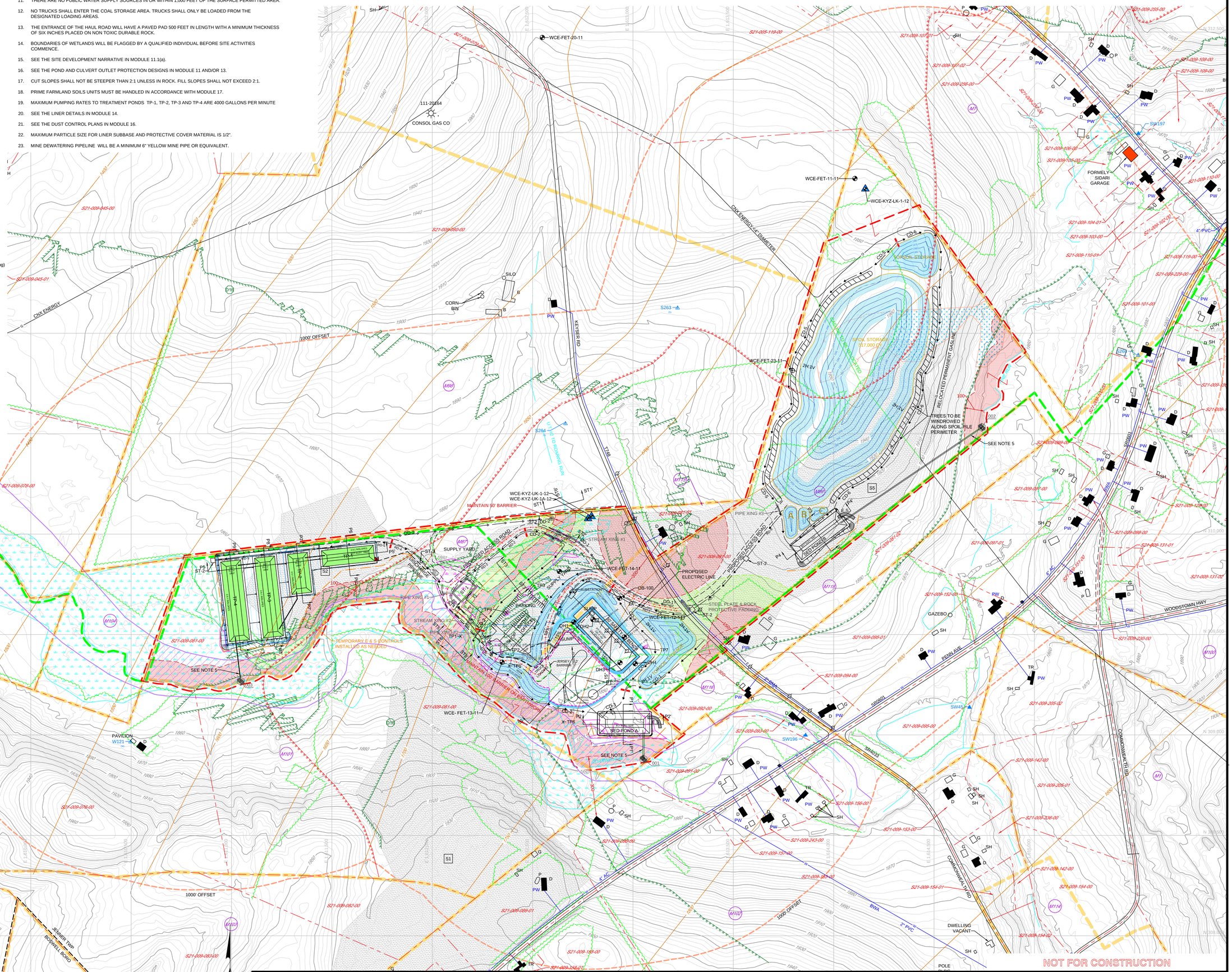
LEGEND

- 84.5 ACS. — SURFACE SITE BOUNDARY
- 6942.1 ACS. — UNDERGROUND PERMIT AND UNDERGROUND SUBSIDENCE BOUNDARY
- PUBLIC BUILDING
- COMMERCIAL STRUCTURE
- OCCUPIED DWELLING (O - DWELLING, TR - TRAILER, B - BARN, SH - SHED, G - GARAGE, P - POOL, M - MISC)
- UNOCCUPIED STRUCTURE
- WCE-FET-2-11 — DRILLHOLE
- CEMETERY
- E — UTILITY LINE (T-Telephone, E-Electric, G-Gas)
- BWA W — BOSWELL WATER AUTHORITY
- CTMA W — CONEMAUGH TOWNSHIP MUNICIPAL AUTORITY
- UTILITY POLE
- FIRE HYDRANT
- S21-009-081-00 — SURFACE PARCEL IDENTIFICATION NUMBER
- SURFACE PROPERTY LINE
- MINERAL OWNERSHIP LINE
- M1 — MINERAL OWNERSHIP IDENTIFICATION
- GRAVEL ROAD
- PAVED ROAD
- 40" CMP — EXISTING CULVERT
- TREE LINE
- WETLANDS
- WETLANDS TO BE REMOVED: 1.92 ACRES
- REPLACEMENT WETLANDS: 2.1 ACRES
- POND
- PERENNIAL STREAM
- INTERMITTENT STREAM
- DRAINAGE COURSE
- 2000 — SURFACE CONTOURS FROM LIDAR (2FT INTERVAL)
- 2100 — PROPOSED SITE CONTOUR (2FT INTERVAL)
- 2000 — LOWER KITTANNING COAL SEAM CONTOUR (BOC)
- UF — UPPER FREEPORT COAL SEAM OUTCROP
