Statement of Certification

1.) The information contained on this map is accurate to the best of my knowledge, information, and belief.
2.) The certification of this map is based on prior certifications.
3.) Grids are based on the PA State Plane co-ordinate system, South Zone, 1927 NAD.
4.) This map is a true, complete and correct map and survey of all excavations in the Kimberly Run Mine.
5.) This mine has final seals installed (June 17, 2015) at the drifts including all boreholes.

Professional Engineer — Date 6/17/15

This map represents a complete and accurate representation of all underground excavations and is the final map of the mine.

Company or Corporate officer — Date 6/17/15

SHEET 1 | SHEET 2 | SHEET 3

Ventilation Legend

- intake air
- return air
- limited intake air
- kennedy wall
- stopping
- stopping with block removed
- partial wall
- stopping with door
- regulator
- proposed regulator
- sliding airlock door with mandoor & vent hole
- Line canvas
- vent tube
- seal
- seal with water trap
- proposed stopping
- check curtain
- primary escapeway
- alternate escapeway
- overcast with door
- projected overcast
- equipment doors
- air lock doors
- 6' door
- proposed seals
- flooded area
- CO monitor location
- refuge alternative
- crib blocks

LEGEND

- SURFACE PERMIT BOUNDARY
- PERMIT BOUNDARY
- SUBSIDENCE CONTROL PLAN BOUNDARY
- PUBLIC BUILDING
- COMMERCIAL BUILDING (D - DWELLING, B - BARN, S - SHED, G - GARAGE)
- OCCUPIED DWELLING
- UNOCCUPIED STRUCTURE
- UTILITY LINE
- 201 SURFACE PARCEL IDENTIFICATION NUMBER
- SURFACE PROPERTY LINE
- PAVED ROAD (T-Telephone, E-Electric, G-Gas, C-Cable)
- WETLANDS
- POND
- PERENNIAL STREAM
- 2300 LOWER KITTANNING COAL CONTOUR (BOC)
- DEEP MINE OUTLINE (UPPER KITTANNING)
- DEEP MINE OUTLINE (LOWER FREEPORT)
- STABILITY CLASS I-SAFETY FACTOR 2.0 AND 50% MINING OR GREATER
- SAFETY ZONE EVALUATION AREA
- THIS ZONE PROHIBITS MINING UNTIL INFORMATION IS SUBMITTED TO THE BUREAU OF MINE SAFETY & MSHA FOR REVIEW
- APPROVED SAFETY ZONE
- BARRIER - RESERVATION NO MINING UNTIL LEASE IS ACQUIRED
- BARRIER - NO MINING
- WELL/SPRING MONITORING POINT
- WELL/SPRING BACKGROUND POINT
- RECLAIMED SURFACE MINE

RoxCoal, Inc.
Kimberly Run
FINAL MAP

MSHA ID# 36-09549
Lower Kittanning Seam
Permit # 56061301
Somerset Township
Somerset County, PA
Mine Address:
2473 Stutzmantown Road
Somerset, PA 15501
Date: 6-17-15
Scale: 1"=200'
Sheet 3 of 3

The information depicted on this map is accurate to the best of my information, knowledge, and belief. The abandoned mine study was conducted by CME Engineering LP. A complete, detailed report including a narrative and maps for each mine is available at the RoxCoal, Inc. Engineering Department. This study in an exhaustive study based on the best information available. I have reviewed this study and believe it to be true and accurate to the best of my information, knowledge, and belief.

