

[illegible]

Quarterly Pond Inspection Report

Somerset, Gunnison County, Colorado

Date: 6/29/2020Quarter: 2nd of 2020 Page 2 of 2

Location: West Elk Mine

Inspector: Edward Ogrodny

Pond Identification	FW-I	SG-I	RPE		NSSA	Deep well
Type of Pond	Fresh Water	Sediment	West Sediment	East Sediment	Sediment	Fault Water
Sediment Level %	NA	~15%	<5%	<5%	0	NA
Water Level (Approx.)	90%	<10%	~10%	~20%	Empty	~15%
Discharge at Time of Inspection (Y/N)	NA	N	N	N	N	N

[illegible]

MOUNTAIN COAL COMPANY, LLC

WEST ELK MINE

Quarterly Stockpile and/or Site Inspection Report Somerset, Gunnison County, Colorado

Date: 6/29/2020

Quarter: 2nd of 2020

Location: Mine Supply Storage

Inspector: Edward Ogrodny

Features	Problems?		Maintenance?		Repairs?		Comments
	Yes	No	Yes	No	Yes	No	
Erosion:							
Rills & Gullies		√		√		√	
Vegetation		√		√		√	
Other		√		√		√	
Drainage:							
Ditches & Channels		√		√		√	Maintenance ongoing as needed
Berms		√		√		√	
Linings		√		√		√	
Temporary Structures		√		√		√	
Culverts		√		√		√	
Other		√		√		√	
Structural:							
Sideslopes & Stability		√		√		√	
Cracks or settling		√		√		√	
Compaction	NA	NA	NA	NA	NA	NA	
Seepage		√		√		√	
Underdrains	NA	NA	NA	NA	NA	NA	
Monitoring - Survey	NA	NA	NA	NA	NA	NA	
Monitoring - Visual		√		√		√	
Other		√		√		√	
Reclamation:							
Seedbed Material		√		√		√	
Subsoil		√		√		√	
Vegetation		√		√		√	
Mulch		√		√		√	
Other		√		√		√	
General Compliance & Miscellaneous:							
Signs & Markers		√		√		√	
Spontaneous Combustion	NA	NA	NA	NA	NA	NA	
Roads		√		√		√	Maintenance ongoing as needed
Other		√		√		√	
<u>Additional Comments:</u> Maintenance of ditches, roads, and facilities ongoing as needed.							
<u>Action Required or Needed:</u>							

MOUNTAIN COAL COMPANY, LLC

WEST ELK MINE

**Quarterly Stockpile and/or Site Inspection Report
Somerset, Gunnison County, Colorado**

Date: 6/29/2020

Quarter: 2nd of 2020

Location: Main Topsoil Stockpile

Inspector: Edward Ogrodny

Features	Problems?		Maintenance?		Repairs?		Comments
	Yes	No	Yes	No	Yes	No	
Erosion:							
Rills & Gullies		√		√		√	
Vegetation		√		√		√	
Other		√		√		√	
Drainage:							
Ditches & Channels		√		√		√	Maintenance ongoing as needed
Berms		√		√		√	
Linings		√		√		√	
Temporary Structures		√		√		√	
Culverts		√		√		√	
Other		√		√		√	
Structural:							
Sideslopes & Stability		√		√		√	
Cracks or settling		√		√		√	
Compaction		√		√		√	
Seepage		√		√		√	
Underdrains	NA	NA	NA	NA	NA	NA	
Monitoring - Survey	NA	NA	NA	NA	NA	NA	
Monitoring - Visual		√		√		√	
Other		√		√		√	
Reclamation:							
Seedbed Material		√		√		√	
Subsoil		√		√		√	
Vegetation		√		√		√	
Mulch		√		√		√	
Other		√		√		√	
General Compliance & Miscellaneous:							
Signs & Markers		√		√		√	
Spontaneous Combustion	NA	NA	NA	NA	NA	NA	
Roads	NA	NA	NA	NA	NA	NA	
Other		√		√		√	
Additional Comments: No issues							
Action Required or Needed:							

