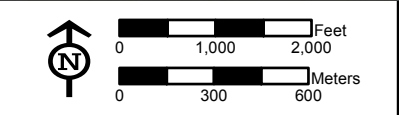
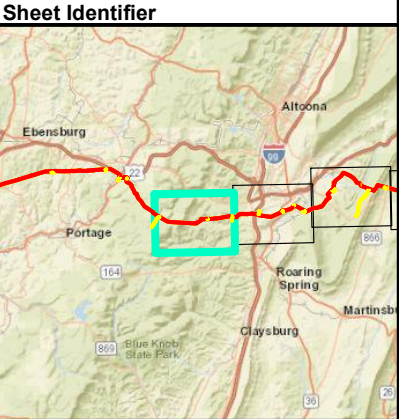




- Legend**
- Access Road
 - Alignment Centerline
 - Limit of Disturbance
 - Block Valve/Station
 - Brallier and Harrel Formations Undevided (Dbh)
 - Catskill Formation (Dck)
 - Foreknobs Formations (Df)
 - Scherr Formation (Ds)
 - Rockwell Formation (MDr)
 - Burgoon Sandstone (Mb)
 - Mauch Chunk Formation (Mmc)
 - Allegheny Formation (Pa)
 - Pottsville Formation (Pp)



**GEOLOGIC UNIT MAP
ATTACHMENT 5-1
PENNSYLVANIA PIPELINE PROJECT
NOVEMBER 12, 2016 ALIGNMENT
SUNOCO LOGISTICS, L.P.
BLAIR COUNTY,
PENNSYLVANIA**

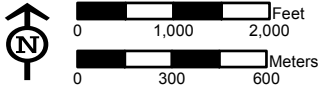
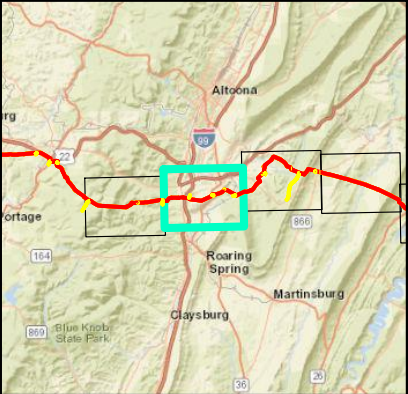


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- Legend**
- Access Road
 - Alignment Centerline
 - Limit of Disturbance
 - Block Valve/Station
 - Keyser and Tonoloway Formations Undevided (DSkt)
 - Brallier and Harrel Formations Undevided (Dbh)
 - Hamilton Group (Dh)
 - Onondaga and Old Port Formations undevided (Doo)
 - Scherr Formation (Ds)
 - Bald Eagle Formation (Obe)
 - Juniata Formation (Oj)
 - Reedsville Formation (Or)
 - Bloomsburg and Mifflintown Formations undevided (Sbm)
 - Clinton Group (Sc)
 - Tuscarora Formation (St)
 - Wills Creek Formation (Swc)
 - Wills Creek Formation through Mifflington Formation undevided (Swm)

Sheet Identifier



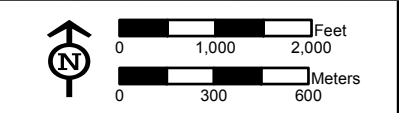
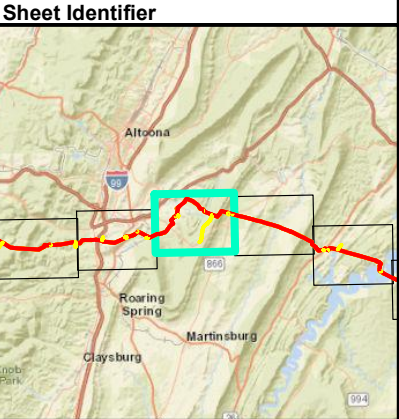
**GEOLOGIC UNIT MAP
ATTACHMENT 5-2
PENNSYLVANIA PIPELINE PROJECT
NOVEMBER 12, 2016 ALIGNMENT
SUNOCO LOGISTICS, L.P.
BLAIR COUNTY,
PENNSYLVANIA**



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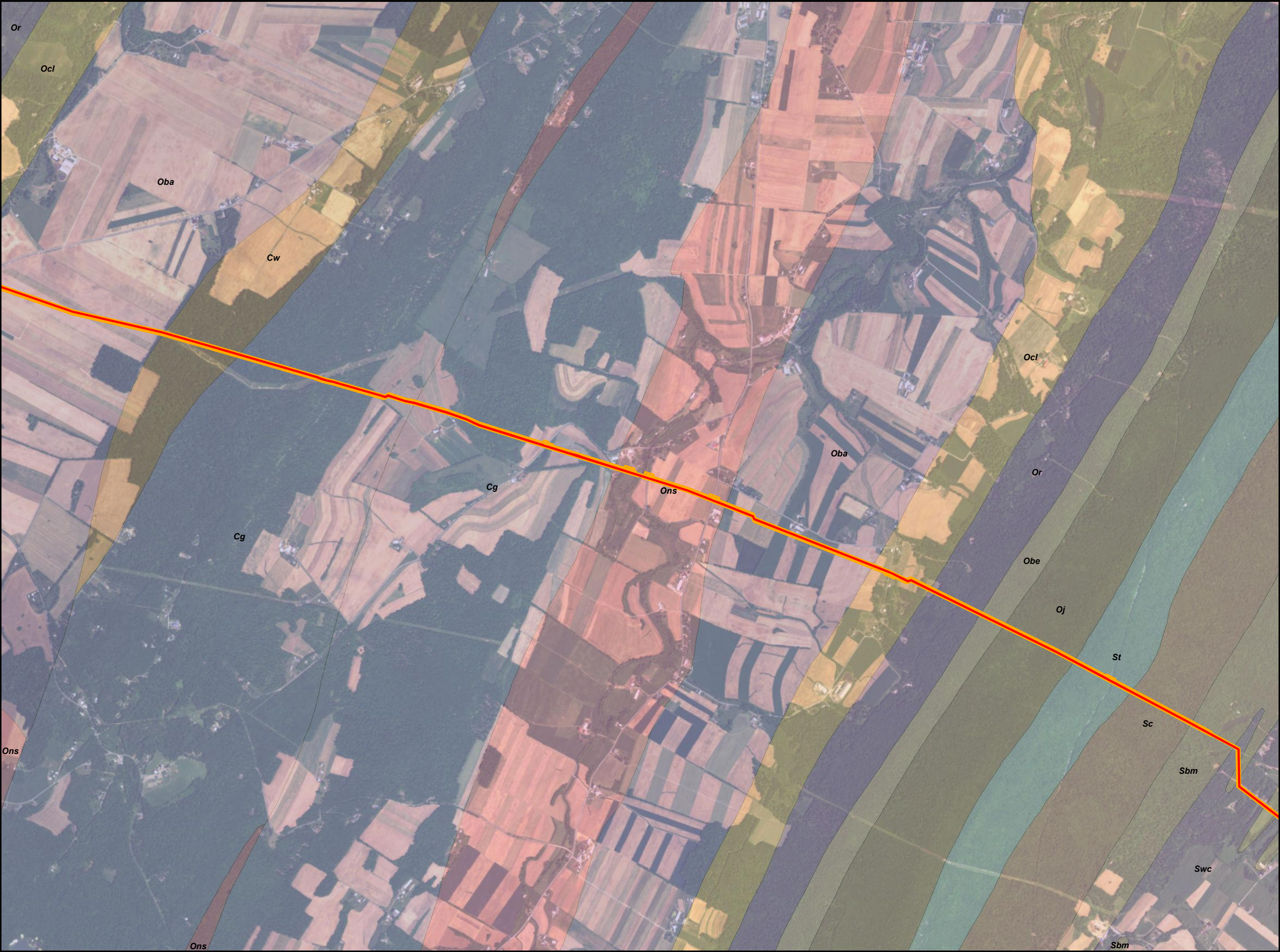
- Legend**
- Access Road
 - Alignment Centerline
 - Limit of Disturbance
 - Block Valve/Station
 - Gatesburg Formation (Cg)
 - Keyser and Tonoloway Formations Undivided (DSkt)
 - Brallier and Harrel Formations Undivided (Dbh)
 - Hamilton Group (Dh)
 - Onondaga and Old Port Formations undivided (Doo)
 - Bellefonte and Axemann Formations undivided (Oba)
 - Bald Eagle Formation (Obe)
 - Coburn Formation through Loysburg Formation undivided (Ocl)
 - Juniata Formation (Oj)
 - Nittany and Stonehenge/Larke Formations undivided (Ons)
 - Reedsville Formation (Or)
 - Bloomsburg and Mifflintown Formations undivided (Sbm)
 - Clinton Group (Sc)
 - Tuscarora Formation (St)
 - Wills Creek Formation (Swc)
 - Wills Creek Formation through Mifflington Formation undivided (Swm)



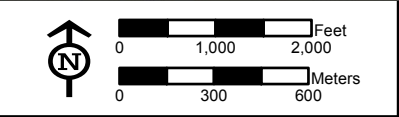
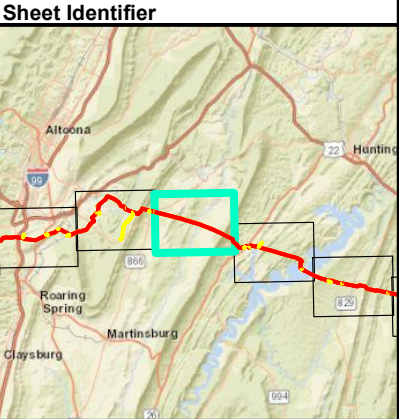
**GEOLOGIC UNIT MAP
ATTACHMENT 5-3
PENNSYLVANIA PIPELINE PROJECT
NOVEMBER 12, 2016 ALIGNMENT
SUNOCO LOGISTICS, L.P.
BLAIR COUNTY,
PENNSYLVANIA**



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- Legend**
- Access Road
 - Alignment Centerline
 - Limit of Disturbance
 - Block Valve/Station
 - Gatesburg Formation (Cg)
 - Warrior Formation (Cw)
 - Bellefonte and Axemann Formations undivided (Oba)
 - Bald Eagle Formation (Obe)
 - Coburn Formation through Loysburg Formation undivided (Ocl)
 - Juniata Formation (Oj)
 - Nittany and Stonehenge/Larke Formations undivided (Ons)
 - Reedsville Formation (Or)
 - Bloomsburg and Mifflintown Formations undivided (Sbm)
 - Clinton Group (Sc)
 - Tuscarora Formation (St)
 - Wills Creek Formation (Swc)



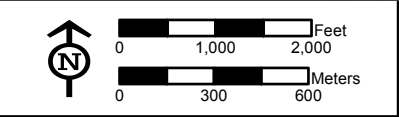
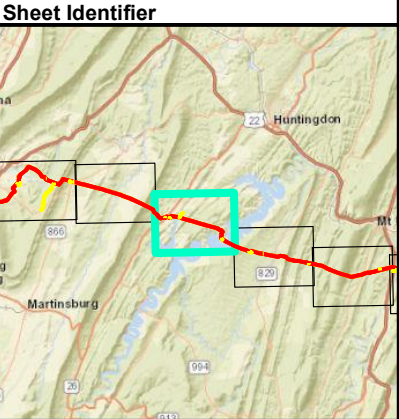
**GEOLOGIC UNIT MAP
ATTACHMENT 5-4
PENNSYLVANIA PIPELINE PROJECT
NOVEMBER 12, 2016 ALIGNMENT
SUNOCO LOGISTICS, L.P.
BLAIR, HUNTINGDON COUNTY,
PENNSYLVANIA**



