



west virginia department of environmental protection

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

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

Monday, July 20, 2020
WELL WORK PERMIT
Horizontal 6A / New Drill

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

Re: Permit approval for CONSTANCE TAYLOR WTZ 3H
47-103-03353-00-00

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.

A handwritten signature in blue ink, appearing to read "James A. Martin".

James A. Martin
Chief

Operator's Well Number: CONSTANCE TAYLOR WTZ 3
Farm Name: CONSTANCE A TAYLOR
U.S. WELL NUMBER: 47-103-03353-00-00
Horizontal 6A New Drill
Date Issued: 07/20/2020

Promoting a healthy environment.

PERMIT CONDITIONS

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

CONDITIONS

1. 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.

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

1) Well Operator: SWN Production Co., LLC 494512924 103-Wetzel 7-Proctor 681-Wileyville
Operator ID County District Quadrangle

2) Operator's Well Number: Constance Taylor WTZ 3H Well Pad Name: Constance Taylor WTZ

3) Farm Name/Surface Owner: Constance A. Taylor Public Road Access: Brock Ridge Road

4) Elevation, current ground: 1430' Elevation, proposed post-construction: 1430'

5) Well Type (a) Gas Oil _____ Underground Storage _____

Other _____

(b) If Gas Shallow Deep _____

Horizontal

*DMH
5-18-20*

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Target Formation- Marcellus, Up-Dip well to the North, Target Top TVD- 7405', Target Base TVD- 7448', Anticipated Thickness- 43', Associated Pressure- 4841

8) Proposed Total Vertical Depth: 7433'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 22892'

11) Proposed Horizontal Leg Length: 15039.86'

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12) Approximate Fresh Water Strata Depths: 365'

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13) Method to Determine Fresh Water Depths: Logs on the Pad

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14) Approximate Saltwater Depths: 1467' Salinity Profile Analysis

15) Approximate Coal Seam Depths: 1382'

16) Approximate Depth to Possible Void (coal mine, karst, other): None that we are aware of.

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

18) CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	126'	126' /	CTS
Fresh Water	13 3/8"	New	J-55	54.4#	470'	470' /	362 sx/CTS
Coal	See	Interm	Casing				
Intermediate	9 5/8"	New	J-55	36#	2900'	2900' /	826 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	22892'	22892' /	Tail 3904sx/ 100' Inside Intermediate
Tubing							
Liners							

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TYPE	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	1.19/50% Excess
Fresh Water	13 3/8"	17.5"	0.380	2740	633	Class A	1.19/50% Excess
Coal	See	Interm	Casing				
Intermediate	9 5/8"	12 1/4"	0.395	3950	1768	Class A	1.19/50% Excess
Production	5 1/2"	8 3/4"	0.361	12360	9500	Class A	1.20/50% Excess
Tubing							
Liners							

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PACKERS

Kind:				
Sizes:				
Depths Set:				

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.)

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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): 18.72

22) Area to be disturbed for well pad only, less access road (acres): 8.99

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 ***

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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.

*Note: Attach additional sheets as needed.

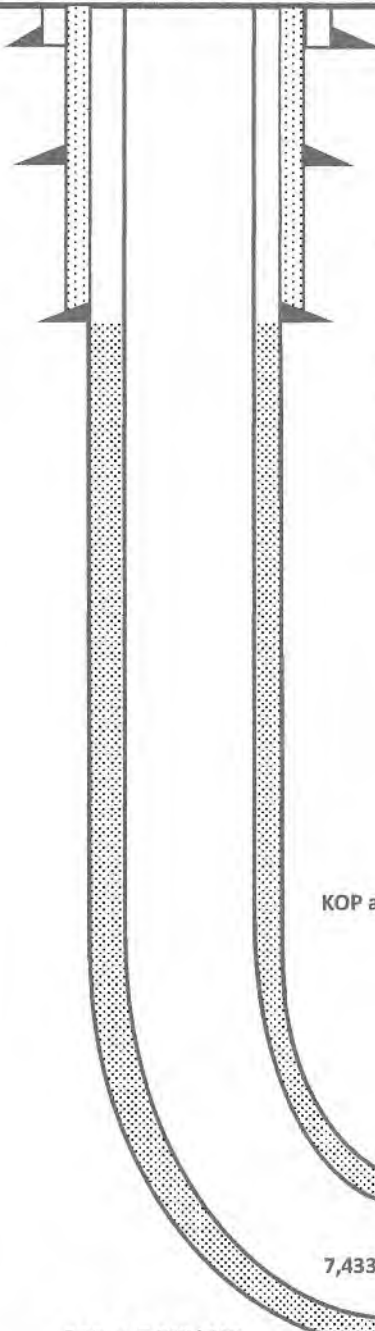
CEMENT ADDITIVES						
INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Number
SURFACE (FRESHWATER) <i>up to 3%</i>	 	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL PROTECTION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

