

12/04/78

Wrtt: Duncan

RE: TYPES OF INFO for DATA BASE

Prohibited areas

KGRAs

use (from OR contacts)

Geothermal Data:

GEOTHERM
+
others ⇒springs } Areal Distribution
wells }

heat flow + thermal gradient

spring deposits

faults

lineaments

earthquakes / microseismic activity

Hg, As, S, U prospects / deposits
(Mo, F, Au/Ag)

geochemical thermometry

any water chem we can do

igneous r/v

old / young

volcanics / intrusives

PI file data

other geology

geophysical studies available

available maps

LAND STATUS DATA

LAND USE DATA

12/05/78

With: Mike Wright + Duncan Foley
RE: ORGANIZATION OF DATA BASE

- DEFINITION

envisioned as comprehensive data package including:

GEOTERM FILE DATA

MAPS

REPORTS

All placed in a "Central File" (name to be changed)

- Geographic Prioritization

start w/ well-known KGRA such as Roosevelt

most data already compiled - will allow

concentrated work on filing + organization

expand to entire RMB+R

may eventually be nationwide

- Physical Organization

solicit suggestions from former "company"

people concerning effective filing and
cross referencing systems

- Involve STATE Coupled People

reproduction of their files?

- Reproduction of personal files at ESL
how much?

- Responsibility
work initially w/ Duncan
w/ input from Mike

Schedule meeting w/ PMM on 12/12 or 12/13
to discuss further

12/06/78

TO: DF

From: DWS

RE: SOURCES OF INFO FOR GEO-GIF

- ESL

reports + maps

personal files (selected portions)

core library study results (proprietary or public info?)

- Department

theses, dissertations

faculty studies?

- Available geologic maps + reports

- Unpublished USGS reports + maps (open-file)

- Geotherm File

- Aerial photography + satellite imagery

- STATE publications

- DOE reports (OR reports etc.)

- ENVIRONMENTAL REPORTS

- UTILITY COMPANY REPORTS?

- OTHER GOVT. PUBLICATIONS + REPORTS

Forest Service

BLM

Bureau Rec

Bureau Mines

BIA

Army Corp.

- Local sources

minutes of public hearings + meetings dealing w/
geothermal

local water boards

- LAND STATUS MAPS
- List of Appropriate STATE Agencies for follow-up work
- PI File DATA
- Idle Gossip

12/06/78

To: DF

From: DWS

RE: TYPES OF DATA FOR GEO-GIF

- GEOTHERMAL DATA (from GEOTHERM + other)
 - Spring data
 - well data
- Geophysical DATA
 - heat flow studies
 - thermal gradient studies
 - earthquake data
 - microseismic data
 - other
- Geochemical DATA
 - geochemical thermometry (pre-existing)
 - water chemistry (pre-existing)
 - geochem studies possible at the lab
 - other
- Geologic DATA
 - location of spring deposits
 - location of igneous r
 - age: young vs. old
 - type: volcanic vs. intrusive
 - comp: silicic vs. mafic
 - fault studies
 - lineament studies
 - economic geology: existence of:
 - Hg, As, S, U, (Mo, F, Au, Ag) prospects / deposits
 - PI File DATA
 - other geology
 - core library studies

general geology - rock types, structure etc.

- Land Status Data
owner/leasee etc.
- Land Use/Restriction Data
- Exploration History

With: Dennis

12/06/78

RE: SUGGESTIONS FOR GEO-GIF FILING SYSTEM

- Lat / Long
world classification - but meaningless to average Joe
- * - STATE / 2° sheet
what happens when go metric
- Make computer system compatible w/ geothem
can then easily cross-reference
- Cross reference w/ geographic / geologic province

Questions

Budget

Map Filing system - folded / flat etc.

Conclusion

STATE / County system best

would interface well w/ geothem

12/06/78

With: Duncan

Re: ORGANIZATION OF DATA BASE

- Change name from "Central File" to:
Geothermal-Geoscience INFORMATION File (Geo-GIF)
- Geographic Priorities (for the time being)
 - I. SALMON HOT SPRINGS / LAVA H.S.
see how much + what kinds of info available
i.e. test case for type + amount of data to expect
 - II. Roosevelt KGRA
test case for best filing method

- ^{Sources} Types of Info Available for Roosevelt:
 - ESL reports (Nielson + McKinney)
 - environmental reports - ESL + other
 - Dept. reports (theses)
 - USGS open file
 - DOE - OR papers?
 - exploration history
 - results from core library studies?
 - State survey publs?

- Sources of Info Applicable to Geo-GIF
 - ESL reports
including selected ESL personal files
 - available geologic maps
 - unpublished USGS reports + maps (open-file etc.)

