



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS MANAGEMENT PROGRAM

DEP USE ONLY	
Permittee's eFACTS ID 298117	Auth ID 1065660
Watershed Name	Quality

WELL PERMIT

Permittee EM ENERGY PENNSYLVANIA LLC		OGO.# OGO-39487	Permit Number 37-019-22433-00-00		Date Issued 04/24/2015
Address 1800 MAIN ST			Farm Name & Well Number POLARIS 9 BH		Well Serial #
SUITE 220			Municipality Oakland Twp	County Butler	
CANONSBURG, PA 15317			7½' Quadrangle Name East Butler		Map Section # 4
Phone (412) 564-1300	Project #		Latitude 40-57-16.8400	Longitude -79-52-18.7100	
Surf Elev at Site 1281 feet	Anticipated Maximum TVD 5457 feet	Well Type GS	Offset distances referenced to NE corner of map section. South 1331 feet West 10641 feet		

This permit covering the well operator and well location shown above is evidence of permission granted to conduct activities in accordance with the Oil and Gas Act and the Oil and Gas Conservation Law, if the well is subject to that act and any rules and regulations promulgated thereunder, subject to the conditions contained herein and in accordance with the application submitted for this permit. This permit does not convey any property rights.

This permit and the permittee's authority to conduct the activities authorized by this permit are conditioned upon operator's compliance with applicable law and regulations.

Notification must be given to the district oil and gas inspector, the surface landowner and political subdivision of the date well drilling will begin at least 24 hours prior to commencement of drilling activities.

The permittee hereby authorizes and consents to allow, without delay, employees or agents of the Department to have access to and to inspect all areas upon presentation of appropriate credentials, without advance notice or a search warrant. This includes any property, facility, operation or activity governed by the Oil and Gas Act, the Oil and Gas Conservation Law, the Coal and Gas Resource Coordination Act and other statutes applicable to oil and gas activities administered by the Department. The authorization and consent shall include consent to the Department to collect samples of wastewaters or gases, to take photographs, to perform measurements, surveys, and other tests, to inspect any monitoring equipment, to inspect the methods of operation and disposal, and to inspect and copy documents required by the Department to be maintained. The authorization and consent includes consent to the Department to examine books, papers, and records pertinent to any matter under investigation pursuant to the Oil and Gas Act or pertinent to a determination of whether the operator is in compliance with the above referenced statutes. This condition in no way limits any other powers granted to the Department under the Oil and Gas Act and other statutes, rules and regulations applicable to these activities as administered by the Department.

This permit does not relieve the operator from the obligation to comply with the Clean Streams Law and all statutes, rules and regulations administered by the Department.

Special Permit Conditions:

The permittee shall not withdraw or use water from water sources within the Commonwealth of Pennsylvania, for well fracing activities, unless the permittee does so in accordance with a Water Management Plan approved by the Department.

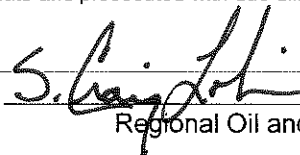
Permittee shall obtain a permit or Environmental Assessment approval from the Department prior to the construction of any dam, reservoir, water obstruction, and/or encroachment for which a permit or Environmental Assessment approval is required by 25 Pa. Code Chapter 105. Any dam embankment including centralized dam embankments utilized to impound freshwater or frac water associated with well fracing not requiring a permit pursuant to 25 Pa. Code Chapter 105 will be constructed in accordance with requirements of 25 Pa. Code §§ 78.56-78.63 and Department guidelines 5500-PM-OG0085 entitled, Design, construction and maintenance standards for dam embankments associated with impoundments for oil and gas wells.

Prior to fracturing the well, as part of its Preparedness, Prevention and Contingency Plan the permittee shall implement a Control and Disposal Plan for the control and disposal of fluids and residual wastes in accordance with 25 Pa. Code § 78.55. The Control and Disposal Plan shall identify the control and disposal methods and practices utilized to prevent pollutants from directly or indirectly reaching waters of the Commonwealth during the impoundment, production, processing and transportation of pollutants, including identification of the permitted processing or disposal facilities where residual wastes will be processed or disposed, in accordance with 25 Pa. Code §§ 78.55 and 91.34.

Prior to transport of the residual wastewater off site, chemical analysis and characterization of the waste shall be conducted and provided to the processing or disposal facility intended for acceptance of the waste in accordance with 25 Pa. Code § 287.54.

The operator shall run a complete angular deviation survey of the intentionally deviated well. The deviation survey is to be obtained by a responsible well surveying company and shall be filed with the Department within thirty (30) days after drilling is completed along with other regularly required reports. The deviation report shall include a well location plat and vertical section of the borehole as drilled.

This permit expires **04/24/2016** unless drilling is commenced on or before that date and prosecuted with due diligence.