MOUNTAIN COAL COMPANY, LLC

WEST ELK MINE

**Quarterly Stockpile and/or Site Inspection Report
Somerset, Gunnison County, Colorado**

Date: 6/29/2020

Quarter: 2nd of 2020

Location: General Mine Site

Inspector: Edward Ogrodny

Features	Problems?		Maintenance?		Repairs?		Comments
	Yes	No	Yes	No	Yes	No	
Erosion:							
Rills & Gullies		√		√		√	
Vegetation		√		√		√	
Other		√		√		√	
Drainage:							
Ditches & Channels		√		√		√	Maintenance ongoing as needed
Berms		√		√		√	
Linings		√		√		√	
Temporary Structures		√		√		√	
Culverts		√		√		√	
Other		√		√		√	
Structural:							
Sideslopes & Stability		√		√		√	
Cracks or settling		√		√		√	
Compaction		√		√		√	
Seepage		√		√		√	
Underdrains	NA	NA	NA	NA	NA	NA	
Monitoring - Survey		√	√			√	Some Monitoring mirrors need repaired
Monitoring - Visual		√		√		√	
Other		√		√		√	
Reclamation:							
Seedbed Material		√		√		√	
Subsoil		√		√		√	
Vegetation		√		√		√	
Mulch		√		√		√	
Other		√		√		√	
General Compliance & Miscellaneous:							
Signs & Markers		√		√		√	
Spontaneous Combustion		√		√		√	
z Roads		√		√		√	Maintenance ongoing as needed
Other		√		√		√	
Additional Comments: Maintenance of ditches, roads, and facilities ongoing as needed. Site Monitoring continues with monthly and quarterly surveys. Continue to monitor of slump area below MSB.							
Action Required or Needed: Survey mirrors that are broken, missing, or dirty need to be repaired.							

MOUNTAIN COAL COMPANY, LLC

WEST ELK MINE

**Quarterly Stockpile and/or Site Inspection Report
Somerset, Gunnison County, Colorado**

Date: 6/29/2020

Quarter: 2nd of 2020

Location: Material Storage Bench, Topsoil Stockpile #5

Inspector: Edward Ogrodny

Features	Problems?		Maintenance?		Repairs?		Comments
	Yes	No	Yes	No	Yes	No	
Erosion:							
Rills & Gullies		√		√		√	
Vegetation		√		√		√	
Other		√		√		√	
Drainage:							
Ditches & Channels		√		√		√	Maintenance ongoing as needed
Berms	√			√	√		Berm/barriers along north edge of the MSB bench repaired
Linings		√		√		√	
Temporary Structures		√		√		√	
Culverts		√		√		√	
Other		√		√		√	
Structural:							
Sideslopes & Stability	√			√	√		Continued monitoring of north-facing slump slope. See comments.
Cracks or settling	√			√	√		See comments.
Compaction		√		√		√	
Seepage		√		√		√	
Underdrains	NA	NA	NA	NA	NA	NA	
Monitoring - Survey	NA	NA	NA	NA	NA	NA	
Monitoring - Visual		√		√		√	Measurements conducted.
Other		√		√		√	
Reclamation:							
Seedbed Material		√		√		√	
Subsoil		√		√		√	
Vegetation		√		√		√	
Mulch		√		√		√	
Other		√		√		√	
General Compliance & Miscellaneous:							
Signs & Markers		√		√		√	
Spontaneous Combustion	NA	NA	NA	NA	NA	NA	
Roads	√			√	√		See comments.
Other		√		√		√	
Additional Comments: Some continued slumping pushing-up on road pavement at base of rock buttress and some cracks along the bench edge.							
Action Required or Needed: Plans being drawn-up for repairs.							

MOUNTAIN COAL COMPANY, LLC

WEST ELK MINE

**Quarterly Stockpile and/or Site Inspection Report
Somerset, Gunnison County, Colorado**

Date: 6/29/2020

Quarter: 2nd of 2020

Location: Refuse Pile Expansion (RPE) & RPE East (RPEE)

Inspector: Edward Ogrodny

Features	Problems?		Maintenance?		Repairs?		Comments
	Yes	No	Yes	No	Yes	No	
Erosion:							
Rills & Gullies		√		√		√	
Vegetation		√		√		√	
Other		√		√		√	
Drainage:							
Ditches & Channels		√		√		√	Maintenance ongoing as needed
Berms		√		√		√	
Linings		√		√		√	
Temporary Structures		√		√		√	
Culverts		√		√		√	
Other		√		√		√	
Structural:							
Sideslopes & Stability		√		√		√	Slope regrading completed. Area mulched and seeded.
Cracks or settling		√		√		√	
Compaction		√		√		√	Compaction tests done.
Seepage		√		√		√	
Underdrains		√		√		√	
Monitoring - Survey		√		√		√	
Monitoring - Visual		√		√		√	
Other		√		√		√	
Reclamation:							
Seedbed Material		√		√		√	
Subsoil		√		√		√	
Vegetation		√		√		√	
Mulch		√		√		√	
Other		√		√		√	
General Compliance & Miscellaneous:							
Signs & Markers		√		√		√	
Spontaneous Combustion		√		√		√	
Roads		√		√		√	Maintenance ongoing as needed
Other		√		√		√	
<u>Additional Comments:</u> Road conditions improved. Compaction tests done by Lambert and Associates. See attached reports.							
<u>Action Required or Needed:</u>							

