PROCEDURES USED TO LOCATE UNDERGROUND MINES ADJACENT TO THE PERMIT AREA

Upper Freeport ("E" Seam) Mines

Consol 121 Mine Map Symbol A
The Consol 121 Mine was digitized from a mylar (1"=200') made from the hardcopy maps (1"=100') located at the University of Pittsburgh Library Archives. The mining boundary on these maps is the same as that on maps (1"=100') at the Bureau of Deep Mine Safety at Uniontown marked "Abandoned Feb. 1, 1955". The most northwestern point of the mine was located in the field by GPS and these were also used for orientation purposes. The mining boundary is derived from the 1"=200' mylar and the 1"=100' maps from California. None of the maps are certified or marked final. The PA Bituminous Coal Annual Reports indicate that the 121 Mine was known as Acosta-Gray Co., Acosta No. 2 Mine from 1950 to Feb. 7, 1955 and was operated by Pittsburgh Coal Co. after Feb. 7, 1955. The mine was then abandoned by Pittsburgh Coal Co. in April, 1955. There is no tonnage reported from Feb. 7 to April, 1955 on thereafter. Notations on the map indicate mining as late as 2/1/55 bordering the Miller Mine. The orientation is the same as on a Consol map (1"=500') of the Upper Freeport workings in the Consol 120 Mine. Consol's mylar map (1"=500') is the only source for the Consol 121 reserve maps, but not as extensive. Orientation is from rocks in the area, specifically the intersection of T-448 and SR 4002, the intersection of SR 985 and SR 4002, the intersection of T-445 and Bluebird Road, and the intersection of T-450 and SR 4002. These intersections were located by GPS. Also, five property corners for the Sipesville Elementary School property that were surveyed on the Consol map were located by GPS and plotted on the Miller Mine map. Finally, two (2) water boreholes that were plotted on the Consol mine maps were located in the field by GPS and these were also used for orientation purposes.

Cosgrove Mention Thermal #14 Mine aka Hillsworth Coal CO. #3 Mine Map Symbol N
This mine was plotted from a Consol map (1"=500') provided by Musser Engineering, Inc. This map depicts Upper Kittanning mining in Jenner Township including the Consol 121 Mine. There is no date marked final and not certified or dated. Officials of Dunamis Resources, Inc. stated that they stripped into this mine, but did not strip the entire workings. There were no maps of this mine found at Deep Mine Safety, PA DEP (California), or OSM map files. There is a Harrisburgh Blueprint Co. map that shows a permit area adjacent to the Gindlesperger Mine workings area which is also shown on the Consol 1"=500' map as a reservation, plainistered 1-7-59. The Consol map also shows a reservation in the area of the Consol 121 Mine. The location of the drawing of the mine is shown on MF4 maps 8-1-3 and 8-1-5. This depiction matches the workings plotted on the Consol 1"=500' map. The conclusion is that although the mine workings touch onto the 30 acre reserve area, the mine is as depicted on the Consol 1"=500' map and the MF4 maps as denoted by the line drawing. A search of the tax assessment records and the Coal Activity Reports at the courthouse were inconclusive.

PROCEDURES USED TO LOCATE UNDERGROUND MINES BELOW THE PERMIT AREA

Upper Kittanning ("C Prime" Seam) Mines

Consol 120 Mine Map Symbol B
The Consol 120 Mine was digitized from maps donated by Consol to the University of Pittsburgh Library Archives. These maps are 1"=100' and were reduced to 1"=200' for digitizing purposes. The mining boundary is the same as that on the 1"=100' map at Deep Mine Safety that was marked Abandoned April, 1955. This mining boundary is the same as that on the reserve map provided by Consol, titled Consolidation Coal Co. Jenkinson Project Reserve Areas, and the Reserve Maps (1"=1000') provided by Consol. Also, the following maps were viewed at the Consol Energy engineering offices that reveal the same mining boundary for the 120 Mine: 1) map dated 10-1-55 showing flooded deep mines, and 2) Jennerstown Project Map dated 7-1-79. The 120 Mine was also shown on Consol's 1"=500' map. The conclusion is that the 120 Mine was abandoned by Pittsburgh Coal Co. in 1955. This is documented in the Annual Reports. There is no tonnage, employees, or days worked after 1-7-55 when the mines passed from Acosta-Gray Co. to Pittsburgh Coal Co. or in subsequent years after 1955. There is no final certified map available. The following sources were checked for maps: Consol Energy, PA Deep Mine Safety, Office of Surface Mining in Greentree, PA; California PA DEP office and MSHA District 2 office in Mt. Pleasant, PA. Also, the mine was located in the field by GPS by the intersection of Bluebird Road and T-448, and two intersections of SR 4015 and SR 4008. Also, even the orientation were two property corners of the Sipesville Elementary School property that were surveyed on the Consol map and were located by GPS and plotted on the Miller Mine map.

Unknown Map Symbols D, E, F
There are no maps available for these mines. They are located from maps of the Consol 120 Mine referenced above. Map not marked final or certified.

