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Mountain Coal Company, LLC
A subsidiary of Arch Resources, Inc.
West Elk Mine
5174 Highway 133
Somerset, CO 81434

December 02, 2021

Mr. Leigh D. Simmons
Colorado Division of Reclamation, Mining and Safety
Office of Mined Land Reclamation
1313 Sherman Street, Room 215
Denver, Colorado 80203

**Re: Mountain Coal Company, LLC, West Elk Mine; Permit No. C-1980-007;
Minor Revision No. MR-457: Updated Exhibit 12 – 2021 P&A Reports**

Dear Mr. Simmons:

Mountain Coal Company, LLC submits this letter and the attached Plugging and Abandonment reports completed this year, as well as past information on the Lick Creek portal investigations to include in the permit record. There were no new MVBs drilled this year. Please add these reports, along with the updated Exhibit 12 Table of Contents, to Exhibit 12.

Please contact me by telephone or by e-mail should you have questions regarding this submittal.

Sincerely,

A handwritten signature in cursive script that reads "Nicole Poulos".

Nicole Poulos,
Environmental Engineer

cc: Bob Munz – MCC
Jessica Wilczek - MCC
Cathie Pagano - Gunnison Co.

2021

MVB Completions

None

MVB Plugging & Abandonment
Reports

10LC-01 (MR-457)

10LC-02

14LC-01 (MR-457)

14LC-02

14LC-03

14LC-04

SS1-1

SS1-2

SS1-3

SS1-4

SS1-5

SS1-7

**Exhibit 12 - Borehole Logs, and Monitoring Well/MVB Construction and
Plugging & Abandonment Completions**

Table of Contents

A. Exhibit 12 - Summary of Well Completion Data (spreadsheet)

B. Monitoring Well As-Built

- 1) RPE – 7
- 2) GP – 6
- 3) GP – 7
- 4) So. W – 1
- 5) So. W – 3
- 6) RAV – 46
- 7) 96-2-2 (BB)
- 8) 96-15-1 (FF)
- 9) 96-27-1 (S)
- 10) JMB – 12

C. Well Completion and Location Reports (Rev. Oct., 1989)

Table 1 – Well Descriptions, Mt. Gunnison No. 1 Mine

D. Well Completion Reports

- 1) SOM 38-H-1
- 2) SOM 38-H-2
- 3) SOM 45-H-1
- 4) SOM 45-H-2
- 5) SOM 76
- 6) SOM 80H
- 7) B-16
- 8) B-32
- 9) B-27-2 (Formerly B-32-W)

**Table 2 – West Elk Coal
Lower Waste Pile Soil Borings and Piezometer
Installation Summarization Sheet**

E. Coal Exploration Drill Hole Abandonment Report

**F. Letter Dated September 15, 1981 to MLR from ARCO Coal Company, for a
well completion for WR-2 and WR-3**

G. Well Completion Reports

- 1) SOM 1-H
- 2) SOM 2-H
- 3) SOM 13-H
- 4) SOM 16-H
- 5) SOM 22-H-1
- 6) SOM 23 H-3

H. Coal Exploration Drill Hole Completion Report for SOM 128-H

I. Coal Exploration Drill Hole Abandonment and Completion Report for SOM 127-H and SOM 129-H, respectively

J. Coal Exploration Drill Hole Completion Report – Subsidence Monitoring Panel

K. Coal Exploration Final Reclamation Report for Drillholes SOM 127-H and C-72H

L. Letter of Clarification dated November 4, 1988, to CMLRD from ARCO for holes, SOM C-72-H and SOM C-72-A, SOM C-72-B, and SOM 127-H