MOUNTAIN COAL COMPANY, LLC

WEST ELK MINE

Quarterly Stockpile and/or Site Inspection Report Somerset, Gunnison County, Colorado

Date: 6/29/2020

Quarter: 2nd of 2020

Location: Sylvester Gulch Facilities Area

Inspector: Edward Ogrodny

Features	Problems?		Maintenance?		Repairs?		Comments
	Yes	No	Yes	No	Yes	No	
Erosion:							
Rills & Gullies		√		√		√	
Vegetation		√		√		√	
Other		√		√		√	
Drainage:							
Ditches & Channels		√		√		√	Maintenance ongoing as needed
Berms		√		√		√	
Linings		√		√		√	
Temporary Structures		√		√		√	
Culverts		√		√		√	
Other		√		√		√	
Structural:							
Sideslopes & Stability		√		√		√	
Cracks or settling		√		√		√	
Compaction		√		√		√	
Seepage		√		√		√	
Underdrains		√		√		√	
Monitoring - Survey		√		√		√	
Monitoring - Visual		√		√		√	
Other		√		√		√	
Reclamation:							
Seedbed Material		√		√		√	
Subsoil		√		√		√	
Vegetation		√		√		√	
Mulch		√		√		√	
Other		√		√		√	
General Compliance & Miscellaneous:							
Signs & Markers		√		√		√	
Spontaneous Combustion	NA	NA	NA	NA	NA	NA	
Roads		√		√		√	Maintenance ongoing as needed
Other		√		√		√	
<u>Additional Comments:</u> Maintenance of ditches, roads, and facilities ongoing as needed.							
<u>Action Required or Needed:</u>							

MOUNTAIN COAL COMPANY, LLC

WEST ELK MINE

Quarterly Stockpile and/or Site Inspection Report Somerset, Gunnison County, Colorado

Date: 6/29/2020

Quarter: 2nd of 2020

Location: North Soils Storage Area (NSSA)

Inspector: Edward Ogrodny

Features	Problems?		Maintenance?		Repairs?		Comments
	Yes	No	Yes	No	Yes	No	
Erosion:							
Rills & Gullies		√		√		√	
Vegetation		√		√		√	
Other		√		√		√	
Drainage:							
Ditches & Channels		√		√		√	Maintenance ongoing as needed
Berms		√		√		√	
Linings		√		√		√	
Temporary Structures		√		√		√	
Culverts		√		√		√	
Other		√		√		√	
Structural:							
Sideslopes & Stability		√		√		√	
Cracks or settling		√		√		√	
Compaction		√		√		√	
Seepage		√		√		√	
Underdrains	NA	NA	NA	NA	NA	NA	
Monitoring - Survey	NA	NA	NA	NA	NA	NA	
Monitoring - Visual		√		√		√	
Other		√		√		√	
Reclamation:							
Seedbed Material		√		√		√	
Subsoil		√		√		√	
Vegetation		√		√		√	
Mulch		√		√		√	
Other		√		√		√	
General Compliance & Miscellaneous:							
Signs & Markers		√		√		√	
Spontaneous Combustion	NA	NA	NA	NA	NA	NA	
Roads		√		√		√	Maintenance ongoing as needed
Other		√		√		√	
<u>Additional Comments:</u> Maintenance of ditches, roads, and facilities ongoing as needed.							
<u>Action Required or Needed:</u>							

MOUNTAIN COAL COMPANY, LLC

WEST ELK MINE

Quarterly Stockpile and/or Site Inspection Report Somerset, Gunnison County, Colorado

