

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Wednesday, October 14, 2020 WELL WORK PERMIT Horizontal 6A / Fracture

TUG HILL OPERATING, LLC 380 SOUTHPOINTE BOULEVARD, PLAZA II SUITE 200 CANONSBURG, PA 15317

Re: Permit approval for HENDRICKSON 3H

47-051-01491-00-00

This well work permit 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 any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of 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.

Per 35 CSR 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) 926-0450.

James A. Martin

Chief

Operator's Well Number: HENDRICKSON 3H

Farm Name: HENDRICKSON, LINDA LOU

U.S. WELL NUMBER: 47-051-01491-00-00

Horizontal 6A Fracture

Date Issued: 10/14/2020

Promoting a healthy environment.

API Number: 47-051-01491

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. 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.
- 2. 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.
- 3. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 4. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 5. 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.
- 6. 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, cessation 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, S.E. Charleston, WV 25304 (304) 926-0450 Fax: (304) 926-0452 Austin Caperton, Cabinet Secretary dep.wv.gov

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

TO: Tug Hill Operating, LLC 380 Southpointe Boulevard, Plaza II., Suite 200 Canonsburg, PA 15317 DATE: October 8, 2020 ORDER NO.: 2020-W-4

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 Tug Hill Operating, LLC (hereinafter "Tug Hill" or "Operator"), collectively the "Parties."

FINDINGS OF THE CHIEF

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

- 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.
- Tug Hill is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as 380 Southpointe Boulevard, Plaza II., Suite 200, Canonsburg, PA 15317.
- On June 24, 2020 Tug Hill submitted fracture permit applications for wells identified as API#s 47-51-01467, 47-51-01479, 47-51-01480, 47-51-01491 and 47-51-01492. The wells are located on the Hendrickson Pad in the Franklin District of Marshall County, West Virginia.
- On June 24, 2020 Tug Hill requested a waiver for Wetland W02 as outlined in Attachment 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the fracture permit applications for wells identified as API#s 47-51-01467, 47-51-01479, 47-51-01480, 47-51-01491 and 47-51-01492.

CONCLUSIONS OF LAW

- 1. West Virginia Code §22-1-6(d) requires, in part, that "in 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 "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 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 No. 2020-W-4

ORDER

West Virginia Code §22-6A-12(b) requires, in part, that "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. The Office of Oil and Gas grants the request for a waiver for Wetland W02 from well location restriction requirements in W. Va. Code §22-6A-12(b) for the fracture permit applications for wells identified as API#s 47-51-01467, 47-51-01479, 47-51-01480, 47-51-01491 and 47-51-01492. The Office of Oil and Gas hereby **ORDERS** that Tug Hill shall meet the following site construction and operational requirements for the Hendrickson 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 twenty-four inches (24") in height;
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs;
- c. Wetland W02 shall be protected by a layer of both Super Silt Fence and twenty four inch (24") compost filter sock This along with temporary and permanent vegetative cover will prevent sediment from reaching the wetlands
- d. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
- e. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill;
- f. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
- g. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;
- h. 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 ($\frac{1}{2}$ ") rain within any twenty-four (24) hour period;
- j. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;
- k. All records from inspections shall be maintained on site for the life of the project and be available upon request.

Thus ORDERED, the 8th day of October, 2020.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By: James Martin Digitally signed by James Martin Date: 2020.10.08 08:41:00 -04'00'

JAMES A. MARTIN, CHIEF

WW-6B (04/15) API NO. 47-951 - 01491
OPERATOR WELL NO. Hendrickson 3H
Well Pad Name: Hendrickson

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

1) Well Operator: Tug	Hill Operating, LLC	494510851	Marshall	Franklin	Wileyville 7.5'
A thousands		Operator ID	County	District	Quadrangle
2) Operator's Well Num	ber: Hendrickson 3H	Well F	ad Name: Her	drickson	
3) Farm Name/Surface C	Owner: Linda L. Hendr	ickson Public R	oad Access: Cl	R 76 (Rines	Ridge Road)
4) Elevation, current gro	und: 1220' I	Elevation, propose	d post-construc	tion: 1220'	
5) Well Type (a) Gas Other	x Oil _	Un	derground Stor	age	
(b)If Gas	s Shallow x	Deep			
	Horizontal x			he,	
6) Existing Pad: Yes or N	No yes			6/6/2	eoro
7) Proposed Target Form *Existing* Marcellus w	nation(s), Depth(s), Anti as the target formation w	The state of the s			of 4100 psi
8) Proposed Total Vertic	al Depth: 6,675'				
) Formation at Total Ve	ertical Depth: Ononda	ga	111		
0) Proposed Total Meas	sured Depth: 11,518'				
1) Proposed Horizontal	Leg Length: 4,284.98	3			
(2) Approximate Fresh V	Water Strata Depths:	60'			
13) Method to Determine	Fresh Water Depths:	Use shallow offset we'll to determine do	epest freshwater. Or determine us	ng predril tests, testing while	driling or petrophysical evaluation of resistivity.
(4) Approximate Saltwat	The second secon				
15) Approximate Coal So	eam Depths: Sewickle	y Coal - 935'; Pit	sburgh Coal -	1090'	
(6) Approximate Depth t	to Possible Void (coal n	nine, karst, other):	none		
17) Does Proposed well l directly overlying or adja			N	o <u>x</u>	
(a) If Yes, provide Min	e Info: Name:				
Secure and the second control	Depth:				RECEIVED OF ONLY
	Seam:				IIIAL G 4 DOOR
	Owner:				JUN Z 4 ZUZU
					Environmental France

WW-6B (04/15)

API NO. 47- <u>281 7 Û</u> OPERATOR WELL	21491	Λ1	A	9	1	F
OPERATOR WELL	NÔ.	Hendri	ckso	n 3H		•
Well Pad Name:	Hendri	ckson				

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	NEW	BW	BW	existing	40'	CTS
Fresh Water	13 3/8"	NEW	H40	48#	existing	1058'	957 ft^3(CTS)
Coal							
Intermediate	9 5/8"	NEW	J55	36#	existing	2,517'	950 ft^3 (CTS)
Production	5 1/2"	NEW	P110	20#	existing	11,518'	3073 ft^3(CTS)
Tubing	2 3/8"	NEW	N80	4.7#		6,168'	
Liners							

De/6/2020

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	20"	24"	.25"		existing	Type 1 + 3%CaCl	1.2 cuft/sack
Fresh Water	13 3/8"	17"	.33"	1730 psi	existing	See #22	1.2 Cuft/sack
Coal							
Intermediate	9 5/8"	12 1/4"	.352"	3520 psi	existing	See #22	1.2 Cuft/sack
Production	5 1/2"	8 7/8" & 8 3/4"	.361"	12,640 psi	existing	See #22	1.18 Cuft/sack
Tubing	2 3/8"		.19"	11,200 psi	existing		
Liners							

PACKERS

Kind:	N/A		
Sizes:	N/A		RECEIVED
Depths Set:	N/A		Office of Oil 2 d c

WV Department / Environmental Procedular WW-6B (10/14)

API NO. 47- 04 7 0 00 911 Û 14 3 1

Well Pad Name: Hendrickson

gr. 6/6/2020

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:	
Prep and refrac existing well with estimated volumes in #20.	
20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:	
Well to be completed with approximately 17,020,000 lb proppant and 263,142 bbl of water. Max 80 bpm; max psi = 9,000#.	x rate =
21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 30.63	
22) Area to be disturbed for well pad only, less access road (acres): 4.21	
23) Describe centralizer placement for each casing string:	
well previously drilled	
24) Describe all cement additives associated with each cement type:	
well previously drilled	
ACO D 11 1 1 1 1 1 1 1 1	
25) Proposed borehole conditioning procedures: *well previously drilled* *Giffice of Oil a	ŒD C
well previously drilled JUN 2 4	
WV Departm Environmental F	rotection



GASTAR EXPLORATION USA, INC.

