

#### west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

March 05, 2013

#### WELL WORK PERMIT

#### Horizontal 6A Well

This permit, API Well Number: 47-5101605, issued to TRANS ENERGY, INC., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, well operators report of well work, is to be submitted to this office within 90 days of completion of drilling, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin Chief

Operator's Well No: GOSHORN 4H

Farm Name: TIMOTHY JAMES HUBBS TRUST

API Well Number: 47-5101605

Permit Type: Horizontal 6A Well

Date Issued: 03/05/2013

Promoting a healthy environment.

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#### **PERMIT CONDITIONS**

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

#### **CONDITIONS**

- 1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 2. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the fill material shall be within plus or minus 2% (unless soil test results show a greater range of moisture content is appropriate and 95% compaction can still be achieved) of the optimum moisture content as determined by the standard proctor density test, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort. Each lift must meet 95% compaction of the optimum density based on results from the standard proctor density test of the actual soils used in specific engineered fill sites. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 3. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 4. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 5. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS W.VA. CODE §22-6A - WELL WORK PERMIT APPLICATION

1) Well Opera	tor: Trans Ene	ergy Inc.		494481575	Marshall	Liberty	Cameron
				Operator ID	County	District	Quadrangle
2) Operator's	Well Number	Goshorn 4	Н	,	Well Pad Nar	me: Goshorn	
3 Elevation, c	urrent ground	d: 1308	El	evation, proposed	post-constru	ction:	1308'
4) Well Type:	(a) Gas		Oil				
,	Other						
	(b) If Gas:	Shallow		Deep			
		Horizonta	1 -			-	
5) Evictica Da	40 W N-						
5) Existing Pa	d? Yes or No	Yes Yes					
6) Proposed T	arget Formati	ion(s), Deptl	h(s), Anticipat	ed Thicknesses ar	nd Associated	d Pressure(s):	
Marcellus Shale,	7200', 60' thickness	and 3000 psi					
7) Proposed T	otal Vertical	Depth:	7200'				
B) Formation a			Marcellus Shale				
9) Proposed T		Committee of the Commit	12,700				
<ol><li>10) Approxim</li></ol>	ate Fresh Wa	ter Strata De	epths: 15	50', 280'			
11) Method to	Determine F	resh Water I	Depth: In	formation received from th	e Marshall County	Health Dept.	
12) Approxim	ate Saltwater	Depths:	1500'				
13) Approxim			1033'				
			id (coal mine,	karst, other):	1035' Bailey M	fine	
				it to, active mine?			
16) Describe p				norizontal well in the Marce		o be approximately 5	5500' in length
If Mine void is end	counter, please see a						
-							
17) Describe f	racturing/stim	nulating met	hods in detail	:			
				to stimulate the Marcellus	Shale		
18) Total area	to be disturbe	ed, including	g roads, stockp	oile area, pits, etc,	(acres):	4.00 acres	
19) Area to be	disturbed for	well nad or	ilv. less acces	s road (acres):	2.85 acre	e	
,		pau oi	,, 1000 40003	. oud (doles).	Z.00 acre		
					04	RECEIVED	
					Omc	e of Oil and	d Gas

FEB 1 3 2013

WV Department of Environmental Protection



February 15, 2013

Ms. Laura Cooper West Virginia DEP 601 57<sup>th</sup> Street Charleston, WV 25304

Re: Void Encounter Goshorn 4H 5101605 11/19/2012 Wednesday 2/13/2013

Dear Laura,

In follow up to the above email, referencing Item 2, Bailey Mine, if encountered we will run casing no deeper than 50' beyond the void and set a basket as the ceiling and at the bottom and grout/cement, and we will notify the inspector immediately.

We are also adding additional language as per the state; that we will to go at least 30' beyond. (§22-6-20 "When a well is drilled through the horizon of a coal bed from which the coal has been removed, the hole shall be drilled at least thirty feet below the coal bed...")

Once you have reviewed and would have any questions regarding this permit please feel free contact me at 304-684-7053 ext. 26 or Leslie Gearhart at ext. 32

As always thank you for your help in these matters.

