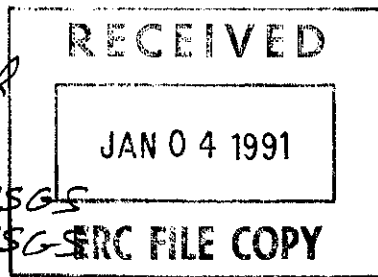


Meeting - injection well 5/8/86

Jim Valentini
Tony Matulis
Ken
Jerry Severs
Frank Ward
me

Dennis Chiriac
Bob Nebele
John Johnson
Larry Mann, USGS
Cassie Lewis, USGS



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Dennis

Injections : 1000-1400 gpm.

Larry - ~ 110 ft filled in.
(2/9/84 - pond)

Frank : films in '84 - ~ 20-30 ft of silt, up to 50.

Larry - positive pressure field gravel etc., in place when used full time. Part 'lime' - mixing makes it work - no positive pressure. Thinks much of stuff inside well = from gravel pack up above.

Frank - looks like fines.

me - extent of gravel pack?
Larry - film = missing. Subaqua?

Frank Need to drill out well? Or can slurry it out?

Larry - if find, could bail it out. May have to drill, pump it out. If film gravel pack, can't probably. May be semi-consolidated if agitated out for a while - needs agitation. Could be pulled out.

Must inject or pump water. If can take water, will yield water at same rate - might be a bit different if water comes up between hole & liner - unsat. zone.

Thinks there's no bridge there - material not brought in to cut. Material - from red bed (only one - at bottom of hole) or gravel pack.

Frank - after liner = put in - wouldn't take water. Set charges - then shot it. Camera shows liner not deployed. 30-06 shells - 2 or 3 times. Used bentonite. Silt pumped out before liner = put in.

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Where do we go from here?

Held up by DOE.

WINCO mgmt wants to cap well, put in retention basin : 2-4 million.

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Need well screen & grouting.

Frank - can take out liner but not casing.

Burney - pull out liner, drill out casing.

Need to refurbish well if it will be used.

Down time - 30-45 days for actual work.

Before - well closed off - 709 filled up ~ 1 ft below pumps, over monitors and everything. Stabilized then - flow dam (closing off well) & everything.

Frank - our casing is destroyed in parts - gas.
Larry - avenue for gravel to come in thru gas.

Frank: '50 - '53.

Started out as 36" borehole - telescoped.

12" casing - only one can see. All others = buried under concrete slab.

Pump test (my suggestion).

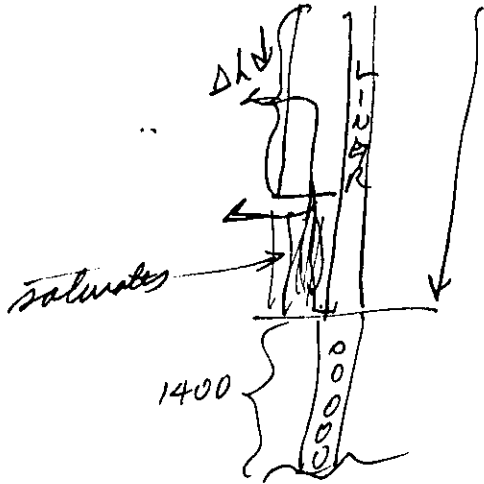
DOE has to make decision now.

Dennis - what should shift people do now?
Special prayers?

Larry Worst case estimate, what well could take?
Could have 450 ft of lead not just 150.
But could get failure of lining - lots of pressure 450 ft of lead - only to force water thru thinner steel.
Liner = good - 1-1 3/4 in thick. Casing = bad - might go before liner - make it worse!
Vals & force in many directions

During test - might have to go on for weeks.

Can force thousands of gal/min thru 48 2" holes
If casing goes, water goes up & out - 4 Ah ↓
Then velocity thru holes ↓



Also: ~ 4 perched water bodies in area
Barney.

Larry - says well could fail any time.

17" casing: holds ~ 7 gal/ft.

~ 3000 gal storage in lines

8000 gal in Reservoir itself

5 min of water - all Larry's bank on!

No way it could handle 1×10^6 gal/day!

Whenever we stop injection, surges - gets worse.

Jim: Need to evaluate what water can be shut off in emergency

in 1 hr, could cut flow to 600 gal.

Dennis - what can we do in 8 min?

Dennis - must have 604 manned full time.

Pumps - ~ 8 of grade equal elevation

Ponds - 12 but ground slopes up around them
No way to gravity flow to pond.

Characterization of basalt w/ of plant?
any, provided me to Jim some time ago

Who has lead?

Jim's group - Lead on hydrostatic properties of plant
Ken used mostly reports at DEC.

Requisite ~~part~~ well? Doubtful - if so Jerry Sutor will
be in charge of the project.

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