



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL & GAS MANAGEMENT**

PERMIT APPLICATION TO DRILL AND OPERATE AN UNCONVENTIONAL WELL

APPLICANT INFORMATION				
Applicant (Operator) Name MERRION OIL & GAS CORP	Legal Name MERRION OIL & GAS CORP	DEP Client ID# 329655	Phone 505-324-5336	FAX 505-324-5300
Mailing Address (Street or PO Box) 610 REILLY AVE	Address 2			
City FARMINGTON	State NM	Zip +4 87401-2634		
Email Address pthompson@merrion.bz	24/7 Emergency Contact Name / Number RYAN DAVIS 505-324-5300			

WELL INFORMATION			
(Well) Farm Name ET-BRADDOCK			
Well # 1H	Serial #	Project # (from DEP) 1256097	
County ALLEGHENY	Municipality NORTH VERSAILLES TWP	911 Address of Well site (or nearest intersection)	
Is this an Unconventional well? Y	Is this a Coal well? N	Bond Agreement ID	Well Deepest Point (TVD) 6456

WELLBORE INFORMATION			
Wellbore Number 1	Wellbore Name WELLBORE SURFACE HOLE LOCATION	Type of Wellbore GAS	Wellbore Configuration Vertical Well
Wellbore Number 2	Wellbore Name WELLBORE SIDETRACK	Type of Wellbore GAS	Wellbore Configuration Horizontal Well

WELL PAD INFORMATION			
Well Pad Name ET-Braddock			
Will the proposed well location be covered under an existing or previous Erosion and Sediment Control General Permit? N	ESCGP Number	Will this well be built on a well pad? Y	Well Pad 155643-ET-Braddock

COORDINATION QUESTIONS	
Will the well be subject to the Oil and Gas Conservation Law?	N
Will the proposed limit of disturbance of the well site be within 100 feet measured horizontally from any watercourse or any high quality or exceptional value body of water or any wetland one acre or greater in size?	N
Will the well penetrate or be within 3,000 feet of an active gas storage reservoir boundary?	N
Is the proposed well location within the permitted perimeter of an active, abandoned or proposed landfill?	N
Will the vertical well bore of the unconventional well be drilled within 500 feet from any existing building or an existing water supply?"	Y
Will the vertical well bore of the unconventional well be drilled within 1,000 feet from any existing water well, surface water intake, reservoir or other water supply extraction point used by the water purveyor?	N
Is this permit application for a well that will be drilled on a well site for which construction was completed prior to April 16, 2012?	N
Will the well be located where it may impact a public resource as outlined in the 'Coordination of a Well Location with Public Resources' form 5500 PM-OG0076?	N
Will any portion of the well site be located within a Special Protection watershed?	N
Is this well part of a development which requires an Earth Disturbance Permit for Oil and Gas Activities disturbing more than 5 acres?	Y
Will the well or well site be located within a defined 100 year floodplain or where the floodplain is undefined, within 100 feet of the top of the bank of a perennial stream or within 50 feet of the top of the bank of an intermittent stream?	Y
Is the well to be located within a 1-mile radius of a well drilled to or through the same formation where hydrogen sulfide (H2S) has been found while drilling?	N
Did you have a PNDI hit for the PA Department of Conservation and Natural Resources Bureaus of Forestry and Topographic and Geologic Survey?	N
Did you have a PNDI hit for the PA Fish and Boat Commission?	Y
Did you have a PNDI hit for the PA Game Commission?	N
Did you have a PNDI hit for the U.S. Fish and Wildlife Service?	N



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WELLBORE SURFACE-HOLE LOCATION	
Surface elevation (in ft.)	768
Latitude/Longitude	40 23 36.3300 -79 50 46.8200
Metadata Method	GPS - UNSPECIFIED
Accuracy (in ft.)	6.67
Datum	North American Datum of 1983
Reference Elevation	1000
USGS Map Name	BRADDOCK
USGS Map Section #	7
Offset South (in feet)	0
Offset West (in feet)	0

