



Kathleen G. Welt
Environmental Engineer III
kwelt@archrsc.com
Phone: 970.929.2238

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

March 03, 2021

Mr. Leigh Simmons
Colorado Department of Natural Resources
Division of Reclamation, Mining and Safety
1313 Sherman Street, Room 215
Denver, CO 80203

Re: Mountain Coal Company, LLC, West Elk Mine; Permit No. C-1980-007; Request for SL-14 Phase I Bond Release of Mine Ventilation Boreholes and Associated Pads and Roads in the Dry Fork of Minnesota Creek Area

Dear Mr. Simmons:

Attached is Mountain Coal Company, LLC's (MCC) application for SL-14 Phase I Bond Release of several mine ventilation boreholes (MVB) and associated pads and roads. The proof of publication of the public notice and return receipts for the delivery of the landowner letters will be provided to the Division after they are received by MCC.

MCC requests Phase I Bond Release of about \$95,000.00 for nineteen (19) MVBs and associated pads and roads that have been reclaimed within the Dry Fork of Minnesota Creek area (see Tables I & II and the RN-7 RCE per hole table). These sites are located on National Forest System lands within portions of Sections 2, 3, 4, 10 and 11 of Township 14 South, Range 90 West. The MVB sites and roads were necessary for temporary mine ventilation.

MCC's mining and reclamation permit was originally issued by the Mined Land Reclamation Board in July 1981, and subsequently renewed in August 1986, January 1993 (effective August 1991), July 1996, July 2001, April 2007 (effective July 2006), November 2011 (effective July 2011), and September 2020 (effective July 2016). The West Elk Mine five-year permit area contains lands in Sections 9-11, 13-36, T13S, R90W, 6th PM; Sections 23-26, T13S, R91W, 6th PM; and Sections 1-5, 8-12, 14-16, and 21-23, T14S, R90W, 6th PM in Delta and Gunnison Counties. The location of the lands can be found on the USGS 7.5 minute Somerset and Minnesota Pass Quadrangle Topographic Maps. The current permit area encompasses approximately 19,854.9 acres.

MCC holds reclamation surety bonds from Arch Insurance Company and Indemnity National Insurance Company (Bond numbers SU1116159 and N-7004698, respectively) totaling \$15 million. The reclamation cost estimates for the reclaimed sites that will be part of the requests are covered by these bonds.

Reclamation of the various site locations and roads within MCC's permit area was completed in 2019 through 2020. This included the plugging and sealing of nineteen (19) MVBs, as well as backfilling and regrading of the associated pad locations and access roads. The sites and roads proposed for bond release have been revegetated and stabilized using various methods of seeding, fertilizing, and mulching with straw mulch and native vegetative debris. Approximately 12.05 total acres have received these treatments.

As agreed to in email correspondence dated January 25, 2011 (See Appendix H of SL-10), MCC's Reclamation Photograph Reports of the reclaimed MVB sites and associated roads are sufficient for documenting that all facilities have been removed from each site and the sites have been regraded to approximate original contour. Therefore, drawings showing cross-sections of the backfilled and graded areas, drainage control facilities and the as-built reclamation have not been submitted with this request. The Reclamation Photograph Report (initiated in 2004) has been an annual documentation project that MCC voluntarily performs. It demonstrates and documents qualitative reclamation success over time. In addition to the photographs in Appendix B, MCC has included a notarized professional engineer's certification in Appendix A that certifies the reclaimed areas in this application were backfilled and reclaimed to approximate original contour; drainages were reestablished, including drainage profiles; and drainage control has been established in accordance with the approved plan.

A copy of the proposed Public Notice as required by Rule 3.03.2(1)(b) is included in Appendix C and a copy of the written notice that was sent to adjacent land owners as required by Rule 3.03.2(1) is included in Appendix D. For your convenience, the previously submitted well plugging and abandonment reports have been included in Appendix E. A map of the reclaimed sites at MCC is included in Appendix F.

If you have questions concerning this application for Phase I bond release or require further information, please contact me at (970) 929-2238 or Nicki Poulos at (970) 929-2219.

Sincerely,



Kathleen G. Welt
Environmental Engineer III

cc: W. Norris
N. Poulos
J. Wilczek

Attachments

Appendix A – Professional Engineer's Certification
Appendix B – Reclamation Photographs
Appendix C – Public Notice
Appendix D – Landowner Letters
Appendix E – Plug and Abandonment Reports
Appendix F – 2020 Phase 1 Bond Release Map

TABLE I - BONDING

MCC Site Name /		Total Number of	RN-7 P&A Cost*				RN-7 Regrading		RN-7 Topsoil		Total/ Hole		Bond Release
MVB Number	Acres Reclaimed		RN-7 P&A Cost*	Cost*	Cost*	Cost*	Cost*	RN-7 Seed Cost*	RCE	Requested	60%		
E6-13 & Road	0.81		\$ 3,487.00	\$ 2,461.00	\$ 820.00	\$ 679.00	\$ 7,447.00	\$ 4,468.20					
E7-1 & Road	0.69		\$ 3,487.00	\$ 3,453.00	\$ 1,151.00	\$ 953.00	\$ 9,044.00	\$ 5,426.40					
E7-2 & Road	0.40		\$ 3,487.00	\$ 3,453.00	\$ 1,151.00	\$ 953.00	\$ 9,044.00	\$ 5,426.40					
E7-3 & Road	0.71		\$ 3,487.00	\$ 3,453.00	\$ 1,151.00	\$ 953.00	\$ 9,044.00	\$ 5,426.40					
E7-4 & Road	2.25		\$ 3,487.00	\$ 3,453.00	\$ 1,151.00	\$ 953.00	\$ 9,044.00	\$ 5,426.40					
E7-5 & Road	1.09		\$ 3,487.00	\$ 3,453.00	\$ 1,151.00	\$ 953.00	\$ 9,044.00	\$ 5,426.40					
E7-6	P&A Only		\$ 3,487.00	---	---	---	\$ 3,487.00	\$ 2,092.20					
E7-7 & Road	0.74		\$ 3,487.00	\$ 3,453.00	\$ 1,151.00	\$ 953.00	\$ 9,044.00	\$ 5,426.40					
E7-8	P&A Only		\$ 3,487.00	---	---	---	\$ 3,487.00	\$ 2,092.20					
E7-9	P&A Only		\$ 3,487.00	---	---	---	\$ 3,487.00	\$ 2,092.20					
E7-10	0.61		\$ 3,487.00	\$ 3,453.00	\$ 1,151.00	\$ 953.00	\$ 9,044.00	\$ 5,426.40					
E7-11	0.50		\$ 3,487.00	\$ 3,453.00	\$ 1,151.00	\$ 953.00	\$ 9,044.00	\$ 5,426.40					
E8-1 & Road	0.71		\$ 3,486.00	\$ 4,507.00	\$ 1,502.00	\$ 1,245.00	\$ 10,740.00	\$ 6,444.00					
E8-2 & Road	0.47		\$ 3,486.00	\$ 4,507.00	\$ 1,502.00	\$ 1,245.00	\$ 10,740.00	\$ 6,444.00					
E8-3 & Road	0.75		\$ 3,486.00	\$ 4,507.00	\$ 1,502.00	\$ 1,245.00	\$ 10,740.00	\$ 6,444.00					
E8-4	0.54		\$ 3,486.00	\$ 4,507.00	\$ 1,502.00	\$ 1,245.00	\$ 10,740.00	\$ 6,444.00					
E8-5 & Road	0.76		\$ 3,486.00	\$ 4,507.00	\$ 1,502.00	\$ 1,245.00	\$ 10,740.00	\$ 6,444.00					
E8-6	P&A Only		\$ 3,486.00	---	---	---	\$ 3,486.00	\$ 2,091.60					
E8-7 & Road	1.02		\$ 3,486.00	\$ 4,507.00	\$ 1,502.00	\$ 1,245.00	\$ 10,740.00	\$ 6,444.00					
TOTALS			\$ 66,246.00	\$ 57,127.00	\$ 19,040.00	\$ 15,773.00	#####	\$ 94,911.60					

