/ DGM0001a Rev. 5/2012 jennsylvania

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

Alter

PERMIT APPLICATION TO DRILL AND OPERATE A CONVENTIONAL WELL DEP USE ONLY Objection Date - Do not issue before: 0G0# 67515 Notes Date Approved: Client Id Watershed Name: □ EV ☐ HQ Bond # Designation: 00.01:1 Special Cond INV: PF10 -14110 Site Id PNO Please read instructions before you begin filling in this form. WELL INFORMATION Well# Well Farm Name Well API# DEP ID# 9 Well Operator 37-121-44484-00-Latshaw 67515 Stonehaven Energy LLC Project Number Serial # 41°23, 16, 71" NAD Address LONG - 79°37, 42", 75" 1251 Waterfront Place, Suite 540 County Municipality Name/ City, Borough, Township State Zip Venango Township Cranberry 15222 PA Pittsburgh Section USGS 7.5 min. quadrangle map Email Fax jgraham@stonehavenenergy.co Phone Oil City 412-391-7220 412-526-2919 911 address of well site (if available) 24/7 Emergency Phone contact number 471 heckathorne church rd., Seneca 412-526-2919 Check if this is a new address Borrow Area Name/Identification Well Pad Name/Identification Centralized Impoundment Name/ Freshwater Impoundment Name/ N/A N/A Identification N/A Identification N/A APPLICATION FEE TYPE OF WELL PERMIT TYPE Anticipated TVD Deepest Formation to be penetrated: Check applicable. Surface Elev Check applicable. Check applicable. Drilled to Speechley 2206' 1476 ☐ Gas Application is to: Anticipated Target Top/Bottom TVD S200 (Home Use Well) Target Formation(s) proposed for production Oil Drill a new Comb. (gas & Total Application Fee \$ 100 L Re-permit expired oil/condensate) permit Injection, Number of wellbore laterals proposed under this application 0 #4913 Deepen well recovery Redrill wellbore M Injection, Total feet of wellbore to be drilled under this application 0 Ft. Alter well disposal If applying for a permit to rework an existing well not registered or permitted, ☐ Coalbed Other (specify) Bond Agreement id Methane check this box and enter date drilled, if known: (see instructions) ☐ Gas Storage PNDI Attached: ☑ Any threatened or endangered "hit" must include a copy of Other (specify) the clearance letter from the applicable agency(les). Application submitted as: Coal well: Attach Coal Module Configuration CBM well Attach Coal Module MAR 0 4 2014 ✓ Vertical Non coal well Attach justification. Horizontal xormental exotection □ Deviated ☐ Multiple laterals 👸 No Yes COORDINATION WITH REGULATIONS AND OTHER PERMITS 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? 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. Will the edge of the disturbed area of any portion of the well site of a conventional well be within 100 feet 冈 from the edge of any solid blue lined stream, spring or body of water identified on the most current 71/2' 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?

8000-PM-OOGM0001a Rev. 5/2012

1			
3. V	Will the well penetrate or be within 2,000 feet of an active gas storage reservoir boundary?		
,	a. If Yes, print the names of: Storage Field: Operator:		
	s the proposed well location within the permitted area of a landfill?		
5.	Will the well be drilled within 200 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?		
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 competed 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?		\boxtimes
	Provide name of special protection stream		► 3
7.1	Will the well be drilled using enhanced drilling or completion technologies into a formation that typically		
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.	<u></u>	
8.1	Is the disturbed area of the well site between 1 to 5 acres and in a Special Protection Watershed		
9.	Is waste, including drill cuttings, from the drilling of this well is to be disposed of on this well site? Yes □ No ☒		
10.	Will the well or well site be located within a defined 100 year floodplain or where the floodplain is undefined, with the bank of a perennial stream or within 50 feet of the top of the bank of an intermittent stream. Yes ☐ No ☐ a. If yes, is a waiver request attached that will protect the Waters of the Commonwealth? Yes ☐ No ☐	in 100 feet	of the top of
11	. Is the well to be located within a H₂S area pursuant to §78.77a? Yes □ No 区		- Lun - Luni
12	. Attach a current Ownership & Control form 8000-FM-OOGM0118.	of the applic	ant and that the
e.	The person signing this form attests that they have the authority to submit this application on behalf information, including all related submissions, is true and accurate to the best of their knowledge.	or the applic	ant, and that the
jai!	Signature of Person Authorized to Submit Application (Print or Type) Title: 1) restar of Operation		Date /17 /14 .
		814 657 436	i1
Ap	plication Preparer/Pontact: JOE FOX		

