



Permit Modification

Proposed Natural Gas Well- Hillegas 2H
Well Location- Upper Fairfield Township, Lycoming County, PA
Latitude- 41° 19' 34.14"
Longitude- 76° 52' 26.98"

The above described Inflection Energy (PA) LLC gas well permit modification is for the extension of the Hillegas 2H lateral (API-37-081-21336-00-01).

101 West 3rd Street, 5th Floor Williamsport, PA 17701

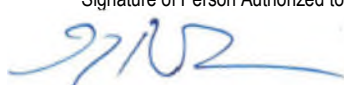
Phone: 303-531-2300 Fax: 303-531-2301



PERMIT APPLICATION TO DRILL AND OPERATE AN UNCONVENTIONAL WELL

Please read instructions before you begin filling in this form.

WELL INFORMATION										
Well Operator INFLECTION ENERGY (PA) LLC			DEP ID# 313418		Well API No. 37-081-21336-00-01		Well Farm Name HILLEGAS		Well # 2	
Address 101 WEST THIRD STREET, 5TH FLOOR				LAT 41.32615 LONG - 76.87416		NAD 83	Project Number N/A		Serial # N/A	
City WILLIAMSPORT			State PA	Zip Code 17701	Municipality Name/ City, Borough, Township UPPER FAIRFIELD / TOWNSHIP			County LYCOMING		
Phone No. (303) 531-2300			Fax No. (303) 531-2301		Email donald.stevenson@inflectionenergy.com			USGS 7.5 min. quadrangle map HUNTERSVILLE		Section 4
24/7 Emergency Phone Contact No.: (800) 641-1664				ESGP Permit No. ESG13-081-0049			Well Pad (cluster) Name/Identification HILLEGAS			
911 address of well site (if available) 2098 KAISER HOLLOW RD., MONTICELLO PA 17754										
Surface Elev. 948		Deepest Formation to be Penetrated MARCELLUS			Anticipated TVD 9,380.69		PERMIT TYPE Check applicable. Application is to ☒ Modify existing well/permit	TYPE OF WELL Check applicable. ☒ Gas ☐ Comb. (gas & oil/condensate) Configuration ☐ Vertical ☒ Horizontal ☐ Deviated ☐ Multiple laterals	APPLICATION FEE Check applicable. ☐ Vertical ☒ Non-vertical Total Application Fee \$ 5,250	
Target Formation(s) Proposed for Production MARCELLUS			Anticipated Target Top/Bottom TVD 8,500 / 8,880			Bond Agreement Id: SUR001477				
Number of wellbore laterals proposed under this application 1 .										
Total feet of wellbore to be drilled under this application 13050 Ft.										
PNDI Attached: ☒ Any threatened or endangered "hit" must include a demonstration of how the impact will be avoided or minimized and mitigated, or justification that section 78a.15(e) applies.										
Application submitted as: ☐ Coal 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 proposed limit of disturbance of the well site be within 100 feet measured horizontally from any watercourse or any high quality of exceptional value body of water or any wetland one acre or greater in size?								☒	☐	
If yes, attach the following if applicable: a site-specific E&S control plan, a permit consistent with Chapter 102, applicable portions of the Pollution Prevention Control Plan, applicable portions of the Well Site Emergency Response Plan, applicable portions of the Site Containment Plan, the permit number of a Water Obstruction and Encroachment Permit issued pursuant to Chapter 105, or justification that section 78a.15(e) applies.								☒	☐	
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, attach a plan that identifies the additional measure, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the Commonwealth								☐	☐	

COORDINATION WITH REGULATIONS AND OTHER PERMITS (cont'd)		Yes	No
3. Will the vertical wellbore section 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 section 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. 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?		☐	☒
a. If "Yes," was there a permitted well at this well site prior to April 16, 2012?		☐	☐
b. If the answer to question no. 6a is "Yes", provide the US Well Number (API No.) of the well permitted at this site prior to April 16, 2012. _____		☐	☐
7. 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 8000-PM-OOGM0076? If yes, attach a completed copy of the form.		☒	☐
8. 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 LOYALSOCK CREEK (EV)_____.		☒	☐
9. 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_____ If no, is this well part of a development that involves 1 to less than 5 acres of earth disturbance over the life of the project and is the answer to question no. 8 "Yes"? If yes, attach a site-specific E&S control plan.		☒	☐
10. Is the well to be located within a H ₂ S area pursuant to §78a.77a?		☐	☒
11. Attach a current Ownership & Control form 8000-FM-OOGM0118 with the first application submitted after the effective date of the final "Environmental Protection Performance Standards at Oil and Gas Well Sites" rulemaking, or if there have been any changes to parent and subsidiary business corporations.			
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: GREGG SAUNDERS, P.E. Title: SUPERVISOR OF ENGINEERING CONSTRUCTION AND PERMITTING	Date 09/22/2017
Application Preparer/Contact: DONALD STEVENSON, EIT		Phone: 303-531-2300	