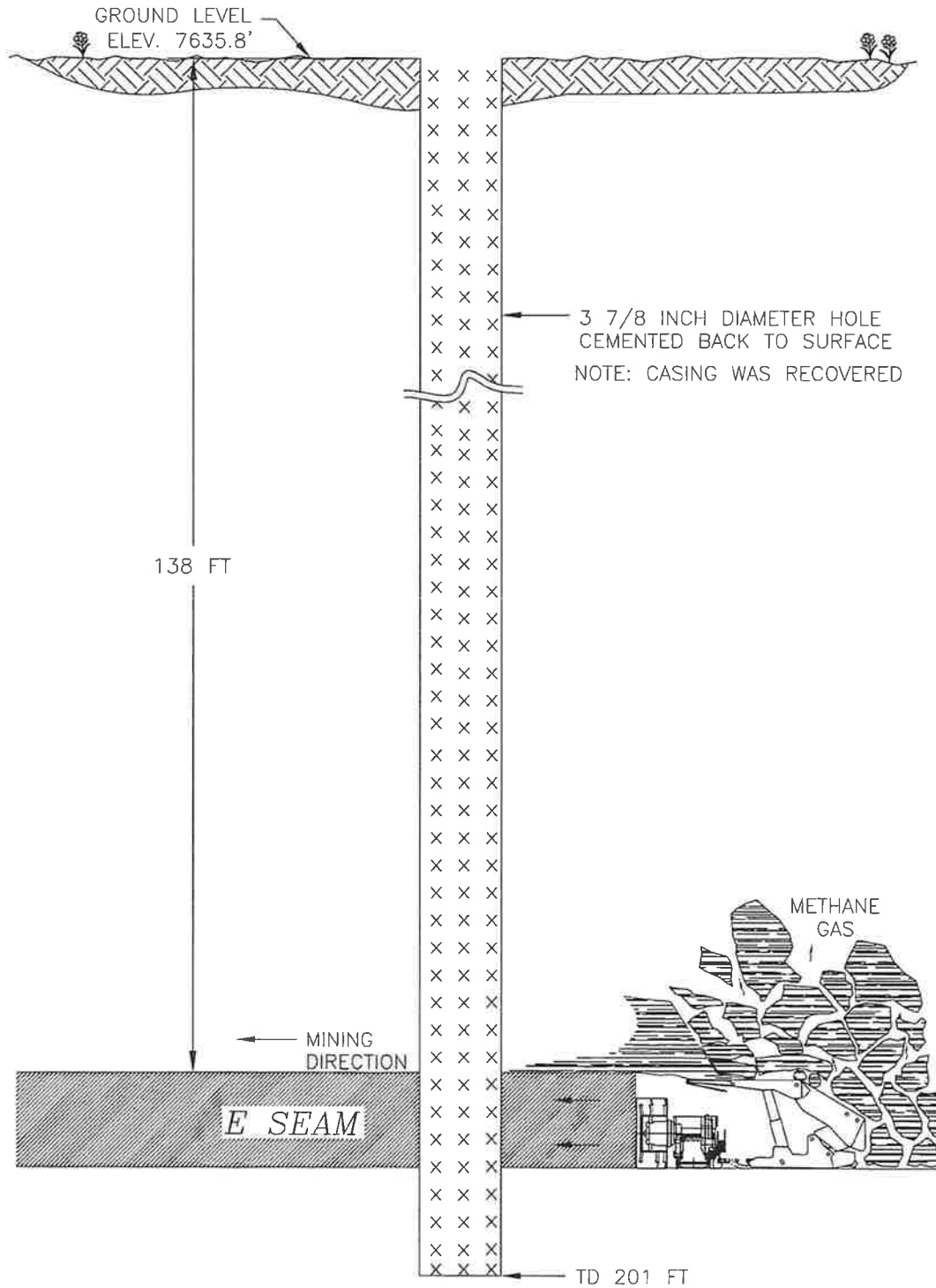
M. Certification of Lithologic Logs per Rule 2.10 dated January 3, 1995, by Mark Scanlon for the following:

- 1) SOM 6
- 2) SOM 17
- 3) SOM 35 & 35A
- 4) SOM 36
- 5) SOM 38
- 6) SOM 41
- 7) SOM 42
- 8) SOM 47
- 9) SOM 65

N. Completion Reports Monitoring Wells 3-11-1, Upper Dry Fork Alluvial, Lower Dry Fork Alluvial, SOM 3-B, and SOM 3-E

O. Plugging & Abandonment and MVB Completion Reports for 2008 through 2021 (MR-420, MR-427, MR-431, MR-440, MR-454 and MR-457)

10LC-01 COMPLETION DIAGRAM



THIS DRAWING WAS PREPARED UNDER
MY DIRECT SUPERVISION & REPRESENTS
INFORMATION THAT IS ACCURATE TO
THE BEST OF MY KNOWLEDGE

EXPLORATION DRILL HOLE SUMMARY

Drill Hole No. 10LC-01 Date/Time Started 6/7/10 Completed 6/9/10
 Project Name 2010 BURN DEFINITION Lease/Exploration License Holder MCC
 State COLORADO County BURNHOLSON Location T R Sec FEL FSL
 Surveyed/GPS Coordinates (system) 37637.3N 144552.5E
 Surface Elevation 7635.8 Casing Elevation Surveyor and Date WEST ELK LAND
 Depth To Bedrock Total Depth 201.0 Drill Tools To Top of Casing Distance
 Drilling Contractor LANCASTER DRILLING Driller ALLEN BACKETT
 Logging Contractor Jet WEST GEOPHYSICAL Logger AL HENDERSON
 Dirt Work Contractor Operator
 Geological Contractor AOKLAND Geologist W.A. KOONSZ
 Reclamation Contractor Operator
 Reclamation Completed 6/9/10
 Core Stored Where and When CORE SHED @ WEST ELK 6/9/10
 Coal and Rock Sample Reserves Stored Where and When