Wm. Friedline Mine Map Symbol G
There is no map available for this mine. It is located from maps of the Consol 120 Mine referenced above. Map not marked final or certified.

Quemahoning Creek Coal Company, Quemahoning Creek No. 1 Mine Map Symbol I
The Quemahoning Creek No. 1 Mine of the Quemahoning Creek Coal Company was plotted on the Consol 120 Mine 1"=100' and was digitized onto the Miller Mine Map from the Consol 120 map referenced above. The location and boundaries of this mine are the same as that on the Quemahoning Creek Coal Company Property map dated Dec. 16, 1942. According to the Annual Reports, this mine closed in 1920 as there is no tonnage, employees, or days worked after this date. This map was oriented in the same manner as the Consol 120 Mine map. There is no certified final map available.

Hillsworth Coal Co. Mine #2 Map Symbol N
Plotted from maps of the Consol 120 Mine. All map files of Deep Mine Safety and OSM were researched for maps of this mine and the only depiction of this mine is on Consol 120 mine maps.

Quecreek No. 1 Mine, Black Wolf Coal Co. Map Symbol O
This reserve area of the mine was plotted from maps of Black Wolf Coal Co. This is an active mine. The maps are certified.

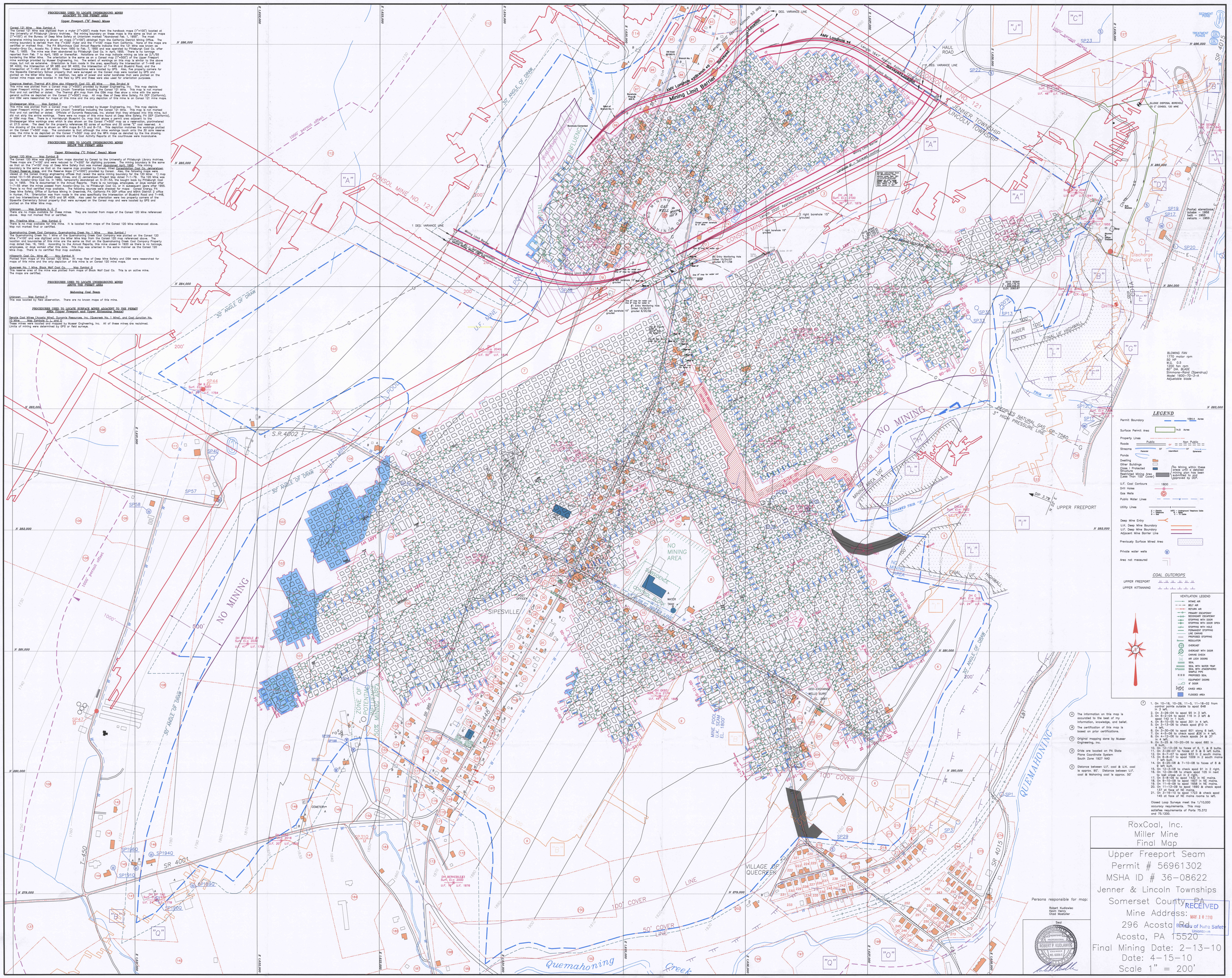
PROCEDURES USED TO LOCATE UNDERGROUND MINES ABOVE THE PERMIT AREA

Mahoning Coal Seam

Unknown Map Symbol P
This was located by field observation. There are no known maps of this mine.