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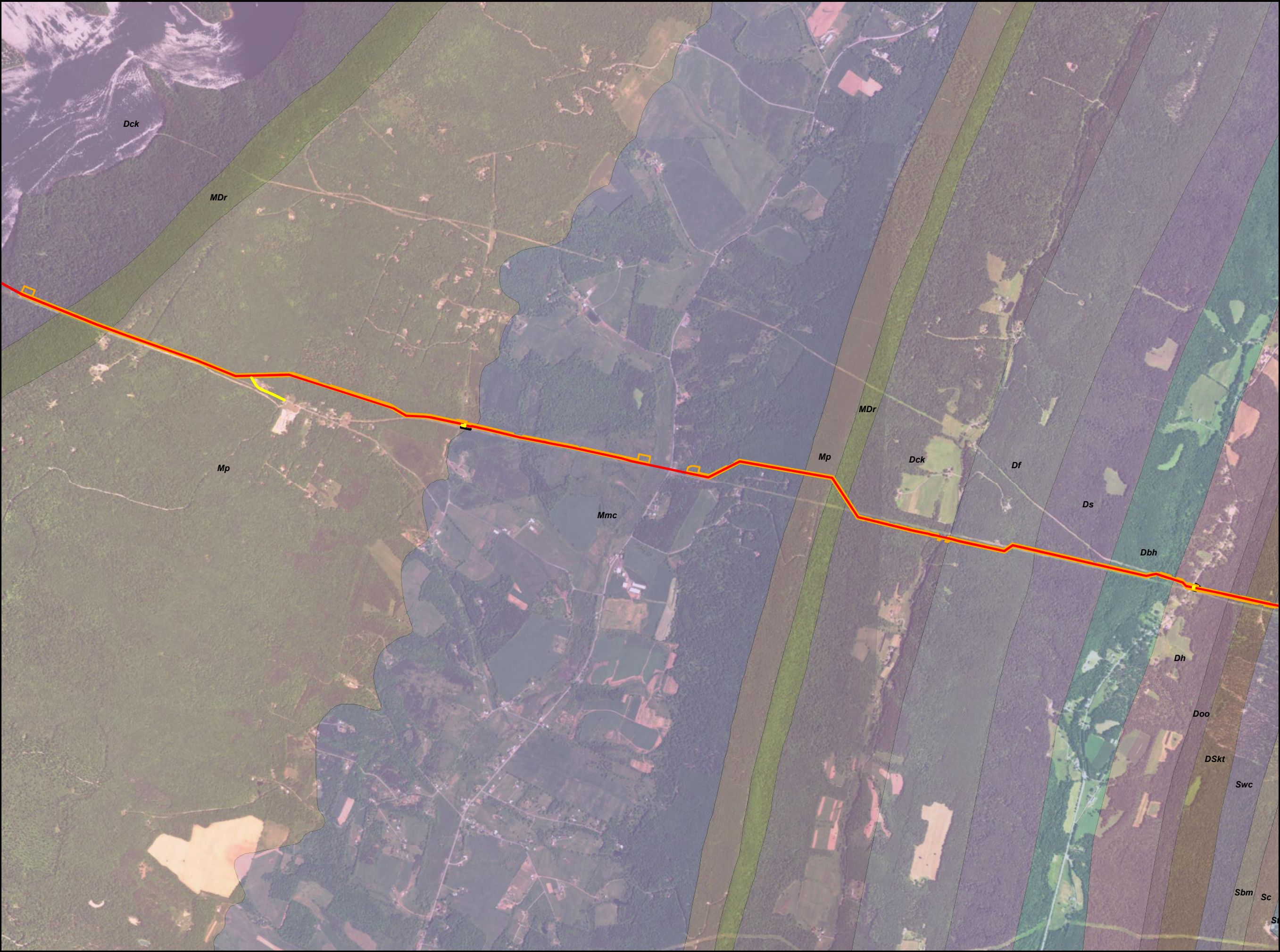
- Legend**
- Access Road
 - Alignment Centerline
 - Limit of Disturbance
 - Block Valve/Station
 - Keyser and Tonoloway Formations Undivided (DSkt)
 - Brallier and Harrel Formations Undivided (Dbh)
 - Catskill Formation (Dck)
 - Foreknobs Formations (Df)
 - Hamilton Group (Dh)
 - Onondaga and Old Port Formations undivided (Doo)
 - Scherr Formation (Ds)
 - Rockwell Formation (MDr)
 - Pocono Formation (Mp)
 - Bloomsburg and Mifflintown Formations undivided (Sbm)
 - Clinton Group (Sc)
 - Wills Creek Formation (Swc)



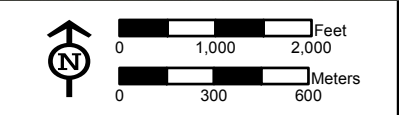
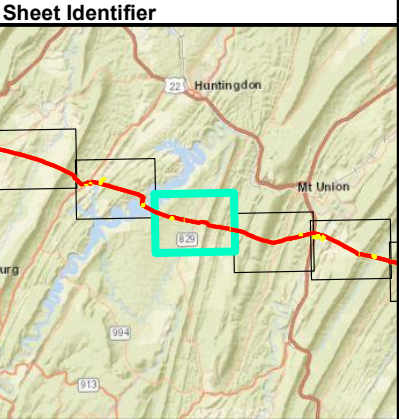
**GEOLOGIC UNIT MAP
ATTACHMENT 5-5
PENNSYLVANIA PIPELINE PROJECT
NOVEMBER 12, 2016 ALIGNMENT
SUNOCO LOGISTICS, L.P.
HUNTINGDON COUNTY,
PENNSYLVANIA**



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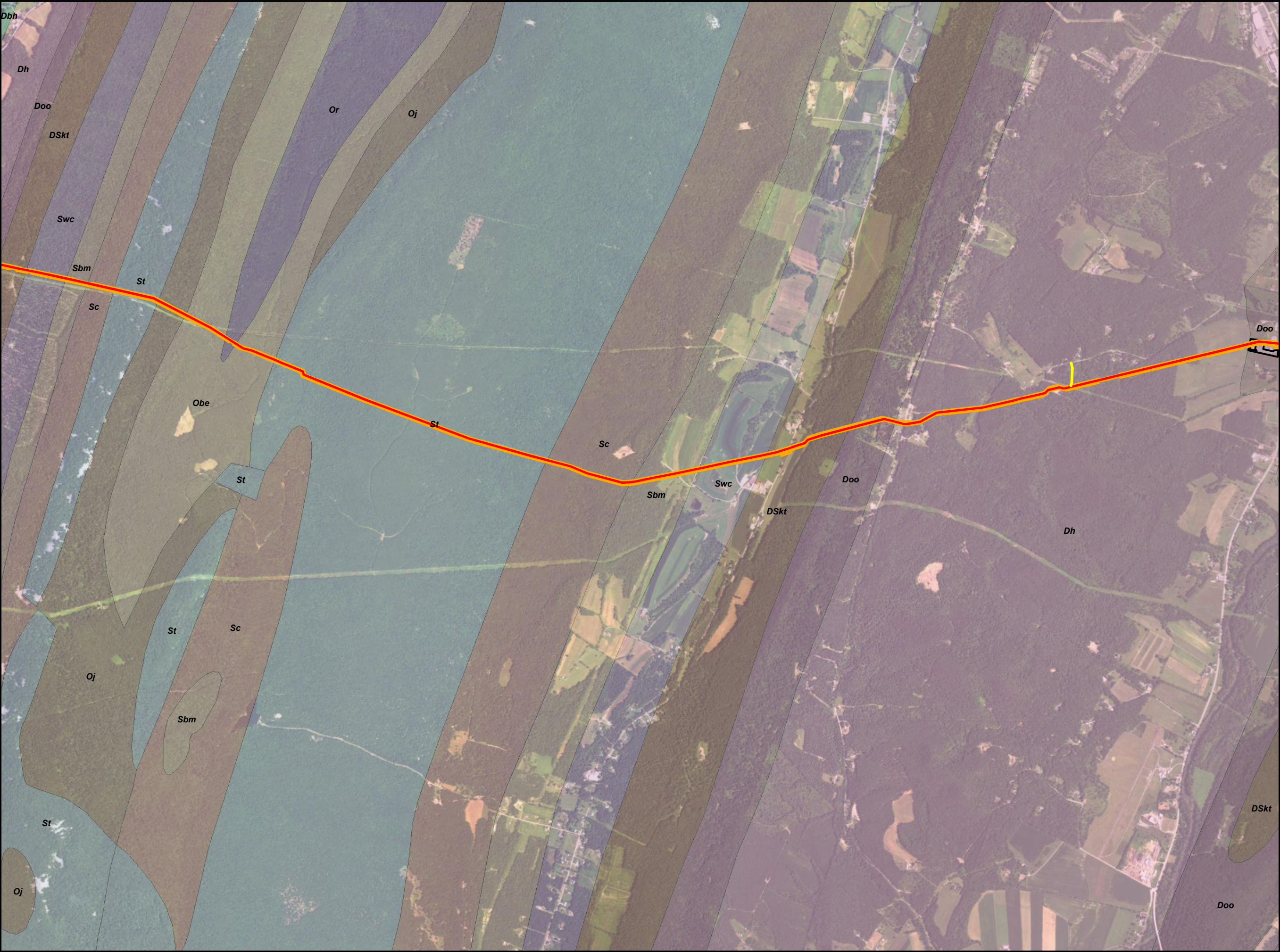
- Legend**
- Access Road
 - Alignment Centerline
 - Limit of Disturbance
 - Block Valve/Station
 - Keyser and Tonoloway Formations Undivided (DSkt)
 - Brallier and Harrel Formations Undivided (Dbh)
 - Catskill Formation (Dck)
 - Foreknobs Formations (Df)
 - Hamilton Group (Dh)
 - Onondaga and Old Port Formations undivided (Doo)
 - Scherr Formation (Ds)
 - Rockwell Formation (MDr)
 - Mauch Chunk Formation (Mmc)
 - Pocono Formation (Mp)
 - Bloomsburg and Mifflintown Formations undivided (Sbm)
 - Clinton Group (Sc)
 - Tuscarora Formation (St)
 - Wills Creek Formation (Swc)



**GEOLOGIC UNIT MAP
ATTACHMENT 5-6
PENNSYLVANIA PIPELINE PROJECT
NOVEMBER 12, 2016 ALIGNMENT
SUNOCO LOGISTICS, L.P.
HUNTINGDON COUNTY,
PENNSYLVANIA**

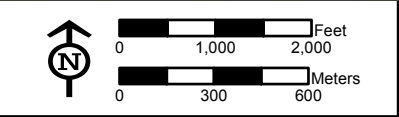
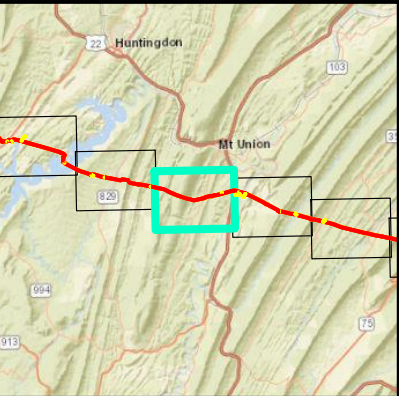


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- Legend**
- Access Road
 - Alignment Centerline
 - Limit of Disturbance
 - Block Valve/Station
 - Keyser and Tonoloway Formations Undivided (DSkt)
 - Brallier and Harrel Formations Undivided (Dbh)
 - Hamilton Group (Dh)
 - Onondaga and Old Port Formations undivided (Doo)
 - Bald Eagle Formation (Obe)
 - Juniata Formation (Oj)
 - Reedsville Formation (Or)
 - Bloomsburg and Mifflintown Formations undivided (Sbm)
 - Clinton Group (Sc)
 - Tuscarora Formation (St)
 - Wills Creek Formation (Swc)