DRILLING METHODS, MEDIUM, CHEMICALS				
Method/Medium	From	To	Bit Size	Bit Type
Auger				
Rotary-air				
-foam				
-mud				
Reverse Circ.-air				
-foam				
-mud				
Core-air				
-foam				
-mud	0	201		

AVAILABLE LOGS			
	Scale	From	To
Lithologic-Cuttings			
Core	0.1'	0	201
Geophysical-Gamma		0	201
LS Density			
BULK DENS.		0	201
HR Density			
SP Resistivity			
Focused Resistivity			
Caliper		0	1
Sonic			
Neutron			
Deviation			
Microlog			
Vert. Seismic Profile			
ASCII file			

SURFACE AND HOLE CASING				
From	To	Type	Size	Pulled/left?

CORE INTERVALS AND RECOVERY					
Run	From	To	Cored	Rec.	%
20 RUNS	SEE LITH LOG				

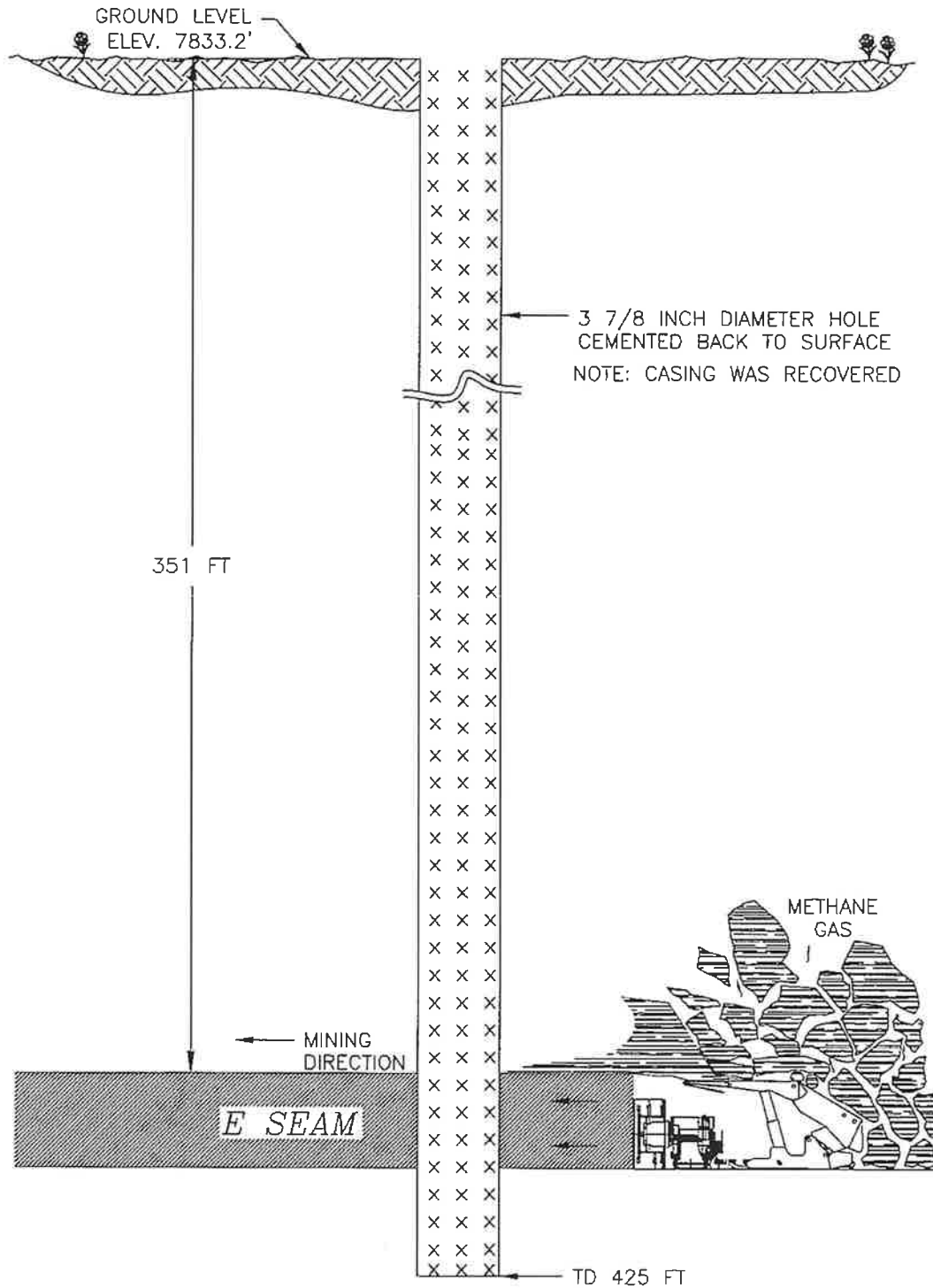
STRATIGRAPHIC INFORMATION					
Coal Seam	From	To	Thick	Obdn	Intbd
ES. 1m	132.6	153.1	15.5'		
DS. 1m	170.8	178.8			