8000-РЖ-00СМОО2 4/2012

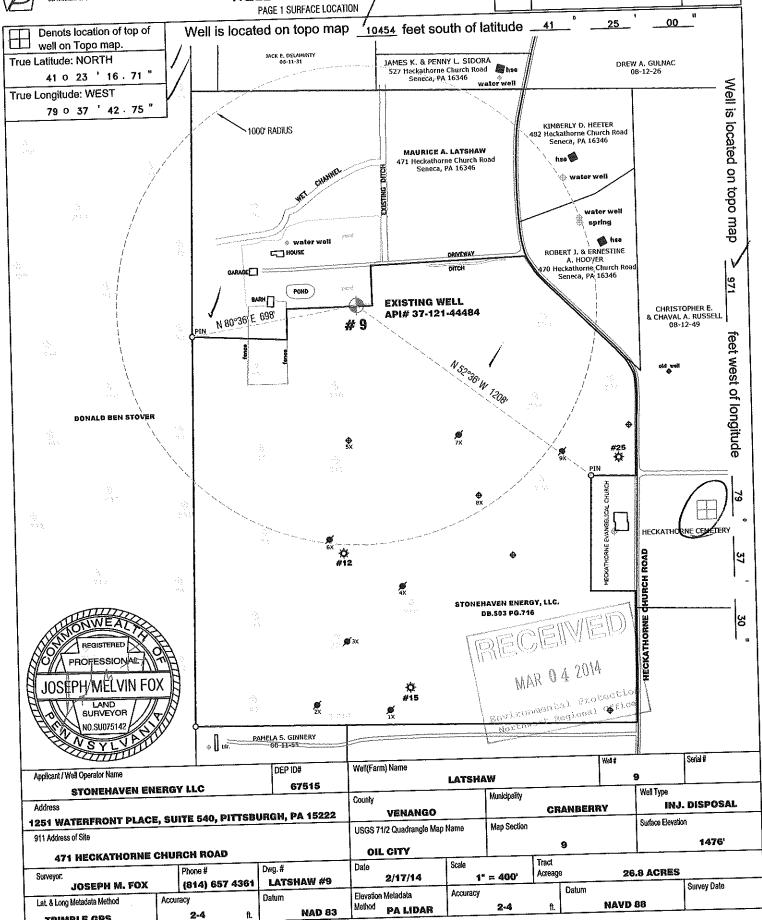
Pennsylvania DEPARTMENT OF ENVIRONMENTAL PROTECTION

TRIMBLE GPS

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION Oil and Gas Management Program

WELL LOCATION PLAT

DEP Application Tracking # DEP 44484-00-01 Permit # USE 131 Project# ONLY



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.

A Mall Cassins Nama	DEP ID#	Well (Farm) Name	Well#	Serial #
Applicant / Well Operator Name STONEHAVEN ENERGY LLC		LATSHAW	9 Anticipated True Vertice	at IAnticipated Total
STONEHAVEN ENTER STONE S		Angle & Course of Deviation (Orilling)	Depth Feet (TVD):	Anticipated Total Measured Depth Feet (TMD):
MAURICE A. LATSHAW		NONE	Drilled to 2200	6' 2206'
	The state of the s	Deepest Formation to be penetrated	Number of To	otel footage to be rilled all laterale:
et Formation(s): DRILLED TO SPEECHLEY FORMA	TION	SPEECHLEY	igletais. 0	N/A
		Latitude Longitud	le of Water Supply	
urface Owner/Water Purveyor w/Water Supply within	1000.000			
		41 23 1	9.29 79 37 46	3.56
MAURICE A. LATSHAW	Notes the second			<u> </u>
ROBERT J. & ERNESTINE A. HOO	VER	41 23 2		
ROBERT J. & ERNESTINE A. HOO		41 23 2	20.28 79 37 30	0.57
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hand the malt will be del	liad.	Municipality: whe	re the well will be dr	illed,
Municipality: where the well will be dri adjacent to the well, or within 2000 fe	iot,		wall, of width 3000 f	
CRANBERRY TWP., VENANGO	7	ASHLAND	TWP., CLARION CO	o. /
	/			
ROCKLAND TWP., VENANGO				
SANDYCREEK TWP., VENANG	io co.	Cont	related parties	
CITY OF FRANKLIN		COMIT	Stated Pareco	· · · · · · · · · · · · · · · · · · ·
SUGAR CREEK TWP., VENANG	go co. 🦯			
CITY OF OIL CITY				
	100.00			
CORNPLANTER TWP., VENAN				
PRESIDENT TWP., VENANGO	co. /	an,		
PINEGROVE TWP., VENANGO	co.	_		4

8000-PM-OOGM0001a Rev. 5/2012
Record of Notification / Written Consent
Personal Pers

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

PERMIT APPLICATION TO DRILL AND OPERATE A CONVENTIONAL WELL Record of Notification