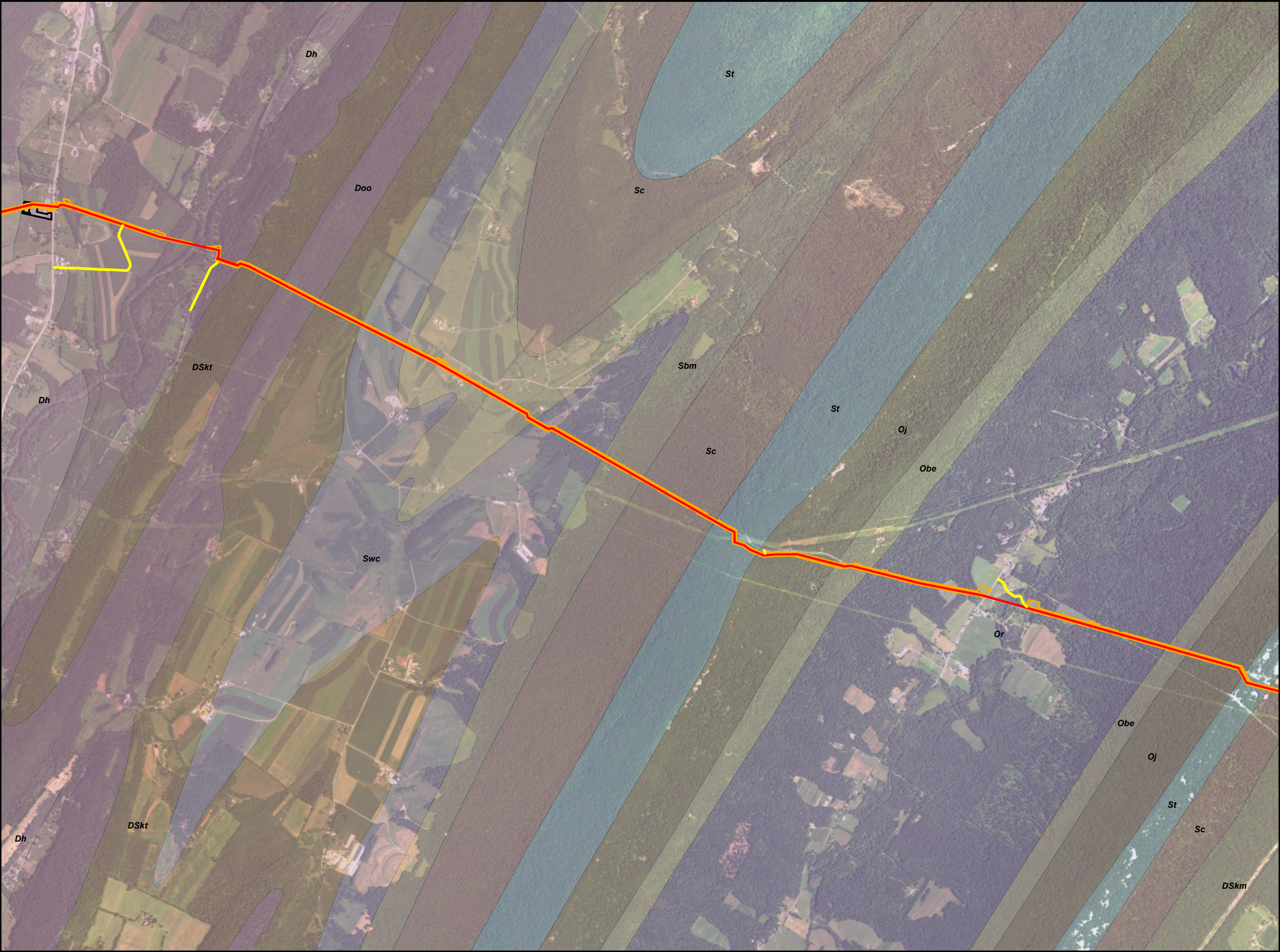
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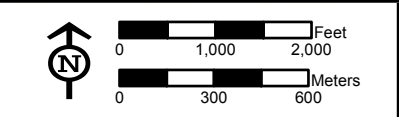
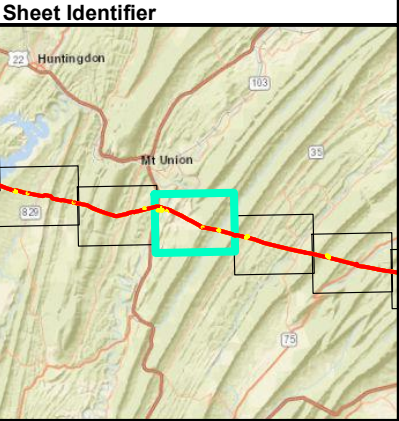
**GEOLOGIC UNIT MAP
ATTACHMENT 5-7
PENNSYLVANIA PIPELINE PROJECT
NOVEMBER 12, 2016 ALIGNMENT
SUNOCO LOGISTICS, L.P.
HUNTINGDON COUNTY,
PENNSYLVANIA**



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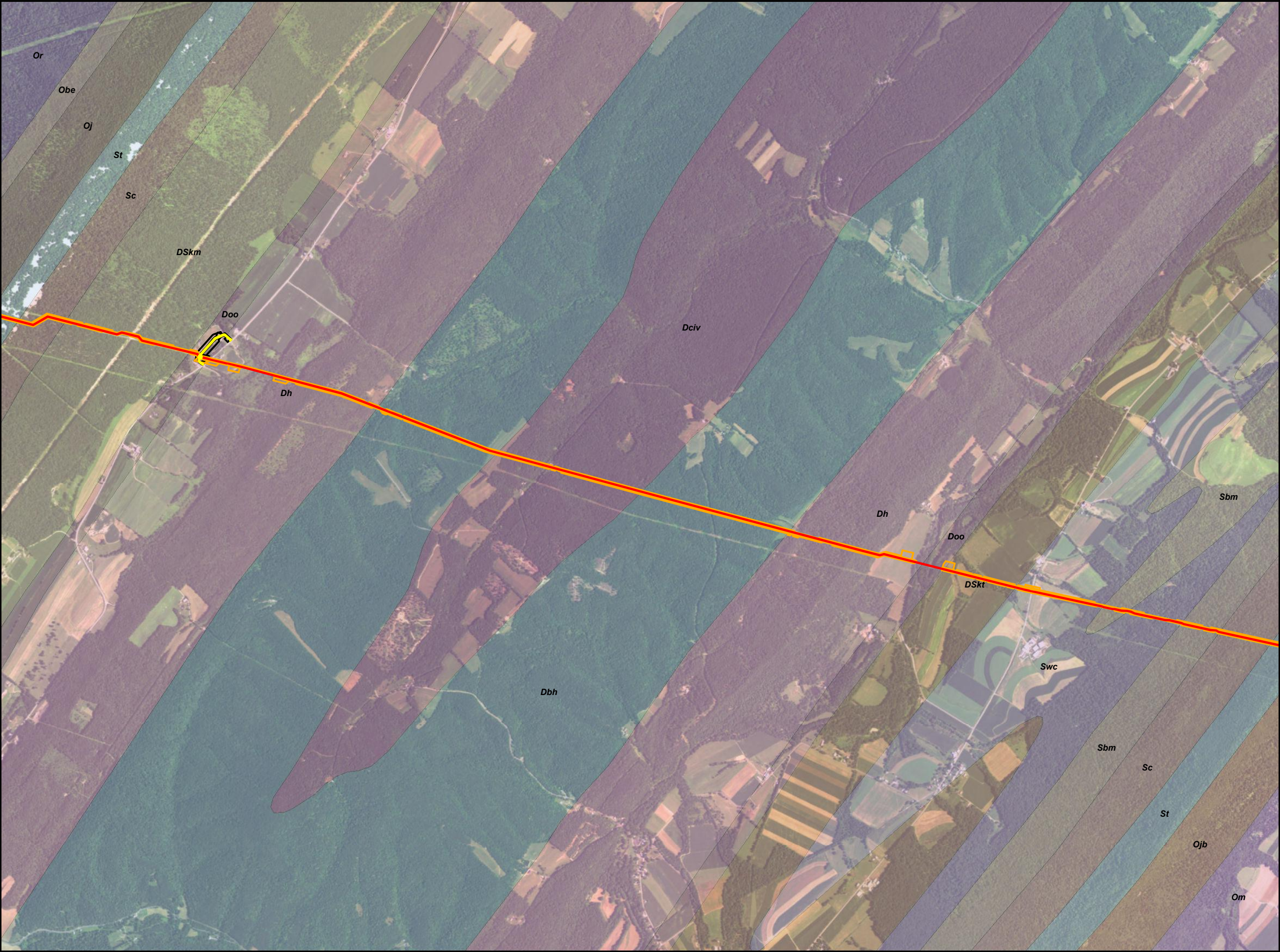
- Legend**
- Access Road
 - Alignment Centerline
 - Limit of Disturbance
 - Block Valve/Station
 - Keyser Formation through Mifflintown Formation undivided (DSkm)
 - Keyser and Tonoloway Formations Undivided (DSkt)
 - Hamilton Group (Dh)
 - Onondaga and Old Port Formations undivided (Doo)
 - Bald Eagle Formation (Obe)
 - Juniata Formation (Oj)
 - Reedsville Formation (Or)
 - Bloomsburg and Mifflintown Formations undivided (Sbm)
 - Clinton Group (Sc)
 - Tuscarora Formation (St)
 - Wills Creek Formation (Swc)



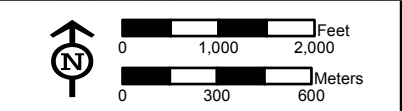
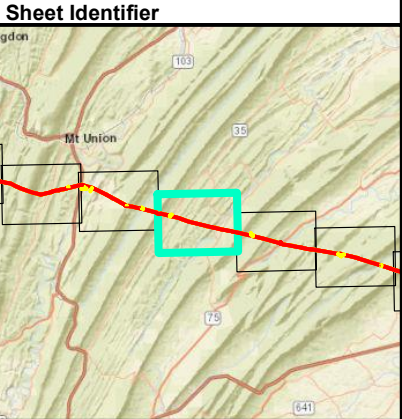
**GEOLOGIC UNIT MAP
ATTACHMENT 5-8
PENNSYLVANIA PIPELINE PROJECT
NOVEMBER 12, 2016 ALIGNMENT
SUNOCO LOGISTICS, L.P.
HUNTINGDON COUNTY,
PENNSYLVANIA**