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Southwestern Energy Company

Proposed Drilling Program

Well: CONSTANCE TAYLOR WTZ 3 **Re-entry Rig:** TBD
Field: VICTORY FIELD WET **Prospect:** Marcellus Shale
County: WETZEL **State:** WV
SHL: 39.6546 Latitude -80.6792 Longitude
BHL: 39.6840 Latitude -80.7203 Longitude
KB Elev: 1,456 ft MSL **KB:** 26 ft AGL **GL Elev:** 1,430 ft MSL



PROD TOC Lead @ 2,950' MD
PROD TOC Tail @ 6,653' MD

TUBULAR DETAIL

Casing String	Casing Size (in)	Weight (Min)	Grade (Min)	Planned Interval	
				From	To
Conductor	20	94.0 #	J-55	0'	126'
Surface	13.375	54.4 #	J-55	0'	470'
Int/Coal	9.625	36.0 #	J-55	0'	2,900'
Production	5.5	20.0 #	P-110 HP	0'	22,892'

CEMENT DETAIL

	Sacks	Class	Density
Conductor:	151	A	19.3
Surface:	362	A	15.6
Intermediate:	826	A	15.6
Production:	3904	A	15.6

KOP at 6,653' MD

Freshwater Depth - 365' TVD
 Coal Depth - 1,382' TVD
 Saltwater Depth - 1,467' TVD
 TVD - 7,433'
 TMD - 22,892'

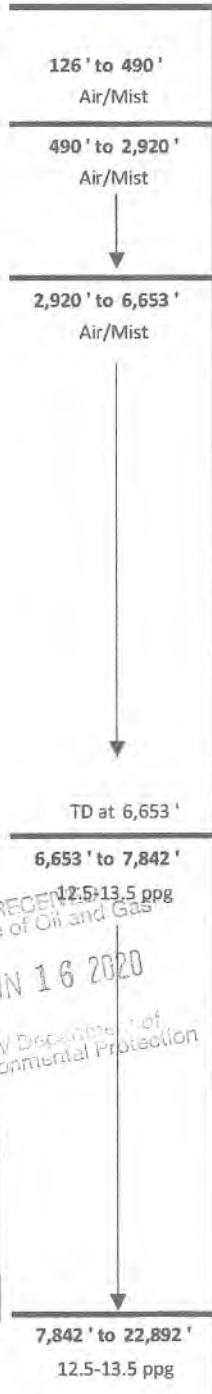
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7,433' Target Center

TD at 22,892' MD
 7,119' TVD

Onondaga 7,134' TVD

EOB at 7,842' MD
 EOB at 7,433' TVD
 SHL Onondaga 7,448' TVD



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Constance Taylor WTZ 3H AOR

API	Operator	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones Not Perforated
47-103-03149	SWN PRODUCTION COMPANY, LLC	ACTIVE	39.654652	-80.679254	7416	MARCELLUS	Burket, Tully
47-103-03150	SWN PRODUCTION COMPANY, LLC	ACTIVE	39.654526	-80.679223	7432	MARCELLUS	Burket, Tully

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WW-9
(4/16)

API Number 47 - 103 -
Operator's Well No. Constance Taylor WTZ 3H

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) Upper Ohio South Quadrangle Wileyville

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number Various Approved Facilities)
- Reuse (at API Number At the next anticipated well)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain recovery and solidification on site)

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5-18-20*

Will closed loop system be used? If so, describe: Yes- See Attachment 3A

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air drill to KOP, fluid drill with SOBM from KOP to TD

-If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Base

Additives to be used in drilling medium? Attachment 3B

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) _____

-Landfill or offsite name/permit number? Meadowfill SWF- 1032, Short Creek SWF-1034, Carbon Limestone MSWL018781, Wetzel County 1021

Apex Sanitary Landfill 06-08438, Brooke Co SWF-1013,
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
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I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto 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 or imprisonment.