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — JAMES ARTHUR HICKMAN — ENGINEER — PE24016-E

Engineer's seal 6/17/15

5503

MINE KEY	COMPANY NAME	MINE NAME
D1	City Coal Company	City No. 1
D2	William Aust	Aust
D3	Donald Svonavec	No. 19
D4	Cambria Fuel Co.	No. 16
D5	James M. Kimmel	James M. Kimmel
D6	Walter Stutzman	Stutzman
D7	Rice & Schrock Coal Co.	R & S No. 1
D8	Pike Run Coal Co., Inc.	Pike Run #4
D9	Davis Luce & Davis	Unknown
D10	Leonard B. Mostoller	Mostoller #1
D11	Dale E. Or Donald Custer	Unknown
D12	Guy E. Spoerlein	Spoerlein
D13	Harry A. Sager	Sager
D14	Ray M. Beeman	Beeman
D15	Listie Coal Company	Louise
D16	Pennsylvania Smithing Coal Co.	Adams No. 2 / No. 3
D17	Barrows Smokeless Coal Mining Co.	Barrows No. 1
D18	Stauffer-quemahoning Coal Co.	Stauffer No. 3
D19	Stauffer-quemahoning Coal Co.	Mines No. 1 / No. 2
D20	Everett R. Snyder	Snyder No. 20
D21	Luce & Kowaleski	L & K #22
D22	Cambria Fuel Company	Unknown
D23	Unknown	Unknown
D24	Unknown	Unknown
D25	Unknown	Unknown
D27	Trent Coal Company	Trent Mine
D28	Trent Coal Company	Unknown
D29	Listie Coal Company	Louise No. 1 / No. 2
D30	Unknown	Bingler
D31	Unknown	Junior
D32	Somerset County Home & Hospital	Mine #1
D33	Somerset County Home & Hospital	Mine #2
D34	Adams Coal Company	Adams Mine
D35	Meyersdale Coal Company	Wells Creek Mine
D36	Somerset Coal Company	Listie Mine
D37	Meyersdale Coal Company	Stauffer No. 2 Mine
D38	C.I. Davis	Unknown
D39	Unknown	Unknown
D40	C.L.Davis Coal Co.	Helen
D41 & 42	Pleasant Hill Coal Co.	1-C and 2-D
D44	Unknown	John B. Milchak Mine
D46	Unknown	Kimmel Pit

MINE KEY	COMPANY NAME	MINE NAME
S1	Dunlo Coal Co., Inc.	Dunlo Coal Co. Inc.
S2	Unknown	Unknown
S3	Svonavec Inc Steve Svonavec	Listie #2 Svonavec
S4	Denise Coal	Glen Snyder
S5	Unknown	Unknown
S6	H. Clay Stickel Thermal Coal Mining Co.	Martin Unknown
S7	North Cambria Fuel Co Delta Mining, Inc. Deringer Fuel Co. Delta Mining, Inc. Glosser Coal Co.	Spoerlein Spoerlein Woodland No. 3 Spoerlein Glosser
S8	North Cambria Fuel Co Delta Mining, Inc. Delta Mining, Inc. Leonard B. Mostoller Donald Svonavec Coal Co. Thermal Coal Mining Co.	Spoerlein Spoerlein Spoerlein Mostoller #1 No. 19 Unknown
S9	H. Clay Stickel	Martin
S10	Denise Coal Company	Melvin Martin
S11	Thermal Coal Mining Co. Denise Coal Co.	Thermal 18485m
S12	Svonavec Coal Co. Denise Coal Company	Blackburn Unknown
S13	Shade Coal Mining Co.	Gilmour
S14	Denise Coal Co. Unknown Denise Coal Company Denise Coal Company	Arneda No. 1 Pernini Strip Pletcher Sporelein
S15	Denise Coal Company	Pletcher C'
S16	Donald Svonavec Coal Co. Pbs Coals, Inc. Rice & Schrock Coal Co. Gray Contracting & Eng. Denise Coal Company City Coal Co. Gilbert Spangler Denise Coal Co.	No. 19 Denise #1 Rice & Schrock Denise #2 Unknown City Coal Co. Spangler Arneda No. 1
S17	Denise Coal Company Denise Coal Company	Unknown Pletcher
S18	Denise Coal Co. S & B Svonavec Coal Co.	Denise #2 Unknown Svonavec
S19	Denise Coal Company	Denise #2
S20	Shearer Development Corp.	Shade #3
S21	Thermal Coal Mining Co.	Jane
S22	Luce & Kowaleski	#22
S23	Denise Coal Co. Pbs Coals, Inc. Pbs Coals, Inc.	Denise #1 Denise #1 Denise #1 Job No. 23
S24	Croner, Inc. Summit Mines, Inc. The Cardinal Mining Co. Fetterolf Mining, Inc. Shade Mining Co.	Ross Ross Ross Ross Shade #1
S25	Fetterholf Mining Doraville Enterprises Coal Junction Coal Co. Summit Mines, Inc. Star Coal Co. Zubek & Yantus Coal Co.	Trent Mine Trent Trent Sunny Acres Sunny Acres Trent
S26	Summit Mines, Inc. Fetterolf Mining, Inc. Thermal Coal Mining Co. The Cardinal Mining Co. Summit Mines, Inc.	Eldora Strip Eldora Orr Eldora Eldora
S27	Denise Coal Co.	Z & Y
S28	Black Chief Coal Corp. Fetterolf Mining, Inc. Summit Mines, Inc. The Cardinal Mining Co. Fetterolf Mining, Inc. The Cardinal Mining Co. Summit Mines, Inc.	Black Chief #1 Eldora Ross Ross Ross Eldora Eldora
S29	Topper Coal Co.	Topper #1
S30	DEP	Abandoned Mine Rec.
S32	Marquise Mining	State Hospital
S33	Svonavec Coal Co.	Listie #1 Mine

