



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

**WELL PERMIT
MODIFICATION**

DEP USE ONLY	
Permittee's eFACTS ID 313418	Auth ID 1157697
Watershed Name Kaiser Hallow	Quality EV

Permittee INFLECTION ENERGY (PA) LLC		OGO.# OGO-68657	Permit Number 37-081-21336-00-01		Date Issued 02/22/2017
Address 49 EAST 4TH ST		Farm Name & Well Number ALLEGHENY RIDGE WEST HILLEGAS 2			Well Serial #
STE 101		Municipality Upper Fairfield Twp		County Lycoming	
WILLIAMSPORT, PA 17701		7 1/2' Quadrangle Name Huntersville			Map Section # 4
Phone (303) 531-2300	Project #		Latitude 41-19-34.1400	Longitude -76-52-26.9800	
Surf Elev at Site 948 feet	Anticipated Maximum TVD 9632 feet	Well Type GS	Offset distances referenced to NE corner of map section. South 2617 feet West 11213 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 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.

•The earth disturbance activity at this site, related to this permit, may only be conducted under an approved ESCGP-2 permit.

•The permittee shall not withdraw or use water from water sources within the Commonwealth of Pennsylvania, to hydraulically fracture an unconventional formation, unless the permittee does so in accordance with a Water Management Plan approved by the Department.

•Any dam embankment utilized to impound freshwater or other fluids approved by the Department associated with drilling and hydraulic fracturing, not requiring a permit pursuant to 25 Pa. Code Chapter 105, will be constructed in accordance with Department guidelines 5500-PM-OG0085 entitled, Design, construction and maintenance standards for dam embankments associated with impoundments for oil and gas wells.

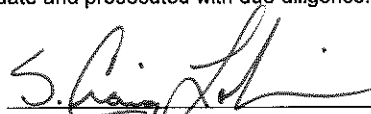
•Provide the results of Formation Integrity Testing (FIT) conducted at the intermediate casing shoe for review and approval by the Department. If such data is not available or otherwise cannot be provided for this well, submit a plan for testing the intermediate casing shoe for review and approval by the Department prior to drilling deeper. If the FIT results indicate adequate cement bond and appropriate fracture gradient for continued drilling operations, drilling deeper may commence in accordance with applicable law and regulations. If the FIT results indicate inadequate cement bond or fracture gradient, provide a plan to mitigate the issue(s) for review and approval by the Department. All necessary remedial actions or other measures approved by the Department shall be completed to ensure adequate cement bond and fracture gradient at the intermediate casing shoe prior to drilling deeper at this well.

•A detailed casing and cementing plan for this well shall be submitted to the Department at least 30 days prior to commencing drilling operations. The plan shall include a provision to leave top of cement below the intermediate casing shoe while cementing the production casing string in place.

•Vents shall be installed at all annular spaces for monitoring purposes. At least one 72-hour Pressure Build-up Test shall be conducted at all annulus vents after drilling is completed and prior to stimulation of the well. A confirmatory 72-hour Pressure Build-up Test shall be conducted at all annulus vents following stimulation of the well to ensure well integrity.

•Unless otherwise directed by the Department, all annulus vents shall remain open during the production life of the well.

This permit expires 02/22/2018 unless drilling is commenced on or before that date and prosecuted with due diligence.



Regional Oil and Gas Program Manager

REBECCA RENNER

208 WEST THIRD STREET SUITE 101
WILLIAMSPORT, PA 17701

570-321-6516

Oil & Gas Inspector

Address

Phone Number



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

Speed 11-2-13
MOD

XPERMIT APPLICATION TO DRILL AND OPERATE AN UNCONVENTIONAL WELL

Notes MC		DEP USE ONLY	
OGO No. 68657	Client ID 313418	Objection Date - Do not issue before: 10/24/16	API #s37- 081-21336-00-01
Bond No. 13934	INV. C: 11/01/16 G: SGP 11/10/16	Date Approved: 2/10/16	and - - - - - Watershed Name: Designation: ☐ HQ ☒ EV KAISER HOLLOW
APS No. 926560	Auth ID 1157697	Special Cond. DEV SURVEY, NEED ESCGP, SEE ATTACHED FOR CASING SP. COND.	PF Id 769121
Site Id 775481		SF Id 1220693-00-01	

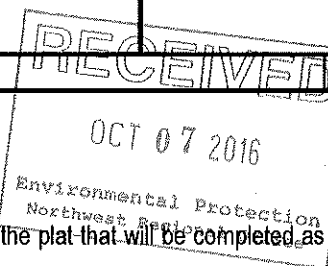
Please read instructions before you begin filling in this form.

WELL INFORMATION

Well Operator Inflection Energy (PA) LLC		DEP ID# 313418	Well API No. (if available) 37-081-21336-00	Well Farm Name Hillegas	Well # 2
Address 49 East 4th Street, Suite 101		LAT 41°19' 34.14"	LONG 76°52' 26.98"	NAD 83	Project Number N/A
City Williamsport	State PA	Zip Code 17701	Municipality Name/ City, Borough, Township Upper Fairfield Township	County Lycoming	Serial # N/A
Phone No. (303) 531-2300	Fax No. (303) 531-2301	Email donald.stevenson@inflectionenergy.co	USGS 7.5 min. quadrangle map Huntersville PA		Section 4
☐ Check if this is a new address	24/7 Emergency Phone Contact No.: (800)641-1664	911 address of well site (if available) 2098 Kaiser Hollow Rd, Montoursville	ESGP Permit No.: ESG13-081-0049		
Freshwater Impoundment Name/ Identification N/A	Centralized Impoundment Name/ Identification N/A	Well Pad (cluster) Name/Identification Hillegas Well Site	Borrow Area Name/Identification N/A		
Surface Elev 948.0'	Deepest Formation to be penetrated: Marcellus	Anticipated TVD 8,935.48	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. ☒ Unconventional ☐ Vertical ☐ Nonvertical Total Application Fee \$ 5,250
Target Formation(s) proposed for production Marcellus		Anticipated Target Top/Bottom TVD 8,300 - 9,000 8,200 8,500	Configuration ☐ Vertical ☒ Horizontal ☐ Deviated ☐ Multiple laterals		
Number of wellbore laterals proposed under this application 1		Total feet of wellbore to be drilled under this application 12850 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).					
Application submitted as: Coal well: ☐ Attach Coal Module CBM well ☐ Attach Coal Module Non coal well ☒ Attach justification.					

