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 Jim Faillds - Years back, early '70's, after Grad School
 with Chris Henry, et al., at U.Tx-Austin and Think Tank
 days at Stanford, I cobbled together a Tectonic
 Map of western North America with FUGRO, Inter-
 national, in the S.F. Bay Area, CA, looking to
 present a "REAL TIME" solution of the region's
 "splintering microplates and microplate slivers"
 (my term; Bill Dickinson, et al.'s "tectonic blocks"; Ben
 Peacock's "tectonic domains", etc.). Across the Great
 Basin, I touched base with John "Jack" Walker and



As the State Geologist and Director of Minerals & Geology, Jim Faillds was charged by the State of Minnesota to do research on the tectonics across the Great Basin, Tony Faillds

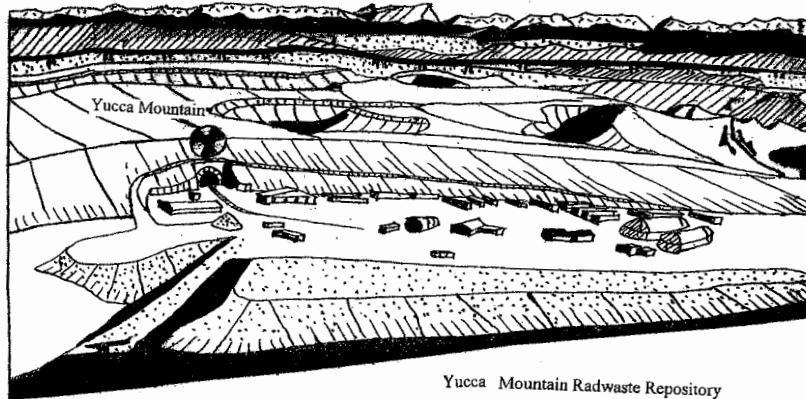
The active geotectonic setting of Western North America is driven largely by the Pacific Seafloor Plate's northwestward sideswipe collision with the continent.

Tony Faillds
 Tectonic Map of North America
 after
 Bill Munkelberger
 and Phil King

Phil King at the U.S.G.S. - Menlo Park, as well as
 Bob Compton, U.S.G. Ernst and Ernie Rich at Stanford,
 Don Anderson, etc., etc., were the source of "all things
 seismic" at Cal Tech's
 Seismological Labs,
 Don's "multi-block"
 Scientific American
 interpretation of
 the Greater San
 Andreas Fault System
 confusions were also
 strongly U.T.-Austin
 Professor Will Reid
 and John Searle
 presented one
 access to first
 generation
 Long shot history
 out of messy land
 will seismics be a
 short continuing part
 of CA and N.R.
 and could also be used in
 report on the Kings Canyon
 Lineament (across the Great Valley, Walker Lane
 and Sierra Nevada)
 First International Conference of the
 Basement Tectonics in Salt Lake City, U.T., 1973.
 To keep things in "REAL TIME" perspective, I
 visualized things then... and still, EVERMORE, today...
 as a WORK IN PROGRESS, ongoing evolution being
 the RESULT of the PROCE. To me, SCIENCE is always
 life science as well as a physical science, always
 in the process of undergoing change and transform
 evolution, the earth's crust shifting and
 warping under stress as imposed by mass like
 mantle currents and upwellings. As such, North

