

#### 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

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

Monday, March 29, 2021 WELL WORK PERMIT Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359 SPRING, TX 773914954

Re: Permit approval for GLADYS BRIGGS MSH 405H 47-051-02371-00-00

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

Farm Name:

Operator's Well Number: GLADYS BRIGGS MSH 405H GLADYS R. BRIGGS ESTATE

U.S. WELL NUMBER: 47-051-02371-00-00

Horizontal 6A New Drill

Date Issued: 3/29/2021

Promoting a healthy environment.

API Number:	

#### 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 conditions may result in enforcement action.</u>

#### **CONDITIONS**

- 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. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. 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.
- 10. 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.

API Number:	

#### **PERMIT CONDITIONS**

11. 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.

WW-6B (04/15) API NO. 47-051 OPERATOR WELL NO. Gladys Briggs MSH 405H
Well Pad Name: Gladys Briggs MSH pad

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

1) Well Operat	or: SWN P	roduction C	Co., LLC	494512924	051-MArsh	4-Liberty	278-Cameron
, 1	**************************************			Operator ID	County	District	Quadrangle
2) Operator's V	Well Number:	: Gladys Bı	riggs MS	H 405H Well Pa	d Name: Glad	ys Briggs M	1SH pad
3) Farm Name/	/Surface Own	ner: Gladys	R. Briggs	Estate Public Roa	ad Access: Fis	h Creek Ro	ad
4) Elevation, co	urrent ground	l: 1383'	E	levation, proposed	post-construct	ion: 1383'	
5) Well Type	(a) Gas	X	Oil	Und	erground Stora	ige	AAAAAAAAAA
	Other						A CONTRACTOR OF THE PROPERTY O
	(b)If Gas	Shallow	X	Deep			
		Horizontal	<u> </u>				
6) Existing Pac	d: Yes or No	Yes			_		
, <u>.</u>	_	` ' '	` ' '	cipated Thickness a		` '	Associated Pressure- 4656
***				VD-7117, Target base 1	VB- 7100, Anticipate	u monnoso 40,	710000100 71000
8) Proposed To	otal Vertical I						RECEIVED Office of Oil and Gas
9) Formation at Total Vertical Depth: Marcellus							
9) Formation a	t Total vertic	ai Depth:		S			FFR 2 3 2021
10) Proposed T			16,849'	S /			FEB 2 3 2021
,	Total Measure	ed Depth:		· / /		€	FEB 2 3 2021  WV Department of invironmental Protection
10) Proposed T	Total Measure Horizontal Le	ed Depth:	16,849' 8257.20'	732'			WV Department of
10) Proposed T	Cotal Measure Horizontal Lea ate Fresh Wat	ed Depth: g Length: er Strata De	16,849' 8257.20' pths:	7	nalysis and off		WV Department of invironmental Protection
10) Proposed T 11) Proposed F 12) Approxima	Cotal Measure Horizontal Lea nte Fresh Wat Determine Fr	ed Depth: g Length: er Strata De	16,849' 8257.20' pths:	732' Salinity Profile Ar	nalysis and off		WV Department of invironmental Protection
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ΑΡΙ	NO.	47-	051	-	

OPERATOR WELL NO. Gladys Briggs MSH 405H
Well Pad Name: Gladys Briggs MSH pad

18)

#### **CASING AND TUBING PROGRAM**

ТҮРЕ	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	J-55	94#	126'	126'	CTS
Fresh Water	13 3/8"	New	H-40	48#	802'	802'	750 sx/CTS
Coal	See	Interm	Casing				
Intermediate	9 5/8"	New	J/K-55	40#	2622'	2622'	1008 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	16849'	16849'	Tall 2940sx/ 100' Inside Intermediate
Tubing							
Liners							

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	30"	0.25	2120	81	Class A	1.20/30% Excess
Fresh Water	13 3/8"	17.5"	0.380	2730	633	Class A	1.20/30% Excess
Coal	See	Interm	Casing				
Intermediate	9 5/8"	12 1/4"	0.395	3950	1768	Class A	1.19/40% Excess
Production	5 1/2"	8 3/4"-8 1/2"	0.361	14360	10500	Class A	1.19/5% Excess
Tubing							
Liners							

#### **PACKERS**

Kind:			
Sizes:		RECEIN Office of Oil	ED and Gas
Depths Set:		FEB 2 3	ł

WW-6B	
(10/14)	

API NO. 47- 051 OPERATOR WELL NO. Gladys Briggs MSH 405H
Well Pad Name: Gladys Briggs MSH pad

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

Drill and stimulate any potential zones between and including the Benson to Marcellus. \*\*If we should encounter a void place basket above and below void area- balance cement to bottom of void and grout from basket to surface or run external casing packer/cementing stage tool above void interval and perform 2 stage cementing operation dependent upon depth of void. Run casing not less than 20' below void nor more than 75' below void. (\*If freshwater is encountered deeper than anticipated it must be protected, set casing 50' below and cts.)

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

Well will be perforated within the target formation and stimulated with a slurry of water, sand, and chemical additives at a high rate. This will be performed in stages with the plug and perf method along the wellbore until the entire lateral has been stimulated within the target formation. All stage plugs are then drilled out and the well is flowed back to surface. In some instances, additional toe prep may be performed by pumping additional water in the toe of the well prior to perforating and pumping Stage 1 to ensure that the toe guns/toe sleeves are fully open prior to pumping stage 1. The well is produced through surface facilities consisting of high pressure production unites, horizontal separation units, water and oil storage tanks. Max press and anticipated max rate- 9000 lbs @ 100 barrels a minute.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 8.4
- 22) Area to be disturbed for well pad only, less access road (acres): 4.9
- 23) Describe centralizer placement for each casing string:

All casing strings will be ran with a centralizer at a minimum of 1 per every 3 joints of casing.

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

See Attachment \*\*\*

25) Proposed borehole conditioning procedures:

All boreholes will be conditioned with circulation and rotation for a minimum of one bottoms up and continuing until operator is satisfied with borehole conditions.

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<sup>\*</sup>Note: Attach additional sheets as needed.

			CEMENT A	ADDITIVES		
INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Number
SURFACE (FRESHWATER)		INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
up (o 3%)	5001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL PROTECTION		INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
ир то 3%	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
	D020	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D047	FP 28L	$\times$	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
INTERMEDIATE	><	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	CemNet	> <	$\times$	LOST CIRC MATERIAL	COATED FIBERGLASS FIBERS	PROPRIETAR
	SUGAR	SUGAR	CJ795	CMT RETARDER	SUCROSE	57-50-1
	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
			CJ111	ACCELERATOR	SODIUM CHLORIDE	7440-23-5
		SS-11W	CJ880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4
	D047	FP 28L	X	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	$\sim$	> <	CJX157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
			CJ540	HP FLUID LOSS ADDITIVE	ALIPHATIC AMIDE POLYMER	PROPRIETAR
PRODUCTION	D255	$\supset$	X	MED TEMP FLUID LOSS ADDITIVE	POLYACRILIC POLYMER	PROPRIETAR
			CJ213	RETARDER	CHRYSTALLINE SILICA	14808-60-7
		FL-66	CJ501	LOW TEMP FLUID LOSS ADD	POWDERED POLYSACCHARIDE	PROPRIETAR
		BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301	X	VISCOSIFIER/ANTI- SETTLING AGENT	REFINED POLYMER/ CHRYSTALLINE SILICA	PROPRIETAR
	D198	R-3		CEMENT RETARDER	LIGNIN	8068-51-6
1	SUGAR	SUGAR	CJ795	CEMENT RETARDER	SUCROSE	57-50-1

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#### **Proposed Drilling Program** Southwestern Energy Company Re-entry Rig: TBD Well: **GLADYS BRIGGS MSH 405** Marcellus Shale Prospect: VICTORY FIELD WET Field: WV MARSHALL State: County: -80.6160 Longitude SHL: 39.7671 Latitude BHL: 39.7921 Latitude -80.6258 Longitude 1,383 ft MSL KB Elev: 1,409 ft MSL KB: 26 ft AGL GL Elev: No COAL VOID Anticipated Gas Storage Interval: 1,991' - 2,492' (Maxton, Big Injun) 126 ' to 822 ' Air/Mist PROD TOC Lead @ 2,822 'MD PROD TOC Tail @ 6,995 ' MD 822 'to 1,800' Air/Mist TUBULAR DETAIL Planned Interval 1,800 ' to 2,642 ' Weight Casing Size **Casing String** 10.5# WBM (Min) (in) (Min) From 0' 126 2,642 'to 7,095 ' Conductor 20 94.0# J-55 Air/Mist 13.375 48.0 # H-40 0' 802 Surface 0' 2,622 Intm/Coal 9.625 40.0# J/K-55 16,849 Production P-110 HP 0' 5.5 20.0# CEMENT DETAIL Sacks Class Density 19.3 Conductor: 151 A 750 15.6 Surface: A Intermediate: 1008 A 15.6-16.0 Production: 2940 A 15.6 Air TD at 7,095 Freshwater Depth - 732 'TVD KOP at 7,095 'MD 7,095 'to 8,216' Coal Depth - 1,099 'TVD 12.0-12.2 ppg Saltwater Depth - 1,220 'TVD RECEIVED Office of Oil and Gas TVD - 7,148 ' FEB 2 3 2021 TMD - 16,849 ' WV Department of Environmental Protection TD at 16,849 ' MD 7,148 ' Target Center 7.145 'TVD EOB at 8,216 'MD Onondaga 7,160 'TVD 8,216 'to 16,849 ' SHL Onondaga 7,163 'TVD 12.2-13.0 ppg Created by: Matt Weems on 01/28/2021

Briggs MSH 405H AOR

API	Operator	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones Not Perforated
051-00431-P	The Manufacturers Light & Heat Company - 800 Union Trust Bldg. Pittsburgh PA	Plugged	***	***	2347'	Big Injun Sand	
	Consolidation Coal Company, River Operations, Rd #4, Box 425, Moundsville, WV 26041	Plugged	***	***	2205'	Big Injun Sand	
	Columbia Gas Transmission LLC	Active	***	***	3148'	Gordan	
	Columbia Gas Transmission LLC	Active	***	***	2320'	Big Injun Sand	
	Unknown	Plugged	***	***	2940'	Gordan	
051-00354	Columbia Gas Transmission LLC	Active	***	***	2073'	Unknown	
051-70434	Unknown	Unknown	***	***	Unknown	Unknown	
051-30077-A	Unknown	Abandoned	***	***	3275'	5th Sand	
	Unknown	Abandoned	***	***	Unknown	5th Sand	
	Unknown	Abandoned	***	***	Unknown	Gordan	

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WV Department of
WV Department of

API Number	47 -	051	
One	rator	Wel	No. Gladys Briggs MSH 405H

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

#### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name SWN Production Co., LLC	OP Code 494512924
Watershed (HUC 10) Fish Creek	Quadrangle Cameron
Do you anticipate using more than 5,000 bbls of water to c Will a pit be used? Yes No	complete the proposed well work? Yes Vo
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 Waste	ST.
Land Application Underground Injection (UIC P Reuse (at API Number Atthene Off Site Disposal (Supply form	
Other (Explain recovery and so	
Will closed loop system be used? If so, describe: Yes- Se	
Drilling medium anticipated for this well (vertical and hori	RECEIVED
-If oil based, what type? Synthetic, petroleum, et	c. Synthetic Oil Base Office of Oil and Gas
Additives to be used in drilling medium? Attachment 3B	FEB 2 3 2021
Drill cuttings disposal method? Leave in pit, landfill, reme	oved offsite, etc.   landfill   WV Department of
-If left in pit and plan to solidify what medium wi	Cardination of the second
Apex Sanitary Landtill Ub-U8438, Brooke Uc Permittee shall provide written notice to the Office of Oil a	SWF-1032, Short Creek SWF-1034, Carbon Limestone MSWL018781, Wetzel County 1021  O SVVF-1013,  and Gas of any load of drill cuttings or associated waste rejected at any vided within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the We provisions of the permit are enforceable by law. Violatic law or regulation can lead to enforcement action.  I certify under penalty of law that I have perso application form and all attachments thereto and that,	and conditions of the GENERAL WATER POLLUTION PERMIT issued est Virginia Department of Environmental Protection. I understand that the ears of any term or condition of the general permit and/or other applicable enally examined and am familiar with the information submitted on this based on my inquiry of those individuals immediately responsible for a strue, accurate, and complete. I am aware that there are significant essibility of fine or imprisonment.
Subscribed and sworn before me this 17nd day of	Notary Public Notary Public Official Seal
My commission expires August 21, 2024	State of West Virginia My Comm. Expires Aug 21, 202- 47 Sparrow Lane Morgantown WV 26508

Proposed Revegetation Treatment: Acres Disturbed 8.4	Prevegetation pl	H
Limeas determined by pH test min.2 Tons/acre or to correct to pH	4.9	
Fertilizer type 10-20-20		
Fertilizer amount 600/500 lb	os/acre	
Mulch_ Hay/StrawTons/a	acre	
<u>Seed</u>	d Mixtures	
Temporary	Perm	anent
Seed Type lbs/acre  Attachment 3C	Seed Type	lbs/acre
Maps(s) of road, location, pit and proposed area for land applic rovided). If water from the pit will be land applied, include di		
Maps(s) of road, location, pit and proposed area for land application rovided). If water from the pit will be land applied, include discreage, of the land application area.		
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Attach: Maps(s) of road, location, pit and proposed area for land application provided). If water from the pit will be land applied, include discreage, of the land application area.  Photocopied section of involved 7.5' topographic sheet.  Plan Approved by:  Comments:  Comments:	mensions (L x W x D) of the pit, an	RECEIVED Office of Oil and 0

#### Attachment 3A

#### **CLOSED LOOP SYSTEM**

The closed loop system is designed to eliminate the use of reserve pits by providing a higher level of solids control processing and using steel pits for capture of drill cuttings. The cuttings are then processed to achieve landfill requirements before hauling to approved landfills. The liquids are processed to recycle into the active mud system or to transfer to onsite temporary storage as needed.

The closed loop system consists of several sets of a shale gas separator (often called a 'methana'), several banks of solids shakers, high speed centrifuges (1 or 2) used to process the fluid portion of the mud system to remove low gravity solids, low speed centrifuge used for barite recovery in high weight liquid drilling systems, a dewatering system (for air intervals and if freshwater mud systems are in use) used to further clean liquids by flocculation and additional mechanical separation, associated open top tanks for processing liquids and capturing solids for disposal, and transfer pumps to move fluids through the processes. There is an area adjacent to the cuttings tanks (Red Zone) where a track hole is utilized to recover the processed cuttings for loading into containers for hauloff. (See attached schematic of a generic closed loop system layout)

Below are discussions of the processes used when drilling the air interval or liquids interval.

#### AIR DRILLING INTERVALS

During air drilling operations, flow from the rig will pass down the flowline to the Shale Gas Separater (sometimes called a methane) where gas and liquids/solids are separated. Gas is sent to the flare scrubber tank and is flared at the flare stack. Solids and fluids pass across a shaker system to separate solids from liquids. Solids pass into the cuttings tanks where they are captured for drying and hauloff to an approved landfill site. Liquids fall into a shaker tank and are collected by a centrifugal pump to be processed by the high speed centrifuge to further separate liquids and solids. Solids are then dumped into the cuttings tank for drying and hauloff. Liquids are further processed to remove additional low gravity solids before being reused or transferred to onsite storage.

#### LIQUIDS DRILLING (FRESHWATER, BRINE, SOBM)

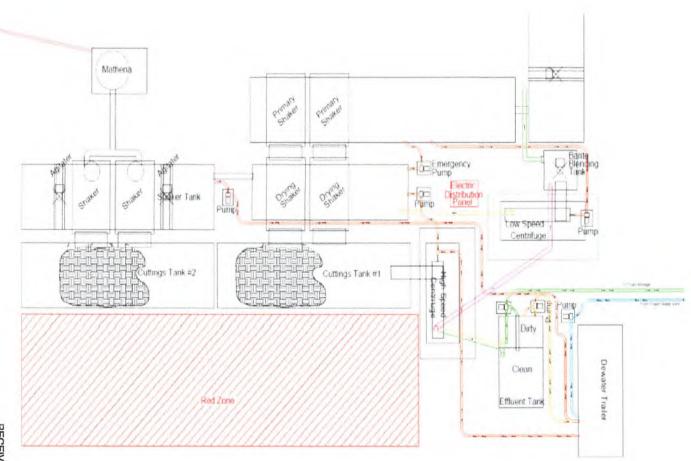
When drilling is converted to liquids drilling, the shale gas separator and associated shaker tank are bypassed, and the liquids system is processed over the primary and drying shaker systems. Cuttings drop into the cuttings tank for additional processing. Any recoverable associated liquids attached to the cutting are recovered out the tank and processed through the low gravity (high speed) and barite recovery centrifuges (low speed) to further remove low gravity solids and to recover barite for reuse in the mud systems.