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 the disturbed area 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?	☒	☐
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.	☐	☒
If yes, are the following attached: a site-specific E&S control plan (unless an ESCGP has been submitted), Pollution Prevention Control Plan, Portions of the Well Site Emergency Response Plan, and Site Containment Plan?	☒	☐



WELL
SPUD
11/2/13
12/20/14

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 <u>Loyalsock Creek (EV) KAISER HOLLOW</u> <i>JP 11/20/16</i>		
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. ESG13-081-0049	☒	☐
9. Is waste, including drill cuttings, from the drilling of this well to be disposed of on this well site?	☐	☒
10. Is the well to be located within a H ₂ S area pursuant to §78.77a?	☐	☒
11. Attach a current Ownership & Control form 8000-FM-OOGM0118		
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: THOMAS D. GILLESPIE Title: Director of Regulatory & HS&E Date 9-20-2016
Application Preparer/Contact: DONALD STEVENSON		Phone: 303-531-2300



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

WELL LOCATION PLAT

PAGE 1 Surface Location

DEP	Auth ID #:	11/10/14
USE	Permit #: 081-21336	G: 568
ONLY	Project #:	C:

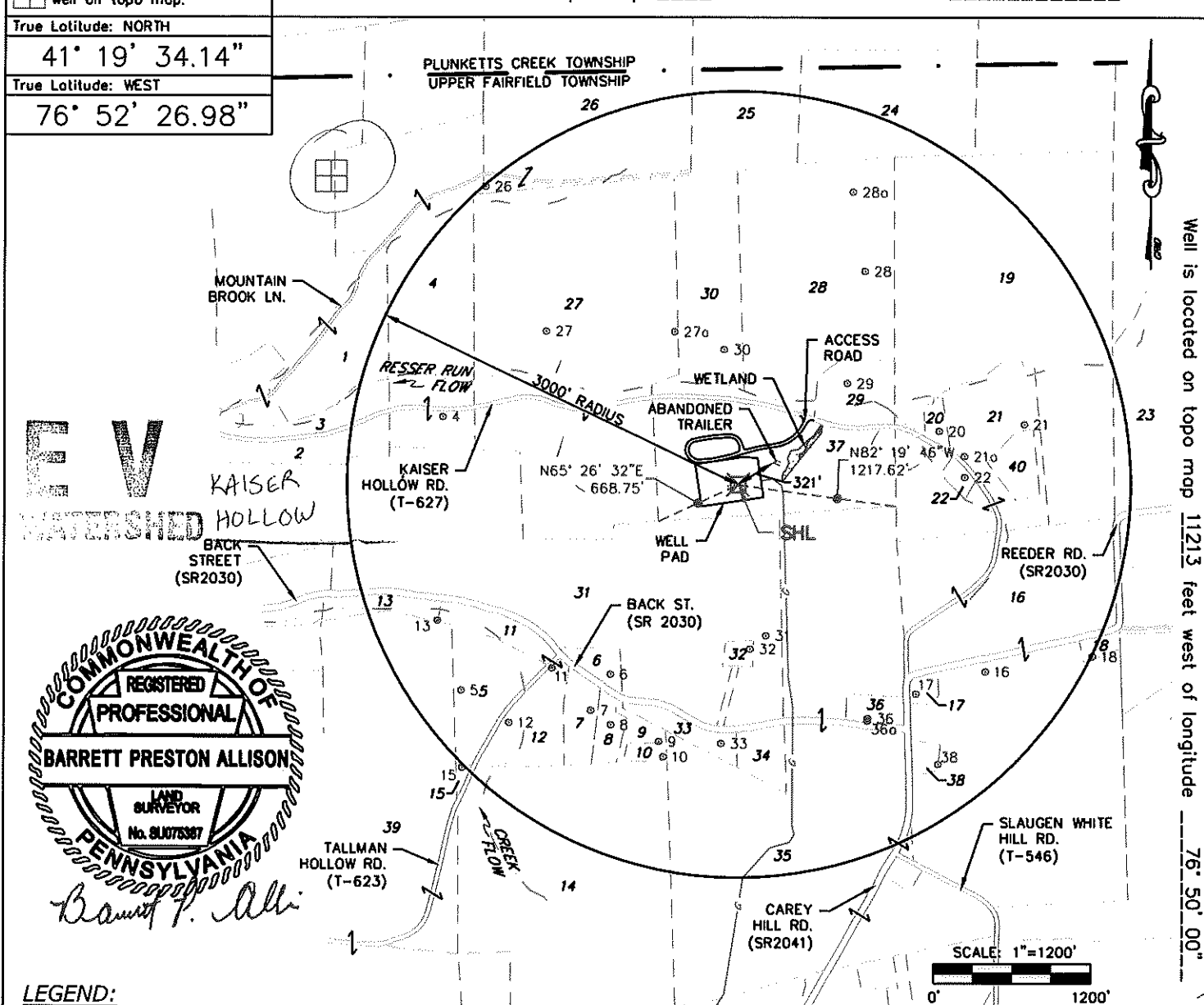
Denotes location of top of well on topo map.