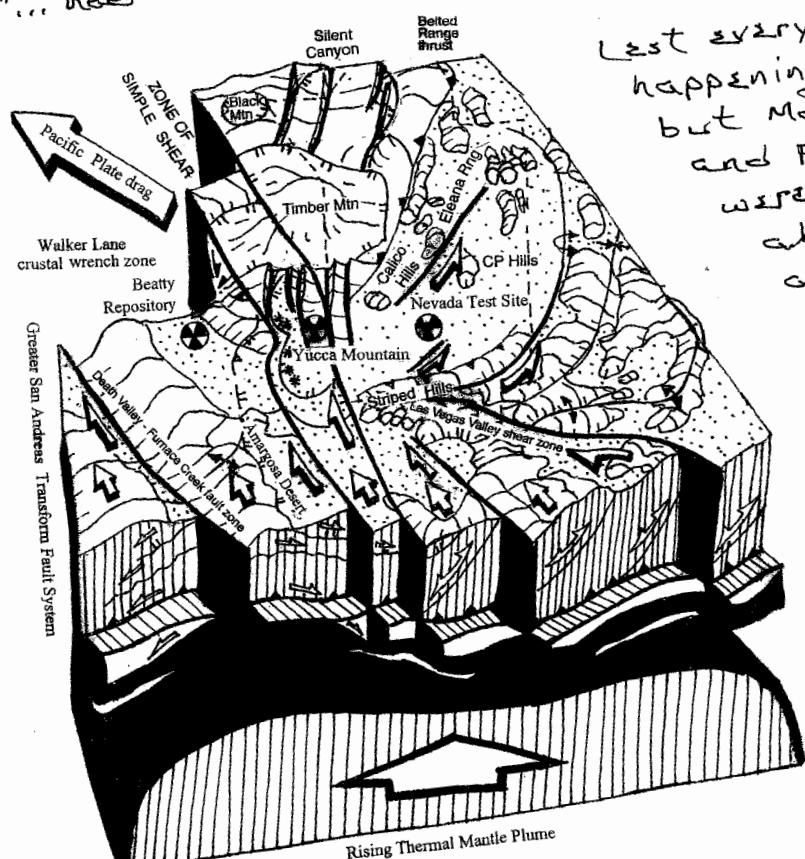
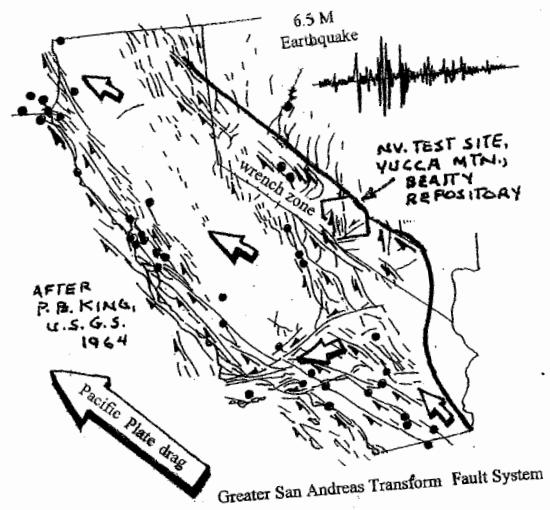
America's accreted, western margin is being sheared off by the Pacific Plate's northwestward side swipe collision with the continent even as I write this ... and as you read it. (See John McPhee's Suspect Terrain for a similar, GSA.-Awarded interpretation.) The U.S.S. Sierra Nevada-Great Valley Microplate is battle-slipping northwestward accordingly, stretching and splintering the neck out of Nevada's southwest border along Jack's "Walker Lane", while its prow tips slowly westward towards the Pacific's Mendocino Fracture Zone, leaving a trail of Modoc Plateau volcanic up-chucks in its wake, if not magmas rising along its flanks, too? And small wonder that Nevada's U.S. Senator Harry Reid, et al., took exception w/ having high-level radwaste stored along Walker Lane at the Nevada Test Site - Yucca Mountain Complex with its active faults and recent volcanic necks!

Like the bounding Nevada Test Site, and Beatty Repository, Yucca Mountain is located in an active, crustal wrench zone along the east margin of the Greater San Andreas Transform Fault System.

