

# COLORADO DIVISION OF RECLAMATION, MINING AND SAFETY COAL PROGRAM INSPECTION REPORT



# **PERMIT INFORMATION**

Permit Number: C-1981-018	County: Rio Blanco			
Mine Name: Deserado Mine	Operation Type: Underground			
<b>Operator:</b> Blue Mountain Energy, Inc	Permit Status: Active			
Operator Address:	Ownership: Federal			
Mr Scott Wanstedt				
3607 County Road 65	<b>Operator Representative Present:</b>			
Rangely, CO 81648				
	Scott Wanstedt			
Operator Representative Signature: (Field Issuance Only)				

# **INSPECTION INFORMATION**

Inspection Start Date: December 19, 2013 Inspection Start Time: 11:30 Inspection End Date: December 19, 2013 Inspection End Time: 14:00			Inspection Type: Coal Complete Inspection Inspection Reason: Normal I&E Program Weather: Sunny	
Joint Inspection Agency:		Joint Inspection Contacts:		
None		None		
Post Inspection Agency:		Post Inspection Contacts:		
None		None		
Inspector(s):	Inspector's Signature: Signature D		nature: Signature Date:	
Zach T. Trujillo	30	2	1/7/14	

#### **Inspection Topic Summary**

NOTE: Y=Inspected N=Not Inspected R=Comments Noted V=Violation Issued NA=Not Applicable

N - Air Resource Protection N - Roads

R - Availability of Records N - Reclamation Success

N - Backfill & GradingN - RevegetationN - Excess Spoil and Dev. WasteN - Subsidence

N - Explosives
 N - Slides and Other Damage
 N - Fish & Wildlife
 N - Support Facilities On-site

R - Hydrologic Balance N - Signs and Markers

R - Gen. Compliance With Mine Plan
 N - Support Facilities Not On-site
 N - Other
 N - Special Categories Of Mining

**R** - Processing Waste **N** - Topsoil

#### **COMMENTS**

This was a complete inspection of the Deserado Mine by Zach Trujillo of Colorado Division of Reclamation, Mining and Safety (DRMS) conducted on December 19, 2013. Scott Wanstedt of Blue Mountain Engergy, Inc. (BME) accompainied the inspection. The weather was clear with the ground snow covered. Recent snow event had occured prior to the inspection. Temperatures for the day were around twenty degrees fahrenheit. This was a special focus inspection on the mine's sediment ponds.

#### AVAILABILITY OF RECORDS – Rule 5.02.4(1):

All records are kept on site at the Deserado Mine's office building with Scott Wanstedt. Please see the Division's Availability of Records checklist at the end of this inspection report for more detailed information.

#### HYDROLOGIC BALANCE - Rule 4.05

Drainage Control 4.05.1, 4.05.2, 4.05.3; Siltation Structures 4.05.5, 4.05.6; Discharge Structures 4.05.7, 4.05.10; Diversions 4.05.4; Effluent Limits 4.05.2; Ground Water Monitoring 4.05.13; Surface Water Monitoring 4.05.13; Drainage – Acid and Toxic Materials 4.05.8; Impoundments 4.05.6, 4.05.9; Stream Buffer Zones 4.05.18:

Pond DP-1 is the primary pond for the entire facility area. The pond's embankments were stable. The primary discharge is a riser pipe with the inlet was clear of debris. Cattails have been recently removed around the inlet to this spillway. The emergency spill way was well armored with rip rap and a concrete cutoff wall. The main channel from the intermediate facility bench was stabilized with rip rap. No cutting or instability was observed. The secondary channel for the same facility bench was also stable and showed no signs of cutting. The beginning of the secondary ditch is constructed with a rock check dam as additional sediment control prior to entering Pond DP-1.

Ponds PP-1 and PP-2 collect partial runoff from the facility area. PP-1 is an in situ pond located just below the refuse bin and truck loadout. Pond PP-2 is semi-in situ with its main embankment appears stable but was snow covered at the time of the inspection. The spillway is a combination primary/emergency riser pipe spillway. No

Number of <u>Partial</u> Inspection this Fiscal Year: 4 Number of <u>Complete</u> Inspections this Fiscal Year: 2 issues were observed for either of the ponds.

B-Seam Dewating Pond pump was not operating during the time of the inspection. The B-Seam Dewatering Pond consists of series of 6 primary ponds that leads into an artificial wetland before reaching a final pond called the Last Chance Pond. At the time of the inspection, water had been previously pumped up to the 6th pond where it is then allowed to settle out. Water was not being pumped into the artificial wetlands. The water within the wetlands section settles out over time.. The Last Chance Pond was held minimal water and was snow covered. To the date of this inspection, no water has been discharged from the Last Chance Pond.

