



**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:	<b>C0070001</b>
Inspection Type:	COMPLETE
Inspection Date:	Thursday, November 03, 2016
Start Date/Time:	11/3/2016 3:00:00 PM
End Date/Time:	11/7/2016 3:00:00 PM
Last Inspection:	Tuesday, September 20, 2016

<b>Representatives Present During the Inspection:</b>
OGM Priscilla Burton

Inspector: Priscilla Burton  
 Weather:  
 InspectionID Report Number: 5687  
 Accepted by:

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

**Current Acreages**

3,906.00	<b>Total Permitted</b>
	<b>Total Disturbed</b>
	<b>Phase I</b>
	<b>Phase II</b>
	<b>Phase III</b>

**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:**

I inspected the Eccles Creek reclamation and the Loadout. I photographed the first year vegetation on the reclaimed slopes of the Eccles pad and culvert removal project. I re-seeded the Eccles Creek reclamation with the Whiskey Creek seed mix. The South facing slope was seeded on 11/3 and the North facing slope was seeded on 11/7/2016. The Whiskey Creek seed mix is attached.

Loadout culvert and pond locations are shown on Dwg R645-301-527, sheets 1 and 2.

**Inspector's Signature: Priscilla Burton**

Priscilla Burton,  
 Inspector ID Number: 37

Digitally signed by Priscilla Burton  
 DN: cn=Priscilla Burton, o, ou,  
 email=priscillaburton@utah.gov, c=US  
 Date: 2016.12.05 18:27:55 -07'00'

**Date** Monday, November 03, 2016



**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, Divison Orders, and amendments.

	Evaluated	Not Applicable	Comment	Enforcement
1. Permits, Change, Transfer, Renewal, Sale	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Signs and Markers	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Topsoil	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.a Hydrologic Balance: Diversions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.b Hydrologic Balance: Sediment Ponds and Impoundments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.e Hydrologic Balance: Effluent Limitations	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Explosives	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Disposal of Excess Spoil, Fills, Benches	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Coal Mine Waste, Refuse Piles, Impoundments	<input type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Slides and Other Damage	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Contemporaneous Reclamation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Backfilling And Grading	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Cessation of Operations	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.a Roads: Construction, Maintenance, Surfacing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Support Facilities, Utility Installations	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19. AVS Check	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Air Quality Permit	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Bonding and Insurance	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22. Other	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### **4.a Hydrologic Balance: Diversions**

At the loadout: The outlet of culvert C-14-42 was clearly visible on the bank above Mud Creek, photo 1. East of the RR water is ponded a foot to two feet deep at culvert C-1-32, photo 2. Culvert C-4-42 East of the RR tracks is exposed at the surface and torn open. This damage was first noted on May 12, 2009. This culvert is the responsibility of the RR, but has not been maintained. The opening in the 42 inch culvert is approximately 16 inches square and presents a hazard to wildlife (especially when snow covered), photo 3. I piled RR ties and rocks over the opening to temporarily fix the problem, photo 4. I will contact the RR to report the issue. Culvert C-7-24 passes beneath the access road North along the RR tracks. C-7-24 is crushed at its inlet in ditch D7, photo 5. Some erosion of the road is occurring as a result.

#### **4.b Hydrologic Balance: Sediment Ponds and Impoundments**

At the Loadout: Pond 001A is holding water, photo 6.

#### **8. Noncoal Waste**

I picked up trash on the Eccles Creek reclamation area.

#### **9. Protection of Fish, Wildlife and Related Environmental Issues**

I removed thistle from the Eccles Creek reclamation area.

At the loadout, four years ago (11/6/2012), thistle was noted being dominant above the reclaimed culvert 2-14-42. Now there is no thistle in this location. The area is vegetated with grasses and shrubs, photo 7.

#### **13. Revegetation**

Vegetation is getting a start on the slopes above the reclaimed Eccles Creek. Photo 9. Two seeded forb species are frequently encountered: sanfoin and small burnet, photos 11 & 12. Wheat grass is also frequently encountered, nursed by Triticale which is now dry and dead. To further encourage vegetation and erosion control of the slopes, I spread the remaining Whiskey Creek project seed (one five gallon bucket full on each side of the creek). Seed mix is attached.

**16.b Roads: Drainage Controls**

Road drainage from Hwy 264 is creating erosion gullys down the reclaimed slope, photos 8 and 10. Sediment has settled at the river bank in some locations, creating ideal planting sites. Other sediment is beginning to fill in the deep hole just below that reclaimed site.. Keenan Storrar, Division hydrologist, and I met with Jim Chandler and Brian Nielson of the Utah Department of Transportation to discuss placement of road drainage control along Hwy 264 to prevent further damage. A plan of action was agreed upon. UDOT will install a culvert to collect road wash and direct it outside the reclamation area. This work will be coordinated with Brian Nielson. The Division will write a WRI grant to acquire money for installation of further sediment controls along the reclaimed slopes. The work will be done next spring/early summer.