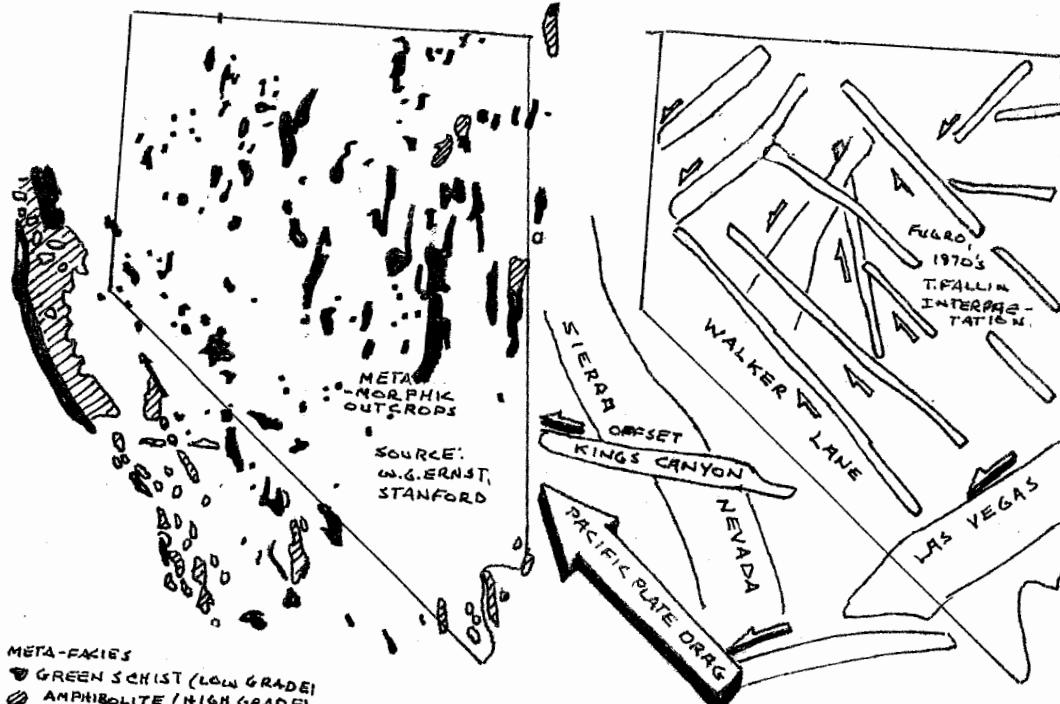


Yucca Mountain Radwaste Repository

I mean - SWEET MERCY!
 The site's in an active
 crustal wrench zone.
 Ma Nature ripping
 the place apart while
 stressing, stretching
 and fracture-faulting
 the rest of Nevada
 at the same time. I
 know Uncle Albert
 Einstein told his
 young niece that we
 "... had to invent time,



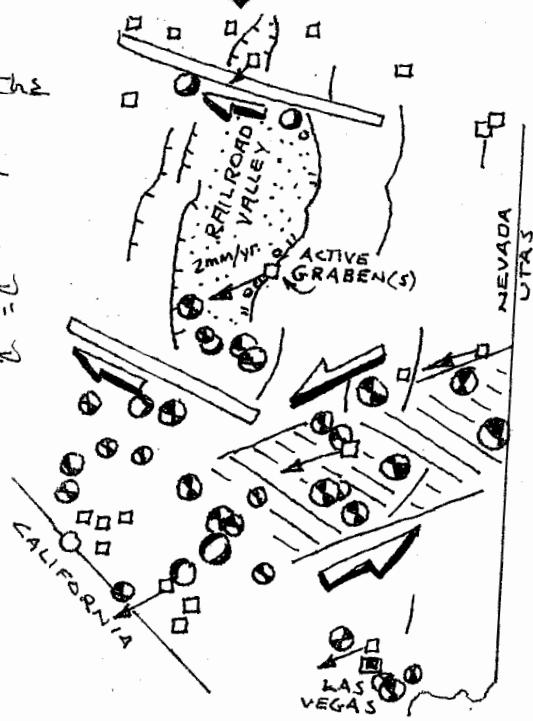
...est everything keep
 happening at once,
 but Ma Nature
 and Plate tectonic
 were already way
 ahead of them
 and not about
 to slow up.
 To friends
 who mapped
 the geology
 around Yucca
 Mountain say
 the place
 is being
 sheared
 like Graham
 crackers in
 a vice.
 As rising
 magmas around
 Mammoth Lake



generate clusters of seismic waves along the flanks of the west-bounding U.S. Sierra Nevada batholith.

And thank goodness not everyone is arrested at the "Look Magazine" level, let alone allowed to impose their DEATH WISH on everyone!