True Latitude: NORTH

41° 19' 34.14"

True Latitude: WEST

76° 52' 26.98"

Well is located on topo map 2617 feet south of latitude 41° 20' 00"

LEGEND:

- TRACT BOUNDARY
- PROPOSED BORE
- TAX PARCEL LINE
- STREAM/CREEK
- EXISTING WATER WELL/SOURCE
- PROPERTY OWNER (SEE CHART)
- BHL BOTTOM HOLE LOCATION
- SHL SURFACE HOLE LOCATION

NOTES:

1. WATER WELL LOCATIONS ARE SHOWN PER SURVEY DATA PREVIOUSLY OBTAINED BY OTHERS AND SUPPLIED BY INFLECTION ENERGY, LLC.
2. THE INTENT OF THIS PLAT IS TO SHOW THE LOCATION OF THE PROPOSED GAS WELL AND BORE LOCATION. THIS PLAN DOES NOT REPRESENT A BOUNDARY SURVEY. PROPERTY LINES AND OWNER INFORMATION WERE OBTAINED FROM REFERENCE PLANS, TAX RECORDS, AND COUNTY GIS INFORMATION.

Applicant/Well Operator Name: Inflection Energy (PA) LLC		DEP ID # 313418		Well (Farm) Name: HILLEGAS		Well #: 2		Serial #:	
Address: 49 E. 4th Street, Suite 101, Williamsport PA 17701				County: LYCOMING		Municipality: UPPER FAIRFIELD TWP.		Well Type: Gas	
911 address of well site: 2098 Kaiser Hollow Rd., Montoursville, PA 17754				USGS 7½' Quadrangle Map Name: HUNTERSVILLE 0631		Map Section: 4		Surface Elevation: 948 ft.	
Surveyor or Engineer: McTISH KUNKEL & ASSOCIATES		Phone #: 570-368-3040		Dwg #: 06335-49		Date: 09/07/2016		Scale: 1" = 1200'	
Lot. & Long Metadata Method: GIS & GPS		Accuracy: ± 10 ft.		Datum: NAD 83		Elevation Metadata Method: GIS & GPS		Accuracy: ± 20 ft.	
				Datum: NAVD 88		Survey Date: 06/18/2013			

WELL LOCATION PLAT

PAGE 2 Notifications

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

Applicant/Well Operator Name: Inflection Energy (PA) LLC		DEP ID # 313418	Well (Form) Name: HILLEGAS		Well #: 2
Surface Lessor/Lessor: HILLEGAS IRREV RES & INC TRUST /		Angle & Course of Deviation (Drilling) N09° 12' 14"W 696.47' / KOP TO LPT N13° 34' 41"W 3821.61' / LPT TO BHL		Anticipated True Vertical Depth (TVD) 8935.48 (BHL) / ft.	Anticipated Total Measured Depth (TMD) 12850 (BHL) / ft.
Target Formation(s): MARCELLUS		Deepest Formation to be Penetrated: MARCELLUS		Number of Laterals: 1	Total footage to be drilled all laterals: 12850 / ft.
Surface Owner/Water Purveyor w/Water Supply within 3000'		Latitude/Longitude of Water Supply			
GORTNER, NORMA J & ELAINE G CLARK /		N 41°19'39.46" W 76°52'56.58" (SPRING #4) /			
HORNING, SCOTT A & CHERYL E LANTZ /		N 41°19'18.85" W 76°52'54.96" (WELL #5) /			
REEDER, TIMOTHY J & LAURA BOWER /		N 41°19'19.96" W 76°52'39.94" (WELL #6) /			
GOOD, LESTER E JR & JANE D /		N 41°19'17.24" W 76°52'41.95" (WELL #7) /			
RAKESTRAW, DAVID R & KIMBERLY A /		N 41°19'16.14" W 76°52'39.99" (WELL #8) /			
WLDE, AMBER G /		N 41°19'14.85" W 76°52'35.16" (WELL #9) /			
BREASETTE, ARLETTA S & DAVID A /		N 41°19'13.71" W 76°52'34.73" (WELL #10) /			
REEDER, JAMES B ET AL /		N 41°19'20.47" W 76°52'45.79" (WELL #11) /			
WORTHINGTON, HARRY B & ELLEN M /		N 41°19'16.40" W 76°52'50.16" (WELL #12) /			
WINTER, GAIL L /		N 41°19'24.13" W 76°52'57.31" (WELL #13) /			
YEAGLE, ELWOOD H & CONNIE J /		N 41°19'13.03" W 76°52'54.94" (WELL #15) /			
REEDER, MAX A ET AL /		N 41°19'19.89" W 76°52'02.36" (WELL #16) /			
REEDER, MARCIA A /		N 41°19'18.25" W 76°52'09.38" (WELL #17) /			
CASE, MARTIN D & LORRAINE E /		N 41°19'20.94" W 76°51'51.65" (WELL #18) /			
BOYER, KENNETH E & RACHELLE /		N 41°19'38.04" W 76°52'06.79" (WELL #20) /			
HAUSER, RAYMOND L /		N 41°19'38.46" W 76°51'58.23" (WELL #21) /			
HAUSER, RAYMOND L /		N 41°19'36.12" W 76°52'04.26" (WELL #21a) /			
SHADDAY, E RAY /		N 41°19'34.54" W 76°52'04.25" (WELL #22) /			
HEPBURN LIVING TRUST /		N 41°19'56.79" W 76°52'52.08" (WELL #26) /			
HILLEGAS IRREV RES & INC TRUST /		N 41°19'45.85" W 76°52'46.11" (SPRING #27) /			
HILLEGAS IRREV RES & INC TRUST /		N 41°19'45.71" W 76°52'33.23" (SPRING #27a) /			
MULL, DAVID L & GLORIA R /		N 41°19'50.12" W 76°52'14.09" (WELL #28) /			
MULL, DAVID L & GLORIA R /		N 41°19'56.10" W 76°52'15.20" (SPRING #28a) /			
LUNT, LUTHER E & JUDITH A /		N 41°19'41.70" W 76°52'15.94" (SPRING #29) /			
CLARK, ARTHUR H III /		N 41°19'44.34" W 76°52'28.25" (WELL #30) /			
DINGES, IVAN K & ANN /		N 41°19'22.76" W 76°52'24.28" (WELL #31) /			
Municipality: where the well will be drilled, adjacent to the well, or within 3000 feet		Municipality: where the well will be drilled, adjacent to the well, or within 3000 feet			
UPPER FAIRFIELD TOWNSHIP /	MUNCY TOWNSHIP /				
PLUNKETTS CREEK TOWNSHIP /	MILL CREEK TOWNSHIP /				
ELDRED TOWNSHIP /	LYCOMING COUNTY /	Cool Related Parties			
FAIRFIELD TOWNSHIP /		NONE			
LOYALSOCK TOWNSHIP /					