RECEIVED
Office of Oil and Gas

Sincerely yours,

Trans Energy Incorporated

FEB 1 3 2013

WV Department of Environmental Protection

Debra A. Martin Land Administrator

DM/dm

210 2<sup>nd</sup> Street, P.O. Box 393 St. Marys, WV 26170 304.684.7053 Fax 304.684.3658 www.transenergyinc.com

#### 20)

#### CASING AND TUBING PROGRAM

TYPE	Size	New or Used	Grade	Weight per ft.	FOOTAGE: For Drilling	INTERVALS: Left in Well	CEMENT: Fill -up (Cu. Ft.)
Conductor	20	New	J-55	94	40'	40'	To Surface
Fresh Water	13-3/8	New	J-55	54.5	1100'	1100' 🗸	To Surface
Coal							
Intermediate	9 5/8	New	J-55	36	3000'	3000' 🗸	To Surface
Production	5 1/2	New	P-110	20		12700' 🗸	To Surface
Tubing							
Liners							

DMH 9-27-12

TYPE	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield
Conductor	20	26	0.438	1530	Type I	13 cu ft/sk
Fresh Water	13-3/8	17-1/2	0.38	2730	Type I	1.25 cu ft/sk
Coal						
Intermediate	9-5/8	12-1/2	.352	3520	Type I	1.26 cu ft/sk
Production	5-1/2	8-3/4	.361	12630	Poz H Class H	1.18 cu ft/sk
Tubing						
Liners						

#### **PACKERS**

Kind:	N/A	RECEIVED
Sizes:		Timice of Oil & Gaa
Depths Set:		OCT 0 1 2012



1) Describe centralizer placement for each casing string.	
Fresh water string - 1 centralizer every 160'	
Intermediate string - 1 centralizer every 100' from 3300' to 90	0'
Production string - 1 centralizer every 80' from TD to above R	ROP (7000')
2) Describe all cement additives associated with each ceme	ent type.
Standard Type I cement - retarder and fluid loss (surface and	
Class H in lateral - retarder and fluid loss and free water addit	
1	
Type 1 +2% CaCl2 + Y4# Flake - Surface Cement mixed @ 1	5.6 ppg CaCl2, Flake (cellophane flake)
Type 1 + 1% CaCl2 + Y4# Flake - Intermediate Cement mixed	
3) Proposed borehole conditioning procedures.	
Before cement casing mud will be thinned and all gas will be	circulated out of the mud before cementing
ote: Attach additional sheets as needed.	
and and the shorts as needed.	DECENIED.

RECEIVED
Office of Oil and Gas

FEB 1 3 2013

WV Department of Environmental Protection

### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

## CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name_Trans Energy Inc.		OP Code 4944	81575
Watershed_Left Fork of Maggoty Run	Quadrar	igle Cameron	
Elevation 1308'	County_Marshall	District_Liber	ty
Description of anticipated Pit Waste: N/A			
Do you anticipate using more than 5,000 bb	ols of water to complete the prop	oosed well work? Yes	x No
	No Pit If so, what n		
Proposed Disposal Method For Treated Pit Land Application Underground Inj Reuse (at API N Off Site Disposa	Wastes: n ection ( UIC Permit Number_	osal location)	haul to an approved water disposal facilities.
Drilling medium anticipated for this well?		Freshwater mud until reaching	ng Marcellus then synthetic
-If oil based, what type? Synthetic	, petroleum, etc. synthetic		
Additives to be used? See Attached Will closed loop system be used? Yes			
Drill cuttings disposal method? Leave in pi  -If left in pit and plan to solidify w  -Landfill or offsite name/permit nu	it, landfill, removed offsite, etc.	ent, lime, No Pit	approved landfill
on August 1, 2005, by the Office of Oil and provisions of the permit are enforceable by or regulation can lead to enforcement action	d Gas of the West Virginia Dep law. Violations of any term or in at I have personally examined or and that, based on my inquiry ation is true, accurate, and compossibility of fine or imprisonm	artment of Environmenta condition of the general and am familiar with of those individuals im- applete. I am aware that	permit and/or other applicable law the information submitted on this mediately responsible for obtaining
Subscribed and sworn before me this	Weren	Notary Pu	Blblic
My commission expires 11/29/2020	Trans	OFFICIAL SEAL  OFFICIAL SEAL  OTARY PUBLIC  Debra A. Martin  Energy Incorporated  210 2nd Street  Mary's, WY 26170  Ission Expires Nov. 29, 2020	