- Geotherm File
- aerial photography + satellite imagery
- Department reports (theses/dissertations)
- State publications
- DOE reports (OR reports etc.)
- Other govt publications:
 - Forest Service
 - BLM
 - Bureau Rec
 - Bureau Mines
 - BIA
 - Army Corp
 } environmental studies
land use studies + historical
- Land Status Maps / Reports
 - owner/leasee
 - area use/restrictions
- List of all public meetings + hearings
i.e. environmental + land use
- Core library
 - results of user studies
(is this public or proprietary info?)
- Utility Company reports?
- List of Appropriate State Agencies to contact for further info

- Prepare list of:
Sources of Info (as above)
Types of Info

- Solicit Filing Suggestions

12/09/78

TO: PMW

FROM: DWS + DF

RE: SOURCES OF INFORMATION FOR GIF

- ESL
 - reports + maps
 - personal files (selected portions)
 - core library study results (proprietary or public info???)
- DEPARTMENT
 - DOE + other papers
 - theses, dissertations
- GEOTHERM File
- Unpublished USGS reports + maps (open-file)
- Other available geologic maps + reports
- DOE reports (from NTIS)
 - OR reports, etc.
- STATE publications - formal and informal progress reports
 - State Surveys
 - Water Departments
 - State-Coupled Organizations
 - other
- ENVIRONMENTAL REPORTS (state + national)
 - EPA
 - USGS
 - other
- Other government publications
 - Forest Service
 - BLM

Bureau Rec

Bureau Mines

BIA

Military (Army Corps of Engineers, USAF, etc.)

- Aerial photography + satellite imagery
- NOAA Maps + reports
- Beeky Spring File
- Utility company reports
- Energy + Mineral company reports
- Local Sources

minutes of pertinent public meetings + hearings

local water boards

other

- Land STATUS MAPS
- PI File data
- List of appropriate state agencies for follow-up work
- Gossip

work in progress, etc.

TO: PMW

12/08/78

FROM: DWS & DF

RE: TYPES OF INFORMATION FOR GIF

- GEOTHERMAL DATA (from GEOTHERM + other)
 - spring data
 - well data
- Geophysical DATA
 - heat flow studies
 - thermal gradient studies
 - Seismic studies
 - active
 - passive
 - electrical studies
 - magnetic studies
 - airborne
 - ground
 - gravity studies
 - airborne
 - ground
 - AMT studies
 - Other
- Geochemical DATA
 - geochemical thermometry
 - water chemistry
 - rock chemistry
 - radon studies
 - mercury studies
 - additional studies feasible at ESL
 - other

- GEOLOGIC DATA

igneous geology studies

age: young vs. old

type: volcanic vs. intrusive

composition: silice vs. mafic

evolution

location of + studies about spring deposits
fault studies

lineament studies

economic geology - existence of:

Hg, S prospects/deposits

As, U, Mo, F, Au, Ag etc. prospects/deposits

structural history of area

PI file data

core library studies

other

- LAND STATUS DATA

owner/leasee, etc.

- LAND USE / RESTRICTION DATA

- EXPLORATION + DEVELOPMENT HISTORY

December 12, 1978

MEMORANDUM

TO: Mike Wright

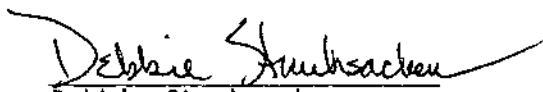
FROM: Debbie Struhsacker and Duncan Foley


SUBJECT: Types of Information for GIF

- Geothermal Data (from GEOTHERM and other)
 - spring data
 - well data
- Geophysical Data
 - heat flow studies
 - thermal gradient studies
 - seismic studies
 - active
 - passive
 - electrical studies
 - magnetic studies
 - airborne
 - ground
 - gravity studies
 - airborne
 - ground
 - AMT studies
 - other
- Geochemical Data
 - geochemical thermometry
 - water chemistry
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 - age: young vs. old
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location of and studies about spring deposits
fault studies
lineament studies
economic geology-existence of:
 Hg, S prospects/deposits
 (As, U, Mo, F, Au, Ag, etc. prospects/deposits)
structural history of area
PI file data
core library studies
other

- Land Status Data
 owner/leasee, etc.
- Land Use/Restriction Data
- Exploration and Development History


Debbie Struhsacker


Duncan Foley

DWS,DF/smk

December 12, 1978

MEMORANDUM

TO: Mike Wright

FROM: Debbie Struhsacker and Duncan Foley

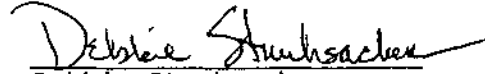
SUBJECT: Sources of Information for GIF

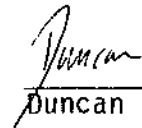
- ESL
 - reports and maps
 - personal files (selected portions)
 - core library study results (proprietary or public info???)
- Department
 - DOE and other papers
 - theses, dissertations
- GEOTHERM File
- Unpublished USGS reports and maps (open-file)
- Other available geologic maps and reports
- DOE reports (from NTIS)
 - OR reports, etc.
- State publications - formal and informal progress reports
 - State Surveys
 - Water Departments
 - State-Coupled Organizations
 - Other
- Environmental Reports (state and national)
 - EPA
 - USGS
 - Other
- Other government publications
 - Forest Service
 - BLM
 - Bureau Rec
 - USBM

BIA

Military (Army Corps of Engineers, USAF, etc.)