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FEB 2 3 2021

## Solids Control Layout





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#### **Attachment 3B**

#### **Drilling Mediums**

#### Surface/Coal(if present)/Freshwater Intervals:

Air

Freshwater (if needed based on conditions)

#### Intermediate/Coal (if present):

Air

#### **Production Hole:**

Air

Synthetic Oil (Base Fluid for mud system)

**Barite** 

Calcium Chloride

Lime

**Organophilic Bentonite** 

**Primary and Secondary Emulsifiers** 

Gilsonite

**Calcium Carbonate** 

**Friction Reducers** 

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#### **WVD Seeding Specification**

To Order Seed contact Lyndsi Eddy Flippo office 570-996-4271 cell 501-269-5451 lyndsi\_eddy@swn.com

(please allow 7 to 10 days for delivery)

NON-ORGANIC PROPERTIES			
Seed Mixture: ROW Mix	SWN Supplied		
Orchardgrass	40%		
Timothy	15%		
Annual Ryegrass	15%		
Brown Top Millet	5%		
Red Top	5%		
Medium Red Clover	5%	All legumes are	
White Clover	5%	innoculated at 5x normal	
Birdsfoot Trefoil	5%	rate	
Rough Bluegrass	5%		
Apply @ 100lbs per acre April 16th- Oct. 14th	0	Apply @ 200lbs per acre Oct. 15th- April 15th PLUS bs per acre of Winter Wheat	

SOIL AMENDMENTS	SOIL	AME	NDM	ENTS
-----------------	------	-----	-----	------

10-20-20 Fertilizer \*Apply @ 500lbs per Acre Pelletized Lime Apply @ 2 Tons per Acre \*unless otherwise dictated by soil test results

#### Seeding Calculation Information:

1452' of 30' ROW/LOD is One Acre 871' of 50' ROW/LOD is One Acre 622' of 70' ROW/LOD is One Acre

#### Synopsis:

Every 622 linear feet in a 70' ROW/LOD, you should be using (2) 50lb bags of seed, (4) 50lb bags of fertilizer and (80) 50lb bags of Lime (2x seed in winter months + 50lb Winter Wheat/ac).

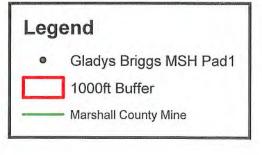
#### Special Considerations:

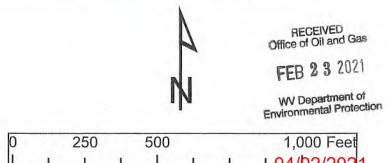
Landowner Special Considerations including CREP program participants require additional guidance that is not given here. Discuss these requirements with SWN supervision at the beginning of the project to allow time for special seed delivery.

nic Mix	SWN Supplied
50%	
50%	
50%	
50%	
	Apply @ 200lbs per acre
	Oct. 15th- April 15th
	Pelletized Lime @ 2 Tons per Acre
	50% 50%

Seed Mixture: Wetland Mix	SWN Supplied
VA Wild Ryegrass	20%
Annual Ryegrass	20%
Fowl Bluegrass	20%
Cosmos 'Sensation'	10%
Redtop	5%
Golden Tickseed	5%
Maryland Senna	5%
Showy Tickseed	5%
Fox Sedge	2.5%
Soft Rush	2.5%
Woolgrass	2.5%
Swamp Verbena	2.5%
Apply @ 25lbs per acre	Apply @ 50lbs per acre
April 16th- Oct. 14th	Oct. 15th- April 15th







## MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN



SWN Production Company, LLC 1300 Fort Pierpont Drive, Suite 201 Morgantown, West Virginia 26508 RECEIVED
Office of Oil and Gas

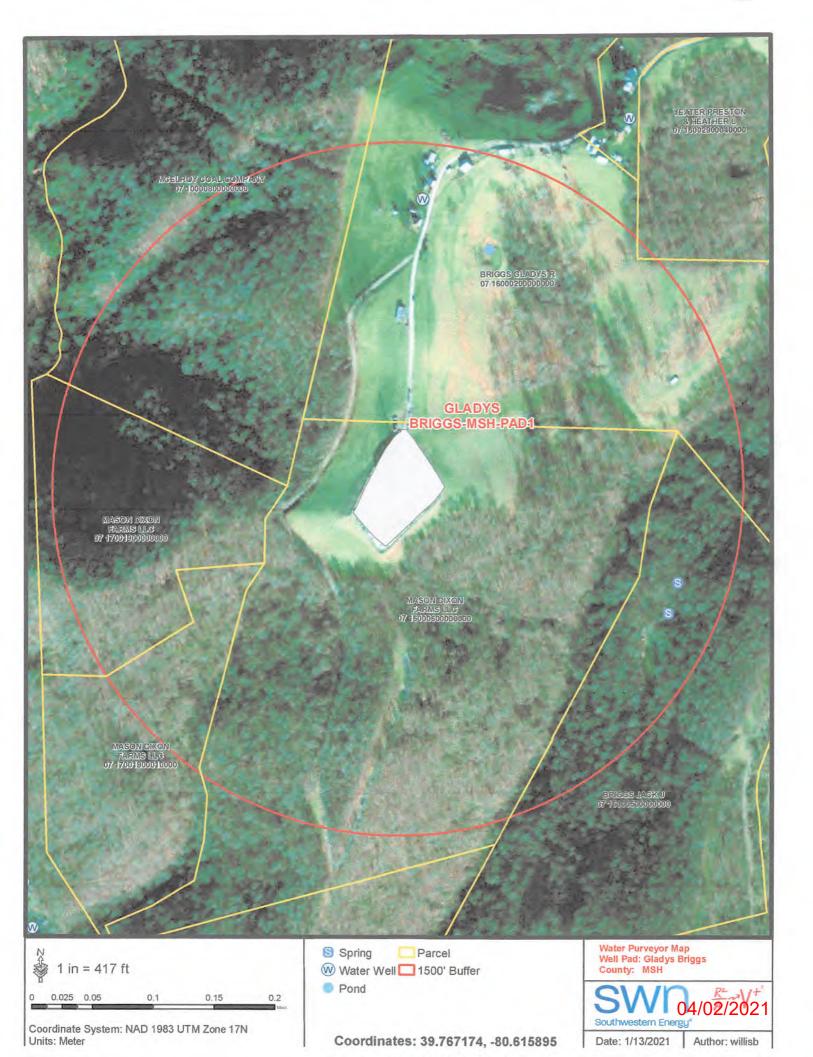
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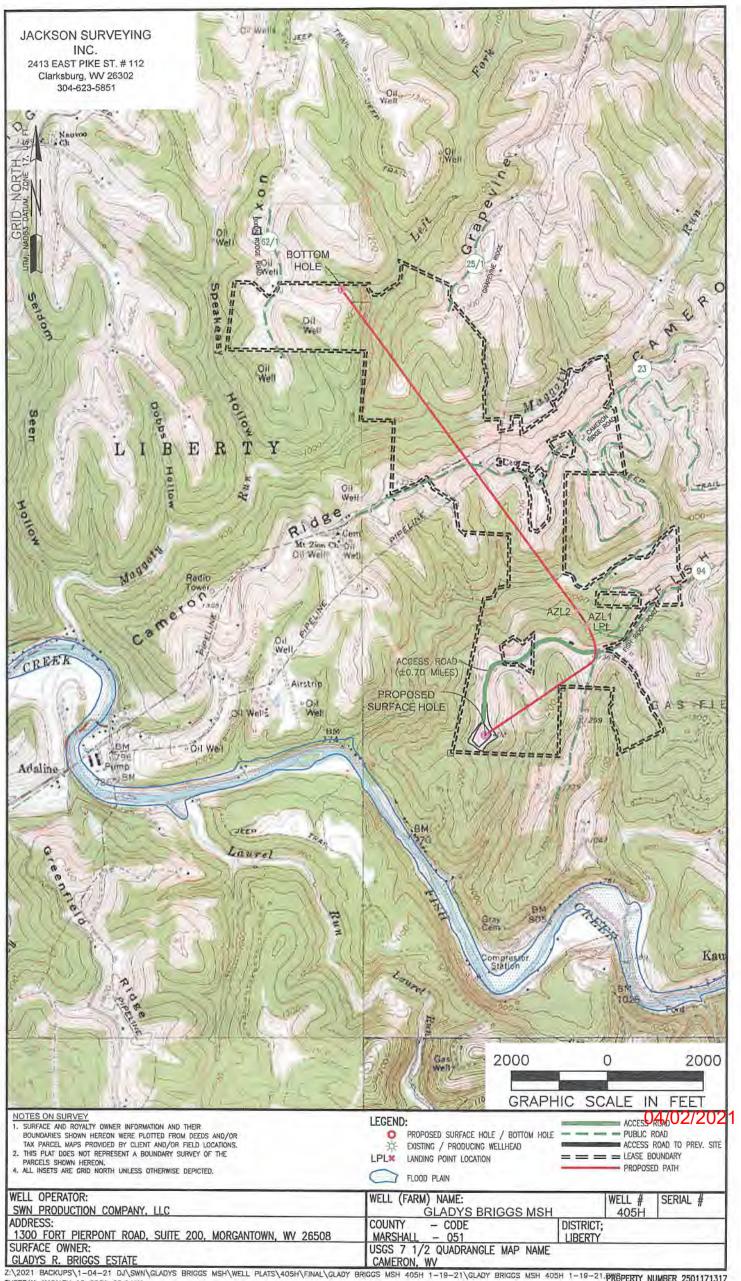
WV Department of Environmental Protection

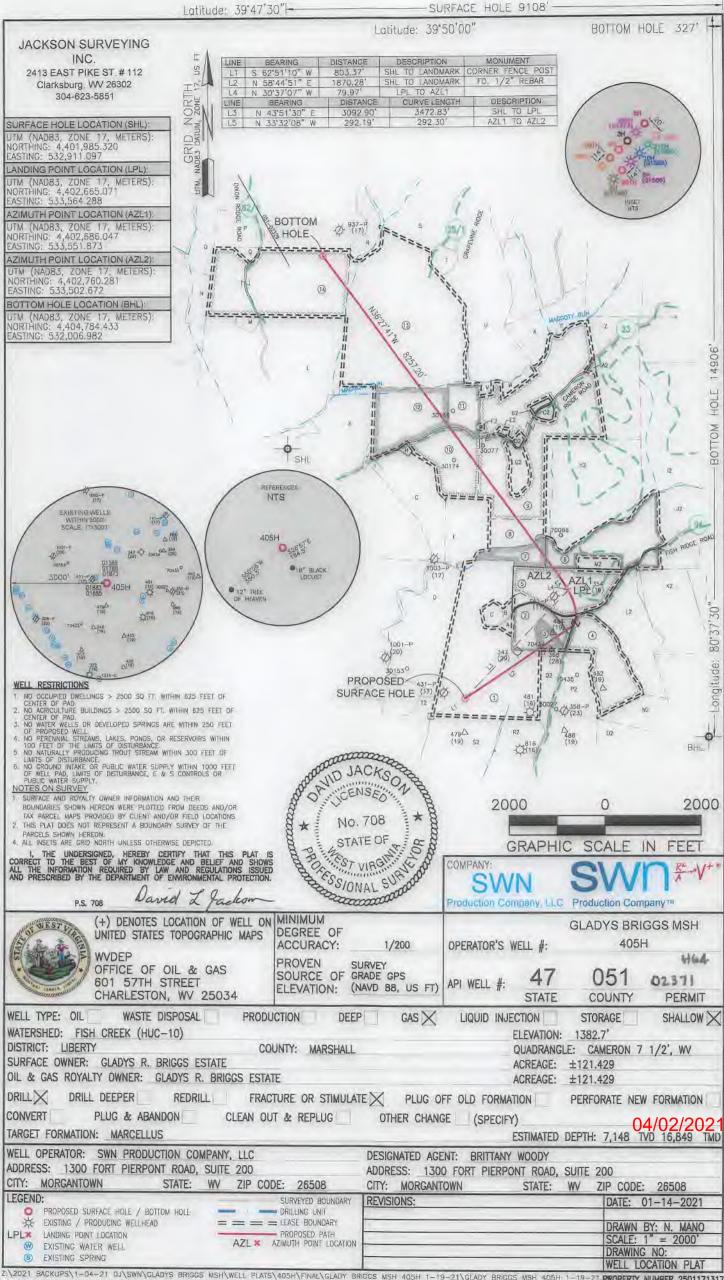
# API NO. 47-XXX-XXXXX WELL NAME: Gladys Briggs MSH 405H Cameron QUAD Liberty DISTRICT MARSHALL COUNTY, WEST VIRGINIA

Submitted by:		
Name: Brittany Woody  Buttany Woody	Date: <u>2/4/2021</u>	
Title: Senior Regulatory Analyst	SWN Production Co., LLC	
Approved by:		
Name:	Date:	
Title:		RECEIVED Office of Oil and Gas
		FEB 2 3 2021
Approved by:		WV Department of Environmental Protection
Name:	Date:	
Title:		

SWN PRODUCTION COMPANY, LLC - CONFIDENTIAL







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80

JACKSON SURVEYING INC. 2413 EAST PIKE ST. # 112 Clarksburg, WV 26302 304-623-5851

	WELL BORE TRACTS	
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	BRIGGS GLADYS R EST (S)/(R)	07-16-02
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	YEATER PRESTON & HEATHER L (S)	07-16-29.4
3	YEATER PRESTON A ET UX (S)	07-16-29.2
4	YEATER THELMA - LIFE (S)	07-16-29 -
5	LEMASTERS VINCENT E (S)	07-10-24
6	RUSH HAROLD E & ANITA (S)	07-10-23
7	CLARK JAMES M (S)	07-10-09
8	CLARK JAMES M (S)	07-10-10
9	DOBBS G & JAN FAMILY TRUST & ERIC SCOTT DOBBS (S)	07-10-18
10	CLARK CHARLES R & WHIPKEY MARILYN V (S)	07-10-12
11	HOWARD PAMELA J & WHITE SCOTT MICHAEL OWEN (S)	07-10-15
12	CLARK CHARLES R & WHIPKEY MARILYN V (S)	07-10-04
13	GRAHAM WAYNE E JR ET UX (S)	07-07-04
14	STERN BLAINE E JR (S)	07-08-11

ADJOINING OWNERS TABLE			
TRACT	SURFACE OWNER	TAX PARCEL	
A	BRIGGS PATTY K	07-16-2.2	
В	BRIGGS JACK	07-16-2.1	
C	LEMASTERS VINCENT E	07-16-01	
D	CONSOL MINING COMPANY LLC ATTN: LAND ADMIN/PROPERTY TAX	07-10-08	
E	BUZZARD DONALD G ET UX	07-10-07	
F	CLARK CHARLES R & WHIPKEY MARILYN V	07-10-11	
G	CLARK CHARLES R & WHIPKEY MARILYN V	07-10-05	
Н	CLARK CHARLES R & WHIPKEY MARILYN V	07-10-4.1	
1	STERN PAUL F	07-10-03	
J	STERN DONALD G ET AL	07-10-02	
K	CLARK CHARLES R	07-10-01	
L	DANAHEY SHAWN T SR & SHAWN T II	07-08-09	
M	FIFE HOWARD C - LIFE - DOWNING STEVEN D	07-08-9.1	
N	DOBBS JOHN ALFRED & LEORA - LIFE	07-08-04	
0	KERNS DANNY R & FRANCES V ESTS	07-08-02	
Р	STERN BLAINE E JR	07-08-13	
Q	STERN BLAINE E JR	07-08-11	
R	CONSOLIDATION COAL COMPANY MURRAY ENERGY C/O LAND DEPT	07-07-03	
S	GRAHAM WAYNE E JR & GWENDOLYN L	07-07-05	
T	GRAHAM WAYNE E JR & GWENDOLYN L	07-07-5.1	
U	MARSHALL COUNTY COAL RESOURCE INC	07-07-5.3	
V	DOBBS G & JAN FAMILY TRUST & ERIC SCOTT DOBBS	07-10-16	
W	DOBBS G & JAN FAMILY TRUST & ERIC SCOTT DOBBS	07-10-17	
X	CAIN TIMOTHY R	07-07-6.1	
Y	JAMISON CHARLES & JEAN	07-07-13	
Z	CONSOLIDATION COAL COMPANY MURRAY ENERGY C/O LAND DEPT	07-10-19	
A2	MURRAY JEFFREY A	07-10-18.2	
B2	DOBBS G & JAN FAMILY TRUST & ERIC SCOTT DOBBS	07-10-18.6	
C2	DOBBS G & JAN FAMILY TRUST & ERIC SCOTT DOBBS	07-10-18.7	
D2	PYLES HAZEN B	07-10-18.1	
E2	WHORTON JERRY S & CYNTHIA C	07-10-18.3	
F2	DOBBS ERIC SCOTT & TIFFANY J	07-10-18.5	
G2	DOBBS ERIC SCOTT & TIFFANY J	07-10-18.4	
H2	DOBBS G & JAN FAMILY TRUST & ERIC SCOTT DOBBS	07-10-22	
12	DOBBS G & JAN FAMILY TRUST & ERIC SCOTT DOBBS	07-10-21	
J2	KNOWLTON MICHAEL	07-10-25.1	
K2	WILLIAMS ROBERT D	07-16-30	
L2	YEATER STEPHANIE F	07-16-29.3	
M2	RUSH HAROLD E & ANITA	07-10-23.1	
N2	YEATER RICHARD M ET UX	07-16-29.1	
02	CUMPSTON GEORGE R E UX	07-16-24	
P2	CLARK WAYNE & JINA SUE SPRINGE	07-16-04	
Q2	BRIGGS GLADYS R EST	07-16-03	
R2	BRIGGS JACK J	07-16-05	
52	MASON DIXON FARMS LLC	07-16-06	
T2	MASON DIXON FARMS LLC	07-17-19.1	

				04/02/2021
REVISIONS:	COMPANY:	SWN Production Company, LLC	SV Production C	Company TM
	OPERATOR'S WELL #: 47~	GLADYS BRIGGS M 051-02371 405H	SH	DATE: 01-14-2021  DRAWN BY: N. MANO
	DISTRICT: LIBERTY	COUNTY: MARSHALL	STATE: WV	SCALE: N/A DRAWING NO: WELL LOCATION PLAT 2

WW-6A1 (5/13) Operator's Well No. Briggs MSH 405H

#### 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:

ease Name or	the state of the s	The STATE OF	- Zertrank	A TOTAL SECTION
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page

See Exhibit "A"

At least 7 minerals owners in tract and at least 75% of the royalty owners have consented to the lawful use or development of the oil or natural gas mineral property on the tract. The interests of the remaining co-tenants will be secured pursuant to the Co-tenancy Modernization and Majority Protection Act.

