FA-3 offsite

ENVIRONMENTAL RESTORATION PROJECT

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Number of Pages (excluding cover): 2

Comments: Revised R-16 completion with Geology.

4137

Los Alamos NATIONAL LABORATORY

UNCLASSIFIED

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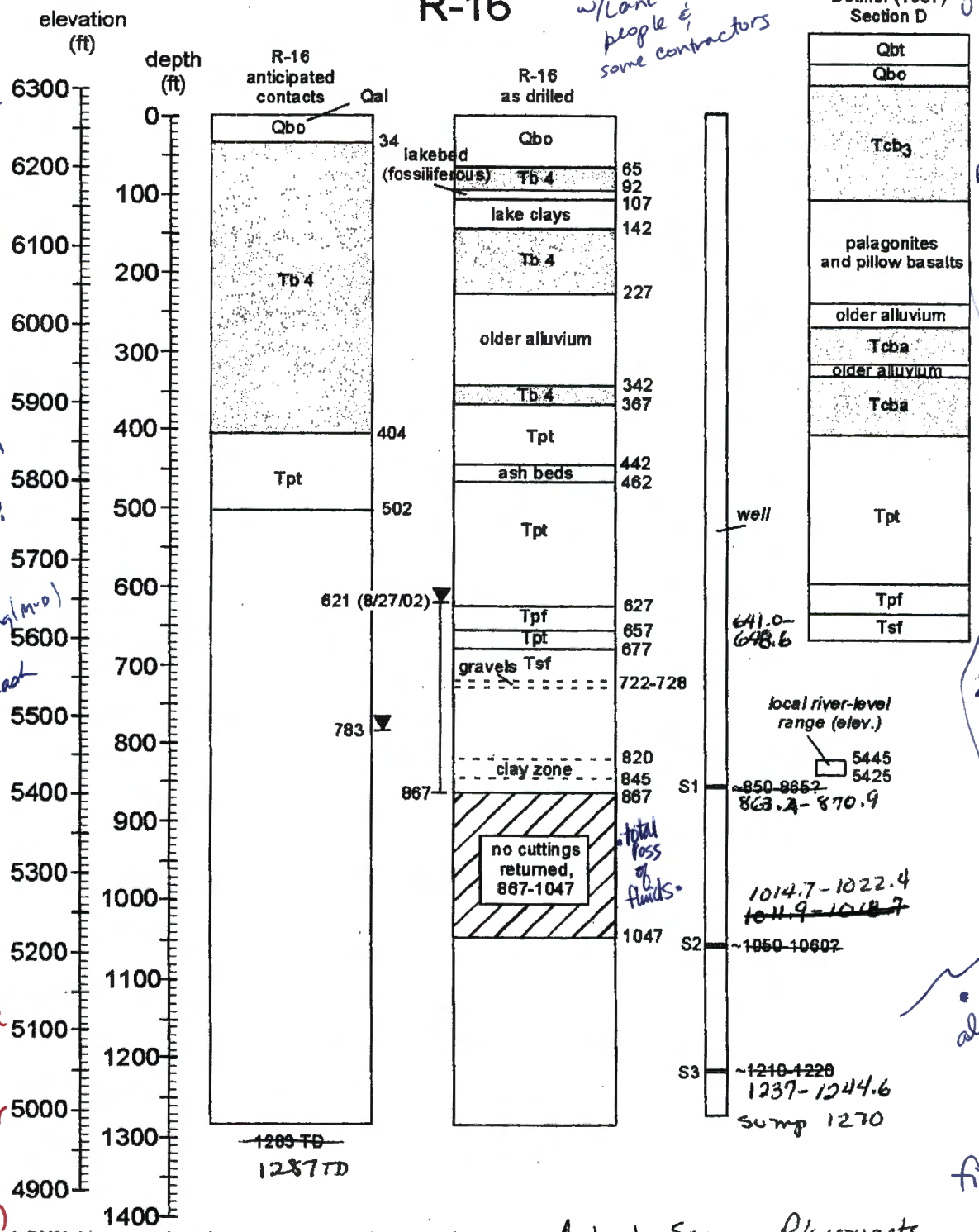
whitacre •665-5042

working on development protocol & will send it to us - next week

Schafer w/Lanl people & some contractors

nearby outcrop

R-16



R16 overfilled sand to 20' above bottom filter pack

9/5 as per design, rest of well going in ok

design well by mon?

R20 SWL 782 @ 953 easy drilling (mud) basalt/cinder cone ash

R23 down void 90' - lava tube rig down scrubbers etc.

Rig: R16→R23

casing advance to 180'

air hammer at 230' now (9/11)

using dispersant

9/4: 10 Am

Airlift

pump water temp casing to 728

blow air up

used dispersant water level came down some ~100'

putting in 20-40 sandpack around lowest screen caked material sluffing into hole

• 20-40 also min. 5' above + below

• 9-12 or 12-20 sand

filter 10' above & below (coarser) b/c pumping

Actual Screen Placements Shown in Rev.

• pumping sand + bentonite grout in

• chose screen locations Based on porosity & density logs

• casing & screens installed now / problems getting seals + filter packs in

• filter cake around well bore