Date: 6/29/2020

Quarter: 2nd of 2020

Location: Lower Refuse Pile

Inspector: Edward Ogrodny

Features	Problems?		Maintenance?		Repairs?		Comments
	Yes	No	Yes	No	Yes	No	
Erosion:							
Rills & Gullies		√		√		√	
Vegetation		√		√		√	
Other		√		√		√	
Drainage:							
Ditches & Channels		√		√		√	Maintenance ongoing as needed
Berms		√		√		√	
Linings		√		√		√	
Temporary Structures		√		√		√	
Culverts		√		√		√	
Other		√		√		√	
Structural:							
Sideslopes & Stability		√		√		√	
Cracks or settling		√		√		√	
Compaction		√		√		√	
Seepage		√		√		√	
Underdrains		√		√		√	
Monitoring - Survey		√		√		√	
Monitoring - Visual		√		√		√	
Other		√		√		√	
Reclamation:							
Seedbed Material		√		√		√	
Subsoil		√		√		√	
Vegetation		√		√		√	
Mulch		√		√		√	
Other		√		√		√	
General Compliance & Miscellaneous:							
Signs & Markers		√		√		√	
Spontaneous Combustion		√		√		√	
Roads		√		√		√	Maintenance ongoing as needed
Other		√		√		√	
<u>Additional Comments:</u> Maintenance of ditches, roads, and facilities ongoing as needed.							
<u>Action Required or Needed:</u>							

MOUNTAIN COAL COMPANY, LLC

WEST ELK MINE

Quarterly Stockpile and/or Site Inspection Report Somerset, Gunnison County, Colorado

Date: 6/29/2020

Quarter: 2nd of 2020

Location: Upper Sly Gulch Rd & E Seam MVBs

Inspector: Edward Ogrodny

Features	Problems?		Maintenance?		Repairs?		Comments
	Yes	No	Yes	No	Yes	No	
Erosion:							
Rills & Gullies		√		√		√	
Vegetation		√		√		√	
Other		√		√		√	
Drainage:							
Ditches & Channels		√		√		√	Maintenance ongoing as needed
Berms		√		√		√	
Linings		√		√		√	
Temporary Structures		√		√		√	
Culverts		√		√		√	
Other		√		√		√	
Structural:							
Sideslopes & Stability							
Cracks or settling		√		√		√	
Compaction		√		√		√	
Seepage		√		√		√	
Underdrains	NA	NA	NA	NA	NA	NA	
Monitoring - Survey		√		√		√	
Monitoring - Visual		√		√		√	
Other		√		√		√	
Reclamation:							
Seedbed Material		√		√		√	
Subsoil		√		√		√	
Vegetation		√		√		√	
Mulch		√		√		√	
Other		√		√		√	
General Compliance & Miscellaneous:							
Signs & Markers		√		√		√	
Spontaneous Combustion	NA	NA	NA	NA	NA	NA	
Roads		√		√		√	Maintenance ongoing as needed
Other		√		√		√	
Additional Comments: Maintenance of ditches, roads, and facilities ongoing as needed.							
Action Required or Needed:							

MOUNTAIN COAL COMPANY, LLC

WEST ELK MINE

Quarterly Stockpile and/or Site Inspection Report Somerset, Gunnison County, Colorado

Date: 6/29/2020

Quarter: 2nd of 2020

Deer Creek Shaft & Monument Dam Borrow

Location: Area

Inspector: Edward Ogrodny

Features	Problems?		Maintenance?		Repairs?		Comments
	Yes	No	Yes	No	Yes	No	
Erosion:							
Rills & Gullies		√		√		√	
Vegetation		√		√		√	
Other		√		√		√	
Drainage:							
Ditches & Channels		√		√		√	Maintenance ongoing as needed
Berms		√		√		√	
Linings		√		√		√	
Temporary Structures		√		√		√	
Culverts		√		√		√	
Other		√		√		√	
Structural:							
Sideslopes & Stability		√		√		√	
Cracks or settling		√		√		√	
Compaction		√		√		√	
Seepage							
Underdrains	NA	NA	NA	NA	NA	NA	
Monitoring - Survey		√		√		√	
Monitoring - Visual		√		√		√	
Other		√		√		√	
Reclamation:							
Seedbed Material		√		√		√	
Subsoil		√		√		√	
Vegetation		√		√		√	
Mulch		√		√		√	
Other		√		√		√	
General Compliance & Miscellaneous:							
Signs & Markers		√		√		√	
Spontaneous Combustion	NA	NA	NA	NA	NA	NA	
Roads		√		√		√	Maintenance ongoing as needed
Other		√		√		√	
<u>Additional Comments:</u> Maintenance of ditches, roads, and facilities ongoing as needed.							
<u>Action Required or Needed:</u>							

REFUSE PILE EXPANSION EAST CERTIFICATION

I, John C. Poulos, Colorado Registered P.E. No. 46025, hereby certify to the best of my knowledge and belief, the preparation of the Refuse Pile Expansion East (RPEE), including topsoil and subsoil salvage, underdrain and drainage ditch construction, and placement and compaction of fill lifts, was completed during the 2nd Quarter of 2020 in accordance with the approved designs for the Refuse Pile Expansion East (RPEE), see the attached compaction test results.