Ponds SS-1 and SS-2 collect runoff from the Slot Storage. Both ponds' primary spillways are trickle tubes. Spillway inlets were clear of debris with stable. Pond SS-1 held no water. Pond SS-2 held minimal amounts of water with no discharge. Both ponds were snow covered at the time of the inspection.

Ponds RR-1 and RRS-1 are located south of the railroad loop. Both ponds collect runoff and wash down water from the train loadout. Both ponds were stable. Both ponds were dry at the time of the inspection.

All refuse pile ponds were inspected. RP-1 collects runoff from the reclaimed Refuse Pile 1. RP-1 was dry and snow covered. The riser pipe primary spillway inlet and outlet were clear of any debris. Embankments were stable and no signs of instability. Pond RP-2/3 consists of three cells. Runoff from Refuse Pile 2/3/4 are directed into two upper cells. Once water fills to the spill way of these two upper cells, water then enters the larger third cell. The primary discharge is a riser pipe. The emergency spillway was armored with rip rap. The pond was dry at the time of the inspection. RP-4 was dry at the time of the inspection. Primary discharge is a riser pipe with a rip rap armored channel as its emergency spillway. Both spillways were clear. No issues with the embankments were noted. Pond RP-5 was also dry. RP-5 has a combination primary/emergency spillway and was armored with rip rap. Embankments were stable and vegetated.

The Raw Water Lagoon was inspected with no issues noted.





Pond DP-1.

Primary spillway for pond RP-1.

Number of <u>Partial</u> Inspection this Fiscal Year: 4 Number of <u>Complete</u> Inspections this Fiscal Year: 2

#### GENERAL MINE PLAN COMPLIANCE:

The rock dust tank along the access road to the rail road loop was being installed during the time of inspection. No issues were observed.



Rock dust tank being installed.

During the inspection, it was observed that the power plant train was being loaded with coal.

# PROCESSING WASTE/COAL MINE WASTE PILES – Rule $4.10\ and\ 4.11$

Drainage Control; Surface Stabilization; Placement:

Refuse was being stockpiled on the top of Refuse Pile 5A for the winter. Refuse will be spread and compacted once weather allows. It was mentioned that more refuse was being produced more than normal due to increase of clay found within the coal seam.

# **ENFORCEMENT ACTIONS/COMPLIANCE**

No enforcement actions are necessary as a result of this inspection.