#### 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

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The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replacemental Protection 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:	SWN Production Company, LLC.	
By:	Brandi Williams	
Its:	Staff Landman	

Page 1 of \_\_1

#### EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, Operator Gladys Briggs 405H

Marshall County, West Virginia

			iii County, west viiginia				
Tract #	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Interest Not Leased by Southwestern Production Company, LLC	
1	7-16-2	David Bonars, single, Harrison J. Briggs and Gladys R Briggs, his wife	The Manufacturers Light and Heat Company	12.50%	309/354	0.0000%	
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204		_
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281		ľ
		Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		650/63		
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110		
2	7-16-29.4	James M. Rine & Mary B. Rine, his wife, and Frank Hopkins & Austia M. Hopkins, his wife	E.C. Beardsley	15.00%	137/429	0.0000%	
		E.C. Beardsley	The Wheeling Natural Gas Company		150/49		
		The Wheeling Natural Gas Company	The Manufacturers Light and Heat Company		148/389		
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204	•	ſ
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281		
		Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		650/63		
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		35/32		
3	7-16-29.2	James M. Rine & Mary B. Rine, his wife, and Frank Hopkins & Austia M. Hopkins, his wife	E.C. Beardsley	15.00%	137/429	0.0000%	
		E.C. Beardsley	The Wheeling Natural Gas Company		150/49		
		The Wheeling Natural Gas Company	The Manufacturers Light and Heat Company		148/389		
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204		İ
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281		
		Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		650/63		
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		35/32		
4	7-16-29	James M. Rine & Mary B. Rine, his wife, and Frank Hopkins & Austia M. Hopkins, his wife	E.C. Beardsley	15.00%	137/429	0.0000%	
		E.C. Beardsley	The Wheeling Natural Gas Company		150/49		RECEIVED
		The Wheeling Natural Gas Company	The Manufacturers Light and Heat Company		148/389	O	fice of Oil and Ga
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204	,	FEB <b>2 3</b> 202
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281	Ì	
		Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		650/63	- N	VV Department o ronmental Protect
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		35/32	Env	TOTAL PROPERTY TO LOCAL
5	7-10-24	Ralph E. Williams, married and dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	658/484	0.0000%	-
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110		
		D. Vane Starkey, a widower	Chesapeake Appalachia, L.L.C.	12.50%	659/62		
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110		
		Delmar W. Williams and Mary Lou Williams, his wife	Chesapeake Appalachia, L.L.C.	12.50%	659/197		
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110		
		Howard E. Williams, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	659/200		
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110		
		Alma O. Pierce, a widow	Chesapeake Appalachia, L.L.C.	12.50%	659/206		
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110		
		James L. and Elsie J. Mercer, his wife	Chesapeake Appalachia, L.L.C.	12.50%	659/382		
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110		

EXHIBIT "A" 47051002371

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, Operator Gladys Briggs 405H Marshall County, West Virginia

act#	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Interest Not Leased by Southwestern Production Company, LLC
		Guy Buzzard, a single man	Chesapeake Appalachia, L.L.C.	12.50%	668/414	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Nile L. Williams, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	666/172	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Larry C. Williams, a married man dealing in his sole	Chesapeake Appalachia, L.L.C.	12.50%	666/168	
		and separate property  Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Elnor M. Horner, a/k/a Elnor Marie Horner, a widow	Chesapeake Appalachia, L.L.C.	12.50%	690/260	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Pearl Lough, f/k/a Pearl Williams, a widow	Chesapeake Appalachia, L.L.C.	12.50%	692/397	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Harry E. Johnson, Sr., a widower	Chesapeake Appalachia, L.L.C.	12.50%	693/562	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		A. Jane Davis, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	693/558	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Sandra K. Dodd, a/k/a Sandy K. Dodd, a single woman	Chesapeake Appalachia, L.L.C.	12.50%	698/363	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		William G. Withers, III, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	698/366	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Karon Sue Vallee, a/k/a Karen Sue Vallee, a widow	Chesapeake Appalachia, L.L.C.	12.50%	695/195	RE( Office of
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Donald L. Withers, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	695/203	FEB 2
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	W Don
		Chestnut Holdings, Inc., a Florida corporation	Chesapeake Appalachia, L.L.C.	17.00%	725/295	Environmen
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		O.W. Young, a/k/a Orville W. Young, a single man	Chesapeake Appalachia, L.L.C.	17.00%	732/406	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Ronald Young, a single man	Chesapeake Appalachia, L.L.C.	17.00%	747/528	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
<u> </u>		Julia Mackey, single; Anna Mackey, single; Lureta			,	/
6 7-1	0-23	Mackey Rupp and W.W. Rupp, her husband; Melvin L. Mackey and Theora W. Mackey, his wife; B.F. Mackey and Gertrude A. Mackey, his wife; Hazel Mackey McCracken and G.D. McCracken, her husband; W.K. Mackey and Hilda Mackey, his wife	The Manufacturers Light and Heat Company	12.500%	272/241	0.0000%
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204	
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281	
		Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		650/63	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	

#### EXHIBIT "A"

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Marshall County, West Virginia

Tract #	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Interest Not Leased by Southwestern Production Company, LLC	
7	7-10-9	Olive Prendergast, widow	The Manufacturers Light and Heat Company	14.000%	360/341	0.0000%	
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204		
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281	:	
		Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		650/63		
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110		
8	7-10-10	Olive Prendergast, widow	The Manufacturers Light and Heat Company	14.000%	360/341	0.0000%	
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204		
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281		
		Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		650/63	-	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110		
9	7-10-18	Ray Lough and Belva Lough, his wife; F.H. Lough, widower; Vera Rogerson, widow; Ethel Newman and Frank Newman, her husband; and Berta Pipes, widow	The Manufacturers Light and Heat Company	12.500%	272/181 342/297	0.000%	
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204		
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281		
		Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		650/63		
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110		
10	7-10-12	Ben Kingree, III and Sarah Jane Kingree, husband and wife, Alexander Foster Reynolds and Edith Reynolds, husband and wife, and Alexander Foster Reynolds, as Committee for Arthur Reynolds, an incompetent person, and Gladys Reynolds, wife of Arthur Reynolds	The Manufacturers Light and Heat Company	13.75%	361/300	0.0000%	
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204	R Office	ECEIVED of Oil and Gas
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281	eer	0.9.2021
		Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		650/63	FEE	<b>2 3</b> 2021
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	_ wc	epartment of
		Lovina Clark, widow; Dora Reynolds, widow; Reverdy Reynolds and Golda F. Reynolds, hiw wife;	The Manufacturers Light and Heat Company	12.50%	353/232	Environr	nental Protection
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204		
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281		
		Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		650/63		
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110		
11	7-10-15	Lovina Clark, widow; Dora Reynolds, widow; Reverdy Reynolds and Golda F. Reynolds, hiw wife;	The Manufacturers Light and Heat Company	12.500%	353/232	0.0000%	/
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204		
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281		
		Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		650/63		
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110		

#### EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, Operator Gladys Briggs 405H Marshall County, West Virginia

ract#	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Interest Not Leased by Southwestern Production Company, LLC
12 7	7-10-4	Ben Kingree, III and Sarah Jane Kingree, husband and wife, Alexander Foster Reynolds and Edith Reynolds, husband and wife, and Alexander Foster Reynolds, as Committee for Arthur Reynolds, an incompetent person, and Gladys Reynolds, wife of Arthur Reynolds	The Manufacturers Light and Heat Company	13.750%	361/300	0.0000%
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204	
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281	
		Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		650/63	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
13	7-7-4	William E. Graham Jr., a/k/a Wayne E. Graham Jr. & Gwendolyn L. Graham, husband and wife as joint tenants with right of survivorship	SWN Production Company, L.L.C.	16.00%	944/289	0.0000%
		William K. Walton, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	18.00%	758/120	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Marietta J. Stover, a/k/a Marietta Stover, a widow, by her Attorney-In-Fact, Marvie S. Alexander	Chesapeake Appalachia, L.L.C.	18.00%	761/25	RECEIVED Office of Oil and G
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	FED 2 3 200
		Margie M. Davenport, a widow	Chesapeake Appalachia, L.L.C.	18.00%	779/546	FED -
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	FEB 2 3 207 WV Department Environmental Prof
		William E. Graham Jr., a/k/a Wayne E. Graham Jr. & Gwendolyn I. Graham, husband and wife as joint tenants with right of survivorship	SWN Production Company, L.L.C.	18.000%	894/623	EUAILOUI
14 7	7-8-11	*Royalty Owner	n/a	r/a	ñ/a	12.79/6%
		Ronald W. Kerns, a single man	Chesapeake Appalachia, L.L.C.	12.50%	726/27	4
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Mary L. Logsdon, a widow	Chesapeake Appalachia, L.L.C.	17.00%	758/138	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Patricia A. Cecil and Wylie J. Cecil, her husband	Chesapeake Appalachia, L.L.C.	17.00%	758/156	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Cynthia L. Hippensteal and Richard T. Hippensteal,	Chesapeake Appalachia, L.L.C.	17.00%	771/545	
		her husband Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Heidi J. Walton, a single woman	Chesapeake Appalachia, L.L.C.	17.00%	771/539	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	21,000	33/110	
		Jill E. Chuss, a married woman dealing in her sole		17 00%	774/206	
		and separate property	Chesapeake Appalachia, L.L.C.	17.00%		
		Chesapeake Appalachia, L.L.C.  Sara L. Clayton, a married woman dealing in her sole	SWN Production Company, LLC		33/110	
		and separate property	SWN Production Company, C.L.C.	17.00%	919/361	
		J. Russell Logsdon, divorced  Donna Faye Earnest, a married woman dealing in	SWN Production Company, L.L.C.	17.00%	926/285	
		her sole and separate property	SWN Production Company, L.L.C.	17.00%	926/579	
		William N. Logsdon, a married man ealing in his sole and separate property	SWN Production Company, L.L.C.	17.00%	926/582	
		Sharee Sams, a single woman	SWN Production Company, L.L.C.	17.00%	926/282	
		Charles W. Dobbins, Sr., a married man dealing in	SWN Production Company, L.L.C.	17.00%	932/89	

105102371

#### EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, Operator Gladys Briggs 405H

Marshall County, West Virginia

Tract#	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Interest Not Leased by Southwestern Production Company, LLC
		Joann I. Dobbs, a widow	SWN Production Company, L.L.C.	17.00%	932/83	DERIVED TO THE TOTAL OF THE TOT
		Walter B. Dobbs, divorced and not remarried	SWN Production Company, L.L.C.	17.00%	932/633	
		Michael T. Boggs, a single man	SWN Production Company, L.L.C.	15.00%	944/274	
		Russell A. Boggs, a married man dealing in his sole and separate property	SWN Production Company, L.L.C.	15.00%	932/73	
		Robert E. Boggs, a single man	SWN Production Company, L.L.C.	15.00%	932/92	
		Debra Fairchild, a single woman	SWN Production Company, L.L.C.	17.00%	932/86	
		Robert Larry Long, single	SWN Production Company, L.L.C.	16.00%	1059/61	
		Janice L. Earnest, a widow	SWN Production Company, L.L.C.	17.00%	926/279	
		Shirley E. Burton, a married woman dealing in her sole and separate property	SWN Production Company, L.L.C.	17.00%	926/276	
		Sandra K. Thornhill, a widow	SWN Production Company, L.L.C.	16.00%	1099/553	

\* At least 7 minerals owners in tract and at least 75% of the royalty owners have consented to the lawful use or development of the oil or natural gas mineral property on the tract.

The Interests of the remaining co-tenants will be secured pursuant to the Co-tenancy Modernization and Majority Protection Act.

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Office of Oil and Gas

FEB 2 3 2021





SWN Production Company, LLC 1300 Fort Pierpont Dr, Ste 201 Morgantown, WV 26508 Tel: 304 884 1610 Fax: 304 471 2497 www.swn.com

February 12, 2021

Ms. Laura Adkins WV DEP Office of Oil & Gas 601 57<sup>th</sup> St., SE Charleston, WV 25304

**RE:** SWN's proposed New Well: Gladys Briggs MSH 405H in Marshall County, West Virginia, Drilling under Cameron Ridge Road and Fish Ridge Road.

Dear Ms. Adkins:

SWN Production Company, LLC ("SWN") is applying for a drilling permit for the above referenced well. The State of West Virginia has raised some concern as to SWN's right to drill under Cameron Ridge Road and Fish Ridge Road. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you.

Sincerely,

Brandi Williams, CPL

Brandi Williams

Staff Landman

SWN Production Company, LLC

RECEIVED
Office of Oil and Gas

FEB 2 3 2021

WV Department of Environmental Protection

R2 mV+8

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

Date of Notic	e Certification; 2		API No. 4 Operator's Well Pad I	s Well No. Gladys Briggs MSH 405H
Notice has be	een given: e provisions in West Virginia Code § 22-6A, the	ne Operator has pro	ovided the re	quired parties with the Notice Forms listed
below for the	tract of land as follows:			532,911.097
State:	West Virginia	UTM NAD 83	Easting:	
County:	051-MArshall	A 30122452E 25	Northing:	4,401,985.320
District:	istrict: Liiberty Public		cess:	Fish Creek Road
Quadrangle:	Cameron	Generally used:	farm name:	Gladys Briggs
Watershed:	Fish Creek			

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

that the Operator has properly served the require *PLEASE CHECK ALL THAT APPLY	perator has attached proof to this Notice Certification and parties with the following:	OOG OFFICE USE ONLY
☐ 1. NOTICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/
2. NOTICE OF ENTRY FOR PLAT SURV	/EY or ☐ NO PLAT SURVEY WAS CONDUCTED	☐ RECEIVED
3. NOTICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	RECEIVED/ NOT REQUIRED
	☐ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
4. NOTICE OF PLANNED OPERATION	RECEIVED Office of Oil and Gas	☐ RECEIVED
5. PUBLIC NOTICE	FFB 2 3 2021	☐ RECEIVED
6. NOTICE OF APPLICATION	WV Department of Environmental Protection	☐ RECEIVED

#### Required Attachments:

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

By:

#### Certification of Notice is hereby given:

THEREFORE, I Brittany Woody \_\_\_\_\_\_\_, 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: SWN Production Co., LLC

Brittany Woody

REID CROFT Notary Public Official Seal

State of West Virginia My Comm. Expires Aug 21, 2024 47 Sparrow Lane Morgantown WV 26508

Its: Senior Regulatory Analyst

Telephone: 304-884-1610

Address: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

Facsimile: 304-884-1690

Email: Brittany\_Woody@swn.com

Subscribed and sworn before me this 22nd day of February 2021

Notary Public

My Commission Expires

Oil and Gas Privacy Notice:

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

RECEIVED
Office of Oil and Gas

FEB 2 3 2021

API NO. 47-4517 0-5 1 0 2 3 7 1
OPERATOR WELL NO. Gladys Briggs MSH 405H
Well Pad Name: Gladys Briggs MSH pad

