# RoxCoal, Inc.
# Agustus Mine
# Final Map

MSHA ID# 36-08636
C.M.A.P. NO. 56951301
1499 Gahagen Road
Central City, PA 15926
Upper Kittanning Seam
Date: 7-11-13
Scale: 1"=200'
Sheet 2

The information on this map is accurate to the best of my knowledge, information and belief.

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
RICHARD ALAN WAGNER, JR.
ENGINEER
PE077664

7-11-13
Date

This map represents the complete and accurate locations of all excavations and is the Final Map.

Company or Corporate Officer

7/12/13
Date

## PROCEDURES USED TO LOCATE ADJACENT UNDERGROUND MINES

**Upper Kittanning (C' Seam)**

**Huskin Coal Mining Co., Huskin #4 Designation A**
This mine is located from maps of Gahagen Coal Co., formerly Huskin Coal Co. These maps are 1"=400' and 1"=100'. They both show the same mining boundary. The map is dated November 8, 1967. The mine surveyor's name is not shown. The survey date is December 31, 1949, which area is marked 1". This area is visible on the mining boundary on both 1"=100' and 1"=400' maps. Production records reveal 1949-1952 tons, 1950-3611 tons, 1951-4051 tons and 1952-1402 tons. There was no mention of production after 1952. The maps are not certified and not marked final. Orientation is by property lines shown on both the Huskin maps and the Agustus Mine map. Orientation was also accomplished by overlaying a 1"=400' map of the Huskin #4(C') Mine, which shows the Huskin #3(B) Mine drifts, on a 1"=400' map of the Reitz Coal Co. Mines #3 & #4(B) which includes a map showing Huskin #3(B) Mine, the Huskin #4(C') drifts and surface features including Twp Rd. T92. TR 792 was then traced onto the Huskin #4Mine map and then the orientation of the #4 Mine could be compared relative to TR 792 on the Agustus Mine maps. Map files at OSM, DMS and DMO were searched.

**PBS Coals, Inc., formerly J&S Sales, Shade #1 Designation D**
This mine is located from a final, certified map (1"=400' & 1"=100') showing mining completed on February 12, 1973. The PA Annual Reports show 6219 tons mined in 1973. The mine is not referenced after 1973. This mine is connected to Reits No. 7 and Reits No 3C' (Upper). Map files of OSM, DMS, and DMO were searched.

The mine workings on the 1"=400' final certified map and the 1"=100' final certified maps are identical. The mine workings were located on the Agustus maps from the 1"=100' maps. The digitizing was accomplished using the 1"=100' maps. Bearings which were used to make the 1"=100' certified maps. All of the orientation points were digitized From the Shade #1 maps and plotted on the Agustus mine maps. The power borehole that appears on the Shade #1 maps was surveyed in the field by RoxCoal, Inc. The orientation points are: A and F - intersections of T729 & T792 B - power borehole: C - intersection of T729 & farm lane D - intersection of T729 & T795; E - intersection of T729 & T617; and F - intersection of T729 & T92.

Shade #1 is connected to the Reitz #3 C' Mine. This mine discharges in Central City at an elev. of 2215'. Both of these mines are interconnected to the Reitz #3 and #4 B Seam mines through the gob and discharge in Central City at the B Seam discharge at an elev. of 2180' behind the fire hall. In addition, the Shade #1 Mine was inadvertently interconnected to the B Seam Laurel Mine due to pillaring in the Laurel Mine in 1977. A borehole was drilled into the Shade Mine as noted on this map. The water elevation at this borehole is 2242 feet. The water elevation was also checked at an old power borehole and found to be 2243'. The permit research reflects a mine pool elev. of 2240'. The old portal elevations for the Shade #1 Mine are at 2442'. There is no discharge at this location. The static water level in the Laurel Mine (B Seam) is 2244'.

**Lower Kittanning (B) Seam**

**Huskin Coal Mining Co., Huskin #3 & #6 Designation B**
This mine is located from a 1"=400' map of Gahagen Coal Co., formerly Huskin Coal Mining Co. It is titled: Mine No. 3-"B" Seam. The date on the legend is December 23, 1925. The map is not marked final and is not certified. The survey index shows mining until September 1952 in an area designated C'. Production statistics from PA Annual Reports show this mine stopped production in 1954 when 7330 tons were mined. The Annual Reports show 17855 tons produced in 1953. The working of the mine are depicted on the Reits No. 4 & No. 3 map (see below, Designation C). These workings are not as extensive as the workings on the Huskin #3 map. Orientation was checked by overlaying the Huskin #3 map over the Reitz #3 C' Mine map (see above, Designation C) which shows the Huskin #3 mine and mine surface features including TR 792. TR 792 was traced onto the Huskin #3 map and then orientation of the #3 Mine could be compared relative to TR 792 on the Agustus Mine maps.