John C. Poulos, Colorado P.E. No. 46025



RELATIVE COMPACTION TEST RESULTS

PROJECT: West Elk Mine

PROJECT NUMBER: M19006MT

DATE: 6/11/2020

LOCATION: Somerset, CO

ENGINEERING TECHNICIAN: Derrick Hayes

CLIENT: West Elk Mine

NUCLEAR GAUGE USED: 16

	TEST LOCATION	DEPTH OR ELEVATION	PROBE DEPTH (IN)	LABORATORY PROCTOR DENSITY (PCF)	OPTIMUM MOISTURE CONTENT (%)	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	SOIL TYPE
123	RPEE-01	6850.7	8"	90.5	12.5	87.9	13.0	97	Coal gob, black
124	RPEE-02	6843.7	8"	90.5	12.5	88.6	9.8	98	"
125	RPEE-03	6839.3	8"	90.5	12.5	90.5	11.0	100	"
126	RPEE-04	6843.0	8"	90.5	12.5	91.6	12.3	100	"
127	RPEE-05	6829.6	8"	90.5	12.5	88.2	11.7	97	"
128	RPEE-06	6845.2	8"	90.5	12.5	89.3	13.6	99	"
129	RPEE-07	6855.3	8"	90.5	12.5	89.8	11.0	99	"
130	RPEE-08	6865.3	8"	90.5	12.5	88.0	11.7	97	"

REMARKS: The test results indicate only the density and moisture content for the location and elevation tested only.

Lambert and Associates

PROJECT NUMBER: M19006MT

RELATIVE COMPACTION TEST RESULTS

PROJECT: West Elk Mine

PROJECT NUMBER: M19006MT

DATE: 6/11/2020

LOCATION: Somerset, CO

ENGINEERING TECHNICIAN: Derrick Hayes

CLIENT: West Elk Mine

NUCLEAR GAUGE USED: 16

	TEST LOCATION	DEPTH OR ELEVATION	PROBE DEPTH (IN)	LABORATORY PROCTOR DENSITY (PCF)	OPTIMUM MOISTURE CONTENT (%)	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	SOIL TYPE
131	RPEE-09	6843.92	8"	90.5	12.5	92.5	12.3	100	Coal gob, black
132	RPEE-10	6828.2	8"	90.5	12.5	88.0	13.0	97	"
133	RPEE-11	6841.4	8"	90.5	12.5	89.9	13.6	99	"
134	RPEE-12	6848.2	8"	90.5	12.5	89.5	11.7	99	"
135	RPEE-13	6861.7	8"	90.5	12.5	90.9	13.0	100	"
136	RPEE-14	6846.7	8"	90.5	12.5	86.4	17.6	95	"

REMARKS: The test results indicate only the density and moisture content for the location and elevation tested only.

Lambert and Associates

PROJECT NUMBER: M19006MT

RELATIVE COMPACTION TEST RESULTS

PROJECT: West Elk Mine

PROJECT NUMBER: M19006MT

DATE: 6/4/2020

LOCATION: Somerset, CO

ENGINEERING TECHNICIAN: Derrick Hayes

CLIENT: West Elk Mine

NUCLEAR GAUGE USED: 16

	TEST LOCATION	DEPTH OR ELEVATION	PROBE DEPTH (IN)	LABORATORY PROCTOR DENSITY (PCF)	OPTIMUM MOISTURE CONTENT (%)	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	SOIL TYPE
113	RPEE-01	6838.3	8"	90.5	12.5	90.4	13.0	100	Coal gob, black
114	RPEE-02	6850.6	8"	90.5	12.5	89.1	11.0	98	"
115	RPEE-03	6861.7	8"	90.5	12.5	91.3	13.6	100	"
116	RPEE-04	6836.9	8"	90.5	12.5	87.3	11.7	96	"
117	RPEE-05	6837.1	8"	90.5	12.5	88.8	11.0	98	"
118	RPEE-06	6851.7	8"	90.5	12.5	88.4	12.3	98	"
119	RPEE-07	6862.4	8"	90.5	12.5	88.0	12.0	97	"
120	RPEE-08	6826.1	8"	90.5	12.5	87.6	13.0	97	"

REMARKS: The test results indicate only the density and moisture content for the location and elevation tested only.