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

Not	ice Time Requireme	nt; notice shall be provi	ided no later thai	ine filing date of permit application.	
	e of Notice: ice of:	Date Permit Applica	tion Filed:		
V	PERMIT FOR ANY WELL WORK			ROVAL FOR THE AN IMPOUNDMENT OR PIT	RECEIVED Office of Oil and Gas
Deli	ivery method pursu	ant to West Virginia C	ode § 22-6A-10	(b)	FEB 2 3 2021
	PERSONAL SERVICE	✓ REGISTERED MAIL		OD OF DELIVERY THAT REQUIRES A PT OR SIGNATURE CONFIRMATION	WV Department of Environmental Protection
sedi the soil a description well imphave proving substitution of the control of t	ment control plan requestrace of the tract on and gas leasehold being ribed in the erosion at rator or lessee, in the election control of the lease the coal seams; (4) The lease the coal seams; (4) The lease the coal seams; (4) The lease the coal seams; (5) The lease the coal seams; (6) The lease the coal seams; (7) The lease the leas	which the well is or is progressive the tract of land or when the tract of the stract is to be used for the particle of	this article, and the oposed to be local sed well work, if submitted pursual which the well prurface tract or traplacement, constraint article; (5) A cated within one estic animals; and If more than three ands, the applicant suant to section elien holder is not rator shall also proposed within and the cated within three ands.	r signature confirmation, copies of the applicate well plat to each of the following persons: ted; (2) The owners of record of the surface the surface tract is to be used for roads or off int to subsection (c), section seven of this articoposed to be drilled is located [sic] is knowned overlying the oil and gas leasehold being action, enlargement, alteration, repair, removenly surface owner or water purveyor who is knowned five hundred feet of the center of the (6) The operator of any natural gas storage for tenants in common or other co-owners of int may serve the documents required upon the hight, article one, chapter eleven-a of this codnotice to a landowner, unless the lien holder to the well Site Safety Plan ("WSSP") to as provided in section 15 of this rule.	(1) The owners of record of tract or tracts overlying the her land disturbance as icle; (3) The coal owner, it to be underlain by one or developed by the proposed val or abandonment of any mown to the applicant to be well pad which is used to icld within which the interests described in the person described in the le. (2) Notwithstanding any is the landowner. W. Va.
	Application Notice	☑ WSSP Notice ☑ E&	&S Plan Notice	☑ Well Plat Notice is hereby provided	to:
-	URFACE OWNER(s ne: James Briggs			☑ COAL OWNER OR LESSEE Name: James Briggs	/
Add	lress: 531 Briggs Lane			Address: 531 Briggs Lane	
Came	eron, WV 26033		_	Cameron, WV 26033	
Nan				☐ COAL OPERATOR	
Add	lress:		-	Name:	
_				Address:	
OS	URFACE OWNER(s	(Road and/or Other Di	isturbance)	Low transfer and the second	
Nan				SURFACE OWNER OF WATER WEI	LL
Add	lress:			AND/OR WATER PURVEYOR(s)	
			_	Name: See Attachment 13A	
Nan	ne:			Address:	
Add	Iress:			/	
				OPERATOR OF ANY NATURAL GA	
US!	URFACE OWNER(s	(Impoundments or Pits	s)	Name: Columbia Gas Transmission, LLC Atta: John	Shelton
Nan	ne:			Address: 1700 MacCorkle Ave SE/PO Box 1273	
Add	ress:			Charleston, WV 25325	
				*Please attach additional forms if necessa	ry

API NO. 47-051-7-0 5 1 0 2 3 7 1

OPERATOR WELL NO. Gladys Briggs MSH 405H

Well Pad Name: Gladys Briggs MSH

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

Not	ice Time Requireme	nt: notice shall be provi	ded no later that	n the filing date of permit application.	
	e of Notice: 2 13	Date Permit Applica	tion Filed: 👌	aa	
<b>V</b>	PERMIT FOR ANY	The second secon		ROVAL FOR THE AN IMPOUNDMENT OR PIT	RECEIVED Office of Oil and Gas
	WELL WORK				FEB 2 3 2021
Del	ivery method pursua	ant to West Virginia Co	de § 22-6A-10	(b)	WV Department of
	PERSONAL SERVICE	REGISTERED MAIL		OD OF DELIVERY THAT REQUIRES A PT OR SIGNATURE CONFIRMATION	Environmental Protection
oil a descope more well imp have proven properties of the control	and gas leasehold being cribed in the erosion are rator or lessee, in the erosion are consumpted to the erosion are reconsumpted to the section (b) of this section (b) of this section of the sheriff requision of this article to le R. § 35-8-5.7.a requer purveyor or surface	g developed by the proposed sediment control plan is event the tract of land on wowners of record of the subsection of the process of the second of the process of the second of the process of the second of the second of the process of the second of the process of the second of the second of the second of the second of the process of the second of the	sed well work, if submitted pursua which the well pr inface tract or tra lacement, constraints article; (5) A sated within one stic animals; and if more than three ands, the applicants and the applicant to section of the holder is not ator shall also preduced the sting is	the surface tract is to be used for roads or other of the surface tract is to be used for roads or other of the surface tract is to be used for roads or other of the surface tract is to be used for roads or other of the surface of the use of the of the operator of any natural gas storage from the of the operator of the use of th	er land disturbance as the; (3) The coal owner, to be underlain by one or eveloped by the proposed or abandonment of any own to the applicant to well pad which is used to lid within which the erests described in the terson
			S Plan Notice	☑ Well Plat Notice is hereby provided t	O:
	URFACE OWNER(s	)		COAL OWNER OR LESSEE	
-	me: Patty Briggs	/	-	Name: Patty Briggs	
5 2557	fress: 342 Briggs Lane eron, WV 26033		-	Address: 342 Briggs Lane Cameron, WV 26033	
-				COAL OPERATOR	
Nar					
Aut	11688.		-	Name: Address:	
ПS	URFACE OWNER(s	) (Road and/or Other Dis	sturbance)	radicos:	
		, ,	and the same of th	☐ SURFACE OWNER OF WATER WELL	D.
Add	fress:			AND/OR WATER PURVEYOR(s)	
				Name:	
Nar	ne:			Address:	
Add	iress:				
				OPERATOR OF ANY NATURAL GAS	
		(Impoundments or Pits		Name:	
	ne:			Address:	
Add	Iress;			*Please attach additional forms if necessary	

API NO. 47-051 OPERATOR WELL NO. Gladys Briggs MSH 405H
Well Pad Name: Gladys Briggs MSH

## 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 Permit Application Filed: Notice of: RECEIVED Office of Oil and Gas PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE FFB 2 3 2021 CONSTRUCTION OF AN IMPOUNDMENT OR PIT WELL WORK WV Department of Delivery method pursuant to West Virginia Code § 22-6A-10(b) **Environmental Protection** ✓ 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) 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) COAL OWNER OR LESSEE Name: Roger Briggs Name: Roger Briggs Address: 531 Briggs Lane Address: 531 Briggs Lane Cameron, WV 26033 Cameron, WV 26033 Name: COAL OPERATOR Name: Address: Address: □ SURFACE OWNER(s) (Road and/or Other Disturbance) Name: ☐ SURFACE OWNER OF WATER WELL Address: AND/OR WATER PURVEYOR(s) Name: Name: Address: Address: ☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD SURFACE OWNER(s) (Impoundments or Pits) Name: Name: Address: Address: \*Please attach additional forms if necessary

API NO. 47- 051

OPERATOR WELL NO. Gladys Briggs MSH 405H

Well Pad Name: Gladys Briggs MSH

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

Dat	1/-	ment: notice shall be provided to the Date Permit Applicate		han the filing date of permit application.			
<b>V</b>	PERMIT FOR A			PPROVAL FOR THE F AN IMPOUNDMENT OR PIT	RECEIVED Office of Oil and Gas		
Deli	ivery method pur	suant to West Virginia Co	de § 22-6A-	10(b)	FEB 2 3 2021		
	PERSONAL SERVICE	☑ REGISTERED MAIL		HOD OF DELIVERY THAT REQUIRES A EIPT OR SIGNATURE CONFIRMATION	WV Department of Environmental Protection		
the soil adescooper more well important proves the soil and descooper more well important proves the soil and	surface of the tract and gas leasehold be tribed in the erosion rator or lessee, in the e coal seams; (4) To work, if the surface oundment or pit as a water well, springled water for construction (b) of this surface of the sheriff revision of this article e R. § 35-8-5.7.a repurveyor or surface	on which the well is or is pro- eing developed by the propose in and sediment control plan is the event the tract of land on we the owners of record of the sur- the tract is to be used for the plant of the sur- described in section nine of the ing or water supply source loc- amption by humans or domestivity is to take place. (c)(1) I ection hold interests in the lant equired to be maintained purse to the contrary, notice to a life equires, in part, that the oper- ince owner subject to notice an	posed to be lo ed well work, ubmitted purs which the well rface tract or accment, com- his article; (5) ated within or tic animals; at f more than the ds, the application to section en holder is no ator shall also and water testing	If the well plat to each of the following persons: cated; (2) The owners of record of the surface that if the surface tract is to be used for roads or other tracts of the surface tract is to be used for roads or other tracts overlying the oil and gas leasehold being a struction, enlargement, alteration, repair, removed Any surface owner or water purveyor who is known that the thousand five hundred feet of the center of the thousand five hundred feet of the center of the ree tenants in common or other co-owners of in the thousand five hundred feet of the center of the center of the tract in common or other co-owners of in the thousand five hundred feet of the center of the center of the tract in common or other co-owners of in the traction of the conduction o	ract or tracts overlying the ner land disturbance as cle; (3) The coal owner, to be underlain by one or developed by the proposed al or abandonment of any nown to the applicant to e well pad which is used to eld within which the terests described in person described in the e. (2) Notwithstanding any is the landowner. W. Va. the surface owner and any		
			S Plan Notic	ce	to:		
Nan	URFACE OWNE			COAL OWNER OR LESSEE Name: ACNR Resources Attn: Mason Smith	7		
	lress:			Address: 46226 National Road			
Aud	11 CSS.		-	St. Clairsville, OH 43950			
Nan	nar		-	COAL OPERATOR			
				Name:			
Add	1000.		-	Address:			
TI ST	TREACE OWNER	R(s) (Road and/or Other Dis	turbance)	Addiess.			
				☐ SURFACE OWNER OF WATER WEL	1		
Add	rece:		-	AND/OR WATER PURVEYOR(s)	all-i		
Aud	11 035-		-				
Nan	ie.		-	Name:			
Add	race.			Address:			
Aud	11000.		-	OPERATOR OF ANY NATURAL GA	S STOP A CE PIET D		
m si	IREACE OWNER	R(s) (Impoundments or Pits)					
				Name:			
TAGII	race.			Address:			
Add	ress.			*Dlagge attack = 1455 16			
				*Please attach additional forms if necessar	У		

API NO. 47-4517 0 5 1 0 2 3 7
OPERATOR WELL NO. Gladys Briggs MSH 405H
Well Pad Name: Gladys Briggs MSH

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

Notice Time Requirement: notice shall be provided n	o later than the filing date of permit application.
Date of Notice: Date Permit Application I	Filed: A DA
	E OF APPROVAL FOR THE TON 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
sediment control plan required by section seven of this are the surface of the tract on which the well is or is proposed oil and gas leasehold being developed by the proposed we described in the erosion and sediment control plan submit operator or lessee, in the event the tract of land on which more coal seams; (4) The owners of record of the surface well work, if the surface tract is to be used for the placem impoundment or pit as described in section nine of this are have a water well, spring or water supply source located well work activity is to take place. (e)(1) If more subsection (b) of this section hold interests in the lands, the records of the sheriff required to be maintained pursuant to provision of this article to the contrary, notice to a lien ho	a receipt or signature confirmation, copies of the application, the erosion and ticle, and the well plat to each of the following persons: (1) The owners of record of to be located; (2) The owners of record of the surface tract or tracts overlying the ell work, if the surface tract is to be used for roads or other land disturbance as ted pursuant to subsection (c), section seven of this article; (3) The coal owner, the well proposed to be drilled is located [sic] is known to be underlain by one or tract or tracts overlying the oil and gas leasehold being developed by the proposed tent, construction, enlargement, alteration, repair, removal or abandonment of any riticle; (5) Any surface owner or water purveyor who is known to the applicant to within one thousand five hundred feet of the center of the well pad which is used to simals; and (6) The operator of any natural gas storage field within which the e than three tenants in common or other co-owners of interests described in the applicant may serve the documents required upon the person described in the to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any older is not notice to a landowner, unless the lien holder is the landowner. W. Va. thall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any ter testing as provided in section 15 of this rule.
☐ Application Notice ☐ WSSP Notice ☐ E&S Pla	an Notice  Well Plat Notice is hereby provided to:
☐ SURFACE OWNER(s) Name:	☑ COAL OWNER OR LESSEE Name: C/O Leatherwood, Inc. Attn: Casey Saunders
Address:	Address: 1000 Consol Energy Drive
5	Canonsburg, PA 15317  RECEIVED
Name:	I COAL OFERATOR
Address:	Name: Address: FFB 2 3 2021
SURFACE OWNER(s) (Road and/or Other Disturba	Address:FEB 2 3 2021
Name:	☐ SURFACE OWNER OF WATER WELL WY Department of
Address:	AND/OR WATER PURVEYOR(s) Environmental Protection
	Name:
Name:	Address:
Address:	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
USURFACE OWNER(s) (Impoundments or Pits)	Name:
Name:	Address:
Address:	*Please attach additional forms if necessary

API NO. 47-051

OPERATOR WELL NO. Gladys Briggs MSH 405H

Notice is hereby given:

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

Total construction and sediment control

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/oiland-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 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

API NO. 47-051 -

OPERATOR WELL NO. Gladys Briggs MSH 405H

Well Pad Name: Gladys Briggs MSH pad

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 RECEIVED test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Affice of Oil and 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 supplies 23 21 where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately the secretary may order the operator conducting the college of the secretary may order the operator of the college o 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, unless waived in writing by that owner. 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:

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

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

API NO. 47-051

OPERATOR WELL NO. Gladys Briggs MSH 405H

Well Pad Name: Gladys Briggs MSH pad

# 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 RECEIVED Office of Oil and Gas

(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.

FEB 2 3 2021

WV Department of

**Environmental Protection** 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.

API NO. 47-051 OPERATOR WELL NO. Gladys Briggs MSH 405H Well Pad Name: Gladys Briggs MSH pad

Notice is hereby given by:

Home Whody Well Operator: SWN Production Co., LLC

Telephone: 304-884-1610

Email: Brittany\_Woody@swn.com

Address: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

Facsimile: 304-884-1690

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.

REID CROFT Notary Public Official Seal State of West Virginia My Comm. Expires Aug 21, 2024 Sparrow Lane Morgantown WV 26508

Subscribed and sworn before me this 22 day of Feb,

Notary Public

My Commission Expires August 21, 2024

RECEIVED Office of Oil and Gas.

FFB 2 3 2021

WV Department of **Environmental Protection** 

# 4705102371

### **ATTACHMENT 13**

PARCELID	OWNERNAME	ADDRESS	CITY_STATE_ZIP	WATER SOURCES
07 16000200000000	BRIGGS GLADYS R	531 BRIGGS LN	CAMERON, WV 26033	2
07 160005000000000	BRIGGS JACK J	307 BRIGGS LN	CAMERON, WV 26033	2

RECEIVED Office of Oil and Gas

FEB 2 3 2021

WV Department of Environmental Protection

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

Date of Not	ice: 1/8/2021	Date of Pla	nned Entry: 1/15/2021			
Delivery mo	ethod pursuant t	to West Virginia C	ode § 22-6A-10a			
□ PERSO SERVI	. C. 15,000	REGISTERED MAIL	☐ METHOD OF DEL RECEIPT OR SIGN			
on to the sur but no more beneath sucl owner of mi and Sedimer Secretary, w	face tract to conc than forty-five d i tract that has fil nerals underlying it Control Manua thich statement sl	duct any plat surveys ays prior to such en- led a declaration pur g such tract in the co al and the statutes an	Prior to filing a permit applic s required pursuant to this ar- try to: (1) The surface ownersuant to section thirty-six, a county tax records. The notice and rules related to oil and gas information, including the and secretary.	ticle. Such notice s of such tract; (2) to ticle six, chapter to shall include a state exploration and pro-	shall be provided to any owner or leaventy-two of this stement that copic roduction may be	at least seven days essee of coal seams s code; and (3) any es of the state Erosion e obtained from the
Notice is he	reby provided to	o:				RECEIVED Office of Oil and Gas
☐ SURFA	CE OWNER(s)		■ COA	LOWNER OR LE	SSEE /	FEB 2 3 2021
Name:				NR Resources Attn: Masor	Smith	LED & g con
Address: _				46226 National Road		WV Department of
			St. Clairsville,	OH 43950		Environmental Protection
				EDAL OWNEDAN		
Address:				ERAL OWNER(s)		
Name:			Name:			
Address:			_ Address:			
			*please attac	h additional forms if ne	cessary	
Pursuant to	ereby given: West Virginia Co	ode § 22-6A-10(a), i	notice is hereby given that th	e undersigned well	operator is plan	ning entry to conduct
a plat survey State:	on the tract of la West Virginia	and as ronows.	Approx. Latit	ude & Longitude:	39.771869, -80.60735	54
State: County:		and us ronows.	Public Road		39.771869, -80.60738 Fish Ridge Road	54
State: County: District:	West Virginia Marshall Liberty	and as ronows.	Public Road A Watershed:	Access:	Fish Ridge Road Fish Creek	54
State: County:	West Virginia Marshall Liberty	and as follows.	Public Road	Access:	Fish Ridge Road	54
State: County: District: Quadrangle: Copies of th may be obta Charleston, obtained fro	West Virginia  Marshall Liberty Cameron  e state Erosion at ined from the Set WV 25304 (304	nd Sediment Contro cretary, at the WV I -926-0450). Copies by visiting <u>www.de</u> r	Public Road A Watershed:	Access: d farm name: d rules related to of l Protection headquestional information r	Fish Ridge Road Fish Creek Gladys Briggs il and gas explora	ation and production t 601 57th Street, SE,
State: County: District: Quadrangle: Copies of th may be obta Charleston, obtained fro	West Virginia  Marshall Liberty Cameron  e state Erosion are ined from the Ser WV 25304 (304 m the Secretary by the state by given by	nd Sediment Contro cretary, at the WV I -926-0450). Copies by visiting <u>www.de</u> r	Public Road A Watershed: Generally use  I Manual and the statutes an Department of Environments of such documents or addit	Access: d farm name: d rules related to of l Protection headquestional information r	Fish Ridge Road Fish Creek Gladys Briggs il and gas explora parters, located a elated to horizon	ation and production t 601 57 <sup>th</sup> Street, SE,
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### Oil and Gas Privacy Notice:

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

entry					t least SEVEN (7) da	ys but no more that	n FORTY-FI	VE (45) days prior to
Date of No	otice: 1/8/2021		Date of Plan	nned I	Entry: 1/15/2021			
Delivery r	nethod purs	uant 1	to West Virginia C	ode §	22-6A-10a			RECEIVED Office of Oil and Gas
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	iereby provi FACE OWNE				Псом	L OWNER OR LE	CCEE	
		K(S)						
Name: Patt	342 Briggs			-	Name:			
Cameron, WV	26033			-	Address:			
and the second second								
Address:					☐ MINI	ERAL OWNER(s)		
111111111111111111111111111111111111111					Name:			
Name:				_	Address:			
Address:								
				-	*please attac	h additional forms if ne	cessary	
Pursuant to		nia Co et of la	ode § 22-6A-10(a), rand as follows:	notice	Approx. Latit	ude & Longitude:	operator is pl	lanning entry to conduct
County:	Marshall				Public Road	Access:	Fish Ridge Road	
District:	Liberty				Watershed:		Fish Creek	
Quadrangl	e: Cameron				Generally use	ed farm name:	Gladys Briggs	
may be ob Charlestor obtained fi	tained from t n, WV 25304 rom the Secre hereby give	he Se (304 etary be en by	cretary, at the WV I -926-0450). Copies by visiting <u>www.der</u>	Departs of suc	ment of Environmenta	ıl Protection headq ional information r	uarters, locate elated to horiz	loration and production d at 601 57 <sup>th</sup> Street, SE, contal drilling may be
Telephone		777	A CONTRACTOR OF THE PERSON OF			Morgantown, WV 26508		
Email:			@swn.com		Facsimile:	304-884-1690		
	Dinially_	· · · · · · · · · · · · · · · · · · · ·	Seminosin			The second second		

Oil and Gas Privacy Notice:

# 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) da	ys but no more than	FORTY-FIVE	£ (45) days prior to
entry Date of Notic	e: 1/8/2021	Date of Pla	nned Entry: 1/15/2021			
Delivery metl	hod pursuant	to West Virginia C	ode § 22-6A-10a			
☐ PERSON	NAL I	REGISTERED	☐ METHOD OF DE	LIVERY THAT REQ	UIRES A	
SERVIC		MAIL		NATURE CONFIRM		
on to the surfa but no more the beneath such to owner of mine and Sediment Secretary, whi	ce tract to cond nan forty-five d ract that has fil rals underlying Control Manua ch statement sl	duct any plat survey lays prior to such en led a declaration put g such tract in the co al and the statutes an	Prior to filing a permit appli is required pursuant to this a stry to: (1) The surface ownersuant to section thirty-six, a county tax records. The notion and rules related to oil and gath information, including the a the secretary.	rticle. Such notice shart of such tract; (2) to rticle six, chapter two e shall include a state s exploration and pro	all be provided any owner or enty-two of thi ement that copi duction may b	l at least seven days lessee of coal seams is code; and (3) any les of the state Erosion e obtained from the eary's web site, to
Notice is here	by provided to	0:				RECEIVED Office of Oil and Gas
	E OWNER(s)		■ COA	L OWNER OR LESS	SEE	FEB 2 3 2021
Name: James B		,	Name: Jar			W/ Donest
Address: 531 B			Address:	531 Briggs Lane	E	WV Department of nvironmental Protection
Cameron, WV 2603	3		Cameron, W\	/ 26033		
Name:				ED AL OWNER (		
Address:				ERAL OWNER(s)		
Namas			Name: Jan			
Address			Address: Cameron, W\	531 Briggs Lane		_
11001033.				ch additional forms if neces	ssary	
Notice is her Pursuant to W a plat survey of State: County:	est Virginia Co	ode § 22-6A-10(a), and as follows:	notice is hereby given that the Approx. Lati	tude & Longitude:	perator is plan 39.771869, -80.6073 Fish Ridge Road	
District:	Liberty		Watershed:		Fish Creek	
Quadrangle:	Cameron			ed farm name:	Gladys Briggs	
may be obtain Charleston, W obtained from	ed from the Se V 25304 (304 the Secretary I reby given by	cretary, at the WV 1-926-0450). Copies by visiting <u>www.de</u>	ol Manual and the statutes ar Department of Environments s of such documents or addit p.wv.gov/oil-and-gas/pages/	al Protection headqua tional information rel	arters, located a ated to horizor	at 601 57th Street, SE,
Telephone:	304-884-1610	11011 00111 7111 7120		Morgantown, WV 26508		
Email:	Brittany_Woody(	Mewn com	Facsimile:	304-884-1690		

Oil and Gas Privacy Notice:

Operator Well No. Gladys Briggs

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

entry Date of Noti	ce: 1/8/2021	Date of Plan	nned Entry: 1/15/2021		FORTY-FIVE (45) days prior to
	THE STREET	to West Virginia C	Cylindrian Salar		
Denvery me	mod pursuant i	to vvest virginia C	ode g 22-0/1-10a		
☐ PERSO SERVIO	the second second	REGISTERED MAIL	☐ METHOD OF DEL RECEIPT OR SIGN	IVERY THAT REQ NATURE CONFIRM	
on to the surf but no more beneath such owner of mir and Sedimen Secretary, wh enable the su	ace tract to conclude than forty-five detract that has filterals underlying to Control Manuatich statement slarface owner to overby provided to	duct any plat survey ays prior to such end ed a declaration pure such tract in the could and the statutes and hall include contact btain copies from the	s required pursuant to this astry to: (1) The surface ownersuant to section thirty-six, a bunty tax records. The notice of rules related to oil and gas information, including the agree secretary.	rticle, Such notice shar of such tract; (2) to rticle six, chapter twe e shall include a state is exploration and produces for a web page	hall provide notice of planned entry all be provided at least seven days any owner or lessee of coal seams enty-two of this code; and (3) any ement that copies of the state Erosior duction may be obtained from the e on the Secretary's web site, to
	CE OWNER(s)		□ COA	L OWNER OR LESS	SEE
Name: Roger E			Name: Ros		FEB 2 3 2021
Address: 531	and the second second second			531 Briggs Lane	
Cameron, WV 260	033		Cameron, WV	26033	WV Department of
Name:			- I von	ED II OUDIEDO	Environmental Protection
Address:				ERAL OWNER(s)	
Manage			Name: Rog		
Name: Address:				531 Briggs Lane	
Address.			Cameron, WV	V. V. S.	
		*	_ *please attac	h additional forms if neces	isary
Pursuant to V a plat survey State: County:	ereby given: Vest Virginia Co on the tract of la West Virginia Marshall			ude & Longitude: 3	perator is planning entry to conduct 99.771869, -80.607354 Fish Ridge Road Fish Creek
Pursuant to V	Vest Virginia Co on the tract of la West Virginia Marshall		Approx. Latit	ude & Longitude: 3 Access: F	39.771869, -80.607354 Fish Ridge Road
Pursuant to V a plat survey State: County: District: Quadrangle: Copies of the may be obtain Charleston, V obtained fron Notice is he	Vest Virginia Co on the tract of la West Virginia Marshall Liberty Cameron  state Erosion ar ned from the Sec VV 25304 (304- n the Secretary b	and as follows:  and Sediment Control cretary, at the WV E 926-0450). Copies by visiting www.dep	Approx. Latit Public Road & Watershed: Generally use  I Manual and the statutes an Department of Environmenta of such documents or addit	ude & Longitude: 3 Access: F d farm name: G d rules related to oil a l Protection headquar ional information rela	39.771869, -80.607354 Fish Ridge Road Fish Creek Bladys Briggs and gas exploration and production rters, located at 601 57th Street, SE, ated to horizontal drilling may be
Pursuant to V a plat survey State: County: District: Quadrangle: Copies of the may be obtain Charleston, V obtained fron Notice is he Well Operato	Vest Virginia Co on the tract of la West Virginia Marshall Liberty Cameron  state Erosion ar ned from the Sec VV 25304 (304- n the Secretary b	and as follows:  and Sediment Control cretary, at the WV E 926-0450), Copies by visiting www.dep	Approx. Latit Public Road A Watershed: Generally use  I Manual and the statutes an Department of Environmenta of such documents or addit	ude & Longitude: 3 Access: F d farm name: G d rules related to oil a l Protection headqual ional information rela	39.771869, -80.607354 Fish Ridge Road Fish Creek Bladys Briggs and gas exploration and production rters, located at 601 57 <sup>th</sup> Street, SE, ated to horizontal drilling may be
Pursuant to V a plat survey State: County: District: Quadrangle: Copies of the may be obtain Charleston, V obtained fron Notice is he	Vest Virginia Co on the tract of la West Virginia Marshall Liberty Cameron  state Erosion ar ned from the Sec VV 25304 (304- n the Secretary b	and as follows:  and Sediment Control cretary, at the WV E 926-0450). Copies by visiting www.dep	Approx. Latit Public Road & Watershed: Generally use  I Manual and the statutes an Department of Environmenta of such documents or addit	ude & Longitude: 3 Access: F d farm name: G d rules related to oil a l Protection headquar ional information rela	39.771869, -80.607354 Fish Ridge Road Fish Creek Bladys Briggs and gas exploration and production rters, located at 601 57 <sup>th</sup> Street, SE, ated to horizontal drilling may be

### Oil and Gas Privacy Notice:

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

Date of	Notice: 1/8/20	21	Date of Plan	ned Entry: 1/15/2	021			
				ode § 22-6A-10a				
☐ PE	ERSONAL ERVICE	REGIS MAIL	STERED	□ метног		JVERY THAT RE	A Section of the sect	
on to the but no re- beneath owner of and Sed Secretar	e surface trace more than fort such tract that of minerals un liment Contro ry, which state	to conduct any y-five days price at has filed a dec derlying such to I Manual and th	plat surveys or to such ent claration pur- ract in the co- te statutes and ude contact in	s required pursuan ry to: (1) The surf suant to section th unty tax records. d rules related to information, inclu	nt to this a face owne cirty-six, a The notic oil and ga	ticle. Such notice s r of such tract; (2) rticle six, chapter t e shall include a sta s exploration and p	shall be provided any owner wenty-two of attement that coroduction man	e notice of planned entry ded at least seven days or lessee of coal seams this code; and (3) any opies of the state Erosion y be obtained from the cretary's web site, to
Notice	is hereby pro	vided to:						RECEIVED Office of Oil and Gas
□ su	RFACE OWI	NER(s)			COA	L OWNER OR LE	SSEE	FEB 2 3 2021
		V=+N-7				Leatherwood Inc. Attn: Co		
Address	s;					1000 Cansol Energy Drive		WV Department of Environmental Protection
Name:						To all ourse		
Address	s:				☐ MINI	ERAL OWNER(s)		
					Name:			
Name:					Address:			
Addusas								
Address	š;				*nlease attac	h additional forms if ne	cessary	
Address	V V TAT				*please attac	h additional forms if ne	cessary	
Notice Pursuan	is hereby gi	iven:	-6A-10(a), n					lanning entry to conduct
Address  Notice  Pursuan a plat su	is hereby gi	iven: ginia Code § 22 ract of land as fo	-6A-10(a), n	otice is hereby gi	ven that th			
Notice Pursuan a plat su State: County:	is hereby gi at to West Virgarvey on the tr West Virgary	iven: ginia Code § 22 ract of land as fo ginia	-6A-10(a), n	otice is hereby gi	ven that the prox. Latit	e undersigned wel	operator is p	607354
Notice Pursuan a plat su State: County:	is hereby gi at to West Virgarvey on the tr  West Virgary  Marshall Liberty	iven: ginia Code § 22 ract of land as fo ginia	-6A-10(a), n	otice is hereby gr App Pub Wa	ven that the prox. Latit lic Road a tershed;	e undersigned wel ude & Longitude: Access:	operator is p	607354
Notice Pursuan a plat su State: County: District:	is hereby gi at to West Virgarvey on the tr  West Virgary  Marshall Liberty	iven: ginia Code § 22 ract of land as fi	-6A-10(a), n	otice is hereby gr App Pub Wa	ven that the prox. Latit lic Road / tershed;	e undersigned wel	operator is p 39.771869, -80.6 Fish Ridge Road	607354
Notice Pursuan a plat su State: County: District: Quadran Copies of may be Charles obtained Notice	is hereby ging to to West Virgarvey on the West Virgarvey on the Liberty Ingle: Cameron of the state Errobtained from ton, WV 253 d from the Section is hereby gingle: Cameron to the Section with the Section in the Se	iven: ginia Code § 22 ract of land as foginia rosion and Sedin the Secretary, 04 (304-926-04 cretary by visiti	ment Control at the WV D 50). Copies ng www.dep	otice is hereby graph App Pub War Ger Manual and the sopepartment of Envorsuch document www.gov/oil-and-graph App Public Research App Public Resea	ven that the prox. Latitudic Road attershed; nerally use statutes an ironmentats or addit	e undersigned well ude & Longitude: Access: d farm name: d rules related to o ll Protection headquional information r	39.771869, -80.6 Fish Ridge Road Fish Creek Gladys Briggs ill and gas expuarters, locate elated to horiz	607354
Notice Pursuan a plat su State: County: District: Quadran Copies of may be Charles obtained Notice	is hereby gint to West Virgarvey on the West Virgarvey on the Liberty Ingle: Cameron of the state Erobtained from ton, WV 253 d from the Section of the Sect	iven: ginia Code § 22 ract of land as foginia  rosion and Sedin the Secretary, 04 (304-926-04 cretary by visiti	ment Control at the WV D 50). Copies ng www.dep	otice is hereby graph App Pub War Ger Manual and the sopepartment of Envorsuch document www.gov/oil-and-graph App Public Research App Public Resea	orox. Latit orox. Latit orox. Latit of Road a tershed: nerally use statutes an ironmenta ts or addit as/pages/a	te undersigned well ude & Longitude: Access: d farm name: d rules related to o dl Protection headquional information relefault.aspx.	39.771869, -80.6 Fish Ridge Road Fish Creek Gladys Briggs ill and gas exputarters, locate elated to horiz	loration and production at a 601 57 <sup>th</sup> Street, SE,

### Oil and Gas Privacy Notice:

# STATE 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.

Notice Time Date of Noti		provided at least TEN (10) days prior to fiting:	a permit application,
	thod pursuant to West Virgin		RECEIVED Office of Oil and Gas
☐ HAND	■ CERTIFIED N	4АП.	FEB 2 3 2021
DELIV		CEIPT REQUESTED	
drilling a hor of this subsection m	rizontal well: <i>Provided</i> , That rection as of the date the notice way be waived in writing by the	east ten days prior to filing a permit application surface owner notice of its intent to enter upon to tice given pursuant to subsection (a), section t as provided to the surface owner: <i>Provided, ho</i> surface owner. The notice, if required, shall incomic mail address of the operator and the operat	en of this article satisfies the requirements wever, That the notice requirements of this clude the name, address, telephone number,
	ereby provided to the SUR	FACE OWNER(s):	
Name: C/O Lea		Name:	
P. Old Jun South	Consal Energy Drive	Address:	
Canonsburg, PA	15317		
State: County: District:	West Virginia Marshall Liberty	rilling a horizontal well on the tract of land as f  UTM NAD 83 Easting: Northing: Public Road Access:	532,911,097 4,401,985,320 Fish Ridge Road
Quadrangle:	Cameron 7 1/2', WV	Generally used farm name:	Gladys Briggs MSH
Watershed:	Fish Creek (HUC-10)		
Pursuant to facsimile nur related to ho	nber and electronic mail addr rizontal drilling may be obtain	16(b), this notice shall include the name, addess of the operator and the operator's authorized from the Secretary, at the WV Department of V 25304 (304-926-0450) or by visiting www.d	red representative. Additional information of Environmental Protection headquarters,
Notice is he	ereby given by:	Authorized Representative	A. A. P. B. W.
Address:		Address:	
Audicss.	1300 Fort Pierpont Dr., Suite 201	Address.	1300 Fort Pierpont Dr., Suite 201
Telephone:	Morgantown, WV 26508 304-884-1675	Telephone:	Morgantown, WV 26508
Email:	Justin Booth@swn.com	Email:	304-884-1675
Facsimile:	- oranii pooni@swii.com	Facsimile:	Justin_Booth@swn.com
	-		

