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State of Utah

Department of Natural Resources

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas & Mining

JOHN R. BAZA
Division Director

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

Inspection Report

Representatives Present During the Inspection:		
OGM	Priscilla Burton	Environmental Scientist III
OGM	Wayne Western	Environmental Scientist III
OGM	Jim Smith	Environmental Scientist III
Other	Erik Petersen	
OGM	Dana Dean	Environmental Scientist III
OGM	Joe Helfrich	Environmental Scientist III

Permit Number:	C0250005
Inspection Type:	TECHNICAL
Inspection Date:	Wednesday, September 06, 2006
Start Date/Time:	9/6/2006 8:30:00 AM
End Date/Time:	9/6/2006 2:30:00 PM
Last Inspection:	

Inspector: Priscilla Burton, Environmental Scientist III

Weather: partly sunny, 70 F

InspectionID Report Number: 1065

Accepted by: whedberg
9/29/2006 OK

Permitee:

Operator:

Site: **COAL HOLLOW**

Address: ,

County: **KANE**

Permit Type: **PERMANENT COAL PROGRAM**

Permit Status: **PROPOSED**

Current Acreages

	Total Permitted
	Total Disturbed
	Phase I
	Phase II
	Phase III

Mineral Ownership

- ☐ Federal
- ☐ State
- ☐ County
- ☐ Fee
- ☐ Other

Types of Operations

- ☐ Underground
- ☐ Surface
- ☐ Loadout
- ☐ Processing
- ☐ Reprocessing

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

Division review team and Permit Supervisors Wayne Hedberg and Pamela Grubaugh-Littig and BLM Kanab Field Office personnel (Rex Smart, Keith Rigtrup, Hugh Wolfe, Tom Christensen, Lisa Church, Randy Beckstrand met with landowners C. Burton Pugh and Richard Dame and Alton Coal Development Co. representatives Allen Childs and Larry Johnson and their consultants (Rich Bates, Patrick Collins, Eric Peterson, and Bruce Chessler) for a look at the environmental resources within the proposed mine permit area.

Inspector's Signature: Priscilla Burton **Date** Wednesday, September 13, 2006

Priscilla Burton, Environmental Scientist III
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	☑	☐	☑	☐

1. Permits, Change, Transfer, Renewal, Sale

The Coal Hollow application was received June 27, 2006. The ACR review (sent 8/28/06) was discussed with Applicant and Consultants.

3. Topsoil

Bruce Chessler, Randy Buckstrap, Priscilla Burton, Larry Johnson, and C. Burton Pugh traversed the site in vehicles. The soils are on a gentle (4%) slope and derived from colluvium and alluvuium. In a few locations, Mr. Chessler augered the soil to ascertain general soil characteristics. Soils in the 40-acre proposed office/storage yard are high in clay (montmorillonite) and contained carbonates (exhibited a fizz reaction). These soils are in the Order Entisol. In the 1950's oats and wheat were grown on these soils, now the vegetation is black sagebrush.

Soils in the vicinity of the proposed spoil storage area were more productive, supporting a big Sagebrush stand and an oak grove. Other plants noted in the proposed spoil storage area were snowberry, rabbitbrush, wild rye, wheat grass, and cheat grass. These soils were more sandy in texture and probably residual (formed in place from sandy parent material). These sandy soils grew a 700 bu/ac crop of potatoes in 1917.

Soils by the topsoil stockpile and pond area were producing a meadow. Cacti and snake grass (a wet meadow indicator) were growing side by side along the road. The soil survey will be conducted this fall. Each map unit will be supported by at least one profile description.

4.d Hydrologic Balance: Water Monitoring

Jim Smith and Eric Peterson toured the site in one vehicle. Concerns for the alluvial aquifer (and Alluvial Valley Floor, if one is present) were revisited. Additional borings are to be made, and the Division recommended at least one be placed east of the projected fault. Mr. Dame and Mr. Pugh expressed concerns for the springs on their property. Many springs are located along and near the fence line between Mr. Pugh's and Mr. Dame's property in the NW 1/4 of Sec. 29, and the triangular portion of Mr. Pugh's property in Sec. 29 will not be mined.

6. Disposal of Excess Spoil, Fills, Benches

No excess spoil is anticipated at the site.

9. Protection of Fish, Wildlife and Related Environmental Issues

Sage grouse leks, deer, and elk habitat within the proposed permit area were discussed during the tour. A helicopter fly over with Mr. Collins and Ms. Church presented a good overview of the proposed operation and possible transportations corridors. Vegetative communities and wildlife habitats were easily identified. There were no deficiencies noted in the Biology and Cultural Resource portions of the ACR.

13. Revegetation

Vegetation and wildlife maps are "works in progress" and were ground truthed with Patrick Collins from Mt. Nebo Scientific and Lisa Church, Wildlife biologist from the Kanab BLM office. Mr. Collins provided a ground tour of the proposed locations of the permit area, disturbed areas, and surface facilities.

Vegetation and wildlife communities were discussed and compared to the preliminary maps. As noted, the mature oakbrush community located in the Northeastern portion of the proposed permit area will be added to the veg maps. Reference areas will be determined in consultation with Mr. Collins. Since the surface mining activities will affect several types of vegetative communities, in turn several reference areas will need to be established. The pinyon Juniper areas are proposed to be reclaimed to a different standard of success that being more compatible with sage grouse, deer and elk. Corresponding reference areas will need to be established for these areas.

14. Subsidence Control

No subsidence is anticipated.

22. Other

Mr. Childs, toured the site with P. Grubaugh-Littig, W. Hedberg, R. Smart, K. Rigrup, H. Wolfe, T. Christensen, R. Bates, D. Dean and W. Western. The operational designs were discussed by this group.