

Atlantic Rim Review Team Meeting
December 8, 2009
10:00 AM to 3:00 AM
Rawlins Field Office

Notes

Ester McCullough called the meeting to order. She welcomed staff and visitors. A sign-in list was circulated (see end of document) and introductions were performed. Due to inclement weather some participants called in including:

Tim Morrison	Little Snake River Conservation District
Chris Wichmann	Wyoming Dept. of Agriculture
Gary Strong	Wyoming Oil & Gas Conservation Commission
Aubrey Harper	Double Eagle Petroleum

Dave Simons made the first presentation. He used a Powerpoint presentation ("*BLM Atlantic Rim Review Team 2009 Powerpoint*"). Presentation points included:

Numbers of Wells Drilled

402 wells drilled to date according to WyOGCC records. Dave discussed the number of wells drilled and what their current operational status is. There are some discrepancies between WyOGCC figures, BLM, and Anadarko numbers that are attributed to notification and processing times, categorization of wells, and how the numbers are used. For instance a "spud" well means different things (and counts differently) for the each of the groups.

Total Disturbance to date

2,547 acres to date including 2,073 for Anadarko and 474 for Double Eagle have been reported by the companies. This is 1/3rd of the 7,600 acre disturbance cap.

Calculation of Disturbance

The utility of having geospatially reference shapefiles (GRS) to track the status of operations in the area including reclamation was discussed. In addition it was pointed out that when GRS data is not available the BLM will have to use estimations of the extent of disturbance using right-of-way width and length of the feature which will over estimate the extent of disturbance. Another problem is that the BLM cannot rollover reclaimed acreage that isn't GSR'd. In tracking disturbance and reclamation the BLM needs both polygonal features and linear features tracked and accounted for.

Disturbance Allocations

With the expiration of the exploratory drilling units the original premise used by the BLM to allocate disturbance to the various companies is no longer valid. Establishment of a new method to allocate disturbance will require participation of the companies and BLM to ensure the process is fair and equitable.

Interim Reclamation Success

The BLM rolled over 4.11 acres of disturbance this summer following a proposal to do so from Anadarko. Anadarko expects to submit about 40 more acres of reclamation rollover in 2010.

Final Reclamation (Rollover)

It was pointed out the final reclamation occurs when the entire project is complete. Rollover applies to interim reclamation under the disturbance cap for the project.

2010 Company Annual Planning

Anadarko Petroleum and Warren Resources

David Applegate gave a Powerpoint presentation ("*APC2009AtlanticRim – FallAnnualPlanning Mtgfinal.pdf*") for Anadarko and Warren Resources' 2010 annual planning presentation.

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Currently they are planning on drilling 10 wells next year, primarily for obligation reasons. The reduction in the drilling rate at Atlantic Rim is attributable to the fall in natural gas pricing. Companies expect the price to come back, but don't know when or how much. Activities at Atlantic Rim will be at a much reduced level until prices come back to economic levels.

Anadarko is working with the BLM to address a tank siting issue. They have sent off some water samples to the lab, and based on what comes back they will get back with the BLM to resolve the issues.

Double Eagle Petroleum

Aubrey Harper gave a presentation for Double Eagle over the phone. Double Eagle does not plan to drill any wells in 2010. Monitoring and production of the existing wells will continue over the course of the year. Surface discharge at Catalina is not happening and isn't expected to occur in the near future. The company has drilled 70 wells to date and is currently producing about 30 MM cubic feet of gas a day. 2010 activities are planned to include working over some existing wells also. The company plans on submitting a detailed plan in early January in support of the annual planning process. Aubrey agreed to send us the figures he read off over the phone so we can compare them to our notes.

Redwine Resources Inc.

No representatives for the company were at the meeting and no presentation was submitted.

Update on Performance Goal Protocols

Patrick Lionberger talked about the wildlife performance goals and used a Powerpoint demonstration ("*Atlantic Rim Review Team Meeting Wildlife 2009*"). Development of protocols for the project is on-going. One area of difficulty is in creating "triggers" for adaptive management. We are trying to use historic examples and limits identified by others (such as standards utilized by Rocky Mountain Bird Observatory for song birds) in this program.

We have gathered good baseline data on Muddy Creek water quality. The Anadarko 2009 study has not come out yet. When it does come out (early next year) we will forward it on to the Team and review the results for any items of concern that might exist. In addition we are considering implementing an upland erosion monitoring program. The agencies haven't firmed up the study and what it will look like enough to bring it to the attention of the companies yet. We will come forward with a complete proposals when we have it and present it to the company. How to implement the study will be on the table for discussion with the companies. APC stated they believe they have a "robust" stormwater monitoring program at Atlantic Rim and is open to further proposals. Anadarko pointed out that it will need at least a couple of months to process a proposal with funding commitments through its management system.

BLM and cooperators are also discussing changes to the song bird survey protocols and big game monitoring. Song bird surveys may be more useful by tying in with the Rocky Mountain Bird Observatory and using its survey protocols. We are not sure what big game monitoring we will do in 2010, but will get results from the 2008-2009 collaring study in the spring to evaluate and determine future needs.

Andy Warren spoke about the agriculture / range related performance goals. Basically the BLM and cooperators are going by the premise that range related Standard and Guides monitoring by the BLM and reclamation monitoring and reporting by the companies will be adequate to monitor performance goal related issues. A periodic watershed analysis study will also be conducted for the Atlantic Rim area in 2010. It will supplement the other monitoring data S:\Atlantic_Rim\Post ROD\EAs RoD and internet\homepage files\files to post\Company Annual Reports\2009presentation\blm presentation\2009 Review Team Annual Planning Meeting Notes.docx

coming in. The goal is to detect and respond to an adverse situation in time to avoid major impacts to the various performance goal standards in the area. Further refinement is going on for all the performance goals and additional monitoring can be implemented if the need is observed.

Rawlins Field Office (RFO) range staff have a detailed riparian monitoring program. There is a declining trend in shrub communities in the area. RFO is working to address that problem using prescribed burns, and Spike herbicide treatments. There are also fence conversion needs in the area BLM is working on, and more to come in the future. 7 miles have been completed and we're looking for 10 – 15 miles in 2010. The priority is in mule deer migration corridors.

Pam Murdock gave an update on the status of reclamation monitoring. RFO is developing a software package to track reclamation status for all disturbance activities in the field office, including oil and gas development. She presented a Powerpoint ("*ReclamationPres.pdf*"). The RFO is still developing the software package but believes the final version will be substantially similar to the studies and reporting the Atlantic Rim companies are doing now. A RFO Information Memorandum is planned for later this year to bring RFO operators on board and beta versions are currently out for testing with some of the companies in the field office area. There is a real challenge to integrate company data collection with BLM monitoring needs, but we are not that far away.

