

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 RICE DRILLING B LLC	Legal Name RICE DRILLING B LLC	DEP Client ID# 268470	Phone 724-271-7200	FAX 724-749-5581
Mailing Address (Street or PO Box) 2200 RICE DRIVE	Address 2			
City CANONSBURG	State PA	Zip +4 15317		
Email Address erin.spine@riceenergy.com	24/7 Emergency Contact Name / Number MIKE LAUDERBAUGH 724-809-9897			

WELL INFORMATION			
(Well) Farm Name COSGRAY			
Well # 9	Serial #	Project # (from DEP)	
County GREENE	Municipality FRANKLIN TWP	911 Address of Well site (or nearest intersection) 269 Wayne Road Waynesburg PA 15370	
Is this an Unconventional well? Y	Is this a Coal well? Y	Bond Agreement ID 11936 - BLANKET (\$459,000)	Well Deepest Point (TVD) 7725

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 PORTER STREET 3			
Is this well covered under an ESCGP? Y	ESCGP Number 925859	Will this well be built on a well pad? Y	Well Pad 149768-PORTER STREET 3

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

COAL MODULE	
Will the well penetrate a workable coal seam?	Y
Have any coal rights been severed from the surface estate?	Y



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If the coal rights been severed from the surface estate, have the owners of the workable and unworkable coal seams been notified?	Y
Is this a "non-conservation" gas well?	Y
If the well will penetrate a workable coal seam, and the well is a 'non-conservation' gas well, does the location comply with the distance requirements of Section 7 of the Coal and Gas Resource Coordination Act (at least 1,000 feet from all existing wells) and, if part of a well cluster, at least 2,000 feet from any other existing cluster, as measured from the center of the well bore of the nearest well?	Y
Will the well be part of a Well Cluster which is an area within a well pad intended to host multiple horizontal wells and which comprises an area no greater than 5,000 square feet?	Y
Will this well be part of a Well Cluster that already has an approved OG-57 waiver?	N
Will this well be drilled into solid coal or into an open underground void?	SC
Will the well be drilled through an operating coal mine, or within 1,000 feet of the boundary?	Y
Provide the names of Mine(s) and Operator(s):	EMERALD 1 MINE, EMERALD CONTURA LLC
Does it meet the Gas Well Pillar Study?	Y
Has the surface landowner been notified and provided a copy of the Landowner Notification of Right to Participate in Alternative Dispute Resolution to Coal Bed Methane Wells (form 5500-FM-OG0053)?	N

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WELLBORE SURFACE-HOLE LOCATION	
Surface elevation (in ft.)	1107
Latitude/Longitude	39 54 14.5100 -80 10 12.2300
Metadata Method	GPS CARRIER PHASE KINEMATIC RELATIVE POSITION
Accuracy (in ft.)	3
Datum	North American Datum of 1983
Reference Elevation	1107
USGS Map Name	WAYNESBURG
USGS Map Section #	8
Offset South (in feet)	4603
Offset West (in feet)	953

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	39 54 14.5100 -80 10 12.2300
Wellbore Origin Point True Vertical Depth (TVD)	0
Wellbore Origin Point Total Measured Distance (TMD)	0
Wellbore Deepest Point Lat/Long	39 56 04.7000 -80 11 39.4100
Wellbore Deepest Point True Vertical Depth (TVD)	7725
Wellbore Deepest Point Total Measured Distance (TMD)	20809
Bottom Hole Lat/Long	39 56 04.7000 -80 11 39.4100
Bottom Hole True Vertical Depth (TVD)	7725
Bottom Hole Total Measured Distance (TMD)	20809

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	39 54 13.9392 -80 10 11.8308
Well Site Access Road GPS Lat/Long	39 54 42.2064 -80 10 04.5516

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	ERIN SPINE
Document Generated	08/03/2017 12:09:59 PM