Company Official Signature *Brittany Woody*
Company Official (Typed Name) Brittany Woody
Company Official Title Senior Regulatory Analyst



Subscribed and sworn before me this 1st day of May, 20 20

Jessica L. Van Gilder Notary Public

My commission expires 7-20-20

SWN Production Co., LLC

Proposed Revegetation Treatment: Acres Disturbed 18.72 Prevegetation pH _____

Lime as determined by pH test min.2 Tons/acre or to correct to pH 8.99

Fertilizer type 10-20-20

Fertilizer amount 600/500 lbs/acre

Mulch Hay/Straw Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type lbs/acre

Attachment 3C

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: _____

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Title: Oil & Gas Inspector

Date: 5-18-20

Field Reviewed? () Yes

() No

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 Separator (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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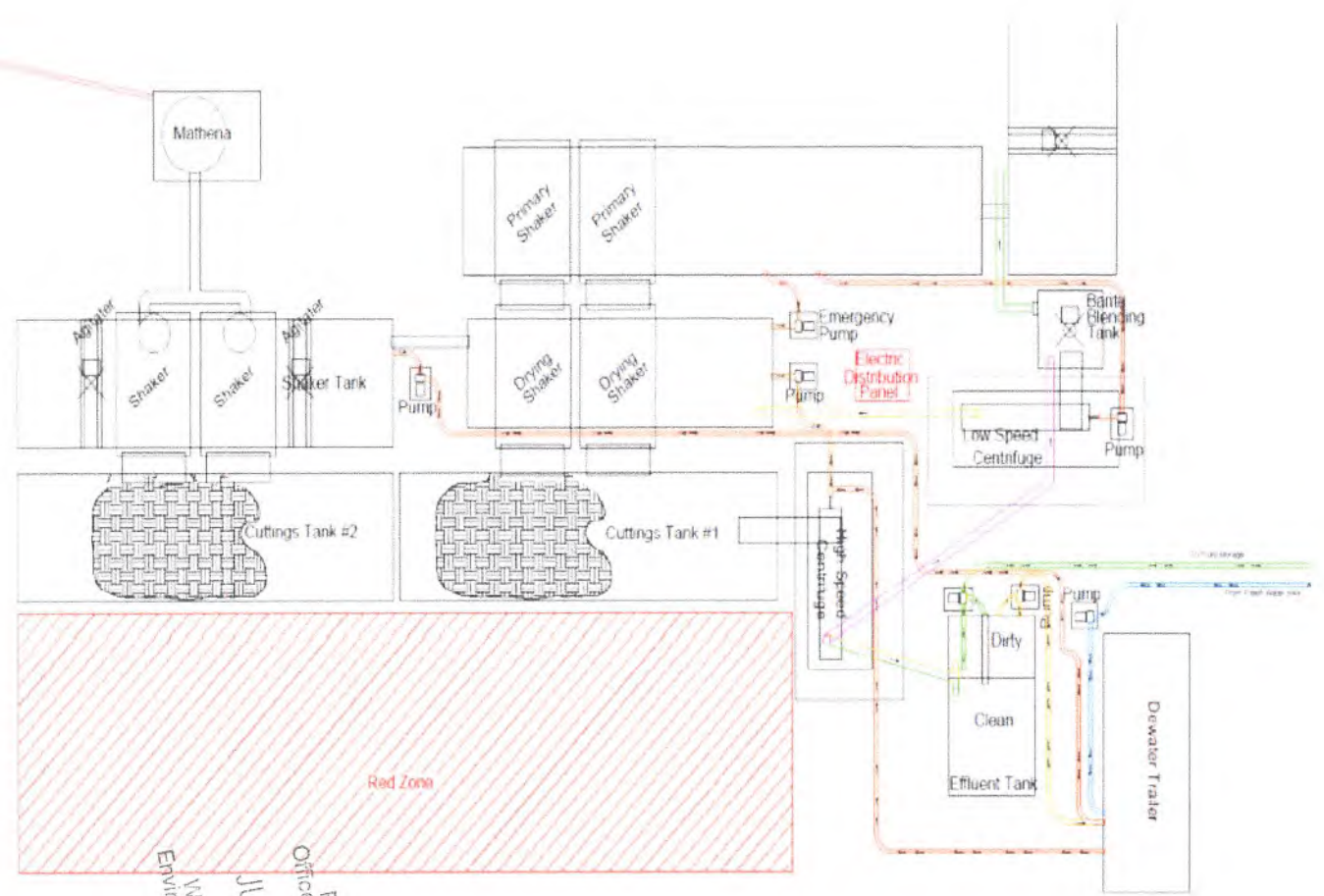
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Solids Control Layout



