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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:	C0070001
Inspection Type:	COMPLETE
Inspection Date:	Monday, August 01, 2011
Start Date/Time:	8/1/2011
End Date/Time:	8/24/2011
Last Inspection:	Friday, July 29, 2011

Inspector: Priscilla Burton

Weather: variable

InspectionID Report Number: 2843

Accepted by: jhelfric

9/14/2011

Representatives Present During the Inspection:

OGM James Owen

OGM Priscilla Burton

OGM Ingrid Campbell

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

- 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:

Innovative Excavation finished work at the mine site on August 3 and then moved to the Loadout to repair two damaged sections of C14-42. They completed the loadout culvert work on August 5. The disturbed area over the repaired culverts was seeded by Priscilla Burton on August 24. Skyline Mine finished work at the mine site on August 15. The Division sent a crew of 4 to do some follow-up hand work on 8/17/2011. Many photos were taken over various dates in August and are in the Images folder, saved by date. Emails sent to the internal file record the day to day progress of the reclamation during the first two weeks in August. See email to Outgoing folder dated 8/23/2011 and Incoming response dated 8/24/2011 concerning use of the roadway by logging trucks.

Inspector's Signature:

Priscilla Burton,

Inspector ID Number: 37

Date Wednesday, August 3, 2011



Note: This inspection report does not constitute an official statement of compliance with the regulatory program of the Division of Oil, Gas and Mining. telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • www.ogm.utah.gov

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 performance standard listed below.
4. Provide a brief status report for all pending enforcement actions, permit conditions, Division Orders, and amendments.

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

1. Permits, Change, Transfer, Renewal, Sale

On August 10, 2011, a final site walk through of the reclaimed mine site was attended by John Lee (Skyline Reclamation), Kent Fawcett (Innovative Construction), Daron Haddock, Joe Helfrich, Ingrid Campbell, James Owen and myself. On Thursday August 11, Mark Schmitz (DEQ/DWQ) walked the site with me.

8. Noncoal Waste

Innovative Excavation removed several pickup truck loads of waste metal from the mine site, as well as the sections of damaged culverts from the loadout.

10. Slides and Other Damage

Two 20 ft. sections of 42 inch culvert were replaced at the loadout. The sections of damaged culvert were cut out and the new culvert sections banded in place. See photos in the 8/18/2011 Images folder.

12. Backfilling And Grading

In the first days of August, Innovative Construction backfilled over the concrete plug in the large subsidence hole and closed off access to Terrace B. Material for fill over the concrete plug and for closure of R1 was obtained from the flat area at the bend in R1. The contractor cleared metal debris from the borrow area. The berm along road R1 was kept in place, as it was well vegetated and would help discourage gully formation. Roads R2 and R2A and the temporary access along Whiskey Creek to the small subsidence hole were also reclaimed. Biosolids were spread with a dozer during reclamation of Roads R1 and R2 and R2A. Geotextile was removed from Reaches 1 and 2 where it was encountered. Two more, 5 ft. drop structures were constructed in Reach 2. Logs were scattered along the banks in Reach 2 and buried in the channel banks of Reach 3.

Skyline Reclamation scattered 1 ton/ac straw in the area of R2 reclamation. Old straw that had sat through the winter was difficult to spread and was therefore scattered in clumps below Terrace A. The straw was gouged in with a track hoe, except that in the area of reclaimed R1, old straw was scattered in clumps after gouging.

13. Revegetation

Coordinating the work of the two contractors was a challenge, as they closed out the site. Level access was required for hydroseeding, consequently small areas were closed out at a time. That meant that all the riparian areas, the large subsidence hole area, and all of the area below Terrace A, including R2A, the seed was applied by hand and then followed by hydromulching, because the seed could not sit for too long in the hydrotank, whereas the mulch could. This approach was helpful in the case of the riparian seed in Reach 4, where there was a time lag of one week between hand seeding and hydromulching, due to equipment failure. However, success of seeding on the east side of Reach 4 should be noted next spring, since the slope is so steep and the hand broadcast seed may have moved downhill in the time between seeding and mulching.

Only the cut slope above R1, reclaimed R1 and R2 were both hydroseeded and hydromulched.

In July (see Inspection Report #2826), slopes above and below Terrace B were hydroseeded and hydromulched and wood straw was scattered on the slope below Terrace B. In August, wood straw was scattered below Terrace A. Wood straw was not applied to the R1 reclaimed area or the large subsidence hole reclaimed area. Wood straw was applied to the R2 reclaimed area. The 5 remaining gullies were stuffed with wood straw, since plantings did not take well. Eleven pallets of wood straw were dropped by helicopter on the slope below Terrace C. A Skyline Reclamation crew scattered the straw after the drop. The application of wood straw over the site is varied. The goal was to have 40% coverage, but in some cases there is 100% and some none. Application of wood straw depended upon ease of access from the remaining roads. Uneven distribution can be seen in the photographs.

Planting of seedlings on the west bank of the channel was delayed until earthwork was completed. Many plants for the terrace locations provided by Progressive Plants were large (3 ft. high) and root bound in one gallon pots. These large plants were not ideal for the situation and losses were heavy within days of planting. Sagebrush and currant were planted in the regraded R2A (former sediment pond area and below Terrace A). Skyline crews did not plant the west bank in Reach 3 and 4, because vehicle access was removed. Instead, the Skyline crew planted the main channel at the confluence with the side channel very heavily, since it was within a short distance of vehicle access from Terrace A. On August 16, a Division crew of five (Ingrid Campbell, Suzanne Steab, James Owen, Joe Helfrich and myself) transplanted approximately 75 riparian seedlings from the heavily planted, confluence to locations further down the channel in Reach 2 and on the banks of Reach 3. The bank of Reach 4 did not get planted with seedlings, but the drop pools were well planted with willow seedlings.

At the loadout, I purchased 0.1 lb (all that was available) of Dryland Pasture Mix from IFA which contained: intermediate wheatgrass (30%), smooth brome grass (30%), Paiute orchard grass (30%), and Ladak alfalfa (10%). The Dryland mix was seeded on the upper culvert segment, by the RR crossing. August 16, the seed was

scattered and wood straw was applied to provide approximately 30% cover. On August 24, the lower culvert disturbed area was seeded with 1.0 lbs Moab Pasture Mix, also from IFA. This mix contained: 35% orchard grass (Potomac), 15% meadow brome grass (Fleet), 20% tall fescue (Favril), 18% orchard grass (Paiute) and 10% alfalfa (rhizomatous). The lower culvert disturbance was seeded by two different methods. One area was seeded and then raked and covered with wood straw. The second area was raked and then seeded and covered with wood straw. (Test of whether raking is necessary after seeding.) In this instance, the ground required raking before seeding, because it had crusted over in the 2.5 weeks since the job was completed.)

16.a Roads: Construction, Maintenance, Surfacing

Terrace A and a portion of R1 remain as an access road. See email to outgoing folder dated 8/23/2011 and incoming response dated 8/24/2011 concerning use of the roadway by logging trucks.

16.b Roads: Drainage Controls

Water bars were restored along Terrace A and the access portion of R1. The slope of access R1 was graded to the cut to send water down the road and into downstream culverts.

22. Other

Emails sent to the internal file record the day to day progress of the reclamation during the first two weeks in August. See email to outgoing folder dated 8/23/2011 and incoming response dated 8/24/2011 concerning use of the roadway by the loggers to access the owners property to the south.