* See Appendix G for excerpt from RN-7 RCE and table of RN-7 per hole calculations.

** See Table II - Reclaimed Drill Sites and Roads

TABLE II - RECLAIMED DRILL SITES AND ROADS

<u>MCC Site Name / MVB Number</u>	<u>Permit Revision</u>	<u>Coordinates</u>	<u>Acres</u>	<u>Year Reclaimed</u>	<u>Plug & Abandon</u>	
					<u>Date</u>	<u>Hole Depth (ft.)</u>
E6-13 & Road	PR-14	N 38°51' 53.56" W 107°26'55.92"	0.81	2019	2019	840
E7-1 & Road	PR-14/TR-138/TR-140	N 38°51' 23.75" W 107°25' 17.44"	0.69	2019	2019	1,203
E7-2 & Road	PR-14 / TR-140	N 38°51' 23.9" W 107°25' 19.75"	0.40	2019	2019	1,224
E7-3 & Road	PR-14 / TR-138	N 38°51' 25.18" W 107°25' 24.87"	0.71	2019	2019	1,263
E7-4 & Road	PR-14 / TR-138	N 38°51' 26.8" W 107°25' 32.21"	2.25	2020	2020	1,285
E7-5 & Road	PR-14 / TR-140	N 38°51' 28.23" W 107°25' 42"	1.09	2019	2019	1,054
E7-6	PR-14 / TR-140	N 38°51' 30.3" W 107°25' 51.71"	P&A Only	---	2020	981
E7-7 & Road	PR-14 / TR-140	N 38°51' 32.7" W 107°25' 59.06"	0.74	2019	2019	998
E7-8	PR-14 / TR-140	N 38°51' 33.84" W 107°26' 15"	P&A Only	---	2020	1,300
E7-9	PR-14 / TR-140	N 38°51' 35.33" W 107°26' 27.25"	P&A Only	---	2020	1,277
E7-10	PR-14 / TR-140	N 38°51' 36.78" W 107°26' 36.9"	0.61	2019	2019	1,039
E7-11	PR-14 / TR-140	N 38°51' 39.96" W 107°26' 49.54"	0.50	2019	2019	695
E8-1 & Road	PR-14/TR-140/TR-145	N 38°51' 9.84" W 107°25' 24.59"	0.71	2020	2020	1,007
E8-2 & Road	PR-14/TR-140/TR-145	N 38°51' 12.24" W 107°25' 27.25"	0.47	2020	2020	1,007
E8-3 & Road	PR-14/TR-140/TR-145	N 38°51' 12.77" W 107°25' 33.11"	0.75	2020	2020	962
E8-4	PR-14/TR-140/TR-145	N 38°51' 13.55" W 107°25' 38.98"	0.54	2020	2020	913
E8-5 & Road	PR-14/TR-140/TR-145	N 38°51' 14.82" W 107°25' 49.37"	0.76	2020	2020	769
E8-6	PR-14/TR-140/TR-145	N 38°51' 17.26" W 107°25' 58.42"	P&A Only	---	2020	723
E8-7 & Road	PR-14/TR-140/TR-145	N 38°51' 19.15" W 107°26' 9.79"	1.02	2020	2020	669
Total Acres			12.05			

RN-7 RCE Per Hole

Panel	# Holes in RN-		Actual # Holes		RN-7 P&A Total		RN-7 Regrade		RN-7 Topsoil		RN-7 Seed	
	7 RCE	Reclaimed	P&A'd	Cost	P&A/ Hole	Total Cost	Regrade/ Hole	Total Cost	Topsoil/ Hole	Total Cost	Seed/ Hole	Total Cost
E6 Pre 2020	7	1	1	\$24,409	\$3,487	\$17,230	\$2,461	\$5,743	\$820	\$4,755	\$679	\$4,755
E7	12	8	11	\$41,839	\$3,487	\$41,433	\$3,453	\$13,811	\$1,151	\$11,434	\$953	\$11,434
E8	8	6	7	\$27,886	\$3,486	\$36,056	\$4,507	\$12,019	\$1,502	\$9,956	\$1,245	\$9,956

Appendix A

Professional Engineer's Certification

Certification of Reclamation

Based on my professional engineering judgment, I certify the reclaimed areas that are the subject of this bond release request were back-filled and reclaimed to approximate original contour; drainages were reestablished, including drainage profiles, and drainage controls were installed in accordance with the Act and Rules per Mountain Coal Company, LLC's approved reclamation plan.

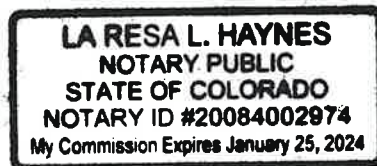
Name: Jessica A. Wilczek

Signature: *Jessica A. Wilczek*

Registration: Colorado PE No. 39802

Subscribed and sworn before me this 3rd day of March, 2021.