TO: Nicole Nielson

# Whiskey Creek

Mix Name:

LBS in Mix

- 1) 3 Alfalfa 'Ladak'
- 2) 3 Alsike Clover
- 3) 2 Lewis Flax 'Maple Grove'
- 4) 2 Mountain Brome 'Garnet'
- 5) 1 Orchardgrass 'Palute'
- 6) 3 Sainfoin 'Eski'
- 7) 2 Slender Wheatgrass 'San Luis'
- 8) 3 Small Burnet
- 9) 0.5 Western Yarrow-Lincoln WA
- 10) 20 Rice Hulls

\* Bag weight: 50 pounds Net

Total LBS of MIX:

39.5

Great Basin Research Center and Seed Warehouse, Ephraim, Utah  
Utah Division of Wildlife Resources

Lot: SER-NN-WC-16

% Pure	GERM	PURITY	ORIGIN	Test Date:
Seed	93	99.81	ID	Aug-15
7.05	94	99.96	CAN	Aug-15
7.14	79	96.8	WA	Aug-15
3.87	91	98.35	ID	Sep-15
4.53	95	95.49	OR	Nov-14
2.30	97	99.88	MT	Aug-14
7.36	99	99.19	WA	Aug-15
4.97	86	99.76	OR	Oct-14
6.52	88	97.81	OR	Aug-15
1.09	0	0	0	Jan-00
0.00				
4.51				
0.01				
0				
0.02				

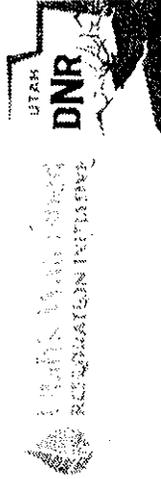
Species Lot:  
 SA-2190  
 12-0338  
 S13-283-12  
 10062166  
 LA22-11-46  
 13-0-7  
 S12-01-R11-2  
 W6-14-BUR-2  
 099-568-402A  
 0

Inert:

Weeds:

Toxicous:

Other crop seed:



**ATTACHMENT A – Photos**



**PHOTO 1** Loadout: The outlet of C-14-42 is visible on the bank above Mud Creek.



**PHOTO 2** Looking South at water ponded in ditch at C-1-32.



**PHOTO 3** Culvert C-4-42 is ripped.

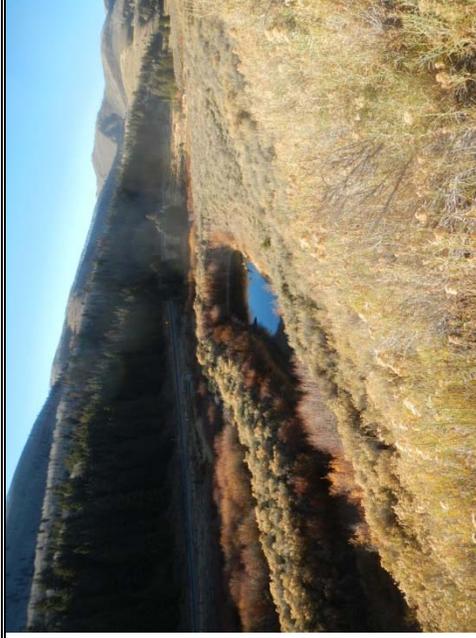


**PHOTO 4** Culvert C-4-42 temporary fix.

**ATTACHMENT A – Photos continued**



**PHOTO 5** Culvert C-7-24 damage on RR access road North.



**PHOTO 6** Pond 001A



**PHOTO 7**

Vegetation on repaired section of C-14-42.



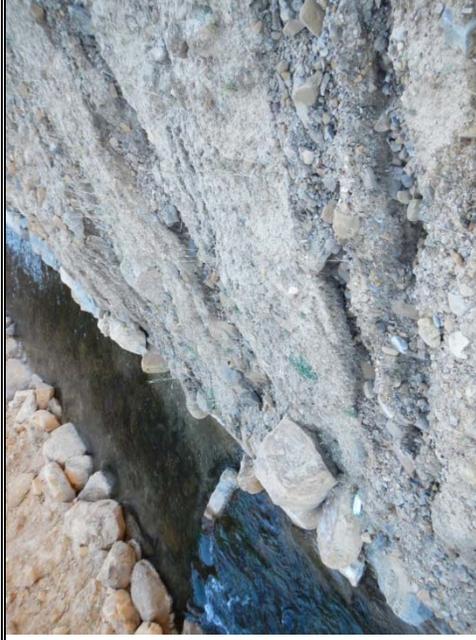
**PHOTO 8**

Erosion of reclaimed slopes above Eccles Creek from road wash.

**ATTACHMENT A – Photos continued**



**PHOTO 9** Looking upstream at reclaimed Eccles Creek.



**PHOTO 10** Erosion rills go all the way down to the stream.



**PHOTO 11**

Seeded species: small burnett and grasses on reclaimed slope at the end of the first growing season.



**PHOTO 12**

Seeded species: sanfoin on reclaimed slope at the end of the first growing season.