FINAL MAP

MINE DEVELOPMENT MAP

For

DANA MINING COMPANY of PA., LLC

TITUS MINE

308 Dents Run Road
Morgantown, WV 26501

Intersection of L.R. 30020 & L.R. 30071
In
Dunkard Township, Greene County
Pennsylvania

Scale: 1" = 300' Contour Interval = 5'
Mining conducted to August 6, 2009
Map Date: August 26, 2013

PA Permit No. 30841314
M.S.H.A. ID No. 36-01302

RECEIVED
SEP 3 2013
Bureau of Mine Safety

I, the undersigned, hereby certify that this map is correct and shows all of the information, to the best of my knowledge and belief, as required by the mining laws of this Commonwealth and covers the period ending August 6, 2009.

Kenneth L. Moran, PLS # SU-051236-E

KENNETH L. MORAN
LAND SURVEYOR
SU-051236-E
PENNSYLVANIA

Acknowledged before me, a Notary Public this 26th day of August, 2010.

Steven R. Thorn-Notary Public
My commission expires July 13, 2017

COMMONWEALTH OF PENNSYLVANIA
OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
STEVEN R. THORN
P.O. BOX 1234
INDEPENDENCE, WV 26374
My commission expires July 13, 2017

MAIN PORTAL DATA					
ENTRY	UTM	DIRECTION	BOTTOM ELEV.	% METHANE	% OXYGEN
1	N/A	N/A	879.5'	N/A	N/A
2	103,300	IN	877.7'	0.0	20.9
3	8,700	IN	876.5'	0.0	20.9
4	114,480	OUT	874.9'	0.0	20.6

NOTES:

1) Person responsible for the information contained hereon is Mine Superintendent, Jones Price.

2) Average mining height is 54 inches.

3) Mine phones will be located at each belt drive and dumping point.

4) S.C.S.R's are worn by all miners.

5) The seam being mined is the Sewickley Coal Seam.

6) Permanent Monument Information:
PM #1 N 38,449,534 / E 78,19,016 EL. 896.81 Rebar in concrete
PM #2 N 38,988,499 / E 79,880,061 EL. 94.53 Rebar in concrete
PM #3 N 38,383,565 / E 78,784,452 EL. 935.8 Rebar in concrete

7) There are no known underground mines above this operation.

8) All known Sewickley Coal Seen underground mines are depicted and identified hereon.

9) The Abandoned Dunnopin Mine, operated in the Pittsburgh Coal Seam underlies this operation. (Average interval -130 Feet) (Ore unworky for location and extent)

10) The average interval to the underlying unmined Redstone Coal Seam -60 feet.

11) The hereon signed Professional Surveyor, by his signature, hereby certifies that the underground mine workings as shown hereon accurately located and that all mine boundary corners and monuments were set as shown on the plan as set by him or under his supervision. Surveyor does not certify to the accuracy nor the locations of all surface structures, facilities, oil wells, property lines, surface waters, water wells, surface mined areas, or the location of any coal seam not mined by this operation. This information has been provided by others not under the direct supervision of the signatory.

12) All surveys have been conducted by the closed loop method of traversing to a minimum accuracy of 1 part in 3000.

13) Elevation accuracy is 1/2 of the contour interval.

14) Thin workings mined by Eberhart Coal Company were digitized from map dated 12-31-1939 and certified on 01-14-1941 by Roger Hough, PA #RS 8033E+/-. The signatory does not imply that said workings are true and accurate, but merely a depiction of the Eberhart Coal Map. This information is not reviewed in the certification statement provided hereon.

LEGEND

- Underground survey stations
- Surface survey stations
- Proposed Stopping
- Permanent Stopping
- Check curtains
- Pavement contours, Sewickley Coal Seam
- 4,160 Volt power cable
- Box check
- Stopping with manidoor
- Regulator
- Overcast
- Undercast
- Conveyor Belt and Transfer Point
- Main Mine Fan
- Air lock doors
- Proposed Seal
- Mine Opening Identification
- Proposed pillars to remain for Bleeder airway
- Diamond Core Hole Location
- Property Line
- Primary escapeway
- Secondary escapeway
- Gas / Oil Well
- Partially Pillared Block
- Mine Boundary Line
- Reportable roof fall
- Intake Air
- Return Air
- Belt Air (Green)
- Cannon Air with Belt (yellow)
- Fire Top
- PC Power Center
- BPC Belt Power Center
- BS Belt Starter
- CS Charger Station
- PS Pump and Number
- Constructed Seal
- Vorings as provided by Operator
- Projected Vorings
- Sealed-Abandoned Area
- SCSR Cache Location
- Refuge Chamber Location

DANA MINING COMPANY of PA., INC
SOOLEY BEN MINE
(SEWICKLEY SEAM)
(ABANDONED)

MAIN MINE FAN DATA
MANUFACTURER - JOY
MODEL - HBCP-36
SIZE & TYPE - 36", PROPELLER, EXHAUSTING
FAN RPM - 845
FAN DRIVE - V BELTS
BLADE SETTINGS - SETTING 4
PRESSURE RECORDING GAUGE - 3.4" (CURRENTLY)

MAIN MINE FAN MOTOR DATA
HORSEPOWER - 75
VOLTAGE - 2300/460 PHASE 3
FRAME - 355T
TYPE - B
DESIGN - B
RPM - 1775
ID - K-94631-239-040M
AMPS - 230V-186.2 460V-94.1

ADJACENT UNDERGROUND MINING MATCH POINTS (COORDINATE VALUES SHOWN ARE TITUS MINE BASE)

WARWICK #3/VENTILATION BH	N: 44,383,400 E: 83859.631	PETTITTE No.1/PM #1	N: 39,537.138 E: 31,378.189
WARWICK #3/D NORTH SHAFT	N: 43,658.856 E: 77,774.693	PETTITTE No. 1/PM #2	N: 38,920.569 E: 29,745.721
WARWICK #3/D NORTH SHAFT	N: 50,208.265 E: 89,566.764	PETTITTE No.1 MINE MAXIMUM POINT LOCATION DISCREPANCY = 0.15'	
WARWICK #3 MINE MAXIMUM POINT LOCATION DISCREPANCY = 11.5'			

BREN-MAR/BIG WELL PIPE N: 43,391.562 E: 32,797.115
BREN-MAR/CLAY WELL PIPE N: 39,193.746 E: 31,929.098
BREN-MAR MINE MAXIMUM POINT LOCATION DISCREPANCY = 19.8'

CONVERGENCE ANGLE = 1°07'39"
N 0°00'00" E
N 1°07'39" W (G.N.)

PREPARED BY:
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