Regional Oil and Gas Program Manager

DAVID ADAMS

121 N MILL STREET
NEW CASTLE, PA 16101

724-656-3271

Oil & Gas Inspector

Address

Phone Number



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS MANAGEMENT

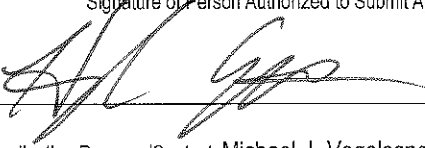
PERMIT APPLICATION TO DRILL AND OPERATE AN UNCONVENTIONAL WELL

Notes S Coal		DEP USE ONLY	
OGO # 39487	Client Id	Objection Date - Do not issue before: 3-12-15	API #s37- -019-22433
Bond # 13392	INV: 3-17-15 KHS SEP 4/11/15	Date Approved: 4/20/15 BM	Watershed Name: Designation: ☐ HQ ☐ EV
Special Cond. E	APR # 8166406	Auth Id 1865660	Site Id 796600
PNDI 1-15-15	PF Id 784330	SF Id 1157341	

Please read instructions before you begin filling in this form.

WELL INFORMATION											
Well Operator EM Energy Pennsylvania, LLC			DEP ID# 298117		Well API # (if available) 37- - - -		Well Farm Name Polaris		Well # 9-BH		
Address 1800 Main Street, Suite 220			LAT 40°57' 16.84"		NAD 83		Project Number		Serial #		
City Canonsburg			State PA		Zip 15317		Municipality Name/ City, Borough, Township Oakland Township		County Butler		
Phone (412) 564-1300			Fax 724-916-4769		Email HCaperton@edgemarcenergy.com		USGS 7.5 min. quadrangle map East Butler		Section 4		
☐ Check if this is a new address			24/7 Emergency Phone contact number (412) 564-1300		911 address of well site (if available) 520 Pine Tract Rd. West Sunbury, PA 16061						
Freshwater Impoundment Name/ Identification N/A		Centralized Impoundment Name/ Identification N/A		Well Pad (cluster) Name/Identification Polaris		Borrow Area Name/Identification N/A					
Surface Elev 1281ft		Deepest Formation to be penetrated: Burkett		Anticipated TVD 5457ft		PERMIT TYPE Check applicable. Application is to: ☒ Drill a new well ☐ Re-permit expired permit ☐ Deepen well ☐ Redrill wellbore ☐ Alter well ☐ Other (specify)		TYPE OF WELL Check applicable. ☒ Gas ☐ Oil ☐ Comb. (gas & oil/condensate) ☐ Other (specify)		APPLICATION FEE Check applicable. ☒ Marcellus I ☒ Unconventional Total Application Fee \$5250.00 #7523	
Target Formation(s) proposed for production Burkett		Anticipated Target Top/Bottom TVD 5270ft 5320ft				Number of wellbore laterals proposed under this application 1		Total feet of wellbore to be drilled under this application 13590 Ft.		If applying for a permit to rework an existing well not registered or permitted, check this box ☐ and enter date drilled, if known: (see instructions)	
PNDI Attached: ☒ Any threatened or endangered "hit" must include a copy of the clearance letter from the applicable agency(ies).						Configuration ☐ Vertical ☒ Horizontal ☐ Deviated ☐ Multiple laterals		Bond Agreement Id 13392			
Application submitted as: Coal well: ☒ Attach Coal Module CBM well ☐ Attach Coal Module Non coal well ☐ Attach justification.						Approved 12/18/2013					
COORDINATION WITH REGULATIONS AND OTHER PERMITS								Yes		No	
1. Will the well be subject to the Oil and Gas Conservation Law? If "No," go to 2.								☐		☒	
a. If "Yes" to #1, is the well at least 330 feet from outside lease or unit boundary?								☐		☐	
b. Does the location fall within an area covered by a spacing order?								☐		☒	
c. If the well will be multilateral, identify the wellbores on the sketch on page 3 of the plat that will be completed as conservation and non-conservation.											
2. 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 7½' topographic quadrangle map or wetland greater than one acre in size or in a wetland?								☐		☒	
If yes, is a waiver request (form 5500-FM-OG0057) and site-specific E&S control plan attached?								☐		☐	

4-30-15

3.	Will the vertical wellbore penetrate or be within 3,000 feet of an active gas storage reservoir boundary?	☐	☒
a.	If Yes, print the names of: Storage Field: Operator:		
4.	Is the proposed well location within the permitted area of a landfill ?	☐	☒
5.	Will the vertical wellbore of the unconventional well be drilled within 500 feet from any existing building or an existing water supply?	☐	☒
a.	If "Yes," is written consent from the owner attached?	☐	☐
b.	If written consent is not attached, is a variance request (form 8000-FM-OOGM0058) attached?	☐	☐
5.1.	Will the vertical wellbore 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 a water purveyor?	☐	☒
a.	If "Yes," is written consent from the owner attached?	☐	☐
b.	If written consent is not attached, is a variance request (form 8000-FM-OOGM0058) attached?	☐	☐
6.	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? If yes, attach a completed copy of the form and clearance letters from applicable agencies.	☒	☐
7.	Will any portion of the well site be in a Special Protection High Quality ☐ (HQ) or Exceptional Value ☐ (EV) watershed?	☐	☒
	Provide name of special protection watershed.		
8.	Is this well part of a development which requires an Earth Disturbance Permit for Oil and Gas Activities disturbing more than 5 acres? If yes, list the number of the ESCGP approval if the permit has been issued.	☒	☐
	Not Yet Issued		
9.	Is waste, including drill cuttings, from the drilling of this well to be disposed of on this well site?	☐	☒
10.	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.	☐	☒
a.	If yes, is a waiver request attached that will protect the Waters of the Commonwealth?	☐	☐
11.	Is the well to be located within a H ₂ S area pursuant to §78.77a?	☐	☒
12.	Attach a current Ownership & Control form 8000-FM-OOGM0118 Approved 12/03/2012		
Signature of Applicant		The person signing this form attests that they have the authority to submit this application on behalf of the applicant, and that the information, including all related submissions, is true and accurate to the best of their knowledge.	
Signature of Person Authorized to Submit Application		(Print or Type)	Name of Signer: <i>Hugh Caperton</i>
			Title: <i>Asset Development Director</i>
Application Preparer/Contact: Michael J. Vogelsang		Date: <i>March 4, 2015</i>	
		Phone: 724-485-2772	