WELL LOCATION PLAT

PAGE 2 Notificotions

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

WELL LOCATION PLAT

PAGE 1 Surface Location

DEP	Auth ID #:	G:
USE	Permit #:	C:
ONLY	Project #:	

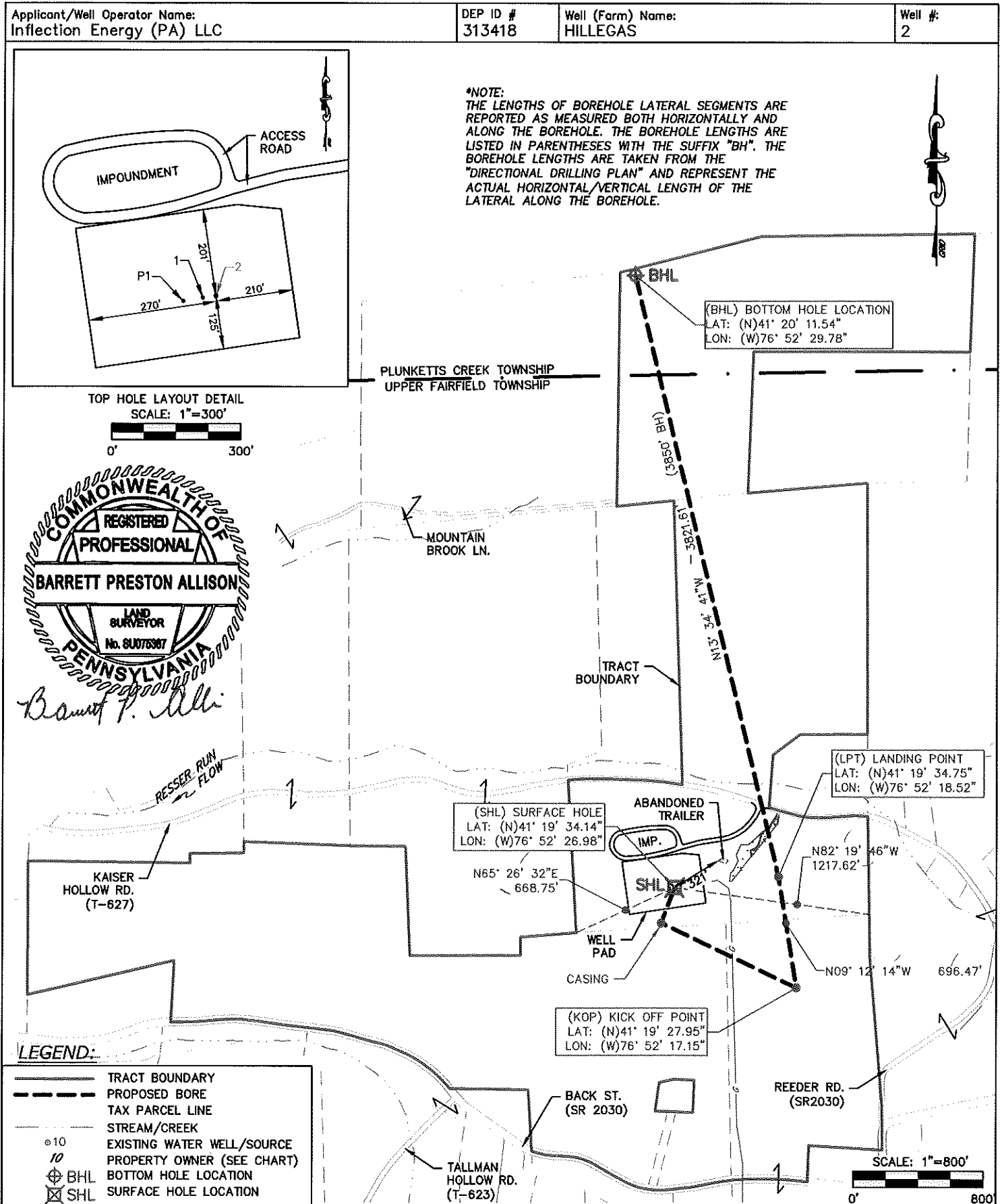
NO.	NAME	TAX ID
1	DAVIDSON	56-291-110
2	JACOBS	56-291-110.B
3	MUMMA	56-291-110.C
4	GORTNER	56-291-111
5	HORNING	56-291-112
6	REEDER	56-291-112.B
7	GOOD	56-291-112.C
8	RAKESTRAW	56-291-112.D
9	WILDE	56-291-112.E
10	BREASETTE	56-291-112.F
11	REEDER	56-291-112.H
12	WORTHINGTON	56-291-112.J
13	WINTER	56-291-112.X
14	DAVIS	56-291-113.A
15	YEAGLE	56-291-113.B
16	REEDER	56-292-122
17	REEDER	56-292-122.A
18	CASE	56-292-122.B
19	IFFLAND FARMS LLC	56-292-123
20	BOYER	56-292-123.A
21	HAUSER	56-292-123.B
22	SHADDAY	56-292-123.C
23	BOSCH	56-292-124
24	FLOOK	56-292-128
25	HEPBURN	56-292-129
26	HEPBURN LIVING TRUST	56-292-130
27	HILLEGAS IRREV RES & INC TRUST	56-292-131
28	MULL	56-292-132
29	LUNT	56-292-132.A
30	CLARK	56-292-132.B
31	DINGES	56-292-133
32	DINGES	56-292-133.A
33	DINGES	56-292-133.B
34	DINGES	56-292-133.C
35	HANNA	56-292-134
36	HANNA	56-292-134.A
37	HILLEGAS IRREV RES & INC TRUST	56-292-136
38	YOURISH	56-292-140
39	DAVIS REVOCABLE TRUST	56-311-100
40	HAUSER	56-292-123.D