	Farm Name - Well # Latshaw # 9	policant Name	ш	DEP USE APS#	
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					_	Note the means and attach proof.	ttach proof.	
		_			Certified	Certified Mail Dates		
List the following: surface landowner; surface landowners and water purveyors with water supplies within the well will be drilled; adjacent municipality; gas storage operator if within 2000 feet. Mark the boxes, "X the well will be drilled; adjacent municipality; gas storage operator if within 2000 feet. Mark the boxes, "X interests. Use additional forms if you need more space. You are required to notify each of these 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 location plat and serves as proof of notification	List the following: surface landowner; surface landowners and water purveyors with water supplies within 1000 feet, indirections, the parties of the well will be drilled; adjacent municipality, gas storage operator if within 2000 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	Surface Landowne & Water Purveyors with water supplies	Municipalities	Sent	Return Receipt	Address Affidavit	Writter
Print Name: Maurice A. Latshaw	Address: 471 Heckathorne Church Road	×			2/18/14	2/20/14		
Signature	Seneca, PA 16346		manhana ubaji in mandiji in mahiji pipa mahi	1000	and a promotion to proper and a principle of the principl	ne proprieta de la companya de la co	de annualiste publicament (spensore as) spensore as table	Common physical in physical dis
Print Name: Cranberry Township	Address: P.O. Box 378 Seneca, PA 16346			×	2/18/14	2/19/14	e de la composition della comp	. proprogramme destrons and destrons
Signature Print Name: Rockland Township	Address: 1115 Rockland Twp. Road Kennerdell, PA 16374	The state of the s	de de constante de la constant	×	2/18/14	2/20/14	manifest established in manife	- Proping and Proping and Confession of the Party
Signature Print Name: Sandycreek Township	Address: 878 Pone Lane Franklin, PA 16323	12 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -	And the second s	×	2/18/14	2/19/14	Addition and the primary of the prim	datepam da pepirita nahibi wa
Signature Print Name: City of Franklin	Address: 430 13th St. Franklin, Pa 16323	and the state of t		×	2/18/14	2/19/14		
Signature	Signature Record of Written Consent Record of Written Consent Record of Written Consent and waives the 15-day objection period where applicable.	Consent an consent a	It and waives t	ne 15-d:	y objection	period where a	plicable.	entri della filmanti della filma
Written Consent: Signature below indicat	tes the party's approval of the more than the party's approval of the party's	Surface Owner	Owner	Wa	Water Well within 200 feet	1 200 feet	Building within 200 feet	in 200 feet
	Address:					n paperson and depth promonent it makes at 1889.		panianila projep, na ri nadesjelj se maneki ki de
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a projekti na jesti projekti	Address:	pparinte account named in twister.	THE RESERVE AND ASSESSED ASSESSEDANCE ASSESSED ASSESSEDANCE ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSEDANCE ASSESSEDANCE ASSESSEDANCE ASS			appenments) (person lapter and independent and the lapter tables)	The second control of	Lancace of the Control of the Contro
Print and Sign Name:	Address:					permanent perman	receit, primite in parameter physical in many provinces	and defend to see desired (Leavester)
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COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTOIN OFFICE OF OIL AND GAS MANAGEMENT

PERMIT APPLICATION TO DRILL AND OPERATE A CONVENTIONAL WELL Record of Notification

	Lastiaw # 3 Applicant Name Stonehaven Energy LLC
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ist the following. Surface latinowher, surface latinowhers and mark the foxes, "X to well will be drilled; adjacent municipality; gas storage operator if within 2000 feet. Mark the boxes, "X thrests. Use additional forms if you need more space. You are required to notify each of these parties. Iournation: Signature below name indicates the party's acknowledgement of ocation plat and serves as proof of notification.	ist the following. Surface failludwiler, surface fail dwifters and make the following. Surface fail dwift is a storage operator if within 2000 feet. Mark the boxes, "X," which show the parties is the surface of the s	Surface Landowner	Surtace Landowne & Water Purveyors <1000' Municipalities	Sent	Return Receipt	Address Affidavít	Written Consent
Pint Name: Ashland Township	Address: 328 Starr Road				NHOHO		
Signature	Knox, PA 16232		<	2/18/14	#1 IS1 17	The state of the s	The state of the s
Print Name: Robert & Ernestine Hoover	Address: 470 Heckathome Church Road Seneca, PA 16346		×	2/18/14	2/19/14		
Signature			And the second s		and the state of t		
Print Name:	Address:						
Signature			an a se and beginned the graph made to a second country of the plants of the second se				
Print Name:	Address:						Signatur, re-
Signature			derit i personale de communità i i i è compressione de communità i i i describiti del communità del		and the special section of the special sectin	A Control of the Cont	
Print Name:	Address:						
Signature							
Augusta de la companya de la company	Record of Written Consent			mittageprononeneneneteleteterumie	CACHE POLICE	Sporing	THE REAL PROPERTY AND PERSONS ASSESSED.
Written Consent: Signature below indicates the Check applicable box	Written Consent: Signature below indicates the party's approval of the well location, or indicates written consent and waives the Location period which applicable box Surface Owner Water Well within 200 feet Building with	men consent and somer Surface Owner	and walves the	Nater Well within 200 feet	200 feet B	Suilding within 200 feet	200 feet
Print and Sign Name: Address:	Date						
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COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTOIN OFFICE OF OIL AND GAS MANAGEMENT

PERMIT APPLICATION TO DRILL AND OPERATE A CONVENTIONAL WELL Record of Notification