Notary Public *LaResa L. Haynes* Commission Expires *1-25-2024*



Appendix B

Reclamation Photographs





MCC
E7 142 (W-270)
N 38° 51' 24.1" "
W 107° 25' 13.4" "
7-13-20



MCC
E7-3(NW 310°)
N38°51'28.6"
W107°25'43.2"
7-13-20





























MCC

E 8-4 (SE-125°)

N 38° 51' 14.3"

W 107° 25' 40.3"

7-13-20





MCC
E 8.5' (SE 150°)
N 33° 51' 15.7"
W 101° 25' 49.6"
8-10-20

Appendix C

Public Notice

Public Notice

Mountain Coal Company, LLC (MCC), 5174 Highway 133, Somerset, CO 81434, (970) 929-5015, has filed a request for partial, Phase I Bond Release of MCC's Mining and Reclamation Permit No. C-1980-007 with the Colorado Mined Land Reclamation Board (Board), under the provisions of the Colorado Surface Coal Mining Reclamation Act of 1979. The permit was originally issued by the Board in July 1981, and subsequently renewed in August 1986, January 1993 (effective August 1991), July 1996, July 2001, April 2007 (effective July 2006), November 2011 (effective July 2011), and September 2020 (effective July 2016). The West Elk Mine five-year permit area contains lands in Sections 9-11, 13-36, T13S, R90W, 6th PM; Sections 23-26, T13S, R91W, 6th PM; and Sections 1-5, 8-12, 14-16, and 21-23, T14S, R90W, 6th PM in Delta and Gunnison Counties. The location of the lands can be found on the USGS 7.5 minute Somerset and Minnesota Pass Quadrangle Topographic Maps. The current permit area encompasses approximately 19,854.9 acres.

MCC is requesting Phase I Bond Release of approximately \$95,000.00 (i.e. sixty percent (60%) of the \$158,186.00 reclamation performance bond posted) for mine ventilation boreholes (MVBs) and associated pads and roads that have been reclaimed within the Dry Fork of the Minnesota Creek area totaling about 12.05 acres. These sites are located on National Forest System lands within portions of Sections 2, 3, 4, 10 and 11 of Township 14 South, Range 90 West.

Reclamation of the various site locations and roads within MCC's permit area was completed in 2019 through 2020. Reclamation included proper plugging and sealing of MVBs, as well as backfilling and regrading pad locations and access roads. The borehole sites and roads proposed for bond release have been revegetated and stabilized using various methods of seeding, fertilizing, and mulching.

A copy of the Phase I Bond Release application is available for review at the Colorado Division of Reclamation, Mining and Safety (CDRMS), 1313 Sherman Street, Room 215 Denver, CO 80203, phone (303) 866-3567, and the Gunnison County Planning Office, 221 N. Wisconsin, Suite D, Gunnison, CO 81230. Comments or objections concerning the application should be directed to the CDRMS at the above address within thirty (30) days of the last publication of this notice, or within thirty (30) days of the completed inspection, whichever is later.

Appendix D

Landowner Letters



Kathleen G. Welt
Environmental Engineer III
kwelt@archrsc.com
Phone: 970.929.2238

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

March 03, 2021

Suzanne Copping, Acting Field Office Manager
Bureau of Land Management
Uncompahgre Field Office
2465 South Townsend Avenue
Montrose, CO 81401

Mr. Levi Broyles, District Ranger
USDA Forest Service
Paonia Ranger District
P.O. Box 1030
Paonia, CO 81428

Gunnison Board of County Commissioners
Gunnison County Courthouse
200 East Virginia, Suite 104
Gunnison, CO 81230

Ark Land LLC
c/o Mountain Coal Company, LLC
5174 Highway 133
Somerset, CO 81434

Minnesota Canal & Reservoir Company
41103 Lamborn Mesa Road
Paonia, CO 81428

Re: Mountain Coal Company, LLC, West Elk Mine; Permit No. C-1980-007; Notice of Request for Phase I Reclamation Bond Release

To Whom It May Concern:

In compliance with Rule 3.03.2(1) of the Regulations of the Colorado Mined Land Reclamation Board for Coal Mining ("the Regulations"), 1980, as revised, Mountain Coal Company, LCC (MCC) is providing this notice to inform the above-mentioned landowners that MCC plans to request from the Colorado Division of Reclamation, Mining and Safety (CDRMS) a partial release of the reclamation liability held in surety bonds. The bond release requests are planned for several reclaimed mine ventilation boreholes (MVB) and associated pads and roads within the Dry Fork of Minnesota Creek area. MCC is requesting Phase I bond release for up to 60% of the reclamation bond held by the CDRMS for each site.

In accordance with the Regulations, Phase I bond release may be requested after backfilling, regrading and drainage control has been successfully completed in accordance with MCC's approved reclamation plan. Backfilling and grading are considered to be complete when the final post-mine topography has been achieved in accordance with the permit, including establishment of the approved permanent stormwater drainage controls.

MCC holds reclamation surety bonds from Arch Insurance Company and Indemnity National Insurance Company (Bond numbers SU1116159 and N-7004698, respectively) totaling \$15 million. The reclamation cost estimates for the reclaimed sites that will be part of the requests are covered by these bonds. The cost estimates were calculated by the CDRMS before the approval of each project's permit revision application was issued. The reclamation cost estimates include plugging the drill holes, removal of any surface facilities, regrading the area to approximate original contours, replacing topsoil, and revegetating the sites and roads. The estimates also include CDRMS overhead and contingency costs. These estimates have been

subsequently updated and increased, if needed, during permit renewal and mid-term reviews, considering the most current materials, fuel and labor costs, etc.

MCC's mining and reclamation permit was originally issued by the Mined Land Reclamation Board in July 1981, and subsequently renewed in August 1986, January 1993 (effective August 1991), July 1996, July 2001, April 2007 (effective July 2006), November 2011 (effective July 2011), and September 2020 (effective July 2016). The West Elk Mine five-year permit area contains lands in Sections 9-11, 13-36, T13S, R90W, 6th PM; Sections 23-26, T13S, R91W, 6th PM; and Sections 1-5, 8-12, 14-16, and 21-23, T14S, R90W, 6th PM in Delta and Gunnison Counties. The location of the lands can be found on the USGS 7.5 minute Somerset and Minnesota Pass Quadrangle Topographic Maps. The current permit area encompasses approximately 19,854.9 acres.