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INTERESTED PARTIES			
Interested Party CARL G. HARING ET UX	Address 1140 9TH STREET WAYNESBURG, PA 15370	Notifications WPU - Surface Landowners and Water Purveyors with water supplies less than 3000 ft	
Municipality	Notified MAIL	Certified Mail Sent Date 03/09/2017	Certified Mail Delivery Date 03/11/2017
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations 39 54 06.0500 -80 10 25.0300 Water Well - Private Supply			
Interested Party CENTER TOWNSHIP	Address 100 MUNICIPAL DRIVE PO BOX 435 ROGERSVILLE, PA 15359	Notifications MU - Municipalities	
Municipality CENTER TOWNSHIP	Notified MAIL	Certified Mail Sent Date 03/02/2017	Certified Mail Delivery Date 03/07/2017
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations			
Interested Party DARYL L THROCKMORTON	Address 657 EAST COLLEGE STREET WAYNESBURG, PA 15370	Notifications WPU - Surface Landowners and Water Purveyors with water supplies less than 3000 ft	
Municipality	Notified MAIL	Certified Mail Sent Date 03/13/2017	Certified Mail Delivery Date 03/22/2017
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations 39 53 55.1100 -80 10 41.0200 Water Well - Private Supply			
Interested Party DAVID J CUMBERLEDGE ET UX	Address 1050 EAST HIGH STREET WAYNESBURG, PA 15370	Notifications WPU - Surface Landowners and Water Purveyors with water supplies less than 3000 ft	
Municipality	Notified MAIL	Certified Mail Sent Date 03/13/2017	Certified Mail Delivery Date 03/14/2017
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations 39 53 47.1300 -80 10 26.5800 Water Well - Private Supply			
Interested Party ELIZABETH A. HOOK ET CON	Address 580 BONAR AVENUE WAYNESBURG, PA 15370	Notifications WWU - Water Supply within 1000 ft	
Municipality	Notified MAIL	Certified Mail Sent Date 03/02/2017	Certified Mail Delivery Date 03/03/2017
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations 39 54 13.1900 -80 10 24.0600 Water Well - Private Supply			
Interested Party EMERALD CONTURA LLC	Address 158 PORTAL ROAD PO BOX 1020 WAYNESBURG, PA 15370	Notifications CO - Coal Owner CMO - Coal Mine Operator within 1000 ft	
Municipality	Notified MAIL	Certified Mail Sent Date 03/06/2017	Certified Mail Delivery Date 03/09/2017
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations			
Interested Party FRANKLIN TOWNSHIP	Address 568 ROLLING MEADOWS ROAD WAYNESBURG, PA 15370	Notifications MU - Municipalities	
Municipality FRANKLIN TOWNSHIP	Notified MAIL	Certified Mail Sent Date 03/02/2017	Certified Mail Delivery Date 03/03/2017
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations			
Interested Party JEFFERSON TOWNSHIP	Address 173 GOSLIN ROAD RICES	Notifications MU - Municipalities	

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	LANDING, PA 15357		
Municipality JEFFERSON TOWNSHIP	Notified MAIL	Certified Mail Sent Date 03/02/2017	Certified Mail Delivery Date 03/06/2017
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations			
Interested Party JESACH PROPERTIES	Address 8611 NORTHWEST 80TH STREET TAMARC, FL 33321		Notifications SL - Surface Landowner CO - Coal Owner
Municipality	Notified MAIL	Certified Mail Sent Date 03/02/2017	Certified Mail Delivery Date
Address Affidavit Y	Written Consent N	Notification Acknowledgement Date	Uploaded Files Cosgray_8000-FM-OOGM0101b_Affidavit of Non-Delivery of Unconventional Well 3.27.2017.pdf
Water Source Locations			
Interested Party MORGAN TOWNSHIP	Address 1019 THIRD STREET EXTENSION PO BOX 3 MATHER, PA 15346		Notifications MU - Municipalities
Municipality MORGAN TOWNSHIP	Notified MAIL	Certified Mail Sent Date 03/02/2017	Certified Mail Delivery Date 03/04/2017
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations			
Interested Party MORRIS TOWNSHIP	Address 1317 BROWNS CREEK ROAD SYCAMORE, PA 15364		Notifications MU - Municipalities
Municipality MORRIS TOWNSHIP	Notified MAIL	Certified Mail Sent Date 03/02/2017	Certified Mail Delivery Date 03/03/2017
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations			
Interested Party RODNEY G. LAWRENCE ET UX	Address 5210 ANGEL DRIVE BATAVIA, OH 45103		Notifications WPU - Surface Landowners and Water Purveyors with water supplies less than 3000 ft
Municipality	Notified MAIL	Certified Mail Sent Date 03/02/2017	Certified Mail Delivery Date 03/04/2017
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations 39 53 49.3800 -80 10 27.4100 Water Well - Private Supply			
Interested Party ROSEMARIE MOREHEAD	Address 97 WOODLAND AVENUE WAYNESBURG, PA 15370		Notifications WPU - Surface Landowners and Water Purveyors with water supplies less than 3000 ft
Municipality	Notified MAIL	Certified Mail Sent Date 03/13/2017	Certified Mail Delivery Date 03/16/2017
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations 39 53 51.0800 -80 10 34.6300 Water Well - Private Supply			
Interested Party WASHINGTON TOWNSHIP	Address 112 MUNICIPAL LANE PROSPERITY, PA 15329		Notifications MU - Municipalities
Municipality WASHINGTON TOWNSHIP	Notified MAIL	Certified Mail Sent Date 03/02/2017	Certified Mail Delivery Date 03/03/2017
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations			
Interested Party WAYNE TOWNSHIP	Address 132 SPRAGGS ROAD SPRAGGS, PA 15362		Notifications MU - Municipalities
Municipality WAYNE TOWNSHIP	Notified MAIL	Certified Mail Sent Date 03/02/2017	Certified Mail Delivery Date 03/07/2017
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files