	Applicant Name Stonehaven Energy LLC	DEP ID#
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					Ž	Note the means and attach proof.	attach proof.	
List the following: surface landowner, surface landowners and	List the following: surface landowners and water purveyors with water supplies within 1000 feet, municipality where		uers uers		Certified Mail Dates	ail Dates		
the well will be drilled; adjacent fruntopainty; gas storage uperator if which is covered 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 location plat and serves as proof of notification	the well will be drilled; adjacent municipanity, gas studyje operation in whall coor lear man are process. 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 Landowi	Surface Landow & Water Purveyc Alth water suppli	Municipalities	Sent	Return Receipt	Address Affdavit	Written Consent
Print Name: City of Oil City	Address: City Bldg. 21					7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		
Signature	Seneca Street Oil City, PA 16301	1	A DESCRIPTION OF THE PROPERTY	×	2/18/14	713/14	777	
Print Name: Complanter Township	Address: 136 Petroleum Center Road Oil City, PA 16301			×	2/18/14	2/19/14		
Signature			The second secon			And the state of t		And in case of the
Print Name: President Township	Address: 139 Henry's Bend Road Oil City, PA 16301			×	2/18/14	2/24/14		
Signature			A CHARLES AND A SECURE AND ASSESSMENT OF THE PERSON OF THE					
Print Name: Sugarcreek Township	Address: 212 Fox St. Franklin, PA 16323		4	×	2/18/14	2/19/14		
Signature		-	The second of th					
Print Name: Pinegrove Township	Address: 2758 S.R. 157. Venus, PA 16232			×	2/18/14	2/19/14		
Signature				_				
	Record of Written Consent	Conse	_	***************************************	man eed amalie eed dal part per bas marija manassa ee	HH REPORT I NOSEN/ATHENTERS I BARRES PARTON	менен и и и и и и и и и и и и и и и и и и	THE PROPERTY AND PERSONS ASSESSED.
Written Consent: Signature below indicates the party's approval of the check applicable box	the party's approval of the well location, or indicates written consent and waives the 15-day objection period where applicable.	ten consei	it and waives 1	he 15-da	y objection	period where a	applicable.	
		Surface	Surface Owner	Water	Water Well within 200 feet		Building within 200 feet	200 feet
Print and Sign Name: Address:	ss: Date							The state of the period of the
Print and Sign Name: Address:	ss; Date:							THE STATE OF THE S
Print and Sign Name: Address:	SS: Date:							***************************************
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Pennsylvania Fish & Boat Commission

Division of Environmental Services

Natural Gas Section 450 Robinson Lane Bellefonte, PA 16823

April 15, 2014

IN REPLY REFER TO

SIR# 42133

Jeremy Grahm Director of Operations Stonehaven Energy, LLC 1251 Waterfront Place, Suite 540 Pittsburgh, PA, 15222

RE: Species Impact Review (SIR) - Rare, Candidate, Threatened and Endangered Species

PNDI Search No. 20140217438552 Stonehaven Energy Mgmt. LLC. Latshaw # 9 Injection Well.

VENANGO County: Cranberry Township

Dear Grahm:

This responds to your inquiry about a Pennsylvania Natural Diversity Inventory (PNDI) Internet Database search "potential conflict" or a threatened and endangered species impact review. These projects are screened for potential conflicts with rare, candidate, threatened or endangered species under Pennsylvania Fish & Boat Commission jurisdiction (fish, reptiles, amphibians, aquatic invertebrates only) using the Pennsylvania Natural Diversity Inventory (PNDI) database and our own files. These species of special concern are listed under the Endangered Species Act of 1973, the Wild Resource Conservation Act, and the Pennsylvania Fish & Boat Code (Chapter 75), or the Wildlife Code.

Ken Anderson of my staff visited the site on April 10, 2014 and confirmed that wetlands on the site contain potential Eastern Massasauga (Sistrurus catenatus catenatus) habitat. However, since the proposed Brine Injection Disposal Well and the related monitoring wells will require no new earth disturbance and since precautionary measures will be in place to prevent accidental spills or releases of brine, I do not foresee the proposed project resulting in adverse impacts to the Eastern Massasauga (Sistrurus catenatus catenatus).

This response represents the most up-to-date summary of the PNDI data and our files and is valid for two (2) years from the date of this letter. An absence of recorded species information does not necessarily imply species absence. Our data files and the PNDI system are continuously being updated with species occurrence information. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered, and consultation shall be reinitiated.

Our Mission:

www.fish.state.pa.us

If you have any questions regarding this review, please contact Ken Anderson at 814-560-1201 and refer to the SIR # 42133. Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,

Heather A. Smiles, Chief Natural Gas Section

CC: Mr. Fox

HAS/KRA/dn



Pennsylvania Fish & Boat Commission

Division of Environmental Services
Natural Gas Section
450 Robinson Lane
Bellefonte, PA 16823

June 2, 2014

IN REPLY REFER TO SIR# 42133

FOX LAND SURVEYING Joe Fox 9161 U.S. 322 Cranberry, Pennsylvania 16319

RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species

PNDI Search No. 20140217438552 Stonehaven Energy Mgmt. LLC. Latshaw # 9 Injection Well.

VENANGO County: Cranberry Township

Dear Joe Fox:

This responds to your inquiry about a Pennsylvania Natural Diversity Inventory (PNDI) Internet Database search "potential conflict" or a threatened and endangered species impact review following the submission of minor changes to facilities on the well pad at the Latshaw #9 Injection Well site. These projects are screened for potential conflicts with rare, candidate, threatened or endangered species under Pennsylvania Fish & Boat Commission jurisdiction (fish, reptiles, amphibians, aquatic invertebrates only) using the Pennsylvania Natural Diversity Inventory (PNDI) database and our own files. These species of special concern are listed under the Endangered Species Act of 1973, the Wild Resource Conservation Act, and the Pennsylvania Fish & Boat Code (Chapter 75), or the Wildlife Code.

