OGMCOAL - 0070006 Star Point Insp Rpt 3208

From: Priscilla Burton
To: Dennis Ware; OGMCOAL
Date: 9/7/2012 3:01 PM
Subject: 0070006 Star Point Insp Rpt 3208
Attachments: 0080006 Star Point Insp Rpt 3208 8232012.pdf; Star Point geotextile installation.pdf

Hello Dennis,
I made a quick trip up to Star Point to gather information for a power point presentation to be used internally. I am sending you a copy of that inspection report and a copy of the presentation.
Priscilla.

Priscilla Burton

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Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

Inspection Report

Permit Number:	C0070006
Inspection Type:	TECHNICAL
Inspection Date:	Thursday, August 23, 2012
Start Date/Time:	8/23/2012 9:00:00 AM
End Date/Time:	8/23/2012 12:00:00 PM
Last Inspection:	Thursday, August 16, 2012

Representatives Present During the Inspection:
OGM Priscilla Burton

Inspector: Priscilla Burton,
Weather: overcast, 60 F
InspectionID Report Number: 3208
Accepted by: jhelfric
9/6/2012

Permitee: **PLATEAU MINING CORP**
Operator: **PLATEAU MINING CORP**
Site: **STAR POINT MINE**
Address: **PO BOX 30, HELPER UT 84526-0030**
County: **CARBON**
Permit Type: **PERMANENT COAL PROGRAM**
Permit Status: **RECLAIMED**

Current Acreages

8,885.00	**Total Permitted**
87.30	**Total Disturbed**
100.76	**Phase I**
100.76	**Phase II**
13.46	**Phase III**

Mineral Ownership

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

Types of Operations

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

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

Observed and photographed the geotextile installations along the drainages of the Lion's Deck.

Inspector's Signature:

Priscilla Burton,
Inspector ID Number: 37

Date Thursday, August 23, 2012

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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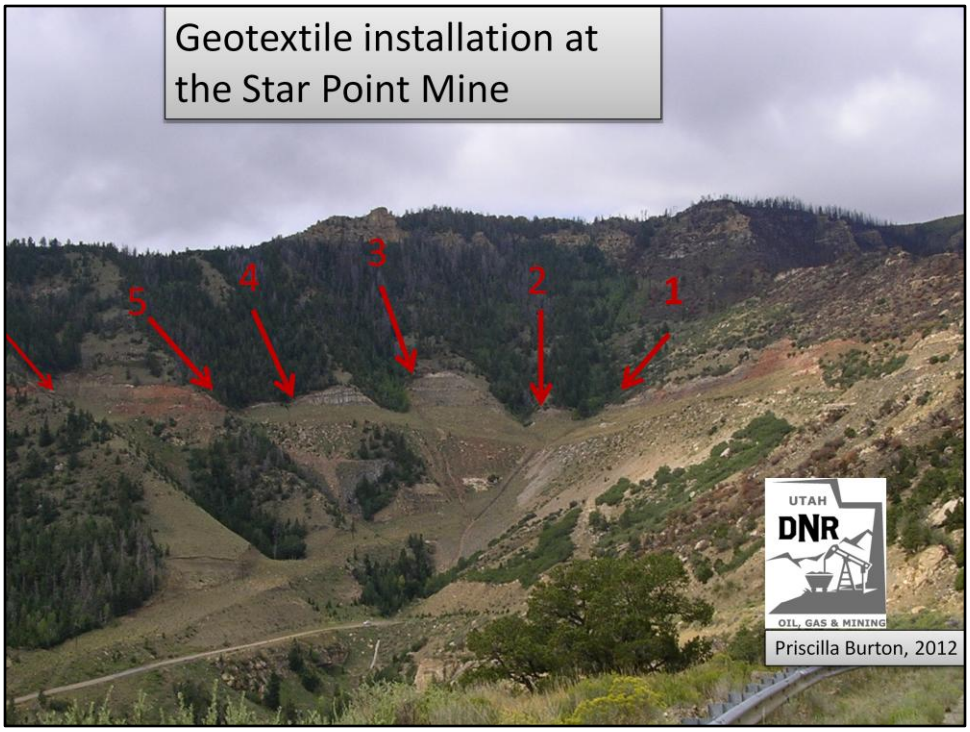
REVIEW OF PERMIT, PERFORMANCE STANDARDS PERMIT CONDITION REQUIREMENTS

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	☐	☐	☐	☐

4.c Hydrologic Balance: Other Sediment Control Measures

Observed and photographed five locations where geotextile fabric was installed in the draws above and below the Lion's Deck for the purpose of creating a powerpoint presentation. Photos are saved in the image folder with the date 8/23/2012. Powerpoint is saved in O:0070006.STP



Reclamation treatments included installation of 'Pyramat' geotextile fabric in six "draws" that carried ephemeral flow. Pyromat was used to hold the soil in place and allow vegetation to get established.

The facilities at the Lion's Deck: bathhouse, portals, rock tunnel, warehouse.

Mine waste was buried against the cut and covered with four feet of soil

The County road remained, but was reduced in size. Reclamation of highwalls required disturbance of the downhill slopes. Disturbed drainages were treated with Pyramat.

The contour of the drainage channel was graded into the mine waste.

The geotextile fabric is laid on top of the 4 ft. of soil covering the mine waste. The geotextile is pliable to conform to shape of the slope.

Geotextile is placed on the prepared drainage and covered with soil.

The installation continues upslope.

Completed installation .

Track hoes are placing soil over geotextile fabric that was used above and below the road. The road remained for the post mining land use. (There are no culverts on the road, the water passes across the road.)