**Reitz Coal Co., Reitz No. 3 Designation C**
This mine is located from maps, (1"=400') obtained from Serwind and is not marked final and is not certified. This map is a map of Reitz 4 & 3 Mines and the date on the legend is 1918. The latest mining on this map is marked 6/63. Examination of 1"=100' map reveals mining on 2/17/72 in the northwest portion of the mine, not adjacent to the Agustus permit area. Records of this mine production could not be found in the PA Bituminous Annual Reports. Orientation is by surface features, specifically roads TR 792 and TR 617 in the Agustus permit area.

**Laurel Mines Corporation, Laurel Mine Designation E**
This mine is located from maps of Laurel Mines Corp. The map is a certified map (1"=200') dated 07/09/1985. The mining boundary and orientation correlate with that on another certified map of Laurel Mines Corp. (1"=500') dated August, 1954, and certified on 01/24/1956. Production records reveal no production after this date. The workings on these maps also correlate with these on a 1"=200' map titled Mine Works At Time Of Temporary Abandonment and dated 4/25/1985. Orientation is by surface features, specifically TR 617 and numerous dwellings depicted on both the certified Laurel Mines Corp. maps and the Agustus Mine maps.

**RoxCoal, Inc., Longview Mine Designation F**
This mine is located from maps of RoxCoal, Inc. The map is a certified map. Final mining was completed July 31, 2002. The Agustus Mine is located east of the Longview Mine. The Agustus Mine is in the C' seam and the Longview Mine is in the B seam. There is approx. 90' of interburden. Check surveys were conducted by RoxCoal throughout the Longview Mine including to the eastern boundary. Orientation is from mine surveys.

The following mines are located on the Harrisburg Blueprint Co. maps. There is no evidence that these mines were opened. There is no reference to them and no mine maps available.

**Reits 10 (C' Seam) Not Shown**
This is depicted on the HBPC map as Reference No. 9398 located North of Shade #1. Berwind officials are not aware of a Reits 10 Mine ever being in existence. It would be isolated from the Agustus permit area by Shade #1.

**Russell M. Pile Mine (E Seam) Not Shown**
This is depicted on the HBPC map as Reference No. 8794 located 6600 feet west and 4900 feet south of the Huskin #3 portals. This would be 2500 feet south of Route 30. No reference to a Russell M. Pile #3 Mine could be found.

**The Pittsburgh Summit Coal Co. Pleasm #1 Mine (C & B Seam) Designation L**
These portals are shown on the HBPC maps as Reference No. 9024 and located on the C Seam and B Seam and are shown within the Huskin #3 B Seam Mine. There is no reference to this mine in any agency map files and no mention of this company mining any coal from an underground mine in the PA Annual Reports. There is mention in the Annual Reports of production from the surface mine (Burg #1) of The Pittsburgh Summit Coal Co.

**Gahagen Coal Co., Huskin Mine (E Seam) Not Shown**
This mine is shown to the east of the Huskin #4 Mine. There are no references to this mine in the agency map files. This mine is shown over 1000 feet from the permit line.

**ABANDONED MINE LEGEND**

**UNDERGROUND MINES**

| DESIGNATION | MINE NAME | COMPANY NAME | SEAM |
|---|---|---|---|
| A | Huskin #4 | Gahagen Coal Co. | UK |
| B | Huskin #3 & #6 | Gahagen Coal Co. | UK |
| C | Reitz #3 | Reitz Co. | UK |
| D | Shade #1 | PBS Coals, Inc. | UK |
| E | Laurel Mine | Laurel Mines Corp. | UK |
| F | Pleasm #1 | Pittsburgh Summit Coal Co. | B, C |

**SURFACE MINES**

| DESIGNATION | MINE NAME | COMPANY NAME | SEAM |
|---|---|---|---|
| I | Job 24 | PBS Coals, Inc. | LF, UF |
| J | Job 9 | PBS Coals, Inc. | LF, UF |
| K | | Constantino Coal Co. | LF, MK, LF, UF |
| L | | Huskin Coal Mining Co. | LF, UF |
| M | | NEM Coals, Inc. | LF, MK, LF, UF |
| N | Godin Mine | Joseph Godin | LF, MK, LF, UF |
| O | Swallow Mine | Pentrex Resources, Inc. | LF, MK, LF |
| P | Burg #1 | Pittsburgh Summit Coal Co. | UF |
| Q | Hagan #2 | J. K. Hagan | UF |