# **AVAILABILITY OF RECORDS**

DRMS Permit Application w/Revisions   Cok   NPDES Permit Application w/Revisions   Ok   NPDES Records   3rd Qrt 2013	PERMIT RECORDS		HYDROLOGIC RECORDS				
Findings Document Insurance Certificate Insurance Certification Insurance Manual Hydrology Reports Insurance Approximate Insurance Aport Insurance Aport Insurance Insuran	DRMS Permit	Exp. 7/27/14		Exp. 2012 2			
Insurance Certificate Bond Document Bond Release N/A Documents/Findings Air Emission Permits County Special Use Permits County Special Use Permits Rio Blanco Co O0-43 UG Mining Landowner Notification Subsidence Monitoring Reports Subsidence Monitoring Data Rill & Gully Survey N/A  Vegetation Monitoring Data Specific Variance Approvals Annual Reclamation Reports DRMS/OSM Inspection Reports/Finforcement Actions (3 Years) Paransfers/Succession of Operator Temporary Cessation Notification Reclamation Cost Estimate CERTIFICATIONS Pond Certifications of Reports Rill Certifications for Excess Spoil or Underground Development Waste  - Quarterly Inspections Spring & Seep Monitoring N/A  MSHA Pond Inspections N/A  State Engineer's Pond Inspection Quarterly Pond Inspections Annual Hydrology Reports Obk  - Ground Water Monitoring Ok  - Surface Water Monitoring N/A  - Spring & Seep Monitoring N/A  - Mine Inflow Study - Water Consumption Records Ok Well Permits  - Water Consumption Records Ok Well Permits  - Water Consumption Records Ok Well Permits  - Water Consumption Records N/A  Blasting Publication N/A  Blasting Records (3 years) N/A  ATFE Explosives Permit July 1* 2015 Blasting Variances N/A  ADDITIONAL RECORDS  (specify)  - Compaction Testing - Final Certifications - Compaction Testing - Final Certifications - Ok  Compaction Testing - Final Certifications - Ok  COMMENTS: 1) Application is extended by county.	Permit Application w/Revisions	Ok	NPDES Records	3 <sup>rd</sup> Qrt 2013			
Bond Document Phased Bond Release N/A Phased Bond Release N/A Documents/Findings Air Emission Permits County Special Use Permits  UG Mining Landowner Notification Subsidence Monitoring Reports Rill & Gully Survey N/A  Vegetation Monitoring Data Rill & Gully Survey N/A  Vegetation Monitoring Data Specific Variance Approvals Annual Reclamation Reports Midterm Review Documents DRMS/OSM Inspection Reports/Enforcement Actions (3 Years) Transfers/Succession of Operator Temporary Cessation Notification Reclamation Cost Estimate CERTIFICATIONS Pond Certifications QK ADDITIONAL RECORDS Fill Certifications for Excess Spoil or Underground Development Waste Quarterly Inspections QK COMMENTS: 1) Application is extended by county.  MISHA Pond Inspections N/A N/A  MSHA Pond Inspections N/A N/A  State Engineer's Pond Inspections Quarterly Pond Inspections April Inspections Quarterly Pond Inspections Qhanual Hydrology Reports Quarterly Monitoring Quarterly Pond Inspections Qhanual Certifications Qh Souring Mater Monitoring Qh Souring Water Monitoring Qh Surface Water Moni	Findings Document	MT-6	Stormwater Management Plan	2012			
Phased Bond Release Documents/Findings Air Emission Permits County Special Use Permits UG Mining Landowner Notification Subsidence Monitoring Reports Subsidence Monitoring Data Rill & Gully Survey Vegetation Monitoring Data Annual Reclamation Reports Annual Reclamation Reports Annual Reclamation Cote Stainate Midterm Review Documents DRMS/OSM Inspection Reports/Enforcement Actions (3 Years) Transfers/Succession of Operator Temporary Cessation Notification Reclamation Cot Estimate MT-6 Annual Certifications for Excess Spoil or Underground Development Waste  - Quarterly Inspections Annual Hydrology Reports  Jarl Qrt 2013 Annual Hydrology Reports  Surface Water Monitoring Ok Annual Hydrology Reports Annual Hydrology Reports  Surface Water Monitoring Ok  Surface Water Monitoring Ok  Mine Water Discharge Monitoring N/A  Mine Water Discharge Monitoring N/A  Mine Inflow Study  Well Permits  Well Permits  Blasting RECORDS  Blasting RECORDS  Blasting Publication N/A  Blasting Publication N/A  Blasting Publication N/A  ATFE Explosives Permit July 1st 2015  Blasting Variances N/A  ADDITIONAL RECORDS  Specify)  ADDITIONAL RECORDS  Specify)  Compaction Testing Final Certifications Ok  ADDITIONAL RECORDS  Specify)	Insurance Certificate	Exp 12/30/13	SPCC Plan	Mar. 2008			
Documents/Findings Air Emission Permits County Special Use Permits County Sudy County Special Use Permits County County Sudy County County Special Part Monitoring County Special User Monitoring County Coun	Bond Document	\$5,711,474	MSHA Pond Inspections	N/A			
Air Emission Permits County Special Use Permits County Special Use Permits Rio Blanco Co 10-43  UG Mining Landowner Notification Subsidence Monitoring Reports Subsidence Monitoring Data Rill & Gully Survey N/A  Vegetation Monitoring Data Annual Reclamation Reports N/A  Annual Reclamation Reports N/A  Annual Reclamation Reports DRMS/OSM Inspection Reports/Enforcement Actions (3 Years) Transfers/Succession of Operator Temporary Cessation Notification Reclamation Cost Estimate CERTIFICATIONS Pond Certifications Annual Certifications for Excess Spoil or Underground Development Waste  Quarterly Pond Inspections Annual Hydrology Reports Annual Fall Reports Businer Action Solve Blasting Publication N/A ATFE Explosives Permit July 1st 2015 ATFENDANCE ATFENDANCE Blastin	Phased Bond Release	N/A		N/A			