SURFACE MINES

S7 & 8 Spoerlein Strip

BMR shows this was permitted in 1984 by Delta Mining. No augering was permitted. Permit was for D, E, C, and B Seams. Permit area shown on BMR mapping. DEP Cambria Office had no file on this permit. There was no production listed in the annual reports. Field investigation shows signs of past mining activity.

S14 Arneda #1 Strip

BMR mapping lists this as permitted by Denise Coal Co. in 1967 with no augering. There is no file at DEP Cambria Office and no production records in the annual report. Mapping was obtained from Denise Coal Co. maps.

S9 Martin Strip

BMR mapping lists this as permitted by H. Clay Stickel in 1956 with no augering The Cambria Office has no file for this permit. There are no production records in the Annual Report. Mapping was from BMR mylars. Permitting was for the D and E Seams.

S11 Unknown

BMR mapping lists this as permitted by Denise Coal Co. in 1966 for the D Seam with augering. The Cambria Office has no file for this permit. There are no production records in the Annual Report. Mapping was from Denise Coal Co. maps.

S12 Unknown

This mine is not shown on BMR mapping. The mine was identified and delineated by topographic mapping, ortho photography, and field investigation. This mine could have mined the D and C' Seams.

S30 Spoerlein Mine PBS Coals, Inc.

This mine is active and has developed the surface site and face up area for the Kimberly Run Deep Mine. The approved permit area is shown on the Kimberly Run deep Mine permit mapping.

S13 Gilmour Strip Shade Coal Mining Company

This mine is shown on the BMR mylars. It was permitted in 1955 in the D Seam. DEP Cambria Office had no file on this mine. There are no production records in the Annual Reports. Mapping is from BMR mapping.

S15 Pletcher Tract

Not identified in BMR mapping. A map was obtained from Denise Coal Co. Mining is in the D and C' Seams. There are no records at DEP Cambria Office and no production records in the Annual Reports.

S17 Unknown Denise Coal Co.

Shown on BMR mylars as permitted with no augering in 1948 for the D Seam. DEP Cambria Office has no file and there are no production records in the Annual Reports. Mapping is from BMR mylars.

S16 Shaffer Strip Svonavec Coal Co.

Shown on BMR mylars as permitted with no augering in 1956 for the E Seam. DEP Cambria Office has no file and there are no production records in the Annual Reports. Mapping is from BMR mylars.

S21 Jane Strip Thermal Coal Co.

Shown on BMR mylars as permitted with no augering in 1960 for the D and C' Seams. DEP Cambria Office has no file and there are no production records in the Annual Reports. Mapping is from BMR mylars.

S10 Melvin Martin Tract Denise Coal Co.

Shown on BMR mylars as permitted with no augering in the D Seam. DEP Cambria Office has no file and there are no production records in the Annual Reports. Mapping is from BMR mylars.

