

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 CHESAPEAKE APPALACHIA LLC	Legal Name CHESAPEAKE APPALACHIA, LLC	DEP Client ID# 246326	Phone 570-882-7702	FAX 570-888-4030
Mailing Address (Street or PO Box) 14 CHESAPEAKE LN	Address 2			
City SAYRE	State PA	Zip +4 18840-1567		
Email Address eric.haskins@chk.com	24/7 Emergency Contact Name / Number EMERGENCY CONTACT CENTER 888-460-0003			

WELL INFORMATION			
(Well) Farm Name JOEGUSWA			
Well # 5HC	Serial #	Project # (from DEP)	
County SULLIVAN	Municipality CHERRY TWP	911 Address of Well site (or nearest intersection) 258 DOG FARM ROAD DUSHORE PA 18614	
Is this an Unconventional well? Y	Is this a Coal well? N	Bond Agreement ID 10611 - BLANKET (\$850,000)	Well Deepest Point (TVD) 8293

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

WELL PAD INFORMATION			
Well Pad Name JOEGUSWA SUL			
Is this well covered under an ESCGP? Y	ESCGP Number 950548	Will this well be built on a well pad? Y	Well Pad 147539-JOEGUSWA SUL

COORDINATION QUESTIONS	
Will the well be subject to the Oil and Gas Conservation Law?	N
Will either the edge of the disturbed area of any portion of the well site of the unconventional well be within 100 feet, or the vertical well bore be within 300 feet, from the edge of any solid blue lined stream, spring or body of water identified on the most current 7 1/2 topographic quadrangle map or wetland greater than one acre in size or in a wetland?	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?"	N
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 an existing well site that has an active permitted well, or currently valid permit on this well site, for a well that was permitted on or before 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 disturbs 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?	N
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?	N
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.)	1771
Latitude/Longitude	41 32 59.4900 -76 22 31.8500
Metadata Method	GPS - UNSPECIFIED
Accuracy (in ft.)	.033
Datum	North American Datum of 1983
Reference Elevation	1771
USGS Map Name	DUSHORE
USGS Map Section #	6
Offset South (in feet)	12197
Offset West (in feet)	140

WELLBORE LOCATION INFORMATION	
WELLBORE SURFACE HOLE LOCATION	
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	41 32 59.4900 -76 22 31.8500
Wellbore Origin Point True Vertical Depth (TVD)	0
Wellbore Origin Point Total Measured Distance (TMD)	0
Wellbore Deepest Point Lat/Long	41 33 00.8100 -76 22 24.6800
Wellbore Deepest Point True Vertical Depth (TVD)	8293
Wellbore Deepest Point Total Measured Distance (TMD)	8619
Bottom Hole Lat/Long	41 31 18.6400 -76 21 34.6700
Bottom Hole True Vertical Depth (TVD)	8293
Bottom Hole Total Measured Distance (TMD)	19637

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	41 32 59.3592 -76 22 32.2104
Well Site Access Road GPS Lat/Long	41 32 49.7472 -76 22 54.3864

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.	
Submitted By	CARLA HARRIS
Document Generated	11/07/2017 12:19:19 PM