County Special Use Permits    Rio Blanco Co	Documents/Findings		State Engineer's Pond Inspection				
UG Mining Landowner Notification Subsidence Monitoring Reports Subsidence Monitoring Data Rill & Gully Survey N/A  N/A  Notification Reports Annual Reclamation Reports Perporary Cessation Notification Reclamation Cost Estimate CERTIFICATIONS Pond Certifications Fill Certifications Fill Certifications Coal Processing Waste Banks Haul Road Certifications Compactor Tempoundments:  004  Surface Water Monitoring N/A  Surface Water Discharge N/A  Mine Water Discharge N/A  Well Permits  Ok  Well Permits  Ok  Well Permits  BLASTING RECORDS  Blasting Publication N/A  ATFE Explosives Permit July 1st 2015 Blasting Variances N/A  Pre-Blast Surveys N/A  ADDITIONAL RECORDS  (specify)  Coal Processing Waste Banks Access Road Certifications Ok  COMMENTS: 1) Application is extended by county.	Air Emission Permits	12RB802-1F	Quarterly Pond Inspections	3 <sup>rd</sup> Qrt 2013			
Subsidence Monitoring Reports Subsidence Monitoring Data Subsidence Divide Divide Data Mine Mater Discharge Monitoring Subsidence Divide Divide Divide Data Monitoring Subsidence Monitoring Data Subsidence Monitoring Data Subsidence Monitoring Subsidence Divide Monitoring Monitoring Subsidence Monitoring Data Subsidence Monitoring Subsidence Monitoring Monitoring Subsidence Monitoring Obk Will Print Data Subsidence Data Water Discharge Monitoring Subsidence Divide Divide Data Water Discharge Monitoring Subsidence Divide Divide Data Subsidence Data Subsidence Divide Data Subsidence Divide Data Subsidence Data Subsidence Data Subsidence Monitoring Subsidence Data Subsidence Divide Data Subsidence Data Sub	County Special Use Permits		Annual Hydrology Reports	2012			
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Rill & Gully Survey  N/A  Vegetation Monitoring Data N/A  Specific Variance Approvals N/A  Annual Reclamation Reports Monitoring N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/A	Subsidence Monitoring Reports	3 <sup>rd</sup> Qrt 2013	<ul> <li>Surface Water Monitoring</li> </ul>	Ok			
Rill & Gully Survey  N/A  Vegetation Monitoring Data Specific Variance Approvals Annual Reclamation Reports Annual Reclamation Reports 2012  Midterm Review Documents DRMS/OSM Inspection Reports/Enforcement Actions (3) Years) Transfers/Succession of Operator Temporary Cessation Notification Reclamation Cost Estimate MT-6 CERTIFICATIONS Pond Certifications Fill Certifications for Excess Spoil or Underground Development Waste Quarterly Inspections Coal Processing Waste Banks Haul Road Certifications Comments Final Certifications Ok  M/A  Policy Mine Water Discharge Monitoring  Mine Mater Discharge Monitoring  Mine Water Discharge Monitoring  Monitoring  Mine Mater Discharge Monitoring  Mine Mater Discharge  Monitoring  Monitoring  Molicy Study  Mel Permits  Ok  Well Permits  Ok  Well Permits  N/A  Blasting RecORDS  Blasting Publication  N/A  ATFE Explosives Permit July 1 <sup>81</sup> 2015  Blasting Variances  N/A  Pre-Blast Surveys  N/A  ADDITIONAL RECORDS  (specify)  Final Certification  Ok  ADDITIONAL RECORDS  (specify)  Final Certification  Ok  Coal Processing Waste Banks  Ard Qrt 2013  Final Certifications  Ok  COMMENTS: 1) Application is extended by county.	Subsidence Monitoring Data	3 <sup>rd</sup> Qrt 2013	<ul> <li>Spring &amp; Seep Monitoring</li> </ul>	N/A			
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<ul> <li>Quarterly Inspections</li> <li>Compaction Testing</li> <li>Final Certification</li> <li>RP-1 2011</li> <li>Coal Processing Waste Banks</li> <li>Haul Road Certifications</li> <li>Ok</li> <li>Access Road Certifications</li> <li>Ok</li> <li>COMMENTS: 1) Application is extended by county.</li> </ul>		OK	ADDITIONAL RECORDS				
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Coal Processing Waste Banks  Haul Road Certifications  Access Road Certifications  Ok  COMMENTS: 1) Application is extended by county.	<ul> <li>Compaction Testing</li> </ul>	3 <sup>rd</sup> Qrt 2013					
Haul Road Certifications Ok Access Road Certifications Ok COMMENTS: 1) Application is extended by county.	<ul> <li>Final Certification</li> </ul>						
Access Road Certifications Ok  COMMENTS: 1) Application is extended by county.	Coal Processing Waste Banks	3 <sup>rd</sup> Qrt 2013					
COMMENTS: 1) Application is extended by county.	Haul Road Certifications	Ok					
	Access Road Certifications	Ok					
	COMMENTS: 1) Application is extended by county.						

Number of <u>Partial</u> Inspection this Fiscal Year: 4 Number of <u>Complete</u> Inspections this Fiscal Year: 2