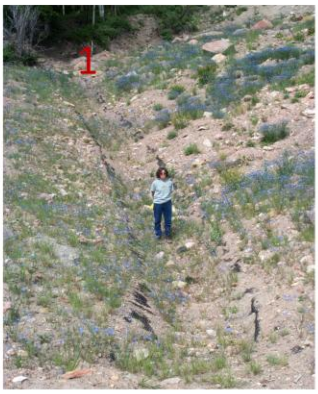
Fabric has been covered with soil. The Division records confirm that the site was seeded and hydromulched with tackifier by 9/5/2002 (2002 Internal 0029.pdf).

2002 and 2012

Pyramat installation in 2002 and appearance in 2012. Two Tons/ac hay was incorporated into the slopes with gouging. One T/ac straw mulch was blown on the surface. The site was seeded, and a hydromulch with tackifier was applied. The seeding was accomplished in late August or early September.

Appearance in 2012

2004 and 2012



Installation at location 1 after 2 years and 10 years.

Location 2 is invisible in 2012

Pyramat is totally overgrown in location 2.

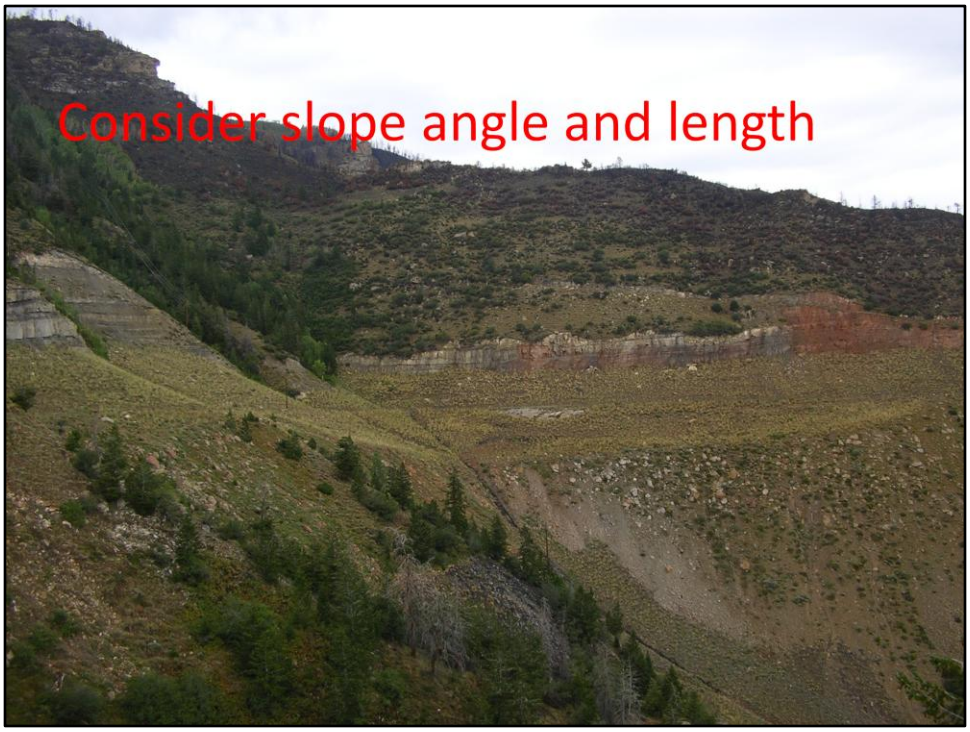
It took a close up look to find the Pyramat in location 2.

2004 and 2012

After a couple years of seasons, the geotextile slumped in places.

Location 4 has filled in with vegetation.

Location 5 has filled in with vegetation.



Geotextile works well on slopes less than 1.5h : 1v and on shorter slope lengths. The steep slope below the road has a run of several hundred feet at a 1.5h:1 v slope. Geotextile treated drainages are more stable, but soil movement beneath the geotextile installations is noticeable.

Rock covers geotextile installation at #3 where soil washed out from beneath it on the steep road outslope

This steep convex road outslope required a layer of rock to keep the pyromat in place.

1.5h:1v portion of the slope treated with geotextile.

Looking up the channel

Looking down the same channel

Soil movement on this long, straight, 1.5h:1v (30 degree) slope is evident in the many bumps of slumped fabric that act as drop structures in the channel.

Steep 1.5h:1v section

Erosion along the edges

Slumping fabric creates drop structures.

Erosion of soil from beneath the Pyramat is a concern on very long, steep sections. After ten years, the fabric is suspended 6 inches above the surface in some places on this 1.5h:1v slope. The fabric movement may be due to the way the fabric was laid from bottom to top of slope (not in accordance with the manufacturer's instructions). However, the slumping fabric has created desirable drop structures.

May 2006 and Aug 2012

Field notes confirm that geotextile was installed on the outslope of the pad, below the road, but not down the full length of the drainage in location #3. The location of Pyramat treatment in the drainage corresponds with the extent of surface gouging on the slope which is visible in the photo on the left.

This confluence provides a good contrast of sediment control with and without Pyromat. Geotextile was installed all the way up the drainage at the right, but only about 50 ft. up the drainage on the left. Both drainages are 1.5h:1 v.

Continuing on down the slope from the confluence of 3 with 1 & 2, the rock channel is stable.

Geotextile installations are especially useful on slopes less than 1.5h:1v. Pyromat is manufactured by Permathene.
http://www.permathene.com/htm/erosion/pyramat.html