The reclaimed sites are located on National Forest System lands within portions of Sections 2, 3, 4, 10 and 11 of Township 14 South, Range 90 West. The MVB sites and roads were necessary for temporary mine ventilation.

Reclamation of the various site locations and roads within MCC's permit area was completed in 2019 through 2020. This included the plugging and sealing of nineteen (19) MVBs, as well as backfilling and regrading of the associated pad locations and access roads. The sites and roads proposed for bond release have been revegetated and stabilized using various methods of seeding, fertilizing, and mulching with straw mulch and native vegetative debris. Approximately 12.05 total acres have received these treatments.

If you have any questions or need further information concerning this notice of MCC's Bond Release requests, please contact me at (970) 929-2238.

Sincerely,



Kathleen G. Welt
Environmental Engineer III

cc: D. Finnerty, ARKL
L. Simmons, CDRMS
W. Norris, MCC
J. Wilczek, MCC

Appendix E

Plug and Abandonment Reports

RACS, LLC

22235 H75 Rd., Delta, CO 81416

(970) 874-7393

WELL ABANDONMENT REPORT

Date 10-20-2019

Well Identification

Owner Mountain Coal Company

Well Number E6-13

Well Location (township & range) Section 4, T14S, R90W

(Lat / Long) N 38°51'53.5623", W 107°26'55.9182"

County Gunnison

State Colorado

Elevation 8105

Existing Well Details

Is a well drillers report available? ☒ Yes ☐ No

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

Hole Depth 838 Feet Hole Diameter 12.25 Inches

Surface Casing type / Wt. Steel / Size 14" Depth 20

Intermediate Casing Type / Wt. Steel / 36# Size 9 5/8" Depth 838'

Completion Blank Casing Type / Wt. Steel / 20# Size 7" Depth From 719 To 760

Completion Perf casing Type / Wt. Steel / 20# Size 7" Depth From 760 To 838

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

Notes Casing crushed @ 121'

Abandonment Details

Reason for Abandonment No Longer needed

Bridge Plug type 9 5/8" RTJP

TD of well or Bridge Plug Depth 121' Feet

Total fluid volume of well from TD or Bridge Plug 388 Gallons

Total volume of fluid used 376 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 9-25-19

Depth (Feet)		Material Used	Quantity	Density
From	To		Gal. / CuFt. / Sks.	Lbs./Gal.
121'	120'	9 5/8"Rubber Top Job Plug		
120'	104'	Bentonite Chips	53 / 7 / 10	
104'	4'	Type I-II Cement	323 / 43 / 31	15.6 PPG

Notes

* All depths are from top of surface casing

WELL ABANDONMENT REPORT

Date 10-20-2019

Well Identification

Owner Mountain Coal CompanyWell Number E7-1Well Location (township & range) Section 11, T14S, R90W(Lat / Long) N 38°51'23.7527", W 107°25'17.4357"County GunnisonState ColoradoElevation 8378'

Existing Well Details

Is a well drillers report available? ☒ Yes ☐ NoNature of use & current status Methane Drainage Well / Shut InHole Depth 1203 Feet Hole Diameter 12.25 InchesSurface Casing type / Wt. Steel / Size 14" Depth 20'Intermediate Casing Type / Wt. Steel / 36# Size 9 5/8" Depth 1,118'Completion Blank Casing Type / Wt. Steel / 20# Size 7" Depth From 1071' To 1116'Completion Perf casing Type / Wt. Steel / 20# Size 7" Depth From 1116' To 1203'Static Fluid Level Depth N/A Feet - Artesian Flow None GPM - Shut-In Pressure N/A PSINotes Casing crushed @ 37'

Abandonment Details

Reason for Abandonment No Longer neededBridge Plug type 9 5/8" RTJPTD of well or Bridge Plug Depth 37' FeetTotal fluid volume of well from TD or Bridge Plug 120 GallonsTotal volume of fluid used 124 GallonsMethod of sealing material placement through 2 3/8 tubingCasing cut to 3' Ft. below surface P&A Marker type NoneDate of Abandonment Completion 9-17-19

Depth (Feet)		Material Used	Quantity	Density
From	To		Gal. / CuFt. / Sks.	Lbs./Gal.
37'	36'	9 5/8"Rubber Top Job Plug		
36'	23'	Bentonite Chips	53 / 7 / 10	
23'	3'	Type I-II Cement	71 / 9.5 / 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 10-20-2019

Well Identification

Owner Mountain Coal Company

Well Number E7-2

Well Location (township & range) Section 11, T14S, R90W

(Lat / Long) N 38°51'23.8973", W 107°25'19.7536"

County Gunnison

State Colorado

Elevation 8404'

Existing Well Details

Is a well drillers report available? ☒ Yes ☐ No

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

Hole Depth 1224 Feet Hole Diameter 12.25 Inches

Surface Casing type / Wt. Steel / Size 14" Depth 40

Intermediate Casing Type / Wt. Steel / 36# Size 9 5/8" Depth 1,117'

Completion Blank Casing Type / Wt. Steel / 20# Size 7" Depth From 1075' To 1138'

Completion Perf casing Type / Wt. Steel / 20# Size 7" Depth From 1138' To 1224'

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

Notes Casing crushed @ 78'

Abandonment Details

Reason for Abandonment No Longer needed

Bridge Plug type 9 5/8" RTJP

TD of well or Bridge Plug Depth 78' Feet

Total fluid volume of well from TD or Bridge Plug 249 Gallons

Total volume of fluid used 213 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 9-17-19

Depth (Feet)		Material Used	Quantity	Density
From	To		Gal. / CuFt. / Sks.	Lbs./Gal.
78'	77'	9 5/8"Rubber Top Job Plug		
77'	65'	Bentonite Chips	37 / 7.7/ 11	
65'	3'	Type I-II Cement	176 / 23.6 / 20	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 10-20-2019

Well Identification

Owner Mountain Coal Company

Well Number E7-3

Well Location (township & range) Section 2, T14S, R90W

(Lat / Long) N 38°51'25.1819", W 107°25'24.5716"

County Gunnison

State Colorado

Elevation 8458'

Existing Well Details

Is a well drillers report available? ☒ Yes ☐ No

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

Hole Depth 1263 Feet Hole Diameter 12.25 Inches

Surface Casing type / Wt. Steel / Size 14" Depth 40

Intermediate Casing Type / Wt. Steel / 36# Size 9 5/8" Depth 1,164'

Completion Blank Casing Type / Wt Steel / 20# Size 7" Depth From 1111' To 1177'