### Oil and Gas Privacy Notice:

# STATE 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.

Notice Time Date of Notic	Requirement: Notice shall be provided ee: 01/27/2021 Date P	at least TEN (10) days prior to filing a ermit Application Filed:	permit application.
Delivery met	hod pursuant to West Virginia Code §	§ 22-6A-16(b)	
☐ HAND	■ CERTIFIED MAIL		
DELIVE		EQUESTED	
receipt request drilling a hore of this subsection man	sted or hand delivery, give the surface over izontal well: <i>Provided</i> , That notice give tion as of the date the notice was provid	when notice of its intent to enter upon the pursuant to subsection (a), section to ed to the surface owner: <i>Provided, how</i> when. The notice, if required, shall include.	an operator shall, by certified mail return ne surface owner's land for the purpose of an of this article satisfies the requirements ovever, That the notice requirements of this ude the name, address, telephone number, or's authorized representative.
			RECEIVED Office of Oil and Gas
Notice is he Name: ACNR R	reby provided to the SURFACE O		Onice of oil and Gas
Address: 4622		Name: Address:	FEB 2 3 2021
St. Clairsville, OF		Addiess.	720 0 0 0001
Pursuant to V	reby given: Vest Virginia Code § 22-6A-16(b), notice vner's land for the purpose of drilling a l West Virginia	horizontal well on the tract of land as fo	well operator has an intent to enter upon llows: 532,911.097
County:	Marshall	UTM NAD 83 Northing:	4,401,985.320
District:	Liberty	Public Road Access:	Fish Ridge Road
Quadrangle:	Cameron 7 1/2', WV	Generally used farm name:	Gladys Briggs MSH
Watershed:	Fish Creek (HUC-10)		
Pursuant to 'facsimile nur related to hor	nber and electronic mail address of the rizontal drilling may be obtained from t	e operator and the operator's authorize he Secretary, at the WV Department o	ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
	reby given by:		
Well Operato	r: SWN Production Company, LLC	Authorized Representative:	
Address:	1300 Fort Pierpont Dr., Suite 201	Address:	1300 Fort Pierpont Dr., Suite 201
	Morgantown, WV 26508		Morgantown, WV 26508
l'elephone:	304-884-1675	Telephone:	304-884-1675
Email: Facsimile:	Justin_Booth@swn.com	Email: Facsimile:	Justin_Booth@swn.com

### Oil and Gas Privacy Notice:

# STATE 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.

Notice Time Date of Notic		provided at least TEN (10) days prior to filing a  Date Permit Application Filed:	permit application.
Delivery me	hod pursuant to West Virg	a Code § 22-6A-16(b)	
☐ HAND	■ CERTIFIED	AII.	
DELIVE		EIPT REQUESTED	
receipt reque drilling a hor of this subsec- subsection m	sted or hand delivery, give the izontal well: Provided, That tion as of the date the notice ay be waived in writing by the	east ten days prior to filing a permit application, urface owner notice of its intent to enter upon the tice given pursuant to subsection (a), section to section to the surface owner: <i>Provided, how</i> urface owner. The notice, if required, shall include mail address of the operator and the operator	ne surface owner's land for the purpose of on of this article satisfies the requirements vever, That the notice requirements of this ude the name, address, telephone number,
Notice is he	reby provided to the SUI	ACE OWNER(s):  Name:	RECEIVED Office of Oil and Gas
Address: 531		Address:	FEB 2 3 2021
Cameron, WV 26			FEB 2 3 ZUZI
		b), notice is hereby given that the undersigned illing a horizontal well on the tract of land as for the land as for the tract of land as for the	
County:	Marshall	OTM NAD 83 Northing:	4,401,985,320
District:	Liberty	Public Road Access:	Fish Ridge Road
Quadrangle:	Cameron 7 1/2', WV	Generally used farm name:	Gladys Briggs MSH
Watershed:	Fish Creek (HUC-10)		
Pursuant to facsimile nur related to hor	nber and electronic mail additional desiration and additional desiration may be obtained as the control of the	6(b), this notice shall include the name, address of the operator and the operator's authorized from the Secretary, at the WV Department of 25304 (304-926-0450) or by visiting www.de	ed representative. Additional information f Environmental Protection headquarters,
	reby given by:		
	r: SWN Production Company, LLC	Authorized Representative:	Justin Booth
Address:	1300 Fort Pierpont Dr., Suite 201	Address:	1300 Fort Pierpont Dr., Suite 201
	Morgantown, WV 26508		Morgantown, WV 26508
Telephone:	304-884-1675	Telephone:	304-884-1675
Email:	Justin_Booth@swn.com	Email:	Justin_Booth@swn.com
Facsimile:		Facsimile:	

### Oil and Gas Privacy Notice:

Operator Well No. Gladys Briggs MSH 405H

# STATE 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.

Notice Time	Requirement: N			t TEN (10) days prior to filing e	permit application.
Date of Notic		West Virginia Coo		Application Filed:	Office of Oil and Gas
Denvery met	nou pursuant to	West Virginia Cot	ue 8 22-07	<b>C-10</b> (b)	
☐ HAND		CERTIFIED MAIL			FEB 2 3 2021
DELIVE		RETURN RECEIPT	REQUES	STED	_ WV Department - r
					WV Department of Environmental Protection
receipt reques drilling a hori of this subsec subsection ma and if availab	ted or hand deliving ted or hand deliving ted to the deliving as of the date of the waived in view facsimile number, facsimile number,	ery, give the surface ovided. That notice go the notice was proviiting by the surface ber and electronic n	e owner no given purs ovided to the ee owner. mail addres	otice of its intent to enter upon to uant to subsection (a), section to the surface owner: <i>Provided, how</i> The notice, if required, shall incomes of the operator and the operator	the surface owner's land for the purpose of en of this article satisfies the requirements wever. That the notice requirements of this lude the name, address, telephone number,
		to the SURFACE	EOWNE		
Name: Patty Brig			1	Name:	
Address: 342 E			/	Address:	
State: County:	West Virginia Marshall			UTM NAD 83 Easting: Northing:	532,911.097 4,401,985.320
District:	Liberty			Public Road Access:	Fish Ridge Road
Quadrangle:	Cameron 7 1/2', WV			Generally used farm name:	Gladys Briggs MSH
Watershed:	Fish Creek (HUC-10				
This Notice	Table 1 - William I S. C. College				
	Shall Include:				
Pursuant to V facsimile num related to hor	Vest Virginia Conber and electronized drilling n	nic mail address of may be obtained from	the opera m the Seco	tor and the operator's authorize retary, at the WV Department of	ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Pursuant to V facsimile num related to hor located at 601 Notice is her	Vest Virginia Conber and electronizontal drilling no 57th Street, SE, Greby given by:	nic mail address of nay be obtained from Charleston, WV 253	the opera m the Seco	tor and the operator's authoriz retary, at the WV Department of 226-0450) or by visiting <u>www.de</u>	ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Pursuant to V facsimile num related to hor located at 601 Notice is her Well Operator	Vest Virginia Conber and electronizontal drilling n 57th Street, SE, Coreby given by:  SWN Production	nic mail address of nay be obtained from Charleston, WV 253 Company, LLC	the opera m the Seco	tor and the operator's authoriz retary, at the WV Department of 126-0450) or by visiting www.de Authorized Representative:	ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.  Justin Booth
Pursuant to V facsimile num related to hor located at 601 Notice is her Well Operator	Vest Virginia Conber and electronizontal drilling no 57th Street, SE, Coreby given by:  SWN Production 1300 Fort Pierpor	nic mail address of nay be obtained from Charleston, WV 253 Company, LLC at Dr., Suite 201	the opera m the Seco	tor and the operator's authoriz retary, at the WV Department of 226-0450) or by visiting <u>www.de</u>	ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.  Justin Booth  1300 Fort Plerpont Dr., Suite 201
Pursuant to V facsimile num related to hor located at 601 Notice is her Well Operator Address:	Vest Virginia Conber and electronizontal drilling no 57th Street, SE, Coreby given by:  SWN Production 1300 Fort Pierpor Morgantown, WV	nic mail address of nay be obtained from Charleston, WV 253 Company, LLC at Dr., Suite 201	the opera m the Seco	tor and the operator's authorized retary, at the WV Department of 226-0450) or by visiting www.do  Authorized Representative: Address:	ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.   Justin Booth  1300 Fort Pierpont Dr., Suite 201  Morgantown, WV 26508
Pursuant to V facsimile num related to hor located at 601 Notice is her Well Operator Address:	Vest Virginia Conber and electronizontal drilling in 57th Street, SE, Coreby given by:  SWN Production 1300 Fort Pierpor Morgantown, WV 304-884-1675	nic mail address of nay be obtained from Charleston, WV 253 Company, LLC at Dr., Suite 201	the opera m the Seco	tor and the operator's authorize retary, at the WV Department of 226-0450) or by visiting www.de Authorized Representative: Address:  Telephone:	ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.  Justin Booth  1300 Fort Plerpont Dr., Suite 201  Morgantown, WV 26508  304-884-1675
Pursuant to V facsimile num related to hor located at 601 Notice is her Well Operator Address:	Vest Virginia Conber and electronizontal drilling no 57th Street, SE, Coreby given by:  SWN Production 1300 Fort Pierpor Morgantown, WV	nic mail address of nay be obtained from Charleston, WV 253 Company, LLC at Dr., Suite 201	the opera m the Seco	tor and the operator's authorized retary, at the WV Department of 226-0450) or by visiting www.do  Authorized Representative: Address:	ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.  Justin Booth  1300 Fort Pierpont Dr., Suite 201  Morgantown, WV 26508

### Oil and Gas Privacy Notice:

# STATE 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.

Notice Time I Date of Notic	Requirement: Notice shall be provided at e: 01/27/2021 Date Per	least TEN (10) days prior to filing a mit Application Filed:	permit application.
Delivery met	nod pursuant to West Virginia Code § 2	22-6A-16(b)	RECEIVED Office of Oil and Gas
☐ HAND	CERTIFIED MAIL		FEB 2 3 2021
DELIVE	RY RETURN RECEIPT REC	QUESTED	
receipt reques drilling a hori of this subsect subsection ma and if availabl	ion as of the date the notice was provided y be waived in writing by the surface owr e, facsimile number and electronic mail a	ner notice of its intent to enter upon the pursuant to subsection (a), section to to the surface owner: <i>Provided, hower.</i> The notice, if required, shall includers of the operator and the operator	ne surface owner's land for the purpose of n of this article satisfies the requirements rever, That the notice requirements of this ude the name, address, telephone number,
	eby provided to the SURFACE OW		
Name: James Br Address: 531 B Cameron, WV 260	riggs Lane	Name:Address:	
the surface ow State: County: District: Quadrangle: Watershed:	mer's land for the purpose of drilling a ho West Virginia Marshall Liberty Cameron 7 1/2', WV Fish Creek (HUC-10)	— UTM NAD 83 Easting:	Hows: 532,911.097 4,401,985.320 Fish Ridge Road Gladys Briggs MSH
Pursuant to W facsimile num related to hori	ber and electronic mail address of the o	operator and the operator's authorized Secretary, at the WV Department of	ess, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx.
Notice is her	eby given by:		
	SWN Production Company, LLC	Authorized Representative:	Justin Booth
Address:	1300 Fort Pierpont Dr., Suite 201	Address:	1300 Fort Pierpont Dr., Suite 201
	Morgantown, WV 26508		Morgantown, WV 26508
Telephone:	304-884-1675	Telephone:	304-884-1675
Email: Facsimile:	Justin_Booth@swn.com	Email: Facsimile:	Justin_Booth@swn.com

### Oil and Gas Privacy Notice:

4705102371 Operator Well No. Gianaya Briggs MSH 405H

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

Date of Not	ce: 01/27/2021 Date P	ermit Application Filed:	RECEIVED Office of Oil and Gas
Delivery me	thod pursuant to West Virginia	Code § 22-6A-16(c)	FEB 2 3 2021
■ CERT	IFIED MAIL	☐ HAND	_ WV Department of
7.7	RN RECEIPT REQUESTED	DELIVERY	Environmental Protection
return receip the planned required to b drilling of a damages to t (d) The notic of notice.	t requested or hand delivery, give operation. The notice required be provided by subsection (b), secti horizontal well; and (3) A propose surface affected by oil and gas ses required by this section shall be reby provided to the SURFACE	the surface owner whose land very this subsection shall include ion ten of this article to a surface sed surface use and compensate operations to the extent the dame given to the surface owner at the OWNER(s)	permit application, an operator shall, by certified mail will be used for the drilling of a horizontal well notice of (1) A copy of this code section; (2) The information e owner whose land will be used in conjunction with the ion agreement containing an offer of compensation for ages are compensable under article six-b of this chapter. The address listed in the records of the sheriff at the time
	ss listed in the records of the sheri	ff at the time of notice):  Name:	
Name: C/O Le	atherwood, Inc.		
Name: C/O Le. Address: 100			
Address: 100 Canonsburg, PA  Notice is her Pursuant to V	o Consol Energy Drive 15317 reby given: West Virginia Code § 22-6A-16(c)	Address:	undersigned well operator has developed a planned
Address: 100 Canonsburg, PA  Notice is her Pursuant to voperation or State: County:	o Consol Energy Drive 15317  reby given: West Virginia Code § 22-6A-16(c) the surface owner's land for the p West Virginia Marshall	Address:  , notice is hereby given that the purpose of drilling a horizontal v  UTM NAD 83	vell on the tract of land as follows: Easting: 532,911.097 Northing: 4,401,985.320
Address: 100 Canonsburg, PA  Notice is her Pursuant to voperation or State: County: District:	reby given: West Virginia Code § 22-6A-16(c) West Virginia West Virginia Marshall Liberty	Address:  , notice is hereby given that the purpose of drilling a horizontal v  UTM NAD 83  Public Road Ac	vell on the tract of land as follows:         Easting:       532,911.097         Northing:       4,401,985.320         ccess:       Fish Ridge Road
Address: 100 Canonsburg, PA  Notice is her Pursuant to voperation or State: County: District: Quadrangle:	reby given: West Virginia Code § 22-6A-16(c) the surface owner's land for the p West Virginia Marshall Liberty Cameron 7 1/2', WV	Address:  , notice is hereby given that the purpose of drilling a horizontal v  UTM NAD 83	vell on the tract of land as follows:         Easting:       532,911.097         Northing:       4,401,985.320         ccess:       Fish Ridge Road
Address: 100 Canonsburg, PA  Notice is her Pursuant to voperation or State: County: District: Quadrangle: Watershed:	reby given: Vest Virginia Code § 22-6A-16(c) the surface owner's land for the p West Virginia Marshall Liberty Cameron 7 1/2', WV Fish Creek (HUC-10)	Address:  , notice is hereby given that the purpose of drilling a horizontal v  UTM NAD 83  Public Road Ac	vell on the tract of land as follows: Easting: 532,911.097 Northing: 4,401,985.320 ccess: Fish Ridge Road
Address: 100 Canonsburg, PA  Notice is hel Pursuant to voperation or State: County: District: Quadrangle: Watershed:  This Notice Pursuant to voto be provide horizontal we surface affect information headquarters	reby given: West Virginia Code § 22-6A-16(c) the surface owner's land for the public West Virginia Marshall Liberty Cameron 7 1/2', WV Fish Creek (HUC-10)  Shall Include: West Virginia Code § 22-6A-16(c) ed by W. Va. Code § 22-6A-10(e) ell; and (3) A proposed surface us ted by oil and gas operations to te related to horizontal drilling may located at 601 57 <sup>th</sup> Street, SE,	Address:  , notice is hereby given that the purpose of drilling a horizontal way.  UTM NAD 83  Public Road Action Generally used  ), this notice shall include: (1)A  b) to a surface owner whose I way and compensation agreement the extent the damages are combe obtained from the Secretar	vell on the tract of land as follows:  Easting: 532,911.097  Northing: 4,401,985.320  farm name: Fish Ridge Road  Gladys Briggs MSH  copy of this code section; (2) The information required and will be used in conjunction with the drilling of a containing an offer of compensation for damages to the
Address: 100 Canonsburg, PA  Notice is her Pursuant to voperation or State: County: District: Quadrangle: Watershed:  This Notice Pursuant to vote be provided horizontal workershed affect information headquarters gas/pages/de	reby given:  Vest Virginia Code § 22-6A-16(c) I the surface owner's land for the public liberty  Cameron 7 1/2', WV  Fish Creek (HUC-10)  Shall Include:  West Virginia Code § 22-6A-16(c) ed by W. Va. Code § 22-6A-10(e) ell; and (3) A proposed surface us ted by oil and gas operations to the surface of the	Address:  , notice is hereby given that the purpose of drilling a horizontal way.  UTM NAD 83  Public Road Action Generally used  ), this notice shall include: (1)A  b) to a surface owner whose I way and compensation agreement the extent the damages are combe obtained from the Secretar Charleston, WV 25304 (3)	vell on the tract of land as follows:  Easting: 532,911.097  Northing: 4,401,985.320  Fish Ridge Road  Gladys Briggs MSH  copy of this code section; (2) The information required and will be used in conjunction with the drilling of a containing an offer of compensation for damages to the pensable under article six-b of this chapter. Additional y, at the WV Department of Environmental Protection 04-926-0450) or by visiting www.dep.wv.gov/oil-and-
Address: 100 Canonsburg, PA  Notice is hel Pursuant to voperation or State: County: District: Quadrangle: Watershed:  This Notice Pursuant to voto be provide horizontal wourface affectinformation	reby given:  Vest Virginia Code § 22-6A-16(c) I the surface owner's land for the public liberty  Cameron 7 1/2', WV  Fish Creek (HUC-10)  Shall Include:  West Virginia Code § 22-6A-16(c) ed by W. Va. Code § 22-6A-10(e) ell; and (3) A proposed surface us ted by oil and gas operations to the surface of the	Address:  Addres	vell on the tract of land as follows:  Easting: 532,911.097  Northing: 4,401,985.320  form name: Fish Ridge Road  Gladys Briggs MSH  copy of this code section; (2) The information required and will be used in conjunction with the drilling of a containing an offer of compensation for damages to the pensable under article six-b of this chapter. Additionally, at the WV Department of Environmental Protection