S32 State Hospital Marquise Mining

This SOAP project was called the State Hospital by Marquise Mining Corp. It was for a small surface mine. This mine was permitted under permit #56970101 to mine the Upper Freeport, Lower Freeport, Upper Kittanning and Middle Kittanning seams. The operation mined the Freeport seams and was backfilled.

S33 Listie #1 Mine

The Listie #1 surface mine, with no augering listed on the BMR list, was permitted by Svonavec Coal Company, issued on April 11, 1984 in the Upper Freeport coal seam. This permit area is shown on the BMR mylars as an index number of 23246, Permit #56813031. CME contacted the DEP Cambria District Office to inquire of all the surface mines listed in the BMR mapping. The Cambria Office did have files for this permit. The Pennsylvania Annual Reports of Mining Activities records were searched at the DEP Uniontown Office for evidence of mining activity under this permit. Area affected determined from permit map reviewed at the DEP Cambria Office and aerial photograhpy.

LOWER KITTANNING (B) SEAM UNDERGROUND MINES

There are no known deep mines in the Lower Kittanning Seam in the permit area.

UPPER KITTANNING (C') SEAM UNDERGROUND MINES

D1 City Coal Co.

This mine is identified on BMR mapping as index no. 8927. A 1"= 200' map (#32) was located at DEP-Coal Center Office. There were no maps at Deep Mine Safety or OSM. Subsidence maps were located at Somerset Co. Recorder of Deeds. These maps show this mine mined into the Listie Mine (Consol 115). This mine was located by property lines, roads, and surface features as well as the abandoned Listie Mine. The mine is interconnected in numerous places to the Consol 115 Mine which is free draining, indicating there is not a mine pool in this mine.

D36 Listie Mine (Consol 115 Mine) Somerset Coal Co. / Consolidation Coal Co.

This permit is identified in the BMR mapping. Six maps were obtained at OSM. One map was found at DMS. No additional mapping was found at DEP Coal Center. The Operation Scarlift report indicates the presence of this mine with a source discharge which is an AMD abatement project. This mine was referenced from BMS(ID 1611) using property lines, roads, and surface features as well as mapping from the Stauffer No. 2 Mine. This is an updip mine that free drains to the portal entries along the western side of the mine and is also connected to the Stauffer No. 2 Mine on the eastern side. The mine pool is monitored at a monitoring well "Consol 115 Monitoring Well" shown on the map. This well indicates there is 2 feet of water on the mine floor.

D30 Bingler Mine

This mine is not found in BMR, OSM, DMS,or DEP Coal Center. The Operation Scarlift Report indicates the presence of this mine and it is found on the WPA Somerset Sheet 9 map for the Upper Kittanning Seam. The mine location was referenced from the Scarlift Report and the WPA maps by property lines roads, and surface features. This mine is an updip mine interconnected to the free draining Louise and Consol 115 Mines.

D40 Helen Mine C.L. Davis Coal Co.

There was no reference to this mine at BMR, OSM, DEP Coal Center, or Operation Scarlift. DMS map (#3326) shows a mine opening for the Winters Pit. Maps acquired from Alumbough Coal Co. revealed two maps for this mine and also referred to the Winters Pit. The Helen Mine is interconnected to the Louise Mine. The map from the Alumbaugh collection was referenced from property lines, roads, surface features and the adjoining Louise Mine map from DEP Coal Center. From map examination, this mine was a downdip mine that would drain into the free draining Louise Mine.

D46 Kimmel Pit

There is no mention of this mine in WPA, BMR, OSM, DEP Coal Center, or Operation Scarlift. DMS had a map that showed an opening. It would be a down dip mine and would have mined into the Louise Mine if developed in the direction shown. The opening is outside the permit boundary. The mine opening was place on the map from surface features found on Map 3326 from DMS.

D29 Louise Mine #1&#2 Listie Coal Co.