Completion Perf casing Type / Wt Steel / 20# Size 7" Depth From 1177' To 1263'

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

Notes Casing crushed @ 30'

Abandonment Details

Reason for Abandonment No Longer needed

Bridge Plug type 9 5/8" RTJP

TD of well or Bridge Plug Depth 30' Feet

Total fluid volume of well from TD or Bridge Plug 94 Gallons

Total volume of fluid used 110.5 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 9-17-19

Depth (Feet)		Material Used	Quantity	Density
From	To		Gal. / CuFt. / Sks.	Lbs./Gal.
30'	29'	9 5/8"Rubber Top Job Plug		
29'	26'	Bentonite Chips	26.5 / 3.5 / 5	
26'	3'	Type I-II Cement	84 / 11.23 / 8	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 7-1-2020

Well Identification

Owner Mountain Coal Company

Well Number E7-4

Well Location (township & range) T14S R90W SEC3

(Lat / Long) N 38.8574 W 107.4256

County Gunnison

State Colorado

Elevation 8500

Existing Well Details

Is a well drillers report available? ☐ Yes ☒ No

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

Hole Depth 1285 Feet Hole Diameter 12 Inches

Surface Casing type / Wt. Steel / Size 14" Depth 20'

Intermediate Casing Type / Wt. Steel / 36# Size 9 5/8" Depth 1169'

Completion Blank Casing Type / Wt Steel / 20# Size 7" Depth From 1140' To 1169'

Completion Perf casing Type / Wt Steel / 20# Size 7" Depth From 1169' To 1285'

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

Notes Casing crushed @ 99'

Abandonment Details

Reason for Abandonment No Longer needed

Bridge Plug type 9 5/8" RTJP

TD of well or Bridge Plug Depth 98' Feet

Total fluid volume of well from TD or Bridge Plug 305 Gallons

Total volume of fluid used 312 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 6-10-20

Depth (Feet)		Material Used	Quantity	Density
From	To		Gal. / CuFt. / Sk.	Lbs./Gal.
99'	98'	9 5/8" Rubber Top Job Plug		
98'	71'	Bentonite Chips	95 / 12.6 / 18	
71'	4'	Type I-II Cement	217 / 29 / 22	15.6 PPG

Notes

* All depths are from top of surface casing

WELL ABANDONMENT REPORT

Date 10-20-2019

Well Identification

Owner Mountain Coal CompanyWell Number E7-5Well Location (township & range) Section 3, T14S, R90W(Lat / Long) N 38°51'28.2289", W 107°25'41.9998"County GunnisonState ColoradoElevation 8294'

Existing Well Details

Is a well drillers report available? ☒ Yes ☐ NoNature of use & current status Methane Drainage Well / Shut InHole Depth 1057 Feet Hole Diameter 12.25 InchesSurface Casing type / Wt. Steel / Size 14" Depth 20'Intermediate Casing Type / Wt. Steel / 36# Size 9 5/8" Depth 964'Completion Blank Casing Type / Wt. Steel / 20# Size 7" Depth From 905' To 968'Completion Perf casing Type / Wt. Steel / 20# Size 7" Depth From 968 To 1057Static Fluid Level Depth N/A Feet - Artesian Flow None GPM - Shut-In Pressure N/A PSINotes Casing crushed @ 152'

Abandonment Details

Reason for Abandonment No Longer neededBridge Plug type 9 5/8" RTJPTD of well or Bridge Plug Depth 152' FeetTotal fluid volume of well from TD or Bridge Plug 488 GallonsTotal volume of fluid used 439 GallonsMethod of sealing material placement through 2 3/8 tubingCasing cut to 3' Ft. below surface P&A Marker type NoneDate of Abandonment Completion 9-24-19

Depth (Feet)		Material Used	Quantity	Density
From	To		Gal. / CuFt. / Sks.	Lbs./Gal.
152'	151'	9 5/8"Rubber Top Job Plug		
151'	135'	Bentonite Chips	53 / 7.7 / 10	
135'	51'	Type I-II Cement	238 / 32 / 27	15.6 PPG
51'	10'	Super Plug Bentonite	129 / 17 / 3	
10'	3'	Type I-II Cement	19 / 2.6 / 2	15.6 PPG

Notes

* All depths are from top of surface casing

WELL ABANDONMENT REPORT

Date 7-1-2020

Well Identification

Owner Mountain Coal CompanyWell Number E7-6Well Location (township & range) T14S R90W SEC3(Lat / Long) N 38.8584 W 107.4310County GunnisonState ColoradoElevation 8236

Existing Well Details

Is a well drillers report available? ☐ Yes ☒ NoNature of use & current status Methane Drainage Well / Shut InHole Depth 975 Feet Hole Diameter 12 InchesSurface Casing type / Wt. Steel / Size 14" Depth 20"Intermediate Casing Type / Wt. Steel / 36# Size 9 5/8" Depth 898'Completion Blank Casing Type / Wt Steel / 20# Size 7" Depth From 839 To 898Completion Perf casing Type / Wt Steel / 20# Size 7" Depth From 898 To 975Static Fluid Level Depth N/A Feet - Artesian Flow None GPM - Shut-In Pressure N/A PSINotes Casing crushed @ 213'

Abandonment Details

Reason for Abandonment No Longer neededBridge Plug type 9 5/8" RTJPTD of well or Bridge Plug Depth 213' FeetTotal fluid volume of well from TD or Bridge Plug 678 GallonsTotal volume of fluid used 686 GallonsMethod of sealing material placement through 2 3/8 tubingCasing cut to 3' Ft. below surface P&A Marker type NoneDate of Abandonment Completion 6-25-20

Depth (Feet)		Material Used	Quantity	Density
From	To		Gal. / CuFt. / Sk.	Lbs./Gal.
213'	212'	9 5/8" Rubber Top Job Plug		
212'	194'	Bentonite Chips	58 / 7.7 / 11	
194'	25'	Super Plug Bentonite	560 / 74.75 / 13	15.6 PPG
25'	4'	Type I-II Cement	68 / 8.26 / 7	

Notes

* All depths are from top of surface casing

RACS, LLC

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WELL ABANDONMENT REPORT

Date 10-20-2019

Well Identification

Owner Mountain Coal Company

Well Number E7-7

Well Location (township & range) Section 3, T14S, R90W

(Lat / Long) N 38°51'32.0668", W107°25'59.0596"

County Gunnison

State Colorado

Elevation 8266'

