

PERMIT APPLICATION TO DRILL AND OPERATE AN UNCONVENTIONAL WELL

| APPLICANT INFORMATION | | | | |
|---|---|--------------------------|-----------------------|-----|
| Applicant (Operator) Name CHEVRON APPALACHIA LLC | Legal Name CHEVRON APPALACHIA, LLC | DEP Client ID# 279986 | Phone 412-865-3140 | FAX |
| Mailing Address (Street or PO Box) 700 CHERRINGTON PARKWAY | Address 2 | | | |
| City CORAOPOLIS | State PA | Zip +4 15108 | | |
| Email Address bweimer@chevron.com | 24/7 Emergency Contact Name / Number BRIAN RANKIN 724-564-3700 | | | |

| WELL INFORMATION | | | |
|--------------------------------------|----------------------------|--|----------------------------------|
| (Well) Farm Name EDENBORN/RGGS B | | | |
| Well # M05H | Serial # 37-051-1081 | Project # (from DEP) | |
| County FAYETTE | Municipality GERMAN TWP | 911 Address of Well site (or nearest intersection) 392 GATES ROAD ADAH PA 15410 | |
| Is this an Unconventional well? Y | Is this a Coal well? Y | Bond Agreement ID 12754 - BLANKET (\$635,000) | Well Deepest Point (TVD) 8163 |

| 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 EDENBORN/RGGS B | | | |
| Will the proposed well location be covered under an existing or previous Erosion and Sediment Control General Permit? Y | ESCGP Number ESX18-051-0003 | Will this well be built on a well pad? Y | Well Pad 155083-EDENBORN/RGGS B |

| 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?" | 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 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? | Y |
| 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? | 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 |



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| | |
|---|-------------------------------|
| Have any coal rights been severed from the surface estate? | Y |
| 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? | BOTH OPEN VOID AND SOLID CORE |
| If this well will be drilled through an open void, provide name(s) of mined-out coal seam(s): | PITTSBURGH |
| Will the well be drilled through an operating coal mine, or within 1,000 feet of the boundary? | N |
| 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.) | 1167 |
| Latitude/Longitude | 39 52 55.2000 -79 53 45.6700 |
| Metadata Method | GPS - UNSPECIFIED |
| Accuracy (in ft.) | .2 |
| Datum | North American Datum of 1983 |
| Reference Elevation | 1167 |
| USGS Map Name | CARMICHAELS |
| USGS Map Section # | 9 |
| Offset South (in feet) | 12632 |
| Offset West (in feet) | 5899 |

| 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 52 55.2000 -79 53 45.6700 |
| Wellbore Origin Point True Vertical Depth (TVD) | 2500 |
| Wellbore Origin Point Total Measured Distance (TMD) | 2500 |
| Wellbore Deepest Point Lat/Long | 39 52 48.7100 -79 53 34.7000 |
| Wellbore Deepest Point True Vertical Depth (TVD) | 8163 |
| Wellbore Deepest Point Total Measured Distance (TMD) | 8581 |
| Bottom Hole Lat/Long | 39 51 16.1300 -79 51 40.9000 |
| Bottom Hole True Vertical Depth (TVD) | 8163 |
| Bottom Hole Total Measured Distance (TMD) | 21485 |

| WELL PAD LOCATION INFORMATION | | |
|--------------------------------------|------------------------------|---------------------------------------|
| Well Pad Corner 1 Lat/Long | 39 52 52.6008 -79 53 48.0408 | |
| Well Pad Corner 2 Lat/Long | 39 52 56.6004 -79 53 48.9012 | |
| Well Pad Corner 3 Lat/Long | 39 52 57.1692 -79 53 44.3400 | |
| Well Pad Corner 4 Lat/Long | 39 52 53.1696 -79 53 43.4904 | |
| Well Site GPS Location Lat/Long | 39 52 54.9516 -79 53 45.9816 | |
| Well Site Access Road GPS Lat/Long | 39 52 37.3188 -79 53 44.7000 | |
| Metadata Method GPS - UNSPECIFIED | Accuracy (in ft.) ±2 | Datum North American Datum of 1983 |

| 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 | BRANDEN WEIMER |
| Document Generated | 11/06/2018 08:57:16 AM |