- UK — UPPER KITTANNING COAL SEAM OUTCROP
- PREVIOUSLY AFFECTED AREA
- S1 — SURFACE MINE REFERENCE
- D1 — UNDERGROUND MINE OPENING WITH REFERENCE
- D2 — UPPER FREEPORT DEEP MINE OUTLINE
- D3 — UPPER KITTANNING DEEP MINE OUTLINE
- VARIANCE AREA
- BARRIER - NO MINING (Road, Stream, Utility and Dwelling)
- 100 YEAR FLOOD PLAIN - NO MINING
- SURVEYED GASWELL
- NOT SURVEYED GASWELL
- PLUGGED GASWELL
- DD-1 — DIVERSION DITCH
- CD-1 — COLLECTION DITCH
- DITCH SEGMENT
- SEDIMENT POND
- TP-1 — TREATMENT BOX
- TREATMENT PONDS
- 001 — NPDES POINT
- DIKING INSTALLED BY OPERATOR
- GUIDE RAIL TO BE INSTALLED
- ALTERNATE EROSION CONTROLS
- AREA TO BE LINED
- JERSEY BARRIERS
- WELL_NAME — BACKGROUND SAMPLE LOCATION (M) - WELL, (S) - SPRING, (PW) - PUBLIC WATER
- WELL_NAME — MONITORING SAMPLE LOCATION
- WCE-KYZ-UK-1-12 — PIEZOMETER LOCATION
- TP1-X — TEST PITS
- SOILS QUALIFIED AS PRIME FARMLAND
- SOILS QUALIFIED AS PRIME FARMLAND (NEGATIVE DECLARATION)
- TOPSOIL STORAGE AREA
- A B C — TOPSOIL STORAGE AREAS DIVIDED INTO HORIZONS
- SPOIL STORAGE
- S1 S1' — CROSS SECTION LINE (P-POND, ST-STREAM, S-SITE)

NOTES:

1. PROJECT IS LOCATED ON 7 1/2 MIN. BOSWELL AND HOOVERSVILLE USGS QUADRANGLES.
2. ALL CONTOURS, BUILDINGS, ROADS, POLITICAL BOUNDARIES, AND WATERWAYS TAKEN FROM PAMAP, LIDAR DATA, DATED 2006.
3. PROPERTY ID # S21-009-081-00 WAS DEPICTED FROM SURVEY AND S21-005-119-00, S21-009-076-00, S21-009-078-00, S21-009-080-00, S21-009-081-00, S21-009-081-01, S21-009-081-02, S21-009-082-00, S21-009-089-01, S21-009-090-00, S21-009-091-00, S21-009-092-00, S21-009-094-00, S21-009-095-01, S21-009-097-00, S21-009-097-01, S21-009-098-00, S21-009-100-00 AND S21-009-101-00 WERE DEPICTED FROM DEED. ALL OTHER PROPERTY LINES WERE TAKEN FROM SOMERSET COUNTY TAX MAPPING AND DO NOT REPRESENT ACTUAL SURVEY OF THE PROPERTY.
4. GRID COORDINATES ARE NORTH AMERICAN DATUM OF 1983 (NAD 83), PENNSYLVANIA STATE PLANES SOUTH.
5. POND DISCHARGE PIPES WILL NOT BE BURIED BELOW GRADE. THEY WILL BE PLACED ON EXISTING GROUND, NO WETLAND DISTURBANCE WILL OCCUR.
6. REFER TO THE 1" = 100' EXHIBIT 9.1A MAP FOR A MORE DETAILED VIEW OF THE PERMIT AREA.
7. WATER LINE & SEWER LINE INFORMATION PROVIDED BY CONEMAUGH TOWNSHIP MUNICIPAL AUTHORITY AND ALL LOCATIONS ARE APPROXIMATE.
8. TREATMENT PONDS TO BE SYNTHETICALLY LINED.
9. TOPSOIL STORAGE AREAS WILL BE SEEDED AND MULCHED.
10. THE DEWATERING DEVICES FOR SEDIMENT PONDS A & B WILL BE VALVED.
11. THERE ARE NO PUBLIC WATER SUPPLY SOURCES IN OR WITHIN 1,000 FEET OF THE SURFACE PERMITTED AREA.
12. NO TRUCKS SHALL ENTER THE COAL STORAGE AREA. TRUCKS SHALL ONLY BE LOADED FROM THE DESIGNATED LOADING AREAS.
13. THE ENTRANCE OF THE HAUL ROAD WILL HAVE A PAVED PAD 500 FEET IN LENGTH WITH A MINIMUM THICKNESS OF SIX INCHES PLACED ON NON TOXIC DURABLE ROCK.
14. BOUNDARIES OF WETLANDS WILL BE FLAGGED BY A QUALIFIED INDIVIDUAL BEFORE SITE ACTIVITIES COMMENCE.
15. SEE THE SITE DEVELOPMENT NARRATIVE IN MODULE 11.1(a).
16. SEE THE POND AND CULVERT OUTLET PROTECTION DESIGNS IN MODULE 11 AND/OR 13.
17. CUT SLOPES SHALL NOT BE STEEPER THAN 2:1 UNLESS IN ROCK. FILL SLOPES SHALL NOT EXCEED 2:1.
18. PRIME FARMLAND SOILS UNITS MUST BE HANDLED IN ACCORDANCE WITH MODULE 17.
19. MAXIMUM PUMPING RATES TO TREATMENT PONDS TP-1, TP-2, TP-3 AND TP-4 ARE 4000 GALLONS PER MINUTE
20. SEE THE LINER DETAILS IN MODULE 14.
21. SEE THE DUST CONTROL PLANS IN MODULE 16.
22. MAXIMUM PARTICLE SIZE FOR LINER SUBBASE AND PROTECTIVE COVER MATERIAL IS 1/2".
23. MINE DEWATERING PIPELINE WILL BE A MINIMUM 6" YELLOW MINE PIPE OR EQUIVALENT.



NOT FOR CONSTRUCTION

0 200 400 600

PENNSYLVANIA ONE CALL SYSTEM, INC. 1-800-242-1776 STOP - CALL BEFORE YOU DIG!

REVISIONS

No.	By	Date	Description

Drawn By:	PHS
Checked By:	BRC
Date:	12-27-2012
Scale:	1" = 200'
Project No.:	0743-L270
File Name:	KEYSER BASE_01-02-2013.DWG
Drawing:	1 of 1

CME ENGINEERING
CME ENGINEERING LP
975 Georges Station Rd, Ste 100, Greensburg, PA 15601
724-672-4800 FAX: 724-672-4801

DRAFT

SIGN: OF CME MANAGEMENT LLC, GENERAL PARTNER OF CME ENGINEERING LP.

EXHIBIT 9.1: OPERATIONS MAP
Wilson Creek Energy, LLC
Keyser Deep Mine
CMAP # PENDING MSHA ID # PENDING
LOWER KITTANNING SEAM TO BE MINED
CONEMAUGH AND JENNER TOWNSHIPS
SOMERSET COUNTY, PENNSYLVANIA