According to this submission and our records there have been no changes in the project footprint or on-site biological information; therefore, the Commission's comments regarding potential impacts to rare, candidate, threatened, or endangered species under our jurisdiction, as detailed in our letter of April 15th, 2014 for SIR#42133, remain unchanged.

This response represents the most up-to-date summary of the PNDI data and our files and is valid for two (2) years from the date of this letter. An absence of recorded species information does not necessarily imply species absence. Our data files and the PNDI system are continuously being updated with species occurrence information. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered, and consultation shall be reinitiated.

Our Mission:

www.fish.state.pa.us

If you have any questions regarding this review, please contact Ken Anderson at 814-560-1201 and refer to the SIR # 42133. Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,

Heather A. Smiles, Chief Natural Gas Section

Heather Smiles

HAS/KRA/dn



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

	DEP US	E ONLY
APS#		Site #
Permit #		Auth ID#

Coordination of a Well Location with Public Resources

We	ll Operator		DEP ID#	Well Farm Name and N	lumber		
Sto	onehaven Energy LLC			Latshaw # 9			
Add	dress			Project Number (if previ	iously assigned)		
12	51 Waterfront Place Suite	540					
City	1	State 2	Zip Code	County	Municipa	ity	
Pit	tsburgh	PA 1	15222	Venango	Cranbe	rry	
Pho	one	Fax		Latitude	Longitud	€	
41:	2-526-2919	412-391-7	220	N 41° 23′ 16.71	W 79 ^o	37 42.	75 ″
1.	Will the well be located in or wildlife area or Natural Nation			owned park, forest, gam	eland, designated	☐ Yes	⊠ No
2.	Will the well be located within	the corridor o	f a state or na	tional scenic river?		☐ Yes	⊠ No
							_
	Portions of the Allegheny Ridescriptions are available on						Detailed
	Portions of three other creek Rivers. These are: Pine Cre streams corridor maps are av-	ek in Tioga C	County, Lick R	un in Clinton County, an	nd Bear Creek in F	ayette Cou	inty. The
L							
3.	If answering "Yes" to question	ns 1 or 2, name	e the public re	source(s):			
					•		
	List the name, address and pl	hone number	of the person i	responsible for managem	ent of the public re	source.	
							
	Must the administrator of the site, access road, or gathering		e approve or o	otherwise authorize the p	roposed well, well	☐ Yes	□No
			oivod?			☐ Yes	□No
	Has the approval or authoriza	ation been rece	eivea <i>?</i>				
4.	Has the search of the propos (PNDI), or any other evaluation					⊠ Yes	□No
	If yes, provide PNDI Search N Results.	lumber <u>20140</u>	217438552 o	r attach a copy of the PN	DI Search		
	If a potential conflict with a sp agency.	ecies of conce	ern was identif		. i		
	Pennsylvania Fish and Boat C	Commission		Al	10 6/2/11	\.	
	Has the potential conflict beer	n resolved?			•	X Yes	⊠ No
5.	Will the well be located within state historic places?	200 feet of ar	ny historical or	archaeological sites liste	d as federal or	☐ Yes	⊠ No



Fox Land Surveying, 9161 U.S. 322 Cranberry, PA 16319 Joseph M. Fox, P.L.S. (814) 657-4361

Feb. 25, 2014

Department of Environmental Protection 230 Chestnut Street Meadville, PA 16335

Re: Non Coal well

Dear Sir / Madam

I have examined the Atlas of Preliminary Quadrangle Maps of Pennsylvania and have attached a copy with the well or wells spotted on the attached maps. As shown on the attached map there is no deep mineable coal in the area of the proposed wells. The attached map (Oil City Quad 1979) shows the well is located in the Pottsville Group formation. A formation not known for deep mineable coal.