WELLBORE LOCATION INFORMATION	
WELLBORE SURFACE HOLE LOCATION	
Type of Wellbore	GAS
Wellbore Configuration	Vertical Well
Target Formation	MARCELLUS FORMATION(MARCF)
Producing Formation	MARCELLUS FORMATION(MARCF)
Oldest Formation Penetrated	MARCELLUS FORMATION(MARCF)
Wellbore Origin Point Lat/Long	40 23 36.3300 -79 50 46.8200
Wellbore Origin Point True Vertical Depth (TVD)	1
Wellbore Origin Point Total Measured Distance (TMD)	1
Bottom Hole Lat/Long	40 25 12.6048 -79 51 38.5560
Bottom Hole True Vertical Depth (TVD)	6456
Bottom Hole Total Measured Distance (TMD)	6456
WELLBORE SIDETRACK	
Type of Wellbore	GAS
Wellbore Configuration	Horizontal Well
Target Formation	MARCELLUS FORMATION(MARCF)
Producing Formation	MARCELLUS FORMATION(MARCF)
Oldest Formation Penetrated	MARCELLUS FORMATION(MARCF)
Wellbore Origin Point Lat/Long	40 23 36.3300 -79 50 46.8200
Wellbore Origin Point True Vertical Depth (TVD)	5389
Wellbore Origin Point Total Measured Distance (TMD)	5389
Wellbore Deepest Point Lat/Long	40 23 42.7308 -79 50 44.8188
Wellbore Deepest Point True Vertical Depth (TVD)	6408
Wellbore Deepest Point Total Measured Distance (TMD)	6875
Bottom Hole Lat/Long	40 25 12.6048 -79 51 38.5560
Bottom Hole True Vertical Depth (TVD)	6408
Bottom Hole Total Measured Distance (TMD)	16875

WELL PAD LOCATION INFORMATION	
Well Pad Corner 1 Lat/Long	
Well Pad Corner 2 Lat/Long	
Well Pad Corner 3 Lat/Long	
Well Pad Corner 4 Lat/Long	
Well Site GPS Location Lat/Long	40 23 35.4480 -79 50 47.5440
Well Site Access Road GPS Lat/Long	40 23 37.3920 -79 50 42.4320

SUBMISSION INFORMATION
Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. Any false statement is subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).
I hereby certify that, for all interested parties identified in this application for which written consent or an "Affidavit of Non-Delivery of Certified Mail" has not been uploaded, copies of the well plat have been sent via certified mail and I have received a return receipt verifying delivery.



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Submitted By	PHILANA THOMPSON
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INTERESTED PARTIES			
Interested Party BOROUGH OF EAST MCKEESPORT	Address 907 FLORENCE AVE EAST MCKEESPORT, PA 15035	Notifications MU - Municipalities	
Municipality Y	Notified MAIL	Certified Mail Sent Date 07/06/2018	Certified Mail Delivery Date 07/09/2018
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations			
Interested Party BOROUGH OF TURTLE CREEK	Address 125 MONROEVILLE AVE TURTLE CREEK, PA 15145	Notifications MU - Municipalities	
Municipality Y	Notified MAIL	Certified Mail Sent Date 07/06/2018	Certified Mail Delivery Date 07/09/2018
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations			
Interested Party BOROUGH OF WILMERDING	Address 301 STATION STREET WILMERDING, PA 15148	Notifications MU - Municipalities	
Municipality Y	Notified MAIL	Certified Mail Sent Date 07/06/2018	Certified Mail Delivery Date 07/10/2018
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations			
Interested Party CITY OF DUQUENSNE	Address 12 SOUTH SECOND STREET DUQUESNE, PA 15110	Notifications MU - Municipalities	
Municipality Y	Notified MAIL	Certified Mail Sent Date 07/06/2018	Certified Mail Delivery Date 07/09/2018
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations			
Interested Party CITY OF MCKEESPORT	Address 500 5TH AVE MCKEESPORT, PA 15132	Notifications MU - Municipalities	
Municipality Y	Notified MAIL	Certified Mail Sent Date 07/06/2018	Certified Mail Delivery Date 07/09/2018
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations			
Interested Party EAST PITTSBURGH BOROUGH	Address 813 LINDEN AVE EAST PITTSBURGH, PA 15112	Notifications MU - Municipalities	
Municipality Y	Notified MAIL	Certified Mail Sent Date 07/06/2018	Certified Mail Delivery Date 07/09/2018
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations			
Interested Party MUNICIPALITY OF MONROEVILLE	Address 2700 MONROEVILLE BLVD MONROEVILLE, PA 15146	Notifications MU - Municipalities	
Municipality Y	Notified MAIL	Certified Mail Sent Date 07/06/2018	Certified Mail Delivery Date 07/09/2018
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations			
Interested Party NORTH BRADDOCK BOROUGH	Address 600 ANDERSON STREET NORTH BRADDOCK, PA 15104	Notifications MU - Municipalities	
Municipality Y	Notified MAIL	Certified Mail Sent Date 07/06/2018	Certified Mail Delivery Date 07/09/2018
Address Affidavit	Written Consent	Notification Acknowledgement Date	Uploaded Files