But onward, before I digress. (Too much!) when I got to interpreting Nevada for my "REAL TIME" Tectonic Map of Western N.A., I looked for apparent offsets in the state's

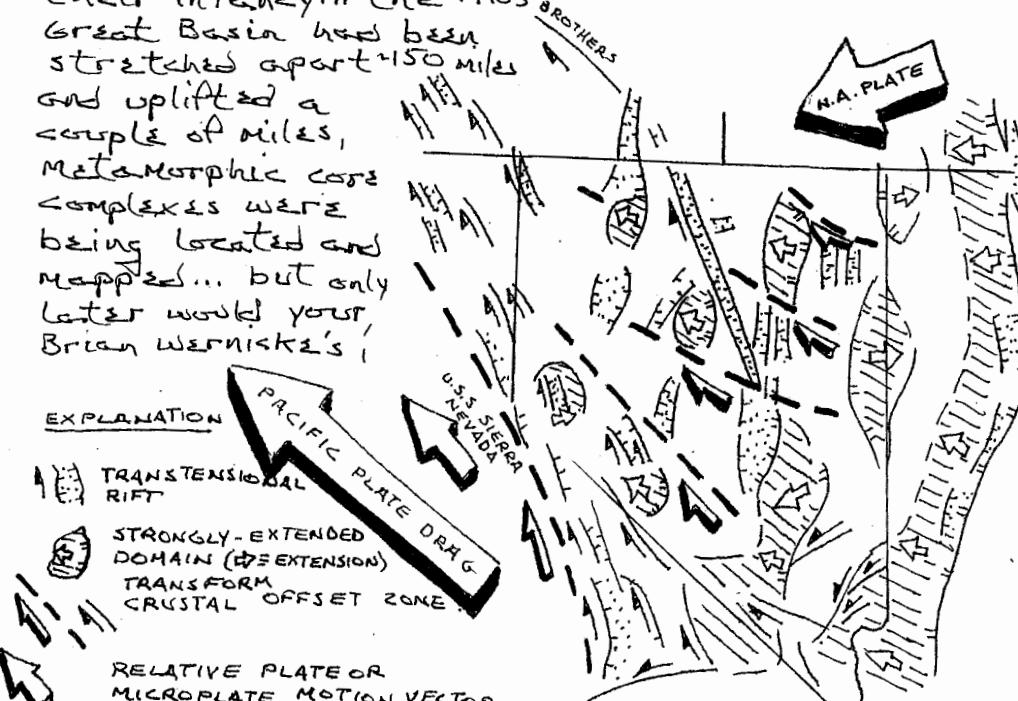
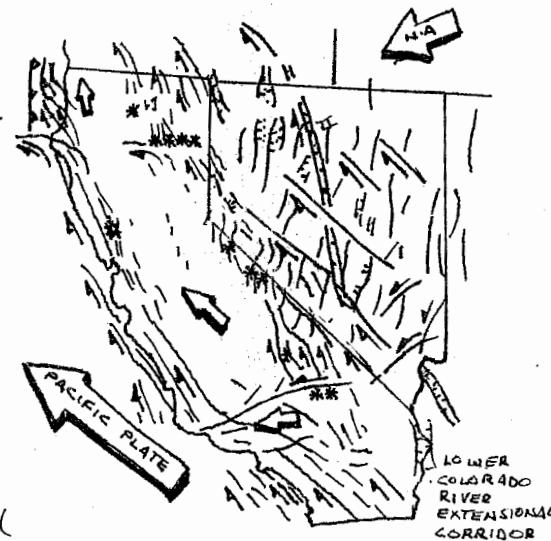


structural grain that might be in agreement with "current" (Read: ~1800 to Present) plate and microplate motions. Right or not, I "saw" lots of what could be interpreted as right - lateral offsets and transtensional rifts that were in close enough agreement w/ the states seismic corridors to make me think they were real.

Concepts in extensional tectonics were still in their infancy... the 1970's

Great Basin had been stretched apart \approx 150 miles

and uplifted a couple of miles, Metamorphic core complexes were being located and mapped... but only later would your Brian Wernicke's,



AFTER FALLIN, J.A., 1974, JANUS PRESS;
AND WERNICKE, B., 1992, G.S.A. DRAG

and numerous other's work add needed details and overall interpretation to some of my own early attempts at interpreting Great Basin tectonics. I liked particularly Brian's adding the effects of resolute parallelism and extension domains with others to the overall sense of things ... and you're reading the effects of crustal torque to explain "zones of compensation" in extensional tectonics, especially

along the Lower Colorado River

Corridor and

Rio Grande Rift.