WATER OR GAS OBSERVED				
Fluid	From	To	Flow	Sampled?
Static Water Level-				
Time Between Stop Drilling and Measurement-				

FINAL DRILL HOLE DISPOSITION	
Coals not cored, coals not probed	
Coals cored, coals not probed	✓
Coals not cored, coals probed	
Coals cored, coals probed	
Plugged and Abandoned	
Piezometer	
Water Sampling Well	
Piezometer and Water Sampling Well	
Water Well	
Methane-production well	
Methane-stimulation well	
Waste Water Injection Well	
Drill Hole Left Open	

Comments HOLE P & A

10LC-02 COMPLETION DIAGRAM



THIS DRAWING WAS PREPARED UNDER
MY DIRECT SUPERVISION & REPRESENTS
INFORMATION THAT IS ACCURATE TO
THE BEST OF MY KNOWLEDGE

EXPLORATION DRILL HOLE SUMMARY

Drill Hole No. 10LC-02 Date/Time Started 6/10/10 Completed 6/13/10
 Project Name 2010 BURN REFINERY Lease/Exploration License Holder MCC
 State Colorado County Gunnison Location T R Sec FEL FSL
 Surveyed/GPS Coordinates (system) 377106.8N 1444434.0E
 Surface Elevation 7833.2 Casing Elevation _____ Surveyor and Date _____
 Depth To Bedrock _____ Total Depth 425.0 Drill Table To Top of Casing Distance _____
 Drilling Contractor Lancaster Drilling Driller Allen Hackett
 Logging Contractor Jet West Logger Al Henderson
 Dirt Work Contractor _____ Operator _____
 Geological Contractor _____ Geologist _____
 Reclamation Contractor _____ Operator _____
 Reclamation Completed 6/13/10
 Core Stored Where and When Core shed @ West Elm 6/13/10
 Coal and Rock Sample Reserves Stored Where and When _____

DRILLING METHODS, MEDIUM, CHEMICALS				
Method/Medium	From	To	Bit Size	Bit Type
Auger				
Rotary-air				
-foam				
-mud				
Reverse Circ.-air				
-foam				
-mud				
Core-air				
-foam				
-mud	<u>0</u>	<u>425.0</u>		<u>Diamond core</u>

AVAILABLE LOGS			
	Scale	From	To
Lithologic-Cuttings			
Core	<u>0.1'</u>	<u>0</u>	<u>425</u>
Geophysical-Gamma		<u>0</u>	<u>425</u>
LS Density			
Bulk Dens.		<u>0</u>	<u>425</u>
HR Density			
SP Resistivity			
Focused Resistivity			
Caliper		<u>0</u>	<u>425</u>
Sonic			
Neutron			
Deviation			
Microlog			
Vert. Seismic Profile			
ASCII file			

SURFACE AND HOLE CASING				
From	To	Type	Size	Pulled/left?

CORE INTERVALS AND RECOVERY					
Run	From	To	Cored	Rec.	%
<u>48</u>	<u>Runs Sec</u>	<u>1.1th logs</u>			

STRATIGRAPHIC INFORMATION					
Coal Seam	From	To	Thick	Obdn	Intbd
<u>E Seam</u>	<u>350.8</u>	<u>365.1</u>	<u>18.3</u>		

FINAL DRILL HOLE DISPOSITION	
Coals not cored, coals not probed	
Coals cored, coals not probed	<input checked="" type="checkbox"/>
Coals not cored, coals probed	
Coals cored, coals probed	
Plugged and Abandoned	
Piezometer	
Water Sampling Well	
Piezometer and Water Sampling Well	
Water Well	
Methane-production well	
Methane-stimulation well	
Waste Water Injection Well	
Drill Hole Left Open	

WATER OR GAS OBSERVED				
Fluid	From	To	Flow	Sampled?
Static Water Level-				
Time Between Stop Drilling and Measurement-				

Comments Hole Plugged & Abandoned.