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INTERESTED PARTIES			
Interested Party ALBANY TOWNSHIP	Address SUPERVISOR'S OFFICE 817 DOG FARM RD. NEW ALBANY, PA 18833	Notifications MU - Municipalities	
Municipality ALBANY TOWNSHIP	Notified MAIL	Certified Mail Sent Date 08/22/2017	Certified Mail Delivery Date 08/25/2017
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations			
Interested Party AUGUSTUS N AND MADELINE WADSWORTH; JOSEPH A. AND MARY T. WADSWORTH	Address 24 STEINER RD DUSHORE, PA 18641	Notifications SL - Surface Landowner WPU - Surface Landowners and Water Purveyors with water supplies less than 3000 ft	
Municipality	Notified MAIL	Certified Mail Sent Date 08/22/2017	Certified Mail Delivery Date 08/25/2017
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations 41 32 51.2500 -76 22 33.6300 Water Well - Private Supply			
Interested Party CHARLES R AND CINDY ANN MCANULTY	Address PO BOX 244; 537 DOG FARM RD DUSHORE, PA 18641	Notifications WPU - Surface Landowners and Water Purveyors with water supplies less than 3000 ft	
Municipality	Notified MAIL	Certified Mail Sent Date 08/22/2017	Certified Mail Delivery Date
Address Affidavit Y	Written Consent N	Notification Acknowledgement Date	Uploaded Files Charles McAnulty.pdf
Water Source Locations 41 33 14.4800 -76 22 52.7000 Water Well - Private Supply			
Interested Party CHARLES S YARICK AND RONALD B SEBASTIANELLI	Address 131 ELM ST WEST PITTSTON, PA 18643	Notifications WPU - Surface Landowners and Water Purveyors with water supplies less than 3000 ft	
Municipality	Notified MAIL	Certified Mail Sent Date 08/22/2017	Certified Mail Delivery Date
Address Affidavit Y	Written Consent N	Notification Acknowledgement Date	Uploaded Files Charles Yarick.pdf
Water Source Locations 41 33 14.2300 -76 22 49.0600 Water Well - Private Supply			
Interested Party CHERRY TOWNSHIP	Address SUPERVISOR'S OFFICE 11961 RT. 87 DUSHORE, PA 18614	Notifications MU - Municipalities	
Municipality CHERRY TOWNSHIP	Notified MAIL	Certified Mail Sent Date 08/22/2017	Certified Mail Delivery Date 08/29/2017
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations			
Interested Party COLLEY TOWNSHIP	Address SUPERVISOR'S OFFICE 5815 ROUTE 487 LOPEZ, PA 18628	Notifications MU - Municipalities	
Municipality COLLEY TOWNSHIP	Notified MAIL	Certified Mail Sent Date 08/22/2017	Certified Mail Delivery Date 08/31/2017
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations			
Interested Party DAVID B RAUB	Address PO BOX 582 DUSHORE, PA 18641	Notifications WPU - Surface Landowners and Water Purveyors with water supplies less than 3000 ft	
Municipality	Notified MAIL	Certified Mail Sent Date 08/22/2017	Certified Mail Delivery Date
Address Affidavit Y	Written Consent N	Notification Acknowledgement Date	Uploaded Files David Raub.pdf
Water Source Locations 41 32 58.8900 -76 22 50.4500 Water Well - Private Supply			