(Classy works
and insights,
well deserved
of the S.A. taking
nature and adding
another award to
your collection!)

Honest ... and last

complaints make you
suspicious as a crow
justifiably ... I am having
some difficulty swallowing

some of your more recent

interpretations / suggestions / posits /

speculations showing squiggy lines stretching across

Alveda like Nile of ps, cutting across Bob Abrahams

over thrust belts, then some of my own "lines of

distortion", stretching even into Utah and Mormon

country where he only goes because it all

play be it is messy, and contains serious nomenclature

that would be thought in a rut and set in my ways.

And if it is me, if you want to be the first time I have

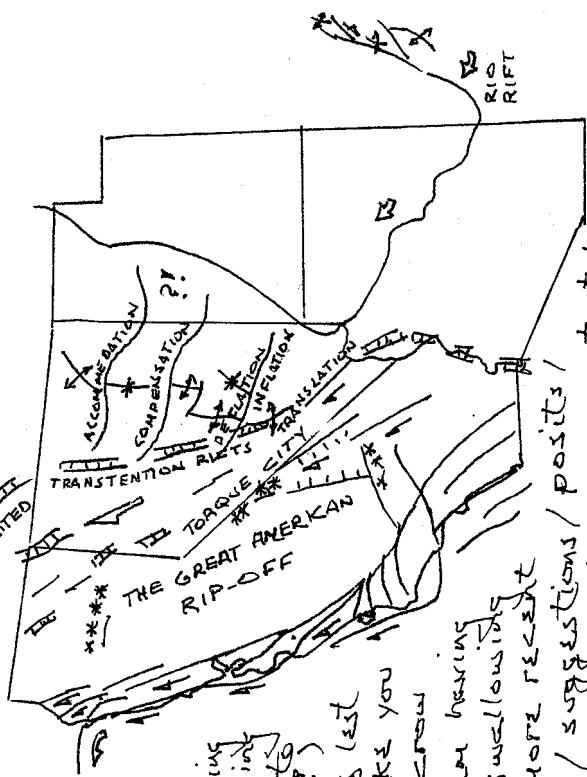
written about something still, looking for "REAL

TIME" solutions for "REAL TIME" solutions, I thought

I'd mention it, nothing ventured, nothing gained!