RACS, LLC

22235 H75 Rd., Delta, CO 81416

(970) 874-7393

WELL ABANDONMENT REPORT

Date 10-5-2014

Well Identification

Owner Mountain Coal Company

Well Number Lick Creek (A) 14LC01

Well Location (township & range) _____

(Lat / Long) 1444228, 376240

County Gunnison

State CO

Elevation 7,612'

Existing Well Details

Is a well drillers report available? ☒ Yes ☐ No

Nature of use & current status Exploration

Hole Depth 84' Feet Hole Diameter 6.25" Inches

Surface Casing type / Wt. None / _____ Size _____ Depth _____

Intermediate Casing Type / Wt. None / _____ Size _____ Depth _____

Completion Blank Casing Type / Wt. None / _____ Size _____ Depth From _____ To _____

Completion Perf casing Type / Wt. None / _____ Size _____ Depth From _____ To _____

Static Fluid Level Depth N/A Feet - Artesian Flow None GPM - Shut-In Pressure N/A PSI

Notes exploration well rotary drilled down to coal seam, logged then plugged back to surface. A lot of clays

Abandonment Details

Reason for Abandonment Exploration Well

Bridge Plug type None

TD of well or Bridge Plug Depth 84' Feet

Total fluid volume of well from TD or Bridge Plug 134 Gallons

Total volume of fluid used 62 Gallons

Method of sealing material placement Tremmie Pipe

Casing cut to N/A Ft. below surface P&A Marker type Brass marker

Date of Abandonment Completion 10-5-2014

Depth (Feet)		Material Used	Quantity	Density
From	To		Gal. / CuFt. / Sk.	Lbs./Gal.
0'	84'	Type II neat cement	7 sks.	15.6 ppg.

Notes _____

* All depths are from top of surface casing

RACS, LLC

22235 H75 Rd., Delta, CO 81416

(970) 874-7393

WELL ABANDONMENT REPORT

Date 10-5-2014

Well Identification

Owner Mountain Coal Company

Well Number Lick Creek (B) 14LC02

Well Location (township & range) _____

(Lat / Long) 1444164, 376057

County Gunnison

State CO

Elevation 7,589'

Existing Well Details

Is a well drillers report available? ☒ Yes ☐ No

Nature of use & current status Exploration

Hole Depth 80' Feet Hole Diameter 6.25" Inches

Surface Casing type / Wt. None / _____ Size _____ Depth _____

Intermediate Casing Type / Wt. None / _____ Size _____ Depth _____

Completion Blank Casing Type / Wt. None / _____ Size _____ Depth From _____ To _____

Completion Perf casing Type / Wt. None / _____ Size _____ Depth From _____ To _____

Static Fluid Level Depth N/A Feet - Artesian Flow None GPM - Shut-In Pressure N/A PSI

Notes exploration well rotary drilled down to coal seam, logged then plugged back to surface. A lot of clays

Abandonment Details

Reason for Abandonment Exploration Well

Bridge Plug type None

TD of well or Bridge Plug Depth 80' Feet

Total fluid volume of well from TD or Bridge Plug 128 Gallons

Total volume of fluid used 62 Gallons

Method of sealing material placement Tremmie Pipe

Casing cut to N/A Ft. below surface P&A Marker type Brass marker

Date of Abandonment Completion 10-5-2014

Depth (Feet)		Material Used	Quantity	Density
From	To		Gal. / CuFt. / Sks.	Lbs./Gal.
0'	80'	Type II neat cement	7 sks.	15.6 ppg.

Notes _____

* All depths are from top of surface casing

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(970) 874-7393

WELL ABANDONMENT REPORT

Date 10-5-2014

Well Identification

Owner Mountain Coal Company
Well Number Lick Creek (D) 14LC03
Well Location (township & range) _____
(Lat / Long) 1444228, 376240
County Gunnison State CO Elevation 7,589'

Existing Well Details

Is a well drillers report available? ☒ Yes ☐ No
Nature of use & current status Exploration
Hole Depth 121' Feet Hole Diameter 6.25" Inches
Surface Casing type / Wt. None / _____ Size _____ Depth _____
Intermediate Casing Type / Wt. None / _____ Size _____ Depth _____
Completion Blank Casing Type / Wt. None / _____ Size _____ Depth From _____ To _____
Completion Perf casing Type / Wt. None / _____ Size _____ Depth From _____ To _____
Static Fluid Level Depth N/A Feet - Artesian Flow None GPM - Shut-In Pressure N/A PSI
Notes exploration well rotary drilled down to coal seam, installed 4" PVC, logged then plugged back to surface while pulling PVC.
A lot of clays

Abandonment Details

Reason for Abandonment Exploration Well
Bridge Plug type None
TD of well or Bridge Plug Depth 121' Feet
Total fluid volume of well from TD or Bridge Plug 194 Gallons
Total volume of fluid used 148 Gallons
Method of sealing material placement Tremmie Pipe
Casing cut to N/A Ft. below surface P&A Marker type Brass marker
Date of Abandonment Completion 10-5-2014

Depth (Feet)		Material Used	Quantity	Density
From	To		Gal. / CuFt. / Sks.	Lbs./Gal.
0'	60'	Type II neat cement	8 sks.	15.6 ppg.
60'	80'	MI Super Plug	4 sks.	
80'	121'	Type II neat cement	2 sks.	15 ppg.