This mine is not identified in the BMR mapping, DMS mapping, or the OSM mapping. DEP Coal Center produced a map file no. 719. This shows part of the Louise Mine in relation to the D seam workings. The total extent of the UK mine is not shown. The mine is shown on the WPA map Somerset Sheet 9, UK Seam. Operation Scarlift Report references the Louise Mine in the UK seam with the outline of the mine resembling that in the DEP map and the WPA map. The mine is referenced from the DEP and WPA maps by property lines, roads, surface features, as well as adjacent mine maps. The mine is an up dip mine conducive to free draining. The portal locations are reclaimed and are formed. There is evidence of a passive treatment system at the portal site. This mine is interconnected to the Consol 115 Mine. A large portion of this mine has been stripped. The portal area was stripped and drill hole records show that the D Seam was stripped in the area of holes 5214, and 5219. A monitoring well, "Louise Mine Monitoring Well", has been drilled as shown on the map. There is no mine pool in this mine because the Louise Mine workings have been stripped or proven by the monitoring well to be dry. The monitoring well indicates no water. Referenced from WPA and DEP 719.

D31 Junior Mine Listie Coal Co.

This mine is not identified in BMR, DMS, Operation Scarlift Report or DEP Coal Center. Map no. 303770 was found at OSM which had the mine opening located. The mine is shown on the WPA Somerset Sheet 9 UK Seam. The mine was reference to the OSM and WPA maps by property lines, roads, and surface features. This mine is the northern portion not shown of OSM map 344433 for the Gilmour-Jones Mine. This mine was developed up dip. The portals are at the lowest elevation. There is no evidence of these portals, they are in a residential area. Water is drained by way of a pipe from the Junior Mine and Gilmour Jones Mine to the Onstead treatment system operated by the Wells Creek Watershed Ass'n. Referenced from OSM 344433 and WPA mapping.

D28 Gilmour Jones Mine Gilmour & Jones Coal Co.(1945-1952) Pleasant Hill Coal Co.(1952-1958)

This mine is shown on the BMR mapping. OSM has map no. 344433 which does not show all of the mine workings but Louise #1 and #2 are shown. DMS had no mapping, and DEP Coal Center had no additional mapping. The Operation Scarlift Report indicates the presence of this mine. OSM map 344433 was referenced by property lines roads, and surface features. This mine was the successor to the Junior Mine (D31). This mine is interconnected to the Junior Mine and drains into the Junior Mine. Referenced from OSM 344433 and a map from Alumbaugh collection.

LOWER FREEPORT (D) SEAM UNDERGROUND MINES

D41 & D42 Pleasant Hill Coal Company Mines

These mines are not mentioned in BMR, OSM, DMS, DEP Coal Center, or Operation Scarlift. A map obtained from Alumbough Coal Co. is titled Pleasant Hill Coal Co., D Seam. The map shows two distinct D Seam mines. D 41 overlies the C' Seam Gilmour Jones Mine. The D Seam mine is interconnected to the underlying C' mine through two rock slopes identified on the mapping, thus allowing drainage to the C' Seam. D42 overlies the Louise C' Mine and expands the extents of the D Seam Louise Mine. Both D Seam Mines were referenced to the base map from property lines, roads, surface features, and the mine mapping for the Gilmour-Jones Coal Co. Mines. Reference from Alumbaugh Map 147.

D15 Listie Coal Co.

This mine is not on BMR, OSM, or DMS. DEP Coal Center has map no. 719 showing D seam workings and limited workings of the C' Louise Mines. The Scarlift Report shows both C' and D workings. The Louise Mine map from DEP was referenced using property lines, roads, and surface features and adjacent mine maps. This is an updip mine. A portion of the mine could contain a small mine pool. The free draining C' Louise mine is below this mine.

D10 Mostoller #1 Mine

This mine is not shown on the OSM, DMS, DEP Coal Center, or Operation Scarlift mapping. The permit is shown on BMR mapping. PA Annual Reports indicate the mine was active for 2 years. This mine was referenced from BMR map 8932 location. This mine overlies the Bingler Mine and may have been daylighted by the extensive surface mining in this area. The mine was an up dip mine. There is no evidence of a mine discharge.