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Applicant/Well Operator Name: Inflection Energy (PA) LLC		DEP ID # 313418	Well (Farm) Name: HILLEGAS		Well #: 2	Serial #:
Address: 49 E. 4th Street, Suite 101, Williamsport PA 17701			County: LYCOMING	Municipality: UPPER FAIRFIELD TWP.	Well Type: Gas	
911 address of well site: 2098 Kaiser Hollow Rd., Montoursville, PA 17754			USGS 7½' Quadrangle Map Name: HUNTERSVILLE	Map Section: 4	Surface Elevation: 948	
Surveyor or Engineer: McTISH KUNKEL & ASSOCIATES	Phone #: 570-368-3040	Dwg #: 06335-49	Date: 09/07/2016	Scale: N/A	Tract Acreage: 270±	
Lot. & Long Metadata Method: GIS & GPS	Accuracy: ± 10 ft.	Datum: NAD 83	Elevation Metadata Method: GIS & GPS	Accuracy: ± 20 ft.	Datum: NAVD 88	Survey Date: 06/18/2013

WELL LOCATION PLAT

PAGE 3 Plan View of Deviated Well Bore



WELL LOCATION PLAT

PAGE 4 Cross Section

Applicant/Well Operator Name: Inflection Energy (PA) LLC	DEP ID # 313418	Well (Form) Name: HILLEGAS	Well #: 2
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DEP	Auth ID #:	G:
USE	Permit #:	C:
ONLY	Project #:	

Operator name : Inflection Energy (PA) LLC

Well / Farm name : HILLEGAS

			Latitude	Longitude	
Kick Off Point :	TVD : <u>5487.71</u>	TMD : <u>5652</u>	<u>41° 19' 27.95"</u>	<u>76° 52' 17.15"</u>	Notes :
Landing Point :	TVD : <u>8466.28</u>	TMD : <u>9000</u>	<u>41° 19' 34.75"</u>	<u>76° 52' 18.52"</u>	