- Aerial photography and satellite imagery
- NOAA Maps and reports
- Berry Spring File
- Utility company reports
- Energy and mineral company reports
- Local Sources
 - Minutes of pertinent public meetings and hearings
 - Local water boards
 - Other
- Land Status Maps
- PI File data
- List of appropriate state agencies for follow-up work
- Gossip
 - work in progress, etc.


Debbie Struhsacker


Duncan Foley

DWS,DF/smk

12/13/78

W/EMS

RE: Cross Referencing for GIF

Two suggestions based on system in Exxon (Missoula) office:

- 1) Cross reference w/ quad
- * 2) Cross reference w/ AMS sheet
i.e. list all other springs/wells (thermal) included in that AMS map

#2 has the advantage that there is a pre-existing NOAA/Berry map of spring (thermal) localities on an AMS grid

MANAGEMENT OF DATA BASE

12/14/78

- How does data base tie into:

- State-Coupled Program
- User Assistance Program
- Industry Coupled Program
- PON
- other

} Designate 1 person per program to funnel data to Data Base?
STRINGBELLOW??

flow of info from these programs into Data Base

- Prioritization

- High T^o - in preparation for New Mexico? ←
- High T^o - as pursued by Industry Coupled
- Low-Mod T^o -

as info flows in from State-Coupled program
as studies requested by User Asst Program, PON etc.
per predetermined list of geographic priority

- Time Frame

High T^o -
continual flow of data

Low T^o - Mod T^o

continual flow from State work

"crisis basis" from User Assistance / PON?

- Time Allotment for DWS

State Coupled Program vs. User Assistance?

- Time Goals:

Accomplish how much by when?

current w/ Industry Coupled by FY 80?

as much other as possible?

1) requests 2) pre-determined schedule after requests filled

- FUNDING

How much

From what program (separately funded)

STRINGFELLOW'S FUNCTION

- Logistics

Files

where

how

Cross-referencing

Map storage

Proprietary vs. Public INFO

- SOLICITATION^{OF INFO} FROM STATE-COUPLED PEOPLE

w/ PMW + HR

12/14/78

RE: Priority + Management FOR DATA BASE

- 1st Priority: Industry Coupled Program
- 2nd " : User Asst Requests as they occur
- 3rd " : STATE-COUPLED Program
get to know state people
help w/ their map compilation
solicit data input from STATES
- 4th " : Areas of geothermal potential around cities

DOROTHY THOMPSON: FORMER KENNECOTT Librarian
Hope to retain her on consulting basis to aid
in setting up data base files

Set up A LIASON in every project (Industry + STATE Coupled, User Asst., Gechem Support etc.) to directly + regularly funnel data to me

Talk to HOWARD RE: Types / AMOUNT OF DATA in Industry Coupled program

12/15/78

TO: MIKE

FROM: DEBBIE

RE: PRIORITIES FOR DATA BASE AS DISCUSSED ON 12/14/78

I. 1st PRIORITY: COMPILE + ORGANIZE DATA FROM INDUSTRY COUPLED PROGRAM

2ND PRIORITY: FULFILL USER ASSISTANCE REQUESTS AS THEY ARISE

3RD PRIORITY: COMPILE + ORGANIZE DATA FROM STATE COUPLED PROGRAM
GET TO KNOW STATE PEOPLE → SOLICIT DATA FROM THEM

4TH PRIORITY: COMPILE LIST OF COLOCATIONS OF POPULATION
CENTERS & SOURCES OF POTENTIAL GEOTHERMAL ENERGY

II. ESTABLISH A LIASON W/IN EVERY PROJECT WHO WILL FUNNEL
DATA INTO DATA BASE

III. HOPEFULLY RETAIN DOROTHY THOMPSON AS A CONSULTANT
TO AID IN SETTING UP DATA BASE FILES

12/15/78

TO: MIKE

FROM: DEBBIE

RE: POSSIBLE TIME FRAME FOR COMPILATION OF DATA BASE INFO
(BASED ON TODAY'S CONVERSATION w/ HOWARD)

- As of 1/1/79 ±, Howard will be ready for me to remove most of the UTAH data from his office, and start placing it in our data base files.
- However, it may be best to wait awhile until:
 - a) we design a filing system (w/ DOROTHY THOMPSON'S AID)
 - b) we move into the new building??
- My gut reaction is that once we get the filing system designed, it will take about a month(?) to file the UTAH DATA
- It might be best to complete the filing work on the UTAH DATA before COMMENCING w/ NEVADA.
(THAT WAY WE CAN WORK THE BUGS OUT OF THE SYSTEM WITHOUT INVOLVING (LOSING??) DATA THAT PEOPLE ARE ACTIVELY USING).
- MERRY XMAS. See you on 12/27

12/15/78

WITH: HOWARD ROSS

RE: DATA FROM INDUSTRY COUPLED PROGRAM FOR DATA BASE

- As of & 1/1/79 begin to compile Howard's data on JTAG
may want to wait for new building and/or
Dorothy Thompkins' input
- * - Should cross reference information w/ open-file release
date and/or release number
- May WANT TO ESTABLISH SEPARATE FILE FOR DATA
THAT HAS NOT YET BEEN OPEN-FILED