Property Boundary		Diversion	
Road	=======	☐ Spring	<b>○</b>
Existing Fence	xxxx_	Wet Spot	Ö
Planned Fence		Drain Pipe w/ size in inches	—(12) — <b>—</b>
Stream	~>~>	Waterway -	
Open Ditch	>>>_		
Rock	్రా ద్వార్కార్త	Cross Drain Z777777	
	<b>↑</b>	Artificial Filter Strip XXXXXX	ATTTE .
North	N	Pit: Cut Walls	Sundanee
Buildings		Pit: Compacted Fill Walls	murtung
Water Wells	w	Area for Land Application of Pit Waste	0-0-0-0
Drill Sites	$\oplus$		
Proposed Revegetation Tre	eatment: Acres Disturbed Location	2.85 Road - 1.15 = Total 4.00 Prevegetatio	n pH
	Tons/acre or to correct to		
Fertilizer (10-20-2	20 or equivalent) 600	_lbs/acre (500 lbs minimum)	
Mulch 90 Bales	To	ons/acre	
		Seed Mixtures	
		Seca Minimus	A II
	Area I lbs/acre	Seed Type	Area II lbs/acre
Seed Type		Meadow Mix	100
Meadow Mix	100	INEAGOW IVIIA	
Oats or Rye	50	Oats or Rye	50
			160
Attach:		1 17 2	
Drawing(s) of road, locati	on,pit and proposed area for land	application.	
Photocopied section of inv	volved 7.5' topographic sheet.		
	1		
Plan Approved by:			
Comments:			
			RECEIVED
		10	Office of Oil & Goo
Title: Oil + has	Incoester	Date: 9-27-10	OCT 0 1 2012
Title: 01 + 695	( ( ) ( )	) No	OCT O I ZOIZ
Field Reviewed?	() Yes (		WVCarcamentof
			Environmental Profession

09/26/2012

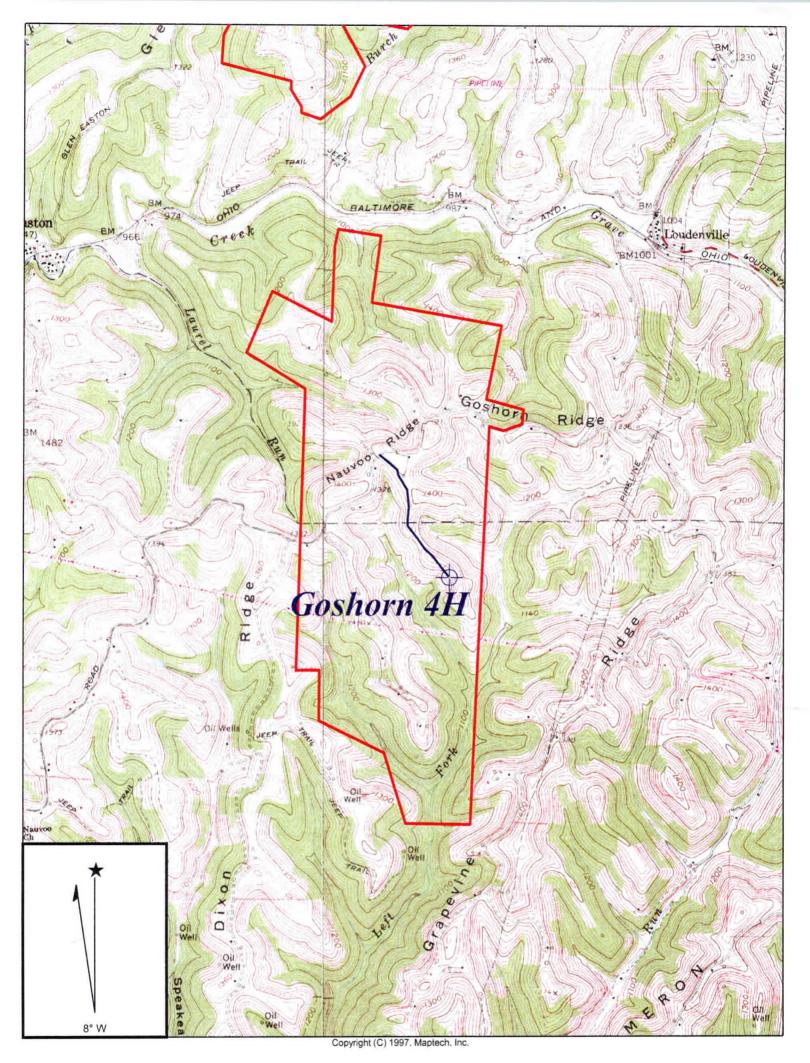
## TRANS ENERGY INC.