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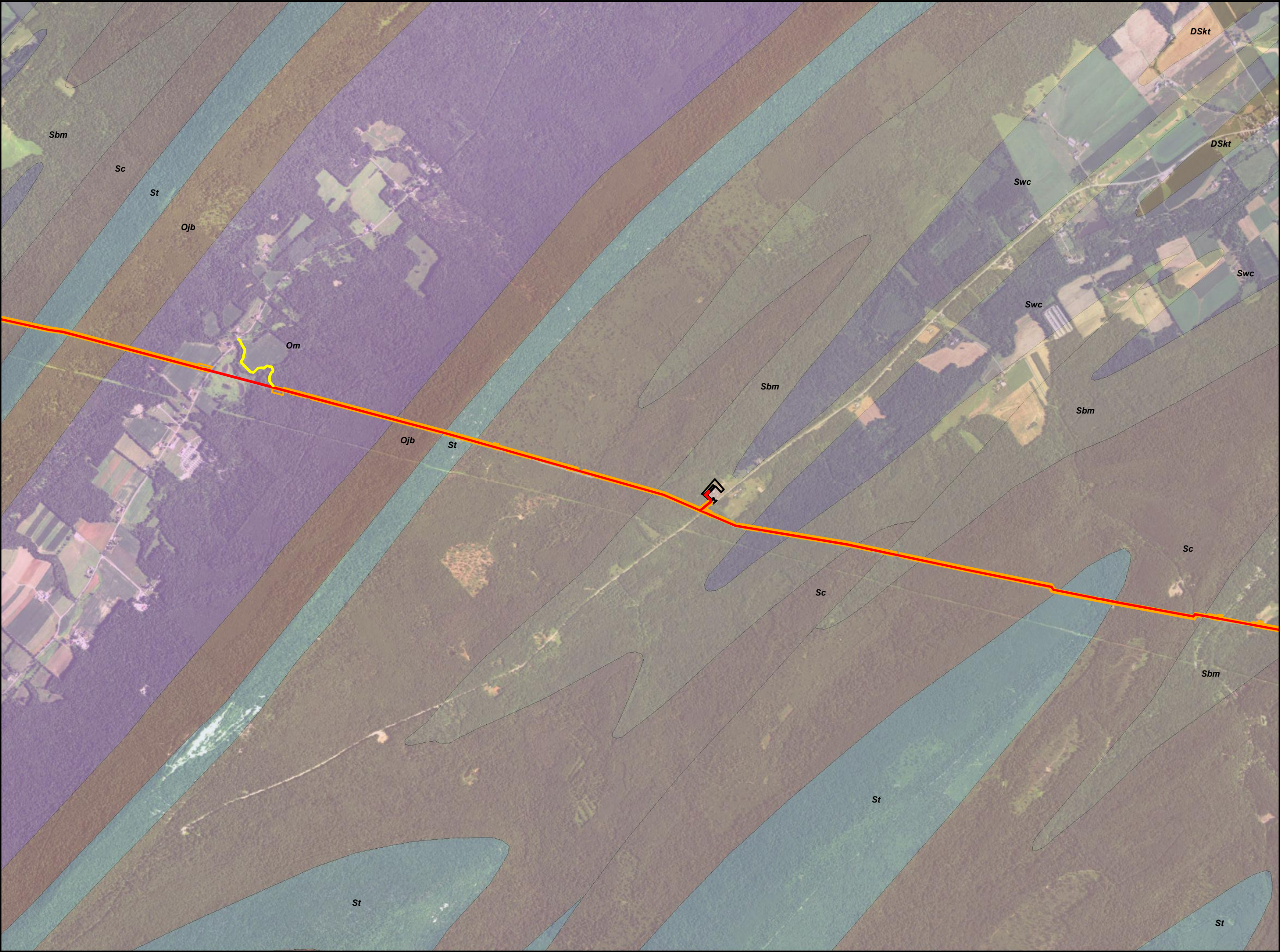
- Legend**
- Access Road
 - Alignment Centerline
 - Limit of Disturbance
 - Block Valve/Station
 - Keyser Formation through Mifflintown Formation undivided (DSkm)
 - Keyser and Tonoloway Formations Undivided (DSkt)
 - Brallier and Harrel Formations Undivided (Dbh)
 - Irish Valley Member of Catskill Formation (Dciv)
 - Hamilton Group (Dh)
 - Onondaga and Old Port Formations undivided (Doo)
 - Bald Eagle Formation (Obe)
 - Juniata Formation (Oj)
 - Juniata and Bald Eagle Formations undivided (Ojb)
 - Martinsburg Formation (Om)
 - Reedsville Formation (Or)
 - Bloomsburg and Mifflintown Formations undivided (Sbm)
 - Clinton Group (Sc)
 - Tuscarora Formation (St)
 - Wills Creek Formation (Swc)



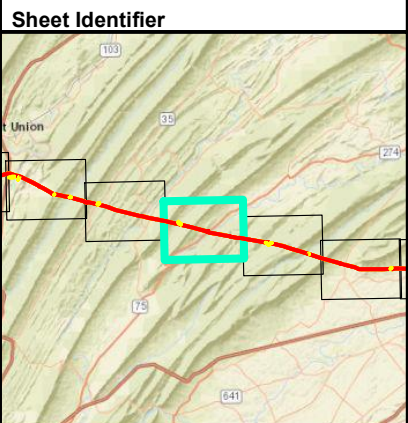
**GEOLOGIC UNIT MAP
ATTACHMENT 5-9
PENNSYLVANIA PIPELINE PROJECT
NOVEMBER 12, 2016 ALIGNMENT
SUNOCO LOGISTICS, L.P.
HUNTINGDON, JUNIATA COUNTY,
PENNSYLVANIA**



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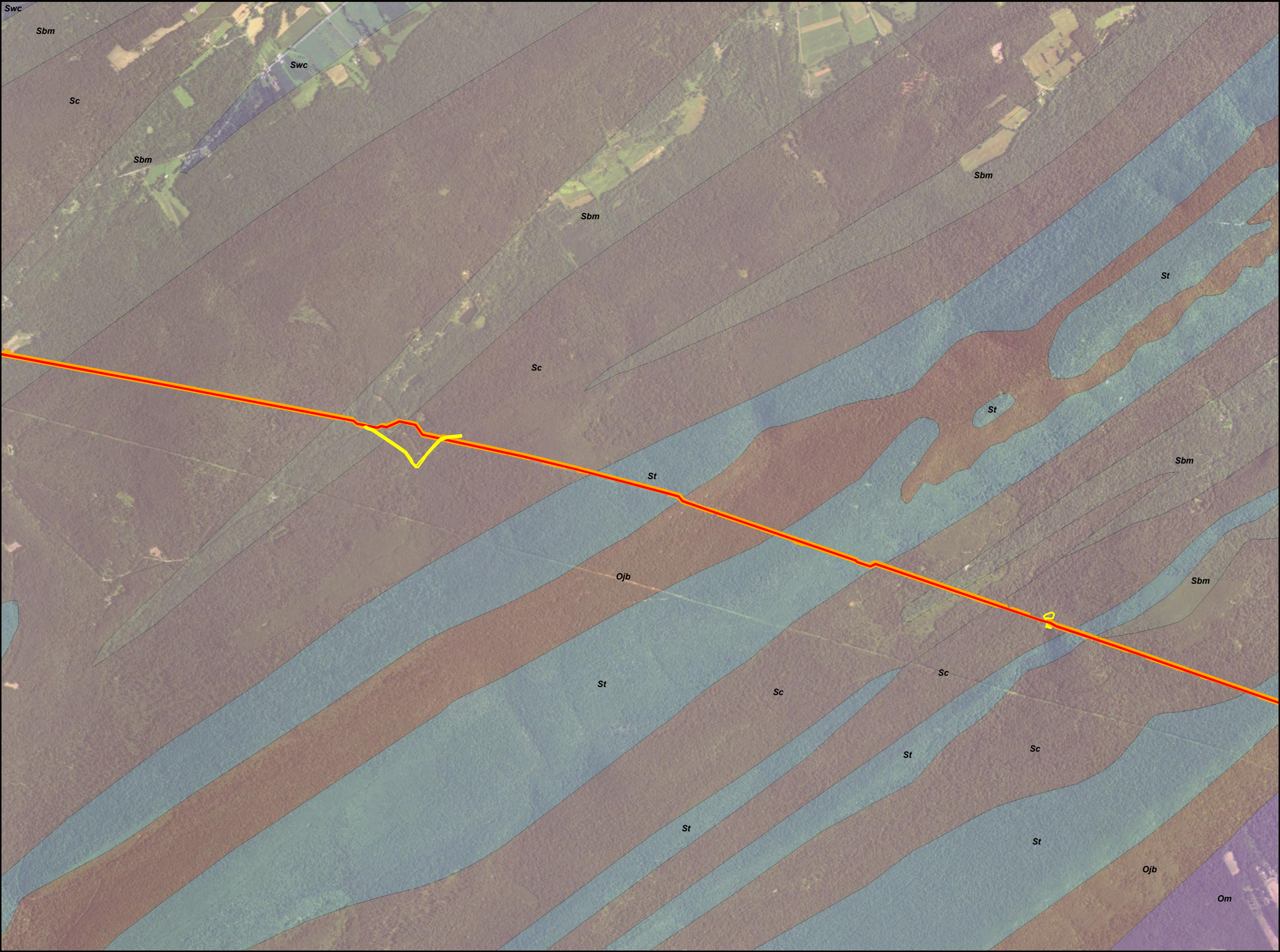
- Legend**
- Access Road
 - Alignment Centerline
 - Limit of Disturbance
 - Block Valve/Station
 - Keyser and Tonoloway Formations Undivided (DSkt)
 - Juniata and Bald Eagle Formations undivided (Ojb)
 - Martinsburg Formation (Om)
 - Bloomsburg and Mifflintown Formations undivided (Sbm)
 - Clinton Group (Sc)
 - Tuscarora Formation (St)
 - Wills Creek Formation (Swc)



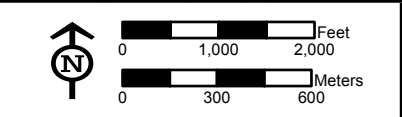
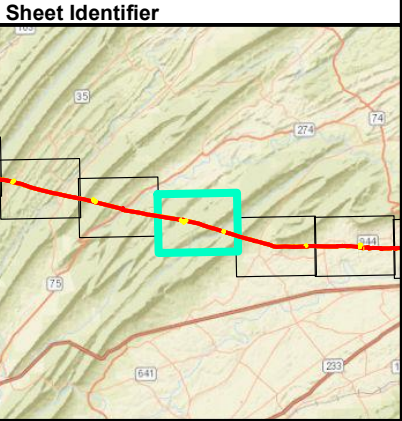
**GEOLOGIC UNIT MAP
ATTACHMENT 5-10
PENNSYLVANIA PIPELINE PROJECT
NOVEMBER 12, 2016 ALIGNMENT
SUNOCO LOGISTICS, L.P.
JUNIATA, PERRY COUNTY,
PENNSYLVANIA**



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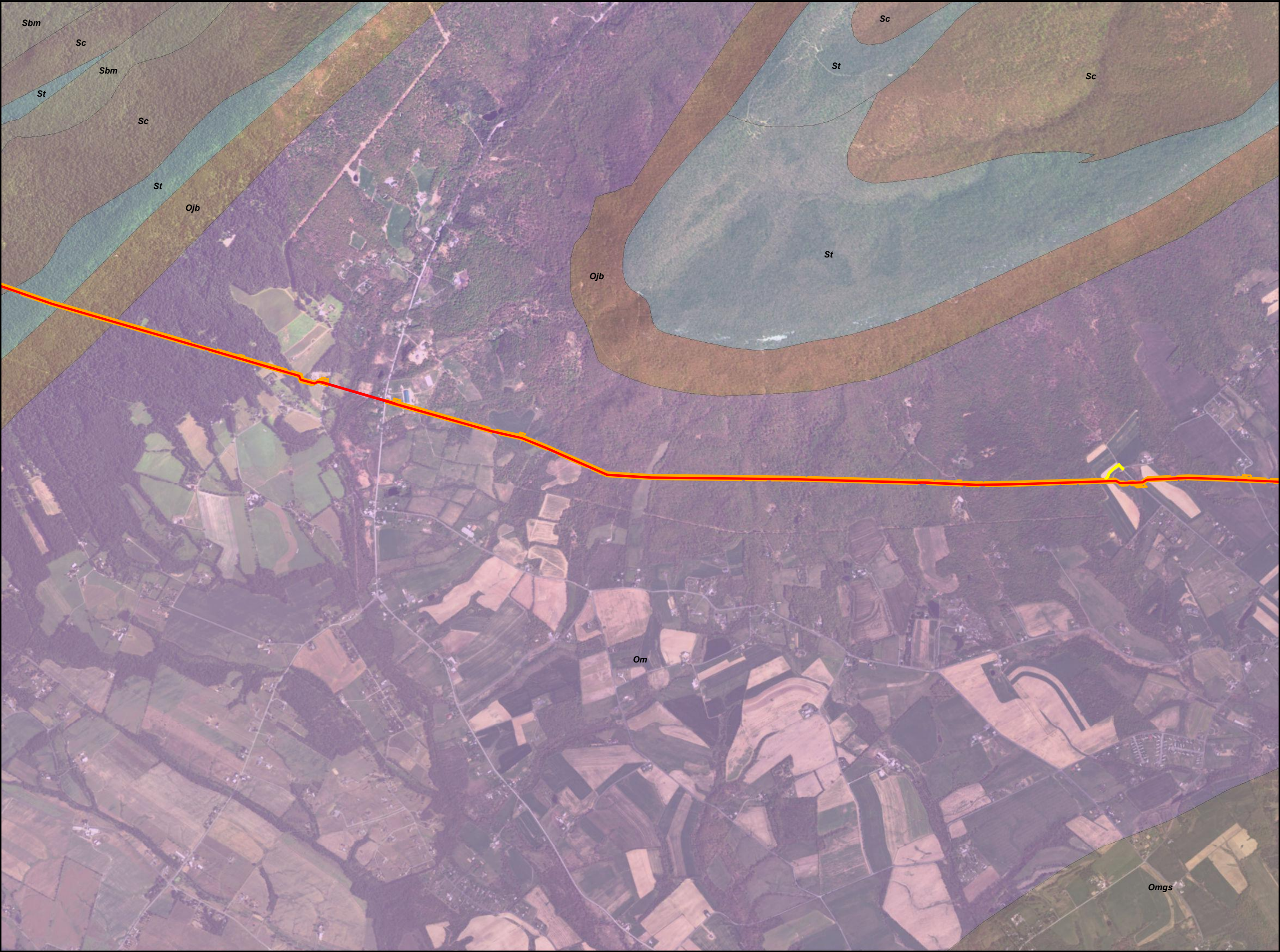
- Legend**
- Access Road
 - Alignment Centerline
 - Limit of Disturbance
 - Block Valve/Station
 - Juniata and Bald Eagle Formations undivided (Ojb)
 - Martinsburg Formation (Om)
 - Bloomsburg and Mifflintown Formations undivided (Sbm)
 - Clinton Group (Sc)
 - Tuscarora Formation (St)
 - Wills Creek Formation (Swc)