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N	N		
Water Source Locations			
Interested Party NORTH HUNTINGDON TOWNSHIP	Address 11279 CENTER HIGHWAY NORTH HUNTINGDON, PA 15642	Notifications MU - Municipalities	
Municipality NORTH HUNTINGDON TOWNSHIP	Notified MAIL	Certified Mail Sent Date 02/11/2019	Certified Mail Delivery Date 02/14/2019
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations			
Interested Party NORTH VERSAILLES TWP	Address 1401 GREENSBURG AVE NORTH VERSAILLES, PA 15137	Notifications MU - Municipalities	
Municipality Y	Notified MAIL	Certified Mail Sent Date 07/06/2018	Certified Mail Delivery Date 07/09/2018
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations			
Interested Party TRAFFORD	Address 414 BRINTON AVE TRAFFORD, PA 15085	Notifications MU - Municipalities	
Municipality TRAFFORD	Notified MAIL	Certified Mail Sent Date 03/05/2019	Certified Mail Delivery Date 03/06/2019
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations			
Interested Party UNITED STATES STEEL CORPORATION- EDGAR THOMSON PLANT	Address 13TH STREET AND BRADDOCK AVENUE BRADDOCK, PA 15104	Notifications SL - Surface Landowner	
Municipality	Notified PERSON	Certified Mail Sent Date	Certified Mail Delivery Date
Address Affidavit	Written Consent Y	Notification Acknowledgement Date 06/27/2018	Uploaded Files US Steel Written Notification.pdf
Water Source Locations			
Interested Party VALUE ADDED PROCESSING INC.	Address 760 BRADDOCK AVE EAST PITTSBURGH, PA 15112	Notifications WPU - Surface Landowners and Water Purveyors with water supplies less than 3000 ft	
Municipality	Notified MAIL	Certified Mail Sent Date 11/13/2018	Certified Mail Delivery Date 11/26/2018
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations 40 23 44.0000 -79 50 09.0000 Water Well - Water Purveyor			
Interested Party WALL BOROUGH	Address 413 WALL AVE WALL, PA 15148	Notifications MU - Municipalities	
Municipality Y	Notified MAIL	Certified Mail Sent Date 07/06/2018	Certified Mail Delivery Date 07/09/2018
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations			
Interested Party WEST MIFFLIN BOROUGH	Address 1020 LEBANON ROAD WEST MIFFLIN, PA 15122	Notifications MU - Municipalities	
Municipality Y	Notified MAIL	Certified Mail Sent Date 12/13/2018	Certified Mail Delivery Date 12/18/2018
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations			
Interested Party WHITE OAK BOROUGH	Address 2280 LINCOLN WAY	Notifications MU - Municipalities	



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	WHITE OAK, PA 15131		
Municipality Y	Notified MAIL	Certified Mail Sent Date 07/06/2018	Certified Mail Delivery Date 07/09/2018
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations			