PM4 9-27-17



WELL SITE SAFETY PLAN Goshorn 4H 2012





51-01605 HGA

#### **CAMERON QUADRANGLE**

SCALE 1" = 2000'

## TRANS ENERGY, INC.

WELL: GOSHORN 4H RIDGE LLC 937 ACRE LEASE GOSHORN RIDGE LLC

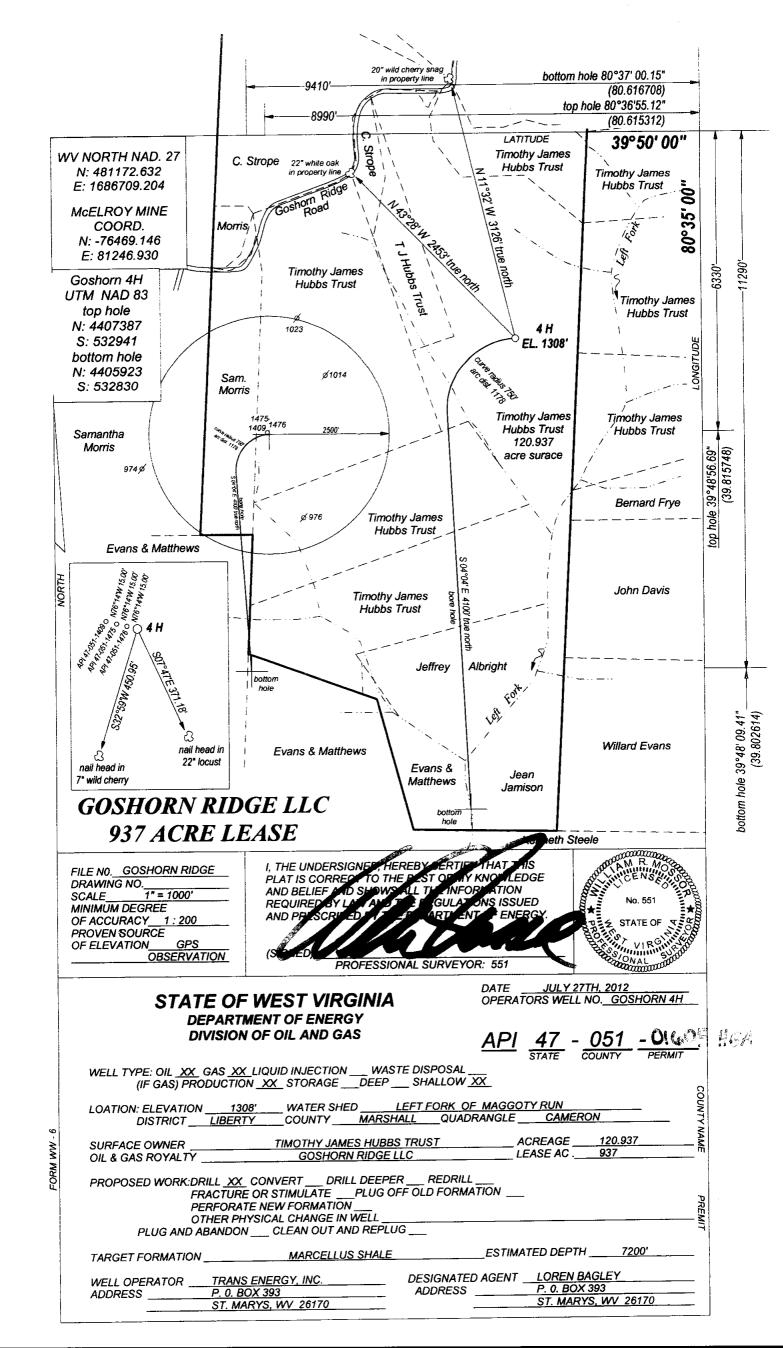
**WEST VIRGINIA** 

RECEIVED

OCT 0 1 2012

MARSHALL COUNTY LIBERTY DISTRICT

FARM NAME: TIMOTHY JAMES HUBBS TRUST



#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE CERTIFICATION

Date of Notic	ce Certification:		API No. 47- 51 - 01605 Operator's Well No. Goshom 4H			
				ame: Goshorn	1141)	
Notice has b	been given:	A, the Operator has provided the required parties with the Notice Forms listed				
below for the	tract of land as follows:					
State:	West Virginia		Easting:	532941		
County:	Marshall	- UTWINAD 65	Northing:	4407387		
District:	Liberty	Public Road Acces		Co Rt 62 Goshorn	Ridge Road	
Quadrangle:	Cameron	Generally used far	m name:	Goshorn		
Watershed:	Left Fork of Maggoty Run	_				
it has provid information r of giving the requirements Virginia Cod	the secretary, shall be verified and shall colled the owners of the surface described in required by subsections (b) and (c), section securified owner notice of entry to survey per of subsection (b), section sixteen of this le § 22-6A-11(b), the applicant shall tender that have been completed by the applicant.	subdivisions (1), (2) an sixteen of this article; (ii) pursuant to subsection (a article were waived in )	that the re a), section writing by	quirement was a ten of this artic the surface ow	deemed satisfied as a result le six-a; or (iii) the notice ner; and Pursuant to West	