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Interested Party DUSHORE BOROUGH	Address SUPERVISOR'S OFFICE PO BOX 248 DUSHORE, PA 18614	Notifications MU - Municipalities	
Municipality DUSHORE BOROUGH	Notified MAIL	Certified Mail Sent Date 08/22/2017	Certified Mail Delivery Date
Address Affidavit Y	Written Consent N	Notification Acknowledgement Date	Uploaded Files Dushore Borough.pdf
Water Source Locations			
Interested Party FORKS TOWNSHIP	Address SUPERVISOR'S OFFICE 627 MOLYNEUX HILL RD. DUSHORE, PA 18614	Notifications MU - Municipalities	
Municipality FORKS TOWNSHIP	Notified MAIL	Certified Mail Sent Date 08/22/2017	Certified Mail Delivery Date 08/25/2017
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations			
Interested Party J PATRICK THOMAS FARROW	Address 424 CHURCH ST YEADON, PA 19050	Notifications WPU - Surface Landowners and Water Purveyors with water supplies less than 3000 ft	
Municipality	Notified MAIL	Certified Mail Sent Date 08/30/2017	Certified Mail Delivery Date 09/02/2017
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations 41 32 40.9700 -76 22 58.6100 Water Well - Private Supply			
Interested Party JAMES H AND MICHELLE Y CORSON	Address 415 CHURCH STREET READING, PA 19601	Notifications WPU - Surface Landowners and Water Purveyors with water supplies less than 3000 ft	
Municipality	Notified MAIL	Certified Mail Sent Date 08/22/2017	Certified Mail Delivery Date 09/18/2017
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations 41 33 05.4200 -76 23 08.6400 Water Well - Private Supply			
Interested Party KENNETH R WEISS TRUSTEE; JUSTIN F ORR; COLIN M ORR; MATTHEW A ORR AND BENJAMIN ORR	Address 3216 OLD BURNT STORE RD N CAPE CORAL, FL 33993	Notifications WPU - Surface Landowners and Water Purveyors with water supplies less than 3000 ft	
Municipality	Notified MAIL	Certified Mail Sent Date 08/22/2017	Certified Mail Delivery Date 08/25/2017
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations 41 33 08.6400 -76 22 12.1100 Water Well - Private Supply 41 33 08.2400 -76 22 10.1300 Water Well - Private Supply			
Interested Party LAPORTE TOWNSHIP	Address SUPERVISOR'S OFFICE PO BOX 100 LAPORTE, PA 18626	Notifications MU - Municipalities	
Municipality LAPORTE TOWNSHIP	Notified MAIL	Certified Mail Sent Date 08/22/2017	Certified Mail Delivery Date 08/25/2017
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations			
Interested Party LARRY E AND MARY BETH RIDENOUR	Address 17 WAMBOLD RD GREEN LANE, PA 18054	Notifications WPU - Surface Landowners and Water Purveyors with water supplies less than 3000 ft	
Municipality	Notified MAIL	Certified Mail Sent Date 08/22/2017	Certified Mail Delivery Date 08/25/2017
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations 41 32 44.6300 -76 22 59.2600 Water Well - Private Supply			
Interested Party MARK M AND JENNIFER L MORROW	Address 2 OXFORD DR MORGANTOWN, PA 19543	Notifications WPU - Surface Landowners and Water Purveyors with water supplies less than 3000 ft	

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Municipality	Notified MAIL	Certified Mail Sent Date 10/04/2017	Certified Mail Delivery Date 10/06/2017
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations 41 33 06.5000 -76 23 07.3100 Water Well - Private Supply			
Interested Party MICHAEL J AND CHRISTINA A FARROW	Address 526 MERVINE ST POTTSTOWN, PA 19464	Notifications WPU - Surface Landowners and Water Purveyors with water supplies less than 3000 ft	
Municipality	Notified MAIL	Certified Mail Sent Date 08/22/2017	Certified Mail Delivery Date 08/25/2017
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations 41 32 43.9300 -76 22 45.2500 Water Well - Private Supply			
Interested Party OVERTON TOWNSHIP	Address SUPERVISOR'S OFFICE 80 MCGROARTY LANE NEW ALBANY, PA 18833	Notifications MU - Municipalities	
Municipality OVERTON TOWNSHIP	Notified MAIL	Certified Mail Sent Date 08/22/2017	Certified Mail Delivery Date 08/31/2017
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations			
Interested Party RICHARD W PEDRO	Address 1024 MARSH RD NEW ALBANY, PA 18833	Notifications WPU - Surface Landowners and Water Purveyors with water supplies less than 3000 ft	
Municipality	Notified MAIL	Certified Mail Sent Date 08/22/2017	Certified Mail Delivery Date 08/30/2017
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations 41 33 08.7200 -76 23 07.0300 Water Well - Private Supply			
Interested Party ROBERT J AND DONNA J GLAUDEL	Address 158 DOG FARM RD DUSHORE, PA 18641	Notifications WPU - Surface Landowners and Water Purveyors with water supplies less than 3000 ft	
Municipality	Notified MAIL	Certified Mail Sent Date 08/30/2017	Certified Mail Delivery Date 09/02/2017
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations 41 32 39.4300 -76 22 53.5400 Water Well - Private Supply			
Interested Party WILMOT TOWNSHIP	Address SUPERVISOR'S OFFICE PO BOX 55 SUGAR RUN, PA 18846	Notifications MU - Municipalities	
Municipality WILMOT TOWNSHIP	Notified MAIL	Certified Mail Sent Date 08/22/2017	Certified Mail Delivery Date 08/26/2017
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations			