**PERMIT APPLICATION TO DRILL AND OPERATE
AN UNCONVENTIONAL WELL**
Record of Notification

Farm Name - Well # Polaris-9-BH	DEP ID# 298117
Applicant Name EM Energy Pennsylvania, LLC	
DEP USE ONLY APS #	

		Surface Landowner	Gas Storage Operator	Surface Landowners & Water Purveyors with water supplies within 3000' Municipalities	Notification		
					Noted the means and attach proof.	Address Affidavit	Written Consent
					Certified Mail Dates	Return Receipt	
List the following: surface landowner, surface landowners and water purveyors with water supplies within 3000 feet; municipality where the well will be drilled; adjacent municipality; municipalities within 3,000 feet of the vertical well bore; gas storage operator if within 3000 feet. Mark the boxes, "X," which show the parties' interests. Use additional forms if you need more space. You are required to notify each of these parties. Notification: Signature below name indicates the party's acknowledgement of receipt of the well location plat and serves as proof of notification							
Print Name: Mark A & Beth A McGarrath	Address: 541 Pine Tract Road, West Sunbury, PA 16061			X	2/27/2015	3/2/2015	
Signature							
Print Name: Leonard A & Candice L Scholl	Address: 434 Clark Road West Sunbury, PA 16061			X	2/27/2015	3/3/2015	
Signature							
Print Name: Ronald E & Rhonda F Hetrick	Address: 433 Clark Road West Sunbury, PA 16061			X	2/27/2015	3/2/2015	
Signature							
Print Name: James R Jr. & Bonita A Nicodemus	Address: 409 Clark Road West Sunbury, PA 16061			X	2/27/2015	3/12/2015	
Signature							
Print Name: Norma B Vidic	Address: 120 Mahood Road West Sunbury, PA 16061			X	2/27/2015	3/2/2015	
Signature							

Record of Written Consent

Written Consent: Signature below indicates the party's approval of the well location, or indicates written consent and waives the 15-day objection period where applicable. Check applicable box		Surface Owner		Water Well within 500 feet	Building within 500 feet
Print and Sign Name:	Address:	Date:	☐	☐	☐
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐



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WELL LOCATION PLAT

PAGE 1 Surface Location

DEP USE ONLY	DEP Application Tracking #	G: 56P 41115
	Permit #	019-22433
	Project #	

DENOTES LOCATION OF TOP OF WELL ON TOPO MAP.

WELL IS LOCATED ON TOPO MAP 1331 FEET SOUTH OF LATITUDE 40°57'30"

