

The Dream

Me
+ PC
+ RRC Data
= Geothermal \$\$\$



The Reality

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03 WL-OIL-NET-GOR          PIC S9(5) COMP-3  VALUE ZEROS.95
03 WL-OIL-SPECIAL-ALLOW-CODE PIC 9(1)          VALUE ZEROS.98
  88 WL-OIL-SPECIAL-ALLOW-NONE VALUE ZEROS.
  88 WL-OIL-SPECIAL-SUBJ-TO-FACTOR          VALUE 1.
  88 WL-OIL-SPECIAL-ALLOW-DONT-CHG        VALUE 2.
  88 WL-OIL-SPECIAL-TOP-ALLOW-PROR       VALUE 3.
  88 WL-OIL-SPECIAL-TOP-ALLOW-XMPT       VALUE 4.
03 WL-OIL-SPECIAL-ALLOW-AMT  PIC S9(4) COMP-3  VALUE ZEROS.99
03 WL-OIL-14B2-CODE          PIC X(1)          VALUE ZEROS.102
  88 WL-OIL-14B2-DOES-NOT-EXIST          VALUE ZEROS.
  88 WL-OIL-14B2-EXTENSION-EXISTS        VALUE '1'.
  88 WL-OIL-14B2-EXTENSION-DENIED        VALUE '4'.
  88 WL-OIL-14B2-EXTENSION-H15-VIOL      VALUE '5'.
03 WL-OIL-14B2-DATE.
  05 WL-OIL-14B2-YEAR          PIC 9(4)          VALUE ZEROS.103
  05 WL-OIL-14B2-MONTH        PIC 9(2)          VALUE ZEROS.107
03 WL-OIL-WATER-PRODUCTION  PIC S9(4) COMP-3  VALUE ZEROS.109
03 WL-OIL-FROZEN-POTENTIAL  PIC S9(5) COMP-3  VALUE ZEROS.112
03 WL-OIL-PRODUCING-METHOD-RPT PIC X(1)      VALUE ZEROS. 115
  88 WL-OIL-VACUUM-RPT          VALUE 'V'.
  88 WL-OIL-STEAM-INJECT-RPT    VALUE 'S'.
  88 WL-OIL-SEC-HEAT-INJECT-RPT VALUE 'H'.
  88 WL-OIL-FLOWING-RPT        VALUE 'F'.
  88 WL-OIL-PUMPING-RPT        VALUE 'P'.
  88 WL-OIL-GAS-LIFT-RPT       VALUE 'G'.
  88 WL-OIL-SWAB-RPT           VALUE 'B'.
  88 WL-OIL-CARBON-DIOXIDE-RPT VALUE 'C'.
  88 WL-OIL-OTHER-PROD-METH-RPT VALUE 'O'.
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WATER PRODUCTION (WL-OIL-WATER-PRODUCTION)

This data item indicates the amount of water in barrels produced with oil during a W-2 or W-10 test.





DON'T PANIC

Q & A – Part 1

What's Available?

30 different mainframe data sets
5 layers of Digital Map Data

What Data Do I Need?

Start with well locations, TD, temp,
water, hole/casing size, pressure

So How Do I Decide What to Buy?

Educated guess based on the name of the data set
Read the docs: ~350 pages
Come to terms with 100+ record types, 2000+ data items

How Do I Get It?

Email the RRC Order Line (pay by CC over phone)
Wait for "It's Ready" email, then download (ftp)



Q & A – Part 2

What Did I Get?

A bunch of huge files that you can't read on a PC

So How the **** Do I Use It?

Write a program to decode it
and load it into a database

Will I Need a Bigger Computer?

Probably.

What Data is Actually There?

Good Question. Take a Look. Weep.
We found about 10% usable data.

How Accurate is the Data?

Look again. And again. Is 90,000 PSI reasonable? Or 910° F?

How Do I Extract What I Want?

Write another program.



Is There An Alternative ?

Can I Buy It Done?

With all the data you need - nope.
Some data is available – figure around \$12/well

So, What Do I Do?

Do it yourself (like we did)
It'll take around 20,000 lines of 'C' and 1,000 lines of SQL

Hire someone else to do it (\$\$\$)

Forget It (and Get A Life)



The Vital Link

Our 'hidden' web site:

[http:// www . efserv . com / rrc](http://www.efserv.com/rrc)

Use it to find links to all the important RRC web pages, and also some basic search facilities for looking at RRC mainframe documentation.

Some links are password-protected.