Location: Marshall County, WV

Field: Marshall Facility: Hendrickson Slot: Slot #3 Well: Hendrickson 3H

Wellbore: Hendrickson 3H (PWB)

MD (ft) Inc (*) Az (*) TVD (ft) Local N (ft)

Mean Sea Level to Mud line (At Slot Slot #3): -1228 feet

Coordinates are in feet referenced to Slot



Longitude

CI

			Location	Information			
	Facility Name		Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
	Hendrickson		1711272,660	14434047.230	39"44'42,871"N	80°44'52.525"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Gnd North (US ft)	Latitude	Longitude	
Slo1#3	-16.25	-10.66	1711262,000	14434030.990	39"44'42 511"N	80"44'52.862"W	
Precision B	23 (RT) to Mud li	ne (At Slot. Slot	#3)		13ft		
Mean Sea I	evel to Mud line	(At Slot: Slot #3	-1228ft				
Precision B	23 (RT) to Mean	Sea Level			1241ft		

	Well Profile Data												
Design Comment	MD (ft)	inc (*)	Az (*)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (*/100ft)	VS (ft)					
Tie On	5653.00	0.800	324 430	5652.73	21 76	-18.77	0.00	-26.58					
End of Tangent	5775.40	0.800	324 430	5775.12	23.15	-19,77	0.00	-28.10					
End of 3D Arc	6239.96	46.000	200.000	6191.81	-140.28	-82.26	10,00	-10.00					
End of 3D Arc	7126 38	88 410	110.353	6596.02	-713.03	304.47	10 00	593.82					
End of Tangent	11523.79	88.410	110.353	6718.00	-2241.88	4425.75	0.00	4961.18					

	Hole and Casing Sections													
Name	Start MD (ft)	End MD (ft)	Interval (ff)	Start TVD (%)	End TVD (ft)	Start Local N (ft)	Start Local E (ft)	End Local N (ft)	End Local E (9)	Weitborn				
13.375in Cosing	18.00	1081.00	1048.00	13.00	1060.99	0.00	0.00	0.09	0.70	Hendrickson 3H (AWB)				
9.625in Casing	13.00	2520.00	2507 00	13.00	2519.94	0.00	0,00	1.49	661	(tendrickson 3H (AWB)				
5 Sin Casing	13.00	11523.00	11510.00	13.00	6717.98	0.00	0.00	-2241.60	6425 02	Hendrickson 3H (PVIB)				

	Targets											
Name	MD (R)	TVD (fil)	Local N (ff)	Local E (ft)	Ond East (US 1)	Ond North (USIN)	catture	Longitude				
Henondson 3H LP	7128.38	8696 02	715.03	304 47	(211586.35	14433318.24	3974435 455 N	60"44"4E 782"W				
Personcharon 3H PBHL Rev-1	1152379	B718 00	-2241 86	4425.75	1715686.00	16431790.00	39744120 2281N	60143:58.0897W				

	Tie-On Position										
MD (t)	Inc (°)	Az (*)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Lorgitude		
5853 00	0.800	324 430	5652.73	21 78	-18.77	1711243.23	14434052.74	38*44*42.726*N	60°44'52 901'W		

Bottom Hole Location

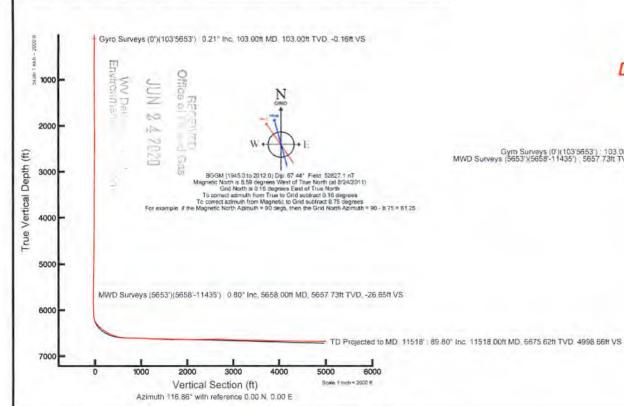
Grid East (US ft)

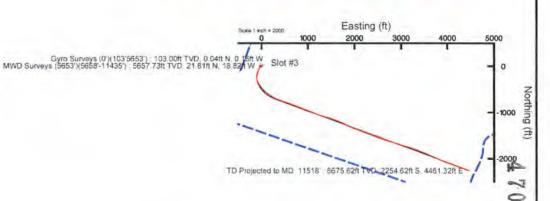
11523.79	88.410	110.353	6718.00	-2241.88	4425.75	1715686.00	14431790.00	39°44°20.228°N	50°43'56.089'W			
Plot refer	ence we	ellpath is l	No. 3H Re	v-A.0 (PWP)								
True vert	ical dept	ths are re	ferenced to	Precision 8	23 (RT)	Grid :	Grid System: NAD83 / UTM Zone 17 North, US feet					
Measured depths are referenced to Precision 823 (RT)						North	Reference: Gnd no	rth				
Precision	Precision 823 (RT) to Mean Sea Level 1241 feet						Scale True distance					

API#: 47-051-01491-00 Rig: Precision 823 BHI Job#: 4069090 Duration: 09/26/2011-10/02/2011