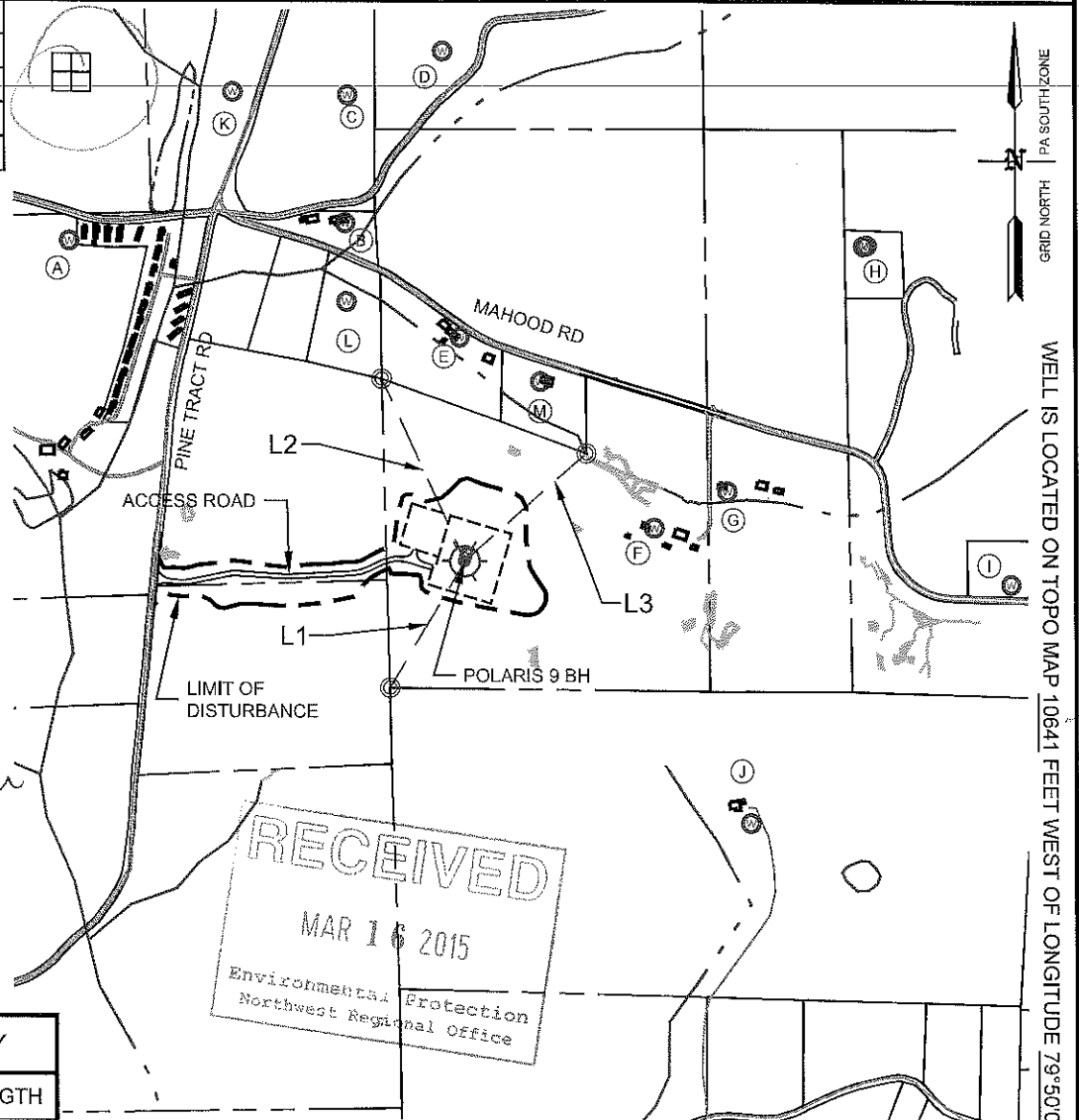
SURFACE HOLE LOCATION

LATITUDE: NORTH (NAD 83)

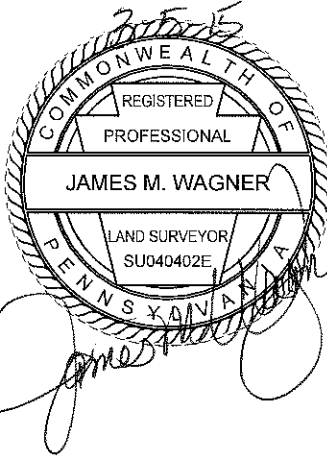
40°57'46.84"

LONGITUDE: WEST (NAD 83)

79°52'18.71"

GRID NORTH
PA SOUTH ZONE

WELL IS LOCATED ON TOPO MAP 10641 FEET WEST OF LONGITUDE 79°50'00"



GAS TRACT BOUNDARY

LINE #	DIRECTION	LENGTH
L1	S31° 00' 19.97"W	777.26
L2	N24° 42' 25.10"W	1052.11
L3	N48° 29' 24.78"E	855.98

THIS PLAN IS FOR WELL LOCATION PURPOSES AND IS NOT A BOUNDARY RETRACEMENT SURVEY. TIES TO PINS OR PIPES FOUND ARE FOR GAS WELL RE-LOCATION ONLY.

PARCEL DATA AND TOPOGRAPHIC FEATURES TAKEN FROM COUNTY TAX DATA, AVAILABLE GIS AND PASDA IMAGERY. PROPOSED WELL REFERENCE TIES ARE FROM ACTUAL FIELD SURVEY.

LEGEND

- PROPOSED GAS WELL
- EXISTING IRON PIN (FND)
- EXISTING WATER WELL
- PARCEL DESIGNATION (SEE SHEET 2)
- UNIT BOUNDARY TIE LINE
- PARCEL LINES
- STREAM OR WATERCOURSE

Applicant / Well Operator Name: EM ENERGY PENNSYLVANIA, LLC		DEP ID #: 298117	Well (Farm) Name: POLARIS		Well #: 9 BH	Serial #:
Address: 1800 MAIN STREET, SUITE 200, CANONSBURG, PA 15317			County: BUTLER	Municipality: OAKLAND TWP.	Well Type: GAS	
911 address of well site: 520 PINE TRACT RD, WEST SUNBURY, PA 16061			USGS 7½' Quadrangle Map Name: EAST BUTLER 1107	Map Section: 4	Surface Elevation: 1281 FT.	
Surveyor or Engineer: ARM GROUP, INC.	Phone #: (814) 272-0455	Dwg #: POLARIS 09 BH.dwg	Date: FEB. 2015	Scale: 1" = 1000'	Tract Acreage: ±643.8 AC.	
Lat. & Long Metadata Method: GPS	Accuracy: ±3 FT	Datum: NAD 83	Elevation Metadata Method: PA LIDAR	Accuracy: ±5 FT	Datum: NAVD 88	Survey Date: FEB. 2015

