

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

January 15, 2016

WELL WORK PERMIT Horizontal 6A Well

This permit, API Well Number: 47-3305873, issued to TRIANA ENERGY, LLC, 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 completion of permitted well work, 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.

Operator's Well No: BRENNAN 3H

Farm Name: JANICE BRENNAN, TRUST A

API Well Number: 47-3305873

Permit Type: Horizontal 6A Well

Date Issued: 01/15/2016

API Number: 47 0 5 5 0 5 6 7 3

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. <u>Failure to adhere to the specified permit</u> conditions may result in enforcement action.

CONDITIONS

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. 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 one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. 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.
- 4. 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.
- 5. 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.
- 6. 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.
- 7. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
- 9. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.



west virginia department of environmental protection

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

ORDER ISSUED UNDER WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 6A

TO: Triana Energy, LLC 900 Virginia St. East, Suite 400 Charleston WV, 25301 DATE: January 13, 2016 ORDER NO.: 2016-W-1

INTRODUCTION

This Order (hereinafter "Order") is issued by the Office of Oil and Gas (hereinafter "OOG"), by and through its Chief, pursuant to the authority of W. Va. Code §§ 22-1-1, 22-6-1 and 22-6A-1 *et seq*. to Triana Energy LLC (hereinafter "Triana" or "Operator"), collectively the "Parties."

FINDINGS OF THE CHIEF

In support of this Order, the Chief hereby finds the following:

- 1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 *et seq.*, and the rules and regulations promulgated thereunder.
- 2. Triana is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as 900 Virginia St. East, Suite 400, Charleston, West Virginia.
- 3. On August 5, 2015, Triana submitted a well work permit application identified as API# 47-033-05873. The proposed well is to be located on the Brennan Pad in Clay District of Harrison County, West Virginia.
- 4. On November 3, 2015, Triana requested a waiver for Wetland W, as outlined in Attachment 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-033-05873.

CONCLUSIONS OF LAW

- 1. West Virginia Code §22-1-6(d) requires, in part, that "[i]n addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to...(3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing."
- 2. West Virginia Code §22-6A-2(a)(6) requires, in part, that "Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter."
- 3. West Virginia Code §22-6A-12(b) requires, in part, that "[n]o 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 Office of Oil and Gas 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 Office of Oil and Gas 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."

ORDER

West Virginia Code §22-6A-12(b) requires, in part, that "[n]o 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. The Office of Oil and Gas grants the request for a waiver for Wetland W. from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-033-05873. The Office of Oil and Gas hereby ORDERS that Triana shall meet the following site construction and operational requirements for the Brennan well pad:

- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least a eighteen inches (18") in height;
- b. Straw wattles shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs;
- c. Wetland W shall have two rows of super silt fence (SF) in all areas draining into the wetland
- d. All diversion ditches that feed the area where the wetland is located shall have a riprap aprons to aid in the removal of sediment.
- e. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
- f. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill;
- g. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
- h. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls:
- Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;
- i. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (1/2") rain within any twenty-four (24) hour period;
- k. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies:
- 1. All records from inspections shall be maintained on site for the life of the project and be available upon request.

Thus ORDERED, the 13th day of January, 2016.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

OFFICE OF OIL AND GAS DEPARTMENT OF ENVÍRONMENTAL PROTECTION STATE OF WEST VIRGINIA

By:

VAMES A. MARTIN, CHIEF

4703305073

API NO. 47		
OPERATOR WELL	NO.	Brennen 3H
Well Pad Name:	Brenna	an .

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

1) Well Operator:	Triana En	ergy, LLC	494486431	Harrison	Clay-Out	Rosemont
			Operator ID	County	District	Quadrangle
2) Operator's Well	Number: B	rennan 3H	Well Pac	Name: Bren	nan	
3) Farm Name/Sur	face Owner:	Janice M. Bren	nan Trust Public Roa	d Access: CF	R 73/73 - Be	nedum Drive
4) Elevation, curren	nt ground:	1,233.2'	Elevation, proposed	post-construct	ion: 1,230'	
5) Well Type (a)	Gas	X Oil	Unde	erground Stora	ge	
Oti	ner			-		
(b)	If Gas Sh	allow	Dеер			
	Ho	rizontal	X			\sim D $^{\circ}$
6) Existing Pad: Ye	s or No No)				5D4 1/13/
7) Proposed Target	Formation(s	s), Depth(s), An	ticipated Thickness a	nd Associated	Pressure(s):	1/151
			Thickness = 130', Pre			
8) Proposed Total V	Vertical Den	th: Onondaga	a/Huntersville Chert	= 7 770'		
)) Formation at Tot	-		lus (pilot hole will ad		Onondaga	Huntersville Chart
				VEHOS HILO CHE	Onondaga	Tiuntersyme Crieft
10) Proposed Total	Measured D	Depth: 15,500	r.			
1) Proposed Horiz	ontal Leg Le	ength: 6,800'				
2) Approximate Fi	resh Water S	strata Depths:	210', 670', 950'			
3) Method to Dete	rmine Fresh	Water Depths:	Adjacent well records, WVGE	S Coal Mapping Projec	t, WVDEP databas	e of reported water occurence
4) Approximate Sa		•	orted			
5) Approximate C	oal Seam De	epths: 135, 21	0, 305, 385, 465, 51	0, 610, 630, 6	570	
6) Approximate D	epth to Poss	ible Void (coal	mine, karst, other):	None anticipa	ted	
7) Does Proposed lirectly overlying o				No	x	
(a) If Yes, provide	Mine Info	Name:				
(-) 11 103, provide	wante mile.				· ·- ·-	
		Depth:	· · · · · · · · · · · · · · · · · · ·			
		Seam:				
		Owner:				

WW-6B	
(12/14)	

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API NO. 47		
OPERATOR WELL	NO.	Bremen 3H
Well Pad Name:	Brenna	su .

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20°	New	LS	55	60	60	CTS
Fresh Water	13-3/8"	New	H-40	48	1,025	1,025	CTS
Coal	NA					· · · · · · · · · · · · · · · · · · ·	
Intermediate	9-5/8"	New	J-55	40	2,625	2,625	стѕ
Production	5-1/2"	New	P-110	20	15,500	15,500	Top @ 4,925'
Tubing	2-3/8"	New	N-80	4.7	0	8,100	None
Liners						<u> </u>	

50W

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Max. Associated Surface Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.25	340	N/A	Resdy-mix concrete	N/A
Fresh Water	13-3/8"	17-1/2"	0.33	1,730	1,000	Cissa A, w/Additives	1.18 - 1.54
Coal	NA						
Intermediate	9-5/8"	12-3/8 - 12-1/4"	0.395	3,950	2,500	Class A, w/Acolityca	1.18 - 1.54
Production	5-1/2"	8-3/4 - 7-7/8"	0.361	12,640	10,000	Type 1, w/Add2Wca	1.37 - 1.65
Tubing	2-3/8"	N/A	1.19	11,200	8,000	None	None
Liners							· · · · · · · · · · · · · · · · · · ·

PACKERS

Kind:	N/A		
Sizes:			
Depths Set:			

WW-6B
(12/14)

AP	NO. 47		
	OPERATOR WEL	L NO.	Brennan 3H
	Well Pad Name:	Brenna	an

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill vertical hole into the Onondaga Formation to a TVD of 7,770', conduct survey, install cement plug back to kick-off point at 6,060', wait for cement to harden, drill deviated hole to TMD and set casing.

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20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Perforate the production casing and production zone with perforating guns at predetermined locations, isolate treatment zones in stages and perform high pressure slick-water fracture, introducing proppant to retain fractures. Maximum pressure should not exceed 10,000 psi, and the maximum rate should not exceed 100 bbl/minute.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 20.88 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 9.62 acres

23) Describe centralizer placement for each casing string:

Centralizers will be used as needed. The number and type is dependent on hole conditions. Rigid-style centralizers will be used in the lateral and curve sections of the well bore.

24) Describe all cement additives associated with each cement type:

Conductor - if pumped conventionally (wet hole) - Type 1 or Class A cement with 0-3% CaCl2 and up to 1/4# per sack of Flake type LCM.

Conductor - if grouted from surface (dry hole) - Typical "Ready Mix" from a construction plant with gravel aggregate.

Surface Casing - Class A cement with 3% CaCl2 and 1# per sack of Flake type LCM.

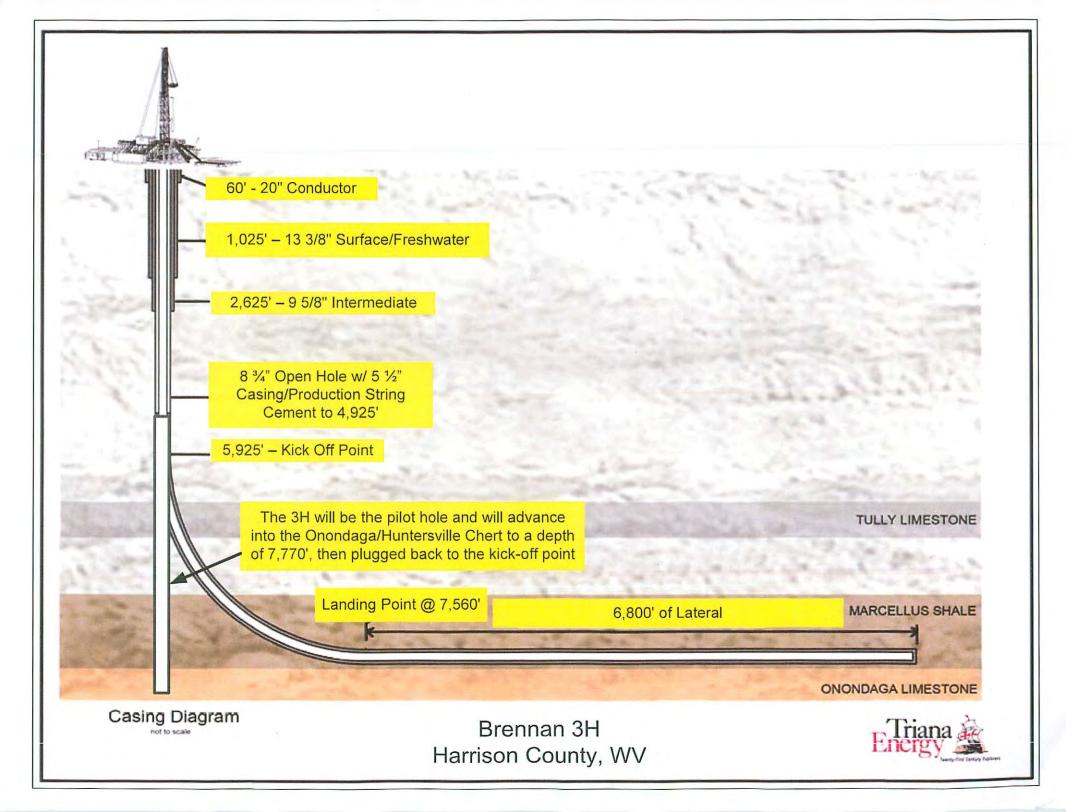
Intermediate Casing - Class A cement with 0-3% CaCl2 and a fluid loss/gas migration additive, an anti-foaming additive, and up to 1/2# per sack of Flake type LCM.

Production Casing - Class A 50:50 Poz mix (50% Class A cement/50% Fly Ash) with 2% bentonite gel, with a fluid loss/gas migration additive, a retarder additive and an anti-foaming additive.

25) Proposed borehole conditioning procedures:

Proposed bore hole conditioning procedures will depend on hole conditions. These may include, but are not limited to: weighted or high viscosity fluid sweeps, mud solvent fluid sweeps, surfactant sweeps, scouring sweeps, high-rate or extended circulation, pipe rotation and reciprocation, short trips and other appropriate methods.

*Note: Attach additional sheets as needed.



