From:	McDonald, Jeffrey
To:	"Gilmore, Tyler J"
Cc:	Greenhagen, Andrew; Batka, Allan; Bayer, MaryRose; Elkins, Timothy; Krueger, Thomas; McAuliffe, Mary; Prabhu, Aditi; Shari.Ring@cadmusgroup.com; Saieh, Patrick; Smith, Robert H
Subject:	draft testing and montioring plan
Date:	Friday, February 14, 2014 3:10:00 PM
Attachments:	FutureGen TM Plan 2-14-14.pdf Well Shutdown Procedures 2014.docx FutureGen T&M Strategy Tables 2-10-14.xlsx

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Tyler,

Attached is a draft of the testing and monitoring plan. Thank you for providing the spreadsheet that helped fill in some of the holes that we had in the initial T&M plan. This version has a number of items highlighted that needs your attention as well as some suggested changes. Do you think that you and your team can review this and get back to us with a revised version by the end of next week?

Also, I'll reiterate the items we talked about just now on our call:

- Regarding final well construction diagrams, if those could detail where the perforations are planned, that would be helpful.
- We spoke about how we need to make sure that where injection is taking place (the horizontal section only?) matches how it was computationally modeled as well as proposed construction diagrams.
- If there Is a list of interested people that signed up with FG, can we see that list to add to our list of "interested people?"
- Please confirm that the depths that were used in your use of the CO2Flow software are correct. I saw language that described an injection interval at 3850' when my understanding is that the horiz. TVD is around 4040'. We are going to need an accurate surface pressure calc. as a backup to the downhole point of compliance for pressure limit.
- You confirmed my understanding that the monitoring wells (St. Peter and Ironton ones at least) will have continuous monitoring of pressure and temperature. The tables in the T&E plan will have to be corrected to show that.
- Surface air monitoring will likely not be a requirement under our permit.
- We'd like some suggestions on when and how emergency and gradual well shut downs might occur. [I'll attach something that Molly wrote up to help you understand this better]

Thanks again for your help and prompt responses,

Jeff

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