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

Delivery n	otice: 01/27/2021 Date Pe	rmit Application Filed: 🌈		application.  RECEIVED Gas Office of Oil and Gas
CER RET	method pursuant to West Virginia (	0	alor	Office of a 2021
CER RET	milital Resources to the Challength	Code § 22-6A-16(c)	1	EFB 2 3
RET				WV Department of wordental Protection
	RTIFIED MAIL	☐ HAND		WV Departal Protection
Pursuant to	TURN RECEIPT REQUESTED	DELIVERY		WV Department of Environmental Protection
return rece the planne required to drilling of damages to (d) The no of notice.	eipt requested or hand delivery, give to ed operation. The notice required by to be provided by subsection (b), section if a horizontal well; and (3) A propose to the surface affected by oil and gas of the provided by this section shall be thereby provided to the SURFACE (	he surface owner whose land this subsection shall included the of this article to a surface use and compended as the compensations to the extent the digiten to the surface owner owner.	d will be used for ide: (1) A copy face owner whos sation agreement amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information we land will be used in conjunction with the it containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
(at the add	lress listed in the records of the sheriff			
Name: ACN		_ / Name:		
	46226 National Road	_ / Addres	SS:	
St. Clairsville,	, OH 43950			
*				
	on the surface owner's land for the pu West Virginia Marshall Liberty	urpose of drilling a horizont  UTM NAD  Public Road	al well on the tra Easting: Northing:	well operator has developed a planned ct of land as follows: 532,911.097 4,401,985.320 Fish Ridge Road Gladys Briggs MSH
operation State: County: District:	on the surface owner's land for the putwest Virginia  Marshall Liberty  le: Cameron 7 1/2', WV	urpose of drilling a horizont  UTM NAD  Public Road	al well on the tra  Easting: Northing: Access:	ct of land as follows: 532,911.097 4,401,985.320 Fish Ridge Road
operation State: County: District: Quadrangl Watershed This Notice Pursuant to to be prov horizontal surface aff information headquarte	on the surface owner's land for the pure West Virginia    Marshall     Liberty     Cameron 7 1/2', WV     Fish Creek (HUC-10)     Ce Shall Include:   O West Virginia Code § 22-6A-16(c), wided by W. Va. Code § 22-6A-10(b)     well; and (3) A proposed surface use fected by oil and gas operations to the proposed to horizontal drilling may	this notice shall include: (I) to a surface owner whose and compensation agreement extent the damages are compensationed from the Secretary and compensation the Secretary and compensation the Secretary and compensation the Secretary and compensation agreement the damages are compensationed from the Secretary and secretary and secretary and secretary and secretary and secretary as a secretary and secretary	al well on the tra Easting: Northing: Access: Sed farm name:  Acopy of this eland will be tent containing an ompensable und	ct of land as follows: 532,911.097 4,401,985.320 Fish Ridge Road
operation State: County: District: Quadrangl Watershed This Notic Pursuant to to be prov horizontal surface aff information headquarte gas/pages/e	on the surface owner's land for the pure west Virginia  Liberty  le: Cameron 7 1/2', WV  fish Creek (HUC-10)  ce Shall Include:  o West Virginia Code § 22-6A-16(c), wided by W. Va. Code § 22-6A-10(b) well; and (3) A proposed surface use fected by oil and gas operations to the on related to horizontal drilling may ers, located at 601 57th Street, SE, default.aspx.	this notice shall include: (I) to a surface owner whose and compensation agreement extent the damages are compensationed from the Secretary and compensation the Secretary and compensation the Secretary and compensation the Secretary and compensation agreement the damages are compensationed from the Secretary and secretary and secretary and secretary and secretary and secretary as a secretary and secretary	al well on the tra Easting: Northing: Access: Sed farm name:  Accepy of this e land will be uent containing an ompensable und stary, at the WV (304-926-0450)	ct of land as follows:  532,911.097  4,401,985.320  Fish Ridge Road  Gladys Briggs MSH  code section; (2) The information required used in conjunction with the drilling of a coffer of compensation for damages to the er article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
operation State: County: District: Quadrangl Watershed This Notice Pursuant to to be prov horizontal surface aff information headquarte	on the surface owner's land for the putwest Virginia  Marshall Liberty le: Cameron 7 1/2', WV d: Fish Creek (HUC-10)  ce Shall Include: o West Virginia Code § 22-6A-16(c), wided by W. Va. Code § 22-6A-10(b well; and (3) A proposed surface use fected by oil and gas operations to the or related to horizontal drilling may ers, located at 601 57th Street, SE, (default.aspx.)	this notice shall include: (1) to a surface owner whose and compensation agreement extent the damages are of the obtained from the Secret Charleston, WV 25304	al well on the tra Easting: Northing: Access: Sed farm name:  Acopy of this eland will be tent containing an ompensable und	ct of land as follows:  532,911.097  4,401,985.320  Fish Ridge Road  Gladys Briggs MSH  code section; (2) The information required used 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 www.dep.wv.gov/oil-and-

Oil and Gas Privacy Notice:

# 4705102371 Operator Well No. Gladys Briggs MSN 4084

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

Date of	Fime Require Notice: 01/27/2	ment: notice shall be pro	ovided no ermit Ap	later than the filing pplication Filed:	date of permit	application.  RECENED Gas  Office of Oil and Gas
Deliver	y method pur	suant to West Virginia	Code § 2	22-6A-16(c)	Ī	Office of Diano  FEB 2 3 2021  FEB 2 3 2021  WV Department of Environmental Protection
CF CF	ERTIFIED M.	Δ 11		HAND		N Departa Prote
		EIPT REQUESTED		DELIVERY		EWNOUME.
return re the plan required drilling damages (d) The of notice	ceipt requeste ned operation to be provide of a horizonta to the surface notices require c.	ed or hand delivery, give i. The notice required b id by subsection (b), section al well; and (3) A propo e affected by oil and gas ed by this section shall be rided to the SURFACE	the surfa by this su ion ten o osed surfa operation e given to	ce owner whose land absection shall incluse this article to a surface use and compens to the extent the dother surface owner.	d will be used for ide: (1) A copy face owner whose sation agreemer amages are com	ication, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the nt containing an offer of compensation for spensable under article six-b of this chapter, sted in the records of the sheriff at the time
		n the records of the sheri	ff at the t			
_	oger Briggs 531 Briggs Lane			Name: Addres		
The state of the s	WV 26033		-/	Addres	S:	
	s hereby give		notice i	s hereby given that t	he undersigned	well operator has developed a planned
Pursuant operation State: County:	t to West Virg n on the surfa West Virg Marshall	inia Code § 22-6A-16(c) ice owner's land for the p		f drilling a horizont UTM NAD	Easting: Northing:	532,911.097 4,401,985.320
Pursuant operation State: County: District:	t to West Virg n on the surfa West Virg Marshall Liberty	inia Code § 22-6A-16(c) ace owner's land for the p		f drilling a horizont UTM NAD Public Road	al well on the tra Base Easting: Northing: Access:	act of land as follows: 532,911.097 4,401,985.320 Fish Ridge Road
Pursuant operation State: County: District:	to West Virg n on the surfa West Virg Marshall Liberty gle: Cameron	inia Code § 22-6A-16(c) ice owner's land for the p		f drilling a horizont UTM NAD Public Road	Easting: Northing:	act of land as follows: 532,911.097 4,401,985.320
Pursuant operation State: County: District: Quadran Watersho This No Pursuant to be proposed for a surface a informat headquart operation.	west Virg  Mest Virg  West Virg  Marshall Liberty  gle: Cameron ed: Fish Creel  tice Shall Inc. t to West Virg  ovided by W al well; and (3 affected by oi ion related to rters, located	inia Code § 22-6A-16(c) the owner's land for the prints  7 1/2, WV  (HUC-10)  lude: tinia Code § 22-6A-16(c)  Va. Code § 22-6A-10(l)  3) A proposed surface us I and gas operations to the horizontal drilling may at 601 57th Street, SE,	), this not b) to a see and con the exten	UTM NAD  Public Road Generally us  tice shall include: (1 urface owner whos mpensation agreement the damages are coined from the Secre	Al well on the tra Easting: Northing: Access: ed farm name:  A copy of this e land will be unt containing arompensable und tary, at the WV	act of land as follows: 532,911.097 4,401,985.320 Fish Ridge Road
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Pursuant operation State: County: District: Quadran Watersho This No Pursuant to be proposed for the proposed format headquart operations.	to West Virg  Mest Virg  Marshall Liberty  gle: Cameron ed: Fish Creel  tice Shall Inc. t to West Virg  ovided by W al well; and (2 affected by oi ion related to rters, located es/default.aspx  erator: SWN F me: 304-88	inia Code § 22-6A-16(e) the owner's land for the prints  7 1/2, WV (HUC-10)  lude: thinia Code § 22-6A-16(e) Va. Code § 22-6A-10(e) B) A proposed surface us I and gas operations to the prints horizontal drilling may at 601 57th Street, SE,	), this not b) to a see and con the exten	UTM NAD Public Road Generally us  tice shall include: (1 urface owner whos mpensation agreeme t the damages are coined from the Secre eston, WV 25304	al well on the tra Easting: Northing: Access: ed farm name:  A copy of this e land will be und containing arompensable und tary, at the WV (304-926-0450)	act of land as follows:  532,911.097  4,401,985.320  Fish Ridge Road  Gladys Briggs MSH   code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-

## Oil and Gas Privacy Notice:

4 70 perator Well Ro. 317 1

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

Notice Time Date of Noti	Requirement: notice shall be pro- ce: 01/27/2021 Date Pe		later than the filing oplication Filed: _(	date of permit	application.
Delivery me	thod pursuant to West Virginia (	Code § 2	22-6A-16(c)	1	
CERTI	FIED MAIL		HAND		
	RN RECEIPT REQUESTED		DELIVERY		
return receip the planned required to b drilling of a damages to t	t requested or hand delivery, give to operation. The notice required by e provided by subsection (b), section horizontal well; and (3) A propose the surface affected by oil and gas of	he surfa this su this su ten of ed surfa peration	ce owner whose land absection shall incluse this article to a surface use and compensate the date to the extent the date.	I will be used for de: (1) A copy ace owner whos sation agreement amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information see land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
Notice is her	eby provided to the SURFACE (	OWNER	R(s)		Office of Oil and Gas
The second of th	ss listed in the records of the sheriff	at the t			RECEI and Gas
Name: Patty Br		_/	Name:		FEB 2 3 2021
Address: 342 Cameron, WV 26			Addres	3;	WV Department of war Department of mental Protection
operation on State:	the surface owner's land for the pu West Virginia			I well on the tra Easting:	532,911.097
County:	Marshall			Northing:	4,401,985.320
District:	Liberty		Public Road		Fish Ridge Road
Quadrangle:	Cameron 7 1/2', WV		Generally use	ed farm name:	Gladys Briggs MSH
Watershed:	Fish Creek (HUC-10)				
Pursuant to V to be provid horizontal we surface affect information	ed by W. Va. Code § 22-6A-10(bell; and (3) A proposed surface use ted by oil and gas operations to the related to horizontal drilling may located at 601 57th Street, SE,	to a s and con e exten be obtain	urface owner whose mpensation agreeme t the damages are co ned from the Secret	land will be untracted that containing arompensable underly, at the WV	code section; (2) The information required used in conjunction with the drilling of a offer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting

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

Notice 'Date of	Fime Ro Notice:	equirement: notice shall be pr	ovided no ermit A	o later than the filing pplication Filed:	date of permit	application.	
Deliver	y metho	od pursuant to West Virginia	Code §	22-6A-16(c)			
■ C	FRTIFU	ED MAIL	П	HAND			
		RECEIPT REQUESTED	_	DELIVERY			
return re the plan required drilling damage (d) The of notice	eceipt re ined ope I to be p of a ho s to the notices e.	Va. Code § 22-6A-16(c), no equested or hand delivery, give eration. The notice required by provided by subsection (b), sectorizontal well; and (3) A proposurface affected by oil and gas required by this section shall be by provided to the SURFACE	the surface this so ion ten o osed surface operation be given t	ace owner whose lan ubsection shall inclu f this article to a surface use and compen as to the extent the dother the surface owner.  R(s)	d will be used for de: (1) A copy ace owner whose sation agreemer amages are com	or the drilling of of this code se se land will be un t containing an pensable under	f a horizontal well notice of ection; (2) The information used in conjunction with the a offer of compensation for article six-b of this chapter.
(at the a		isted in the records of the sheri	ff at the 1				
	annes prigg	go.	- /	Name:			
Name:		nos Lane	/		0.		
Name: Address Cameron,	: 531 Brig WV 26033 s hereb	y given:		Addres		usall amount or he	ne davaloned a planned
Name: Address Address Cameron, Notice i Pursuan operatio State: County: District:	s hereb t to Wes	y given: st Virginia Code § 22-6A-16(c e surface owner's land for the West Virginia Marshall		Addres  is hereby given that to of drilling a horizonta  UTM NAD 8	he undersigned all well on the trage Easting: Northing: Access:	sect of land as fol 532,911.097 4,401,985.320 Fish Ridge Road	RECEIVED Office of Oil and Gas
Name: Address Cameron, Notice i	s hereb t to Wes n on th	by given: st Virginia Code § 22-6A-16(c e surface owner's land for the West Virginia Marshall		Addres  is hereby given that to of drilling a horizonta  UTM NAD 8	he undersigned al well on the tra Easting: Northing:	oct of land as fol 532,911.097 4,401,985.320	RECEIVED Office of Oil and Gas
Name: Address Cameron, Notice i Pursuan operatio State: County: District: Quadrar Watersh This No Pursuan to be pi horizont surface informa headqua gas/paga	s hereb t to Wes n on th  logle: C ed: F  otice Sh t to Wes covided tal well; affected tion rela arters, logs/defau	by given: st Virginia Code § 22-6A-16(c) e surface owner's land for the Mest Virginia Marshall Liberty Cameron 7 1/2', WV Tish Creek (HUC-10)  all Include: st Virginia Code § 22-6A-16(c) by W. Va. Code § 22-6A-16(c) and (3) A proposed surface us if by oil and gas operations to ated to horizontal drilling may becated at 601 57th Street, SE,	), this no b) to a see and co	Address is hereby given that to of drilling a horizonta  UTM NAD to the public Road Generally us series shall include: (I surface owner whose the damages are content the damages are content from the Secret eston, WV 25304	he undersigned all well on the tra Basting: Northing: Access: Ed farm name:  Acopy of this eland will be understand arm name;  arm containing arompensable undersy, at the WV	act of land as fol 532,911.097 4,401,985.320 Fish Ridge Road Gladys Briggs MSH code section; (2 used in conjunct offer of composite article six-b	RECEIVED Office of Oil and Gas  FEB 2 3 2021  WV Department of Environmental Protection The information required ction with the drilling of a ensation for damages to the of this chapter. Additional f Environmental Protection
Name: Address Address Address Address Pursuan operatio State: County: Quadrar Watersh This No Pursuan to be pr horizont surface informat headqua gas/page	s hereb t to Wes n on th  L ngle: G t to Wes notice Sha t to Wes rovided al well; affected tion rela arters, lo es/defau  perator:	by given: st Virginia Code § 22-6A-16(c) e surface owner's land for the Mest Virginia Marshall Liberty Cameron 7 1/2', WV Tish Creek (HUC-10)  all Include: st Virginia Code § 22-6A-16(c) by W. Va. Code § 22-6A-16(c) and (3) A proposed surface us if by oil and gas operations to ated to horizontal drilling may becated at 601 57th Street, SE,	), this no b) to a see and co	Address is hereby given that to of drilling a horizonta  UTM NAD a  Public Road  Generally us  tice shall include: (1 surface owner whose mpensation agreement the damages are coined from the Secre	he undersigned all well on the tra Basting: Northing: Access: Ed farm name:  Acopy of this eland will be understand arm name;  arm containing arompensable undersy, at the WV	act of land as fol 532,911.097 4,401,985,320 Fish Ridge Road Gladys Briggs MSH  code section; (2 used in conjunct offer of composer article six-b  Department of or by visiting	RECEIVED Office of Oil and Gas  FEB 2 3 2021  WV Department of Environmental Protection The information required ction with the drilling of a ensation for damages to the of this chapter. Additional f Environmental Protection
Name: Address Cameron, Notice i Pursuan operatio State: County: District: Quadrar Watersh This Not Pursuan to be proposed by the proposed information of the proposed info	s hereb t to Wes n on th  L ngle: G t to Wes notice Sha t to Wes rovided al well; affected tion rela arters, lo es/defau  perator:	by given: st Virginia Code § 22-6A-16(c) e surface owner's land for the post Virginia Marshall Liberty Cameron 7 1/2', WV Fish Creek (HUC-10)  all Include: st Virginia Code § 22-6A-16(c) by W. Va. Code § 22-6A-10(c) and (3) A proposed surface used by oil and gas operations to lated to horizontal drilling may posted at 601 57th Street, SE, silt.aspx.	), this no b) to a see and co	Address is hereby given that to of drilling a horizonta  UTM NAD to the public Road Generally us series shall include: (I surface owner whose the damages are content the damages are content from the Secret eston, WV 25304	the undersigned all well on the tracesting: Northing: Access: and farm name:  Acopy of thise land will be understontaining arompensable undersy, at the WV (304-926-0450)	act of land as fol 532,911.097 4,401,985,320 Fish Ridge Road Gladys Briggs MSI  code section; (2 used in conjunct offer of competer article six-b Department of or by visiting	RECEIVED Office of Oil and Gas  FEB 2 3 2021  WV Department of Environmental Protection The information required ction with the drilling of a ensation for damages to the of this chapter. Additional f Environmental Protection

