quad. Duncan
 Sampler CW

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

DESCRIPTION:

WATER TEMP. °C	<u>26°</u>	DISCHARGE	<u>VARIABLE</u> gpm/Lpm
GROUND TEMP. °C	_____	WELL DATA:	
AIR TEMP.	<u>35</u>	DEPTH	<u>33 M (+?)</u>
ODOR	<u>NONE</u>	BORE	<u>10"</u>
FLUID COLOR	<u>CLOUDY BRN</u>	PUMP TYPE	<u>WINDMILL</u>
FLUID TASTE	<u>BITTER</u>	STATIC HEAD	_____
BUBBLING		SCALING	_____
BOILING		TYPE OF PIPING	_____
VEGETATION	_____	ARTESIAN HEAD	_____
FLUID ISSUES FROM	<u>STEEL PIPE</u>	ROCK DATA:	
_____	_____	TYPE (SURFACE)	<u>021</u>
_____	_____	COLOR	_____
SALT:		GRAIN SIZE	_____
TYPE		MEGASCOPIC	_____
QUANTITY		MINERALS	_____
COLOR			
FORM		ALTERATION	<u>—</u>
SINTER:		RX TYPE (AT DEPTH)	<u>?</u>
TYPE		WATER USED FOR	<u>CATTLE</u>
QUANTITY		IMMEDIATE AREA	<u>GRAZING</u>
COLOR		USED FOR	
FORM			

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION NATURAL H₂O TABLE
 PROPERTY OWNED BY _____
 PREVIOUS AND/OR CURRENT LEASES _____



F3RSCW



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13420 Date 8/21/79 Time 4:30 pm
Name BIG TANK WINDMILL Location: Co. Greenlee State AZ
Sec. 35 Twp. 10S R. 32E ; km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 4340 Quad. Duncan
Sampler CW

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

DESCRIPTION:

WATER TEMP. °C 29
GROUND TEMP. °C _____
AIR TEMP. 35
ODOR None
FLUID COLOR Cloudy
FLUID TASTE None
BUBBLING |
BOILING |
VEGETATION |
FLUID ISSUES FROM _____

DISCHARGE Variable gpm/Lpm

WELL DATA:

DEPTH ?
BORE ?
PUMP TYPE Windmill
STATIC HEAD _____
SCALING _____
TYPE OF PIPING STEEL
ARTESIAN HEAD _____

ROCK DATA:

TYPE (SURFACE) Soil
COLOR _____
GRAIN SIZE MEGASCOPIC MINERALS _____

SALT:

TYPE _____
QUANTITY _____
COLOR _____
FORM _____

ALTERATION ?
RX TYPE (AT DEPTH) ?

SINTER:

TYPE _____
QUANTITY _____
COLOR _____
FORM _____

WATER USED FOR IMMEDIATE AREA USED FOR PARTICE GRATING

QUALITY OF SAMPLE: EXC., GOOD, POOR

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



MGR4F1 ✓

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13421 Date 8-24-79 Time 1700
Name MANGAS CS Location: Co. GRANT State N.M.
Sec. 9 Twp. 17S R. 16W; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 4750' Quad. CLIFF 15'
Sampler Gross

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

DESCRIPTION:

WATER TEMP. °C 21°

DISCHARGE 2/0 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 None

ARTESIAN HEAD _____

FLUID ISSUES FROM Seep alongside old highway

ROCK DATA:

TYPE (SURFACE) Pal

COLOR _____

SALT:

GRAIN SIZE _____
MEGASCOPIC MINERALS _____

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) _____

TYPE _____

WATER USED FOR IMMEDIATE AREA USED FOR Stock pasture

QUANTITY _____

COLOR _____

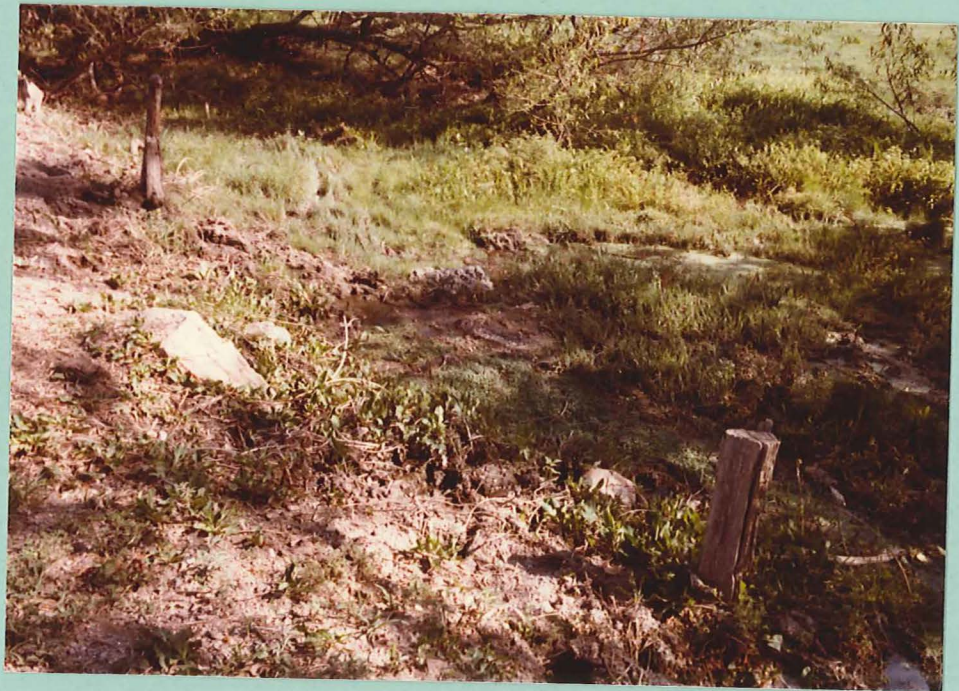
FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



Same as Apache ΔT

ASR41-14

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13422 Date 24-8-79 Time 12 Noon

Name Apache CAW Location: Co. Hid. State NM

Sec. sw/sw 34 Twp. 21S R. 17W ; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 5090 Quad. Gold Hill 7.5'

Sampler AS (Silver City AMS)

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 .5 gpm/lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 30°C

DEPTH 100 mt

ODOR none

BORE 6"

FLUID COLOR slightly cloudy

PUMP TYPE none

FLUID TASTE OK

STATIC HEAD sur.

BUBBLING no

SCALING CaCO₃

BOILING no

TYPE OF PIPING sted

VEGETATION no

ARTESIAN HEAD surface

FLUID ISSUES FROM drill hole

ROCK DATA:

TYPE (SURFACE) Qal over granite

COLOR pink

GRAIN SIZE v. coarse
MEGASCOPIC MINERALS _____

SALT:

TYPE CaCO₃

QUANTITY ND

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) _____

TYPE _____

QUANTITY ND

COLOR _____

FORM _____

WATER USED FOR IMMEDIATE AREA USED FOR _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



ASR4F15 ✓

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13423 Date 24-8-79 Time 3:20 PM
Name Deepic CW Location: Co. Grant State N.M.
Sec. NE/15 Twp. 22S R. 14W ; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 5204 Quad. Wenay Hill 7.5
Sampler 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 10 (gpm)/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. 34°C

DEPTH deep (⇒ 100m)

ODOR none

BORE 6" ?

FLUID COLOR clear

PUMP TYPE jack

FLUID TASTE good

STATIC HEAD ?

BUBBLING no

SCALING slight CaCO₃

BOILING no

TYPE OF PIPING steel

VEGETATION no

ARTESIAN HEAD ?

FLUID ISSUES FROM well with windmill and running Jensen jack pump.