D12 Spoerlein Mine

There is no mention of this mine in OSM, DMS or DEP Coal Center records. The permit is located on BMR map 9186 and indicated on the Operation Scarlift Report, which correlates to the BMR mapping. The mine was referenced utilizing the BMR map location. This mine overlies the Bingler Mine and may have been daylighted by extensive surface mining in this area. This mine is also shown on the Consol 115 Mine C' map.

D13 Sager Mine

There are no maps of this mine at OSM, DMS, DEP Coal Center, or in the Operation Scarlift Report. The permit is identified on the BMR mapping. The mine opening is shown on the Denise Coal Co. maps. Mapping has not been located for this mine. The PA Annual Reports indicate that 2000 tons were mined between 1960 and 1962. This mine location was referenced by property lines, roads, and surface features shown from surface mine mapping of the Denise Coal Co. This mine may have been completely daylighted by D Seam stripping.

D39 Unknown

No reference is found at BMR, OSM, DMS, DEP Coal Center, or Operation Scarlift. This mine was located from a surface Mine map from the Denise Coal Company. This mine was referenced from the Denise map by property lines, roads, and surface features. The area appears to be a reclaimed surface mine.

D7 Rice & Schrock Mine Rice & Schrock Coal Co.

DMS and Operation Scarlift do not list this mine. The permit is shown on BMR mapping. OSM has a map 344469 labeled as a completion map. DEP Coal Center has the same map as OSM. The mine was referenced from the OSM map by property lines, roads, and surface features. The mine had several drifts along the crop all oriented up dip. This mine would be free draining.

D17 Barrow No. 1 Mine

This mine is not shown on mapping of BMR, OSM, DMS, or DEP Coal Center. Operation Scarlift shows this mine adjacent to the Aust Mine which map shows the Barrows openings. WPA shows a line outline for Barrows. This mine was referenced from the WPA Somerset Sheet 9 map and a map of Denise Coal Co.. This mine is outside the permit boundary.

D2 Aust Mine

There is no mention of this mine in the mapping of DMS, DEP Coa Center, or Operation Scarlift. BMR references the permit and OSM map 344437 shows the proposed openings and mining area. The map is certified but of poor quality. The Aust mine was referenced using property lines, roads, and surface features. This was proposed to be an up dip mine.

D44 John B. Milchak Mine

The permit is identifed on BMR map 8685. There were no maps available at OSM, DMS, DEP Coal Center, or Operation Scarlift. There are no production records in the Annual Reports. The property owner said there was a test pit in this area but the mine did not open due to thin seam thickness.

D18 A&B Stauffer Quemahoning Coal Co.

BMR and DEP Coal Center had no maps of this mine. Maps were located at OSM 303793, 303913, 344447, the most recent) and DMS (3010). The mine was referenced from OSM 344447 using property lines, roads, and surface features. This was an up dip mine with commonality to Stauffer No. 2 and the Listie Mines through a rock tunnel slope connecting the D Seam with the C' seam. Any mine pool would drain into the Upper Kittanning mines.

D9 Pike Run Coal Co. Mine

The mine is not shown on mapping from OSM, DMS, DEP Coal Center, or Operation Scarlift. It is identified on BMR mapping. Maps of Denise Coal Co. indicate this mine was mined by Davis, Luce, and Davis. The mine was oriented utilizing property lines, roads and surface features as well as OSM map 344472. This is an up dip mine.

D3 (Svonavec 19), D8 (Pike Run #4), D21(L&K 22)

These mines are all interconnected and are part of a large conglomerate of mines. There are portals on the up-dip and down-dip sides thus promoting drainage from all of the interconnected mines. D3 has numerous maps available from OSM, DMS, and DEP Coal Center. DMS 3072 was used for referencing. D8 has numerous maps available from OSM, DMS, and DEP Coal Center. DMS 3072 was the primary map used for referencing. D21 has numerous maps located at OSM, DMS, and DEP Coal Center. DMS 3072 was the primary map used for referencing. These mines were referenced using property lines, roads, and surface features