



June 13, 2003

TO: Internal File

THRU: Daron R. Haddock, Permit Supervisor

FROM: Priscilla W. Burton, Sr. Reclamation Specialist/Soils

RE: Technical Field Visit, Phase II Reclamation, Energy West Corp., Des Bee Dove Mine, C/015/017

**Other Attendees:**

Steve Fluke, DOGM, Hydrologist

**Date & Time:** June 3, 2003, 9:30 a.m. – 1:00 p.m.

**PURPOSE:**

To observe the progress of Phase II reclamation.

**OBSERVATIONS:**

Grading, gouging, mulching and seeding were complete almost all the way to the mine access gate (which had been removed). A track hoe was removing asphalt from the remaining roadway. The asphalt was being transported to the landfill. A dozer with a ripper shank was ripping the compacted surface left after the asphalt was removed.

Skyline Reclamation employees were loading Mat fiber mulch and Guar tackifier into the hydrosprayer. (Empty sacks of the mulch and tack were brought to the Division Biologist.) Dave Lee of Skyline Reclamation indicated that the mulch would be applied at 2000 lbs/ac. He provided us with the seed tags (attached).

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TECHNICAL FIELD VISIT

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Kimball Rasmussen was on site at the end of the inspection. He delivered 60 lb bales of hay (left over from Phase I) to be incorporated into the ripped, roadway soils with gouging. Mr. Rasmussen provided the phytosanitary certificate for the 1600 lb bales of hay used in most of Phase II reclamation (attached).

A small drainage crosses the reclaimed roadway northeast of the cattle trail. A depression has been left in the reclaimed roadway to accommodate the flow, but rocks do not cover the surface, such as those noted above and below the disturbance. Photographs of the undisturbed drainage above (P0004778.jpg) and below (P0004780.jpg) the roadway were taken for comparison with the reconstructed drainage (P0004779.jpg). Energy West indicated that there are cobble size and smaller rocks in the soil that will surface eventually, but a crew might be able to place some larger rocks on the drainage surface next week. Energy West does not expect a problem with erosion at this location (personal communication with Dennis Oakley on June 5, 2003).

The cattle trail is easily accessible and passable. The entrance to the cattle trail was photographed looking east (photograph P0004783.jpg). The new trail creates a fork with the old trail, which continues down into the reclaim site (photographs P0004781.jpg and P0004782.jpg). This convergence of the new trail with the old may lead to confusion of the cattle coming down the canyon. Energy West intends to place dead wood and rocks on the fork of the cattle trail that enters the reclaim site (personal communication with Dennis Oakley on June 5, 2003). The dead wood and rocks will be placed to capture sediment and lessen the flow from the cattle trail onto the reclaim site. Some debris was noted off to the side of the cattle trail near the convergence with the Phase II. This debris will be removed by helicopter (personal communication with Dennis Oakley on June 5, 2003).

Up the cattle trail, as we neared the fence in the Phase II portion of the site, the slope off to the south (on our left going up), had been stripped of coal mine waste and most of the soil. The steep slope did not receive the same quantity of hydro mulch and tackifier as the other slopes. This was mentioned to Mr. Oakley, but little can be done to firmly stick seed to this slope at this point in time. The slope is mostly bare rock and lack of vegetation will not necessarily translate into erosion from this slope (photograph P0004799.jpg and P0004802.jpg).

We skirted the fence and walked by the pour off above the Desert portal and on over to the 2<sup>nd</sup> drainage near the Little Dove portal in Phase I. Water had pooled in this location, but was now gone. We noted hoof prints in the dried, cracked mud.

Plant growth was noted in the pocks of Phase I (P0004801.jpg and P0004803.jpg) as well as Phase II areas that were seeded in February and March (P0004800.jpg and P0004804.jpg).

Down in the main drainage, there appears to be two very different installations of the 13% grade stream channel section. Photograph P0004798.jpg illustrates the firmly compacted portion of the channel in the vicinity of the Tipple at Stations 12+00 and 11+00 (see Drawing 500-3 of Appendix XV). Downstream of this (Stations 10+00 to 0+00), the rocks are packed differently (photographs P0004793.jpg, P0004788.jpg, P0004789.jpg). Energy West indicated that the two different constructions were the result of two different equipment operators and that the more compact installation in the Tipple area was more durable (personal communication with Dennis Oakley on June 5, 2003). No drop structures were constructed in the main drainage to break up the 13.1% grade of the drainage from the tipple area downstream. (The possible use of drop structures is described on page 20, Section 762.100 of App XV).