Pendine Namo	Product Use	Chemical Name	CAS Number
N-303 (U.S. Well Services)	Mixture	Ethylene glycol	107-21 1
		Cinnamaldehyde	104-55 2
		Butyl cellosolve	111-76 2
		Formic acid	64-18 6
		Polyether	Proprietary
		Acetophenone, thiourea, formaldehyde polymer	68527-49 1
	10 Str. 1975		
AP ONE (U.S. Well Services)	Breaker	Ammonium persulfate	7727-54-0
Bactron K-139 (Champion Technologies)	Biocide	Glutaraldehyde	111-30-8
The second secon		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
		Ethanol	64-17-5
		140-140-140-140	
lactron K-219 (Champion Technologies)	Biocide	Methanol	67-56-1
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
CarboNRT	Tracer	Ceramic Proppant	66402-68-4
C6486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate	Proprietary
		Ethylene Glycol	107-21-1
C6734A (Champion Technologies)	Biocide	Hydrogen Peroxide	7722-84-1
corp. (champion rediniologics)		Acetic Acid	64-19-7
		Peroxyacetic Acid RECEIVED	79-21-0
cono-CI200 (SWN Well Services)	Corrosion Inhibitor	Methanol Office of Oil and Gas	67-56-1
STATE OF THE PARTY OF THE SAME		Oxyalkylated fatty acid	68951-67-7
			61790-12-3
		FFR 7.3 /11/1	
		Wodified tiffod ea polymer	68527-49-1
		Water	7732-18-5
		Hydrochloric acid WV Department of	7647-01-0
		Potassium acetate Environmental Protection	127-08-2
			50-00-0
		Formaldehyde	
copol-FEAC (SWN Well Services)	Iron Control	Acetic Acid	64-19-7
		Citric Acid	77-92-9
		Water	7732-18-5
	East to the second		
DP-S1176-15 (Halliburton)	Friction Reducer	Polyacylate	Proprietary
		Hydrotreated light petroleum distillate	64742-47-8
LOJET DR900 LPP (SWN Well Services)	Friction Reducer	Distillates (petroleum) hydrotreated light	64674-47-8
LOSE I DIGGOO EL I (SWIN WELL SELVICES)	THEODI NEGGEE	Ethylene Glycol	107-21-1
		Alcohols, C12-16, Exoxylated propoxylated	68213-24-1
		Fatty Alcohols ethoxylated	Proprietary
		Water	7732-18-5
and the second s	Potestica Barbara	Proprietary	Proprietary
LOJET DRP 1130X (SWN Well Services)	Friction Reducer		
R-76 (Halliburton)	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
		Inorganic Salt	Proprietary
With the state of	Coole tubibles	Methanol	67-56-1
SYPTRON T-390 (Champion Technologies)	Scale Inhibitor		
		Nonyiphenol Ethoxylate	Proprietary
IAI-150E (Halliburton)	Corrosion Inhibitor	No hazardous substance	N/A
ICL (SWN Well Services)	Hydrocholic Acid	Hydrochloric Acid	7647-01-0
ICT (20014 AVEIL 26LAICEZ)	Hydrocholic Acid	Water	7732-18-5
P-65 MC (Halliburton)	Scale Inhibitor	Organic phosphonate	Proprietary
		Ammonium Chloride	12125-02-9
PTI-FLEX (U.S. Well Services)	Viscosifying Agent	Distillates, petroleum, hydrotreated light	64742-47-8
Plexslick 930	Friction Reducer	Copolymer of 2-propenamide	Proprietary
		Hydrotreated Distillate	64742-47-8
		Sodium Chloride	7647-14-5
			68551-12-2
		Alcohols, C12-16, Exoxylated	
		Oleic Acid Diethanolamide	93-83-4
		Ammonium Chloride	12125-02-9
		Petroleum Distillate	64742-47-8
Plexslick 953	Friction Reducer		
Plexslick 953	Friction Reducer	Sodium Chlorida	7547-14-5
Plexslick 953	Friction Reducer	Sodium Chloride	7647-14-5
Plexslick 953	Friction Reducer	Ammonium Chloride	12125-02-9
Plexslick 953	Friction Reducer		transfer bedaring market filled their files
	The state of the s	Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide	12125-02-9 93-83-4
	Friction Reducer	Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distillate	12125-02-9 93-83-4 64742-47-8
	The state of the s	Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distillate Ammonium Chloride	12125-02-9 93-83-4 64742-47-8 12125-02-9
	The state of the s	Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4
	The state of the s	Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distillate Ammonium Chloride	12125-02-9 93-83-4 64742-47-8 12125-02-9
	The state of the s	Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4
Plexslick 957	Friction Reducer	Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide  Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5
Plexslick 957	Friction Reducer	Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide  Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water  Hydrotreated light distillate (petroleum)	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8
Plexslick 957	Friction Reducer	Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide  Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5
Plexslick 957 VFRA-2000 (U.S. Well Services)	Friction Reducer	Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide  Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water  Hydrotreated light distillate (petroleum)	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8
Plexslick 957 NFRA-2000 (U.S. Well Services) Plexaid 655 NM	Friction Reducer  Anionic Friction Reducer  Scale Inhibitor	Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide  Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water  Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide  Diethylenetriamine penta (methylene phosphonic acid)	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8
Plexslick 957  WFRA-2000 (U.S. Well Services)  Plexaid 655 NM	Friction Reducer  Anionic Friction Reducer	Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide  Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water  Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide  Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4
Plexslick 957  WFRA-2000 (U.S. Well Services)  Plexaid 655 NM	Friction Reducer  Anionic Friction Reducer  Scale Inhibitor	Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide  Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water  Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide  Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8
Plexslick 957  WFRA-2000 (U.S. Well Services)  Plexaid 655 NM	Friction Reducer  Anionic Friction Reducer  Scale Inhibitor	Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide  Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water  Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide  Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI)	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9
Plexslick 957 WFRA-2000 (U.S. Well Services) Plexaid 655 NM	Friction Reducer  Anionic Friction Reducer  Scale Inhibitor	Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide  Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water  Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide  Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8
Plexslick 957  WFRA-2000 (U.S. Well Services)  Plexaid 655 NM  Plexslick 922	Friction Reducer  Anionic Friction Reducer  Scale Inhibitor no data available	Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide  Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water  Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide  Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9
Plexslick 953  Plexslick 957  WFRA-2000 (U.S. Well Services)  Plexaid 655 NM  Plexslick 922  Tolcide PS50A	Friction Reducer  Anionic Friction Reducer  Scale Inhibitor	Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide  Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water  Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide  Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide Tetrakis (hydroxymethyl) phosphonium sulphate	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4
Plexslick 957  WFRA-2000 (U.S. Well Services)  Plexaid 655 NM  Plexslick 922	Friction Reducer  Anionic Friction Reducer  Scale Inhibitor no data available	Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide  Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water  Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide  Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide  Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8
Plexslick 957  WFRA-2000 (U.S. Well Services)  Plexaid 655 NM  Plexslick 922  Tolcide PS50A	Anionic Friction Reducer  Scale Inhibitor no data available  Biocidal product	Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide  Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water  Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide  Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide  Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8
Plexslick 957  WFRA-2000 (U.S. Well Services)  Plexaid 655 NM  Plexslick 922	Friction Reducer  Anionic Friction Reducer  Scale Inhibitor no data available	Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide  Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water  Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide  Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide  Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8
Plexslick 957  WFRA-2000 (U.S. Well Services)  Plexaid 655 NM  Plexslick 922  Tolcide PS50A	Anionic Friction Reducer  Scale Inhibitor no data available  Biocidal product	Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide  Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water  Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide  Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide  Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8
Plexslick 957  WFRA-2000 (U.S. Well Services)  Plexaid 655 NM  Plexslick 922  Tolcide PS50A	Anionic Friction Reducer  Scale Inhibitor no data available  Biocidal product	Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide  Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water  Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide  Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide  Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups Hydrotreated light petroleum distillate Ethoxylated alcohol	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8 897256-50-7 64742-47-8 Proprietary
Plexslick 957  WFRA-2000 (U.S. Well Services)  Plexaid 655 NM  Plexslick 922  Tolcide PS50A	Anionic Friction Reducer  Scale Inhibitor no data available  Biocidal product	Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide  Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water  Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide  Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide  Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups Hydrotreated light petroleum distillate	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8
Plexslick 957  WFRA-2000 (U.S. Well Services)  Plexaid 655 NM  Plexslick 922  Folcide PS50A	Anionic Friction Reducer  Scale Inhibitor no data available  Biocidal product	Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide  Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water  Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide  Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide  Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups Hydrotreated light petroleum distillate Ethoxylated alcohol	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8 897256-50-7 64742-47-8 Proprietary
Plexslick 957  WFRA-2000 (U.S. Well Services)  Plexaid 655 NM  Plexslick 922  Folcide PS50A	Anionic Friction Reducer  Scale Inhibitor no data available  Biocidal product  Friction Reducer	Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide  Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water  Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide  Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)Cl) Oleic Acid Diethnolamide Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups Hydrotreated light petroleum distillate Ethoxylated alcohol  Poly (oxy-1.2-ethanediyl) alphatridecylomegahydroxy-, branched Methanol	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8 397256-50-7 64742-47-8 Proprietary 69011-36-5 67-56-1
Plexslick 957  WFRA-2000 (U.S. Well Services)  Plexaid 655 NM  Plexslick 922  Tolcide PS50A	Anionic Friction Reducer  Scale Inhibitor no data available  Biocidal product  Friction Reducer	Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide  Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water  Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide  Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)Cl) Oleic Acid Diethnolamide Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups Hydrotreated light petroleum distillate Ethoxylated alcohol  Poly (oxy-1.2-ethanediyl) alphatridecylomegahydroxy-, branched	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8 397256-50-7 64742-47-8 Proprietary 69011-36-5



# WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

January 25, 2021

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 57<sup>th</sup> Street, SE Charleston, WV 25304

Subject: DOH Permit for the Gladys Briggs Pad, Marshall County Gladys Briggs MSH 405H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2012-0489 which has been issued to Southwestern Energy for access to the State Road for a well site located off Marshall County Route 94 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. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc.

Brittany Woody Southwestern Energy CH, OM, D-6 File RECEIVED
Office of Oil and Gas

FEB 2 3 2021

WV Department of Environmental Protection

MAR 2 9 2021

# GRID NORTH UM, MAGRIS DATUM, ZONE 17, US FT

# GLADYS BRIGGS MSH PAD CONSTRUCTION AND RECLAMATION PLAN AS-BUILT LIBERTY DISTRICT, MARSHALL COUNTY, WV AUGUST 2015

TOTAL DISTURBED AREA: 8.4 ACRES ROAD DISTURBED AREA: 3.5 ACRES PAD DISTURBED AREA: 4.9 ACRES

1000 0 1000 COORDINATES: 1"=1000 WVDEP OOG SITE ENTRANCE (NAD83) S ACCEPTED AS-BUILT GRID NORTH
33 DATUM, ZONE 17, U LAT: 39.771899 LONG: 80.607187 1/8/2016 AT BRIGGS PAD (NAD83) LAT: 39,767864 PROJECT LONG: 80.615884 UTM, NAD83 D LOCATION CENTER OF PAD (NAD83) LAT: 39.767143 WETZEL LONG: 80.615970 TAYLOR GATHERING AREA (NAD83) TUCKER LAT: 39,771728 LONG: 80.608802 CHAFR NICHOLAS POCAHDNIAS STATE OF MERCER NCOUND! 01-07-2016 EXISTING WELL:
BRIGGS MSH 8H
(NAD83)
LAT: 39.767080
LONG: 80.615852

PROPOSED WELLS: BRIGGS MSH 6H (NAD83) LAT: 39.767053 LONG: 80.615888

BRIGGS MSH 10H (NAD83) LAT: 39.767107 LONG: 80.615817

BRIGGS MSH 205H (NAD83) LAT: 39.767173 LONG: 80.615830

BRIGGS MSH 210H (NAD83) LAT: 39.767133 LONG: 80.615781

SHEET INDEX WV Department of EP2.1 EVACUATION ROUTE PREVAILING WIND Protection EP2.2 EVACUATION ROUTE/ PREVAILING WIND AS3.1 ASBUILT OVERVIEW AS3.2 ASBUILT AS3.3 ASBUILT AS3.4 ASBUILT AS3.5 ASBUILT AS3.6 ASBUILT AS3.7 ASBUILT ASR4.1 CONSTRUCTION AND RECLAMATION ACCESS ROAD PROFILE MRD5.1 RECLAMATION PLAN OVERVIEW MRD5.2 RECLAMATION PLAN MRD5.3 RECLAMATION PLAN MRD5.4 RECLAMATION PLAN MRD5.5 RECLAMATION PLAN MRD5.6 RECLAMATION PLAN MRD5.7 RECLAMATION PLAN MRD6.3 RECLAMATION DETAILS

 REVISION
 DATE

 CHANGES ON SHEETS
 10-16-2015

 AS3.7, ASR4.1, & MRD5.7
 11-23-2015

 CHANGES ON SHEETS
 11-23-2015

 AS3.7 & MRD5.7,
 ALSO ADDED SHEET MRD6.4

 CELLAR DETAIL
 01-07-2016

 AS3.7, MRD5.7, & MRD6.4
 01-07-2016

MRD6.4 RECLAMATION DETAILS





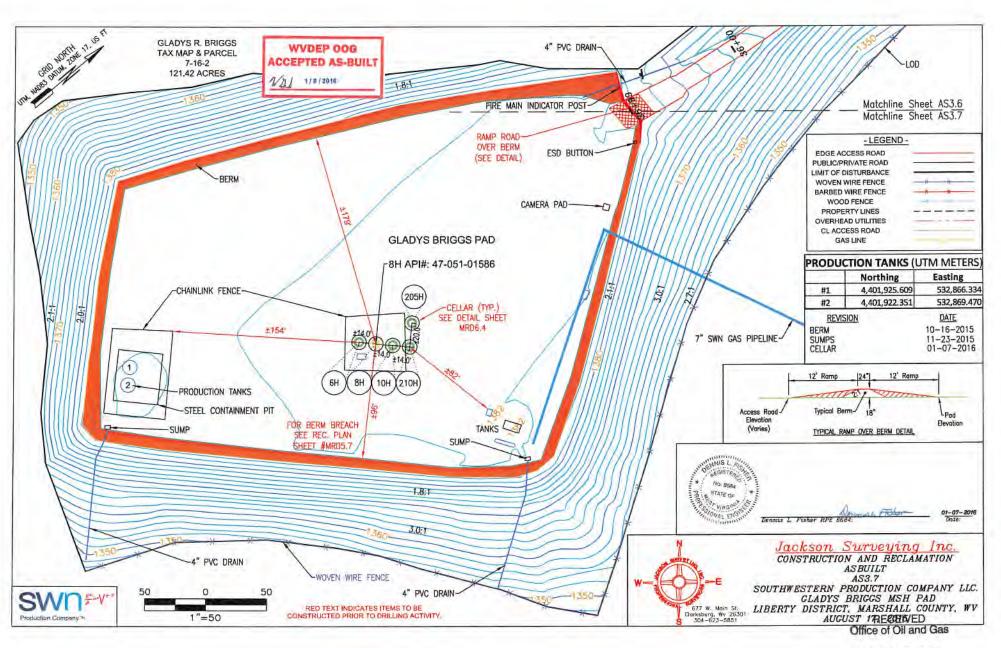


# Jackson Surveying Inc.

TITLE SHEET

TS.1

SOUTHWESTERN PRODUCTION COMPANY LLC. GLADYS BRIGGS MSH PAD LIBERTY DISTRICT, MARSHALL COUNTY, WV AUGUST 17, 2015



MAR 2 9 2021