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UPLOADED FILES		
Attachment Justification for Non-Coal Well	File Name Coal Map.pdf	File Upload Date 10/11/2017
Cryptographic Hash Value of File (SHA-512) 0B98D5CADD719EDDCA8AA878458D430A55540FD8812B440A9CC3016E7CE0839185C29A7E8BA32E88835192F69B5D3EC30EF7C0E05097F3B7117BF0DD0B6451B1		
Attachment Location Plat	File Name JOEGUSWA 5HC_EFILE-20170810_3701.dwg	File Upload Date 10/11/2017
Cryptographic Hash Value of File (SHA-512) 592D35F2F9B652F609F3472F56E7A8AB9B3F61A822E80D5754DDADA7ACA91F59C15EA5F6B37B6F1F2F638369F598F4C0456818D2EEBD276D5AAE0BF8807DCA91		
Attachment Pennsylvania Natural Diversity Inventory Form	File Name PNDI_2017-08-17.pdf	File Upload Date 11/06/2017
Cryptographic Hash Value of File (SHA-512) DA9F19B04BDE057D5CC1C2031CB546AE2FC2A8CBC8E81BC9FED80D80EC9DC12D6C95511E8A5C0F14240B139A315A186F2C20EAAF7B9B4063B709C422712F39		
Attachment Operator Ownership and Control Information	File Name OandG.pdf	File Upload Date 10/11/2017
Cryptographic Hash Value of File (SHA-512) D4E8ADB1408B065121A2FBFCF2CC06994FC55A8001180614D509E6D8B460D05C1687FBD93D2BB47BC15A07F48140BFE4E66F431CA02559663B962D07E3F2B7E		
Attachment Well Cross-Section Diagram	File Name WCS.pdf	File Upload Date 10/11/2017
Cryptographic Hash Value of File (SHA-512) 3E619E754E5E1EEF5660A726294325080AC9C39E298E9E59D7CE93EAE6333F487C0DF4EC8DB3DF6820F80EA7CD23BC11050DE8C0E201D5A15D2EC463A6A9FC55		
Attachment CHARLES R AND CINDY ANN MCANULTY	File Name Charles McAnulty.pdf	File Upload Date 11/06/2017
Cryptographic Hash Value of File (SHA-512) 14D6F930085CF370FD685E720B882EA15713185CD483B58D8FF4B90E7F3AE6CADA81F1EAC1771EB91F400C6C5910F1BAE13EEDD09EB96A689E3628195D49275C		
Attachment CHARLES S YARICK AND RONALD B SEBASTIANELLI	File Name Charles Yarick.pdf	File Upload Date 11/06/2017
Cryptographic Hash Value of File (SHA-512) 473D7DA62CB467DF9640E709D180B78875905C3C149EE129C4EB9EA4353286A24FA7C5963A9BC5248FEDCA7974A0D37DA4004353BB48EC56B9F2CFE8CC74B28		
Attachment DAVID B RAUB	File Name David Raub.pdf	File Upload Date 11/06/2017
Cryptographic Hash Value of File (SHA-512) A702556A7FBEDC19D62A3B6AF75DF2027EF6FD029F349A0B5D666449DAE101C4E8D0DCE38939B5DF004336CEC2EE262A78B3A44CCDC1C4BC5E9EBDCAE9E82705		
Attachment DUSHORE BOROUGH	File Name Dushore Borough.pdf	File Upload Date 11/06/2017
Cryptographic Hash Value of File (SHA-512) D77DE2B61B0659B733B20C992627B774EE69D22DBBB7FA4BCEA76B18D47DA28F7638AA18250A5A6845D79090289B4CC0AD03AAF9018667BCE60C77CF207FF6DD		