

1) Data Communication and Sharing

The group indicated that they had no concerns or outstanding questions to be resolved among research team members.

As for the Project Partners and Advisory Board, Jessica Moore indicated that John Bocan will be sending out the listserv login information on Monday, November 14. Partners and Board members will have read-only access to the project's website, and it was decided that because of potentially confidential information that the research team members may to use and share for interpretive work, the Partners and Board members will not be provided access to the ASH ftp site itself.

Kris Carter noted that Battelle reacted favorably to the brief introductory slide set she shared at last week's MRCSP meeting in Columbus, OH, and Battelle offered any technical data and/or project support that might benefit us.

2) Master PETRA Project

ODGS is having some ftp access issues right now in the wake of some software/firewall updates on their end. ODGS asked each of the states for an update on the status of their data compilation, so that it can be ready to download these materials and get mapping. Pennsylvania has completed two of its six counties (Greene and Washington), and may have two more completed within the next week. Gary Daft continues to work in the southern portion of its state, and Jessica Moore mentioned that WVGES has to be careful when selecting digital log files for this project (because some logs are still confidential in status). Along these same lines, Mohammad Fakhari indicated that Ohio's storage fields/well data are confidential, and that these need to be kept out of the public's reach. Jessica Moore suggested that OH provide Michele Cooney with a list of confidential API numbers so that she can filter those out of datasets shared with the Partners and Advisory Board. For the Research Team's part, we will have access to these confidential data to inform our mapping and reservoir characterization, but the raw data will not be made available to the public. Kyle Metz asked the group for input on how many cross sections should be prepared for the project, what wells should be used, and how the sections should be oriented. After some discussion, it was agreed that we will draft no more than four cross sections, with one running North-South through the project area and the other three running perpendicular to the first at different locations so that all geologic intervals are properly represented by these cross sections. Kris Carter will send a list of API numbers PA is using in their MRCSP tri-state area cross sections to kick start this work.

3) Project Schedule and Milestones

Doug revisited the official project schedule (see below). We're officially in Month 4 of 12 and are generally on schedule. Strategy 1 is ongoing, but Strategy 2 has been initiated. Data compilation (as per Strategy 1) is key to the rest of our work.

Strategies/Activities	Start Date	End Date
Strategy 1: Data Collection		
Identify and assemble well log and core data	Month 1	Month 2
Identify previous studies of interest	Month 1	Month 2
Create a project database (format, prototype)	Month 1	Month 2
Strategy 2: Stratigraphic correlation of key units		
Develop cross sections of the Salina Formation	Month 3	Month 8
• Develop cross sections of the Greenbrier Formation	Month 3	Month 8
Develop cross sections of the Keener to Berea Interval	Month 3	Month 8
Develop cross sections of the Upper Devonian Sandstones	Month 3	Month 8
Develop cross sections of the Oriskany Sandstone	Month 3	Month 8
Develop cross sections of the Clinton-Medina through Tuscarora Interval	Month 3	Month 8
• Develop cross sections of the Rose Run and Upper Sandy Member of the Gatesburg Formation	Month 3	Month 8
Strategy 3: Map the thickness, extent, and structure of potential storage units in the study area		
Map the Salina Formation	Month 5	Month 7
Map the Greenbrier Limestone	Month 5	Month 7
 Map the Keener-Berea, Upper Devonian, Oriskany, Clinton-Medina, and Gatesburg Formations 	Month 5	Month 7
Strategy 4: Conduct studies of reservoir character		
Characterize potential storage intervals in the Salina Formation	Month 5	Month 8
Characterize potential storage intervals in the Greenbrier Formation	Month 5	Month 8
 Characterize potential storage pools in gas-depleted sandstone reservoirs 	Month 5	Month 8
Strategy 5: Develop ranking criteria for potential storage zones		
• Determine criteria and weighted priority of potential storage zones	Month 8	Month 9
Strategy 6: Recommendations		
Rank all candidates within each category	Month 10	Month 11
• Rank the top candidates in each category	Month 10	Month 11
Strategy 7: Suggestions for engineering follow-up study		
Make suggestions for additional field and lab studies	Month 10	Month 11
Strategy 8: Project management and technology transfer		
Project management	Month 1	Month 12
Final Report	Month 11	Month 12
Technology transfer		Month 12+ ongoing

4) Action Items and Next Steps

Mohammad – There is still no signature on Ohio's subcontract. Please follow up.

<u>ALL</u> – send quarterly reports to Doug no later than November 11, 2016; send data to Kyle as soon as possible; continue submitting invoices to Doug

<u>Kris</u> – prepare meeting minutes, send MRCSP cross-section well lists to Ohio and WV

<u>Jessica/John</u> – distribute listservs to Industry and Advisory Board members

Next meeting date – Wednesday, December 7, 2016, at 10 am.