that the Op	West Virginia Code § 22-6A, the Operator erator has properly served the required part IECK ALL THAT APPLY	r has attached proof to the ies with the following:	is Notice C	Certification	OOG OFFICE USE ONLY	
☐ 1. NO	OTICE OF SEISMIC ACTIVITY OF SEIS	NOTICE NOT REQUIR SMIC ACTIVITY WAS	CONDUC	USE NO CTED	RECEIVED/ NOT REQUIRED	
■ 2. NO	OTICE OF ENTRY FOR PLAT SURVEY	or NO PLAT SURVI	EY WAS C	ONDUCTED	RECEIVED	
■ 3. NO	NO.	NOTICE NOT REQUIF TICE OF ENTRY FOR I AS CONDUCTED or			RECEIVED/ NOT REQUIRED	
		WRITTEN WAIVER (PLEASE ATTACH)		ACE OWNER		
■ 4. NO	OTICE OF PLANNED OPERATION				RECEIVED	
■ 5. PU	JBLIC NOTICE				☑ RECEIVED	

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

VIV Decorment of En Importal Protection

Notary Public

#### Certification of Notice is hereby given:

, have read and understand the notice requirements within West Virginia Code § 22-THEREFORE, I Leslie Gearhart 6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator: Trans Energy Inc Leslie Gearhart By:

**VP** - Operations Its:

Telephone: 304-684-7053

O 2nd Street, P Q Box 393, St. Marys, WV 26170 Address:

Facelmile: 304-684-3658

debbiemartin@transenergyinc.com and lesliegearhart @transenergyinc.com Email:

NOTA OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Debra A. Martin
Trans Energy Incorporated
210 2nd Street
St. Mary's, WV 26170
My Commission Expires Nov. 29, 2020

day of September 2012 Subscribed and sworn before me this 25

Debra A. Martin

My Commission Expires 11/29/2020

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



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API NO. 47- 51- 01605
OPERATOR WELL NO. Goshom 4H
Well Pad Name: Goshom