API Number 47 -	-
Operator's Well No.	Brennan 3H

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

FLUIDS/ CUTTINGS DISPOS	SAL & RECLAMATION PLAN
Operator Name_Triana Energy, LLC	OP Code 494486431
Watershed (HUC 10) Thomas Fork of Booth's Creek	Quadrangle Rosemont
Do you anticipate using more than 5,000 bbls of water to complet Will a pit be used? Yes No	te the proposed well work? Yes No
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes	No If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	Spw
Reuse (at API Number	Number 34-009-2-3823-00-00 - K&H UIG #23 3 0 5 8 3 3
Off Site Disposal (Supply form WW-9 Other (Explain Fairmont Brine - WVR00	9 for disposal location) 0521948
Will closed loop system be used? If so, describe: Yes, mud recyc	cling with centrifuge and cuttings drier/shaker.
Drilling medium anticipated for this well (vertical and horizontal))? Air, freshwater, oil based, etc. Air for vertical section; oil-based for horizontal section
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	hetic Oil-based Mud
Additives to be used in drilling medium? Soap, potassium solution	
Drill cuttings disposal method? Leave in pit, landfill, removed of	
	sed? (cement, lime, sawdust)
-Landfill or offsite name/permit number? Waste Managen	
Permittee shall provide written notice to the Office of Oil and Gas West Virginia solid waste facility. The notice shall be provided wwhere it was properly disposed.	s of any load of drill cuttings or associated waste rejected at any vithin 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West Virg provisions of the permit are enforceable by law. Violations of a law or regulation can lead to enforcement action. I certify under penalty of law that I have personally e application form and all attachments thereto and that, based obtaining the information, I believe that the information is true penalties for submitting false information, including the possibility	// [[]]
Company Official Signature	WV Done
Company Official (Typed Name) Walter C. Showen, III	Environmental page Ceived
Company Official Title Permitting Manager	office of one & Gas
218+	23 2015
Subscribed and sworn before me this day of	
grandy waster	Notary Public OFFICIAL SEAL
My commission expires 10-4-21	Notary Public, State Of West Virginia
	Couth Charleston WV 253091/15/201

Triana Energy, LLC	
Proposed Revegetation Treatment: Acres Disturbed 20.88 +	/- Prevegetation pH 4/03305873
Lime2 Tons/acre or to correct to pf	approx. 7
Fertilizer type 10-20-20 or equivilant	
Fertilizer amount 500	bs/acre
Mulch_100 balesTons/	acre
See	ed Mixtures
Temporary	Permanent
Seed Type lbs/acre	Seed Type Ibs/acre
30% Annual Ryegrass, 20% Pennate Orchard	30% Annual Ryegrass, 20% Pennate Orchard
10% Alsike Clover, 10% Trefoil Norcen Empire	10% Alsike Clover, 10% Trefoil Norcen Empire
15% Climax Timothy N.C., 15% Perennial Ryegrass	15% Climax Timothy N.C., 15% Perennial Ryegrass
Photocopied section of involved 7.5' topographic sheet.	7/-
Plan Approved by:	Received Received Received Office of Oil & Gas
Comments: Pre-Seed/mulch as soci	Exs as necessary per AUG 05 2015
WV DEP regulation. Upgrade	AUG 00
WUDEP Ed Smanual-	
	Received
THE COR I SPROKE	Date: 7/15/2015 Office of Oil & Gas JUL 23 2015 Office of Oil and Gas
Pi-11 Projected (V) Ven () No.
rieid Keviewed?	Office of Oil and Gas

WV Department of Environmental Protection

JUL 2 7 2015

01/15/2016



August 3, 2015

Ms. Melanie Hankins
Environmental Technician
Office of Oil and Gas
West Virginia Department of Environmental Protection
601 57th Street, S. E.
Charleston, West Virginia 25304

4703305873

Re: Triana Energy, LLC – Horizontal Well Work Permit Application Brennan 3H Well, Harrison County, West Virginia - Plat Omission

Dear Ms. Hankins:

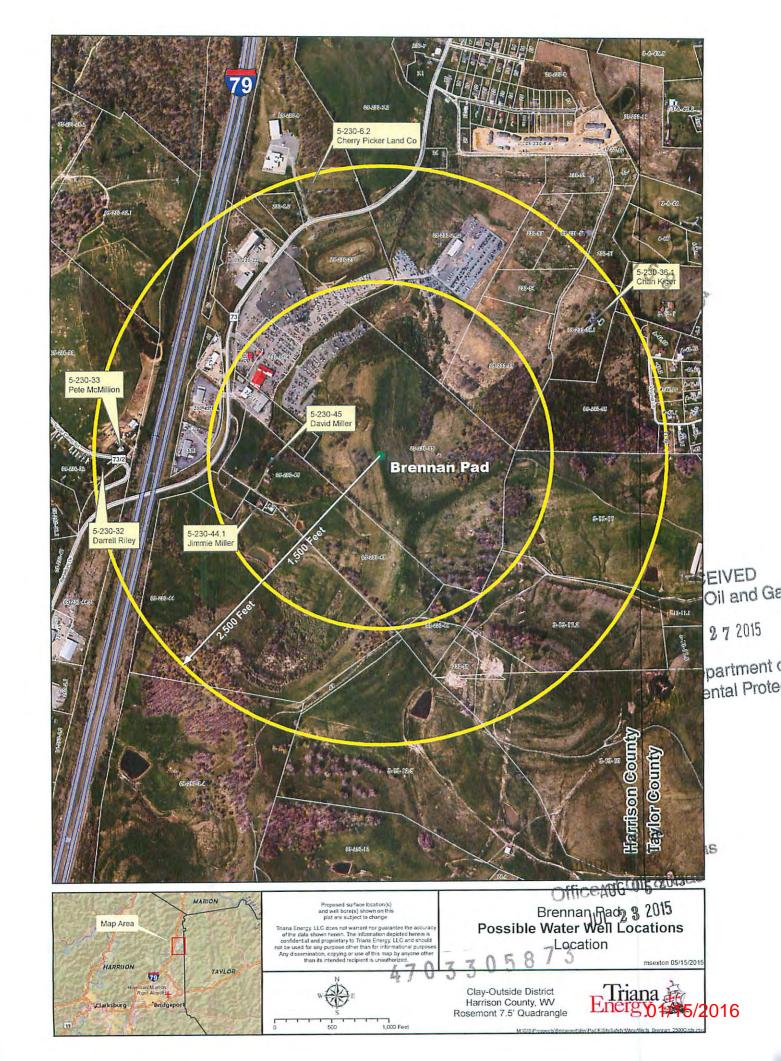
Enclosed please find the map showing possible water well locations, the authorization letter from the WV DOH, the Site Safety Plan, and the Water Management Plan Application for the proposed Brennan 3H horizontal well. These items were inadvertently left out of the package I delivered to you on July 31.

I'm sorry for any inconvenience. Please feel free to contact me should you have any questions or need additional information.

Sincerely,

Walter C. Showen, III Manager, Permitting

Office of Oil & Gas AUG 0 5 2015





SDW 7/15/2015

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Triana Energy, LLC

Brennan 3H

Well Site Safety Plan

131 Auto Drive

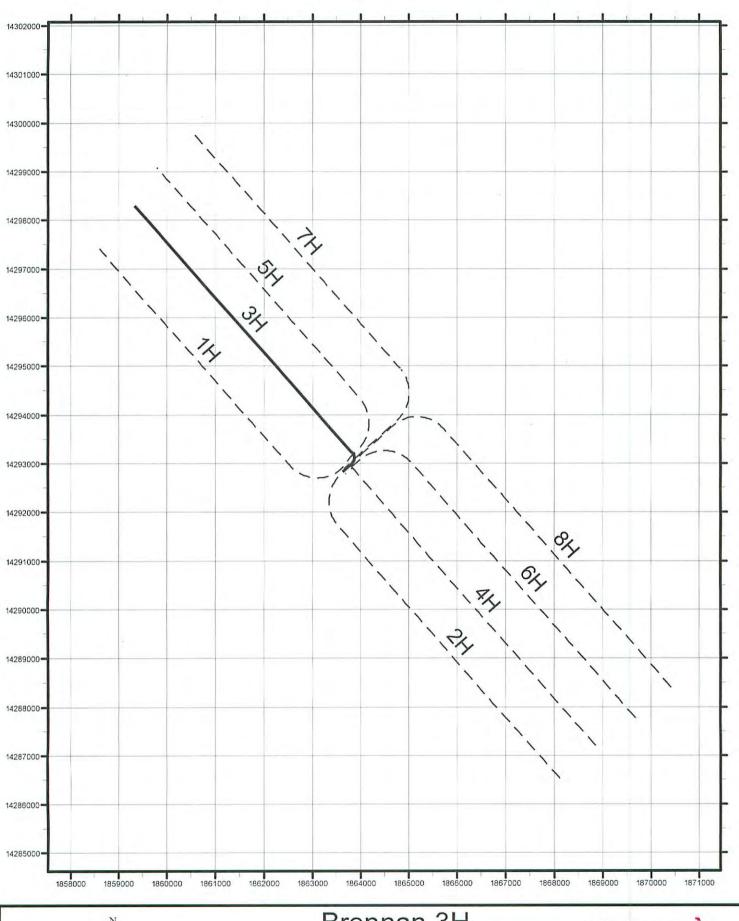
Bridgeport, Harrison County, West Virginia

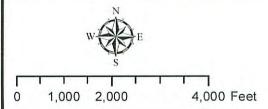
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WV Department of Environmental Protection

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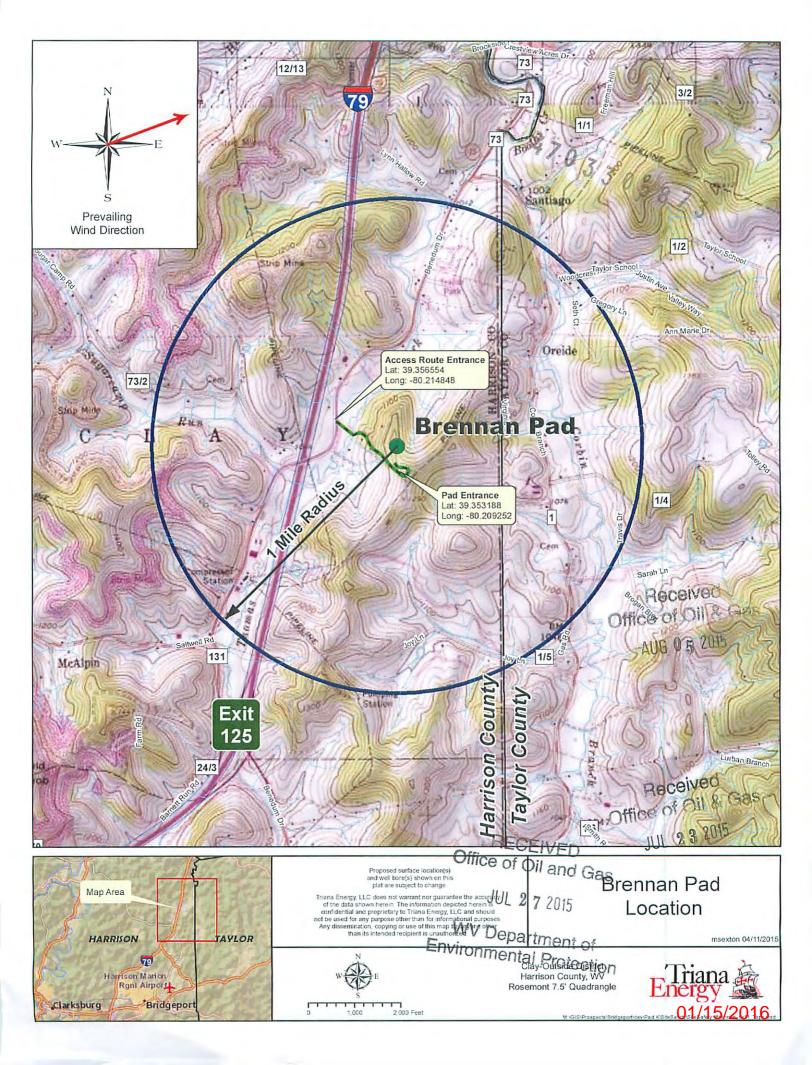


Brennan 3H

Clay District
Harrison County, WV
Coordinate System:
NAD 1983 UTM Zone 17 Feet
Grid Spacing: 1000'



01/15/2016 10/23/2015 3H.mxd



Operator's Well No.	Brennan 3H

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that -

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name o Number	r Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
58561	Leland H. Nixon et al	Hope Natural Gas	12.5%	617/312
48589	J.E. Core and Erma L. Core	Hope Natural Gas	12.5%	471/461
Partial Assignm	Dominion Transmission, Inc.	Triana Energy, LLC		1521/1290

4703305873

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following: Received Office of Oil & Gas

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Triana Energy, LLC

By: Walter C. Showen, III Its:

Office of Oil and Gas

JUL 2 7 2015

Permitting_Manager

Page 1 of

AUG 0 5 2015

WV Department of Environmental Protection

01/15/2016

Dominion Transmission Predecessor Name Change Chain

Confirmatory Deed (Exhibit 4)

A. Instrument:

C. Instrument:

Dated: April 1, 1965 Filed: April 22, 1965

Recorded: Deed Book 903, Page 179
Assignor: Hope Natural Gas Company

Assignee: Consolidated Gas Supply Corporation
Interests Assigned: All of Assignor's real estate, which
would include the Current Oil and Gas
Lease, pursuant to a merger between the

parties dated February 8, 1965.

