

**Kulis, Jerzy, NMENV**

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**From:** Kulis, Jerzy, NMENV  
**Sent:** Thursday, June 16, 2011 4:11 PM  
**To:** 'Danny Katzman'; 'broxton@lanl.gov'; 'wjrice@lanl.gov'  
**Cc:** Cobrain, Dave, NMENV; Dale, Michael, NMENV  
**Subject:** TA-54 geologic crosssection map  
**Attachments:** TA-54 transect map 6-16-11.pdf

Danny,

I am sending you a TA-54 map with recommended locations for geologic cross-sections (thick double lines). These locations were selected based on the proximity (within about 500 ft) to the maximum number of wells and to represent geology either along groundwater flow or in the direction approximately perpendicular to it.

For MDA H:

E-E' (required by NMED response letter to CME) includes wells R-51, R-52 (projected), R-37, and R-34  
J-J' or J ALT-J'ALT – two alternatives to choose from. J-J' includes wells PM-2 (projected), R-40/R-40i, SHB-4 (projected), R-52, and CDBO-7 (projected). JALT-J'ALT includes only PM-2 (projected), R-40/R-40i, and R-37 but will also include the future MDA H well (between R-40 and R-37).

For MDA-L:

I-I' includes R-20, R-54, R-53 (projected), R-56 (projected), and R-21  
H-H' (included in CME for MDA H and G) or HALT-H'ALT – two alternatives to choose from. H-H' includes R-32, R-56 (projected), R-21 (projected), and R-38. HALT-H'ALT includes R-32, R-56, and R-53.

For MDA-G:

F-F' (required by NMED response letter to CME) includes R-32, R-57, R-22 (projected), and R-55/R-55i  
G-G' (close to the transect included in CME for MDA H and G) includes R-39, R-22 (projected), R-57, and R-41. It will also include the future MDA G well.

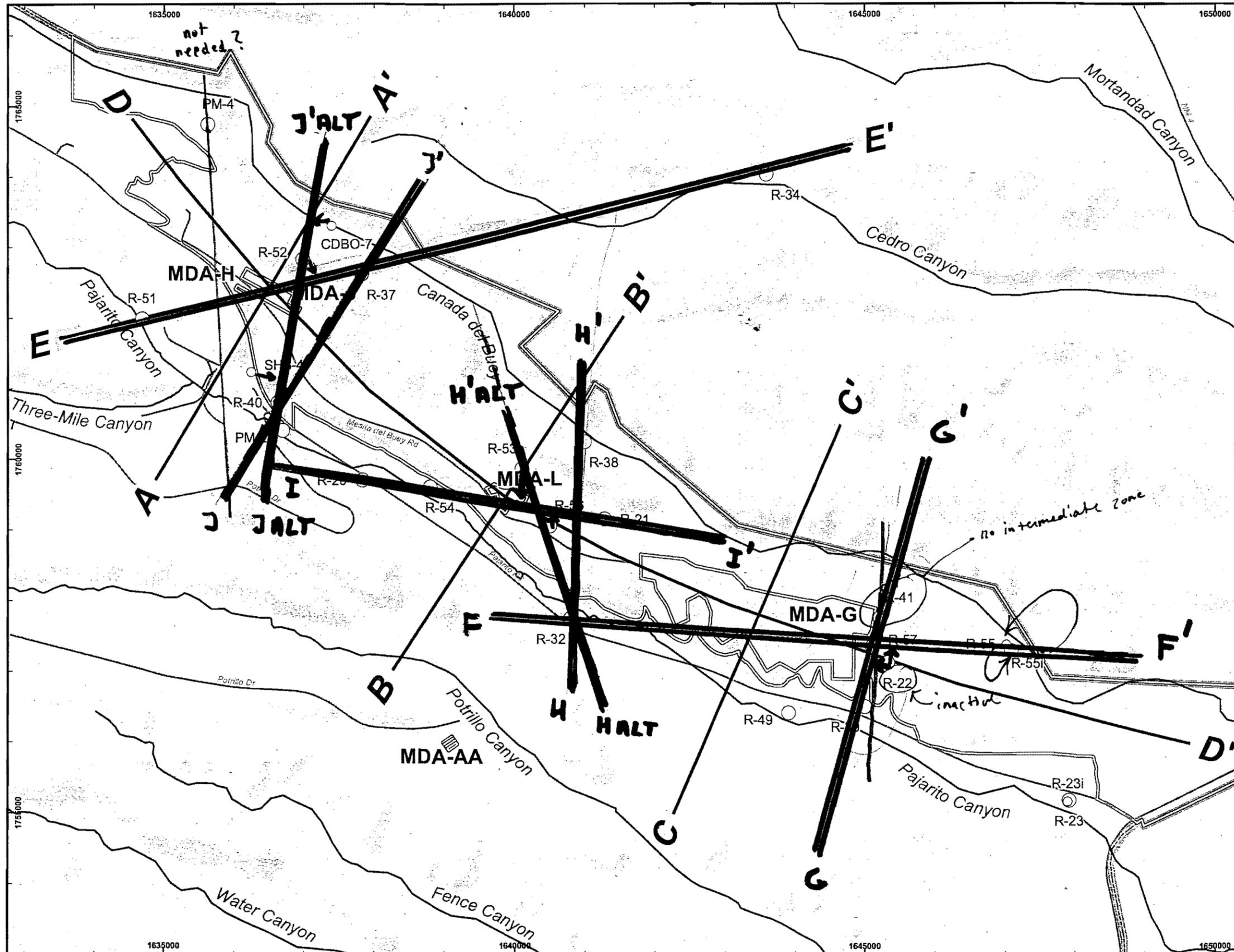
You may add additional transects (for examples, C-C' for MDA G, or D-D') and/or extend the transects recommended in this e-mail, if desired.

Please let me know if you have any questions.

Thanks,

Jerzy Kulis  
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**Legend**

- Laboratory Boundary
- TA-54 Boundary
- MDA Boundary
- Roads
- Drainage
- Transect Lines
- Intermediate Well
- Regional Well

*Handwritten notes:*

- PM-4  $\Delta$  color? Production well
- PM-2  $\Delta$  color; inactive Production well
- Dual-screened well intermediate regional
- Dual-screened Regional well
- intermediate well
- R-40  $\Delta$  color due to soil dry? missing from map

Note: Alluvial wells are not shown.

NM State Plane Central, NAD83, feet

0 1,000 2,000 3,000  
Feet  
1:17,000

**TA-54 Transect Location Map**

Los Alamos National Laboratory  
Los Alamos, NM

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~~required in MD letters existing in CTR reports~~