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

	ce Time Requirement: notice shall be provided no later that e of Notice: 9/27/12 Date Permit Application Filed:	n the filing date of permit application.
Noti	ce of:	
	PERMIT FOR ANY WELL WORK  CONSTRUCTION OF A	ROVAL FOR THE AN IMPOUNDMENT OR PIT
Deli	very method pursuant to West Virginia Code § 22-6A-10	(b)
		OD OF DELIVERY THAT REQUIRES A PT OR SIGNATURE CONFIRMATION
or beeros own tractor or or this [sic] gas enla surfathou anin mor land main contractor.	y registered mail or by any method of delivery that required on and sediment control plan required by section seven of the serior of the surface of the tract on which the well is contracts overlying the oil and gas leasehold being develope ther land disturbance as described in the erosion and sedime article; (3) The coal owner, operator or lessee, in the event is known to be underlain by one or more coal seams; (4) The leasehold being developed by the proposed well work, regement, alteration, repair, removal or abandonment of any is accowner or water purveyor who is known to the applicant usand five hundred feet of the center of the well pad which hals; and (6) The operator of any natural gas storage field we than three tenants in common or other co-owners of interest, the applicant may serve the documents required upon	
	SURFACE OWNER(s)	COAL OWNER OR LESSEE
	ne: _Timothy James Tubbs Trust lress: RR 5 Box 576	Name: Consol/Leatherwood Inc. c/o Doug Puglin CNX Address: 1000 Consol Drive
	eron, WV 26033	Cannonsburg, PA 15317
Nan	ne:	
Add	lress:	☐ COAL OPERATOR
		Name:
	SURFACE OWNER(s) (Road and/or Other Disturbance)	Address:
	ne: Same as above	
	dress:	☐ WATER PURVEYOR(s)
		Name:
Nan	ne:	Address:
Add	dress:	Office
□ Nar	SURFACE OWNER(s) (Impoundments/Pits) ne:	OPERATOR OF ANY NATURAL GAS STORAGE  FIELD  Name:  OCT 0 1 2012
Add	dress:	Address:
		*Please attach additional forms if necessary

API NO. 47-51 - 01605

OPERATOR WELL NO. Goshom 4H

Well Pad Name: Goshom

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

#### This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall also include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a>.

#### Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well.

#### Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments.

#### **Well Location Restrictions**

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

WW-6A (1-12)

API NO. 47-51-0605
OPERATOR WELL NO. Goshorn 4H
Well Pad Name: Goshorn

#### Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas Department of Environmental Protection 601 57<sup>th</sup> St. SE Charleston, WV 25304 (304) 926-0450

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

#### Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have THIRTY (30) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

#### **Comment Requirements**

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

#### Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Environmental Oran

WW-6A (1-12)

API NO. 47-51-0165
OPERATOR WELL NO. Goshorn 4H
Well Pad Name: Goshorn

BT				1
Notice	IS	nereby	given	DV:

Well Operator: Trans Energy Inc.

Telephone: 304-684-7053

Email: debbiemartin@transenergyinc.com and lesilegearhart @transenergyinc.com

Address: 210 2nd Street, P O Box 393, St. Marys, WV 26170

Facsimile: 304-684-3658

#### Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at <a href="mailto:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

RECEIVED
Office of Oil & Gas

OCT 0 1 2012

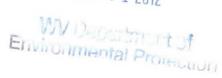
WW-6A5 (1/12)