Depths are in feet

Created by: frisjest on 14/10/2011



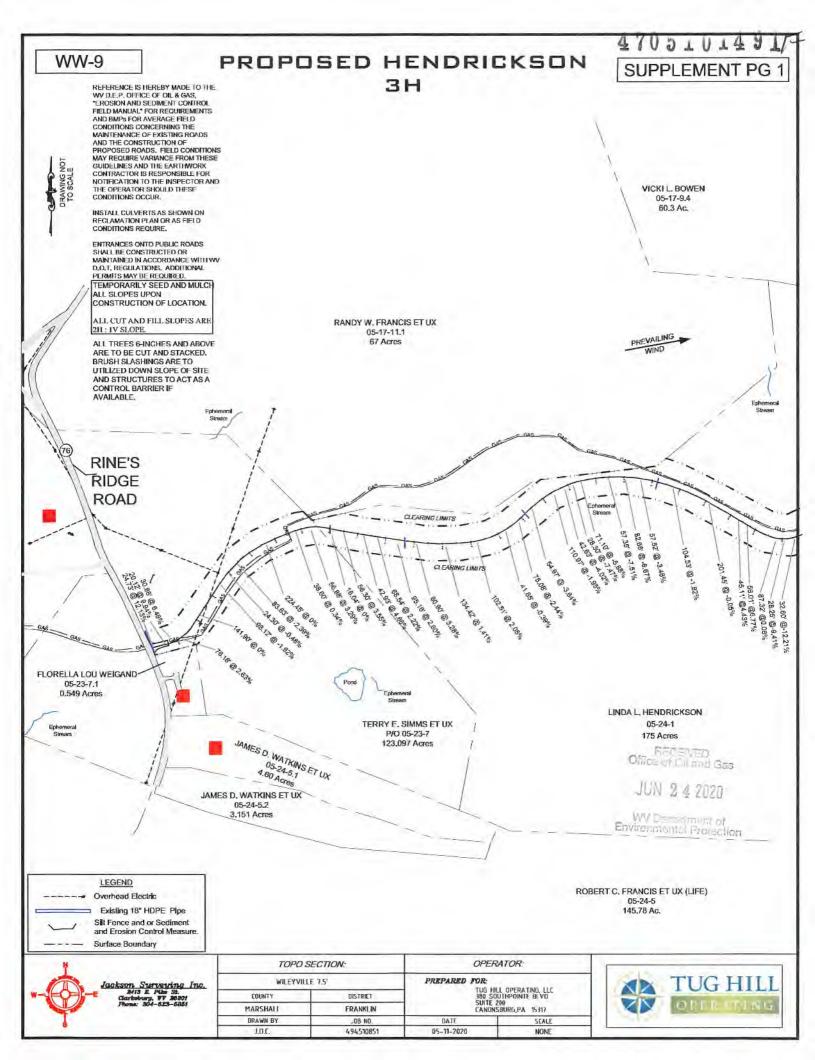


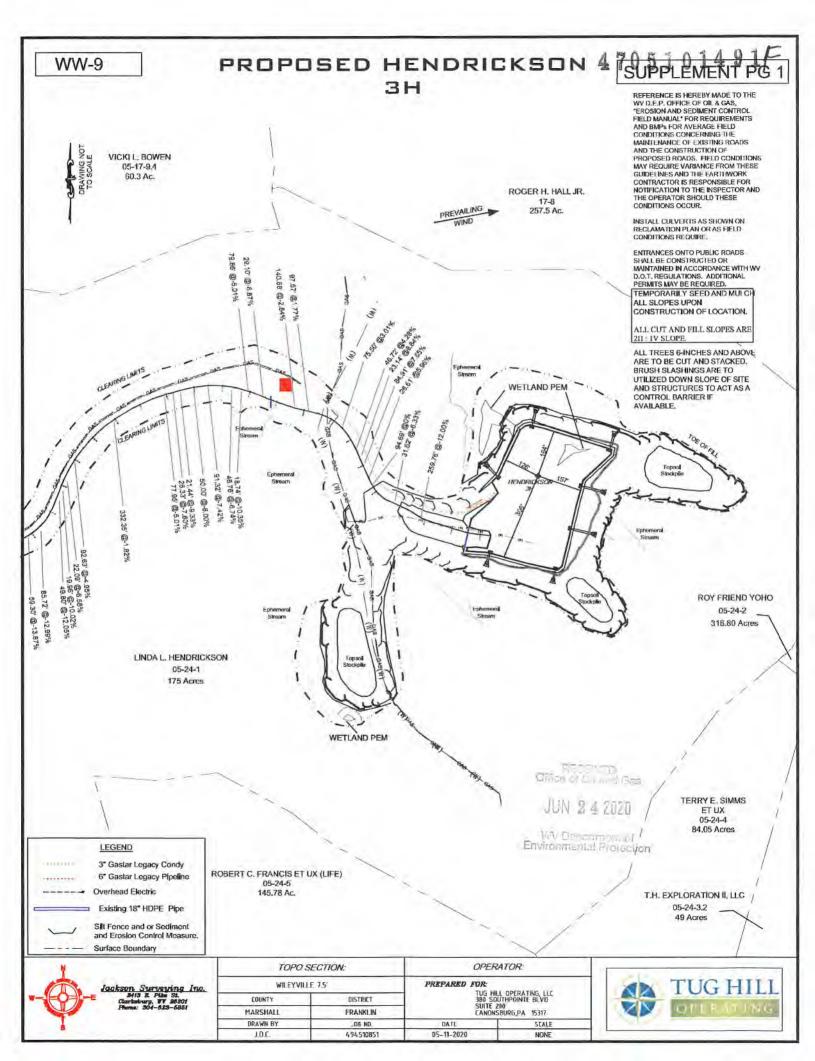
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Tug Hill Operating, LLC	OP Code 494510851
Watershed (HUC 10) Rocky Fork	Quadrangle Wileyville 7.5
Do you anticipate using more than 5,000 bbls of water to co Will a pit be used? Yes No V	omplete the proposed well work? Yes No
If so, please describe anticipated pit waste: AST Ta	anks with proper containment will be used for staging fresh water for frac and flow back water
Will a synthetic liner be used in the pit? Yes	No ✓ If so, what ml.? AST Tanks will be used with proper contain
Proposed Disposal Method For Treated Pit Wastes:	į.
Land Application Underground Injection (UIC Per Reuse (at API Number Off Site Disposal (Supply form V Other (Explain	ermit Number_ UIC 2459, UIC 965, UIC 359, UIC 2D0732540, UIC 2D0732523) WW-9 for disposal location)
Will closed loop system be used? If so, describe: No	
Drilling medium anticipated for this well (vertical and horiz	contal)? Air, freshwater, oil based, etcn/a
-If oil based, what type? Synthetic, petroleum, etc.	n/a
Additives to be used in drilling medium?n/a	
Drill cuttings disposal method? Leave in pit, landfill, remove	ved offsite, etcn/a
-If left in pit and plan to solidify what medium will	be used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number? n/a	
	nd Gas of any load of drill cuttings or associated waste rejected at any ided within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West provisions of the permit are enforceable by law. Violation law or regulation can lead to enforcement action. I certify under penalty of law that I have person application form and all attachments thereto and that, be obtaining the information, I believe that the information penalties for submitting false information, including the pos	and conditions of the GENERAL WATER POLLUTION PERMIT issued at Virginia Department of Environmental Protection. I understand that the as of any term or condition of the general permit and/or other applicable hally examined and am familiar with the information submitted on this based on my inquiry of those individuals immediately responsible for is true, accurate, and complete. I am aware that there are significant satisfied or imprisonment.
Company Official (Typed Name) James Pancake	JUN 2 4 2020
Company Official Title Vice President - Geoscience	MAY Donathment of
company outside the	Environmental Protection
Subscribed and sworn before me this 10 day of My commission expires	Notary Full tigotimonwealth of Pennsylvania - Notary Seal MAUREEN A STEAD - Notary Public Washington County My-Commission Expires Jan 28, 2023
	Commission Number 1259926

Proposed Revegetation Treatme	nt: Acres Disturbed 1	2.64 Prevegetation pH	6.0
Lime 3			
Fertilizer type 10-20-	_	спорн	
Fertilizer amount 500		11 - /	
		lbs/acre	
Mulch 2.5		_Tons/acre	
		Seed Mixtures	
Тетр	oorary	Perman	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Ryegrass	40	Orchard Grass	12
Spring Oats	96	Ladino	3
	will be land applied, incarea.	d application (unless engineered plans included under dimensions (L x W x D) of the pit, and	
Maps(s) of road, location, pit an provided). If water from the pit acreage, of the land application a Photocopied section of involved	will be land applied, incarea. 17.5' topographic sheet.	d application (unless engineered plans includ clude dimensions (L x W x D) of the pit, and	ing this info have been
Maps(s) of road, location, pit an provided). If water from the pit acreage, of the land application a Photocopied section of involved Plan Approved by:	will be land applied, incarea.	d application (unless engineered plans includ clude dimensions (L x W x D) of the pit, and	ing this info have been
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Well Site Safety Plan

Tug Hill Operating, LLC

Well Name: Hendrickson 3H

Pad Name: Hendrickson

gre/6/2020

Marshall County, West Virginia

UTM (meters), NAD83, Zone 17:

Northing: 4,399,500.39

Easting: 521,593.98

June 2020

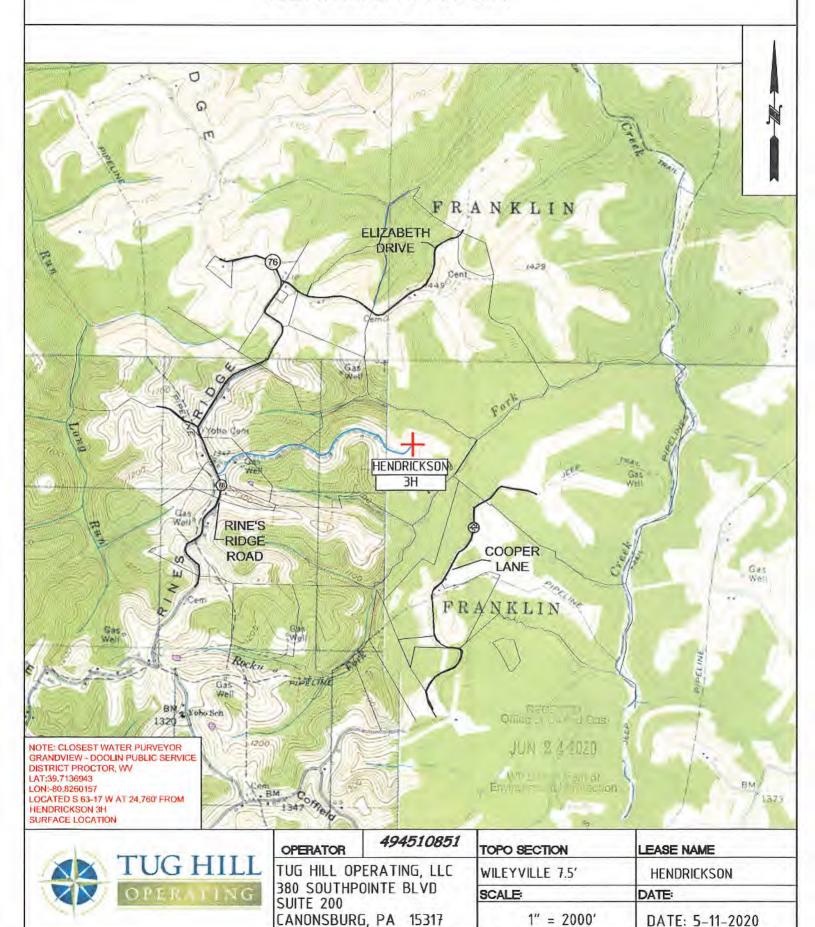
Office of Oil and Gas

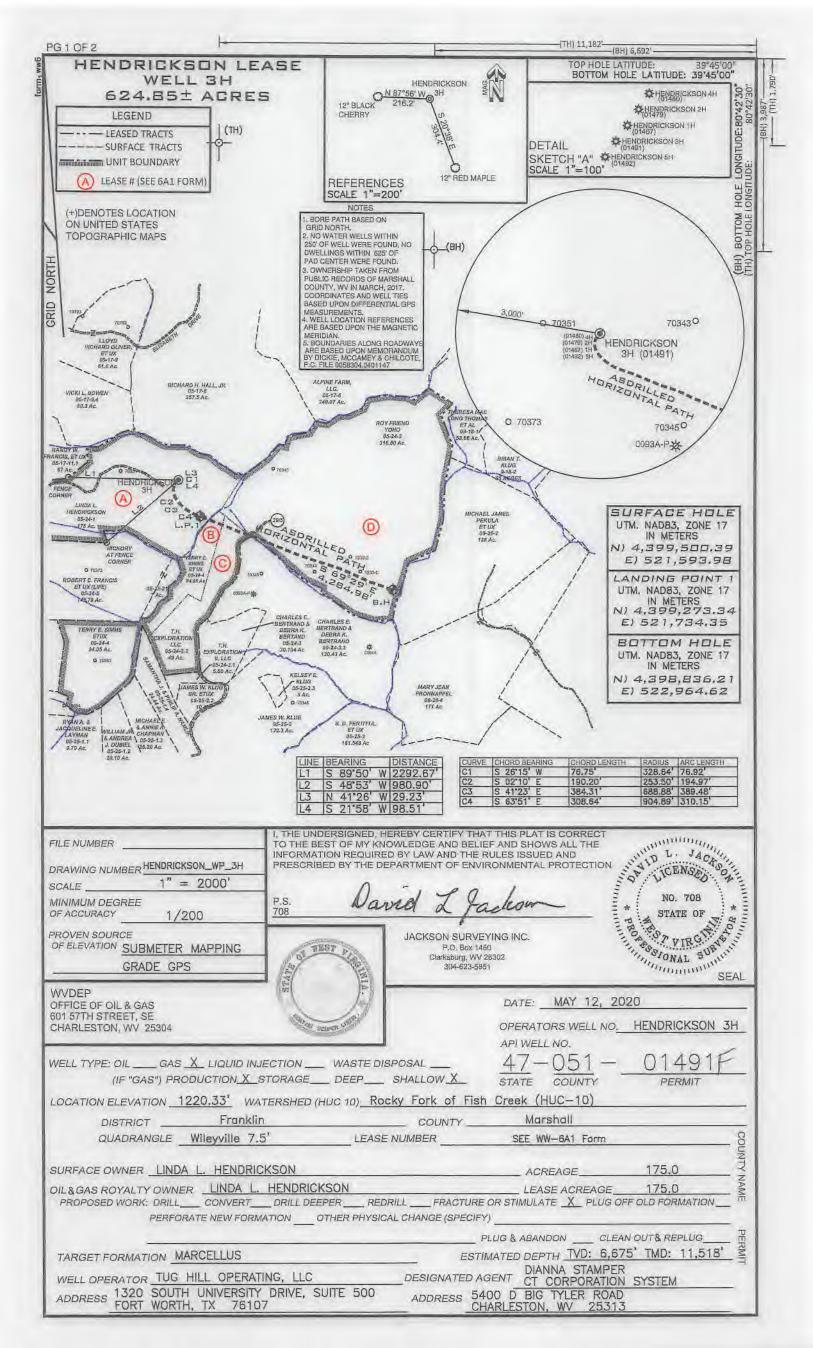
JUN 2 4 2020

WV Department of Environmental Protection WW-9

PROPOSED HENDRICKSON 3H

SUPPLEMENT PG 2





WW-6A1 (5/13)

Operator's Well No.	Hendrickson 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 or				
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page

*See attached pages

Office of Oil and Gas

JUN 2 4 2020

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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:

- 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:	Tug Hill Operating, LLC
By:	Amy L. Miller Wystulle
Its:	Permitting Specialist - Appalachia Region

WW-6A1 Supplement

Lease #	Parcel	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Be	ook/Page	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
/-	# T O T							TriEnergy Inc to AB	TriEnergy Inc to TriEnergy Holdings	AB Resources LLC to Chief Exploration & Development LLC & Radler 2000 LP:	Chief E&D LLC, and Radler 2000 LP to Enerplus Resources	TriEnergy Holdings	AB Resources LLC, Chief E&D LLC, Radler 2000 LP, Enerplus Resources to Gastar Exploration USA Inc & Atinum	Certificate of Merger -	Gastar Exploration Inc to TH Exploration II
10*14138	5-24-1	A	LINDA AND DONALD HENDRICKSON	TRIENERGY, INC.	1/8+	666	528	20/348	LLC: 21/148	21/491	(USA): 685/643	LLC: 720/214	1	Exploration Inc: 21/41	LLC: 36/9
9	5-24-4	В	JERRY ELDON RICHMOND	GASTAR EXPLORATION USA INC	1/8+	744	57	N/A	N/A	N/A	N/A	N/A	N/A	Certificate of Merger -	
10*14463	5-24-4	В	CHERYL ANN COCHRAN	GASTAR EXPLORATION USA INC	1/8+	744	231	N/A	N/A	N/A	N/A	N/A	N/A	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	Gastar Exploration Inc to TH Exploration II LLC: 36/9
10*14464	5-24-4	В	NIKA JEAN COCHRAN	GASTAR EXPLORATION USA INC	1/8+	744	59	N/A	N/A	N/A	N/A	N/A	N/A	Inc to Gastar	Gastar Exploration Inc to TH Exploration II LLC: 36/9
10*14465	5-24-4	В	LARRY RICHMOND	GASTAR EXPLORATION USA INC	1/8+	744	61	N/A	N/A	N/A	N/A	N/A	N/A	Inc to Gastar	Gastar Exploration Inc to TH Exploration II LLC: 36/9
10*14466	5-24-4	В	BETTY ROSE YOHO	GASTAR EXPLORATION USA INC	1/8+	749	580	N/A	N/A	N/A	N/A	N/A	N/A	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	to TH Exploration II
10*14467	5-24-4	В	DANA MILICIA HUMPHREYS	CHESAPEAKE APPALACHIA LLC	1/8+	694	351	N/A	N/A	N/A	N/A	N/A	Chesapeake Appalachia LLC & Statoil USA Onshore Properties Inc to Gastar Exploration USA Inc & Atinum Marcellus I LLC: 27/321		Gastar Exploration Inc to TH Exploration II LLC: 36/9
10*14468	5-24-4	В	TWILA ORA WHIPKEY	CHESAPEAKE APPALACHIA LLC	1/8+	692	416	N/A	N/A	N/Δ	N/A	Chesapeake Appalachia LLC to Statoil USA Onshore Properties Inc: 24/338	Chesapeake Appalachia LLC & Statoil USA Onshore Properties Inc to Gastar Exploration USA Inc & Atinum Marcellus I LLC: 27/321		to TH Exploration II

Office of Oil and Gas
JUN 2 4 2020

www Department of the Environmental Protection

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<u>ත</u>											3as [] of oction			
1 0 T 2 1	5-24-4	В	JACK R HAMMERS	CHESAPEAKE APPALACHIA LLC	1/8+	690	547	N/A	N/A	N/A	Office of Oil and 5 JUN 2 4 202 WV Department	N/A	· · · · · · · · · · · · · · · · · · ·	astar Exploration Inc TH Exploration II C: 36/9
10*14470	5-24-4	В	DONNA V YOHO	CHESAPEAKE APPALACHIA LLC	1/8+	690	645	N/A	N/A	N/A	N/A	N/A		astar Exploration Inc -TH Exploration II C: 36/9
10*14471	5-24-4	В	JANICE N HAUDENSCHILT	CHESAPEAKE APPALACHIA LLC	1/8+	691	501	N/A	N/A	N/A	N/A	N/A		astar Exploration Inc TH Exploration II C: 36/9
10*14472	5-24-4	В	O E BURGE AND SARAH L BURGE	CHESAPEAKE APPALACHIA LLC	1/8+	692	582	N/A	N/A	N/A	N/A	N/A		astar Exploration Inc TH Exploration II C: 36/9
10*14473	5-24-4	В	IMA LEE YOHO	CHESAPEAKE APPALACHIA LLC	1/8+	693	293	N/A	N/A	N/A	N/A	N/A		astar Exploration Inc TH Exploration II C: 36/9
10*14474	5-24-4	В	ROY FRIEND YOHO	CHESAPEAKE APPALACHIA LLC	1/8+	693	298	N/A	N/A	N/A	N/A	N/A	USA Inc & Atinum Inc to Gastar to	astar Exploration Inc TH Exploration II C: 36/9
10*14475	5-24-4	В	LAWRENCE E YOHO	CHESAPEAKE APPALACHIA LLC	1/8+	693	303	N/A	N/A	N/A	N/A	N/A	Chesapeake Appalachia LLC & Statoil USA Onshore Properties Inc to Gastar Exploration USA Inc & Atinum Marcellus I LLC: 27/321 Exploration Inc: 21/41 LLC	TH Exploration II