Notes _____

* All depths are from top of surface casing

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WELL ABANDONMENT REPORT

Date 10-5-2014

Well Identification

Owner Mountain Coal Company

Well Number Lick Creek (E) 14LC04

Well Location (township & range) _____

(Lat / Long) _____

County Gunnison

State CO

Elevation 7,532'

Existing Well Details

Is a well drillers report available? ☒ Yes ☐ No

Nature of use & current status Exploration

Hole Depth 65' Feet Hole Diameter 6.25" Inches

Surface Casing type / Wt. None / _____ Size _____ Depth _____

Intermediate Casing Type / Wt. None / _____ Size _____ Depth _____

Completion Blank Casing Type / Wt. None / _____ Size _____ Depth From _____ To _____

Completion Perf casing Type / Wt. None / _____ Size _____ Depth From _____ To _____

Static Fluid Level Depth N/A Feet - Artesian Flow 2-3 GPM - Shut-In Pressure N/A PSI

Notes exploration well rotary drilled down to coal seam, logged then plugged back to surface. A lot of clays

Abandonment Details

Reason for Abandonment Exploration Well

Bridge Plug type None

TD of well or Bridge Plug Depth 65' Feet

Total fluid volume of well from TD or Bridge Plug 104 Gallons

Total volume of fluid used 264 Gallons

Method of sealing material placement Tremmie Pipe

Casing cut to N/A Ft. below surface P&A Marker type Brass marker

Date of Abandonment Completion 10-5-2014

Depth (Feet)		Material Used	Quantity	Density
From	To		Gal. / CuFt. / Sk.	Lbs./Gal.
0'	65'	Type II neat cement	30 sks.	15.6 ppg.

Notes _____

* All depths are from top of surface casing

RACS, LLC

22235 H75 Rd., Delta, CO 81416

(970) 874-7393

WELL ABANDONMENT REPORT

Date 11-1-2021

Well Identification

Owner Mountain Coal Company
Well Number SS1-1
Well Location (township & range) _____
(Lat / Long) _____
County Gunnison State Colorado Elevation _____

Existing Well Details

Is a well drillers report available? ☐ Yes ☒ No
Nature of use & current status Methane Drainage Well / Shut In
Hole Depth _____ Feet Hole Diameter _____ Inches
Surface Casing type / Wt. Steel / _____ Size 14" Depth _____
Intermediate Casing Type / Wt. Steel / 36# Size 9 5/8" Depth _____
Completion Blank Casing Type / Wt. Steel / 23# Size 7" Depth From _____ To _____
Completion Perf casing Type / Wt. Steel / 23# Size 7" Depth From _____ To _____
Static Fluid Level Depth N/A Feet - Artesian Flow None GPM - Shut-In Pressure N/A PSI
Notes casing crushed @ 105'

Abandonment Details

Reason for Abandonment No Longer needed
Bridge Plug type 9 5/8" RTJP
TD of well or Bridge Plug Depth 105' Feet
Total fluid volume of well from TD or Bridge Plug 341 Gallons
Total volume of fluid used 618 Gallons
Method of sealing material placement through 2 3/8 tubing
Casing cut to 3' Ft. below surface P&A Marker type None
Date of Abandonment Completion 9-25-2021

Depth (Feet)		Material Used	Quantity	Density
From	To		Gal. / CuFt. / Sks.	Lbs./Gal.
104'	105'	9 5/8" Rubber Top Job Plug		
105'	128'	Bentonite Chips	79 / 10.5 / 15	
128'	102'	Type I-II Cement	176 / 23.6 / 20	15.6 PPG
102'	25'	MI Super Plug	301 / 40 / 7	
25'	4'	Type I-II Cement	62 / 8.3 / 7	15.6 PPG

Notes _____

* All depths are from top of surface casing

RACS, LLC

22235 H75 Rd., Delta, CO 81416

(970) 874-7393

WELL ABANDONMENT REPORT

Date 11-1-2021

Well Identification

Owner Mountain Coal Company
Well Number SS1-2
Well Location (township & range) _____
(Lat / Long) _____
County Gunnison State Colorado Elevation _____

Existing Well Details

Is a well drillers report available? ☐ Yes ☒ No
Nature of use & current status Methane Drainage Well / Shut In
Hole Depth _____ Feet Hole Diameter _____ Inches
Surface Casing type / Wt. Steel / _____ Size 14" Depth _____
Intermediate Casing Type / Wt. Steel / 36# Size 9 5/8" Depth _____
Completion Blank Casing Type / Wt. Steel / 23# Size 7" Depth From _____ To _____
Completion Perf casing Type / Wt. Steel / 23# Size 7" Depth From _____ To _____
Static Fluid Level Depth N/A Feet - Artesian Flow None GPM - Shut-In Pressure N/A PSI
Notes casing crushed @ 251'