Lambert and Associates

PROJECT NUMBER: M19006MT

RELATIVE COMPACTION TEST RESULTS

PROJECT: West Elk Mine

PROJECT NUMBER: M19006MT

DATE: 6/4/2020

LOCATION: Somerset, CO

ENGINEERING TECHNICIAN: Derrick Hayes

CLIENT: West Elk Mine

NUCLEAR GAUGE USED: 16

	TEST LOCATION	DEPTH OR ELEVATION	PROBE DEPTH (IN)	LABORATORY PROCTOR DENSITY (PCF)	OPTIMUM MOISTURE CONTENT (%)	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	SOIL TYPE
121	RPEE-09	6842.6	8"	90.5	12.5	89.5	11.7	99	Coal gob, black
122	RPEE-10	6960.0	8"	90.5	12.5	90.1	11.0	100	"

REMARKS: The test results indicate only the density and moisture content for the location and elevation tested only.

Lambert and Associates

PROJECT NUMBER: M19006MT

RELATIVE COMPACTION TEST RESULTS

PROJECT: West Elk Mine

PROJECT NUMBER: M19006MT

DATE: 5/28/2020

LOCATION: Somerset, CO

ENGINEERING TECHNICIAN: Derrick Hayes

CLIENT: West Elk Mine

NUCLEAR GAUGE USED: 16

	TEST LOCATION	DEPTH OR ELEVATION	PROBE DEPTH (IN)	LABORATORY PROCTOR DENSITY (PCF)	OPTIMUM MOISTURE CONTENT (%)	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	SOIL TYPE
105	RPEE-01		8"	90.5	12.5	88.9	14.2	98	Coal gob, black
106	RPEE-02		8"	90.5	12.5	88.6	14.9	98	"
107	RPEE-03		8"	90.5	12.5	88.6	11.0	98	"
108	RPEE-04		8"	90.5	12.5	88.7	11.7	98	"
109	RPEE-05		8"	90.5	12.5	91.2	12.3	100	"
110	RPEE-06		8"	90.5	12.5	91.2	11.7	100	"
111	RPEE-07		8"	90.5	12.5	87.2	11.0	96	"
112	RPEE-08		8"	90.5	12.5	91.0	13.0	100	"

REMARKS: The test results indicate only the density and moisture content for the location and elevation tested only.

Lambert and Associates

PROJECT NUMBER: M19006MT

RELATIVE COMPACTION TEST RESULTS

PROJECT: West Elk Mine

PROJECT NUMBER: M19006MT

DATE: 5/21/2020

LOCATION: Somerset, CO

ENGINEERING TECHNICIAN: Derrick Hayes

CLIENT: West Elk Mine

NUCLEAR GAUGE USED: 16

	TEST LOCATION	DEPTH OR ELEVATION	PROBE DEPTH (IN)	LABORATORY PROCTOR DENSITY (PCF)	OPTIMUM MOISTURE CONTENT (%)	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	SOIL TYPE
98	RPEE-09	6823.6	8"	90.5	12.5	89.9	14.9	99	Coal gob, black
99	RPEE-10	6838.4	8"	90.5	12.5	89.4	12.3	99	"
100	RPEE-11	6833.5	8"	90.5	12.5	91.0	13.0	100	"
101	RPEE-12	6825.5	8"	90.5	12.5	89.6	11.0	99	"
102	RPEE-13	6821.7	8"	90.5	12.5	89.2	12.3	99	"
103	RPEE-14	6833.9	8"	90.5	12.5	90.7	9.8	100	"
104	RPEE-15	6842.7	8"	90.5	12.5	90.8	13.6	100	"

REMARKS: The test results indicate only the density and moisture content for the location and elevation tested only.

Lambert and Associates

PROJECT NUMBER: M19006MT

RELATIVE COMPACTION TEST RESULTS

PROJECT: West Elk Mine

PROJECT NUMBER: M19006MT

DATE: 5/21/2020

LOCATION: Somerset, CO

ENGINEERING TECHNICIAN: Derrick Hayes

CLIENT: West Elk Mine

NUCLEAR GAUGE USED: 16

	TEST LOCATION	DEPTH OR ELEVATION	PROBE DEPTH (IN)	LABORATORY PROCTOR DENSITY (PCF)	OPTIMUM MOISTURE CONTENT (%)	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	SOIL TYPE
90	RPEE-01	6844.6	8"	90.5	12.5	87.9	13.6	97	Coal gob, black
91	RPEE-02	6837.6	8"	90.5	12.5	90.9	11.7	100	"
92	RPEE-03	6818.4	8"	90.5	12.5	90.6	12.3	100	"
93	RPEE-04	6844.5	8"	90.5	12.5	90.3	14.2	100	"
94	RPEE-05	6837.3	8"	90.5	12.5	89.4	15.6	99	"
95	RPEE-06	6821.8	8"	90.5	12.5	91.7	11.0	100	"
96	RPEE-07	6839.4	8"	90.5	12.5	89.2	11.7	99	"
97	RPEE-08	6831.9	8"	90.5	12.5	90.4	13.6	100	"

REMARKS: The test results indicate only the density and moisture content for the location and elevation tested only.