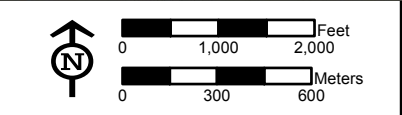
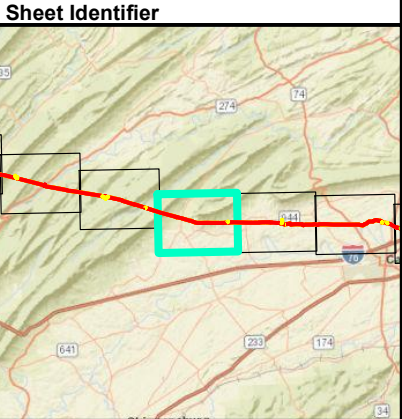
**GEOLOGIC UNIT MAP
ATTACHMENT 5-11
PENNSYLVANIA PIPELINE PROJECT
NOVEMBER 12, 2016 ALIGNMENT
SUNOCO LOGISTICS, L.P.
PERRY COUNTY,
PENNSYLVANIA**



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- Legend**
- Access Road
 - Alignment Centerline
 - Limit of Disturbance
 - Block Valve/Station
 - Juniata and Bald Eagle Formations undivided (Ojb)
 - Martinsburg Formation (Om)
 - Graywacke and shale of Martinsburg Formation (Omgs)
 - Bloomsburg and Mifflintown Formations undivided (Sbm)
 - Clinton Group (Sc)
 - Tuscarora Formation (St)



**GEOLOGIC UNIT MAP
ATTACHMENT 5-12
PENNSYLVANIA PIPELINE PROJECT
NOVEMBER 12, 2016 ALIGNMENT
SUNOCO LOGISTICS, L.P.
CUMBERLAND COUNTY,
PENNSYLVANIA**

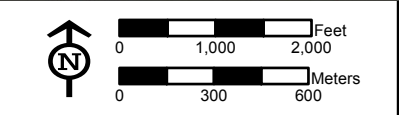
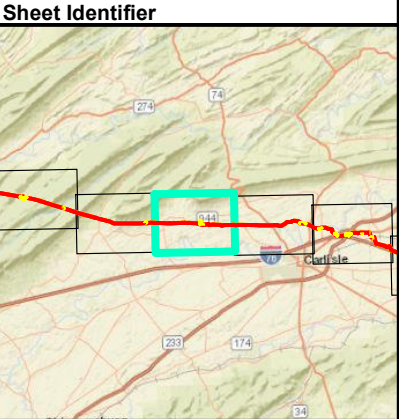


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Legend

- Access Road
- Alignment Centerline
- Limit of Disturbance
- Block Valve/Station
- Juniata and Bald Eagle Formations undivided (Ojb)
- Martinsburg Formation (Om)
- Graywacke and shale of Martinsburg Formation (Omgs)
- Clinton Group (Sc)
- Tuscarora Formation (St)



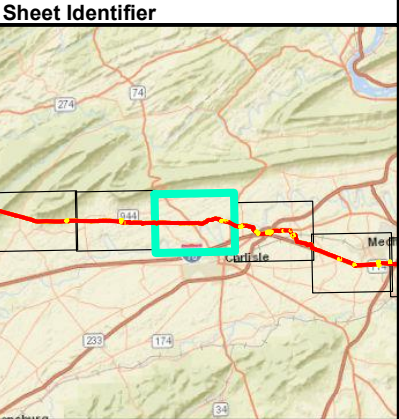
**GEOLOGIC UNIT MAP
ATTACHMENT 5-13
PENNSYLVANIA PIPELINE PROJECT
NOVEMBER 12, 2016 ALIGNMENT
SUNOCO LOGISTICS, L.P.
CUMBERLAND COUNTY,
PENNSYLVANIA**



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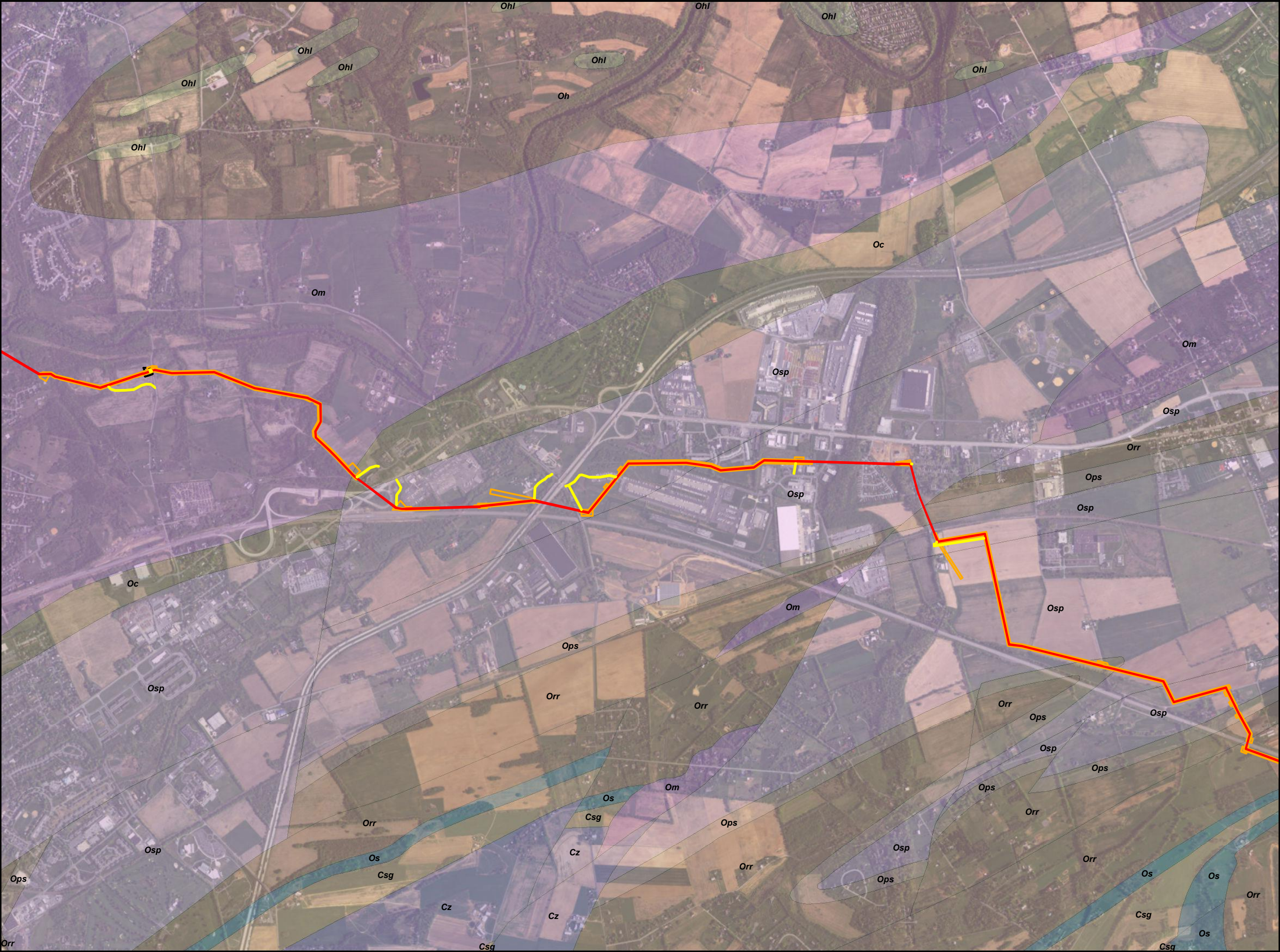
- Legend**
- Access Road
 - Alignment Centerline
 - Limit of Disturbance
 - Block Valve/Station
 - Chambersburg Formation (Oc)
 - Martinsburg Formation (Om)
 - Graywacke and shale of Martinsburg Formation (Omgs)
 - Pinesburg Station Formation (Ops)
 - Rockdale Run Formation (Orr)
 - St. Paul Group (Osp)



**GEOLOGIC UNIT MAP
ATTACHMENT 5-14
PENNSYLVANIA PIPELINE PROJECT
NOVEMBER 12, 2016 ALIGNMENT
SUNOCO LOGISTICS, L.P.
CUMBERLAND COUNTY,
PENNSYLVANIA**



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Legend

- Access Road
- Alignment Centerline
- Limit of Disturbance
- Block Valve/Station
- Shadygrove Formation (Csg)
- Zullinger Formation (Cz)
- Chambersburg Formation (Oc)
- Hamburg sequence rocks (Oh)
- Limestone of Hamburg Sequence (Ohl)
- Martinsburg Formation (Om)
- Pinesburg Station Formation (Ops)
- Rockdale Run Formation (Orr)
- Stonehenge Formation (Os)
- St. Paul Group (Osp)

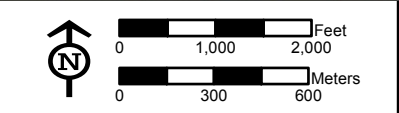
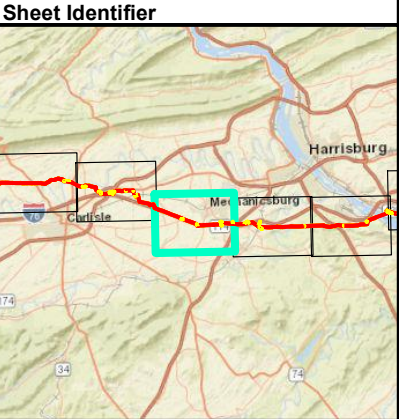
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**GEOLOGIC UNIT MAP
ATTACHMENT 5-15
PENNSYLVANIA PIPELINE PROJECT
NOVEMBER 12, 2016 ALIGNMENT
SUNOCO LOGISTICS, L.P.
CUMBERLAND COUNTY,
PENNSYLVANIA**

