Internal
C0070001
OK

From: Priscilla Burton
To: OGMCOAL
CC: Brinton, Peter; Helfrich, Joe; Lundmark, Kevin; Schmitz, Mark; Steab...
Date: 8/11/2010 12:29 PM
Subject: White Oak 007001 Internal Insp. Rpt. #2443
Attachments: Insp Rpt 2443_20100811123300.pdf; InspRpt2443A.pdf

Inspection Report #2443 and photo attachment for the White Oak site visit on July 29, 2010.

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The State of Utah

Department of Natural Resources

Division of Oil, Gas & Mining

ROBERT L. MORGAN
Executive Director

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Division Director

OLENE S. WALKER
Governor

GAYLE F. McKEACHNIE
Lieutenant Governor

Inspection Report

Representatives Present During the Inspection:	
OGM	Priscilla Burton
OGM	Kevin Lundmark
OGM	Peter Brinton

Permit Number:	C0070001
Inspection Type:	PARTIAL
Inspection Date:	Thursday, July 29, 2010
Start Date/Time:	7/29/2010 10:00:00 AM
End Date/Time:	7/29/2010 2:00:00 PM
Last Inspection:	Monday, June 21, 2010

Inspector: Priscilla Burton,

Weather: RAIN, 60 F

InspectionID Report Number: 2443

Accepted by: jhelfric
8/2/2010

Permitee: **LODESTAR ENERGY INC**
Operator:
Site: **WHITE OAK MINE**
Address: ,
County: **CARBON**
Permit Type: **PERMANENT COAL PROGRAM**
Permit Status: **RECLAIMED**

Current Acreages

3,906.00	Total Permitted
151.10	Total Disturbed
	Phase I
	Phase II
	Phase III

Mineral Ownership

- [x] Federal
- [x] State
- [x] County
- [x] Fee
- [ ] Other

Types of Operations

- [x] Underground
- [x] Surface
- [x] Loadout
- [ ] Processing
- [ ] Reprocessing

Report summary and status for pending enforcement actions, permit conditions, Division Orders, and amendments:

Visit was made to familiarize Mark Schmitz, DWQ, with the site and discuss biosolids application. Water was flowing in gullies and in the reclaimed channel. The Division took a water sample for analysis.

Inspector's Signature: Priscilla Burton **Date** Thursday, July 29, 2010

Priscilla Burton,
Inspector ID Number: 37

Note: This inspection report does not constitute an affidavit of compliance with the regulatory program of the Division of Oil, Gas and Mining.

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REVIEW OF PERMIT, PERFORMANCE STANDARDS PERMIT CONDITION REQUIREMENTS

1. *Substantiate the elements on this inspection by checking the appropriate performance standard.*
   a. *For COMPLETE inspections provide narrative justification for any elements not fully inspected unless element is not appropriate to the site, in which case check Not Applicable.*
   b. *For PARTIAL inspections check only the elements evaluated.*
2. *Document any noncompliance situation by reference the NOV issued at the appropriate performance standard listed below.*
3. *Reference any narratives written in conjunction with this inspection at the appropriate performace standard listed below.*
4. *Provide a brief status report for all pending enforcement actions, permit conditions, Divison Orders, and amendments.*