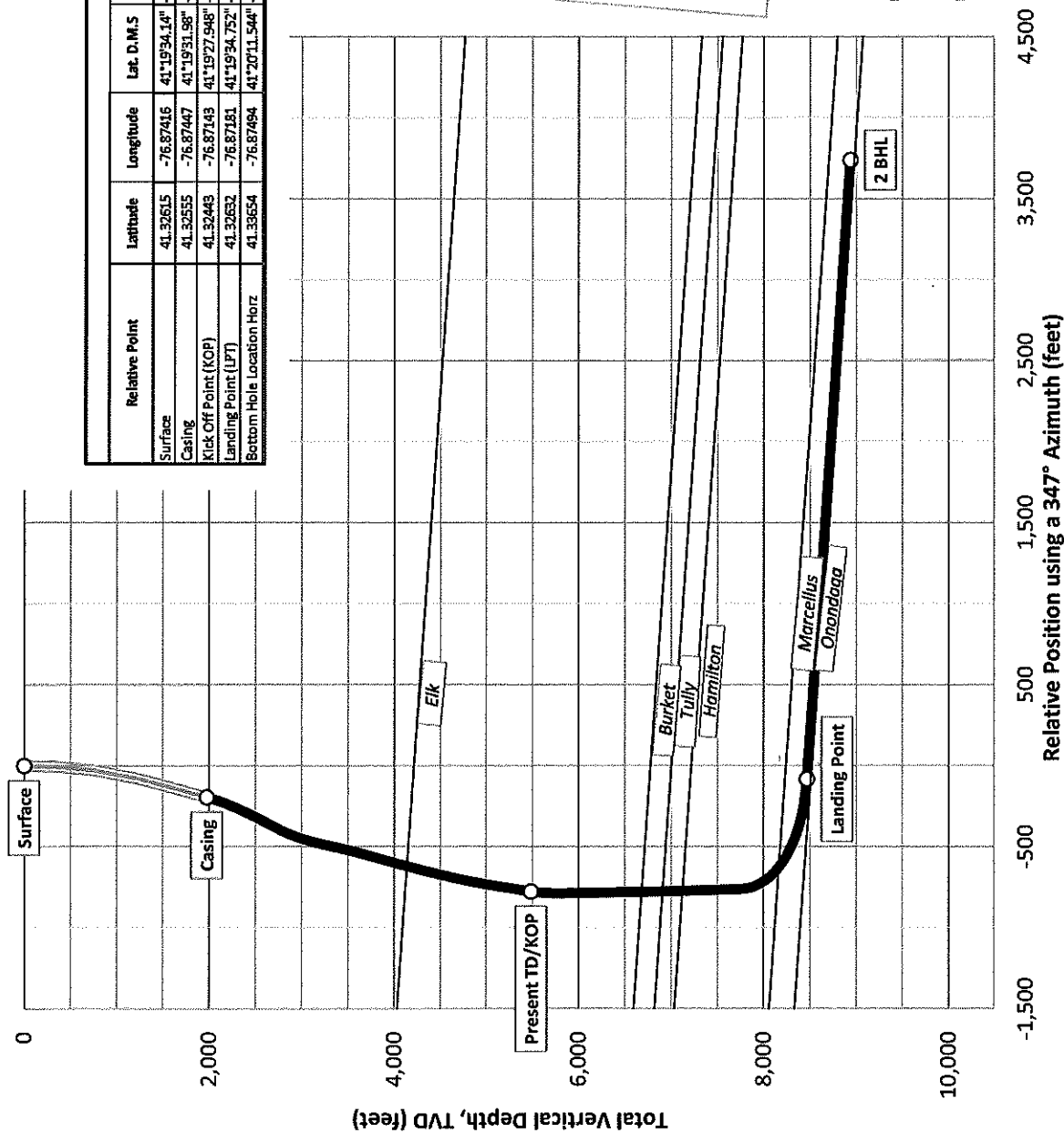
SEE ATTACHED VERTICAL SECTION

Marcellus Horizontal



INFLECTION
ENERGY, LLC

MAD83 - Pennsylvania North												
Relative Point	Latitude	Longitude	Lat. D.M.S.	Long D.M.S.	Northing	Easting	MD (ft)	TVD (ft)	Inclination (deg)	Azimuth (deg)	N/S (ft)	E/W (ft)
Surface	41.32615	-76.87446	41°19'34.14"	76°52'26.978"	423672.30	2209051.40	0	0	0	0	0.00	0.00
Casing	41.32555	-76.87447	41°19'31.98"	76°52'28.092"	423452.90	2208968.40	1995	1976.76	11.32	199.9	-218.60	-83.23
Kick Off Point (KOP)	41.32443	-76.87148	41°19'27.948"	76°52'17.486"	423033.50	2209807.00	5652	5487.71	10.63	105.01	-624.34	752.03
Landing Point (LP7)	41.32632	-76.87181	41°19'34.752"	76°52'18.516"	423740.80	2209896.10	9000	8466.28	83	347	63.32	647.12
Bottom Hole Location Horiz	41.33654	-76.87494	41°20'11.544"	76°52'29.784"	427445.60	2208798.90	12850	8993.48	83	347	3786.68	-212.49



RECEIVED
NOV 23 2016
Environmental Protection
Northwest Regional Office

Surface Casing

Production Casing

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

Farm Name - Well No. Hillegas 2		DEP ID 313418
Applicant Name No. Infection Energy (PA) LLC		
DEP USE ONLY	APS No.	

List the following: surface landowner, surface landowners and water purveyors with water supplies within 3,000 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 3,000 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 <300'	Municipalities	Notification Note the means and attach proof. Certified Mail Dates		
		Address:	Address:	Address:	Address:	Return Receipt	Address Affidavit	Written Consent
Print Name: FLOOK, MICHAEL W Signature	Address: 195 E RT 973 HWY COGAN STATION PA 17728					9/21/2016	9/26/2016	
Print Name: HANNA, WILLIAM L & NANCY L Signature	Address: 2185 BACK ST MONTGOMERYVILLE PA 17754					9/21/2016	9/26/2016	
Print Name: JACOBS, MELINDA Signature	Address: 163 GREEN HOLLOW RD MONTGOMERYVILLE PA 17754					9/21/2016	9/28/2016	
Print Name: WELTMER, TODD M & PAMELA A Signature	Address: 65 JERRY LN MONTGOMERYVILLE PA 17754					9/21/2016	9/28/2016	
Print Name: WINTER, GAIL L Signature	Address: 1506 BACK ST MONTGOMERYVILLE PA 17754			X		9/21/2016	9/28/2016	

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:	☐	☐

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

Farm Name - Well No. Hillegas 2		DEP ID 313418
Applicant Name No. Inflection Energy (PA) LLC		
DEP USE	APS No.	
ONLY		

		Notification			
		Note the means and attach proof.		Written Consent	
		Certified Mail Dates	Return Receipt	Address Affidavit	Written Consent
		Sent			
List the following: surface landowner; surface landowners and water purveyors with water supplies within 3,000 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 3,000 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.		Surface Landowner	Gas Storage Operator	Surface Landowners & Water Purveyors With water supplies <3000'	Municipalities
Print Name: HEPBURN, ANDREW	Address: 271 FINK DR MONTGOMERYVILLE PA 17754				
Signature					
Print Name: MUMMA, EVAN & LORI A	Address: 65 MOUNTAIN BROOK LN MONTGOMERYVILLE PA 17754				
Signature					
Print Name: DINGES, MATTHEW R & ALLISON	Address: 1974 BACK ST MONTGOMERYVILLE PA 1775		X		
Signature					
Print Name: MULL, DAVID L & GLORIA R	Address: 1901 KAISER HOLLOW RD MONTGOMERYVILLE PA 17754		X		
Signature					
Print Name: BREASETTE, ARLETTA S & DAVID A	Address: 1834 BACK ST MONTGOMERYVILLE PA 17754		X		
Signature					

RECEIVED
NOV 23 2016
Environmental Protection
Northwest Regional Office

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:		☐	☐

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

Farm Name - Well No. Hillegas 2		DEP ID 313418
Applicant Name No. Inflection Energy (PA) LLC		
DEP USE	APS No.	
ONLY		