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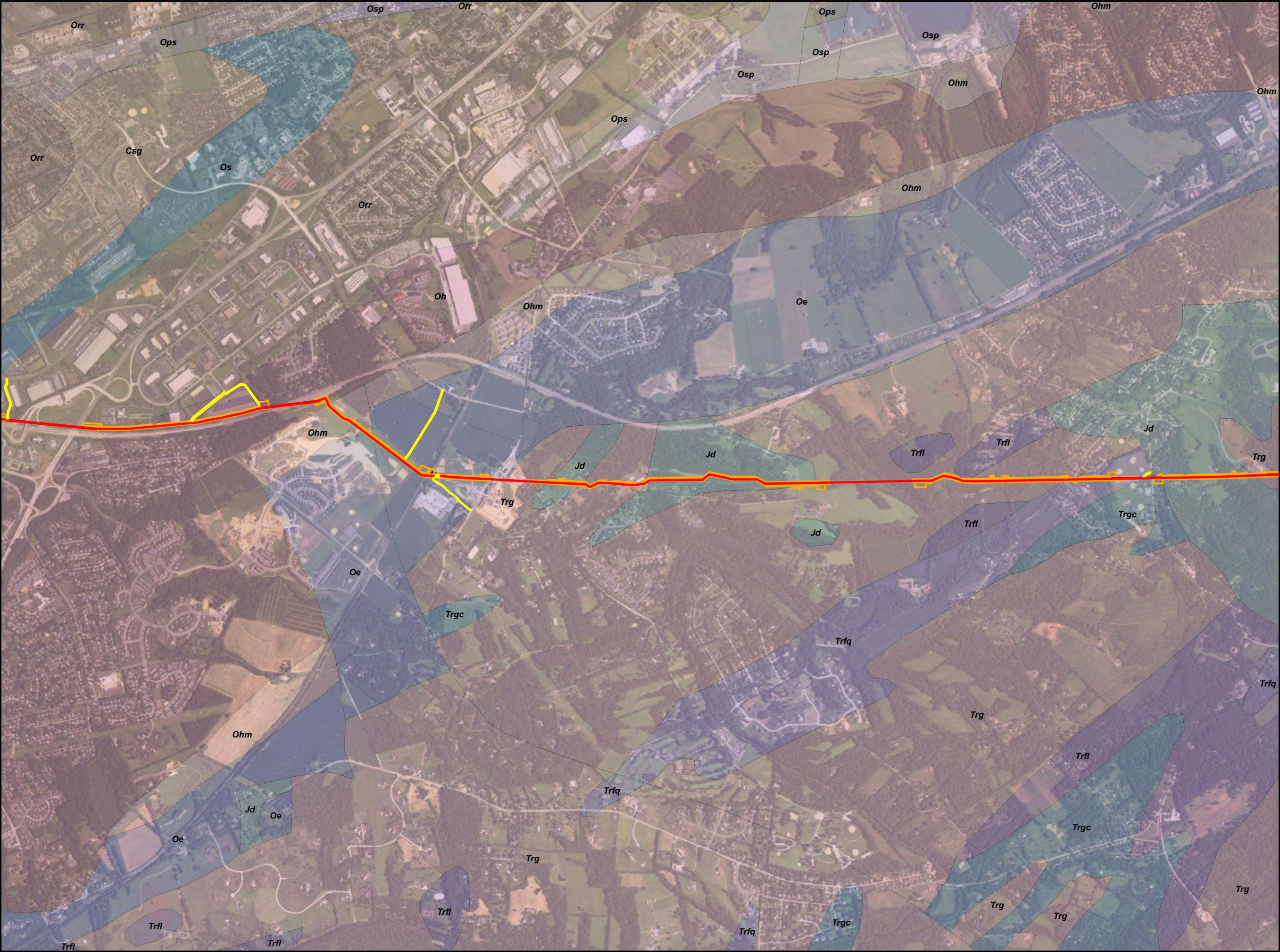
- Legend**
- Access Road
 - Alignment Centerline
 - Limit of Disturbance
 - Block Valve/Station
 - Elsbrook Formation (Ce)
 - Shadygrove Formation (Csg)
 - Zullinger Formation (Cz)
 - Hamburg sequence rocks (Oh)
 - Pinesburg Station Formation (Ops)
 - Rockdale Run Formation (Orr)
 - Stonehenge Formation (Os)
 - St. Paul Group (Osp)



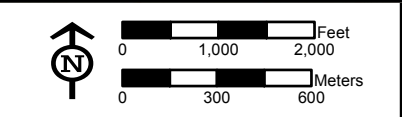
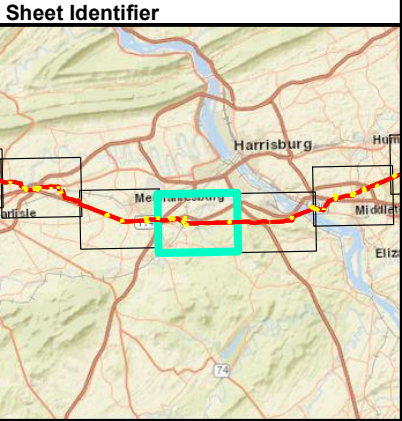
**GEOLOGIC UNIT MAP
ATTACHMENT 5-16
PENNSYLVANIA PIPELINE PROJECT
NOVEMBER 12, 2016 ALIGNMENT
SUNOCO LOGISTICS, L.P.
CUMBERLAND COUNTY,
PENNSYLVANIA**



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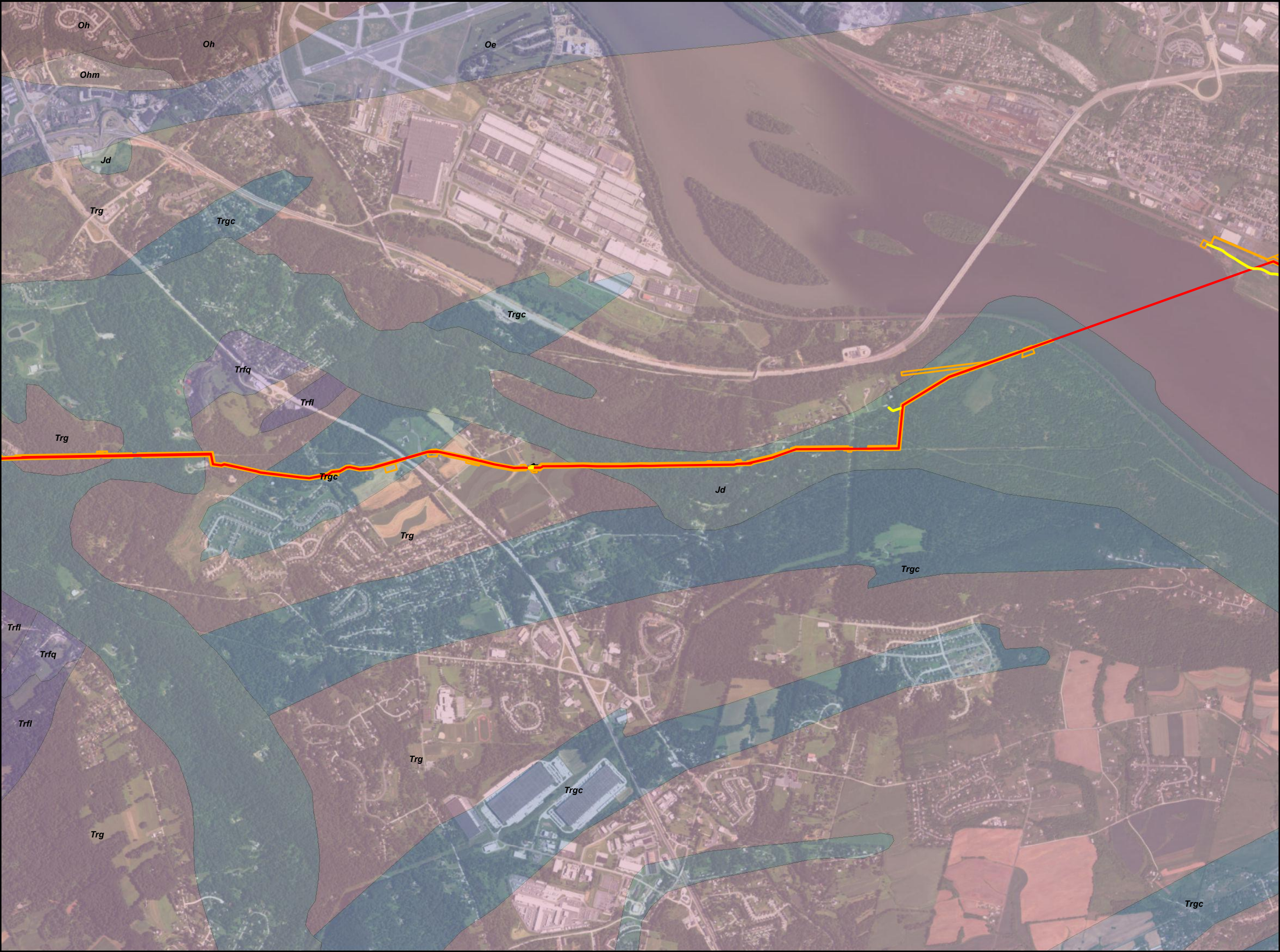
- Legend**
- Access Road
 - Alignment Centerline
 - Limit of Disturbance
 - Block Valve/Station
 - Shadygrove Formation (Csg)
 - Diabase (Jd)
 - Epler Formation (Oe)
 - Hamburg sequence rocks (Oh)
 - Hershey and Myerstown Formations undivided (Ohm)
 - Pinesburg Station Formation (Ops)
 - Rockdale Run Formation (Orr)
 - Stonehenge Formation (Os)
 - St. Paul Group (Osp)
 - Limestone fanglomerate (Trfl)
 - Quartz fanglomerate (Trfq)
 - Gettysburg Formation (Trg)
 - Gettysburg conglomerate (Trgc)



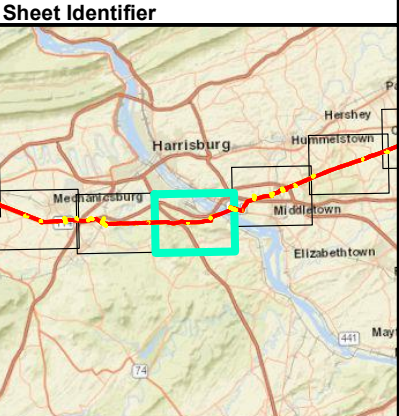
**GEOLOGIC UNIT MAP
ATTACHMENT 5-17
PENNSYLVANIA PIPELINE PROJECT
NOVEMBER 12, 2016 ALIGNMENT
SUNOCO LOGISTICS, L.P.
CUMBERLAND, YORK COUNTY,
PENNSYLVANIA**



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- Legend**
- Access Road
 - Alignment Centerline
 - Limit of Disturbance
 - Block Valve/Station
 - Diabase (Jd)
 - Epler Formation (Oe)
 - Hamburg sequence rocks (Oh)
 - Hershey and Myerstown Formations undivided (Ohm)
 - Limestone fanglomerate (Trfl)
 - Quartz fanglomerate (Trfq)
 - Gettysburg Formation (Trg)
 - Gettysburg conglomerate (Trgc)



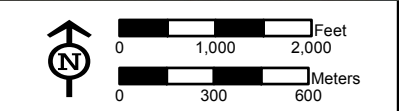
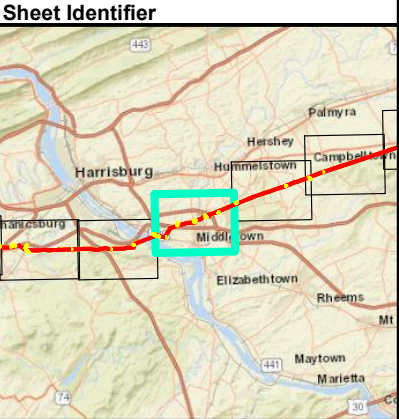
**GEOLOGIC UNIT MAP
ATTACHMENT 5-18
PENNSYLVANIA PIPELINE PROJECT
NOVEMBER 12, 2016 ALIGNMENT
SUNOCO LOGISTICS, L.P.
YORK, DAUPHIN COUNTY,
PENNSYLVANIA**



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- Legend**
- Access Road
 - Alignment Centerline
 - Limit of Disturbance
 - Block Valve/Station
 - Diabase (Jd)
 - Annville Formation (Oan)
 - Epler Formation (Oe)
 - Hamburg sequence rocks (Oh)
 - Hershey and Myerstown Formations undivided (Ohm)
 - Ontelaunee Formation (Oo)
 - St. Paul Group (Osp)
 - Gettysburg Formation (Trg)
 - Gettysburg conglomerate (Trgc)