## Notes:

1. The certification of this map is based on prior certifications.
2. There are no underground seals installed.
3. All drill holes and wells into the mine have been grouted.
4. Original mapping done by Killam Assoc.
5. Grids are located on PA State Plane Coordinate System South Zone 1927 NAD.
6. Distance between seams: LK-UK 95' avg. UK-LF 90' avg.
7. There are no known active oil or gas wells within the permit area.
8. There are no underground mines above the Agustus mine.
9. Mining completed on 10-16-12.
10. Equipment removed 12-14-12
11. Seals completed 5-6-13
12. Accuracy of closed loop surveys exceeds 1/10,000.
13. Final survey spad number is 3148.

**LEGEND FOR ABANDONED DEEP MINES:**
- (A) = HUSKIN #4 (Upper Kittanning C' Seam)
- (B) = HUSKIN #3 (Lower Kittanning B Seam)
- (C) = REITZ #3 (Lower Kittanning B Seam)
- (D) = SHADE #1 (Upper Kittanning C' Seam)
- (E) = LAUREL (Lower Kittanning B Seam), Inactive

## PROCEDURES USED TO LOCATE ADJACENT SURFACE MINES

**Lower Kittanning, Upper Kittanning, Lower Freeport, Upper Freeport Seams**

**Joseph Godin, Godin Mine Designation N**
Located from Harrisburg Blueprint Co. map Reference No. 2054

**Lower Kittanning, Middle Kittanning, Lower Freeport, Upper Freeport Seams**

**Constantino Coal Co. Designation H**
Located from Harrisburg Blueprint Co. map Reference No. 8790

**NEM Coals, Inc. Designation I**
Located from Harrisburg Blueprint Co. map Reference Nos. 22739 and 23223

**Lower Kittanning, Middle Kittanning, Lower Freeport Seams**

**Pentrex Resources, Inc., Swallow Mine Designation O**
Located from Harrisburg Blueprint Co. map Reference No. 2168

**Pittsburgh Summit Coal Co., Burg #1 Mine Designation P**
Located from Harrisburg Blueprint Co. map Reference No. 9023

**Lower Freeport, Upper Freeport Seams**

**PBS Coals, Inc., Job 24 Designation F**
Located from PBS Coals, Inc., Job 24 mine map.
Also located from Harrisburg Blueprint Co. map Reference No. 23863 & 22741.

**PBS Coals, Inc. Job 9 Designation G**
Located from PBS Coals, Inc., Job 9 mine map and Harrisburg Blueprint Co. map Reference No. 27805.

**Lower Kittanning Seam**

**Huskin Coal Mining Co. Designation I**
Located by field observation.

**Upper Freeport Seam**

**J. K. Hagan #2 Mine Designation Q**
Located from Harrisburg Blueprint Co. map Reference No. 8696

**VENTILATION LEGEND**

- STOPPING WITH DOOR
- STOPPING WITH HOLE
- PERMANENT STOPPING
- PARTIAL WALL
- PROPOSED STOPPING
- REGULATOR
- CANVAS CHECK
- OVERCAST
- FINAL SEALS
- LINE CANVAS
- EQUIPMENT DOORS
- 6' DOOR
- 6' DOOR WITH HOLE
- CAVED AREA
- FLOODED AREA
- CRIBBED AREA
- CHECK SURVEY STATION

impounded water boundary barrier
Cool contour 2440
Drillholes
Roads
Streams
Property identification number 4
Well & Spring (W) (S)
Not Surveyed

Underground Telephone Line -U-T-
Telephone\Electric Line -T-E-
Water Line -W-
Dwellings
Other buildings
Permit line
Subsidence Control Plan Boundary
Property line
Surface permit boundary
Angle of Draw

SHEET 1 | SHEET 2

Orientation points for the Shade #1 mine are:
A-intersection of SR 160 & T621,
B-power borehole,
C-intersection of T729 & farm lane,
D-intersection of T729 & T795,
E-intersection of T729 & T617,
F-intersection of T729 & T792.

RECEIVED
JUL 22 2013
Dept. of Environmental Protection
California District Office