Assignment of Oil and Gas Leases

B. Instrument: (Exhibit 5)

Dated: March 1, 1984, effective January 1,

1984

Filed: April 9, 1984

Recorded: Deed Book 1136, Page 250

Assignor: Consolidated Gas Supply Corporation
Assignee: Consolidated Gas Transmission

Corporation

Interests Assigned: All of Assignor's interest in several

leases, including the Current Oil and Gas Lease, pursuant to a Transfer Agreement and Plan of Reorganization

dated April 10, 1980 between

Consolidated Gas Supply Corporation,

Consolidated Gas Transmission

Corporation and Consolidated Natural

Gas Company.

Certificate of Amendment of

Certificate of Incorporation (Exhibit

6)

Dated: January 13, 1988 Filed: January 29, 1988

Recorded: Incorporation Record 51, Page 795
Original Party: Consolidated Gas Transmission

Corporation

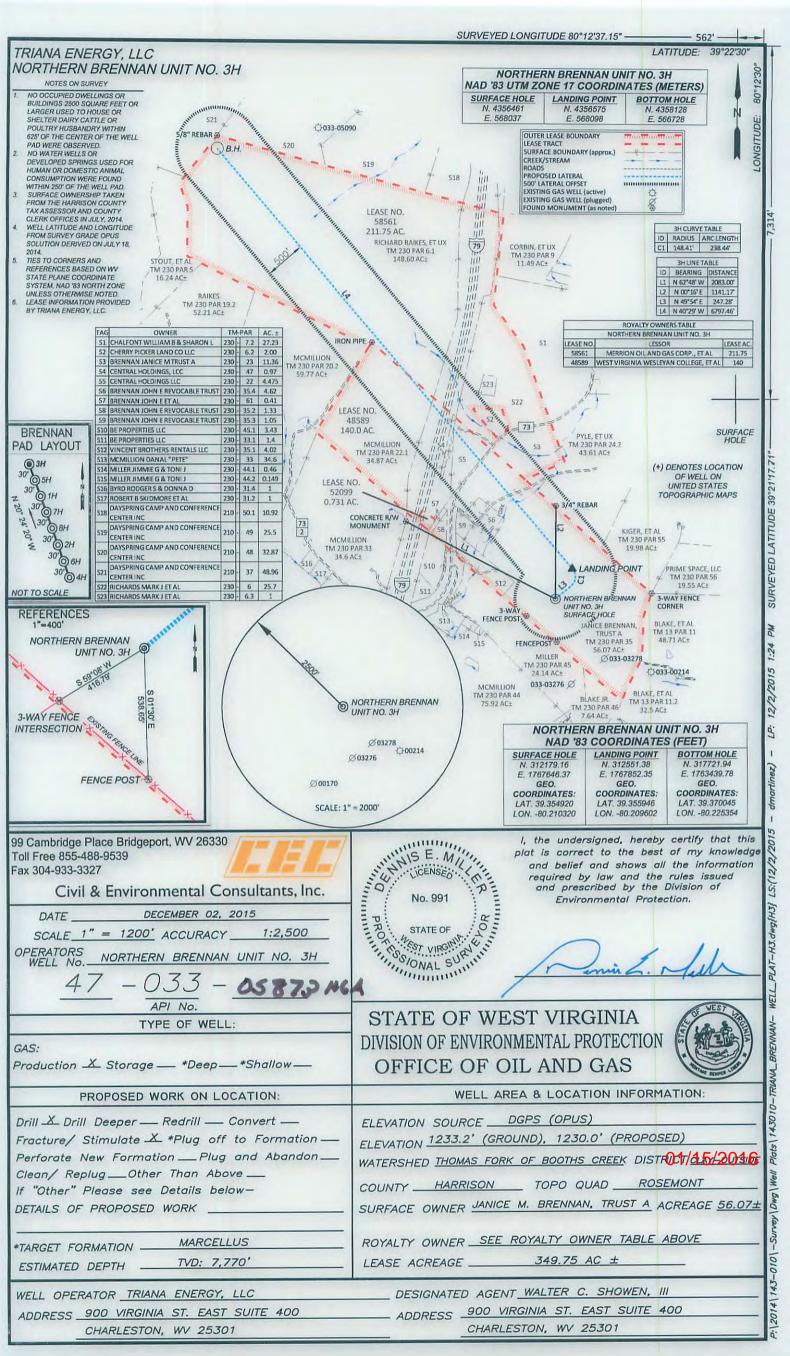
Surviving Party: CNG Transmission Corporation Purpose: Consolidated Gas Transmission

Corporation changed its name to CNG

Transmission Corporation.

Dominion Transmission Predecessor Name Change Chain

D. Instrument:	Certificate of Name Change (Exhibit 7)	
Dated: Filed: Recorded: Original Party: Surviving Party: Purpose:	May 10, 2000 May 17, 2000 Incorporation Record 58, Page 362 CNG Transmission Corporation Dominion Transmission, Inc. To give notice that CNG Transmissio Corporation changed its name to Dominion Transmission, Inc.	
E. Instrument:	Partial Assignment of Oil & Gas Leases (Exhibit 8)	
Dated: Filed: Recorded: Assignor: Assignee:	October 22, 2013 October 30, 2013 Deed Book 1521, Page 1290 Dominion Transmission, Inc. Triana Energy, LLC	



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

Date of Noti	ce Certification:		API No. 47	/ -		
		(perator's	Well No. Brent	nan 3H	
		•	Vell Pad l	lame: Brennan	· · · · · · · · · · · · · · · · · · ·	
	been given:					
	he provisions in West Virginia Code § 22	2-6A, the Operator has provi	ded the rec	juired parties w	vith the Notice Forms listed	i
	tract of land as follows:					
State:	West Virginia		Easting:	568,037		
County:	Harrison		Northing:	4,356,461		_
District:	Clay-Outside	Public Road Acces		CR 73/73 - Bened	lum Drive	_
Quadrangle:	Rosemont	Generally used fan	n name:	Brennan		
Watershed:	Thomas Fork of Booth's Creek	.				
it has provid information r of giving the requirements Virginia Cod	the secretary, shall be verified and shall ed the owners of the surface described equired by subsections (b) and (c), section surface owner notice of entry to surve of subsection (b), section sixteen of the § 22-6A-11(b), the applicant shall tend have been completed by the applicant.	I in subdivisions (1), (2) and on sixteen of this article; (ii) by pursuant to subsection (and in article were waived in v	f (4), substhat the read, section to the criting by	ection (b), sec quirement was en of this artic the surface ow	tion ten of this article, the deemed satisfied as a resul- cle six-a; or (iii) the notice vner; and Pursuant to Wes	e lt e st
Pursuant to	West Virginia Code § 22-6A, the Opera	ator has attached proof to thi	s Notice C	ertification		
	erator has properly served the required p ECK ALL THAT APPLY	earties with the following:			OOG OFFICE USE ONLY	
☐ 1. NO	TICE OF SEISMIC ACTIVITY or S	ONOTICE NOT REQUIRED NOTICE NOT REQUIRED NOTICE NOT REQUIRED NOTICE NOTI			☐ RECEIVED/ NOT REQUIRED	
■ 2. NO	TICE OF ENTRY FOR PLAT SURVEY	Y or NO PLAT SURVE	Y WAS CO	ONDUCTED	☐ RECEIVED	
☐ 3. NO		NOTICE NOT REQUIRE			RECEIVED/ NOT REQUIRED	r
	- 0 7 3W	VAS CONDUCTED or			MACOIVE	j
	4703305873	-	~		Office of Oil &	~
	4/000	I WRITTEN WALVERNE	KBURFA	CE OWNER	On 19	Cies
		(PLEASELE TACH)	nd Gas	'	AUG 0 5 2015	
■ 4. NO	TICE OF PLANNED OPERATION	Office of Oil a	· 015		☐ RECEIVED	
		Office of 1017 8 1	<i>Γ</i> 01.2			
■ 5. PU	BLIC NOTICE	JUL "	mont (of	☐ RECEIVED	
■ 6. NO	TICE OF APPLICATION	Eunitouweut MA Debat	al Prote	otion Offi	Receivedo ce of Oil & Gas	
		Ellano				
Required A	Attachments:			·	JUL 2 3 2015	

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.

Certification of Notice is hereby given:

THEREFORE, I Walter C. Showen, III , have read and understand the notice requirements within West Virginia Code § 22-6A. 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.

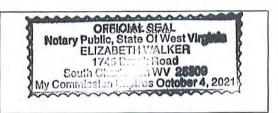
Well Operator: Triana Energy, LLC

By: Walter C. Showen, III

Its: Permitting Manager

Telephone: 304-205-8503

Email: tshowen@trianaenergy.com



Subscribed and sworn before me this 5th day of may, 2015

My Commission Expires 10-4-2

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.