Topsoil covers all coal mine waste at the site. Energy West has previously estimated the topsoil coverage over much of the site to be two feet deep, with four feet of cover over the coal mine waste buried on the bathhouse pad.

Photos from this date can be viewed under the folder name 06032003 at:  
<ftp://ogm.utah.gov/PUB/MINES/coal/Images/015/017>

#### **RECOMMENDATIONS/CONCLUSIONS:**

At the next inspection, the Division hydrologist should evaluate the different installations of the 13% grade riprap channel in the main drainage. Hansen Allen & Luce should verify/certify that the construction is to their design standards.

# PHYTOSANITARY CERTIFICATE

## HAY OR STRAW INSPECTION

This is to certify that the hay or straw described below has been inspected according to appropriate procedures by a duly authorized inspector of the State of Utah and found to be:

FREE FROM:  NOXIOUS WEEDS  REGIONAL NOXIOUS WEEDS

The hay or straw described below does not meet noxious weed certification standards for Utah.  
See remarks.

DATE INSPECTED 7-25-2002 FIELD LOCATION Nephi

APPLICANT Randy Greenhalgh FIELD NAME Greenhalgh

ADDRESS 403 East Center Street Nephi, Utah 84648 PHONE NO. (435)623-0845

PRODUCT Alfalfa Hay NUMBER OF BALES 117

GROWN BY Same BALE TYPE\* LB

ADDRESS \_\_\_\_\_ COUNTY Juab

NAME AND ADDRESS OF CONSIGNEE \_\_\_\_\_

TRAILER OR TRUCK LICENSE NUMBER \_\_\_\_\_ STATE \_\_\_\_\_

CERTIFICATE IS VALID FOR 1 2 3 4 5 6 7 8 9 10 LOADS (Contract Loads only)

REMARKS OR ADDITIONAL DECLARATIONS Alfalfa Hay meets requirements of Utah Noxious Weed Free Forage Program.

Tags \$ \_\_\_\_\_

Mileage \$ 1.83

Fee \$ 25.00

Total \$ 26.83

Receipt \$ \_\_\_\_\_

From: \_\_\_\_\_ To: \_\_\_\_\_

Hay Tag Numbers

September 5, 2002

Date Issued

Tom Day  
Signature of Inspector

No liability shall attach to the Utah Department of Agriculture & Food or to any officer or representative of the Department with respect to this certificate.

- \* Bale Type: SB Small Rectangular Bale
- LB Large Rectangular Bale
- LR Large Round Bales
- SR Small Round Bales

CUSTOMER: ENERGY WEST MINING CO.  
MIXTURE NAME: DES BEE DOVE SEED MIX  
P.O. NUMBER: JD-N-3391

LOT 16569

PURITY	MIXTURE CONTENTS	ORIGIN
18.72%	FOURWING SALTBUCH	UTAH 51%
18.60%	SHADSCALE SALTBUCH VNS	UTAH 50%
12.54%	WINTERFAT	UTAH 65%
6.13%	GREAT BASIN WILD RYE	COLORA 46% + 36%
5.65%	WESTERN WHEAT GRASS	COLORA 89%
5.42%	SALINA WILD RYE	MONTAN 91%
4.10%	SECAR BLUEBUNCH WHEATRASS	WA 92%
3.89%	NESPAR INDIAN RICEGRASS	WASHIN 97%
2.67%	BOTTLEBRUSH SQUIRRELTAIL	UTAH 92% + 2%
2.67%	CRITANA THICKSPIKE WHEATGRASS	CANADA 94%
1.38%	PALMER PENSTEMON	UTAH 91%
0.92%	LOW RABBITBRUSH	UTAH 82%
0.23%	PACIFIC ASTER	UTAH 76%

Part 1 of 2

lot number 16569 continued

2.41% CRDF 17.95% INERT OLDEST TEST DATE: 8/1  
0.13% WEED NON FOUND

NET WEIGHT 1.00 LBS.

SHIP TO: ENERGY WEST MINING 0  
CENTRAL WAREHOUSE  
4 MILES WEST ORANGEVILLE  
ORANGEVILLE UTAH 84537  
FROM: MAPLE LEAF CO.  
EPHRAIM, UTAH 84627

Part 2 of 2