WELL LOCATION PLAT

Page 2 Notifications

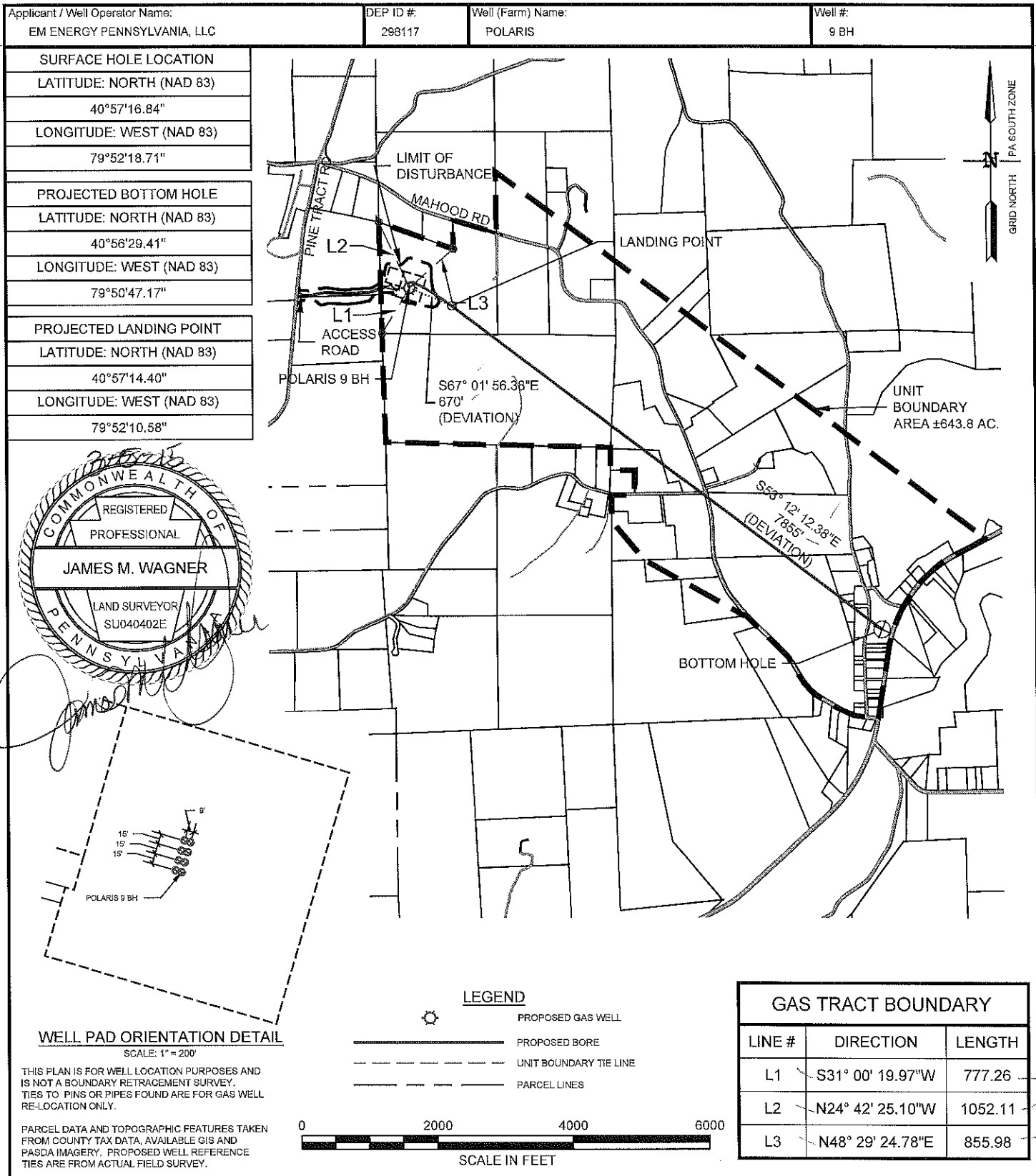
DEP Statewide toll-free phone number for reporting cases of water contamination which may be associated with development of oil and gas resources is 1-866-255-5158.