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UPLOADED FILES		
Attachment Coordination of Well Location with Public Resources	File Name COORDINATION_OF_A_WELL_LOCATION_WITH_PUBLIC_RESOURCES	File Upload Date 12/17/2018
Cryptographic Hash Value of File (SHA-512) 4F836D2A9D57F3CF9CE1FCDC7CB0CA807BA379E23722BC9A7C252B18A55E2A22FB4D4C2994B3C34A385DC50A44F776D205CCF55BEBA282FC23EF3B1D1F744F7E		
Attachment Justification for Non-Coal Well	File Name 2018-12-04 Non-coal Justification.pdf	File Upload Date 12/17/2018
Cryptographic Hash Value of File (SHA-512) 481565A9D4C9F223189AC736DC34C9E9FD3174D81461A99D1746F6B13E2462543C9BC6ABE186CC098309CFA2A5155CC913FB904D4CF69D3C7A8422307CA50BB2		
Attachment Location Plat	File Name BRADDOCK 1H WELL PLAT_3702.dwg	File Upload Date 03/07/2019
Cryptographic Hash Value of File (SHA-512) 3C3CF4FFF7D8A440AD7D40F304AFBE43139508370A84C586002F4CFC7379D726B010CEA16FA391942A13B427E3EA47F8CFB1F7C2E555802E2CA45450224B1ECA		
Attachment Pennsylvania Natural Diversity Inventory Form	File Name 2018-11-29 pndi ET-Braddock.pdf	File Upload Date 12/17/2018
Cryptographic Hash Value of File (SHA-512) 857884FF51E678B5DD09E58C434EEAD4747940C666865C9A8BA1CE9D4B59558F728CEA4D5D48F2D899EB42734E9AAF67FA30F23F6361BE57A1B45D8E1FBC3E58		
Attachment Operator Ownership and Control Information	File Name 8000-FM-OOGM0118.pdf	File Upload Date 12/17/2018
Cryptographic Hash Value of File (SHA-512) 078699A7C1C83754246F5DD1FE8949AFCBE79F7F0D597BDF398DB7DB22E48AA93144EBC2B072E70BC2F6A4D4086224E8D36B40B77854F83D1528A4D9B3853451		
Attachment Pennsylvania Natural Diversity Inventory Support Document (PA Fish and Boat)	File Name 2018-11-29 pndi ET-Braddock.pdf	File Upload Date 12/17/2018
Cryptographic Hash Value of File (SHA-512) 857884FF51E678B5DD09E58C434EEAD4747940C666865C9A8BA1CE9D4B59558F728CEA4D5D48F2D899EB42734E9AAF67FA30F23F6361BE57A1B45D8E1FBC3E58		
Attachment Variance Request - Distance Requirements (OOGM0058)	File Name variance.pdf	File Upload Date 01/08/2019
Cryptographic Hash Value of File (SHA-512) 8554CF0F78318EC790E839140B7B9C471688AE6657378C7CF078B9A0130D417ADA9D2DD6EEDC1AD7A8978A27FAC9C80AE8FAA0121FE84BA604ED542C6CFBA29C		
Attachment Well Cross-Section Diagram	File Name ET-Braddock 1H Well Plan.pdf	File Upload Date 03/08/2019
Cryptographic Hash Value of File (SHA-512) 6AD74976E36CE355DDC65D317F6FE4832D244990D75CF647B9148F09B0F459D622760F8447E1560443B807D55E325C16615D8A0A0F732C17B7FCC2AC108E1063		
Attachment UNITED STATES STEEL CORPORATION- EDGAR THOMSON PLANT	File Name US Steel Written Notification.pdf	File Upload Date 12/17/2018
Cryptographic Hash Value of File (SHA-512) 1DED0A096E017C8AF4D7795203AF0B76B24088FE41ECC3CC9E9C4F3C5B9790EAA8038C2B9E5C5D27429189A005638309DFB007DF77547B0135E3885CABFF2A		