WW-5₹1 Supplement Operator's Well No. <u>Hendrickson 3H</u>

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10*14476		В	MARK W YOHO	CHESAPEAKE APPALACHIA LLC	1/8+	693	308	N/A	N/A	N/A	RECEIVEI Office of Oil an JUN 2 4 2 WV Department	12 13 12 13 14 15 15 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Chesapeake Appalachia LLC & Statoil USA Onshore Properties Inc to Gastar Exploration USA Inc & Atinum Marcellus I LLC: 27/321	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	to TH Exploration II
10*14477	5-24-4	В	NICOLETTA MILICIA BLOODWORTH	CHESAPEAKE APPALACHIA LLC	1/8+	694	117	N/A	N/A	N/A	N/A	N/A	Chesapeake Appalachia LLC & Statoil USA Onshore Properties Inc to Gastar Exploration USA Inc & Atinum Marcellus I LLC: 27/321	Gastar Exploration USA Inc to Gastar	Gastar Exploration Inc to TH Exploration II LLC: 36/9
10*14478	5-24-4	В	MILICIA A DEWEY	CHESAPEAKE APPALACHIA LLC	1/8+	694	347	N/A	N/A	N/A	N/A	N/A	Chesapeake Appalachia LLC & Statoil USA Onshore Properties Inc to Gastar Exploration USA Inc & Atinum Marcellus I LLC: 27/321	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	to TH Exploration II
10*14479	5-24-4	В	PAUL F HAMMERS	CHESAPEAKE APPALACHIA LLC	1/8+	697	148	N/A	N/A	N/A	N/A	N/A	Chesapeake Appalachia LLC & Statoil USA Onshore Properties Inc to Gastar Exploration USA Inc & Atinum Marcellus I LLC: 27/321	Gastar Exploration USA Inc to Gastar	Gastar Exploration Inc to TH Exploration II LLC: 36/9
10*14480	5-24-4	В	ERICA M MASON	CHESAPEAKE APPALACHIA LLC	1/8+	713	610	N/A	N/A	N/A	N/A	N/A	Chesapeake Appalachia LLC & Statoil USA Onshore Properties Inc to Gastar Exploration USA Inc & Atinum Marcellus I LLC: 27/321	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	Gastar Exploration Inc to TH Exploration II LLC: 36/9
10*14481	5-24-4	В	TONI JO MASON LIVING TRUST	CHESAPEAKE APPALACHIA LLC	1/8+	716	619	N/A	N/A	N/A	N/A	N/A	Chesapeake Appalachia LLC & Statoil USA Onshore Properties Inc to Gastar Exploration USA Inc & Atinum Marcellus I LLC: 27/321	Gastar Exploration USA Inc to Gastar	Gastar Exploration Inc to TH Exploration II LLC: 36/9
10*14068	5-24-3.2	С	ROHN JEAN MARTIN	GASTAR EXPLORATION USA INC	1/8+	666	552	N/A	N/A	N/A	N/A	N/A	N/A	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	to TH Exploration II

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10*1 20 59	5-24-3.2	С	SHARON E YOHO	GASTAR EXPLORATION USA INC	1/8+	708	193	N/A	N/A	N/A	N 2 4 20	N/A	N/A	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	to TH Exploration II
10*14070	5-24-3.2	С	CLAUDIA R SCHEEHLE	GASTAR EXPLORATION USA INC	1/8+	708	197	N/A	N/A	N/A	Offig W W Environ	N/A	N/A	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	to TH Exploration II
10*14071		С	SHIRLEY M DORSEY AND WILLIAM DORSEY	GASTAR EXPLORATION USA INC	1/8+	708	187	N/A	N/A	N/A	N/A	N/A	N/A	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	to TH Exploration II
10*14072	5-24-3.2	с	CHARLES ROBERT MYERS	GASTAR EXPLORATION USA INC	1/8+	708	189	N/A	N/A	N/A	N/A	N/A	N/A	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	to TH Exploration II
10*14073	5-24-3.2	С	RICHARD WHITE II & GLORIA J WHITE	GASTAR EXPLORATION USA INC	1/8+	708	195	N/A	N/A	N/A	N/A	N/A	N/A	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	to TH Exploration II
10*14074	5-24-3.2	с	JANE N FISHER AND LEX FISHER	GASTAR EXPLORATION USA INC	1/8+	710	604	N/A	N/A	N/A	N/A	N/A	N/A	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	to TH Exploration II
10*14075	5-24-3.2	С	SHIRLEY K WHITE	GASTAR EXPLORATION USA INC	1/8+	708	201	N/A	N/A	N/A	N/A	N/A	N/A	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	to TH Exploration II
10*14076	5-24-3.2	С	PATRICIA CROW AGENT & AIF FOR VERLA SHUTLER	GASTAR EXPLORATION USA INC	1/8+	710	63	N/A	N/A	N/A	N/A	N/A	N/A	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	to TH Exploration II
10*14077	5-24-3.2	С	WILLIAM FRANK TORRES	GASTAR EXPLORATION USA INC	1/8+	710	72	N/A	N/A	N/A	N/A	N/A	N/A	Certificate of Merger -	Gastar Exploration Inc to TH Exploration II
10*14078	5-24-3.2		CAROL VASS	GASTAR EXPLORATION USA INC	1/8+	710	74	N/A	N/A	N/A	N/A	N/A	N/A	Certificate of Merger -	Gastar Exploration Inc
10*14079		С	JON & SUSAN NEWMAN	GASTAR EXPLORATION USA INC	1/8+	710	76	N/A	N/A	N/A	N/A	N/A	N/A	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	Gastar Exploration Inc to TH Exploration II

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10*14080	5-24-3.2	С	EDITH OBLINGER	GASTAR EXPLORATION USA INC	1/8+	714	133	N/A	N/A	N/A	E18	V Departmon	N/A	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	to TH Exploration II
I _	5-24-3.2	С	STEVEN L & CAROL J NEWMAN	GASTAR EXPLORATION USA INC	1/8+	724	50	N/A	N/A	N/A	Ö N/A	Envir	N/A	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	Gastar Exploration Inc to TH Exploration II LLC: 36/9
10*14082	5-24-3.2	С	PAUL E & LYNN E BARCUS JR	GASTAR EXPLORATION USA INC	1/8+	734	455	N/A	N/A	N/A	N/A	N/A	N/A	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	to TH Exploration II
10*14083	5-24-3.2	С	JAN L ODONNELL	GASTAR EXPLORATION USA INC	1/8+	739	415	N/A	N/A	N/A	N/A	N/A	N/A	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	Gastar Exploration Inc to TH Exploration II LLC: 36/9
10*14084	5-24-3.2	С	ROGER A & LAURA J MAY	GASTAR EXPLORATION USA INC	1/8+	741	643	N/A	N/A	N/A	N/A	N/A	N/A	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	to TH Exploration II
10*14085	5-24-3.2	С	BRAD EYNON	GASTAR EXPLORATION USA INC	1/8+	741	645	N/A	N/A	N/A	N/A	N/A	N/A	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	Gastar Exploration Inc to TH Exploration II LLC: 36/9
10*14086	5-24-3.2	С	BRUCE BAILEY	GASTAR EXPLORATION USA INC	1/8+	741	647	N/A	N/A	N/A	N/A	N/A	N/A	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	to TH Exploration II
10*14087	5-24-3.2	С	GERALD H COOPER	GASTAR EXPLORATION USA INC	1/8+	748	464	N/A	N/A	N/A	N/A	N/A	N/A	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	Gastar Exploration Inc to TH Exploration II LLC: 36/9
10*14088	5-24-3.2	С	GREGORY T COOPER	GASTAR EXPLORATION USA INC	1/8+	748	466	N/A	N/A	N/A	N/A	N/A	N/A	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	to TH Exploration II
10*14089	5-24-3.2	с	ROBERT LOHR	GASTAR EXPLORATION USA INC	1/8+	748	317	N/A	N/A	N/A	N/A	N/A	N/A	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	Gastar Exploration Inc to TH Exploration II LLC: 36/9
10*14090	5-24-3.2	С	CATHERINE R KLUG PAUL FOX - POWER OF ATTORNEY	GASTAR EXPLORATION USA INC	1/8+	762	454	N/A	N/A	N/A	N/A	N/A	N/A	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	to TH Exploration II