Sincerely,

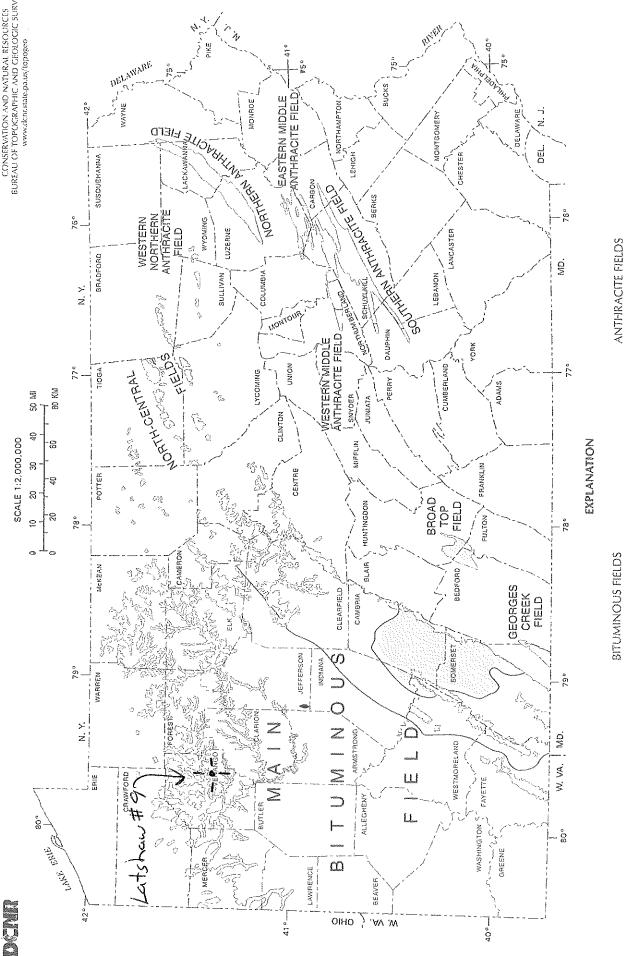
Joseph M. Fox

MAP11

DISTRIBUTION OF PENNSYLVANIA COALS

DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES BUREAU OF TOPOGRAPHIC AND GEOLOGIC SURVEY

COMMONWEALTH OF PENNSYLVANIA



Prepared by Bureau of Topographic and Geologic Survey. Third Edision, Revised, 2000; Third Princing, 2008.

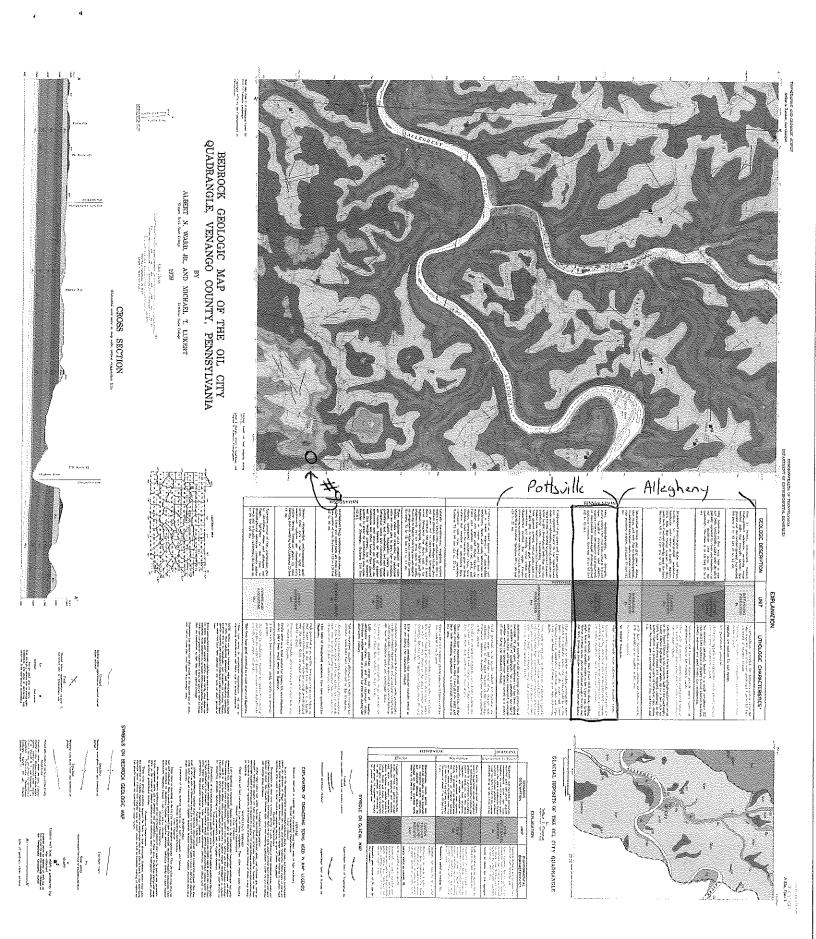
Anthracite

Semi-anthracite

Low-volatife bituminous coal

Medium-volatile bituminous coal

High-volatile bituminous coal



SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverso that we can return the card to you. Attach this card to the back of the mailpror on the front if space permits. Article Addressed to: Canplanter Sup. 136 Retrolum Center Cut Cuty Pa 10/301	biece, D. Is delivery address different from item 1? Yes If YES, enter delivery address below:
2. Article Number 20	☐ Certified Mail ☐ Express Mail ☐ Registered ☐ Return Receipt for Merchandise ☐ Insured Mail ☐ C.O.D. 4. Restricted Delivery? (Extra Fee) ☐ Yes 133 1090 0002 2032 9132
(Iransier from service (abel)	
3 Form 3811 , February 2004 D	Omestic Return Receipt 102595-02-M-1540
Complete items 1, 2, and 3. Also complete items 4 if Restricted Delivery is desired. Print your name and address on the revisor so that we can return the card to you. Attach this card to the back of the mails or on the front if space permits. 1. Article Addressed to: Present Lip 131 Henry Band Rd. Cic City, Ph. 14301	Perse Diece, Diece,
Oil City, Ph 14301	3. Service Type ☐ Certified Mail ☐ Express Mail ☐ Registered ☐ Return Receipt for Merchandise ☐ Insured Mail ☐ C.O.D. 4. Restricted Delivery? (Extra Fee) ☐ Yes
2. Article Number	7013 1090 0002 2032 9342.
(Transfer from service label)	
PS Form 3811, February 2004	Domestic Return Receipt 102595-02-M-1540
SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also completem 4 if Restricted Delivery is desired. Print your name and address on the reso that we can return the card to you. Attach this card to the back of the main or on the front if space permits. Article Addressed to: The gion Jup. 3758 S.R. 157	A. Signature X Authoriting Addressee B. Received by (Printed Name) C. Date of Delivery In NE Whit I ing 2 19 14 D. Is delivery address different from item 1? Yes If YES, enter delivery address below:
Venus, Pa 16364	3. Service Type A Certified Mail Registered Insured Mail C.O.D.
	4. Restricted Delivery? (Extra Fee) ☐ Yes
Article Number (Transfer from service label)	7013 1090 0002 2032 9649