PROCEDURES USED TO LOCATE SURFACE MINES ADJACENT TO THE PERMIT AREA (Upper Freeport and Upper Kittanning Seams)

Senate Coal Mines (Acosta Mine), Dunamis Resources, Inc. (Quecreek No. 1 Mine), and Coal Junction No. 10 Mine Map Symbol Q
These mines were located and mapped by Musser Engineering, Inc. All of these mines are reclaimed. Limits of mining were determined by GPS or field surveys.



LEGEND

- Permit Boundary — 1084.4 Acres
- Surface Permit Area — 14.5 Acres
- Property Lines
- Roads — Public / Non Public
- Streams — Perennial / Intermittent / Diverted
- Ponds
- Dwelling
- Other Buildings
- Class I Protected Structure
- Restricted Mining Area (Less Than 100' Cover) — No Mining within these areas until a detailed mining plan has been submitted and has been approved by DEP.
- U.F. Coal Contours — 1800
- Drill Holes
- Gas Wells
- Public Water Lines
- Utility Lines — E = Electric, T = Telephone, W = Water; UGTC = Underground Telephone Cable, T = To Gate
- Deep Mine Entry
- U.K. Deep Mine Boundary
- U.F. Deep Mine Boundary
- Adjacent Mine Barrier Line
- Previously Surface Mined Area — PROPOSED
- Private water wells
- Area not measured

COAL OUTCROPS

UPPER FREEPORT
UPPER KITTANNING

VENTILATION LEGEND

INTAKE AIR
BELT AIR
RETURN AIR
PRIMARY ESCAPEWAY
SECONDARY ESCAPEWAY
STOPPING WITH DOOR
STOPPING WITH DOOR OPEN
STOPPING WITH HOLE
PERMANENT STOPPING
LINE CANVAS
PROPOSED STOPPING
REGULATOR
OVERCAST
OVERCAST WITH DOOR
CANVAS CHOCK
AIR LOCK DOORS
SEAL
SEAL WITH WATER TRAP
SEAL WITH STAND PIPE
SAMPLE PIPE
PROPOSED SEAL
EQUIPMENT DOORS
6' DOOR
CAVED AREA
FLOODED AREA

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

(B) The certification of this map is based on prior certifications.

(C) Original mapping done by Musser Engineering, Inc.

(D) Grids are located on PA State Plane Coordinate System South Zone 1927 NAD

(E) Distance between U.F. coal & U.K. coal is approx. 90'. Distance between U.F. coal & Mahoning coal is approx. 50'

(F) 1. On 10-16, 10-29, 11-5, 11-18-02 from control points outside to spad 648 in 3 left.
2. On 3-26-04 to spad 95 in 3 left.
3. On 6-2-04 to spad 116 in 3 left & spad 142 in 4 left.
4. On 3-12-08 to spad 301 in 4 left.
5. On 3-13-08 to check spad #10 in 4 left.
6. On 3-30-08 to spad 601 along 6 belt.
7. On 4-5-08 to check spad #26 in 4 left.
8. On 4-22-08 to check spads 34 & 37 in 4 left.
9. On 5-23 & 10-20-08 to spad 680 in 8 butts.
10. On 12-13-06 to faces of 6, 7, & 8 butts.
11. On 3-29-07 to faces of 5 & 6 left butts.
12. On 8-7-07 to spad 933 in 2 south moins.
13. On 2-4-08 to spad 1008 in 2 south moins & 3 left butt.
14. On 6-25-08 & 7-10-08 to faces of 5 & 8 left butt.
15. On 12-3-08 to check spad 91 in 2 right.
16. On 12-29-08 to check spad 105 in next to last cross cut in 2 right.
17. On 8-10-09 to spad 1826 in NE moins.
18. On 9-10-09 to spad 1827 in NE moins.
19. On 11-6-09 to spad 1858 in NE moins.
20. On 11-13-09 to spad 1890 & check spad 137 at face of NE moins.
21. On 3-16-10 to spad 1723 & check spad 145 at face of NE moins rooms to left.

Closed Loop Surveys meet the 1/10,000 accuracy requirements. This map estisfies requirements of Parts 75.372 and 75.1200.

Persons responsible for map:
Robert Kudlawiec
Kevin Henry
Chad Mostoller

Seal: COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT P. KUDLAWIEC No. 022554-E

RoxCoal, Inc.
Miller Mine
Final Map

Upper Freeport Seam
Permit # 56961302
MSHA ID # 36-08622
Jenner & Lincoln Townships
Somerset County, PA
Mine Address:
296 Acosta Road
Acosta, PA 15520
Final Mining Date: 2-13-10
Date: 4-15-10
Scale 1" = 200'

RECEIVED
MAY 10 2010
Bureau of Mine Safety
Uniontown