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| INTERESTED PARTIES | | | |
|--|--|---|--|
| Interested Party BOROUGH OF MASONTOWN | Address 2 COURT AVENUE MASONTOWN, PA 15461 | Notifications MU - Municipalities | |
| Municipality BOROUGH OF MASONTOWN | Notified MAIL | Certified Mail Sent Date 09/10/2018 | Certified Mail Delivery Date 09/13/2018 |
| Address Affidavit N | Written Consent N | Notification Acknowledgement Date | Uploaded Files |
| Water Source Locations | | | |
| Interested Party COMMONWEALTH OF PENNSYLVANIA | Address 2001 ELMERTON AVE HARRISBURG, PA 17110 | Notifications SL - Surface Landowner | |
| Municipality | Notified MAIL | Certified Mail Sent Date 09/21/2018 | Certified Mail Delivery Date 09/24/2018 |
| Address Affidavit N | Written Consent N | Notification Acknowledgement Date | Uploaded Files |
| Water Source Locations | | | |
| Interested Party CUMBERLAND TOWNSHIP | Address 100 MUNICIPAL ROAD CARMICHAELS, PA 15320 | Notifications MU - Municipalities | |
| Municipality CUMBERLAND TOWNSHIP | Notified MAIL | Certified Mail Sent Date 09/10/2018 | Certified Mail Delivery Date 09/14/2018 |
| Address Affidavit N | Written Consent N | Notification Acknowledgement Date | Uploaded Files |
| Water Source Locations | | | |
| Interested Party GEORGES TOWNSHIP | Address 1151 TOWNSHIP DRIVE UNIONTOWN, PA 15401 | Notifications MU - Municipalities | |
| Municipality GEORGES TOWNSHIP | Notified MAIL | Certified Mail Sent Date 09/27/2018 | Certified Mail Delivery Date 10/01/2018 |
| Address Affidavit N | Written Consent N | Notification Acknowledgement Date | Uploaded Files |
| Water Source Locations | | | |
| Interested Party GERMAN TOWNSHIP | Address 2 LONG STREET MCCLELLANDTOWN, PA 15458 | Notifications MU - Municipalities | |
| Municipality GERMAN TOWNSHIP | Notified MAIL | Certified Mail Sent Date 09/10/2018 | Certified Mail Delivery Date 09/12/2018 |
| Address Affidavit N | Written Consent N | Notification Acknowledgement Date | Uploaded Files |
| Water Source Locations | | | |
| Interested Party JAMES MATTHEW BROWN | Address 54 W. ELM STREET FAIRCHANCE, PA 15436 | Notifications WPU - Surface Landowners and Water Purveyors with water supplies less than 3000 ft | |
| Municipality | Notified MAIL | Certified Mail Sent Date 09/10/2018 | Certified Mail Delivery Date 09/14/2018 |
| Address Affidavit N | Written Consent N | Notification Acknowledgement Date | Uploaded Files |
| Water Source Locations 39 53 01.1868 -79 53 25.2600 Surface Water Body - Water Purveyor | | | |
| Interested Party LUZERNE TOWNSHIP | Address 415 HOPEWELL ROAD BROWNSVILLE, PA 15417 | Notifications MU - Municipalities | |
| Municipality LUZERNE TOWNSHIP | Notified MAIL | Certified Mail Sent Date 09/10/2018 | Certified Mail Delivery Date 09/12/2018 |
| Address Affidavit N | Written Consent N | Notification Acknowledgement Date | Uploaded Files |
| Water Source Locations | | | |
| Interested Party MARK R. CERULLO ETAL | Address 233 GATES ROAD ADAH, PA 15410 | Notifications WPU - Surface Landowners and Water Purveyors with water supplies less than 3000 ft | |
| Municipality | Notified MAIL | Certified Mail Sent Date 09/10/2018 | Certified Mail Delivery Date 09/13/2018 |
| Address Affidavit N | Written Consent N | Notification Acknowledgement Date | Uploaded Files |
| Water Source Locations | | | |