Lambert and Associates

PROJECT NUMBER: M19006MT

RELATIVE COMPACTION TEST RESULTS

PROJECT: West Elk Mine

PROJECT NUMBER: M19006MT

DATE: 5/15/2020

LOCATION: Somerset, CO

ENGINEERING TECHNICIAN: Derrick Hayes

CLIENT: West Elk Mine

NUCLEAR GAUGE USED: 16

	TEST LOCATION	DEPTH OR ELEVATION	PROBE DEPTH (IN)	LABORATORY PROCTOR DENSITY (PCF)	OPTIMUM MOISTURE CONTENT (%)	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	SOIL TYPE
78	RPEE-01	6781.0	8"	90.5	12.5	89.5	14.9	99	Coal gob, black
79	RPEE-02	6762.0	8"	90.5	12.5	95.3	15.6	100	Coal gob, black
80	RPEE-03	6768.0	8"	90.5	12.5	94.7	11.0	100	Coal gob, black
81	RPEE-04	6766.0	8"	90.5	12.5	88.9	12.3	98	Coal gob, black
82	RPEE-05	6775.0	8"	90.5	12.5	88.6	13.0	98	Coal gob, black
83	RPEE-06	6776.0	8"	90.5	12.5	88.3	11.0	98	Coal gob, black
84	RPEE-07	6754.0	8"	90.5	12.5	89.0	12.3	98	Coal gob, black
85	RPEE-08	6787.0	8"	90.5	12.5	96.1	16.3	100	Coal gob, black

REMARKS: The test results indicate only the density and moisture content for the location and elevation tested only.

Lambert and Associates

PROJECT NUMBER: M19006MT

RELATIVE COMPACTION TEST RESULTS

PROJECT: West Elk Mine

PROJECT NUMBER: M19006MT

DATE: 5/15/2020

LOCATION: Somerset, CO

ENGINEERING TECHNICIAN: Derrick Hayes

CLIENT: West Elk Mine

NUCLEAR GAUGE USED: 16

	TEST LOCATION	DEPTH OR ELEVATION	PROBE DEPTH (IN)	LABORATORY PROCTOR DENSITY (PCF)	OPTIMUM MOISTURE CONTENT (%)	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	SOIL TYPE
86	RPEE-09	6788.0	8"	90.5	12.5	88.4	14.9	98	Coal gob, black
87	RPEE-10	6780.0	8"	90.5	12.5	90.8	15.6	100	Coal gob, black
88	RPEE-11	6753.0	8"	90.5	12.5	82.7	12.3	97	Coal gob, black
89	RPEE-12	6758.0	8"	90.5	12.5	88.6	13.0	98	Coal gob, black

REMARKS: The test results indicate only the density and moisture content for the location and elevation tested only.

