GARY R. HERBERT
Governor

GREG BELL
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:	C0070001
Inspection Type:	PARTIAL
Inspection Date:	Monday, July 11, 2011
Start Date/Time:	7/11/2011 9:00:00 AM
End Date/Time:	7/29/2011 6:00:00 PM
Last Inspection:	Wednesday, June 22, 2011

Representatives Present During the Inspection:	
OGM	Priscilla Burton
OGM	James Owen
OGM	Ingrid Campbell

Inspector: Priscilla Burton,

Weather: sun 70 F

InspectionID Report Number: 2826

Accepted by: jhelfric
9/14/2011

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:

The remaining work on contract AR 11035 was discussed with the contractor and subcontractor on July 7, 2011. Darin Caine, the landowner was notified that work would resume (Outgoing/07072011). Skyline Reclamation had a 3 man crew planting seedlings beginning July 11. Innovative Construction mobilized to the site on July 26 to finish the remaining earthwork on the contract AR 11035. Emails sent to the Internal file record the day to day progress of the reclamation. Photos were saved by date. By the end of July, Terrace C and its outslope and the east bank of the channel in Reaches 4, and 3 and the channel above the confluence were well planted with seedlings. Also by the end of July, the soil had been graded in the vicinity of the former sediment pond, the last two channel drop structures were constructed in Reach 2, and the large and small subsidence holes were plugged.

Inspector's Signature: Priscilla Burton **Date** Wednesday, August 10, 2011

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.

UTAH DNR OIL, GAS & MINING

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

On July 7, 2011, the following people attended an onsite meeting to discuss the remaining work: Kent Fawcett, Innovative Excavation; John and Dave Lee, Skyline Reclamation; Daron Haddock, James Owen, Ingrid Campbell, Steve Christensen, Chris Rohrer and myself. An itemized list of the remaining work was discussed. That list can be found in the files under 0070005/2011/Outgoing/07052011. A map illustrating locations of the remaining work was created to guide the planting of seedlings and hydroseeding locations. The map was sent to the contractor on July 11 (and to the Internal file).

9. Protection of Fish, Wildlife and Related Environmental Issues

Elk were seen on the site before the work began. Many chipmunks and a couple of yellow bellied marmots (rock chucks) were seen on the site. Coyotes and pups were heard over the ridge.

10. Slides and Other Damage

The large subsidence hole had been filled (but not overfilled) last year, but the area again subsided. Snow melt created a few large gullies on the northern end of the site, where drainage was not yet funneled to a terrace. Discussion in the files of closing out all roads on the site to avoid erosion problems was shelved, as the obligation to provide access to the landowner was paramount.

12. Backfilling And Grading

The terraces functioned as planned to deliver runoff to the stream channel. The drop structures and pools and stream banks maintained their integrity. The remainder of the earthwork to be completed was spelled out in a list sent to the internal file on July 5, 2011. Innovative Construction mobilized to the site on July 26. Biosolids were hauled down from the storage area and stockpiled in the vicinity of R2 for use in this area. The small stockpile of biosolids near the large subsidence hole were removed and scattered with the track hole just below and above Terrace B. The polyacrilamide (PAM) treated biosolids did not scatter well and stayed in large clods. They will weather over time.

The grading was completed in the former sediment pond area. More rocks were gathered for use in two more drop structures and in the repair of minor damage to the channel banks. Logs were im bedded with surface roughening to direct water towards the stream channel. Several more logs were imbedded in the west side channel banks of Reach 3. Straw was scattered over the graded slope to the west of Reach 4 and it was incorporated with roughening.

13. Revegetation

While access was still available to Terrace B, Skyline Reclamation hydroseeded and hydromulched the slope above and below Terrace B. This area had been seeded by hand with the final mix in the snow last fall, but the hydroseeding was done to ensure a good take on this very visible portion of the site.

Seedlings were planted in the second week of July along the east bank (west facing bank) of the reconstructed channel and on the cut and berm and outslope of Terrace C. Fortunately the weather was very wet during this period. The Skyline crew needed a lot of direction to ensure that the crown of the plant was buried below the surface. With dry weather, it became necessary to water the plants in, as required by contract. Skyline crews used a small drum of water (20 gal?) and a hose to water plants planted below Terrace B. This method was short lived and plants were still found half planted in the ground and dried out. This situation was brought to Dave and John Lee's attention on several occasions and the crew made one attempt to replant a couple dozen of the exposed, dying plants near the confluence of the side channel and the main channel. Many plants died within a couple days of planting below Terrace A and Terrace B.

Sediment that accumulated in the stream channel pools provided a good location to plant willows. Other riparian species were planted heavily along the east bank (west facing) and above the confluence with the side channel during early July. The remainder of the stream was planted after channel work was completed in early August (see Inspection Report #2843).

Crews scattered wood straw over slopes within throwing distance above Terrace B. The distribution of the straw over the slopes is very uneven. Some areas have 100% coverage and some have none. The objective was to get 40% coverage by wood straw on the slopes. The uneven distribution can be seen in the photographs.

The hydroseeder/mulcher truck was brought to the site in the last week of July and spent several days stuck in the mud on Terrace A. Consequently, the stream channel in Reaches 3 and 4, as well as the regraded sediment pond area west of Reach 4 were hand seeded, but not hydromulched until a week later.

14. Subsidence Control

Terrace C and the side channel were improved to the extent that a concrete truck could access the large subsidence hole. (Some improvement was necessary after the truck was on site and required that the dozer drive on the slope above Terrace B, to get around the concrete truck, compacting that slope slightly.) Two extremely large boulders (4ft. X 4 ft. x 5 ft.) were placed in the large subsidence hole. Smaller (3 ft.) boulders were also wedged into the subsidence hole. Then nine yards of concrete were poured into the hole on Friday July 29. The cement was allowed to cure and then the area was backfilled. The soil over the subsidence hole was not roughened, in order to remove standing water as a source of further settling. Plants were planted above the subsidence hole in the "eyebrow" and around the feature to discourage access.

The smaller subsidence feature in the main channel was backfilled and plugged with a large boulder. A log was place immediately upstream to direct flow away from the feature. An eyebrow (ditch) was created above this feature as well.

The smallest subsidence hole, further downstream was not filled in, plants were planted near this feature to hold the soil.

22. Other

Daily emails sent to the Internal folder describe the work in more detail.