4703305873

RECEIVED
Office of Oil and Gas

JUL 2 7 2015

WV Department of as Environmental Protection Gas AUG 0 5 2015

Notary Public

Office of Oil & Gas
JUL 23 2015

API NO. 47-			
OPERATOR	WELL NO.	Brennan 3H	
Well Pad Nan	ne: Brennan		

01/15/2016

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

Notice Time Requirement: notice shall be provide	d no later th	an the filing date of permit application	n.
Date of Notice: 5/7/2015 Date Permit Application Notice of:	on Filed: 7/	22/2015	
		PROVAL FOR THE AN IMPOUNDMENT OR PIT	
Delivery method pursuant to West Virginia Code	e § 22-6A-1	0(b)	
☐ PERSONAL ☑ REGISTERED SERVICE MAIL		OD OF DELIVERY THAT REQUIR OF SIGNATURE CONFIRMATION	1000
sediment control plan required by section seven of this the surface of the tract on which the well is or is propo oil and gas leasehold being developed by the proposed described in the erosion and sediment control plan sub operator or lessee, in the event the tract of land on whimore coal seams; (4) The owners of record of the surfacell work, if the surface tract is to be used for the place impoundment or pit as described in section nine of this have a water well, spring or water supply source locate provide water for consumption by humans or domestic proposed well work activity is to take place. (c)(1) If m subsection (b) of this section hold interests in the lands records of the sheriff required to be maintained pursual provision of this article to the contrary, notice to a lien Code R. § 35-8-5.7.a requires, in part, that the operator water purveyor or surface owner subject to notice and	sed to be local well work, in the well pursuich the well place tract or tracement, constant article; (5) and within one canimals; and nore than three s, the applicant to section holder is no or shall also payater testing	rated; (2) The owners of record of the sur I the surface tract is to be used for roads ant to subsection (e), section seven of the proposed to be drilled is located [sic] is known acts overlying the oil and gas leasehold be ruction, enlargement, alteration, repair, roans surface owner or water purveyor when thousand five hundred feet of the center of (6) The operator of any natural gas store the tenants in common or other co-owners are the may serve the documents required upon eight, article one, chapter eleven-a of this thought of the Well Site Safety Plan ("WSS), as provided in section 15 of this rule.	face tract or tracts overlying the or other land disturbance as is article; (3) The coal owner, mown to be underlain by one or being developed by the proposed emoval or abandonment of any is known to the applicant to of the well pad which is used to age field within which the of interests described in on the person described in the second (2) Notwithstanding any older is the landowner WEYWED Proposed to the surface owner and any office of Oil and Gas
Z SURFACE OWNER(s) Name: Janico M. Brennan Trust A Address: P.O. Box 98 Shinnston, WV 26431-0098 Name:		COAL OWNER OR LESSEE Name: Janica M, Brennan Trust A Address: P.O. Box 98 Shinnston, WV 26431-0098 COAL OPERATOR	WV Department of Environmental Protection Received
Address:		Name:Address:	Office of Oil & Gas
☑ SURFACE OWNER(s) (Road and/or Other Disturbance: Vincent Brothers Rentals	rbance)	SURFACE OWNER OF WATER AND/OR WATER PURVEYOR(s) Name: David R. Miller Address: 163 Quarter Horse Drive ShInnston, WV 26431 OPERATOR OF ANY NATURAL Name: Dominion Transmission, Inc. Address: 445 West Main Street Clarksburg, WV 26302-2400, ATTN: John Love *Please attach additional forms if ne	WELL JUL 2 3 2015 L GAS STORAGEFIELD RECEIO and Gas Lidavit Coessary 1 2 7 2015
		Er	WV Department of Protection 01/15/2016

WW-6A (9-13)

API NO. 47-		
OPERATOR WELL	NO.	Brennan 3H
Well Pad Name: Bre	nnan	

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 5/7/2015 Date Permit Application Filed: 7/22/2015 Notice of: PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT WELL WORK Delivery method pursuant to West Virginia Code § 22-6A-10(b) ✓ REGISTERED ☐ METHOD OF DELIVERY THAT REQUIRES A PERSONAL RECEIPT OR SIGNATURE CONFIRMATION SERVICE MAIL Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) NOR HORIZON provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Ya do Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. JUL 2 7 2015 ☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice ☐ Well Plat Notice is hereby provided to: 3 3 DICOAL OWNER OR LESSEE WV Department of ☐ SURFACE OWNER(s) **Environmental Protection** Name: Address: Address: COAL OPERATOR Received Name: Name: Address: Office of Oil & Gas Address: SURFACE OWNER(s) (Road and/or Other Disturbance) JUL 23 2015 SURFACE OWNER OF WATER WELL Name: Ricer Equipment (Tenant of Vincent Brothers Rentals) Address: RR 2, Box 849A1 AND/OR WATER PURVEYOR(s) Name: Jimmie G. & Toni J. Miller Shinnston, WV 26431 Address: 180 Quarter Horse Drive Name: Joseph R. & Charlotte A. Pyle (Tenants and Surface Owner Shinnston, WV 26431 Address: RR 2, Box 835 DOPERATOR OF ANY NATURAL GAS STORAGE FIELD Shinnston, WV 26431 ☐ SURFACE OWNER(s) (Impoundments or Pits) Address: Name: Address: *Please attach additional forms if necessary

WW-6A (9-13) API NO. 47-___OPERATOR WELL NO. Brennan 3H
Well Pad Name: Brennan

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. 4703305873 Date of Notice: 5/7/2015 Date Permit Application Filed: 7/22/2015 Notice of: PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) ☑ REGISTERED ☐ METHOD OF DELIVERY THAT REQUIRES A PERSONAL SERVICE MAIL RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner was a lien holder is not notice to a landowner, unless the lien holder is the landowner. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any as water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice ☐ Well Plat Notice is hereby provided to: ☐ 2 7 2015 COAL OWNER OR LESSEE ☐ SURFACE OWNER(s) Name: WV Department of Name: Environmental Protection Address: Address: COAL OPERATOR Name: Address: Name: Address: ☐ SURFACE OWNER(s) (Road and/or Other Disturbance) SURFACE OWNER OF WATER WELL Name: AND/OR WATER PURVEYOR(s) Address: Name: Danal "Pete" McMillion Address: 128 Sugar Camp Road Name: Shinnston, WV 26431 Address: OPERATOR OF ANY NATURAL GAS STORAGE FIELD ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: Address: Name: Address: *Please attach additional forms if necessary

	470-
State Of West Virginia	330-
County Of Harrison	4703305873
The undersigned, being first duly sworn, says complete copy of all sides of	
(1) Notice on Form $WW-2(A)\frac{15}{2}$ $WW-3(A)$ / $WW-$	and 🗾
all with respect to operator's Well No. Brennan 3H District, Harrison County, West Virginia, up	
Dominion Transmission, Inc.	
	y, State of WestVirginia manner specified below.
[COMPLETE THE APPROPRIA	TE SECTION] 4703305 to take it when a
For an individual: [] Handing it to him/ her 15 / or, because offered it, by leaving it in his 15 / her 15 / present	The factor of the factor of
Handing it to a member of his or her fami who resides at the usual p served, and asking the family member to give it to t possible.	lace of abode of the person to be
For a partnership: []] Handing it to because the partner refused to take it when I handed of the partner.	, a partner of the partnership or, it over, by leaving it in the presence
For a limited partnership: []] Handing it to the general partner, named_ because the general partner refused to take it when in the presence of the general partner.	, or, I tried to hand it over, by leaving it
For a corporation: [V] Handing it to the corporation's employee in fact 15 / named Ronald Walden	√/ officer 15/ director 15/ attorney
	person executing service)
Taken, subscribed and sworn before me this 191 My commission expires 10-4-21	
56	Notary Public
(AFFIX SEAL IF NOTARIZED OUTSIDE THE STATE)	
OFFICIAL SEAL Notary Public, State Of West Virginia ELIZABETH WALKER 1745 Brook Road	RECEIVED Office of Oil and Gas
Couth Charleston WV 25309	AUG 1 9 2015

Affidavit of Personal Service

WV Department of Environmental Protection 01/15/2016

Affidavit of Personal Service

State Of West Virginia	MATERIAL STATE OF THE STATE AND A STATE OF THE STATE OF T		470	V	
County Of Harrison	<u> </u>		that the undersign		
			0 0	182	
The unders complete copy of	igned, being first de all sides of	uly sworn, says t	that the undersign	ned served a tri	ue and
(2) Applicatio(3) Plat showing	Form WW-2(A)15/ n on Form WW-2(B)_/ ng the well location on and Reclamation P	WW-3(B) / WW-4 on Form WW-6, an	1(B) / WW-5(B) _ nd 🚺	/ WW-6(A) / / WW-6(B) /	
all with respect	ct to operator's Well County, We	est Virginia, upo	on the person or o	organization nam	
Morrison CMS			4.		
by delivering	the same in Harrison y of May	County	, State of West Virg	jinia	11-11-11
on the <u>191h </u> da		_, 20 <u>15</u> in the m	y, State of WestVing manner specified b	Pelow. 3058	>
For an individual $[\]$ Handi offered it, by leading to the second of the second contract of the second contract $[\]$	l: ng it to him/ her eaving it in his 15_/	15 / or, because	he 15 / she 15 / re		
	ng it to a member of who resides ng the family member	at the usual pl	ace of abode of t	he person to be	2
For a partnership [] Handing because the partner.	p: ng it to ner refused to take i	it when I handed	a partner of the it over, by leavi	e partnership on ng it in the pr	esence
pecause the gener	rtnership: ng it to the general ral partner refused t of the general partne	to take it when I	Jeff Morrison tried to hand it	, or over, by leavi	ng it
For a corporation [15] Handin in fact_15_/ named	ng it to the corporat	cion's employee 18	5 / officer 15 / di	rector 15 / atto	orney
			person executing	service)	
Taken, sub My commiss:	scribed and sworn bei	fore me this 1947	day of augus	20/5	•
		- 5/6	ptary Public	IKU!	
(AFFIX SEAL IF NO	OTARIZED OUTSIDE THE	STATE)			
	AAAAAA				

OFFICIAL SEAL
Notary Public, State Of West Virginia
ELIZABETH WALKER
1745 Brook Road
South Charleston WV 25309
My Commission Expires October 4, 2021

RECEIVED Office of Oil and Gas

AUG 1 9 2015

WV Department of Environmental Protection 01/15/2016

WW-6A	
(8-13)	

API NO. 47	-	
OPERATOR WE	LL NO.	Brennan 3H
Well Pad Name:	Brennan	

JUL 2 7 2015

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 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.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting Covering Cov and-gas/pages/default.aspx.

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 localed within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred sold to the present the pr or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultura 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 14th Set 18124bb 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

WW-6A	
(8-13)	

API NO. 47
OPERATOR WELL NO. Brennan 3H
Well Pad Name: Brennan

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.

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. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

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. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the GORAN, (c) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of waters for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption problem tely caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

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 application is filed with the secretary. All persons described in West Virginia Code 5.22 Grap (b) may file with the comments as to the location or construction of the applicant's proposed well work of the construction of the applicant's proposed well work of the construction of the applicant's proposed well work of the construction of the applicant's proposed well work of the construction of the applicant of the construction of the applicant of the construction of the applicant of the applic

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th 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.

JUL 23 2015

WW-6A	
(8-13)	

API NO. 47-OPERATOR WELL NO. Brennan 3H Well Pad Name: Brennan

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 hame 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.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

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

(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.

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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. RECEIVED Office of Oil and Gas

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JUL 2 7 2015

Received Office of Oil & Gas

WV Department of Environmental Protection JUL 2 3 2015

WW-6A	
(8-13)	

API NO. 47OPERATOR WELL NO. Brennan 3H
Well Pad Name: Brennan

Notice is hereby given by:

Well Operator: Triana Energy, LLC

Telephone: 304-205-8503 Email: tshowen@trianaenergy.com Address: 900 Virginia Street Fast, Charleston, WV 25301

Facsimile: 304-205-8503

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 awv.gov.

OFFICIAL SEAL
Notary Public, State Of West Virginia
ELIZABETH WALKER
1745 Brook Road
South Charleston WV 25309
My Commission Expires October 4, 2021

Subscribed and sworn before me this 5th day of May, 2015.

Notary Publ

y Commission Expires 10 - 4 - 21

Received
Office of Oil & Gas
AUG 0 5 2015

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Office of Oil and Gas

JUL 2 7 2015

WV Department of Environmental Protection Office of Oil & Gas

JUL 23 2015

API NO. 47	
OPERATOR WELL NO.	Brennan 3H
Well Pad Name: Brennan	

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

VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

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.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and addiment control plan, if required, and the well plat, and further files written statements of no objection by all such persons the decrease issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

	, hereby state that I have read the sted above, and that I have received copies of a N	MENT OI	NO OB	JECTIO	NOffice or	0 = 5012	
ī	hereby state that I have read th	e Instructions	to Persons N	amed on Pas	ze WW-6AAAA	the associated	
provisions lis	sted above, and that I have received copies of a N	otice of Appli	cation, an Ap	plication for	a Well Work Pe	ermit on Form	
WW-6A and	attachments consisting of pages one (1) through	n	_, mondaing	the erosion	and scument co	ontior plan, it	
required, and the well plat, all for proposed well work on the tract of			ollows:		RE	CEIVED	
State:	West Virginia	UTM NAD 83 Easting: Northing: Public Road Access:		568,037	Office of Oil and G		
County:	Harrison					TOTT ATTU CIAS	
District:	5 T 7 W 1 T 7 S S S S T 7 S S			CR 73/73 - Benedum Drive		0 = 0045	
Quadrangle:	Rosemont	Generally used	farm name:	Brennan	JUL	2 7 2015	
Watershed:	Thomas Fork of Booth's Creek						
*Please check	k the box that applies	FC	OR EXECUT	ION BY A	NATURAL PER	RSON	
□ SURFA	CE OWNER	Si	gnature:				
☐ SURFACE OWNER (Road and/or Other Disturbance)			Print Name:				
□ SUKTA	CE O WINER (Road and/of Other Disturbance)	Da	ite:				
☐ SURFA	CE OWNER (Impoundments/Pits)	FC	OR EXECUT	ION BY A	CORPORATIO	N, ETC.	
□ COAL (OWNER OR LESSEE						
☐ COAL OPERATOR			Company: Received By: Office of Oil & Gas				
L COAL	SIGNION	113		UII	ICE OF UIL	s ci as	
☐ WATER PURVEYOR		Si	gnature:		JUL 23 20	15—	
☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD			ite:				

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.