Lambert and Associates

PROJECT NUMBER: M19006MT

RELATIVE COMPACTION TEST RESULTS

PROJECT: West Elk Mine

PROJECT NUMBER: M19006MT

DATE: 5/6/2020

LOCATION: Somerset, CO

ENGINEERING TECHNICIAN: Derrick Hayes

CLIENT: West Elk Mine

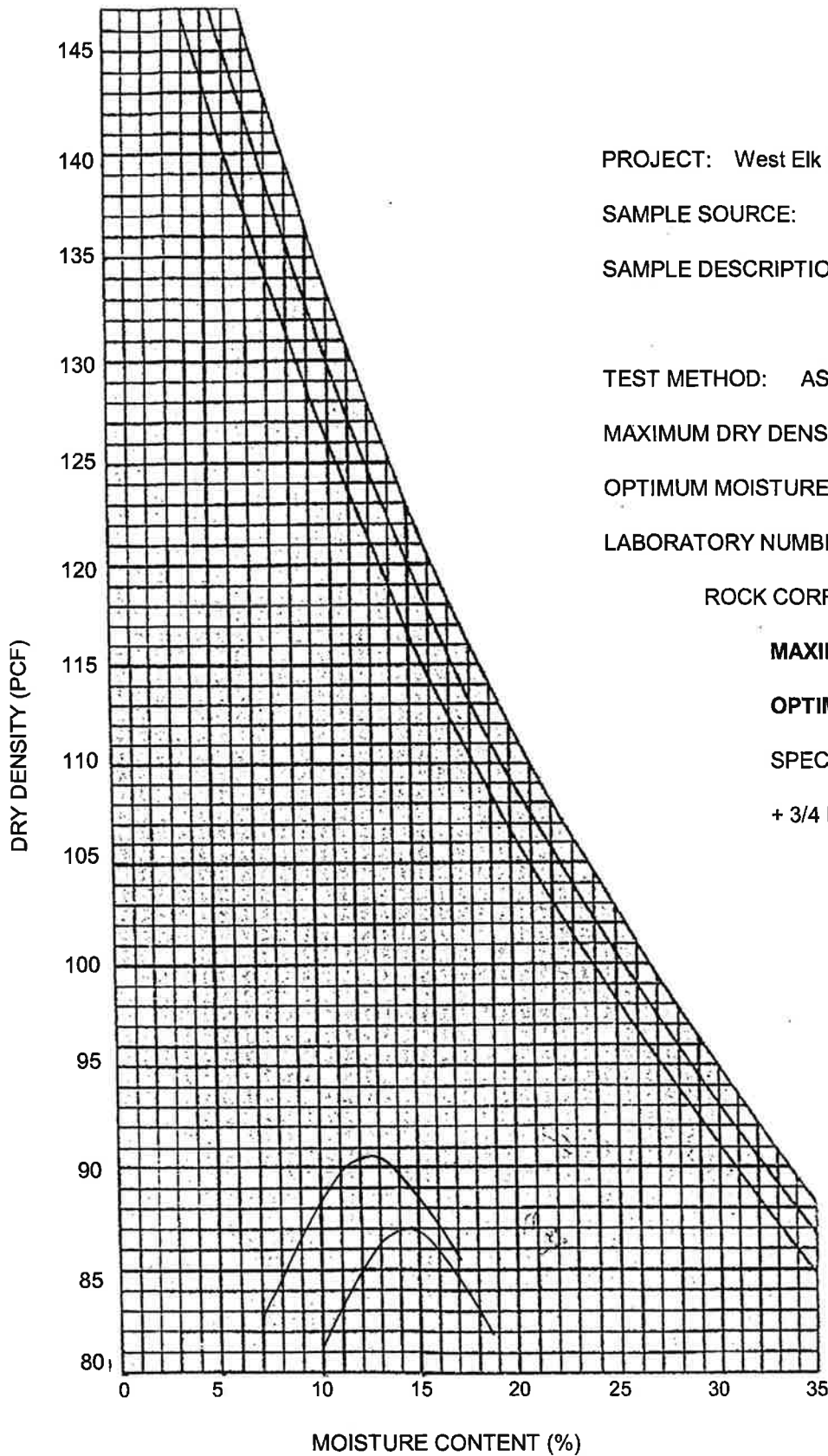
NUCLEAR GAUGE USED: 16

	TEST LOCATION	DEPTH OR ELEVATION	PROBE DEPTH (IN)	LABORATORY PROCTOR DENSITY (PCF)	OPTIMUM MOISTURE CONTENT (%)	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	SOIL TYPE
74	RPE-01	6759.0	8"	90.5	12.5	89.4	16.3	99	Coal gob, black
75	RPE-02	6770.0	8"	90.5	12.5	97.4	14.9	100	Coal gob, black
76	RPE-03	6775.0	8"	90.5	12.5	90.4	13.6	100	Coal gob, black
77	RPE-04	6785.0	8"	90.5	12.5	93.7	17.6	100	Coal gob, black

REMARKS: The test results indicate only the density and moisture content for the location and elevation tested only.

Lambert and Associates

PROJECT NUMBER: M19006MT



PROJECT: West Elk Mine

SAMPLE SOURCE: RPEE

SAMPLE DESCRIPTION: Coal gob, black

TEST METHOD: ASTM D698C

MAXIMUM DRY DENSITY: 87 pcf

OPTIMUM MOISTURE CONTENT: 14.5%

LABORATORY NUMBER: 3977

ROCK CORRECTION:

MAXIMUM DRY DENSITY: 90.5 pcf

OPTIMUM MOISTURE CONTENT: 12.5%

SPECIFIC GRAVITY: 1.75

+ 3/4 INCH = 17.7 % TOTAL WEIGHT

Lambert and Associates

Project No. M19006MT

Date: May 13, 2020

Figure: 1