Abandonment Details

Reason for Abandonment No Longer needed
Bridge Plug type 9 5/8" RTJP
TD of well or Bridge Plug Depth 251' Feet
Total fluid volume of well from TD or Bridge Plug 816 Gallons
Total volume of fluid used 808 Gallons
Method of sealing material placement through 2 3/8 tubing
Casing cut to 3' Ft. below surface P&A Marker type None
Date of Abandonment Completion 10-3-2021

Depth (Feet)		Material Used	Quantity	Density
From	To		Gal. / CuFt. / Sks.	Lbs./Gal.
251'	250"	9 5/8" Rubber Top Job Plug		
250'	227'	Bentonite Chips	80 / 11 / 15	
227'	173'	Type I-II Cement	176 / 23.6 / 20	15.6 PPG
173'	15'	MI Super Plug	516 / 69 / 12	
15'	4'	Type I-II Cement	35 / 5 / 4	15.6 PPG

Notes _____

* All depths are from top of surface casing

RACS, LLC

22235 H75 Rd., Delta, CO 81416

(970) 874-7393

WELL ABANDONMENT REPORT

Date 11-1-2021

Well Identification

Owner Mountain Coal Company

Well Number SS1-3

Well Location (township & range) _____

(Lat / Long) _____

County Gunnison

State Colorado

Elevation _____

Existing Well Details

Is a well drillers report available? ☐ Yes ☒ No

Nature of use & current status Methane Drainage Well / Shut In

Hole Depth _____ Feet Hole Diameter _____ Inches

Surface Casing type / Wt. Steel / _____ Size 14" Depth _____

Intermediate Casing Type / Wt. Steel / 36# Size 9 5/8" Depth _____

Completion Blank Casing Type / Wt. Steel / 23# Size 7" Depth From _____ To _____

Completion Perf casing Type / Wt. Steel / 23# Size 7" Depth From _____ To _____

Static Fluid Level Depth N/A Feet - Artesian Flow None GPM - Shut-In Pressure N/A PSI

Notes casing crushed @ 157'

Abandonment Details

Reason for Abandonment No Longer needed

Bridge Plug type 9 5/8" RTJP

TD of well or Bridge Plug Depth 157' Feet

Total fluid volume of well from TD or Bridge Plug 510 Gallons

Total volume of fluid used 708 Gallons

Method of sealing material placement through 2 3/8 tubing

Casing cut to 3' Ft. below surface P&A Marker type None

Date of Abandonment Completion 10-3-2021

Depth (Feet)		Material Used	Quantity	Density
From	To		Gal. / CuFt. / Sks.	Lbs./Gal.
156'	157'	9 5/8" Rubber Top Job Plug		
157'	148'	Bentonite Chips	32 / 4 / 6	
148'	118'	Type I-II Cement	79 / 11 / 9	15.6 PPG
118'	20'	MI Swaco Super Plug	387 / 52 / 9	
20'	34'	Type I-II Cement	106 / 14 / 12	15.6 PPG
34'	23'	MI Swaco Super Plug (dry)	42 / 6 / 8	
23'	6'	Type I-II Cement	62 / 8 / 7	15.6 PPG

Notes _____

* All depths are from top of surface casing

RACS, LLC

22235 H75 Rd., Delta, CO 81416

(970) 874-7393

WELL ABANDONMENT REPORT

Date 11-1-2021

Well Identification

Owner Mountain Coal Company
Well Number SS1-4
Well Location (township & range) _____
(Lat / Long) _____
County Gunnison State Colorado Elevation _____

Existing Well Details

Is a well drillers report available? ☐ Yes ☒ No
Nature of use & current status Methane Drainage Well / Shut In
Hole Depth _____ Feet Hole Diameter _____ Inches
Surface Casing type / Wt. Steel / _____ Size 14" Depth _____
Intermediate Casing Type / Wt. Steel / 36# Size 9 5/8" Depth _____
Completion Blank Casing Type / Wt. Steel / 23# Size 7" Depth From _____ To _____
Completion Perf casing Type / Wt. Steel / 23# Size 7" Depth From _____ To _____
Static Fluid Level Depth N/A Feet - Artesian Flow None GPM - Shut-In Pressure N/A PSI
Notes casing crushed @ 196'

Abandonment Details

Reason for Abandonment No Longer needed
Bridge Plug type 9 5/8" RTJP
TD of well or Bridge Plug Depth 196' Feet
Total fluid volume of well from TD or Bridge Plug 637 Gallons
Total volume of fluid used 637 Gallons
Method of sealing material placement through 2 3/8 tubing
Casing cut to 3' Ft. below surface P&A Marker type None
Date of Abandonment Completion 9-28-2021