Existing Well Details

Is a well drillers report available? ☒ Yes ☐ No

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

Hole Depth 998 Feet Hole Diameter 12.25 Inches

Surface Casing type / Wt. Steel / Size 14" Depth 20

Intermediate Casing Type / Wt. Steel / 36# Size 9 5/8" Depth 892'

Completion Blank Casing Type / Wt. Steel / 20# Size 7" Depth From 851' To 915'

Completion Perf casing Type / Wt. Steel / 20# Size 7" Depth From 915 To 998

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

Notes Casing crushed @ 45'

Abandonment Details

Reason for Abandonment No Longer needed

Bridge Plug type 9 5/8" RTJP

TD of well or Bridge Plug Depth 45' Feet

Total fluid volume of well from TD or Bridge Plug 139 Gallons

Total volume of fluid used 285 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 9-24-19

Depth (Feet)		Material Used	Quantity	Density
From	To		Gal. / CuFt. / Sks.	Lbs./Gal.
45'	44'	9 5/8"Rubber Top Job Plug		
44'	31'	Bentonite Chips	21 / 2.8 / 4	
31'	4'	Type I-II Cement	264 / 35 / 30	15.6 PPG

Notes

* All depths are from top of surface casing

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WELL ABANDONMENT REPORT

Date 7-1-2020

Well Identification

Owner Mountain Coal Company
Well Number E7-8
Well Location (township & range) T14S R90W SEC3
(Lat / Long) N 38.8594 W 107.4375
County Gunnison State Colorado Elevation 8570

Existing Well Details

Is a well drillers report available? ☐ Yes ☒ No
Nature of use & current status Methane Drainage Well / Shut In
Hole Depth 1300 Feet Hole Diameter 12 Inches
Surface Casing type / Wt. Steel / Size 14" Depth 20'
Intermediate Casing Type / Wt. Steel / 36# Size 9 5/8" Depth 1231'
Completion Blank Casing Type / Wt Steel / 20# Size 7" Depth From 1179' To 1231'
Completion Perf casing Type / Wt Steel / 20# Size 7" Depth From 1231' To 1300'
Static Fluid Level Depth N/A Feet - Artesian Flow None GPM - Shut-In Pressure N/A PSI
Notes Casing crushed @ 261'

Abandonment Details

Reason for Abandonment No Longer needed
Bridge Plug type 9 5/8" RTJP
TD of well or Bridge Plug Depth 261' Feet
Total fluid volume of well from TD or Bridge Plug 830 Gallons
Total volume of fluid used 833 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 6-25-20

Depth (Feet)		Material Used	Quantity	Density
From	To		Gal. / CuFt. / Sks.	Lbs./Gal.
261'	260'	9 5/8"Rubber Top Job Plug		
260'	231'	Bentonite Chips	95 / 12 / 18	
231'	210'	Type I-II Cement	68 / 9 / 7	15.6 PPG
210'	25'	Super Plug	602 / 80.5 / 14	
25'	4'	Type I-II Cement	68 / 9 / 7	

Notes _____

* All depths are from top of surface casing

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WELL ABANDONMENT REPORT

Date 7-1-2020

Well Identification

Owner Mountain Coal Company

Well Number E7-9

Well Location (township & range) T14S R90W SEC3

(Lat / Long) N 38.8598 W 107.4409

County Gunnison

State Colorado

Elevation 8574'

Existing Well Details

Is a well drillers report available? ☐ Yes ☒ No

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

Hole Depth 1277 Feet Hole Diameter 12 Inches

Surface Casing type / Wt. Steel / Size 14" Depth 20'

Intermediate Casing Type / Wt. Steel / 36# Size 9 5/8" Depth 1193'

Completion Blank Casing Type / Wt Steel / 20# Size 7" Depth From 1152 To 1193

Completion Perf casing Type / Wt Steel / 20# Size 7" Depth From 1193 To 1277

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

Notes Casing crushed @ 186'

Abandonment Details

Reason for Abandonment No Longer needed

Bridge Plug type 9 5/8" RTJP

TD of well or Bridge Plug Depth 186' Feet

Total fluid volume of well from TD or Bridge Plug 603 Gallons

Total volume of fluid used 876 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 6-25-20

Depth (Feet)		Material Used	Quantity	Density
From	To		Gal. / CuFt. / Sk.	Lbs./Gal.
186'	185'	9 5/8" Rubber Top Job Plug		
185'	156'	Bentonite Chips	95 / 14.4 / 18	
156'	135'	Type I-II Cement	68 / 8.26 / 7	15.6 PPG
135'	25'	Super Plug	645 / 86.25 / 15	
25'	4'	Type I-II Cement	68 / 8.26 / 7	

Notes

* All depths are from top of surface casing

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WELL ABANDONMENT REPORT

Date 10-20-2019

Well Identification

Owner Mountain Coal Company

Well Number E7-10

Well Location (township & range) Section 3, T14S, R90W

(Lat / Long) N 38°51'36.7813", W 107°26'36.8979"

County Gunnison

State Colorado

Elevation 8312

Existing Well Details

Is a well drillers report available? ☒ Yes ☐ No

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

Hole Depth 1039 Feet Hole Diameter 12.25 Inches

Surface Casing type / Wt. Steel / Size 14" Depth 20'

Intermediate Casing Type / Wt. Steel / 36# Size 9 5/8" Depth 964'

Completion Blank Casing Type / Wt. Steel / 20# Size 7" Depth From 915' To 958'

Completion Perf casing Type / Wt. Steel / 20# Size 7" Depth From 958' To 1039'

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

Notes Casing crushed @ 92'

Well was dead, not blowing

Abandonment Details

Reason for Abandonment No Longer needed

Bridge Plug type 9 5/8" RTJP

TD of well or Bridge Plug Depth 92' Feet

Total fluid volume of well from TD or Bridge Plug 294 Gallons

Total volume of fluid used 307 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 9-25-19

Depth (Feet)		Material Used	Quantity	Density
From	To		Gal. / CuFt. / Sks.	Lbs./Gal.
92'	91'	9 5/8"Rubber Top Job Plug		
91'	73'	Bentonite Chips	69 /9.1 / 13	
73'	4'	Type I-II Cement	238 / 32 / 27	15.6 PPG

Notes

* All depths are from top of surface casing

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WELL ABANDONMENT REPORT

Date 10-20-2019

Well Identification

Owner Mountain Coal Company

Well Number E7-11

Well Location (township & range) Section 4, T14S, R90W

(Lat / Long) N 38°57'39.9612", W 107°26'49.6305"