Applicant / Well Operator Name: EM ENERGY PENNSYLVANIA, LLC		DEP ID #: 298117	Well (Farm) Name: POLARIS		Well #: 9 BH	Serial #:
Surface Landowner / Lessor: MABOLD THOMAS J & KRISTINE M			Angle & Course of Deviation (Drilling): DEVIATED-SEE ATTACHMENT S67°01'56.38"E 670' S53°12'12.38"E 7855'		Anticipated True Vertical Depth Feet (TVD): 5457'	Anticipated Total Measured Depth Feet (TMD): 13590'
Target Formation(s): BURKETT		Date: FEB. 2015	Deepest Formation to be penetrated: BURKETT		Number of laterals: 1	Total footage to be drilled all laterals: 13590'
Surface Owner/Water Purveyor w/Water Supply within 1000/3000'			Latitude Longitude of Water Supply			Accuracy ±30'
(A)	MCGARRAH MARK A & BETH A 541 PINE TRACT RD, WEST SUNBURY, PA 16061	N51°15'43.77"W 2679.12'	Latitude: Longitude:	N40°57'32.92" W79°52'46.57"		
(B)	SCHOLL LEONARD A & CANDICE L 434 CLARK RD, WEST SUNBURY, PA 16061	N19°20'30.21"W 1877.67'	Latitude: Longitude:	N40°57'34.21" W79°52'27.47"		
(C)	HETRICK RONALD E & RHONDA F 433 CLARK RD, WEST SUNBURY, PA 16061	N13°58'45.59"W 2519.45'	Latitude: Longitude:	N40°57'40.87" W79°52'27.51"		
(D)	NICODEMUS JAMES R JR & BONITA A 409 CLARK RD, WEST SUNBURY, PA 16061	N02°17'26.93"W 2678.63'	Latitude: Longitude:	N40°57'43.27" W79°52'21.05"		
(E)	VIDIC NORMA B 120 MAHOOD RD, WEST SUNBURY, PA 16061	N00°51'55.54"W 1173.01'	Latitude: Longitude:	N40°57'27.43" W79°52'20.49"		
(F)	MABOLD THOMAS J & KRISTINE M 1326 MAHOOD RD, WEST SUNBURY, PA 16061	N80°15'13.58"E 1020.23'	Latitude: Longitude:	N40°57'18.80" W79°52'05.77"		
(G)	BARTON ARTHUR J & ROXANNE 1350 MAHOOD RD, WEST SUNBURY, PA 16061	N75°18'09.90"E 1442.83'	Latitude: Longitude:	N40°57'20.81" W79°52'00.75"		
(H)	BROWN FRANK M JR 114 BROWN LN, WEST SUNBURY, PA 16061	N52°02'15.95"E 2695.02'	Latitude: Longitude:	N40°57'33.74" W79°51'51.65"		
(I)	BROWN DEAN V 1373 MAHOOD RD, WEST SUNBURY, PA 16061	S87°42'27.87"E 2901.17'	Latitude: Longitude:	N40°57'16.40" W79°51'41.01"		
(J)	PENNINGTON AARON S 159 WHITMIRE RD, WEST SUNBURY, PA 16061	S47°50'53.83"E 2049.39'	Latitude: Longitude:	N40°57'03.63" W79°51'58.58"		
(K)	BURKETT MARGARET A 1146 MAHOOD RD, WEST SUNBURY, PA 16061	N26°21'47.79"E 2748.58'	Latitude: Longitude:	N40°57'40.90" W79°52'35.49"		
(L)	KUJBUS NICHOLAS J IV & MICHELLE 1210 MAHOOD RD, WEST SUNBURY, PA 16061	N24°21'53.53"W 1491.31'	Latitude: Longitude:	N40°57'30.13" W79°52'27.26"		
(M)	VIDIC CATHLEEN L 1230 MAHOOD RD, WEST SUNBURY, PA 16061	N23°29'50.44"E 1026.65'	Latitude: Longitude:	N40°57'26.26" W79°52'13.78"		
			Latitude: Longitude:			
			Latitude: Longitude:			
			Latitude: Longitude:			
			Latitude: Longitude:			
			Latitude: Longitude:			
Municipality where the well will be drilled, adjacent to the well, or within 3000 feet:						
CONCORD TWP						
OAKLAND TWP						
CLAY TWP						
CENTER TWP						
FAIRVIEW TWP			Coal Related Parties			
DONEGAL TWP			MABOLD THOMAS J & KRISTINE M 1326 MAHOOD RD, WEST SUNBURY, PA 16061			
CLEARFIELD TWP						
SUMMIT TWP						
BUTLER TWP						