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.	A. Signature A. Signature A. A. Signature A. A
Maurice a. Latshaw 471 Hickathorne Church Rd.	
Server, Pa 16344	3. Service Type ☑ Certified Mail ☐ Express Mail ☐ Registered ☐ Return Receipt for Merchandise ☐ Insured Mail ☐ C.O.D.
	4. Restricted Delivery? (Extra Fee) ☐ Yes
2. Article Number (Transfer from service label) 7013 1	E44F SE0S S000 0P01
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SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.	COMPLETE THIS SECTION ON DELIVERY A. Signature X Agent Addressee
SENDER: GOMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.	A. Signatore X. Agent A. Agent Addressee B. Received by (Printed Name) C. Date of Delivery C. Date of Delivery
SENDER: GOMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.	A. Signatore X. Agent A. Agent Addressee B. Received by (Printed Name) C. Date of Delivery C. Date of Delivery
SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.	A. Signature X. Agent Addressee B. Received by (Printed Name) D. Is delivery address different from item 1? Yes If YES, enter delivery address below: No 3. Service Type Certified Mail Express Mail Registered Return Receipt for Merchandise Insured Mail C.O.D.
SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. Article Addressed to: Robert 9. Ch. Ernestrine G. Horrer 470 Heckathare Church Rd. Server, Pa 16346.	A. Signature A. Signature A. Signature Addressee B. Received by (Printed Name) D. Is delivery address different from item 1? Yes If YES, enter delivery address below: No 3. Service Type Certified Mail Express Mail Registered Return Receipt for Merchandise



May 6, 2014

Mr. Jeremy Graham Stonehaven Energy LLC 1251 Waterfront Place, Suite 540 Pittsburgh, PA 15222

Re:

Extension of Review Period

Latshaw # 9

API No. 121-44484-00-01, AUTH ID No. 1017164

Cranberry Township, Venango County

Dear Mr. Graham:

The Pennsylvania Department of Environmental Protection (Department) is in the process of reviewing the Permit Application to Drill and Operate the above mentioned injection well. During the review it was necessary for the Department to request a Control and Disposal Plan, updates to map B3 (Map of Latshaw Lease Showing Proposed Injection Well # 9 and Wells # 12, # 15 and # 25 Penetrating Same Zone as Injection Well), and clarification of the location of brine storage tanks at the site. The Control and Disposal Plan and the updates to map B3 were received, but clarification of the location of brine storage tanks is still needed. Also, additional review time is needed due to the days allotted for the requested items to be submitted.

The Department must issue or deny the drilling permit within 45 days of submission of a permit application as required by Section 3211(e) of the 2012 Oil and Gas Act. In addition, the Department has the right to extend this period for 15 days for cause shown upon notification to the applicant of the reason for the extension. If you have any questions please contact Aaron O'Hara at the above telephone number.

Sincerely,

Brian Babb Permits Chief

Bureau of District Oil and Gas Operations

cc: File

Phone Contact Log

Date/Time: 4/8*/)2/	Permit Number(s): 13/ - 4/1/84
Company:	
Contact: Je Fox	
Phone: 814 657 436/	
Deficiencies Addressed:	
PNOI - Both wells	
Course + Distance to	Stover 8
Tanks off site?	A
Abandoned wells on 1	BD wot on B3 map
Inspector review w	ell construction
78.18 Conthal and Dispess	el pho
	,
Telany Granhan	412 526 2919
- PPC plan	
- Pranet layout	5/5/14 show call with Jevery
- extention letter	
5/6/14 south / ema	riled
Denial Date:	

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.

	I DED ID#		NAC II (France) NAC	1 141-11-14		C 1 - 14
Applicant / Well Operator Name	DEP ID#		Well (Farm) Name	Well#		Serial #
STONEHAVEN ENERGY LLC Surface Landowner / Lessor:			LATSHAW Angle & Course of Deviation (Drilling):	9 Anticipated True Ver	ficel	Anticipated Total
				Depth Feet (TVD):	uv@1	Measured Depth Feet (TMD):
MAURICE A. LATSHAW	1.7777.2.374.47.2.11		NONE	Drilled to 220		2206'
Target Formation(s):	24 CO. 11		Deepest Formation to be penetrated;	1	Total drilled	footage to be all laterals:
Drilled to speechley formation	on		SPEECHLEY	laterals: O		N/A
Surface Owner/Water Purveyor w/Water Supply within 1	000'/3000'		Latitude Longitude	of Water Supply		
A CANADA LA COMPANIA DE COMPAN						
		CONTRACTOR OF THE STATE OF THE				
MAURICE A. LATSHAW		40 Carate Pro-	41 23 19.	29 79 37 4	6.56) ~,
ROBERT J. & ERNESTINE A. HOOVER	}		41 23 20.10 79 37 30.55			
ROBERT J. & ERNESTINE A. HOOVER	1		41 23 20.28 79 37 30.57			
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				· · · · · · · · · · · · · · · · · · ·		
Municipality: where the well will be drilled,		***************************************	Municipality: where the			
adjacent to the well, or within 3000 feet			adjacent to the well,	or within 3000 fee	t .	
CRANBERRY TWP., VENANGO CO.			ASHLAND TWP	., Clarion co.		
ROCKLAND TWP., VENANGO CO.			WOOD OF CONTINUING THE STATE O		······································	
Sandycreek Twp., Venango Co.				,		
CITY OF FRANKLIN			Coal related	d parties		
Sugar Creek Twp., Venango Co	•				*******	
CITY OF OIL CITY						
Cornplanter Twp., Venango Co).					**************************************
PRESIDENT TWP., VENANGO CO.						
PINEGROVE TWP., VENANGO CO.						