	Evaluated	Not Applicable	Comment	Enforcement
1. Permits, Change, Transfer, Renewal, Sale	☐	☐	☐	☐
2. Signs and Markers	☐	☐	☐	☐
3. Topsoil	☑	☐	☑	☐
4.a Hydrologic Balance: Diversions	☐	☐	☐	☐
4.b Hydrologic Balance: Sediment Ponds and Impoundments	☐	☐	☐	☐
4.c Hydrologic Balance: Other Sediment Control Measures	☑	☐	☑	☐
4.d Hydrologic Balance: Water Monitoring	☑	☐	☑	☐
4.e Hydrologic Balance: Effluent Limitations	☐	☐	☐	☐
5. Explosives	☐	☐	☐	☐
6. Disposal of Excess Spoil, Fills, Benches	☐	☐	☐	☐
7. Coal Mine Waste, Refuse Piles, Impoundments	☐	☐	☐	☐
8. Noncoal Waste	☐	☐	☐	☐
9. Protection of Fish, Wildlife and Related Environmental Issues	☐	☐	☐	☐
10. Slides and Other Damage	☐	☐	☐	☐
11. Contemporaneous Reclamation	☐	☐	☐	☐
12. Backfilling And Grading	☐	☐	☐	☐
13. Revegetation	☐	☐	☐	☐
14. Subsidence Control	☑	☐	☑	☐
15. Cessation of Operations	☐	☐	☐	☐
16.a Roads: Construction, Maintenance, Surfacing	☐	☐	☐	☐
16.b Roads: Drainage Controls	☐	☐	☐	☐
17. Other Transportation Facilities	☐	☐	☐	☐
18. Support Facilities, Utility Installations	☐	☐	☐	☐
19. AVS Check	☐	☐	☐	☐
20. Air Quality Permit	☐	☐	☐	☐
21. Bonding and Insurance	☐	☐	☐	☐
22. Other	☐	☐	☐	☐

3. Topsoil

No topsoil at the site and revegetation is meager. Improvements to overburden soils through application of biosolids was discussed with Mark Schmitz. Mark said 15 Metric Tons/ac is routinely aplied to corn and 3 MT/ac to winter wheat. Mark said that the PRWID biosolids likely have 1% nitrogen due to their use of facultative drying basins to that allow the ammonium to volatilize. One time applications of up to 5X the agronomic rate for nitrogen are allowed, and this would amount to little more than a light scattering on the ground with biosolids. He said that a one time application more than the agronomic rate could be done on the 28% south facing slope, and would require only a letter of explanation to DWQ. He encouraged us to seek additional sources of biosolids so that the entire south slope could be treated with biosolids. Mark suggested Spanish Fork and Provo treatment plants as sources. Mark will review the PRWID permit for biosolid application requirements. Mark also discussed the contribution of this drainage to the overall condition of Scofield reservoir which is impaired due to high sediment loading. [Subsequent to this inspection, during a conference call on 8/4/2010 with Priscilla, Mark and Bob Brobst of EPA, the application of 20 dry MT biosolids/ac was determined to be acceptable based upon the soils and PRIWID analyses.]

4.c Hydrologic Balance: Other Sediment Control Measures

Upon arrival at the White Oak site, flow was observed in the Whiskey Creek channel and in numerous gullies on the south facing slope. The water was brown and highly turbid with suspended sediment. In the Whiskey Creek channel, water was observed flowing under torn geofabric. Flows at the site dissipated quickly after the precipitation ceased, and no flow was observed in the channel at the completion of the inspection.

4.d Hydrologic Balance: Water Monitoring

The Division had planned to collect samples of groundwater discharge in the Whiskey Creek channel to evaluate the potential source of orange staining observed in the channel during a site visit completed June 2010. Heavy rainfall and flow in Whiskey Creek on July 29 precluded collecting representative groundwater seep samples. However, water samples were collected from Whiskey Creek to gain information on water quality during storm flow events. The sample location was directly below the end of the paved access road. Samples were collected and placed in a cooler on ice. Field measrements were: pH = 8.24, temperature = 14.1 C, conductivity = meter error. Samples were submitted to the UT Unified State Lab for analysis of total iron, TDS, TSS and nutrients.

Mark Schmitz collected a sample from Whiskey Creek to provide visual evidence of suspended solids levels in the creek during storm events. No samples were collected by Mr. Schmitz for off-site analysis.

14. Subsidence Control

Sinkholes previously identified at the site and associated with sealed portals were holding pooled rainwater.

White Oak Inspection July 29, 2010
Inspection Report #2443
Attachment

Water in gullies.

Sampling from stream.