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7 10*14091	5-24-3.2	С	AGNES C KLUG	Gastar exploration USA Inc	1/8+	762	456	N/A	N/A	N/A	Office of	Environment	N/A	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	Gastar Exploration Inc to TH Exploration II LLC: 36/9
	5-24-3.2	с	HAYHURST COMPANY A FLORIDA PARTNERSHIP	CHESAPEAKE APPALACHIA LLC	1/8+	716	611	N/A	N/A	N/A	N/A	N/A	Chesapeake Appalachia LLC & Statoil USA Onshore Properties Inc to Gastar Exploration USA Inc & Atinum Marcellus I LLC: 24/204		to TH Exploration II
10*14094	5-24-3.2	С	GASPARE A INGRASSELINO	GASTAR EXPLORATION INC	1/8+	839	528	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Gastar Exploration Inc to TH Exploration II LLC: 36/9
10*14024	5-24-2	D	ROY FRIEND YOHO AND DARLENE J YOHO	GASTAR EXPLORATION USA INC	1/8+	665	508	N/A	N/A	N/A	N/A	N/A	N/A	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	to TH Exploration II
10*14025	5-24-2	D	NANCY CAROL GIBSON	GASTAR EXPLORATION USA INC	1/8+	697	87	N/A	N/A	N/A	N/A	N/A	N/A	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	to TH Exploration II
10*14026	5-24-2	D	CONRAD S YEATER	GASTAR EXPLORATION USA INC	1/8+	697	91	N/A	N/A	N/A	N/A	N/A	N/A	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	to TH Exploration II
10*14027	5-24-2	D	HILDA R CONNER RUNYAN	GASTAR EXPLORATION USA INC	1/8+	697	89	N/A	N/A	N/A	N/A	N/A	N/A	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	to TH Exploration II
10*14028	5-24-2	D	WILDA L CLARK	GASTAR EXPLORATION USA INC	1/8+	697	83	N/A	N/A	N/A	N/A	N/A	N/A	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	to TH Exploration II
10*14029	5-24-2	D	MARY MAXINE CLARKE	GASTAR FXPI ORATION LISA INC	1/8+	697	85	N/A	N/A	N/A	N/A	N/A	N/A	Certificate of Merger - Gastar Exploration USA Inc to Gastar Exploration Inc: 21/41	to TH Exploration II

WHEN RECORDED RETURN TO: TH Exploration II, LLC 1320 South University Drive, Suite 500 Fort Worth, Texas 76107 Attn: David Kalish MARSHALLyCourty 11:62:18 4 9 1
Instrument No 1403489
Date Recorded 04/27/2016
Document Type ASN
Pages Recorded 77
Book-Page 36-9
Recording Fee \$77.00
Additional \$13.00

Execution Version

ASSIGNMENT AND BILL OF SALE

STATE OF WV § KNOW ALL MEN BY THESE PRESENTS: COUNTY OF MARSHALL §

THIS ASSIGNMENT AND BILL OF SALE (this "Assignment"), dated April 7, 2016, but effective as of 7:00 A.M. Houston time on January 1, 2016 (the "Effective Time"), is between Gastar Exploration Inc., a Delaware corporation, whose address is 1331 Lamar Street, Suite 650 Houston, Texas 77010 ("Assignor"), and TH Exploration II, LLC, a Texas limited liability company, whose address is 1320 South University Drive, Suite 500, Fort Worth, Texas 76107 ("Assignee"). Assignor and Assignee are each, individually, referred to herein as a "Party" and, collectively, as the "Parties".

Capitalized terms used but not defined herein shall have the respective meanings set forth in that certain Purchase and Sale Agreement (the "Purchase Agreement"), dated as of February 19, 2016, by and between Assignor and Assignee (as successor-in-interest).

Section 1. <u>Assignment</u>. The conveyance and assignment herein shall be deemed effective as of the Effective Time.

For Ten Dollars (\$10.00) and other good and valuable consideration (the receipt and sufficiency of which are hereby acknowledged), Assignor does hereby forever GRANT, BARGAIN, SELL, CONVEY, ASSIGN, TRANSFER, SET OVER AND DELIVER unto Assignee, all of Assignor's right, title and interest in and to the following interests and properties (such right, title and interest described in *subsections* (a) through (k) of this Section 1, less and except the Excluded Assets, collectively, the "Conveyed Interests"):

- (a) all oil, gas and/or mineral leases of Assignor, together with any and all other right, title and interest of Assignor in and to the leasehold estates created thereby, including subleases, royalties, overriding royalties, net profits interest, carried interests or similar rights or interests in such leases, and together with all rights, privileges, benefits and powers conferred upon Assignor with respect to the use and occupation of the lands covered thereby that may be necessary, convenient or incidental to the possession and enjoyment of such leases, located in Marshall, Wetzel, Doddridge, Harrison, Lewis, Marion, and Monongalia Counties, West Virginia and Greene, Butler, Fayette, Somerset, and Clearfield Counties, Pennsylvania, including those described on Exhibit A—Part 1 attached hereto (subject to any reservations, limitations or depth restrictions described on Exhibit A—Part 1), (Assignor's interest in such leases and other right, title and interest as so limited, the "Leases");
- (b) all rights and interests in, under or derived from all unitization agreements in effect with respect to any of the Leases and the units created thereby, including those described ECEIVED Office of Oil and Gas

JUN 2 4 2020



June 18, 2020

WV Department of Environmental Protection Office of Oil & Gas 601 57th Street, SE Charleston, WV 25304 Attention: Laura Adkins

RE: Hendrickson 3H

Subject: Road Crossing Letter

Dear Laura:

Tug Hill Operating, LLC will not be drilling, extracting or producing any minerals under any WV County or State Routes in the area reflected on the Hendrickson 3H well plat.

If your office has any questions or concerns regarding the contents of this letter, please do not hesitate to contact me directly at 304-376-0111, or by email at amiller@tug-hillop.com.

Sincerely,

Amy L. Miller

Permitting Specialist - Appalachia Region

Office of Oil and Gas

JUN 2 4 2020

WV Department of Environmental Protection

RECEIVED

RECEIVED

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

Date of fron	ce Ceruncation: an incase	Art	NO. 4/- 001 - 11	912			
		Oper	Operator's Well No. Hendrickson all				
		Well	Pad Name: Hendrid	ckson			
Notice has	been given:						
	ne provisions in West Virginia Code	22-6A, the Operator has provided	the required parties	with the Notice Forms lists			
	tract of land as follows:		NAME OF TAXABLE PARTY.				
State:	West Virginia	UTM NAD 83 Easti	ng: 521,593.98				
County:	Marshall	OTWINAD 83 Nort	OTM NAD 83 Northing: 4,399,500,39				
District: Franklin Quadrangle: Wileyville 7.5"		Public Road Access:	Ridge Road) ickson				
		Generally used farm na					
Watershed:	Rocky Fork of Fish Creek (HUC-10)						
requirements Virginia Cod	surface owner notice of entry to su of subsection (b), section sixteen o e § 22-6A-11(b), the applicant shall t have been completed by the applican	f this article were waived in writh ender proof of and certify to the sec	ng by the surface of	wner; and Pursuant to Wi			
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the require ECK ALL THAT APPLY		tice Certification	OOG OFFICE USE ONLY			
□ I. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED B SEISMIC ACTIVITY WAS CON		RECEIVED/			
■ 2. NO	TICE OF ENTRY FOR PLAT SURV	EY or D NO PLAT SURVEY W	AS CONDUCTED	☐ RECEIVED			
☐ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED IN NOTICE OF ENTRY FOR PLAT WAS CONDUCTED OF		RECEIVED/ NOT REQUIRED			
		☐ WRITTEN WAIVER BY SU (PLEASE ATTACH)	JRFACE OWNER				
■ 4. NO	TICE OF PLANNED OPERATION		The City	☐ RECEIVED			
			10 L S TOWN				

Required Attachments:

■ 5. PUBLIC NOTICE

■ 6. NOTICE OF APPLICATION

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 Amy L. Miller , 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 penaltics for submitting false information, including the possibility of fine and imprisonment.

Well Operator: Tug Hill Operating, LLC

By: Amy L. Miller WWY

Its: Permitting Specialist

Telephone: 724-749-8388

Address: 380 Southpointe Boulevard, Plaza II, Suite 200

Canonsburg, PA 15317

Facsimile: 724-838-2030

Email: amiller@tug-hillop.com

NOTARY SEAL

Commonwealth of Pennsylvania - Notary Seal Chester Arthur West IV, Notary Public Washington County My commission expires February 10, 2024 Commission number 1267179

Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this

Notary Public

My Commission Expires

-10.7024

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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.