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Water Source Locations			
Interested Party WAYNESBURG BOROUGH	Address 90 EAST HIGH STREET WAYNESBURG, PA 15370	Notifications MU - Municipalities	
Municipality WAYNESBURG BOROUGH	Notified MAIL	Certified Mail Sent Date 03/02/2017	Certified Mail Delivery Date 03/03/2017
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations			
Interested Party WHITELEY TOWNSHIP	Address 1426 KIRBY ROAD WAYNESBURG, PA 15370	Notifications MU - Municipalities	
Municipality WHITELEY TOWNSHIP	Notified MAIL	Certified Mail Sent Date 03/02/2017	Certified Mail Delivery Date 03/03/2017
Address Affidavit N	Written Consent N	Notification Acknowledgement Date	Uploaded Files
Water Source Locations			

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UPLOADED FILES		
Attachment Location Plat	File Name Cosgray 9_Pg 1 Final Sealed Dwg.dwg	File Upload Date 07/26/2017
Cryptographic Hash Value of File (SHA-512) DB051CF3D40B446A565C0BD1AECCB439E3845EA6D8DD1EC263CB3766B1E68C5692A2D5779493A20E0AE49A485A89B8788E9AAF8683E38C64D043FC8F8075D89C		
Attachment Pennsylvania Natural Diversity Inventory Form	File Name PNDI_Cosgray.pdf	File Upload Date 02/20/2017
Cryptographic Hash Value of File (SHA-512) 1260F1FC5678BE0C1A110055D8B95BE2B14D29C4B0EBA4F2110C7FD50438C74AE1FE650E0FC33BC372021F3DC0DC78936403B278D7CE51163C0E4A7F7EB219C1		
Attachment Underground Mine Workings Map	File Name Cosgray North_Coal Approval Letter 3.20.2017.pdf	File Upload Date 03/27/2017
Cryptographic Hash Value of File (SHA-512) 02B3A164B1B83C6DDC22CC7A0C74A6CC29C8F782A538D3D56E6783BA4AE83516D47B3E405332B79145EADBABB4BF007433F04732790504F5380D1153AF6C50F		
Attachment Location Plat	File Name Cosgray 9_Pg 2 Final Sealed Dwg.dwg	File Upload Date 07/26/2017
Cryptographic Hash Value of File (SHA-512) 04E62C1E46C331E5E803084E4EB3F7CB79176340D3E96036E4F7E10530E63D98C20BACDB24D47C07781653485B8B41D4786E97F16F4FE3C6EADF91D32154EE6B		
Attachment Location Plat	File Name Cosgray 9_Pg 3 Final Sealed Dwg.dwg	File Upload Date 07/26/2017
Cryptographic Hash Value of File (SHA-512) 61918D9264DC76E19168A735B55E828F57A29FDF33E5A52289D57246CD6D6F27717D48482A77821D478C4D71DBC28C52A715AD167E140386E1881C755D5A8101		
Attachment Location Plat	File Name Cosgray 9_Pg 4 Final Sealed Dwg.dwg	File Upload Date 07/26/2017
Cryptographic Hash Value of File (SHA-512) C39A370B602D0DBF55FFB4CB1A0325E271C83708349F89730E4DDE2F5C4EF0CDB9FA0CAD91C1649A707CCED0A2D069DA27B6EBBF094D130332F0AF6A26D2E4D		
Attachment Operator Ownership and Control Information	File Name SIGNED RDB Oil and Gas Operator Ownership and Control Information_8000-F....pdf	File Upload Date 02/16/2017
Cryptographic Hash Value of File (SHA-512) 7AA470855838797ACAA716F7AE61AD34A7C1B4C0CD6BD3833BA8B9B9AF94B533F6A0B201E5B9C885070BAFB40044D035BFFB1E1B65575A59565F4EFDAC2D8C95		
Attachment Well Cross-Section Diagram	File Name Cosgray 9_FINAL SIGNED PLAT 7.26.2017.pdf	File Upload Date 07/26/2017
Cryptographic Hash Value of File (SHA-512) DB1F93568E669C3B75AC33EB90FEFFB7B35313DC62C79B01D02C0FB14E29FC44A40EF4C08C999F1D8EE87386B7286D69723D8E30D16155D4FE71690BC18E1F8B		
Attachment JESACH PROPERTIES	File Name Cosgray_8000-FM-OOGM0101b_Affidavit of Non-Delivery of Unconventional Well 3.27.2017.pdf	File Upload Date 03/27/2017
Cryptographic Hash Value of File (SHA-512) 394E4D6776A3762E27012012BBFC2CD560DF9F4F1258AE2A1E1889B545ADE46B90DA5A99CB289708C8C269D7506751BC054ADCB3847E3311DD944834D98A8FCA		