County Gunnison

State Colorado

Elevation 8009'

Existing Well Details

Is a well drillers report available? ☒ Yes ☐ No

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

Hole Depth 699 Feet Hole Diameter 12.25 Inches

Surface Casing type / Wt. Steel / 36# Size 14" Depth 20'

Intermediate Casing Type / Wt. Steel / 20# Size 9 5/8" Depth 638'

Completion Blank Casing Type / Wt. Steel / 20# Size 7" Depth From 572' To 613'

Completion Perf casing Type / Wt. Steel / 20# Size 7" Depth From 613' To 699'

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

Notes Casing crushed @ 31'

Abandonment Details

Reason for Abandonment No Longer needed

Bridge Plug type 9 5/8" RTJP

TD of well or Bridge Plug Depth 31' Feet

Total fluid volume of well from TD or Bridge Plug 97 Gallons

Total volume of fluid used 80 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 9-25-19

Depth (Feet)		Material Used	Quantity	Density
From	To		Gal. / CuFt. / Sks.	Lbs./Gal.
31'	30'	9 5/8"Rubber Top Job Plug		
30'	22'	Bentonite Chips	27 / 3.5 / 5	
22'	4'	Type I-II Cement	53 / 7 / 6	15.6 PPG

Notes

* All depths are from top of surface casing

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WELL ABANDONMENT REPORT

Date 7-1-2020

Well Identification

Owner Mountain Coal Company

Well Number E8-1

Well Location (township & range) T14S R90W SEC11

(Lat / Long) N 38.8527 W 107.4235

County Gunnison

State Colorado

Elevation 8267'

Existing Well Details

Is a well drillers report available? ☐ Yes ☒ No

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

Hole Depth 1007 Feet Hole Diameter 12 Inches

Surface Casing type / Wt. Steel / Size 14" Depth 20'

Intermediate Casing Type / Wt. Steel / 36# Size 9 5/8" Depth 880'

Completion Blank Casing Type / Wt Steel / 20# Size 7" Depth From 833 To 880

Completion Perf casing Type / Wt Steel / 20# Size 7" Depth From 880 To 1007

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

Notes Casing crushed @ 49'

Abandonment Details

Reason for Abandonment No Longer needed

Bridge Plug type 9 5/8" RTJP

TD of well or Bridge Plug Depth 49' Feet

Total fluid volume of well from TD or Bridge Plug 146 Gallons

Total volume of fluid used 139.5 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 6-17-20

Depth (Feet)		Material Used	Quantity	Density
From	To		Gal. / CuFt. / Sks.	Lbs./Gal.
49'	48'	9 5/8" Rubber Top Job Plug		
48'	39'	Bentonite Chips	26.5 / 3.5 / 5	
39'	4'	Type I-II Cement	113 / 14.16 / 12	15.6 PPG

Notes

* All depths are from top of surface casing

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WELL ABANDONMENT REPORT

Date 7-1-2020

Well Identification

Owner Mountain Coal Company
Well Number E8-2
Well Location (township & range) T14S R90W SEC11
(Lat / Long) N 38.8534 W 107.4244
County Gunnison State Colorado Elevation 8269'

Existing Well Details

Is a well drillers report available? ☐ Yes ☒ No
Nature of use & current status Methane Drainage Well / Shut In
Hole Depth 1007 Feet Hole Diameter 12 Inches
Surface Casing type / Wt. Steel / Size 14" Depth 20'
Intermediate Casing Type / Wt. Steel / 36# Size 9 5/8" Depth 920'
Completion Blank Casing Type / Wt Steel / 20# Size 7" Depth From 859' To 920'
Completion Perf casing Type / Wt Steel / 20# Size 7" Depth From 920' To 1007'
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 801 Gallons
Total volume of fluid used 797 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 6-17-20

Depth (Feet)		Material Used	Quantity	Density
From	To		Gal. / CuFt. / Sks.	Lbs./Gal.
251'	250'	9 5/8" Rubber Top Job Plug		
250'	217'	Bentonite Chips	106 / 14 / 20	
217'	201'	Type I-II Cement	53 / 7 / 6	15.6 PPG
201'	20'	Super Plug	473 / 63 / 11	
20'	4'	Type I-II Cement	165 / 7 / 6	

Notes _____

* All depths are from top of surface casing

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WELL ABANDONMENT REPORT

Date 7-1-2020

Well Identification

Owner Mountain Coal Company

Well Number E8-3

Well Location (township & range) T14S R90W SEC10

(Lat / Long) N 38.8536 W 107.4259

County Gunnison

State Colorado

Elevation 8236'

Existing Well Details

Is a well drillers report available? ☐ Yes ☒ No

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

Hole Depth 962 Feet Hole Diameter 12 Inches

Surface Casing type / Wt. Steel / Size 14" Depth 20'

Intermediate Casing Type / Wt. Steel / 36# Size 9 5/8" Depth 878'

Completion Blank Casing Type / Wt. Steel / 20# Size 7" Depth From 829' To 878'

Completion Perf casing Type / Wt. Steel / 20# Size 7" Depth From 878' To 962'

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

Notes Casing crushed @ 188'

Abandonment Details

Reason for Abandonment No Longer needed

Bridge Plug type 9 5/8" RTJP

TD of well or Bridge Plug Depth 188' Feet

Total fluid volume of well from TD or Bridge Plug 547 Gallons

Total volume of fluid used 669 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 6-17-20

Depth (Feet)		Material Used	Quantity	Density
From	To		Gal. / CuFt. / Sks.	Lbs./Gal.
188'	187'	9 5/8" Rubber Top Job Plug		
187'	158'	Bentonite Chips	95 / 12.6 / 18	
158'	93'	Type I-II Cement	65 / 7 / 6	15.6 PPG
93'	20'	Super Plug	344 / 46 / 8	
20'	4'	Type I-II Cement	165 / 7 / 6	

Notes

* All depths are from top of surface casing

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WELL ABANDONMENT REPORT

Date 7-1-2020

Well Identification

Owner Mountain Coal Company

Well Number E8-4

Well Location (township & range) T14S R90W SEC10

(Lat / Long) N 38.8538 W 107.4275

County Gunnison

State Colorado

Elevation 8174'

Existing Well Details

Is a well drillers report available? ☐ Yes ☒ No

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

Hole Depth 913 Feet Hole Diameter 12 Inches

Surface Casing type / Wt. Steel / 36# Size 14" Depth 20'