WELL LOCATION PLAT

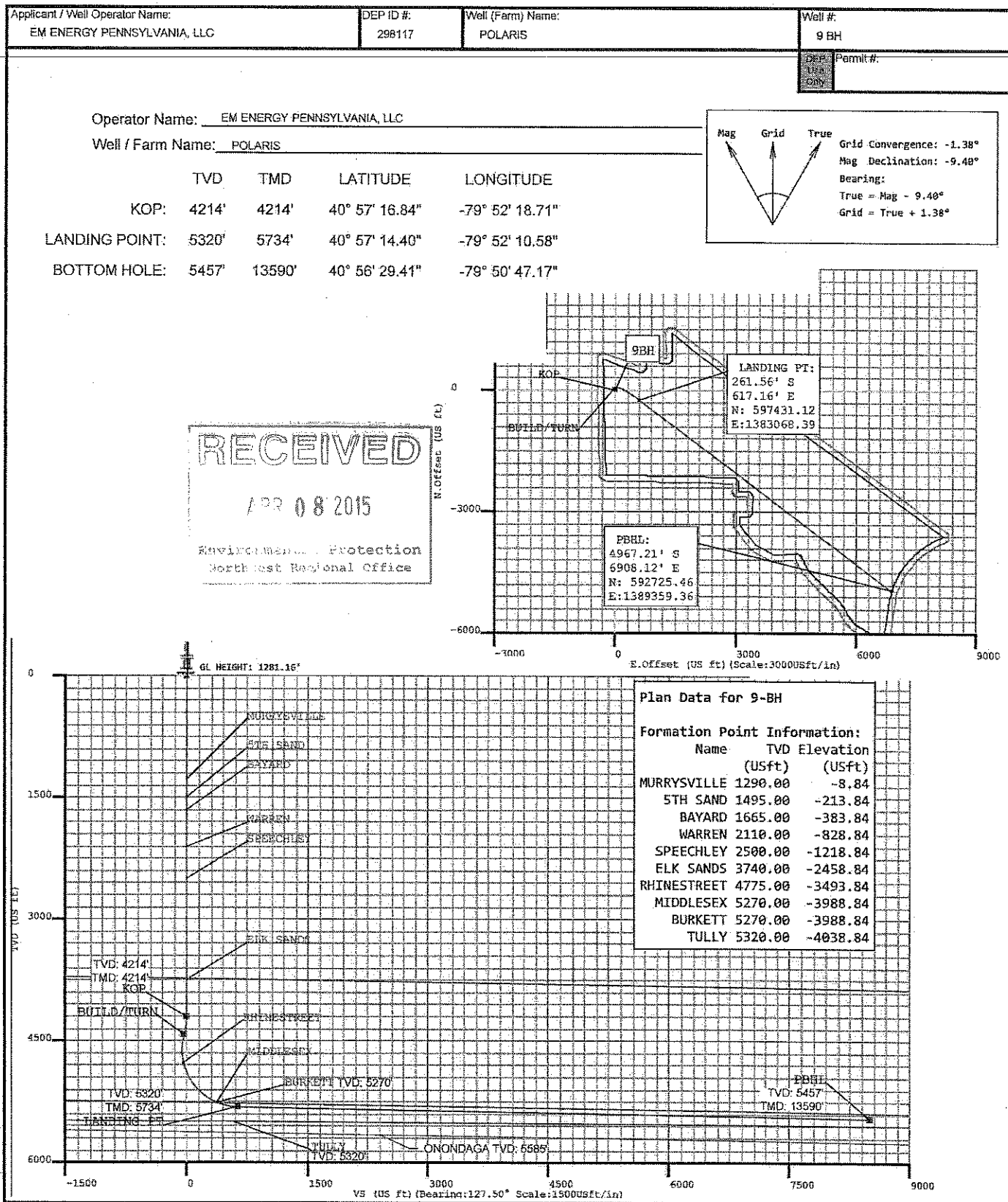
Page 3 Plan View of Deviated Well Bore

If well has a lateral other than vertical show the bottom hole location on the plat drawing as $\otimes$ and include the Coordinates in the provided section at the bottom of the drawing area. The top hole and bottom hole locations are to be connected by a bolded line this is to depict the proposed courses of the actual wellbore to be drilled.



WELL LOCATION PLAT

Page 4 Cross Section





**PERMIT APPLICATION TO DRILL AND OPERATE
AN UNCONVENTIONAL WELL
Record of Notification**

Farm Name - Well # Polaris 9-BH	DEP ID# 298117
Applicant Name EM Energy Pennsylvania LLC	
DEP USE ONLY APS #	

List the following: surface landowner, surface landowners and water purveyors with water supplies within 3000 feet; municipality where the well will be drilled; adjacent municipality; municipalities within 3,000 feet of the vertical well bore; gas storage operator if within 3000 feet. Mark the boxes "X" which show the parties' interests. Use additional forms if you need more space. You are required to notify each of these parties. Notification: Signature below name indicates the party's acknowledgement of receipt of the well location plat and serves as proof of notification		Surface Landowner	Gas Storage Operator	Surface Landowners & Water Purveyors <3000'	Municipalities	Notification		
						Note the means and attach proof.		Written Consent
Print Name: Thomas J & Kristine M Mabold	Address: 1326 Mahood Road West Sunbury, PA 16061	X				Certified Mail Dates	Return Receipt	
Signature							2/27/2015	3/3/2015
Print Name: Arthur J & Roxanne Barton	Address: 1350 Mahood Road West Sunbury, PA 16061			X			2/27/2015	3/2/2015
Signature								
Print Name: Frank M Jr Brown	Address: 114 Brown Lane West Sunbury, PA 16061			X			2/27/2015	3/2/2015
Signature								
Print Name: Dean V Brown	Address: 1373 Mahood Road West Sunbury, PA 16061			X			2/27/2015	3/3/2015
Signature								
Print Name: Aaron S Pennington	Address: 159 Whitmire Road West Sunbury, PA 16061			X			2/27/2015	3/2/2015
Signature								

Record of Written Consent

Written Consent: Signature below indicates the party's approval of the well location, or indicates written consent and waives the 15-day objection period where applicable. Check applicable box			
		Surface Owner	
Print and Sign Name:	Address:	Date:	Water Well within 500 feet
			Building within 500 feet
Print and Sign Name:	Address:	Date:	
Print and Sign Name:	Address:	Date:	
Print and Sign Name:	Address:	Date:	
Print and Sign Name:	Address:	Date:	
Print and Sign Name:	Address:	Date:	

PERMIT APPLICATION TO DRILL AND OPERATE AN UNCONVENTIONAL WELL Record of Notification

Farm Name - Well #	Polaris-9-BH	DEP ID#	298117
Applicant Name	EM Energy Pennsylvania LLC		
DEP USE ONLY	APS #		

		Surface Landowner	Gas Storage Operator	Surface Landowners & Water Purveyors with water supplies <3000'	Municipalities	Notification		
						Certified Mail Dates	Note the means and attach proof.	Written Consent
		Sent	Return Receipt	Address Affidavit				
Print Name: Margaret A Burkett	Address: 1146 Mahood Road West Sunbury, PA 16061							
Signature								
Print Name: Nicholas J IV & Michelle Kujbus	Address: 1210 Mahood Road West Sunbury, PA 16061							
Signature								
Print Name: Cathleen L Vidic	Address: 1230 Mahood Road West Sunbury, PA 16061							
Signature								
Print Name: Oakland Township	Address: 565 Chicora Road Butler, PA 16001				X	2/27/2015	3/10/2015	
Signature								
Print Name: Center Township	Address: 419 Sunset Drive Butler, PA 16001				X	2/27/2015	3/2/2015	
Signature								