LEGEND

84.5 ACS. — SURFACE SITE BOUNDARY

WETLANDS

WETLANDS TO BE MITIGATED 1.92 ACRES

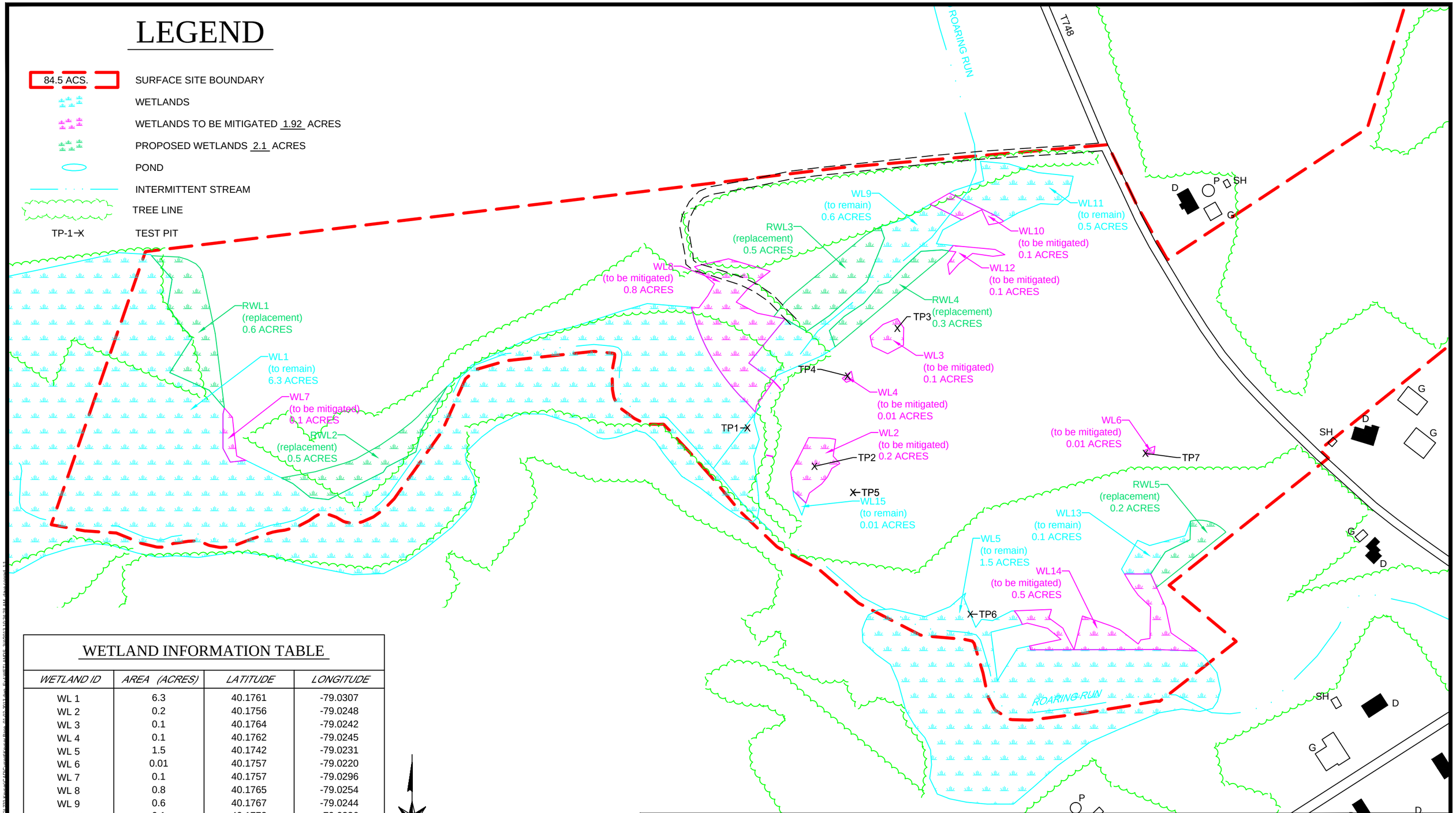
PROPOSED WETLANDS 2.1 ACRES

POND

INTERMITTENT STREAM

TREE LINE

TP-1 — TEST PIT



WETLAND INFORMATION TABLE

WETLAND ID	AREA (ACRES)	LATITUDE	LONGITUDE
WL 1	6.3	40.1761	-79.0307
WL 2	0.2	40.1756	-79.0248
WL 3	0.1	40.1764	-79.0242
WL 4	0.1	40.1762	-79.0245
WL 5	1.5	40.1742	-79.0231
WL 6	0.01	40.1757	-79.0220
WL 7	0.1	40.1757	-79.0296
WL 8	0.8	40.1765	-79.0254
WL 9	0.6	40.1767	-79.0244
WL 10	0.1	40.1772	-79.0236
WL 11	0.5	40.1774	-79.0232
WL 12	0.1	40.1770	-79.0235
WL 13	0.1	40.1751	-79.0220
WL 14	0.5	40.1746	-79.0223
WL 15	0.1	40.1754	-79.0249

PENNSYLVANIA ONE CALL SYSTEM, INC.
1-800-242-1776
STOP - CALL BEFORE YOU DIG!

Drawn By:	PHS
Checked By:	SWH
Date:	12-27-2012
Scale:	1"=200'
Project No.:	0743-L270
File Name:	KEYSER BASE_01-02-2013.DWG
Drawing:	1 of 1

CME
ENGINEERING
CME ENGINEERING LP
975 Georges Station Rd, Ste 100, Greensburg, PA 15601
724-672-4800 FAX: 724-672-4801

EXHIBIT 4: WETLANDS DELINEATION MAP

Wilson Creek Energy, LLC

Keyser Deep Mine

CONEMAUGH AND JENNER TOWNSHIPS
SOMERSET COUNTY, PENNSYLVANIA