1. PROJECT INFORMATION

Project Name: Latshaw #9

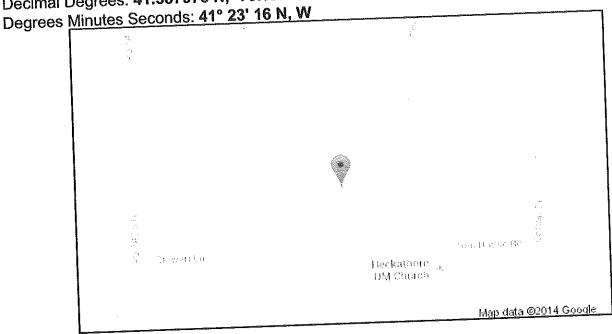
Date of review: 2/17/2014 3:59:38 PM

Project Category: Energy Storage, Production, and Transfer, Energy Production

(generation),Oil or Gas - new wells, expansion of well field

Project Area: N/A

County: Venango Township/Municipality: Cranberry Quadrangle Name: OIL CITY ~ ZIP Code: 16346 Decimal Degrees: 41.387975 N, -79.628541 W



2. SEARCH RESULTS

	2. SEARCH RESULIS		D
	Agency	Results	Response
/	PA Game Commission	No Known Impact	No Further Review Required
· /	PA Department of Conservation	No Known Impact	No Further Review Required
	and Natural Resources		DEVIEW IS DECILIRED
	PA Fish and Boat Commission	Potential Impact	FURTHER REVIEW IS REQUIRED,
,	PA FISH and Boat Commons		See Agency Response
/	U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

Project Search ID: 20140217438552

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

PA Game Commission

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission

RESPONSE: Further review of this project is necessary to resolve the potential impacts(s). Please send project information to this agency for review (see WHAT TO SEND).

PFBC Species: (Note: The PNDI tool is a primary screening tool, and a desktop review may

reveal more or fewer species than what is listed below.)

Scientific Name: Sensitive Species**

Common Name:

Current Status: Endangered Proposed Status: Endangered

U.S. Fish and Wildlife Service

RESPONSE: No impacts to <u>federally</u> listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.* is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

^{*} Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

Project Search ID: 20140217438552

** Sensitive Species - Species identified by the jurisdictinal agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, send the following information to the agency(s) seeking this information (see AGENCY CONTACT INFORMATION).

Check-list of Minimum Materials to be submitted:
SIGNED copy of this Project Environmental Review Receipt Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted. Project location information (name of USGS Quadrangle, Township/Mu?icipality, and County) USGS 7.5-minute Quadrangle with project boundary clearly indicated, and quad name on the map
The inclusion of the following information may expedite the review process. A basic site plan(particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.) Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos) Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. For cases where a "Potential Impact" to threatened and endangered species has been identified before the application has been submitted to DEP, the application should not be submitted until the impact has been resolved. For cases where "Potential Impact" to special concern species and resources has been identified before the application has been submitted, the application should be submitted to DEP along with the PNDI receipt. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. DEP and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at http://www.naturalheritage.state.pa.us.

PNDI Project Environmental Review Receipt

Project Search ID: 20140217438552

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a **preliminary** screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section 400 Market Street, PO Box 8552, Harrisburg, PA. 17105-8552

Fax:(717) 772-0271

PA Fish and Boat Commission

Division of Environmental Services 450 Robinson Lane, Bellefonte, PA. 16823-7437 NO Faxes Please

applicant/project proponent signature

U.S. Fish and Wildlife Service

Endangered Species Section 315 South Allen Street, Suite 322, State College, PA. 16801-4851 NO Faxes Please.

PA Game Commission

date

Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat Protection
2001 Elmerton Avenue, Harrisburg, PA. 17110-9797
Fax:(717) 787-6957

7. PROJECT CONTACT INFORMATION

Name: Soc Fox Company/Business Name: Fox Lend Surveying Address: 9/6/ U.S. 528 City, State, Zip: Createry, CA 16319 Phone: (F/Y) 657 456/ Fax: (
8. CERTIFICATION I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

8000-PM-00GMOO2 4/2012

Pennsylvania DEPARTMENT OF DAY-PORMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION Oil and Gas Management Program

WELL LOCATION PLAT

DEP	DEP Application Tracking #	G:
USE	Permit#	C;
ONLY	Project#	