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| | | | |
|--|---|---|--|
| 39 52 53.7240 -79 54 14.7240 Surface Water Body - Water Purveyor | | | |
| Interested Party MARK R. CERULLO ETAL | Address 233 GATES ROAD ADAH, PA 15410 | Notifications WPU - Surface Landowners and Water Purveyors with water supplies less than 3000 ft | |
| Municipality | Notified MAIL | Certified Mail Sent Date 09/10/2018 | Certified Mail Delivery Date 09/13/2018 |
| Address Affidavit N | Written Consent N | Notification Acknowledgement Date | Uploaded Files |
| Water Source Locations 39 52 51.9960 -79 54 16.2720 Surface Water Body - Water Purveyor | | | |
| Interested Party MENALLEN TOWNSHIP | Address 427 SEARIGHT HERBERT ROAD UNIONTOWN, PA 15401 | Notifications MU - Municipalities | |
| Municipality MENALLEN TOWNSHIP | Notified MAIL | Certified Mail Sent Date 09/10/2018 | Certified Mail Delivery Date 09/12/2018 |
| Address Affidavit N | Written Consent N | Notification Acknowledgement Date | Uploaded Files |
| Water Source Locations | | | |
| Interested Party MICHAEL & CHARITY P. KARLOWICZ | Address 375 GATES ROAD ADAH, PA 15410 | Notifications WPU - Surface Landowners and Water Purveyors with water supplies less than 3000 ft | |
| Municipality | Notified MAIL | Certified Mail Sent Date 09/10/2018 | Certified Mail Delivery Date 09/14/2018 |
| Address Affidavit N | Written Consent N | Notification Acknowledgement Date | Uploaded Files |
| Water Source Locations 39 52 32.8080 -79 53 55.2480 Water Well - Water Purveyor | | | |
| Interested Party MONONGAHELA TOWNSHIP | Address 128 MAPLE RIDGE ROAD GREENSBORO, PA 15338 | Notifications MU - Municipalities | |
| Municipality MONONGAHELA TOWNSHIP | Notified MAIL | Certified Mail Sent Date 09/10/2018 | Certified Mail Delivery Date 09/12/2018 |
| Address Affidavit N | Written Consent N | Notification Acknowledgement Date | Uploaded Files |
| Water Source Locations | | | |
| Interested Party NICHOLSON TOWNSHIP | Address 142 WOODSIDE OLD FRAME ROAD SMITHFIELD, PA 15478 | Notifications MU - Municipalities | |
| Municipality NICHOLSON TOWNSHIP | Notified MAIL | Certified Mail Sent Date 09/10/2018 | Certified Mail Delivery Date 09/12/2018 |
| Address Affidavit N | Written Consent N | Notification Acknowledgement Date | Uploaded Files |
| Water Source Locations | | | |
| Interested Party REDSTONE TOWNSHIP | Address 225 TWIN HILLS ROAD GRINDSTONE, PA 15442 | Notifications MU - Municipalities | |
| Municipality REDSTONE TOWNSHIP | Notified MAIL | Certified Mail Sent Date 09/10/2018 | Certified Mail Delivery Date 09/12/2018 |
| Address Affidavit N | Written Consent N | Notification Acknowledgement Date | Uploaded Files |
| Water Source Locations | | | |
| Interested Party RGGS LAND & MINERALS LTD LP | Address 100 WAUGH DRIVE SUITE 400 HOUSTON, TX 77007 | Notifications CO - Coal Owner | |
| Municipality | Notified MAIL | Certified Mail Sent Date 09/10/2018 | Certified Mail Delivery Date 09/13/2018 |
| Address Affidavit N | Written Consent N | Notification Acknowledgement Date | Uploaded Files |
| Water Source Locations | | | |
| Interested Party ROBERT JR. & PAT STERBUTZEL | Address PO BOX 337 MCCLELLANDTOWN, PA 15458 | Notifications WPU - Surface Landowners and Water Purveyors with water supplies less than 3000 ft | |
| Municipality | Notified MAIL | Certified Mail Sent Date 09/10/2018 | Certified Mail Delivery Date 09/12/2018 |



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| | | | |
|--|--|---|--|
| Address Affidavit N | Written Consent N | Notification Acknowledgement Date | Uploaded Files |
| Water Source Locations 39 52 37.1568 -79 53 15.6804 Surface Water Body - Water Purveyor | | | |
| Interested Party ROBERT L. & PATRICIA A. STERBUTZEL | Address PO BOX 337 MCCLELLANDTOWN, PA 15458 | Notifications WPU - Surface Landowners and Water Purveyors with water supplies less than 3000 ft | |
| Municipality | Notified MAIL | Certified Mail Sent Date 09/10/2018 | Certified Mail Delivery Date 09/12/2018 |
| Address Affidavit N | Written Consent N | Notification Acknowledgement Date | Uploaded Files |
| Water Source Locations 39 52 35.7037 -79 53 21.5833 Surface Water Body - Water Purveyor | | | |
| Interested Party SOUTH UNION TOWNSHIP | Address 151 TOWNSHIP DRIVE UNIONTOWN, PA 15401 | Notifications MU - Municipalities | |
| Municipality SOUTH UNION TOWNSHIP | Notified MAIL | Certified Mail Sent Date 09/10/2018 | Certified Mail Delivery Date 09/12/2018 |
| 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 Edenborn M05H OG-76.pdf | File Upload Date 11/05/2018 |
| Cryptographic Hash Value of File (SHA-512) 752206B534C4DD7781B2984DCEB10E13A746661B835A4189C5DFB2C7A2CA8CBED72982558C58C8B1841E5E16C229EC4A27BDFC72FE9E01DD2C5240FF2D187D50 | | |
| Attachment Location Plat | File Name Edenborn Well Plat M5H.dwg | File Upload Date 11/05/2018 |
| Cryptographic Hash Value of File (SHA-512) 7F9051806A55B50909C90CF49A6C178C2BD4ABA90F9CBE3098A4EF749923225B4A06A772426173A622A4C1BC1C1996765716A4BBA46F819A04644E9104058036 | | |
| Attachment Pennsylvania Natural Diversity Inventory Form | File Name EdenbornRGGS PNDI.pdf | File Upload Date 11/05/2018 |
| Cryptographic Hash Value of File (SHA-512) 032BD25F64114047EAEDB842CCB45F14E3761E8BED3F0C24A8F9F67869EE4864A475312BB01E9A4E80DE21A52985D50033604CA9FFA1FFA89FF61AACFC6BD4AF | | |
| Attachment Well Cross-Section Diagram | File Name Edenborn RGGS M05H Page 4.pdf | File Upload Date 11/05/2018 |
| Cryptographic Hash Value of File (SHA-512) EF0D9C05A47DE275D387782EC060EB218D5714775516B1D7FBA59E9F26BD9911771FAF016A8B1B1A10E1FB7617C018ED6E45E51CD047C1CA567E219C5E16CB5A | | |