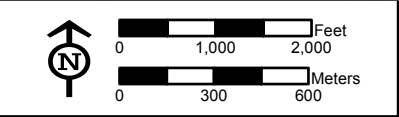
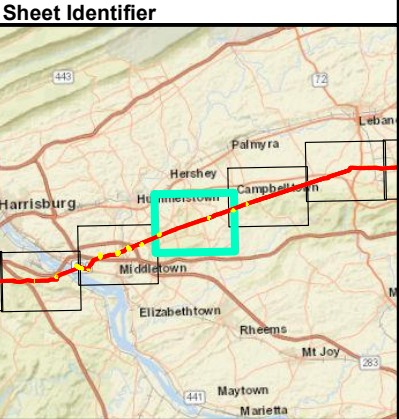
**GEOLOGIC UNIT MAP
ATTACHMENT 5-19
PENNSYLVANIA PIPELINE PROJECT
NOVEMBER 12, 2016 ALIGNMENT
SUNOCO LOGISTICS, L.P.
DAUPHIN COUNTY,
PENNSYLVANIA**



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- Legend**
- Access Road
 - Alignment Centerline
 - Limit of Disturbance
 - Block Valve/Station
 - Buffalo Springs Formation (Cbs)
 - Diabase (Jd)
 - Epler Formation (Oe)
 - Ontelaunee Formation (Oo)
 - Stonehenge Formation (Os)
 - Limestone fanglomerate (Trfl)
 - Gettysburg Formation (Trg)
 - Gettysburg conglomerate (Trgc)
 - Hammer Creek Formation (Trh)
 - Hammer Creek conglomerate (Trhc)



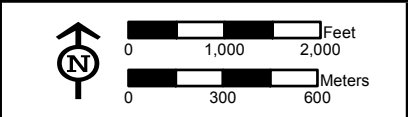
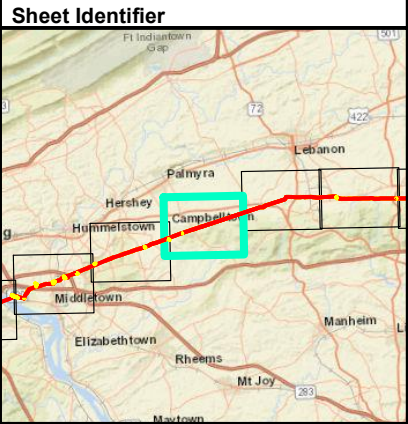
**GEOLOGIC UNIT MAP
ATTACHMENT 5-20
PENNSYLVANIA PIPELINE PROJECT
NOVEMBER 12, 2016 ALIGNMENT
SUNOCO LOGISTICS, L.P.
DAUPHIN COUNTY,
PENNSYLVANIA**



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- Legend**
- Access Road
 - Alignment Centerline
 - Limit of Disturbance
 - Block Valve/Station
 - Buffalo Springs Formation (Cbs)
 - Millbach and Schaefferstown Formations undivided (Cms)
 - Richland Formation (Cr)
 - Snitz Creek Formation (Csc)
 - Diabase (Jd)
 - Hamburg sequence rocks (Oh)
 - Stonehenge Formation (Os)
 - Gettysburg Formation (Trg)
 - Hammer Creek Formation (Trh)
 - Hammer Creek conglomerate (Trhc)



**GEOLOGIC UNIT MAP
ATTACHMENT 5-21
PENNSYLVANIA PIPELINE PROJECT
NOVEMBER 12, 2016 ALIGNMENT
SUNOCO LOGISTICS, L.P.
LEBANON COUNTY,
PENNSYLVANIA**

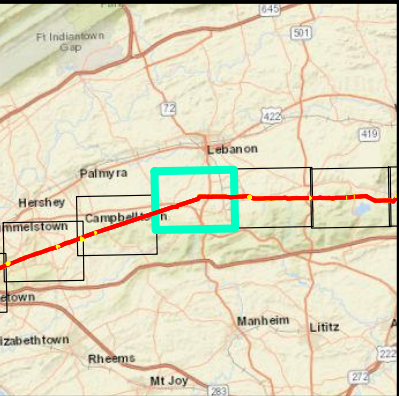


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- Legend**
- Access Road
 - Alignment Centerline
 - Limit of Disturbance
 - Block Valve/Station
 - Buffalo Springs Formation (Cbs)
 - Millbach and Schaeferstown Formations undivided (Cms)
 - Richland Formation (Cr)
 - Snitz Creek Formation (Csc)
 - Diabase (Jd)
 - Epler Formation (Oe)
 - Hamburg sequence rocks (Oh)
 - Rickenback Formation (Ori)
 - Stonehenge Formation (Os)
 - Hammer Creek Formation (Trh)
 - Hammer Creek conglomerate (Trhc)

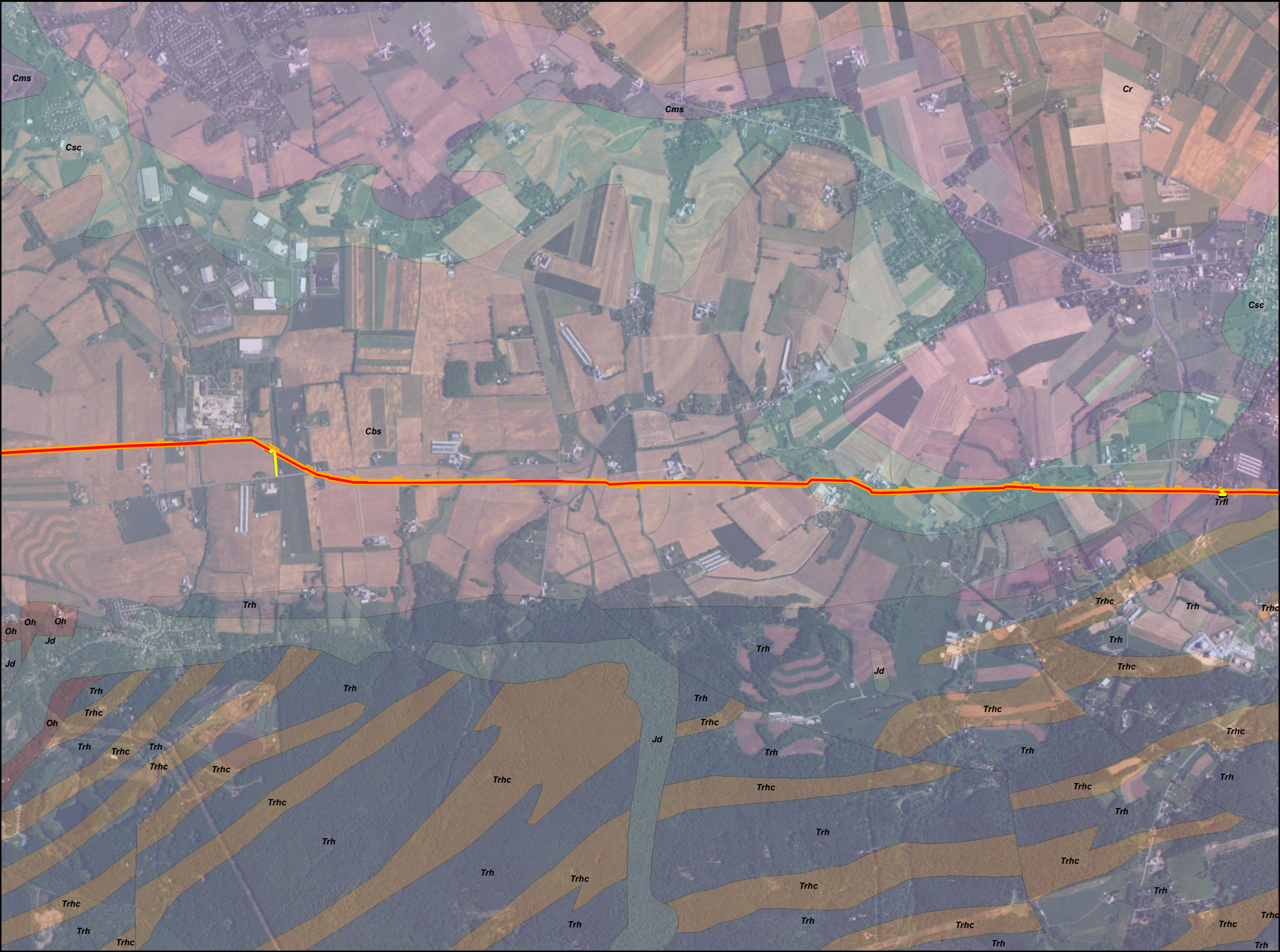
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**GEOLOGIC UNIT MAP
ATTACHMENT 5-22
PENNSYLVANIA PIPELINE PROJECT
NOVEMBER 12, 2016 ALIGNMENT
SUNOCO LOGISTICS, L.P.
LEBANON COUNTY,
PENNSYLVANIA**



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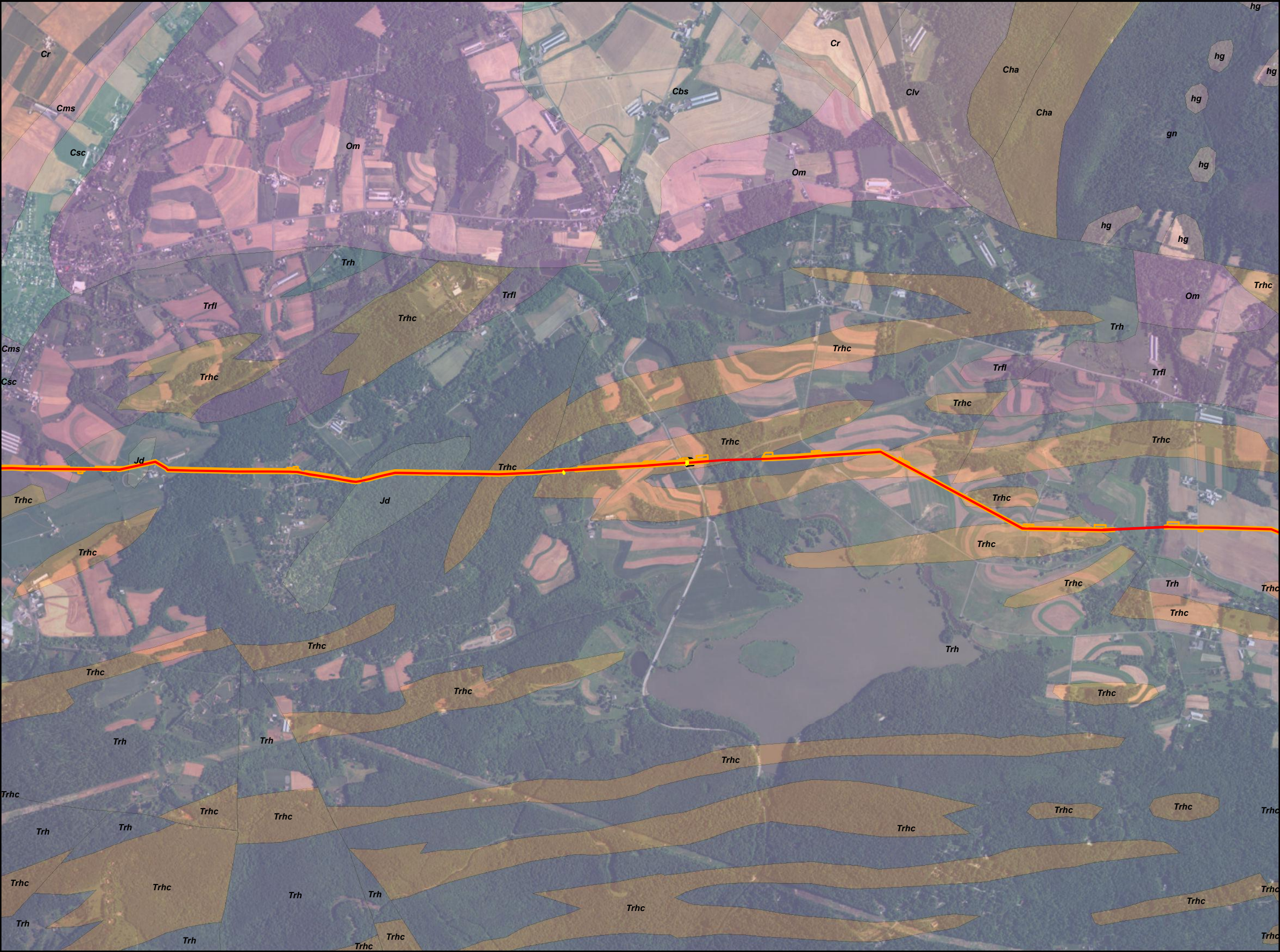
Legend