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF SEISMIC ACTIVITY

Date of Notice: Date of Seismic Activity: _	ast THREE (3) DAYS prior to commencement of the seismic activity.
Delivery method pursuant to West Virginia Code § 22-6A-	10a
☐ PERSONAL ☐ REGISTERED ☐ MET	HOD OF DELIVERY THAT REQUIRES A
	EIPT OR SIGNATURE CONFIRMATION
SERVICE WAIL RECE	an Foreign Total con manning
be extracted using horizontal drilling methods, the company of West Virginia Inc. and to all surface owners, coal owners and blasting, percussion or other seismic-related activities will occommencement of the seismic activity. (3) The notice shall als sediment control manual that provides for the reclamation of a	nducting any seismic activity for seismic exploration for natural gas to reprson performing the activity shall provide notice to Miss Utility of lessees, and natural gas storage field operators on whose property ur. (2) The notice shall be provided at least three days prior to o include a reclamation plan in accordance with the erosion and my areas disturbed as a result of the seismic activity, including filling of des questions as to whether seismic activity may be secured by mineral COAL OWNER OR LESSEE
☐ MISS UTILITY OF WEST VIRGINIA INC.	☐ COAL OWNER OR LESSEE
Address: 900 Virginia Street East, Charleston, WV 25301	Name:
No. 10 Personal Property Control of the Personal Property Control	Address:
☐ SURFACE OWNER(s)	
Name:	☐ NATURAL GAS STORAGE FIELD OPERATOR
Address:	Name:
	Address: Offic RECEIVE
Name:	WICE OF OUVED
Address:	oll and o
	Name: Address: Office of Oil and Ga.
Notice is hereby given:	7 2015
Pursuant to West Virginia Code § 22-6A-10(j), notice is hereb	y given that the undersigned well operator will be conducting seismic xtracted using horizontal drilling methods on the trace fland as UTM Coordinate NAD83 Northing: UTM Coordinate NAD83 Easting: UTM Coordinate NAD83 Easting:
related activities for seismic exploration for natural gas to be e	xtracted using horizontal drilling methods on the tract of land as
follows:	inental p
State: West Virginia	UTM Coordinate NAD83 Northing:
County:;	UTM Coordinate NAD83 Easting:
District: Clay-Outside ; Quadrangle: Rosemont ;	Public Road Access: on 13/13 benedalli blive
Quadrangle: Rosemont	Watershed: Inomas Fork of Books Creek
	Watershed: Thomas Fork of Booth's Creek Generally used farm name: Brennan
This Notice Shall Include:	
Pursuant to West Virginia Code § 22-6A-10(j)(3), this notice s	hall include a reclamation plan in accordance with the erosion and
sediment control manual that provides for the reclamation of a	ny areas disturbed as a result of the seismic activity, including filling of
shotholes used for blasting. Additional information related to h	norizontal drilling may be obtained from the Secretary, at the WV
Department of Environmental Protection headquarters, located	l at 601 57 th Street, SE, Charleston, WV 25304 (304-926-0450) or by
visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.	
Notice is hereby given by:	Beceived
Well Operator: Triana Energy, LLC	Address: 900 Virginia Street East, Charleston, WRISCEIVED
Telephone: 304-205-8503	Office of Oil or Cas
Email: tshowen@trianaenergy.com	Facsimile: 304-205-8503
Oil and Gas Privacy Notice:	JUL 2 3 2015
The Office of Oil and Gas processes your personal inform	nation, such as name, address and telephone number, as part of our

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.

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

	Requirement: Notice shall be pro	vided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to
entry Date of Notice	Date of Pla	inned Entry: 11/10/2014
Date of Notic	Date of Fig.	milled Entry. Miller
Delivery met	hod pursuant to West Virginia (Code § 22-6A-10a
☐ PERSO	NAL REGISTERED	☐ METHOD OF DELIVERY THAT REQUIRES A
SERVIC		RECEIPT OR SIGNATURE CONFIRMATION
on to the surfi but no more t beneath such owner of min and Sediment Secretary, wh enable the sur	ace tract to conduct any plat survey han forty-five days prior to such en tract that has filed a declaration put erals underlying such tract in the c Control Manual and the statutes a	Prior to filing a permit application, the operator shall provide notice of planned entry is required pursuant to this article. Such notice shall be provided at least seven days atry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams resuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any ounty tax records. The notice shall include a statement that copies of the state Erosion and rules related to oil and gas exploration and production may be obtained from the information, including the address for a web page on the Secretary's website to the secretary.
Notice is her	eny provided to.	AUG 0 5
SURFACE	CE OWNER(s)	COAL OWNER OR LESSEE 7
Name: Janice N	1. Brennan Trust A	Name: Janice M. Brennan, Trust A Address: P.O. Box 98 Shinnston, WV 26431-0098
Address: P.O.	Box 98	Address: P.O. Box 98
Shini	nston, WV 26431-0098	Shinnston, WV 26431-0098
Name:		
Address:		■ MINERAL OWNER(s)
		Name: West Virginia University Foundation, Inc.
A STATE OF THE STA		Address: One Waterfront Place - 7th Floor
Address:		P.O. Box 1650, Morgantown, WV 26507-1650
		*please attach additional forms if necessary RECEIVED
		Office of Oil and Gas
Notice is he		omeo of Oil and Gas
		notice is hereby given that the undersigned well operator is planning entry to conduct
	on the tract of land as follows:	JUL 27 2015
State:	wv	Approx. Latitude & Longitude: 39.355053, -80.210201
County:	Harrison	Public Road Access: Watershed: State Route 73 WV Department of Thomas For Lover West Fork River
District:	Clay-Outside	Watershed: Thomas First Lover West Fork River UTER Of
Quadrangle:	Rosemont	Generally used farm name: Janice M. Brennan Protection
may be obtain Charleston, W	ned from the Secretary, at the WV/V 25304 (304-926-0450). Copie	ol Manual and the statutes and rules related to oil and gas exploration and production Department of Environmental Protection headquarters, located at 601 57 th Street, SE, s of such documents or additional information related to horizontal drilling may be p.wv.gov/oil-and-gas/pages/default.aspx.
Notice is be	roby given by:	
Well Operato	reby given by:	Address: 900 Virginia Street East, Suite 409
		Address: 900 Virginia Street East, Suite 400 Peceived
Telephone:	304-205-8503	Charleston, WV 25301 Faccimile: 204 205 8503 Office of Oil & Gas
Email:	tshowen@trianaenergy.com	Facsimile: 304-205-8503 Office Of Cast
Oil and Gas	Privacy Notice:	Facsimile: 304-205-8503 Office of Oil & Gas JUL 2 3 2015

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 deprivacyofficer@wv.gov.

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

entry Date of Notice:			ned Entry: 1		lys but no more tha	an FORTY-FIVE (45) days prior to
		to West Virginia Co				
_	7 / Y					
☐ PERSONAI SERVICE		REGISTERED MAIL			JIVERY THAT R NATURE CONFIE	
on to the surface but no more than beneath such trac	tract to cond forty-five da t that has file s underlying ntrol Manua statement she e owner to o	duct any plat surveys ays prior to such ent ed a declaration pur- g such tract in the co all and the statutes an nall include contact in btain copies from th	required purs ry to: (1) The suant to section	uant to this a surface owne thirty-six, a	rticle. Such notice r of such tract; (2) rticle six, chapter (shall provide notice of planned entry shall be provided at least seven days to any owner or lessee of coal seams twenty-two of this code; and (3) any statement that copies of the state prospect or or outcome may be obtained from the production may be obtained from the page on the Secretary's web site to
		J.		A		
■ SURFACE (/			L OWNER OR LE	ESSEE
Name: Janice M. Bre	nnan Trust A				ice M. Brennan, Trust A	
Address: P.O. Box 9		· ·	-	Address:		V
	, WV 26431-0098		-		Shinnston, WV 26431-00	98
Name:			de la companya de la	II MINI	ERAL OWNER(s)	/
						1
2.2					st Virginia Wesleyan Colle Atln: Dr. Barry Pritts	
					59 College Avenue, Buckl	hannon, WV 26201 RECEIVED
			-		h additional forms if no	AND MAKE
a plat survey on the	Virginia Co	ode § 22-6A-10(a), n and as follows:				II operator is planning elttry 20 Conduct
State: wv					ude & Longitude:	39.355053, 80.2 W 0V Department of
	rrison			Public Road A	Access:	Thomas Fork, Lower West Fork Riveral Protection
	y-Outside			Watershed:	d farm name:	
Quadrangle: Ros	semont			renerally use	d farm name.	Janice M. Brennan
may be obtained charleston, WV obtained from the	from the Sec 25304 (304- Secretary b	cretary, at the WV D -926-0450). Copies by visiting <u>www.dep</u>	epartment of I of such docum	Environmenta ents or addit	l Protection headq ional information i	oil and gas exploration and production quarters, located at 601 57th Street, SE, related to horizontal drilling may be
Notice is hereb				. 11		or of Oil & Gas
	Triana Energy, LI	LC		Address:	900 Virginia Street Eas	at suite Office of Oil & Gas
Service Control of the Control of th	304-205-8503			Englands.	Charleston, WV 25301	JUL 2 3 2015
Email:	tshowen@trianae	energy.com		Facsimile:	304-205-8503	JUL De La

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.