List the following: surface landowner, surface landowners and water purveyors with water supplies within 3,000 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 3,000 feet. Mark the boxes, "X," which show the parties' interests. Use additional forms if you need more space. 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:			
						Certified Mail Dates	Return Receipt	Address Affidavit	Written Consent
Print Name: GORTNER, NORMA J & ELAINE G CLARK	Address: 147 SHICK RD MONTGOMERYVILLE PA 17754			X			9/21/2016	9/28/2016	
Signature									
Print Name: HILLEGAS IRREV RES & INC TRUST	Address: 1673 KAISER HOLLOW RD MONTGOMERYVILLE PA 17754	X					9/21/2016	9/26/2016	
Signature									
Print Name: LUNT, LUTHER E & JUDITH A	Address: 2099 KAISER HOLLOW RD MONTGOMERYVILLE PA 17754			X			9/21/2016	9/26/2016	
Signature									
Print Name: REEDER, JAMES B ET AL	Address: C/O JAMES REEDER 1642 BACK ST MONTGOMERYVILLE PA 17754			X			9/21/2016	9/29/2016	
Signature									
Print Name: WORTHINGTON, HARRY B & ELLEN M	Address: 2264 TALLMAN HOLLOW RD MONTGOMERYVILLE PA 17754			X			9/21/2016	9/24/2016	
Signature									

NOV 23 2016
Environmental Protection
Northwest Regional Office

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
Print and Sign Name:	Address:	Date:	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 No. Hillegas 2		DEP ID 313418
Applicant Name No. Inflection Energy (PA) LLC		
DEP USE ONLY	APS No.	

		Notification							
		Note the means and attach proof.		Certified Mail Dates					
		Surface Landowner	Gas Storage Operator	Surface Landowners & Water Purveyors with water supplies <3000'	Municipalities	Sent	Return Receipt	Address Affidavit	Written Consent
List the following: surface landowner; surface landowners and water purveyors with water supplies within 3,000 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 3,000 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: HEPBURN LIVING TRUST Signature	Address: 2010 FAIRVIEW RD MONTGOMERYVILLE PA 17754			X		9/21/2016	9/26/2016		
Print Name: HILLEGAS IRREV RES & INC TRUST Signature	Address: 1673 KAISER HOLLOW RD MONTGOMERYVILLE PA 17754			X		9/21/2016	9/26/2016		
Print Name: DINGES, MICHAEL A & CHRISTINA L Signature	Address: 1975 BACK ST MONTGOMERYVILLE PA 17754			X		9/21/2016	9/26/2016		
Print Name: RAKESTRAW, DAVID R & KIMBERLY A Signature	Address: 3116 REEDER RD MONTGOMERYVILLE PA 17754			X		9/21/2016	9/29/2016		
Print Name: WILDE, AMBER G Signature	Address: 1830 BACK ST MONTGOMERYVILLE PA 17754			X		9/21/2016	10/03/2016		

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:	Water Well within 500 feet	
		☐	☐
Print and Sign Name:	Address:	☐	☐
Print and Sign Name:	Address:	☐	☐
Print and Sign Name:	Address:	☐	☐
Print and Sign Name:	Address:	☐	☐

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

Farm Name - Well No. Hillegas 2		DEP ID 313418
Applicant Name No. Inflection Energy (PA) LLC		
DEP USE ONLY	APS No.	

		Notification				
		Note the means and attach proof.		Written Consent		
		Certified Mail Dates	Return Receipt	Address Affidavit		
List the following: surface landowner, surface landowners and water purveyors with water supplies within 3,000 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 3,000 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.		Surface Landowner	Gas Storage Operator	Surface Landowners & Water Purveyors with water supplies <3000'	Municipalities	
Print Name: BOYER, KENNETH E & RACHELLE	Address: 2267 KAISER HOLLOW RD MONTGOMERYVILLE PA 17754			X		
Signature					9/21/2016	9/29/2016
Print Name: REEDER, TIMOTHY J & LAURA BOWER	Address: 1789 BACK ST MONTGOMERYVILLE PA 17754			X		
Signature					9/21/2016	
Print Name: GOOD, LESTER E JR & JANE D	Address: 1778 BACK ST MONTGOMERYVILLE PA 17754			X		
Signature					9/21/2016	9/26/2016
Print Name: DAVIS REVOCABLE TRUST, CARL H & NEVA M	Address: 1925 TALLMAN HOLLOW RD MONTGOMERYVILLE PA 17754					
Signature					9/21/2016	9/28/2016
Print Name: BOSCH, PAUL D JOANNE L & STAHL	Address: C/O JOANNE BOSCH 1900 RAVINE RS A 316 WILLIAMSPORT PA 17701					
Signature					9/21/2016	9/26/2016

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:	☐

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

Farm Name - Well No. Hillegas 2		DEP ID 313418
Applicant Name No.		
Inflection Energy (PA) LLC		
DEP USE ONLY	APS No.	

		Notification				Municipalities	Surface Landowners & Water Purveyors <3000'	Gas Storage Operator	Surface Landowner	List the following: surface landowners and water purveyors with water supplies within 3,000 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 3,000 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	
		Note the means and attach proof.		Certified Mail Dates							
Print Name:	Signature	Address:	Sent	Return Receipt	Address Affidavit	Written Consent					
HAUSER, RAYMOND L		2313 KAISER HOLLOW RD MONTGOMERYVILLE PA 17754	9/21/2016	9/29/2016			X				
REEDER, MAX A ET AL		118 GREEN ST MUNCY PA 17756	9/21/2016	9/28/2016			X				
SHADDAY, E RAY		1638 W SOUTHERN AVE SOUTH WILLIAMSPORT PA 17702	9/21/2016	9/26/2016			X				
YOURISH, MICHAEL J & JANET F		2780 CAREY HILL RD MONTGOMERYVILLE PA 17754	9/21/2016	9/26/2016			X				
HORNING, SCOTT A & CHERYL E LANTZ		2247 TALLMAN HOLLOW RD MONTGOMERYVILLE PA 17754	9/21/2016	9/26/2016			X				

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	
		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 No. Hillegas 2		DEP ID 313418
Applicant Name No. Inflection Energy (PA) LLC		
DEP USE ONLY	APS No.	