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

otice Time Roate of Notice:	equirement: notice shall be provided no late  Date Permit Applic	r than the filing date of permit a ation Filed:	application.
elivery metho	od pursuant to West Virginia Code § 22-6	A-16(c)	
CERTIFI	ED MAIL	ND	
RETURN	RECEIPT REQUESTED DE	LIVERY	
eturn receipt re he planned op equired to be partified to be p	Va. Code § 22-6A-16(c), no later than the equested or hand delivery, give the surface of eration. The notice required by this subsection (b), section ten of this prizontal well; and (3) A proposed surface of surface affected by oil and gas operations to be required by this section shall be given to the	extraction shall include: (1) A copy of article to a surface owner whose use and compensation agreement	of this code section; (2) The information e land will be used in conjunction with the t containing an offer of compensation for pensable under article six-b of this chapter.
lotice is here	by provided to the SURFACE OWNER(s) listed in the records of the sheriff at the time	of notice):	
at the address	ames Hubbs Trust		
Name: Timothy Ja	ames Hubbs Trust		
Name: Timothy Ja Address: RR 5 E Cameron, WV 2603	by given:	Address:	well operator has developed a planned
Name: Timothy Ja Address: RR 5 E Cameron, WV 2603 Notice is here Pursuant to Wopperation on to State: County:	by given: est Virginia Code § 22-6A-16(c), notice is he surface owner's land for the purpose of di West Virginia Marshall	Address:  Address:  Address:  Areby given that the undersigned willing a horizontal well on the transport to	well operator has developed a planned
Name: Timothy Ja Address: RR 5 E Cameron, WV 2603 Notice is here Pursuant to Woperation on the State: County: District:	by given: est Virginia Code § 22-6A-16(c), notice is he surface owner's land for the purpose of di West Virginia  Marshall  Liberty	Address:  are by given that the undersigned rilling a horizontal well on the trace that the undersigned will be a string:  UTM NAD 83 Easting: Northing:	well operator has developed a planned act of land as follows:  532941  4407387
Name: Timothy Ja Address: RR 5 E Cameron, WV 2603	by given: est Virginia Code § 22-6A-16(c), notice is he surface owner's land for the purpose of di West Virginia Marshall	Address:  Address:  Address:  Areby given that the undersigned willing a horizontal well on the transport to	well operator has developed a planned act of land as follows:  532941  4407387  Co Rt 62 Goshorn Ridge Road
Name: Timothy Ja Address: RR 5 E Cameron, WV 2603  Notice is here Pursuant to Wo operation on t State: County: District: Quadrangle: Watershed:  This Notice S Pursuant to W to be provide horizontal we surface affect	by given: est Virginia Code § 22-6A-16(c), notice is he surface owner's land for the purpose of di West Virginia  Marshall  Liberty  Cameron  Left Fork of Maggoty Run  Hall Include: est Virginia Code § 22-6A-16(c), this notice of divided by W. Va. Code § 22-6A-10(b) to a surface use and competed by oil and gas operations to the extent the elated to horizontal drilling may be obtained located at 601 57th Street, SE, Charlest	Address:  Easting:  Northing:  Northing:  Public Road Access:  Generally used farm name:  Address:  Easting:  Address:  Addres	well operator has developed a planned act of land as follows:  532941  4407387  Co Rt 62 Goshorn Ridge Road  Goshorn
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The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at <a href="mailto:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

OCT 0 1 2012



51-61605 app nec. 10-19-12





#### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION SEP 1 2 2012

**Division of Highways** 

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

Paul A. Mattox, Jr., P. E.
Secretary of Transportation/
Commissioner of Highways

Earl Ray Tomblin Governor

September 7, 2012

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57<sup>th</sup> Street, SE Charleston, WV 25304

Subject: DOH Permit for the

Goshorn 4H Well Site, Marshall County

Dear Dr. Martin,

This well site will be accessed from a Permit to be requested by Trans Energy, Inc. for access to the State Road for a well site located between Marshall County Route 62 SLS & 25/1 SLS. A DOH permit to enter upon State Right of Way for a commercial driveway is to applied for and approved before beginning site work.

The operator has signed a DISTRICT WIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Yang K. Clayter

Gary K. Clayton

Regional Maintenance Engineer

Central Office Oil & Gas Coordinator

Cc: Leslie Gearhart P.O. Box 393

St. Marys, WV 26170

TransEnergy, Inc. CH, CHH, OM, D-4

File



#### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

Paul A. Mattox, Jr., P. E. Secretary of Transportation/ Commissioner of Highways

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Earl Ray Tomblin

Governor

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Gary K. Clayton

Regional Maintenance Engineer Central Office Oil & Gas Coordinator

Cc: Leslie Gearhart P.O. Box 393

> St. Marys, WV 26170 TransEnergy, Inc.