Office of Olland Gas

JUN 2 4 2020

W// Dept forent of Environmental Frage 11 in

API NO. 47- ⁰⁵¹ -	
OPERATOR WELL NO. Hendrickson 3H	_
Well Pad Name: Hendrickson	

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: 6/16/2020 Date Permit Application Filed: 6/20/2020 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) ☐ PERSONAL ☐ REGISTERED ☑ METHOD OF DELIVERY THAT REQUIRES A **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. W. Va. 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. ☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice ☐ Well Plat Notice is hereby provided to: ☐ SURFACE OWNER(s) M COAL OWNER OR LESSEE RECEIVED Office of Oil and Gas Name: Linda L. Pickering Hendrickson & Donald Ray Hendrickson Name: CONSOL Energy Address: 10 Susquehanna Road (Access Road and Well Pad) Address: 1000 Consol Energy Drive — JUN 24 2020 Canonsburg, PA 15317 Wellsburg, WV 26070 COAL OPERATOR Name: WV Department of Name: _____ Address: Environmental Protection Address: ☐ SURFACE OWNER(s) (Road and/or Other Disturbance) Name: Terry E. Simms & Deborah L. Simms (Access Road) ☑ SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s) Address: 7175 Rines Ridge Road Proctor, WV 26055 Name: Linda L. Pickering Hendrickson & Donald Ray Hendrickson Address: 10 Susquehanna Road Name: Wellsburg, WV 26070 Address: **DOPERATOR OF ANY NATURAL GAS STORAGE FIELD** ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: Address: Name: Address: *Please attach additional forms if necessary

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JUN 2 4 2020

API NO. 47- 051

OPERATOR WELL NO. Hendrickson 3H

Well Pad Name: Hendrickson

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 www.dep.wv.gov/oil-10.aspx, 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 located within six consumption. hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

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API NO. 47-051

OPERATOR WELL NO. Hendrickson 3H

Well Pad Name: Hendrickson

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 secretary. (e) 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 water 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 proximately 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 applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Office of Oil and Gas

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

JUN 2 4 2020

WV Department of Environmental Protection

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.

API NO. 47-05 4 70 5 1 0 14 9 1 F

OPERATOR WELL NO. Hendrickson 3H
Well Pad Name: Hendrickson

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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 determines that:

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

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

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

Office of Olland Gas

JUN 2 4 2020

WV Decouvery of Environmental rual state

API NO. 47-051 OPERATOR WELL NO. Hendrickson 3H
Well Pad Name: Hendrickson

Notice is	hereby	given	by:
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Well Operator: Tug Hill Operating, LLC

Telephone: 724-749-8388

Email: amiller@tug-hillop.com

any stile

Address: 380 Southpointe Boulevard, Plaza II, Suite 200

Canonsburg, PA 15317

Facsimile: 724-338-2030

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.

Commonwealth of Pennsylvania - Notary Seal Chester Arthur West IV, Notary Public Washington County My commission expires February 10, 2024

Commission number 1267179

Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this /64 day of Jun, 2020

Notary Public

My Commission Expires

2-10-2024

Office of Oil and Gas

JUN 2 4 2020

WV Department of Environmental Procession WW-6A

Supplement Pg. 1A

Tug Hill Operating, LLC 380 Southpointe BLVD, Suite 200 Canonsburg, PA 15317

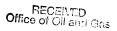
WATER WELL REPORT

Well: HENDRICKSON 3H

District: Franklin County: Marshall State: WV

There appears to be One (1) possible water source within 2,000 feet of the above referenced well location.

Topo Spot # 1 05-24-1 Linda L. Hendrickson 304-737-3468 (H) 171 Navajo Rd. Wellsburg, WV 26070	



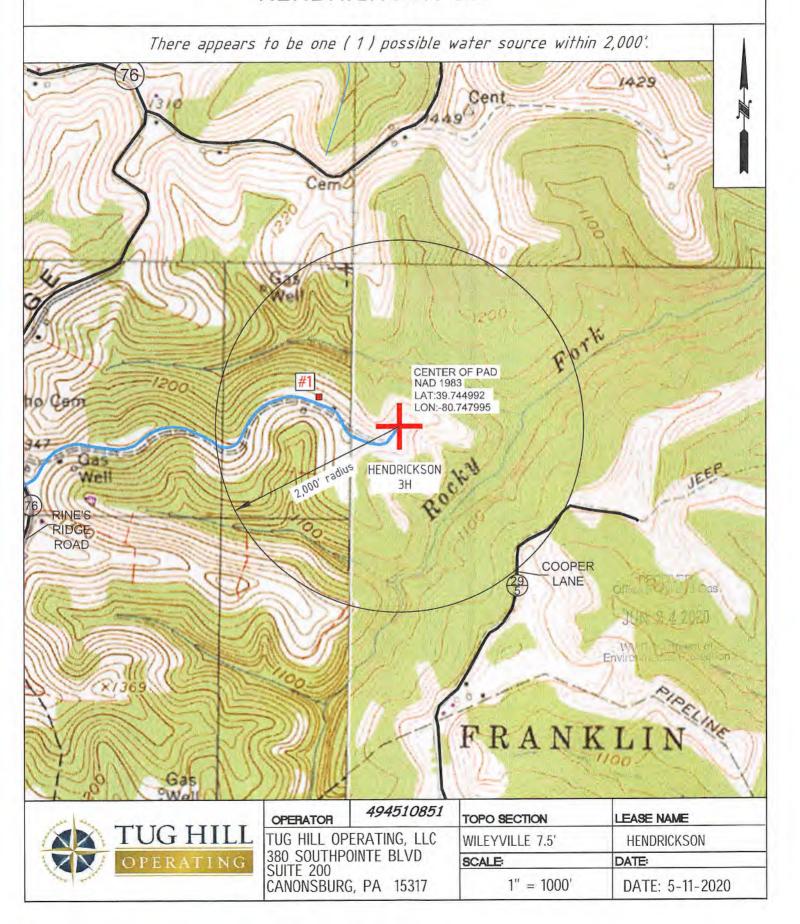
JUN 2 4 2020

WV Department of Environmental Programs

WW-6A

PROPOSED HENDRICKSON 3H

SUPPLEMENT PG 1



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

	e Time I	Requirement:	Notice shall be prov	ided at	least SEVEN (7) da	ys but no more that	n FORTY-FIVE	(45) days prior to			
entry Date	of Notice	e: 6/10/2020	Date of Plan	ned E	ntry: 6/17/2020						
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		by provided t	0:								
		E OWNER(s)				L OWNER OR LE	SSEE				
			Simms (Access Road)			Name; CONSOL Energy					
		Rines Ridge Road	1		min defend account	Address: \1000 Consol Energy Drive					
	WV 26055		n & Donald Ray Hendrickson	2	Canonsburg, I	PA 15317		_			
Name	Linda L. F	squebanna Road (A	rcess Road and Well Padi		■ MINI	ERAL OWNER(s)					
Address: 10 Susquehanna Road (Access Road and Well Pad) Wellsburg, WV 26070						Name: Linda L. Pickering Hendrickson & Donald Ray Hendrickson					
Name						10 Susquehanna Road	O Donald (10) Horisman				
Addre	-			3		Wellsburg, WV 26070					
					*please attac	h additional forms if ne	cessary	_			
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Count	-	Marshall		_	Watershed:	Todoss.	Rocky Fork of Fish Creek (HUC-10)				
District: Franklin Quadrangle: Wileyville 7.5"				Generally used farm name: Linda L. Hendrickson							
		state Frasian a	nd Sediment Control	Manu	al and the statutes an	d rules related to o	il and gas explorat	tion and production			
may t Charl	eston, W	ed from the Se V 25304 (304	cretary, at the WV D -926-0450). Copies	of sucl	nent of Environmenta n documents or addit v/oil-and-gas/pages/	ional information r	uarters, located at related to horizonta	al drilling may be			
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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 deprivacyofficer@wv.gov.