RECEIVED Office of Oil and Gas

WW-6A4 (1/12) OCT 0 6 2015

Operator Well No. Brennan 3H

WV Department of

Environmental Protection Tate of West Virginia DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Date of Hoties	e: <u>5/7/2015</u>	ate Permit Ap		97
Delivery metl	nod pursuant to West Virginia (Code § 22-6A-	16(b)	4703305873
☐ HAND	☐ CERTIFIED MAI	ř		3050
			ED	0877
DELIVE	RY RETURN RECEI	PT REQUEST	ED	J
receipt request drilling a horiz of this subsect subsection may	ed or hand delivery, give the surf contal well: <i>Provided</i> , That notice ion as of the date the notice was p	ace owner noti e given pursua provided to the ace owner. Th	to filing a permit application ce of its intent to enter upon t int to subsection (a), section to surface owner: <i>Provided, how</i> the notice, if required, shall include	i, an operator shall, by certified thall return the surface owner's land for the purpose en of this article satisfies the requirement of the requirements of the lude the name, address, telephone numbers.
	eby provided to the SURFAC	CE OWNER		
Name: Janice M.			Name:	- Control of the Cont
Address: P.O. B			Address:	
Shinns	ton, WV 26431-0098	_		
Pursuant to Withe surface ow State:	est Virginia Code § 22-6A-16(b), ner's land for the purpose of drilli West Virginia	ng a horizonta	I well on the tract of land as for Easting:	568,037
the surface ow State: County:	est Virginia Code § 22-6A-16(b), ner's land for the purpose of drilli West Virginia Harrison	ng a horizonta	I well on the tract of land as for UTM NAD 83 Easting: Northing:	568,037 4,356,461
Pursuant to We the surface ow State: County: District:	est Virginia Code § 22-6A-16(b), ner's land for the purpose of drilli West Virginia Harrison Clay-Outside	ng a horizonta	I well on the tract of land as for UTM NAD 83 Easting: Northing: Public Road Access:	568,037
Pursuant to Withe surface ow State: County: District: Quadrangle: Watershed:	est Virginia Code § 22-6A-16(b), ner's land for the purpose of drilli West Virginia Harrison Clay-Outside Rosemont Thomas Fork of Booth's Creek	ng a horizonta	I well on the tract of land as for UTM NAD 83 Easting: Northing:	568,037 4,356,461 CR 73/73 - Benedum Drive
Pursuant to We the surface ow State: County: District: Quadrangle: Watershed: This Notice & Pursuant to We facsimile num related to horizological processors at 601	est Virginia Code § 22-6A-16(b), ner's land for the purpose of drilli West Virginia Harrison Clay-Outside Rosemont Thomas Fork of Booth's Creek Shall Include: Vest Virginia Code § 22-6A-16(l) ber and electronic mail address zontal drilling may be obtained ff 57th Street, SE, Charleston, WV	ng a horizonta o), this notice of the operator on the Secret	Well on the tract of land as for UTM NAD 83 Public Road Access: Generally used farm name: shall include the name, adding and the operator's authorizery, at the WV Department of	568,037 4,356,461 CR 73/73 - Benedum Drive
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Pursuant to Withe surface ow State: County: District: Quadrangle: Watershed: This Notice Sursuant to Wifacsimile num related to horizoted at 601 Notice is her Well Operator	est Virginia Code § 22-6A-16(b), ner's land for the purpose of drilli West Virginia Harrison Clay-Outside Rosemont Thomas Fork of Booth's Creek Shall Include: Vest Virginia Code § 22-6A-16(ber and electronic mail address zontal drilling may be obtained f 57 th Street, SE, Charleston, WV 2 cby given by: Trlana Energy, LLC	o), this notice of the operator from the Secret 25304 (304-926	well on the tract of land as for UTM NAD 83 Beasting: Northing: Public Road Access: Generally used farm name: shall include the name, adding and the operator's authorized ary, at the WV Department of 6-0450) or by visiting www.ds Authorized Representative:	ollows: 568,037 4,356,461 CR 73/73 - Benedum Drive Brennan ress, telephone number, and if availabled representative. Additional information of Environmental Protection headquarter ep.wv.gov/oil-and-gas/pages/default.aspx
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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 depprivacyofficer@wv.gov.

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

WAIVER

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided*, *however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

notice require	ments under West Virginia Code §			l above and hereby waive the llows:
State:	West Virginia	—— UTM NAD 83	Easting:	568,037
County:	Harrison	UTMINAD 83	Northing:	4,356,461
District:	Clay-Outside	Public Road Acce	ess:	CR 73/73 - Benedum Drive
Quadrangle:	Rosemont	Generally used fa	ırm name:	Brennan
Watershed:	Thomas Fork of Booth's Creek			
Name:		Signature:		
Address:		Date:		47033 Gesived Ga
The Office of	Privacy Notice: Oil and Gas processes your personal information	onal information, such as n	ame, addres	office of Silve Ga as and telephone number of part of noies or third parties in the normal

The Office of Oil and Gas processes your personal information, such as name, address and telephone number 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.

Received Office of Oil & Gas JUL 23 2015

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Office of Oil and Gas

JUL 2 7 2015

WW-6A5 (1/12)

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

				olater than the filing date of permit a oplication Filed: 7/22/2015	npplication.
Deliv	ery metho	od pursuant to West Virginia C	ode § 2	22-6A-16(c)	
	CERTIFII RETURN	ED MAIL I RECEIPT REQUESTED		HAND DELIVERY	
return the p required drilling dama	n receipt re lanned ope red to be p ng of a ho ges to the he notices	equested or hand delivery, give the eration. The notice required by rovided by subsection (b), section rizontal well; and (3) A propose surface affected by oil and gas on	e surfa this su ten of d surfa eration	ce owner whose land will be used for absection shall include: (1) A copy of this article to a surface owner whose ace use and compensation agreement as to the extent the damages are comp	ation, an operator shall, by certified mail rethe drilling of a horizontal well notice of of this code section; (2) The information a land will be used in conjunction with the containing an offer of compensation for ensable under article six-b of this chapter, ted in the records of the sheriff at the time
(at th	e address l	y provided to the SURFACE O isted in the records of the sheriff rennan Trust A			
	ess: P.O. Box		••	-	
		on, WV 26431-0098	-		470
Pursu opera State: Coun Distri Quad	tion on th : <u>y</u> ty: <u>F</u> ict: <u>C</u> rangle: <u>F</u>	st Virginia Code § 22-6A-16(c), r	otice i	s hereby given that the undersigned w f drilling a horizontal well on the trac TOTM NAD 83 Northing: Public Road Access: Generally used farm name:	vell operator has developed a planned of of land as follows: 568,037 4,356,461 CR 73/73 - Benedum Drive Brennen
Pursu to be horize surface information	nant to We provided ontal well; ce affected mation rela	by W. Va. Code § 22-6A-10(b) and (3) A proposed surface use by oil and gas operations to the ated to horizontal drilling may be ocated at 601 57th Street, SE,	to a s and co e exten e obta	surface owner whose land will be us impensation agreement containing an it the damages are compensable under tined from the Secretary, at the WV	rode section; (2) The information required sed in conjunction with the drilling of a offer of compensation for damages to the er article six-b of this chapter. Additional Department of Environmental Protection or by visiting

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 deprivacyofficer@wv.gov.

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AUG 1 9 2015

API NO. 47-	-		
OPERATOR WELL	L NO.	Brennan 3H	
Well Pad Name:	Brennan		

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL LOCATION RESTRICTION WAIVER

The well ope work. Please	rator,			of West Virginia to cond	luct oil or gas well
Well Location Pursuant to V any existing of located within larger used to dwellings or a provided in so article was pr by written co clerk of the co variance by th or practices to	on Restrictions Vest Virginia Code § 22-6A-12(a), water well or developed spring use a six hundred twenty-five feet of an on house or shelter dairy cattle or pagricultural buildings that existed control tension of this article or a notice ovided, whichever occurs first, and ansent of the surface owner transmit county commission for the county he secretary from these distance results are controlled to the surface of the county has been ployed during well site controlled to the country of the surface of the country has been ployed during well site controlled to the surface of the country has been ployed during well site controlled to the country of the country the surface of the country has been ployed during well site controlled to the country that the country the surface of the country that th	Wells may not be drilled for human or domes a occupied dwelling structure poultry husbandry. The offinent to drill a horize to any dwelling under itted to the department in which such property trictions upon submissing and	lled within two hurstic animal consumucture, or a building is limitation is applied to surface owner contal well as provincenstruction prior and recorded in the is located. Furthe on of a plan which operations. The v	ption. The center of welling two thousand five hund plicable to those wells, of planned entry for survey ded in subsection (b), sec to that date. This limitati the real property records remore, the well operator identifies the sufficient rariance, if granted, shall	I pads may not be dred square feet or developed springs, eying or staking as tion sixteen of this on may be waived maintained by the may be granted a neasures, facilities include terms and
include insura	nnce, bonding and indemnification,	as well as technical req			
WW-6A and	, hereby state that ted above, and that I have received attachments consisting of pages one the well plat, all for proposed well West Virginia	I have read the Instruct copies of a Notice of A c (1) through work on the tract of lan UTM NA	ions to Persons Nar pplication, an Appl , including the e	med on Page WW-6A and ication for a Well Work F erosion and sediment	Permit GCGHGC
District:	Clay-Outside		oad Access:	CR 73/73 - Benedum Drive	
Quadrangle: Watershed: I further state issued on thos	Rosemont Thomas Fork of Booth's Creek that I have no objection to the plan se materials and I therefore waive a	ned work described in t	y used farm name: hese materials, and isted under West V	I have no objection to a p	permit being (a).
*Please check	RESTRICTIONS BEING WAIN tall that apply	and the same of th	Signature:	TION BY A NATURAL	Secretary and the secretary an
☐ EXISTIN	NG WATER WELLS 470	33050	Date		
□ DEVEL	OPED SPRINGS		FOR EXECUT Company:	TION BY A CORPORA	LIGNORAC GAR
☐ DWELI	LINGS		By:	es e B	0100
☐ AGRICU	JLTURAL BUILDINGS	R Office	dfDail and G	as Office	118/18/45 - Cas
Well Operato	r; Triana Energy, LLC	Sign	nature:		
		Telje	ghong: 7 2015		
10:	NOTARY SEAL	Subscribed and swo	Department of this need this need the contact of th	day-ofe - a of	eived Oil & Gas 3v2015 Public
		My Commission Ex	cpires		
Oil and Gas P	rivacy 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@wy.gov.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

Earl Ray Tomblin Governor 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

July 22, 2015

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

4703305873

Subject: DOH Permit for the Brennan Pad, Harrison County
Brennan 3H

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit #04-2015-0629 for the subject site to Triana Energy, LLC. for access to the State Road for the well site located off of Harrison County Route 73/73 SLS.

The operator has signed a DISTRICT WIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT for DOH District 4 and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012. RECEIVED Office of Oil and Gas

JUL 2 7 2015

WV Department of Very Truly Yourswironmental Protection

Gary K. Clayton

Regional Maintenante Engineer

Central Office Qil

UL 23 205 Oil & Gas

AUG 0 5 2015

Cc: Trip Showen

Triana Energy, LLC

CH, OM, D-4

File

Triana Energy, LLC Hydraulic Fracturing Chemical Additives 2015

Hydrochloric Acid

Leb 10X - Gel Breaker

Silica Sand

EcoAcid CI

StimLube W

Unigel CMHPG Guar Product

*Safety Data Sheets included on compact disc

4703305873

Compliance Certification Form

PERMIT NO: 2015-644

Energy, LLC 4703305873

NAME OF PERMITTEE: Triana Energy, LLC

DATE OF ISSUANCE: July 21, 2015

Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the following address:

U.S. Army Corps of Engineers
Pittsburgh District
Regulatory Branch, Room 2200
William S. Moorhead Federal Building
1000 Liberty Avenue
Pittsburgh, PA 15222-4186

Please note that your permitted activity is subject to compliance inspection by a U.S. Army Corps of Engineers Representative. If you fail to comply with this permit, you are subject to permit suspension, modification, or revocation.

I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and conditions of the said permit, and required mitigation was completed in accordance with the permit conditions.

Signature of Permittee

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JUL 27 : 7

The issuance of this Nationwide Permit will not relieve you of the responsibility to obtain any other required state, local, or Federal authorizations.

If you have any questions, please contact Matthew Gilbert at (412) 395-7189 or at matthew.c.gilbert@usace.army.mil. Please complete our customer survey online and provide us with feedback at http://corpsmapu.usace.army.mil/cm apex/f?p=136:4:0

Sincerely,

4703305873

/signed/

Karen A. Kochenbach Chief, Southern Section Regulatory Branch

Copies Furnished WVDEP CEC Inc.

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JUL 27 2015



DEPARTMENT OF THE ARMY PITTSBURGH DISTRICT, CORPS OF ENGINEERS WILLIAM S. MOORHEAD FEDERAL BUILDING 1000 LIBERTY AVENUE PITTSBURGH, PA 15222-4186

July 21, 2015

Operations Division Regulatory Branch 2015-644

Trip Showen Triana Energy, LLC 900 Virginia Street, East Suite 600 Charleston, West Virginia 26301 4703305873

Dear Mr. Showen:

I refer to the pre construction notification received in this office May 20, 2015, regarding the Triana Energy, LLC, Brennan Well Pad Project. This project proposes the construction of a natural gas well pad with attendant facilities and an associated access road in Shinnston, Harrison County, West Virginia (39.355169/-80.210444). The project proposes permanent impacts to 33 linear feet of stream and temporary impacts to 45 linear feet of stream associated with construction of an access road, as well as 0.0133 acre of temporary impacts associated with grading for the proposed well pad.

Activities associated with projects of this type are authorized by Nationwide Permit No. 39, previously issued by the Corps of Engineers, for purposes of Section 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act as published in the February 21, 2012 issue of the Federal Register.