ROCK DATA:

TYPE (SURFACE) Qal

COLOR red

SALT:

TYPE CaCO₃

GRAIN SIZE MEGASCOPIC MINERALS _____

QUANTITY slight

COLOR white

FORM crust

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) ? volcanics

TYPE _____

WATER USED FOR IMMEDIATE AREA USED FOR cattle same

QUANTITY NO

COLOR _____

FORM _____

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

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



R5F38
R6F0,1

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13424 Date AVG 24 79 Time _____

Name HARPER CW Location: Co. GRANT State NM

Sec. NE 35 Twp. 19S R. 19W; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 4323 Quad. CANADOR PEAK 15'

Sampler U

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

DESCRIPTION:

WATER TEMP. °C 25°

DISCHARGE 2 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH _____

ODOR _____

BORE 6"

FLUID COLOR —

PUMP TYPE wm

FLUID TASTE —

STATIC HEAD _____

BUBBLING —

SCALING _____

BOILING —

TYPE OF PIPING _____

VEGETATION GREEN ALGAE

ARTESIAN HEAD _____

FLUID ISSUES FROM STORAGE

ROCK DATA:

TANK INTO

TYPE (SURFACE) QAL

CATTLE TANK

COLOR _____

SALT:

GRAIN SIZE _____
MEGASCOPIC MINERALS _____

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION NO

SINTER:

RX TYPE (AT DEPTH) QAL

TYPE _____

WATER USED FOR IMMEDIATE AREA USED FOR _____

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION wm

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____



RGFZ

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13425 Date AUG 24 79 Time _____

Name HACKBERRY WW Location: Co. HIDALGO State NM

Sec. CENTER 13 Twp. 22S R. 21W; km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 4158 Quad. SUMMIT 7.5

Sampler _____

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

DESCRIPTION:

WATER TEMP. °C 250

DISCHARGE 10 gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH _____

ODOR _____

BORE _____

FLUID COLOR —

PUMP TYPE _____

FLUID TASTE —

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING _____

VEGETATION —

ARTESIAN HEAD _____

FLUID ISSUES FROM LEAK IN

ROCK DATA:

WM OUTPUT PIPE -

TYPE (SURFACE) QAL

HEBDOICALLY SAMPLED

COLOR BROWN

SALT:

GRAIN SIZE _____
MEGASCOPIC MINERALS _____

TYPE _____

QUANTITY X

COLOR _____

FORM _____

ALTERATION NO

SINTER:

RX TYPE (AT DEPTH) _____

TYPE _____

WATER USED FOR IMMEDIATE AREA USED FOR _____

QUANTITY X

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION WM

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES _____



R6F3

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13426 Date AUG 24 79 Time _____
 Name R.B. CW Location: Co. INDALGO State NM
 Sec. NE 22 Twp. 22S R. 19W; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 4173 Quad. 9-MILE HILL
 Sampler W

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

DESCRIPTION:

WATER TEMP. °C 19.0 DISCHARGE ~2 gpm/Lpm
 GROUND TEMP. °C _____ WELL DATA:
 AIR TEMP. _____ DEPTH 45m
 ODOR _____ BORE 6"
 FLUID COLOR _____ PUMP TYPE WM
 FLUID TASTE — STATIC HEAD 30m
 BUBBLING _____ SCALING _____
 BOILING _____ TYPE OF PIPING STEEL + PVC
 VEGETATION _____ ARTESIAN HEAD NO
 FLUID ISSUES FROM WM OUTLET PIPE ROCK DATA:
 TYPE (SURFACE) QAL
 COLOR Brown

SALT:

TYPE _____ GRAIN SIZE _____
 QUANTITY _____ MEGASCOPIC _____
 COLOR _____ MINERALS _____
 FORM _____ ALTERATION NO

SINTER:

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

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



MGR4 F 263 ✓

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13427 Date 8-25-79 Time 1325
Name KENNECOTT HS (FAYWOOD HS) Location: Co. GRANT State NM
Sec. NE20 Twp. 20S R. 11W ; _____ km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 5020' Quad. DWYER 15'
Sampler MG + TB