Intermediate Casing Type / Wt. Steel / 36# Size 9 5/8" Depth 818'

Completion Blank Casing Type / Wt. Steel / 20# Size 7" Depth From 767' To 818'

Completion Perf casing Type / Wt. Steel / 20# Size 7" Depth From 818' To 913'

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

Notes Casing crushed @ 99'

Abandonment Details

Reason for Abandonment No Longer needed

Bridge Plug type 9 5/8" RTJP

TD of well or Bridge Plug Depth 99' Feet

Total fluid volume of well from TD or Bridge Plug 321 Gallons

Total volume of fluid used 554 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 6-17-20

Depth (Feet)		Material Used	Quantity	Density
From	To		Gal. / CuFt. / Sks.	Lbs./Gal.
99'	98'	9 5/8" Rubber Top Job Plug		
98'	69'	Bentonite Chips	95 / 12.6 / 18	
69'	50'	Type I-II Cement	165 / 7 / 6	15.6 PPG
50'	20'	Super Plug	129 / 17 / 3	
20'	4'	Type I-II Cement	165 / 7 / 6	

Notes

* All depths are from top of surface casing

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WELL ABANDONMENT REPORT

Date 7-1-2020

Well Identification

Owner Mountain Coal Company

Well Number E8-5

Well Location (township & range) T14S R90W SEC10

(Lat / Long) N 38.8541 W 107.4304

County Gunnison

State Colorado

Elevation 8071'

Existing Well Details

Is a well drillers report available? ☐ Yes ☒ No

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

Hole Depth 769 Feet Hole Diameter 12 Inches

Surface Casing type / Wt. Steel / Size 14" Depth 20'

Intermediate Casing Type / Wt. Steel / 36# Size 9 5/8" Depth 668'

Completion Blank Casing Type / Wt. Steel / 20# Size 7" Depth From 628' To 668'

Completion Perf casing Type / Wt. Steel / 20# Size 7" Depth From 668'769' To

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

Notes Casing crushed @ 70'

Abandonment Details

Reason for Abandonment No Longer needed

Bridge Plug type 9 5/8" RTJP

TD of well or Bridge Plug Depth 70' Feet

Total fluid volume of well from TD or Bridge Plug 207 Gallons

Total volume of fluid used 220 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 6-25-20

Depth (Feet)		Material Used	Quantity	Density
From	To		Gal. / CuFt. / Sks.	Lbs./Gal.
70'	69'	9 5/8" Rubber Top Job Plug		
69'	51'	Bentonite Chips	58 / 7.7 / 11	
51'	4'	Type I-II Cement	162 / 20 / 17	15.6 PPG

Notes

* All depths are from top of surface casing

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WELL ABANDONMENT REPORT

Date 7-1-2020

Well Identification

Owner Mountain Coal Company

Well Number E8-6

Well Location (township & range) T14S R90W SEC10

(Lat / Long) N 38.8548 W 107.4329

County Gunnison

State Colorado

Elevation 8039'

Existing Well Details

Is a well drillers report available? ☐ Yes ☒ No

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

Hole Depth 723 Feet Hole Diameter 12 Inches

Surface Casing type / Wt. Steel / Size 14" Depth 20'

Intermediate Casing Type / Wt. Steel / 36# Size 9 5/8" Depth 651'

Completion Blank Casing Type / Wt. Steel / 20# Size 7" Depth From 593' To 651'

Completion Perf casing Type / Wt. Steel / Size 7" Depth From 651' To 723'

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

Notes Casing crushed @ 133'

Abandonment Details

Reason for Abandonment No Longer needed

Bridge Plug type 9 5/8" RTJP

TD of well or Bridge Plug Depth 133' Feet

Total fluid volume of well from TD or Bridge Plug 418 Gallons

Total volume of fluid used 416 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 6-25-20

Depth (Feet)		Material Used	Quantity	Density
From	To		Gal. / CuFt. / Sks.	Lbs./Gal.
133'	132'	9 5/8" Rubber Top Job Plug		
132'	108'	Bentonite Chips	78 / 9.8 / 14	
108'	25'	Super Plug	270 / 40 / 7	15.6 PPG
25'	4'	Type I-II Cement	68 / 8.2 / 7	

Notes _____

* All depths are from top of surface casing

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WELL ABANDONMENT REPORT

Date 7-1-2020

Well Identification

Owner Mountain Coal Company

Well Number E8-7

Well Location (township & range) T14S R90W SEC10

(Lat / Long) N 38.8553 W 107.4361

County Gunnison

State Colorado

Elevation 7986'

Existing Well Details

Is a well drillers report available? ☐ Yes ☒ No

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

Hole Depth 669 Feet Hole Diameter 12 Inches

Surface Casing type / Wt. Steel / Size 14" Depth 20'

Intermediate Casing Type / Wt. Steel / 36# Size 9 5/8" Depth 583'

Completion Blank Casing Type / Wt. Steel / 20# Size 7" Depth From 540' To 583'

Completion Perf casing Type / Wt. Steel / 20# Size 7" Depth From 583' To 669'

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

Notes Casing crushed @ 52'

Abandonment Details

Reason for Abandonment No Longer needed

Bridge Plug type 9 5/8" RTJP

TD of well or Bridge Plug Depth 52' Feet

Total fluid volume of well from TD or Bridge Plug 155 Gallons

Total volume of fluid used 150 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 6-25-20

Depth (Feet)		Material Used	Quantity	Density
From	To		Gal. / CuFt. / Sks.	Lbs./Gal.
52'	51'	9 5/8" Rubber Top Job Plug		
51'	25'	Bentonite Chips	82 / 11.2 / 16	
25'	4'	Type I-II Cement	68 / 8.2 / 7	15.6 PPG

Notes

* All depths are from top of surface casing

Appendix F

2021 Phase 1 Bond Release Map

LEGEND

- RECLAIMED 2020
- RECLAIMED 2019
- RECLAIMED 2018
- RECLAIMED 2017
- RECLAIMED 2016
- RECLAIMED 2015
- RECLAIMED 2014
- RECLAIMED 2013
- RECLAIMED 2012
- RECLAIMED 2011
- RECLAIMED 2010
- RECLAIMED 2009
- RECLAIMED 2008
- RECLAIMED 2003-2006
- RECLAIMED 2004
- RECLAIMED 2003
- RECLAIMED 2002
- RECLAIMED 2001
- RECLAIMED 2000
- RECLAIMED 1996