Record of Written Consent

Written Consent: Signature below indicates the party's approval of the well location, or indicates written consent and waives the 15-day objection period where applicable.		Surface Owner		Water Well within 500 feet		Building within 500 feet	
Check applicable box							
Print and Sign Name:	Address:	Date:	☐	☐	☐	☐	☐
Print and Sign Name:	Address:	Date:	☐	☐	☐	☐	☐
Print and Sign Name:	Address:	Date:	☐	☐	☐	☐	☐
Print and Sign Name:	Address:	Date:	☐	☐	☐	☐	☐
Print and Sign Name:	Address:	Date:	☐	☐	☐	☐	☐



PERMIT APPLICATION TO DRILL AND OPERATE AN UNCONVENTIONAL WELL Record of Notification

Farm Name - Well #	Polaris-9-BH	DEP ID#	298117
Applicant Name	EM Energy Pennsylvania LLC	DEP USE ONLY	APS #

List the following: surface landowner, surface landowners and water purveyors with water supplies within 3000 feet; municipality where the well will be drilled; adjacent municipality; municipalities within 3,000 feet of the vertical well bore; gas storage operator if within 3000 feet. Mark the boxes "X" which show the parties' interests. Use additional forms if you need more space. You are required to notify each of these parties. Notification: Signature below name indicates the party's acknowledgement of receipt of the well location plat and serves as proof of notification		Surface Landowner	Gas Storage Operator	Surface Landowners & Water Purveyors with water supplies <3000'	Municipalities	Notification		
						Note the means and attach proof.		Written Consent
Print Name: Clay Township	Address: 1115 Euclid School Road Butler, PA 16001					Certified Mail Dates	Return Receipt	
Signature					X	2/27/2015	3/2/2015	
Print Name: Concord Township	Address: 167 Manuel Road West Sunbury, PA 16061				X	2/27/2015	3/2/2015	
Signature								
Print Name: Butler Township	Address: 290 South Duffy Road Butler, PA 16001				X	2/27/2015	3/2/2015	
Signature								
Print Name: Clearfield Township	Address: P.O. Box 5 Fenelton, PA 16034				X	2/27/2015	3/4/2015	
Signature								
Print Name: Fairview Township	Address: 1571 Hooker Road Karns City, PA 16041				X	2/27/2015	3/2/2015	
Signature								

Record of Written Consent

Written Consent: Signature below indicates the party's approval of the well location, or indicates written consent and waives the 15-day objection period where applicable. Check applicable box			
Surface Owner		Building within 500 feet	
Print and Sign Name:	Address: ☐ Date:	Water Well within 500 feet	Building within 500 feet
		☐	☐
Print and Sign Name:	Address: ☐ Date:		
		☐	☐
Print and Sign Name:	Address: ☐ Date:		
		☐	☐
Print and Sign Name:	Address: ☐ Date:		
		☐	☐
Print and Sign Name:	Address: ☐ Date:		
		☐	☐



PERMIT APPLICATION TO DRILL AND OPERATE AN UNCONVENTIONAL WELL Record of Notification

Farm Name - Well #	Polaris-9-BH	DEP ID#	298117
Applicant Name	EM Energy Pennsylvania LLC	DEP USE ONLY	
APS #			

List the following: surface landowner; surface landowners with water supplies within 3000 feet; municipality where the well will be drilled; adjacent municipality; municipalities within 3,000 feet of the vertical well bore; gas storage operator if within 3000 feet. Mark the boxes "X" which show the parties' interests. Use additional forms if you need more space. You are required to notify each of these parties. Notification: Signature below name indicates the party's acknowledgement of receipt of the well location plat and serves as proof of notification		Surface Landowner	Gas Storage Operator	Surface Landowners & Water Purveyors with water supplies <3000'	Municipalities	Notification			
						Certified Mail Dates	Return Receipt	Address Affidavit	
Print Name: Donegal Township	Address: P.O. Box 413 Chicora, PA 16025				X	Sent	2/27/2015	3/3/2015	Written Consent
Signature									
Print Name: Summit Township	Address: 502 Bonniebrook Road Butler, PA 16002				X	Sent	2/27/2015	3/2/2015	Written Consent
Signature									
Print Name:	Address:								
Signature									
Print Name:	Address:								
Signature									
Print Name:	Address:								
Signature									

Record of Written Consent

Written Consent: Signature below indicates the party's approval of the well location, or indicates written consent and waives the 15-day objection period where applicable. Check applicable box							
		Surface Owner		Water Well within 500 feet		Building within 500 feet	
Print and Sign Name:	Address:	Date:	☐	☐	☐	☐	☐
Print and Sign Name:	Address:	Date:	☐	☐	☐	☐	☐
Print and Sign Name:	Address:	Date:	☐	☐	☐	☐	☐
Print and Sign Name:	Address:	Date:	☐	☐	☐	☐	☐
Print and Sign Name:	Address:	Date:	☐	☐	☐	☐	☐