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

DESCRIPTION:

WATER TEMP. °C 54° DISCHARGE ~20 gpm/Lpm _____

GROUND TEMP. °C _____ WELL DATA:
AIR TEMP. _____ DEPTH _____
ODOR _____ BORE _____
FLUID COLOR CLEAR PUMP TYPE _____
FLUID TASTE NONE STATIC HEAD _____
BUBBLING NOT VISIBLE BUT ACCORDING TO LITERATURE, YES SCALING _____
BOILING _____ TYPE OF PIPING _____
VEGETATION _____ ARTESIAN HEAD _____

FLUID ISSUES FROM Large travertine mound (1/4 mile across!) ROCK DATA:
TYPE (SURFACE) Gal
COLOR _____

SALT: TYPE _____ GRAIN SIZE _____
MEGASCOPIC MINERALS _____
QUANTITY _____
COLOR _____
FORM _____ ALTERATION _____

SINTER: TYPE CaCO₃ RX TYPE (AT DEPTH) granite or flow res.?
QUANTITY MAJOR WATER USED FOR IMMEDIATE AREA Park (Company owned)
COLOR TAN USED FOR Ranching
FORM AMORPHOUS QUALITY OF SAMPLE: EXC, GOOD, POOR

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

NOTE - NEARBY "CITY OF ROCKS" PARK SIGN MENTIONS VOLCANO THAT IS ~1my. old, andesitic(?) composition



NB. Photo ✓

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13428 Date 8/25/79 Time 12³⁰

Name Son Cold Well Location: Co. Cochise State Az

NE Sec. 29 Twp. 13s R. 31E; _____ km/mi _____ OF _____

Lat. _____ Long. _____ Elevation 3620 Quad. Son Simon

Sampler _____

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

DESCRIPTION:

WATER TEMP. °C 29°

DISCHARGE 100 + gpm/Lpm

GROUND TEMP. °C _____

WELL DATA:

AIR TEMP. _____

DEPTH reported son pump set @ 250'

ODOR NONE

BORE 8"

FLUID COLOR CLEAR

PUMP TYPE Submerge

FLUID TASTE NONE

STATIC HEAD _____

BUBBLING _____

SCALING _____

BOILING _____

TYPE OF PIPING STEEL

VEGETATION _____

ARTESIAN HEAD _____

FLUID ISSUES FROM STEEL pipe

ROCK DATA:

TYPE (SURFACE) Qz

COLOR _____

SALT:

GRAIN SIZE MEGASCOPIC MINERALS _____

TYPE _____

QUANTITY _____

COLOR _____

FORM _____

ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) ?

TYPE _____

WATER USED FOR IMMEDIATE AREA USED FOR irrigation FARM

QUANTITY _____

COLOR _____

FORM _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____

JMD R6F35



AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13429 Date 24.08.79 Time 8:30
 Name NIELSON'S CW Location: Co. Apache State AZ
 Sec. NENE NE NE 18 Twp. 10N R. 31E; km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 7165 Quad. The Rincon 7.5
 Sampler FD + JMD

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

DESCRIPTION:

WATER TEMP. °C	<u>26°C</u>	DISCHARGE	<u>100⁺</u> gpm/Lpm
GROUND TEMP. °C	<u>-</u>	WELL DATA:	
AIR TEMP.	<u>-</u>	DEPTH	<u>? (~ 500m)</u>
ODOR	<u>none</u>	BORE	_____
FLUID COLOR	_____	PUMP TYPE	<u>DIESEL</u>
FLUID TASTE	<u>Fe, Ca, Chloride (?)</u>	STATIC HEAD	<u>-</u>
BUBBLING	<u>-</u>	SCALING	<u>(Fe stains)</u>
BOILING	<u>-</u>	TYPE OF PIPING	<u>steel</u>
VEGETATION	<u>-</u>	ARTESIAN HEAD	<u>-</u>
FLUID ISSUES FROM	<u>irrigation pump -</u>	ROCK DATA:	
		TYPE (SURFACE)	<u>Basalt</u>
		COLOR	<u>-</u>