СH, СНН, ОМ, D-4

File

OCT 0 1 2012

WV Department of Environmental Organia

Attachment V - Planned Additives to be used in Fracturing or Stimulations

Product Name	Product Use	Chemical Name	CAS Number
	AT . 4	Didecyl Dimethyl Ammonium Chloride	007173-51-1
		Ethanol	000064-17-5
ALPHA 1427		Glutaraldehyde (Pentanediol)	000111-30-8
		Quaternary Ammonium Compound	068424-85-1
	* * # L.	Water	007732-18-5
BF-7L	Buffer	Potassium Carbonate	000584-08-7
		Choline Chloride	000067-48-1
ClayCare	Clay Stabilizer	Water	007732-18-5
Enzyme G-l	Breaker	No Hazardous Components	NONE
ENZYME G-NE	Breaker	No Hazardous Components	NONE
FRW-18	Friction Reducer	Petroleum Distillate Hydrotreated Light	064742-47-8
		Petroleum Distillate Blend	N/A-014
GW-3LDF	Gel	Polysaccharide Blend	N/A-021
		Diethylene Glycol	000111-46-6
SCALETROL 720	Scale Inhibitor	Ethylene Glycol	000107-21-1
		Boric Acid	010043-35-3
XLW-32	Crosslinker	Methanol (Methyl Alcohol)	000067-56-1
APB01 (AMMONIUM PERSUFATE BREAKER)	Breaker	Ammonium Persulfate	007727-54-0
B05 (LOW PH BUFFER)	Buffer	Acetic acid	000064-19-7
BXL03 Borate XL Delayed High Temp	Crosslinker	No Hazardous Components	NONE
FRW-200	Friction Reducer	No Hazardous Components	NONE
HVG01 (TURQUOISE-1 BULK)	Gelling Agent	Tryurou cateu Ligiti	064742-47-
KCLS-4	Clay Stabilize	No Hazardous Components	NONE
LTB=1	Breaker	Ammonium Persulfate	N/A
		Ethanol	000064-17-

Office of Cil & Co

OCT 0 1 2012

Elizabeth

14

EC6110A	Riocide	Glutaraldehyde (Pentanediol)	000111-30-8
		Quaternary Ammonium Compounds	N/A-063
EC6629A	Biocide	No Hazardous Components	NONE
WBK-133 OXIDIZER	Breaker	Ammonium Persulfate	007727-54-0
WBK-134	Breaker	Ammonium Persulfate	007727-54-0
		Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7
WCS-631LC	Clay Stabilizar	Proprietary Non Hazardous Salt	N/A-229
		Water	007732-18-5
WFR-55LA	Friction Reducer	No Hazardous Components	NONE
WGA-15L	Gel	Petroleum Distillate Hydrotreated Light	064742-47-8
WPB-584-L	Buffer	Potassium Carbonate	000584-08-7
		Potassium Hydroxide	001310-58-3
WXL-101LE	Corsslinker	No Hazardous Components	NONE
WXL-101LM	Crosslinker	Petroleum Distillate Hydrotreated Light	064742-47-8
WXL-105L	Crosslinker	Water	007732-18-5
		Ethylene Glycol	000107-21-1
		Boric Acid	010043-35-3
		Ethanolamine	000141-43-5
B244 Green-Cide 25G	Biocide	Glutaraldehyde	111-30-8
L071 Temporary Clay Stabilizer	Clay Stabilizer	Cholinium Chloride	67-48-1
Breaker J218	Breaker	Diammonium Peroxidisulphate	7727-54-0
EB-Clean* J475 Breaker		Diammonium Peroxidisulphate	7727-54-0
Friction Reducer B315	Friction Reducer	Distillates (petroleum), Hydrotreated light Aliphatic Alcohol Glycol Ether	64742-47-8 Proprietary
Friction Reducer J609		Ammonium Sulfate	7783-20-2
Water Gelling Agent J580	Gel	Carbohydrate Polymer	Proprietary
Scale Inhibitor B317	Scale Inhibitor	Trisodium ortho phosphate Ethane-1, 2-diol	7601-54-9 107-21-1
Borate Crosslinker J532	Crosslinker	Aliphatic polyol Sodium tetraborate decahydrate	Proprietary 130 96-4
Crosslinker J610		Aliphatic polyol Potassium hydroxide	Proprietary 131 58-3