Refer to http://www.lrp.usace.army.mil/Portals/72/docs/regulatory/publicnotices/PN12-16rev.pdf for a list of conditions which must be followed for the Nationwide Permit to be valid. Adherence to these conditions will permit you to proceed with the proposed project. Please Note, the enclosed Compliance Certification Form must be signed and returned to this office upon completion of the proposed work

The verification of this Nationwide Permit is valid until March 18, 2017 unless the Nationwide Permits are modified, suspended, or revoked. If project specifications are changed or work has not been initiated before March 18, 2017, please contact this office for further approval.

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JUL 27 2015

11/3/14			API Number:		
Wetland and Pe	rennial Stream Waiver Request	Op	Operator's Well Number:		
Well Operator:	Triana Energy, LLC				
	Brennan 3H	Well Pad Name:	Brennan		
County District	Quadrangle of Well Location: H				

Answer the questions below to request a waiver from West Virginia Department of Environmental Protection for any wetlands or perennial streams which lie within one hundred feet of proposed project Limit of Disturbance (LOD), which includes any erosion and sediment control devices to be used.

This waiver shall be requested pursuant to Chapter 22 Article 6A Section 12 of West Virginia Code, which states:

§22-6A-12(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.

§22-6A-12(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.

API Number: 3305873

Operator's Well Number: Brennan 3H

Answer in the space provided, or use additional pages as necessary to fully answer the questions below:

1. Describe the proposed project location, including unique identifying names of all wetlands, and the names of perennial streams for which the waiver is sought.

The Brennan Well Pad project location is proposed to encompass a ridge-top meadow on private property high out of the floodplain. The proposed project involves construction to extend an existing access road from a public road and construction of a well pad to accommodate eight horizontal natural gas wells. The total limit of disturbance is 20.88 acres and will result in permanent impacts to 33 linear feet of one stream (UT-24) and 0.0133 acre of one wetland (Wetland Z), along with temporary impacts to 45 linear feet of the stream (UT-24). The limits of disturbance of the pad construction will also encroach on the 100-foot buffer of Wetland W. Triana Energy seeks a waiver from WVDEP for these impacts. The WVDNR has issued a Right of Entry for the impact to UT-24. The US Army Corps of Engineers has issued their concurrence that the project meets the authorization under Nationwide Permit No. 39.

- 2. Justify the proposed activity by describing alternatives to this project that were considered.
 - a. Include a No-Action Alternative as to show "the future without the project"
 - b. Location Alternatives must be shown
 - c. Must demonstrate why a one hundred foot buffer cannot be maintained
 - d. Describe how the proposed project is the least environmentally damaging practicable alternative

See additional pages below

2. Justify the proposed activity by describing the alternatives to this project that were considered.

- a. Include a No-Action Alternative as to show "the future without the project"
- b. Location Alternatives must be shown
- c. Must demonstrate why a one hundred foot buffer cannot be maintained
- d. Describe how the proposed project is the least environmentally damaging practicable alternative

Triana Energy is an oil and natural gas exploration and production company primarily engaged in developing horizontal wells, extracting natural gas from the Marcellus Shale formation prevalent in north-central WV. Such extraction is restricted by the acquisition of mineral leases that provide the legal right to pursue the minerals. While horizontal drilling has led to great flexibility, efficiency and reduced environmental impact in the placement of surface well locations, operators are still constrained by the geographic borders of the mineral leases. West Virginia law requires that operators must only drill within the borders of their mineral leases. As such, Triana Energy must search for the most appropriate well pad location within that geographic boundary.

a) No-Action Alternatives: Triana Energy is under contractual obligation with the mineral lessors to actively pursue natural gas from formations under this well pad location. Further, The West Virginia Legislature has codified the importance of extracting natural gas, within the limits of the law, for the greater good and security of its citizens and the United States as a fuel and energy source. Should Triana Energy elect not to pursue this project, it would deny the individual mineral owners associated with this project their right to enjoy the benefits of their property. It would also reduce the amount of natural gas available for use by the citizens and industry of West Virginia.

b) Location Alternatives must be shown:

See enclosed map illustrating alternate locations considered for this project.

c) Must demonstrate why a one hundred foot buffer cannot be maintained.

Triana selected a ridgetop location to minimize environmental impact, while providing the greatest construction economy. The northern portion of the proposed well pad narrows considerably causing fills to extend further down the slope, in order to properly construct fill keys. This portion of the site will contain an above ground fresh water storage vessel. Above ground water containment was selected over an in-ground impoundment to reduce the overall environmental impact and aid in reclamation efficiencies. The construction design accommodates Wetland W by filling around it, instead of destroying it. Redundant erosion controls were added to the design at the request of the West Virginia Department of Environmental Protection.

d) Describe how the proposed project is the least environmentally damaging practicable alternative.

The ridgetop location selected for this project is comprised primarily of meadow, so Triana will avoid any impact to bat habitat and can minimize tree clearing and grubbing. A valley location also was evaluated, but impacts to floodplain and additional wetlands were likely, so Triana

API Number: <u>3305873</u>

Operator's Well Number: Brennan 3H

3. Identify sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. This description should include all additional erosion and sediment control measures and devices that will be used.

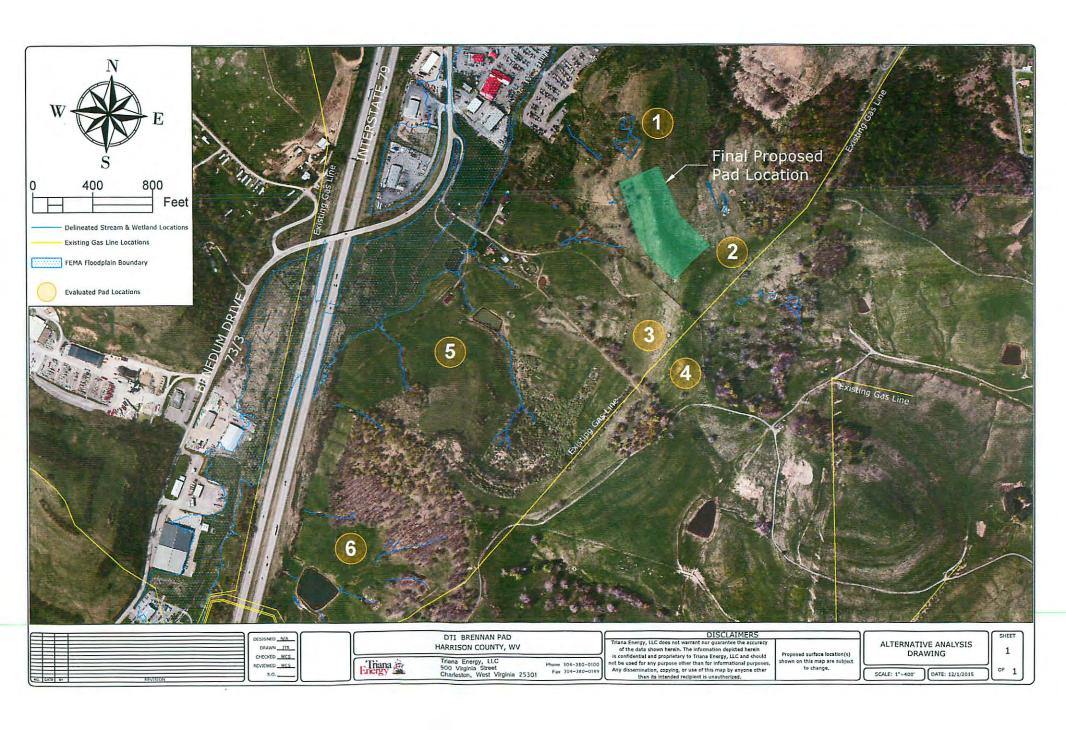
Please refer to the Brennan Pad Construction Design Drawings for related areas. Drainage piping will be installed in Wetland Z (0.0133 acre) during the filling of this small wetland to allow water flow to continue and protect the integrity of the toe of this portion of the constructed well pad. Constructed drainage will connect to access road drainage and will remain part of the watershed drainage. As noted in the construction design drawings, Silt fence, Super Silt Fence and straw wattles will be employed on fill slopes and disturbed areas to control sedimentation and runoff. Redundant Super Silt Fence will be installed between the toe of the fill and Wetland W. Constructed surface drainage will channel surface flows away from Wetland W and into sedimentation control devices. Corrugated plastic pipe will channel water from UT-24 to allow for the construction of the access road extension. Silt fence and rock check dams will control sedimentation and prevent erosion during and after construction. Drainage outlets will flow over rip-rap aprons.

- 4. Provide mapping, plans, specifications and design analysis for the preferred alternative to the project.
 - a. Specify in writing what additional controls, measures, devices, monitoring, etc. will be used to protect these wetlands and/or perennial streams for which the waiver is sought.

There is no preferred alternative location for this project. As shown on the attached map, several locations were evaluated prior to selecting the preferred project location. Those locations were rejected due to potential environmental impacts, construction difficulties, or conflicts with existing utilities.

Redundant Super Silt Fence will be installed around Wetland W, to protect it from sedimentation that could occur during construction of the well pad.

opted for a ridgetop location to avoid such potential impacts. In addition, Triana will utilize an existing bridge and partial access road, to minimize impacts to the stream, floodplain and habitat.



WEST VERSION SIL YOU DIG!

MISS UTILITY OF WEST VIRGINIA ONE CALL WAS PERFORMED IN OCTOBER, 2014.

TICKET NUMBER- 1430081372

THE FOLLOWING UTILITY COMPANIES MAY BE PRESENT IN THE PROJECT AREA.

- FRONTIER COMMUNICATIONS (FORMERLY VERIZON)
- AT&T TRANSMISSION DOMINION TRANSMISSION CORPORATION

- LUMOS NETWORKS CLARKSBURG WATER BOARD PEOPLES GAS COMPANY WV LLC
- DOMINION HOPE
- FIRST ENERGY
- TRI-COUNTY ASSOCIATION

PROJECT OWNER/APPLICANT

TRIANA ENERGY, LLC 900 VIRGINIA ST., EAST CHARLESTON, WV 26301 PH: (304) 205-8503 / (304) 549-2940 CONTACT: TRIP SHOWEN / JASON SMITHSON

CIVIL ENGINEER

CIVIL & ENVIRONMENTAL CONSULTANTS, INC. 99 CAMBRIDGE PLACE BRIDGEPORT, WV 26330 PH: (304) 933-3119 CONTACT: JOSEPH D. ROBINSON, P.E.