Depth (Feet)		Material Used	Quantity	Density
From	To		Gal. / CuFt. / Sks.	Lbs./Gal.
196'	195'	9 5/8" Rubber Top Job Plug		
195'	181'	Bentonite Chips	48 / 6.3 / 9	
181'	144'	Type I-II Cement	106 / 14 / 12	15.6 PPG
144'	20'	MI Super Plug	430 / 57 / 10	
20'	4'	Type I-II Cement	53 / 7 / 6	15.6 PPG

Notes _____

* All depths are from top of surface casing

RACS, LLC

22235 H75 Rd., Delta, CO 81416

(970) 874-7393

WELL ABANDONMENT REPORT

Date 11-1-2021

Well Identification

Owner Mountain Coal Company
Well Number SS1-5
Well Location (township & range) _____
(Lat / Long) _____
County Gunnison State Colorado Elevation _____

Existing Well Details

Is a well drillers report available? ☐ Yes ☒ No
Nature of use & current status Methane Drainage Well / Shut In
Hole Depth _____ Feet Hole Diameter _____ Inches
Surface Casing type / Wt. Steel / _____ Size 14" Depth _____
Intermediate Casing Type / Wt. Steel / 36# Size 9 5/8" Depth _____
Completion Blank Casing Type / Wt. Steel / 23# Size 7" Depth From _____ To _____
Completion Perf casing Type / Wt. Steel / 23# Size 7" Depth From _____ To _____
Static Fluid Level Depth N/A Feet - Artesian Flow None GPM - Shut-In Pressure N/A PSI
Notes casing crushed @ 55'

Abandonment Details

Reason for Abandonment No Longer needed
Bridge Plug type 9 5/8" RTJP
TD of well or Bridge Plug Depth 55' Feet
Total fluid volume of well from TD or Bridge Plug 178 Gallons
Total volume of fluid used 159 Gallons
Method of sealing material placement through 2 3/8 tubing
Casing cut to 3' Ft. below surface P&A Marker type None
Date of Abandonment Completion 9-26-2021

Depth (Feet)		Material Used	Quantity	Density
From	To		Gal. / CuFt. / Sks.	Lbs./Gal.
55'	54'	9 5/8" Rubber Top Job Plug		
54'	47'	Bentonite Chips	27 / 3.5 / 5	
47'	32'	Type I-II Cement	44 / 6 / 5	15.6 PPG
32'	4'	Type I-II Cement	88 / 12 / 10	

Notes _____

* All depths are from top of surface casing

RACS, LLC

22235 H75 Rd., Delta, CO 81416

(970) 874-7393

WELL ABANDONMENT REPORT

Date 11-1-2021

Well Identification

Owner Mountain Coal Company

Well Number SS1-7

Well Location (township & range) _____

(Lat / Long) _____

County Gunnison

State Colorado

Elevation _____

Existing Well Details

Is a well drillers report available? ☐ Yes ☒ No

Nature of use & current status Methane Drainage Well / Shut In

Hole Depth _____ Feet Hole Diameter _____ Inches

Surface Casing type / Wt. Steel / _____ Size 14" Depth _____

Intermediate Casing Type / Wt. Steel / 36# Size 9 5/8" Depth _____

Completion Blank Casing Type / Wt. Steel / 23# Size 7" Depth From _____ To _____

Completion Perf casing Type / Wt. Steel / 23# Size 7" Depth From _____ To _____

Static Fluid Level Depth N/A Feet - Artesian Flow None GPM - Shut-In Pressure N/A PSI

Notes casing crushed @ 63'

Abandonment Details

Reason for Abandonment No Longer needed

Bridge Plug type 9 5/8" RTJP

TD of well or Bridge Plug Depth 63' Feet

Total fluid volume of well from TD or Bridge Plug 205 Gallons

Total volume of fluid used 475 Gallons

Method of sealing material placement through 2 3/8 tubing

Casing cut to 3' Ft. below surface P&A Marker type None

Date of Abandonment Completion 9-26-2021

Depth (Feet)		Material Used	Quantity	Density
From	To		Gal. / CuFt. / Sks.	Lbs./Gal.
63'	62'	9 5/8"Rubber Top Job Plug		
62'	51'	Bentonite Chips	37 / 5 / 7	
51'	36'	Type I-II Cement	44 / 6 / 5	15.6 PPG
36'	51'	Type I-II Cement	212 / 28 / 24	15.6 PPG
51'	20'	MI Swaco Super Plug	129 / 17 / 3	
20'	4'	Type I-II Cement	53 / 7 / 6	15.6 PPG

Notes _____

* All depths are from top of surface casing