- Access Road
- Alignment Centerline
- Limit of Disturbance
- Block Valve/Station
- Buffalo Springs Formation (Cbs)
- Millbach and Schaefferstown Formations undivided (Cms)
- Richland Formation (Cr)
- Snitz Creek Formation (Csc)
- Diabase (Jd)
- Hamburg sequence rocks (Oh)
- Limestone fanglomerate (Trfl)
- Hammer Creek Formation (Trh)
- Hammer Creek conglomerate (Trhc)

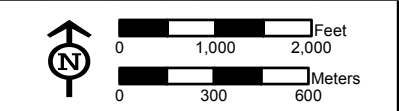
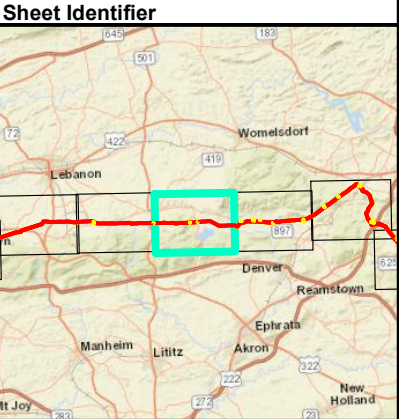
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**GEOLOGIC UNIT MAP
ATTACHMENT 5-23
PENNSYLVANIA PIPELINE PROJECT
NOVEMBER 12, 2016 ALIGNMENT
SUNOCO LOGISTICS, L.P.
LEBANON COUNTY,
PENNSYLVANIA**

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- Legend**
- Access Road
 - Alignment Centerline
 - Limit of Disturbance
 - Block Valve/Station
 - Buffalo Springs Formation (Cbs)
 - Hardyston Formation (Cha)
 - Leithsville Formation (Clv)
 - Millbach and Schaefferstown Formations undivided (Cms)
 - Richland Formation (Cr)
 - Snitz Creek Formation (Csc)
 - Diabase (Jd)
 - Martinsburg Formation (Om)
 - Limestone fanglomerate (Trfl)
 - Hammer Creek Formation (Trh)
 - Hammer Creek conglomerate (Trhc)
 - Felsic to mafic gneiss (gn)
 - Hornblende gneiss (hg)



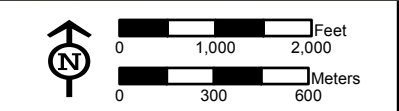
**GEOLOGIC UNIT MAP
ATTACHMENT 5-24
PENNSYLVANIA PIPELINE PROJECT
NOVEMBER 12, 2016 ALIGNMENT
SUNOCO LOGISTICS, L.P.
LEBANON, LANCASTER COUNTY,
PENNSYLVANIA**



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- Legend**
- Access Road
 - Alignment Centerline
 - Limit of Disturbance
 - Block Valve/Station
 - Hardyston Formation (Cha)
 - Martinsburg Formation (Om)
 - Limestone fanglomerate (Trfl)
 - Hammer Creek Formation (Trh)
 - Hammer Creek conglomerate (Trhc)
 - Graphitic felsic gneiss (gg)
 - Felsic to mafic gneiss (gn)
 - Gaphitic Felsic Gneiss (gqm)
 - Hornblende gneiss (hg)



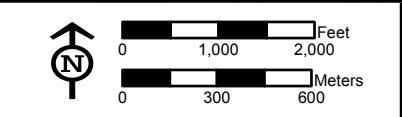
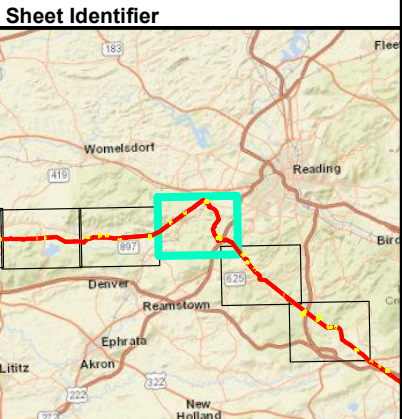
**GEOLOGIC UNIT MAP
ATTACHMENT 5-25
PENNSYLVANIA PIPELINE PROJECT
NOVEMBER 12, 2016 ALIGNMENT
SUNOCO LOGISTICS, L.P.
LANCASTER COUNTY,
PENNSYLVANIA**



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- Legend**
- Access Road
 - Alignment Centerline
 - Limit of Disturbance
 - Block Valve/Station
 - Buffalo Springs Formation (Cbs)
 - Hardyston Formation (Cha)
 - Millbach Formation (Cm)
 - Richland Formation (Cr)
 - Diabase (Jd)
 - Epler Formation (Oe)
 - Martinsburg Formation (Om)
 - Hammer Creek Formation (Trh)
 - Hammer Creek conglomerate (Trhc)
 - Felsic to mafic gneiss (gn)
 - Gaphitic Felsic Gneiss (gqm)
 - Hornblende gneiss (hg)



**GEOLOGIC UNIT MAP
ATTACHMENT 5-26
PENNSYLVANIA PIPELINE PROJECT
NOVEMBER 12, 2016 ALIGNMENT
SUNOCO LOGISTICS, L.P.
BERKS COUNTY,
PENNSYLVANIA**

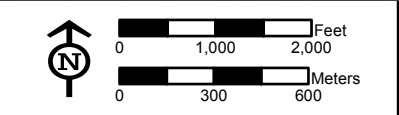
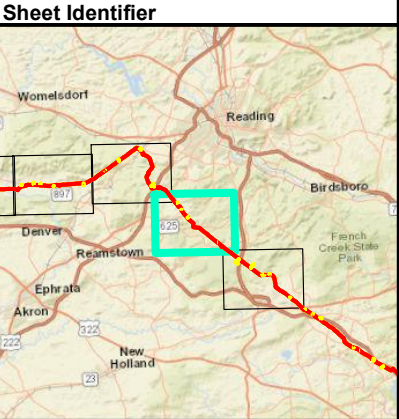


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Legend

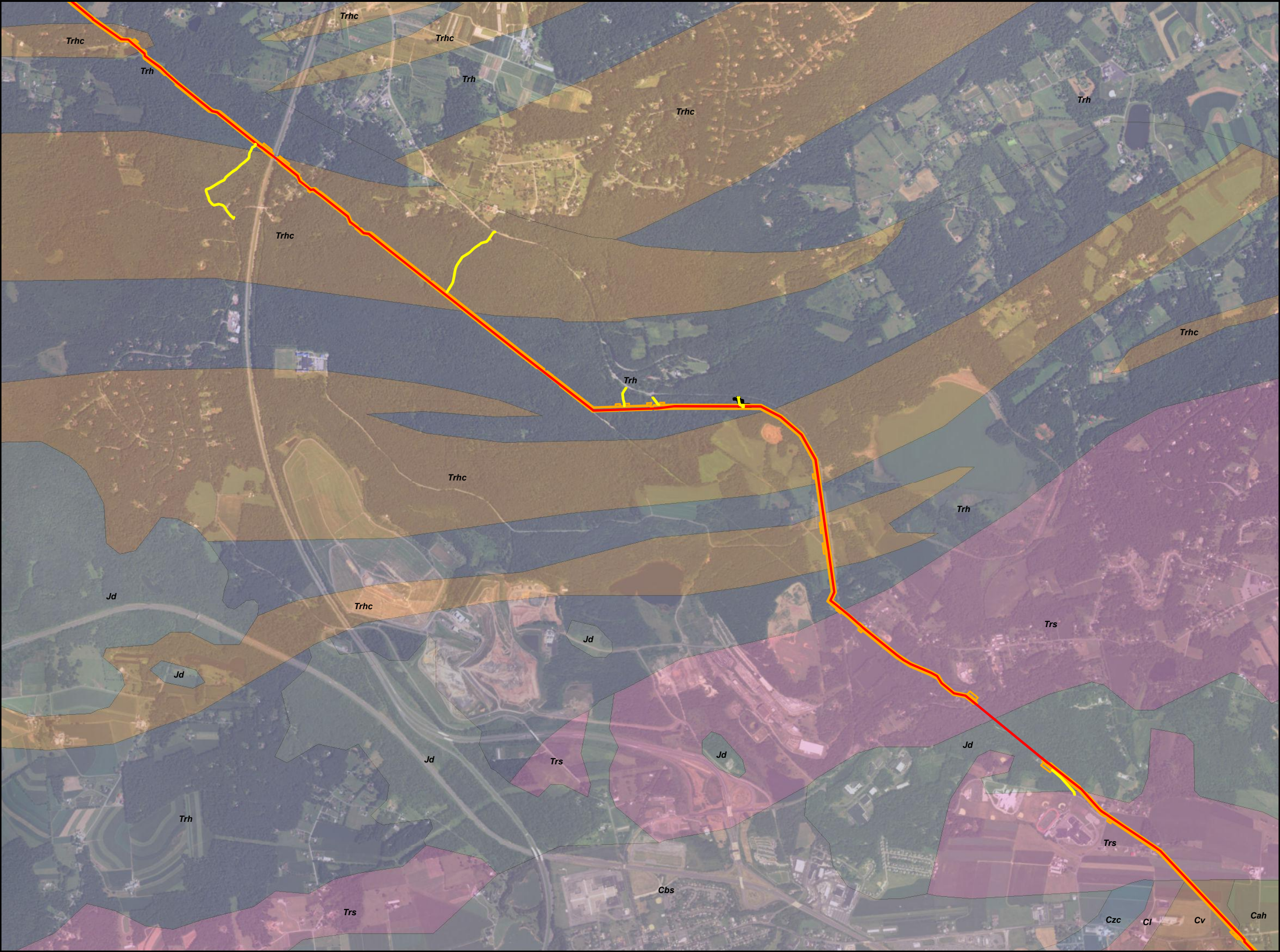
- Access Road
- Alignment Centerline
- Limit of Disturbance
- Block Valve/Station
- Diabase (Jd)
- Hammer Creek Formation (Trh)
- Hammer Creek conglomerate (Trhc)



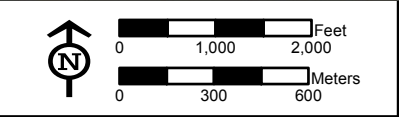
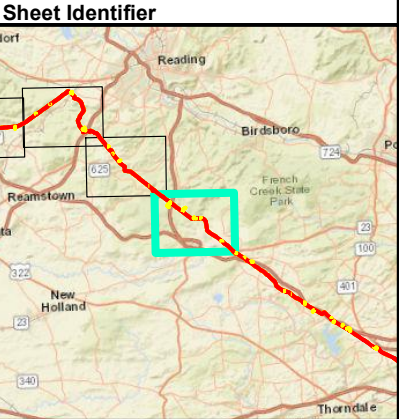
**GEOLOGIC UNIT MAP
ATTACHMENT 5-27
PENNSYLVANIA PIPELINE PROJECT
NOVEMBER 12, 2016 ALIGNMENT
SUNOCO LOGISTICS, L.P.
BERKS COUNTY,
PENNSYLVANIA**



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- Legend**
- Access Road
 - Alignment Centerline
 - Limit of Disturbance
 - Block Valve/Station
 - Antietam and Harpers Formations undivided (Cah)
 - Buffalo Springs Formation (Cbs)
 - Chickies Formation (Cch)
 - Ledger Formation (Cl)
 - Vintage Formation (Cv)
 - Zooks Corner Formation (Czc)
 - Diabase (Jd)
 - Hammer Creek Formation (Trh)
 - Hammer Creek conglomerate (Trhc)
 - Stockton Formation (Trs)



**GEOLOGIC UNIT MAP
ATTACHMENT 5-28
PENNSYLVANIA PIPELINE PROJECT
NOVEMBER 12, 2016 ALIGNMENT
SUNOCO LOGISTICS, L.P.
BERKS COUNTY,
PENNSYLVANIA**



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