WVDOH

DISTRICT FOUR PH: (304) 842-1550 CONTACT: DISTRICT MANAGER RAY URSE

SPILL HOTLINE

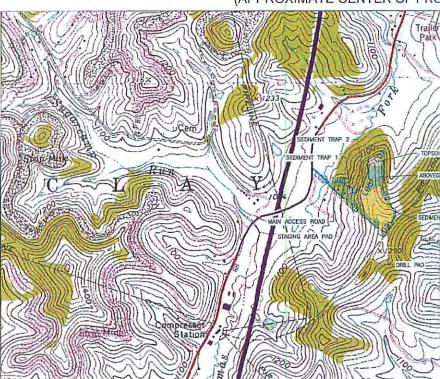
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WYDEP) PH: (800) 642-3074

NATIONAL RESPONSE CENTER PH: (800) 424-8802

LOC	AL EMERGENCY SERVICES	
	NAME	TELEPHONE NO.
AMBULANCE		911
HOSPITAL EMERGENCY ROOM	UNITED HOSPITAL CENTER	(304) 342-1000
FIRE DEPARTMENT		911
POLICE DEPARTMENT		911
DOIDON CONTROL CENTER	WEST VIDGINIA DOISON CENTED	(800) 022-1922

BRENNAN FINAL SITE DESIGN, CONSTRUEROSION & SEDIMENT CO TRIANA ENERGY

LAT./LONG: N 39° 21' 17.80" W 80° (APPROXIMATE CENTER OF PRO





CTION PLANS, & TROL PLANS LLC

39.19" ECT)





WV83-NF (WEST	LOCATIONS VIRGINIA NORTH	ZONE)
	LATITUDE	LONGITUDE
CENTROID OF PAD	39.354487	-80.210044

RAILROAD HAY A RANKOW GLOCÉ RAILROAD STAT GRADE CROSSIN RAILROAD ABOV RAILROAD BELO RAILROAD BELO RAILROAD TUNN

Karrow etre Mide Stream Harsh dr Siji Bah, Without

HIGHWAY BRIDG BRIDGE, GENERA SUBPOSION BW TRUBE ON GRADE CANTILLYER BRI DAM RITH BOAG HIGHWAY TURNE FORD TOAL BRIDGE

ECT

COUNTY LINE ... NAGISTERIAL DE NECOMPORATED 1

	E LOCATIONS T VIRGINIA NORTH	ZONE)
	NORTHING	EASTING
CENTROID OF PAD	4356413.1342	568061.4716

FLOOD F	LAIN CONDITIONS	
DO SITE CONSTRUCTION ACTIVITIE	ES TAKE PLACE IN FLOODPLAIN:	YES
PERMIT NEEDED FROM COUNTY F	LOODPLAIN COORDINATOR:	YES
HEC-RAS STUDY COMPLETED:		YES
FLOODPLAIN SHOWN ON DRAWIN	GS:	YES
FIRM MAP NUMBER(S) FOR SITE:	54033C0177D	
ACREAGE OF CONSTRUCTION IN	FLOODPLAIN: 0.32	

AFFECTED TAX PARCELS:

TAX MAP 230 - PARCEL 35

CLAY-OUTSIDE DISTRICT - HARRISON COUNTY, WV

TAX MAP 230 - PARCEL 35.1
VINCENT BROTHERS RENTALS, LLC
DB 1397, PG 663
4.02 ACRES ±
(AFFECTED AREA FROM MAIN ACCESS ROAD= 1.71 ACRES)
(AFFECTED AREA FROM SEDIMENT TRAP 1= 0.07 ACRES)
(AFFECTED AREA FROM STAGING AREA= 0.30 ACRES)

JANICE M. BRENNAN (TRUST)
DB 1321, PG 43
55.07 ACRES±
(AFFECTED AREA FROM MAIN ACCESS ROAD= 2.85 ACRES)
(AFFECTED AREA FROM MAIN DRILL PAD= 9.62 ACRES)
(AFFECTED AREA FROM SEDIMENT TRAP 1= 0.58 ACRES)
(AFFECTED AREA FROM SEDIMENT TRAP 2= 0.47 ACRES)
(AFFECTED AREA FROM SEDIMENT TRAP 3= 0.60 ACRES)
(AFFECTED AREA FROM ABOVEGROUND FRESHWATER STCRAGE PAD= 3.19 ACRES)
(AFFECTED AREA FROM ABOVEGROUND FRESHWATER STCRAGE PAD= 3.19 ACRES)

TAN MAP 230 - PARCEL 45
DAVID R. MILLER
DEED BOOK 1170 PAGE 739
24.14 ACRES±
(AFFECTED AREA FROM MAIN ACCESS ROAD= 0.01 ACRES)

WV DEPARTMENT OF HIGHWAYS (AFFECTED AREA FROM MAIN ACCESS ROAD= 0.04 ACRES)

SITE DISTURBANCE:

MAIN ACCESS ROAD	=	4.61 AC
WELL PAD	44	9.62 AC
STAGING AREA	22	0,30 AC
SEDIMENT TRAP 1	==	0.63 AC
SEDIMENT TRAP 2	44	0.47 AC
SEDIMENT TRAP 3	91	0.60 AC
ABOVEGROUND FRESHWATER		
STORAGE PAD	215	3.19 AC
TOPSOIL PILE	**	1.46 AG
TOTAL	-	20.88 AC
TOTAL WOODED AREA	-	1.95 AC
TOTAL WOODED AREA	-	- Annie

5 Dev 7/15/2015



PLAN REPRODUCTION WARNING

THE FLANS HAVE BEEN CREATED ON ANSI D (22" X 34") SHEETS. FOR REDUCTIONS, REFER TO GRAPHIC SCALE.

THE PLANS HAVE BEEN CREATED FOR FULL COLOR PLOTTING. ANY SET OF THE PLANS THAT IS NOT PLOTTED IN FULL COLOR SHALL NOT BE CONSIDERED ADEQUATE FOR CONSTRUCTION PURPOSES.

WARNING: INFORMATION MAY BE LOST IN COPYING AND/OR GRAY SCALE PLOTTING.

	SHEET INDEX	
SHEET 1 OF 23	COVER SHEET	
SHEET 2 OF 23	EXISTING CONDITIONS PLAN	
SHEET 3 OF 23	CONSTRUCTION NOTES	
SHEET 4 OF 23	SUMMARY OF QUANTITIES	
SHEET 5 OF 28	OVERVIEW SITE PLAN	
SHEETS 6-8 OF 23	FINAL SITE DESIGN PLAN	
SHEETS 9-15 OF 23	PROFILES & CROSS SECTIONS	
SHEETS 15-20 OF 23	CONSTRUCTION DETAILS	
SHEETS 21-23 OF 23	RECLAMATION PLAN	







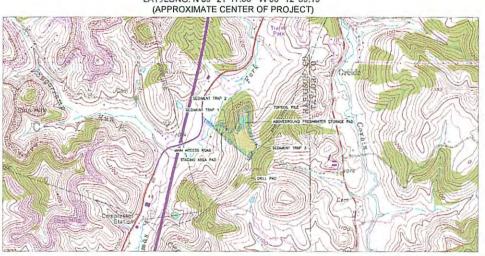


PROJECT OWNER/APPLICANT WOOH WITCH DISTRICT FOUR PH: (309 842-1530 CONTACT: DISTRICT MANAGER MAY URSE TRIANS ENERGY, LLC
600 VIRONIA ST., EAST
CHARLESTON, WY 25301
PH (304) 304-603 (104) 549-0840
CONTACT: TRIP SHOWEN / JASON SMITHSON SPILL HOTLINE CAN ENGINEER CIVIL & ENVIRONMENTAL CONSULTANTS, INC. 19 CAMBRIDGE PLACE BRIDGEPORT, WY 28330

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP) PH (800) 642-3074 NATIONAL RESPONSE CENTER PH (800) 424-8802 PH (304) \$33-0119 CONTACT JOSEPH D. ROBINSON, P.E.

LOC	AL EMERGENCY SERVICES	
	NAME	TELEPHONE NO.
AMBULANCE		011
HOSPITAL EMERGENCY ROOM	UNITED HOSPITAL CENTER	(304) 342-1000
FIRE DEPARTMENT		911
POLICE DEPARTMENT	Harting Co. Co. Co., Sec. 1	D11
POISON CONTROL CENTER	WEST VIRGINIA POISON CENTER!	(800) 222-124Z

Capitol





LOCATION MAP ROSEMONT USGS 7.5" QUAD



Eastern

PENNSYLVANIA

MARYLAND

VIRGINIA

PROJECT AREA

VICINITY MAP

HARRISON COUNTY ROAD MAP SCALE IN FEET 1 MLES 1 BACH = 1 MILE



	SITE LOCATIONS 83-NF (WEST VIRGINIA NORTH ZONE)		
	LATITUDE	LONGITUDE	
CENTROID OF PAD	29.354487	-80.210044	

	LOCATIONS T VIRGINIA NORTH	70NFI
- 11100-111 (1100		EASTING
CENTROID OF PAD	4306413,1342	508051,4715

FLOOD F	LAIN CONDITIONS	
DO SITE CONSTRUCTION ACTIMIT	ES TAKE PLACE IN FLOODPLAIN	YE
PERMIT NEEDED FROM COUNTY F	LOCOPLAIN COCRONATOR:	YE
HECANS STUDY COMPLETED:		YES
FLOGOPLAIN SHOWN ON DRAWINGS:		YES
FIRM MAP NUMBER(S) FOR SITE:	54033C01770	-
ACREAGE OF CONSTRUCTION IN	FLOODPLAIN: 0.82	

	SHEET INDEX
SHEET 1 OF 25	COVERSHEET
SHEET 2 OF 25	EXISTING CONDITIONS PLAN
SHEET 3 OF 25	CONSTRUCTION NOTES
SHEET 4 OF 25	SUMMARY OF QUANTITIES
SHEET 5 OF 25	OVERMEW SITE PLAN
SHEETS 64 DF 25	FINAL SITE DESIGN PLAN
SHEETS 9-11 OF 25	WELL PAD PROFILES & SECTIONS
SHEETS 12-14 OF 25	ACCESS ROAD PROFILES & SECTIONS
SHEETS 15 OF 25	SUMP 1 TO SUMP 2 PROFILE
SHEETS 16 OF 25	WATER TANK PAIL PROFILES & SECTIONS
5HEETS 17 DF 25	TOPSOL PILE PROFILES & SECTIONS
SHEETS 18-22 OF 25	CONSTRUCTION DETAILS
SHEETS 23-25 OF 25	RECLAMATION PLAN

AFFECTED TAX PARCELS

CLAY-OUTHOR DISTRICT - HARRISON COUNTY W

TAX MAP 250 - PARCEL 351
VINCENT HACTHOR'S RENTALS, LLC
DE 159, FO 400
402 AGRESA
AGRICANIA ARRAN HOLE MAN ACCESS FOAD - 1,71 ACRES)
(APPECTED AFEA FROM SEDIMENT THAP - LCD ACRES)
(APPECTED AFEA FROM SEDIMENT THAP - LCD ACRES)
(APPECTED AFEA FROM SEDIMENT THAP - ACCESS FOAD - 1,72 ACRES)

(AFTECLES AMEA FROM A RANGE OF MAY 6 CEST ACTIVES)

TAX MAP 200 - FADICLE SI
JANGE M. DRENANN (TRUST)

(AFTECTED AREA FROM MAIN ACCESS FOAD = 2.65 ACPES)

(AFTECTED AREA FROM MAIN DOILL, PAD = 0.62 ACPES)

(AFTECTED AREA FROM MAIN DOILL, PAD = 0.62 ACPES)

(AFTECTED AREA FROM MEDICAL THAT A CONTROL SI

(AFTECTED AREA FROM SECIENCY THAT I = 0.65 ACPES)

(AFTECTED AREA FROM SECIENCY THAT I = 0.65 ACPES)

(AFTECTED AREA FROM SECIENCY THAT I = 0.65 ACPES)

(AFTECTED AREA FROM SECIENCY THAT I = 0.65 ACPES)

(AFTECTED AREA FROM SECIENCY THAT I = 0.65 ACPES)

(AFTECTED AREA FROM SECIENCY THAT I = 0.65 ACPES)

TAN MAP 250 - PARCEL 48 DAND R. MILER DEED BOOK 1170 PAGE 759 2-114 ACREE (AFFECTED AREA FROM MAIN ACCESS ROAD = 0.01 ACRES)

WY DEPARTMENT OF HIGHWAYS (AFFECTED AREA FROM MAIN ACCESS ROAD - 0.04 ACRES)

TOTAL WOODED AREA

SHE DISTURBANCE:		
MAIN ACCESS ROAD		481AC
WELL PAD		9.62 AC
STAGING AREA	-	0.30 AC
BEDIMENT TRAP 1		0.53 AC
SEDIMENT TRAP 2	-	0.47 AC
SEDIMENT THAP 3		0.50 AC
ASOVEGROUND FRIESHWATER		
STORAGE PAD		3.19 AC
TOPSOIL PILE		1.40 AC
TOTAL.		20,88 AC

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WARNING INFORMATION MAY BE LOST IN COPYING AND/OR GRAY SCALE PLOTTING.



C000

KENTU

COVER SHEET

Civil & 1 F

TRIANA ENERGY, LLC BRENNAN WELL PAD CLAY-OUTSIDE DISTRICT IARRISON COUNTY, WEST VIRGINIA