Season's Greetings & a fulfilling 2015 ... to all our

year end, plus some Real world challenges. A. Tony Fallin



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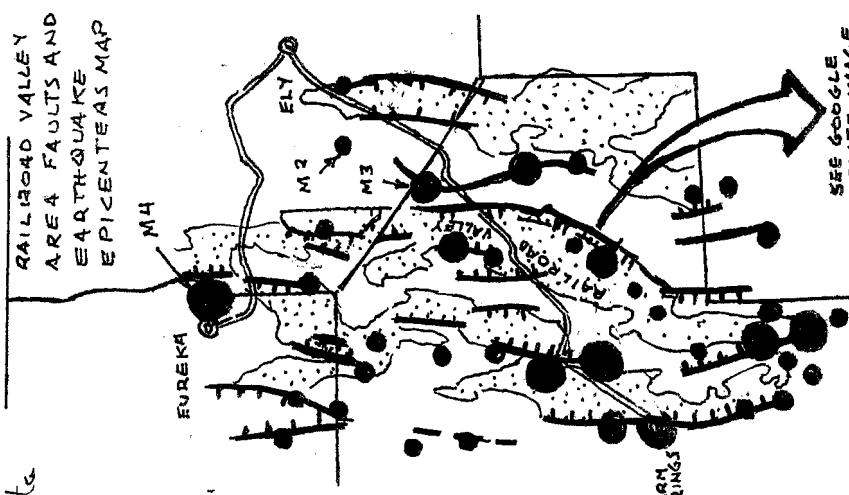
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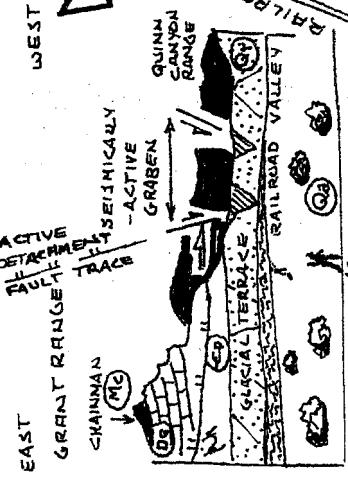
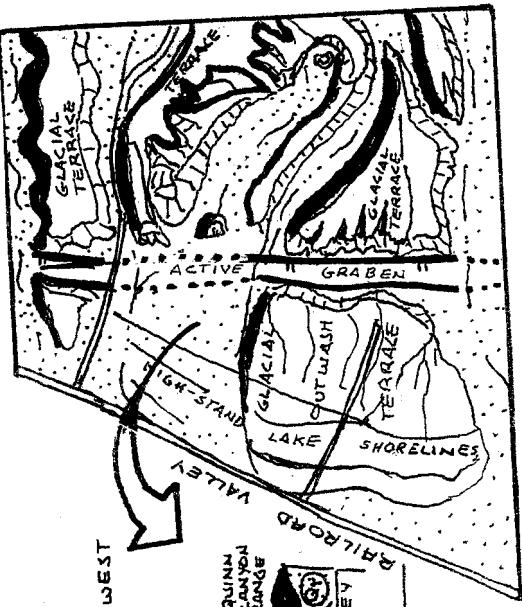
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P.S. The Railroad Valley data has been compiled over the years since I first "saw" its active tectonism. Kitchean as a seismologist, assessing mineral resources across the west with USGS - US Geological Survey - USGS Studies Group out of the Denver Federal Center. with the FGRO "Death Valley" Utilities (PG&E, SoCal Edison, AZ Pub. Power Wash. Pub. Power & Supply) were playing the bill for state assessments after reports about nuc. Power Plants. My last visit to Railroad Valley was in 1982, but also included a visit to its neighbor front.

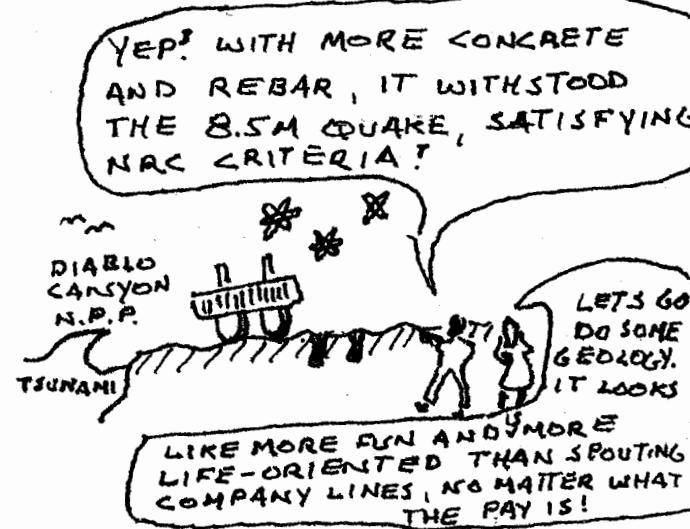


SEE GOOGLE SATELLITE IMAGE



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Boulder, CO 80306

ONE GEOLOGIST TO ANOTHER...
(SOME NEVER LEARN...)



LAS VEGAS
**NEVADA, FEDS TO STUDY
NUKE-WASTE BURIAL**

Nevada and the federal Energy Department announced Tuesday they've formalized a panel to study contentious issues including whether radioactive material from a World War II-era plant in Tennessee will be buried at a former nuclear weapons proving ground north of Las Vegas.

Gov. Brian Sandoval and Energy Secretary Ernest Moniz announced that more than a year of negotiations yielded a signed agreement to continue "senior-level" talks by a group of state and federal employees dubbed the Nevada National Security Site Working Group.

SEASON'S
GRITS!

To: ALLISON MACFARLANE,
CHAIRWOMAN
NUCLEAR REGULATORY
COMMISSION

M.S. 016-G-4
WASHINGTON, D.C.

20555-0001