List the following: surface landowner, surface landowners and water purveyors with water supplies within 3,000 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 3,000 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.	Certified Mail Dates	Address Affidavit
Print Name: DAVIS, JILL M Signature	Address: 300 CAREY HILL RD MONTGOMERYVILLE PA 17754					Sent	Return Receipt	Written Consent
Print Name: YEAGLE, ELWOOD H & CONNIE J Signature	Address: 876 YEAGLE RD MONTGOMERYVILLE PA 17754		X			9/21/2016	9/29/2016	
Print Name: HANNA, WILLIAM L & NANCY L Signature	Address: 2185 BACK ST MONTGOMERYVILLE PA 17754		X			9/21/2016	9/26/2016	
Print Name: REEDER, MARCIA A Signature	Address: 52 REEDER RD MONTGOMERYVILLE PA 17754		X			9/21/2016	9/26/2016	
Print Name: CASE, MARTIN D & LORRAINE E Signature	Address: 324 REEDER RD MONTGOMERYVILLE PA 17754		X			9/21/2016	9/26/2016	

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		Check applicable box	
Address:	Date:	Water Well within 500 feet	Building within 500 feet
Print and Sign Name:		☐	☐
Print and Sign Name:		☐	☐
Print and Sign Name:		☐	☐
Print and Sign Name:		☐	☐
Print and Sign Name:		☐	☐

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

Farm Name - Well No. Hillegas 2		DEP ID 313418
Applicant Name No. Inflection Energy (PA) LLC		
DEP USE ONLY	APS No.	

List the following: surface landowner; surface landowners with water supplies within 3,000 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 3,000 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		
						Certified Mail Dates	Return Receipt	Address Affidavit
Print Name: DAVIDSON, MARK N & PATRICIA A Signature	Address: 315 MOUNTAIN BROOK LN MONTGOMERYVILLE PA 17754					9/21/2016	9/26/2016	
Print Name: CLARK, ARTHUR H & ELAINE G III Signature	Address: 1891 KAISER HOLLOW RD MONTGOMERYVILLE PA 17754			X		9/21/2016	9/29/2016	
Print Name: IFFLAND FARMS LLC Signature	Address: 5188 PEBBLE BEACH BLVD WINTER HAVEN FL 33884					9/21/2016	10/03/2016	
Print Name: DINGES, IVAN K & ANN Signature	Address: 54 TIMBERSTONE DR MONTGOMERYVILLE PA 17754			X		9/21/2016	9/26/2016	
Print Name: DINGES, IVAN K & ANN Signature	Address: 54 TIMBERSTONE DR MONTGOMERYVILLE PA 17754					9/21/2016	9/26/2016	

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Environmental Protection
Northwest Regional Office

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:	☐	☐

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

Farm Name - Well No. Hillegas 2		DEP ID 313418
Applicant Name No. Infection Energy (PA) LLC		
DEP USE ONLY	APS No.	

		Notification			
		Note the means and attach proof.		Written Consent	
		Certified Mail Dates	Return Receipt	Address Affidavit	Written Consent
		Sent			
Surface Landowner	Surface Landowners & Water Purveyors with water supplies <3000'	Gas Storage Operator	Municipalities		
List the following: surface landowner, surface landowners and water purveyors with water supplies within 3,000 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 3,000 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: HAUSER, RAYMOND L Signature	Address: 2315 KAISER HOLLOW RD MONTGOMERYVILLE PA 17754		X	9/21/2016	9/29/2016
Print Name: ELDRED TOWNSHIP Signature	Address: C/O TAMMY KOSER 5558 WARRENSVILLE RD MONTGOMERYVILLE PA 17754		X	9/21/2016	9/29/2016
Print Name: FAIRFIELD TOWNSHIP Signature	Address: C/O RONALD E SPRINGMAN 834 FAIRFIELD CHURCH RD MONTGOMERYVILLE PA 17754		X	9/21/2016	9/26/2016
Print Name: PLUNKET'S CREEK TOWNSHIP Signature	Address: C/O RAY LEWIS 10751 RT 87 HWY WILLIAMSPORT PA 17701		X	9/21/2016	X
Print Name: UPPER FAIRFIELD TOWNSHIP Signature	Address: C/O PENNY RUGGIERI 4090 ROUTE 87 HIGHWAY MONTGOMERYVILLE PA 17754		X	9/21/2016	9/29/2016

RECEIVED
NOV 23 2016
Environmental Protection
Northwest Regional Office

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:	☐

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

Farm Name - Well No. Hillegas 2		DEP ID 313418
Applicant Name No. Infection Energy (PA) LLC		
DEP USE ONLY	APS No.	

List the following: surface landowners and water purveyors with water supplies within 3,000 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 3,000 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 within 3,000'	Municipalities	Notification			
						Certified Mail Dates	Note the means and attach proof.		
Print Name: LOYALSOCK TOWNSHIP Signature	Address: C/O SARAH HUGHES 25011 E 3 RD ST WILLIAMSPORT PA 17701				X	Sent 9/21/2016	Return Receipt 9/28/2016	Address Affidavit	Written Consent
Print Name: MUNCY TOWNSHIP Signature	Address: C/O GWEN PIDCOE 1922 POND RD PENNSDALE PA 17756				X	Sent 9/21/2016	Return Receipt 9/28/2016		
Print Name: MILL CREEK TOWNSHIP Signature	Address: C/O NORMA J ZEISLOFT 383 HIGHVIEW TERRACE MUNCY PA 17756				X	Sent 9/21/2016	Return Receipt 10/03/2016		
Print Name: LYCOMING COUNTY Signature	Address: C/O KURT HAUSAMMANN 48 W 3 RD ST WILLIAMSPORT PA 17701				X	Sent 9/21/2016	Return Receipt 9/26/2016		
Print Name: Signature	Address:								
Print Name: Signature	Address:								

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:	☐ ☐