SALT:

TYPE	_____	GRAIN SIZE	_____
QUANTITY	_____	MEGASCOPIC	_____
COLOR	_____	MINERALS	_____
FORM	_____	ALTERATION	<u>Age</u>

SINTER:

TYPE	_____	RX TYPE (AT DEPTH)	<u>Basalt, tuff, pyroclastics</u>
QUANTITY	_____	WATER USED FOR IMMEDIATE AREA	<u>Road Construction</u>
COLOR	_____	USED FOR	<u>Coal power plant (Construct)</u>
FORM	_____	QUALITY OF SAMPLE:	<u>EXC.</u> GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION Well + Pump
 PROPERTY OWNED BY ?
 PREVIOUS AND/OR CURRENT LEASES _____

JMD R6 F4

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13430 Date 25.08.79 Time 12:10
Name HATCHET CW Location: Co. Hidalgo State N.Mex
Sec. SW SW SW 11 Twp. 31s R. 16w ; km/mi _____ OF _____
Lat. _____ Long. _____ Elevation 4398 Quad. Big Hatchet Peak 15
Sampler JMD

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

DESCRIPTION:

WATER TEMP. °C 22°C DISCHARGE variable gpm/Lpm
GROUND TEMP. °C - WELL DATA:
AIR TEMP. - DEPTH ~40m
ODOR none BORE 8" casing - 2" pipe
FLUID COLOR clear PUMP TYPE wind
FLUID TASTE none STATIC HEAD -
BUBBLING - SCALING CaCO₃ + FeO
BOILING - TYPE OF PIPING Steel
VEGETATION - ARTESIAN HEAD -
FLUID ISSUES FROM windmill ROCK DATA:

SALT:

TYPE _____ GRAIN SIZE _____
QUANTITY _____ MEGASCOPIC _____
COLOR _____ MINERALS _____
FORM _____ ALTERATION ?

SINTER:

TYPE _____ RX TYPE (AT DEPTH) ? Sed rx
QUANTITY _____ WATER USED FOR Cattle
COLOR _____ IMMEDIATE AREA _____
FORM _____ USED FOR _____

QUALITY OF SAMPLE: (EXC), GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION wind

PROPERTY OWNED BY ?

PREVIOUS AND/OR CURRENT LEASES ?

RGF4

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. 13431 Date AUG 26 79 Time _____
 Name JANELINA CW Location: Co. HIDALGO State NM
 Sec. NW 30 Twp. 33S R. 18W; _____ km/mi _____ OF _____
 Lat. _____ Long. _____ Elevation 5200' Quad. ANTELOPE WELLS 15
 Sampler U

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

DESCRIPTION:

WATER TEMP. °C 19° DISCHARGE 1 gpm/Lpm
 GROUND TEMP. °C _____ WELL DATA:
 AIR TEMP. _____ DEPTH 35m
 ODOR _____ BORE 6"
 FLUID COLOR --- PUMP TYPE WM
 FLUID TASTE --- STATIC HEAD 30
 BUBBLING _____ SCALING _____
 BOILING _____ TYPE OF PIPING STEEL
 VEGETATION --- ARTESIAN HEAD NO
 FLUID ISSUES FROM WM ROCK DATA:

TYPE (SURFACE) PAL - WASH
 COLOR GRAY
 GRAIN SIZE BOULDER - FG SAND
 MEGASCOPIC MINERALS _____

SALT:

TYPE _____ ALTERATION NO
 QUANTITY X RX TYPE (AT DEPTH) PROB. OLD SEOS
 COLOR _____
 FORM _____

SINTER:

TYPE _____ WATER USED FOR IMMEDIATE AREA WELL - JANELINA
 QUANTITY X USED FOR RANCH
 COLOR _____
 FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

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