41051014916

Additional Parties to Notice (WW-6A3) Hendrickson Pad

Mineral Owners

Evelyn C. Lady	Sharon S. Darwish
2003-5 Meadowlark Rd	113 Leatherwood Dr
Manhattan, KS 66502	Moundsville, WV 26041
Shelly Mysliwiec 73 Durwood Ct Moundsville, WV 26041	Trudi Blake 30≥ 9th St. Glen Dale, WV 26038

RECEIVED
Office of Oil and Gas

JUN 2 4 2020

WV Department of Environmental Protection

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

	CERTIFI	ED MAIL		HAND			
	RETURN	N RECEIPT REQUESTED		DELIVERY			
return the pla require drillin damag	receipt re anned op ed to be p g of a ho ges to the se notices	Va. Code § 22-6A-16(c), no la equested or hand delivery, give the eration. The notice required by provided by subsection (b), sectionizontal well; and (3) A propose surface affected by oil and gas or required by this section shall be	this some the surface of the surface	ce owner whose land absection shall inclu if this article to a surface use and compen- us to the extent the da	d will be used for de: (1) A copy ace owner whose sation agreement amages are comp	or the drilling of a hor of this code section; he land will be used in t containing an offer pensable under article	rizontal well notice of (2) The information a conjunction with the of compensation for e six-b of this chapter.
		y provided to the SURFACE (
		listed in the records of the sheriff ckering Hendrickson & Donald Ray Hendrickson			Terry E. Simms & Deb	orah I Simme	
		kenng hendackson a Donaid Ray hendackson		Name:	(erry E. Simins & Del	Cran L. Simins	
			_			Road	
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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.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

June 22, 2020

Byrd E. White, III Secretary of Transportation/ Commissioner of Highways

> Jimmy Wriston, P. E. Deputy Secretary/ Deputy Commissioner

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

Subject: DOH Permit for the Hendrickson Pad, Marshall County Hendrickson 3H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2011-0175 which has been issued to Tug Hill Operating for access to the State Road for a well site located off Marshall County Route 76 SLS.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018.

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Amy Miller Tug Hill Operating

CH, OM, D-6

File



PLANNED ADDITIVES TO BE USED IN FRACTURING OR STIMULATION

Well No. Hendrickson 3H

PRODUCT NAME: CHEMICAL DESCRIPTION: PRODUCT USE: HAZARDOUS COMPONENT:

GBW-20C Hemicellulase Breaker Breaker - Water None

ALPHA 1427 Biocide Glutaraldehyde – CAS#000111-30-8

Quaternary ammonium chloride

CAS# 007173-51-5

Alky dimethyl benzyl ammonium Chloride (C12-16) – CAS#068424-85-1

Ethanol – CAS# 000064-17-5 Water – CAS# 007732-18-5

FRAC SAND Silica Sand (various Mesh Proppant Crystalline silica (quartz)

sizes) CAS# 14808-60-7

S-8C, Sand Silica Sand (100 mesh) Sand Silica – CAS# 14808-60-7

GW-3LDF Gellant - Water Petroleum Distillate Blend – Proprietary,

(Not Associated with Diesel Fuel) Guar gum – CAS# 009000-30-0

FRW-18 Friction Reducer Hydrotreated light distillate

CAS# 064742-47-8

Scaletrol Scale Inhibitor Ethylene glycol – CAS# 000107-21-1

Diethylene glycol - CAS# 000111-46-6

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47-051-01491F Operator's Well No. Hendrickson 3H

Area of Review

Sources of information to Support 35CSR8 - 5.11: 9.3 et seg.

already led

Description of process to identify potential pathways for well communication during hydraulic fracturing activities.

Data Sources Reviewed:

- 1. IHS Well Data service: Public nationwide data service that pulls directly from State agency Oil and Gas databases
- 2. Farm Maps
- 3. Topo Maps: Recent and older (contact WVGES)
- 4. Check with DPS

Contacted Adam Picard (724) 485-9331, apicard@dpslandservices.com, DPS GIS (06/18/2020) to have him make maps of the wellbores with his information. DPS utilizes WVGES maps for their mapping seems it as the best publicly available. See attached map he provided.

Request maps for:

- 1. Wellbore with IHS All Wells Layer
- 2. Map with Farm lines overlain and any well spots identified on Farm Maps
- 3. More recent (1970s vintage) topos and older topos

Discussion with Phil Dinterman WVGES GIS Department (7/15/2016)

- WVGES has plotted every well spot they have access to and are aware of with that contains a coordinate. 30000, 70000, and 90000 series wells are available via the WVGES online map. Some locations aren't great due to vintage and manipulation of maps through time
- 30000 series any well drilled prior to 1929 APIs were not assigned to original wells
- 70000 series Well spots pulled from old Farm line maps that the WVGES has access to
- 90000 series Any sources that the WVGES has access that shows a well spot but has no additional supporting information. DEP does not have 90000 series on their maps.
- There can be duplication between wells in the 3 series
- Phil indicated that other Operators are providing a screenshot of the WVGES map with their planned well and using that for permits

WVDE

Permit well - Hendrickson 3H

CNX Gas Co. LLC

(North)

CNX Gas Co. LLC

(North)

Unknown

Unknown

Unknown

Unknown

Unknown

47-051-01232

47-051-01233

Wells within 500' Buffer
Note: Well spots depicted on Area of Review map are derived from State held coordinates. The spots may differ from those depicted on the Well Plat because the Plat locations represent actual field surveyed locations. Please refer to the Plat for surveyed well spots.

Is this well "known or reasonably expected to penetrate a depth that could be within the Producing range of Fracture propagation"? 1000' is max Perforated zones not limit I would assign to wells that might be perforated within in range of fracture propagation API Number Operator Name Total Depth Fms Comments Yes, this is a producing Marcellus horizontal 12395' TVD Tug Hill Operating, 47-051-01480 Marcellus Unknown well. Proper casing and cement should prevent Hendrickson 4H LLC 6692' MD migration of fluids between wellbores. Yes, this is a producine Marcellus horizontal Tug Hill Operating, 11924' TVD 47-051-01479 Marcellus well. Proper casing and cement should prevent 6676' MD LLC migration of fluids between wellbores. Yes, this is a producing Marcellus horizontal Tug Hill Operating, LLC 11434' TVD 47-051-01467 Marcellus Unknown well. Proper casing and cement should prevent migration of fluids between wellbores. Hendrickson 1H 6670' MD Yes, this is a producing Marcellus horizontal Tug Hill Operating, 11518' TVD 47-051-01491 well. Proper casing and cement should prevent migration of fluids between wellbores. Marcellus Unknown Hendrickson 3H 6675' MD Yes, this is a producing Marcellus horizontal Tug Hill Operating, 12410' TVD 47-051-01492 Marcellus Unknown Hendrickson 5H well. Proper casing and cement should prevent LLC 6672' MD migration of fluids between wellbores. Unknown but unlikley. The well likley represents an old shallow well that is too 47-051-70344 Unknown Unknown Unknown State records are incomplete. Unknown shallow to be effected by fracturing in the Marcellus well. Unknown but unlikley. The well likley

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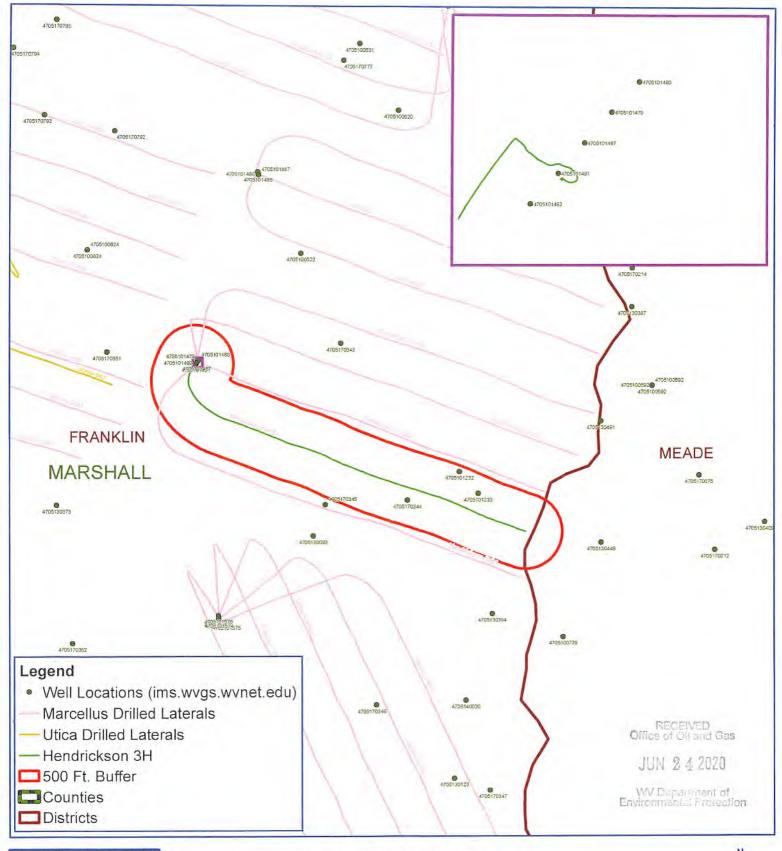
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Hendrickson 3H Franklin District Marshall County, WV



Notes: All locations are approximate and are for visualization purposes only