EXAMPLE SCHEMATIC FOR CLOSED LOOP SOLIDS CONTROL SYSTEM



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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

Brine (In Gas Storage areas)

Organophilic Bentonite

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

R⁺ → V⁺
A

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%
White Clover	5%
Birdsfoot Trefoil	5%
Rough Bluegrass	5%
All legumes are inoculated at 5x normal rate	
Apply @ 100lbs per acre April 16th- Oct. 14th	
Apply @ 200lbs per acre Oct. 15th- April 15th PLUS 50lbs per acre of Winter Wheat	

SOIL AMENDMENTS	
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.

ORGANIC PROPERTIES	
Seed Mixture: SWN Production Organic Mix	SWN Supplied
Organic Timothy	50%
Organic Red or White Clover	50%
OR	
Organic Perennial Ryegrass	50%
Organic Red or White Clover	50%
Apply @ 100lbs per acre April 16th- Oct. 14th	
Apply @ 200lbs per acre Oct. 15th- April 15th	
Organic Fertilizer @ 200lbs per Acre	Pelletized Lime @ 2 Tons per Acre

WETLANDS (delineated as jurisdictional wetlands)	
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 April 16th- Oct. 14th	
Apply @ 50lbs per acre Oct. 15th- April 15th	
NO FERTILIZER OR LIME INSIDE WETLAND LIMITS	

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MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN



SWN Production Company, LLC
1300 Fort Pierpont Drive, Suite 201
Morgantown, West Virginia 26508

API NO. 47-XXX-XXXXX
WELL NAME: Constance Taylor WTZ 3H
Wileyville QUAD
Proctor DISTRICT
WETZEL COUNTY, WEST VIRGINIA

Submitted by:

Name: Brittany Woody

Date: 4/28/2020

Brittany Woody

Title: Senior Regulatory Analyst

SWN Production Co., LLC

Approved by:

Name: *[Signature]*

Date: 5-18-20

Title: *Oil + Gas Inspector*

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Approved by:

Name: _____

Date: _____

Title: _____



BLAKE PAUL J
12 14003200000000

TAYLOR CONSTANCE A
12 14003300000000

BECKER ERICK
D & PHYLLIS
12 18000700000000

BECKER ERICK
D & PHYLLIS
12 18000700000000

**CONSTANCE
TAYLOR-WTZ-PAD1**

CRISP LORRAINE M
12 18000400010000

SHANOWER
BENJAMIN
12 18000600000000

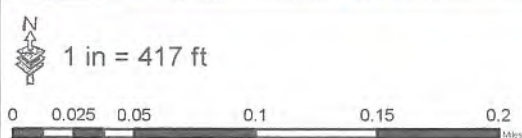
TAYLOR CONSTANCE A
12 18000600000000

REED JIMMY DUKE
& VICKY ANN
01 90003000000000

WILLIAMS RICHARD
E & STEPHANIE
12 18001100000000

RICHMAN TROY M
12 18001200000000

RICHMAN TROY M
12 18001800000000



- S Spring
- W Water Well
- P Pond
- Parcel
- 1500' Buffer

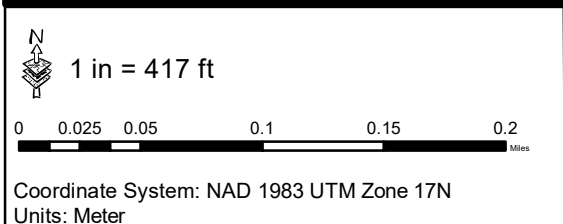
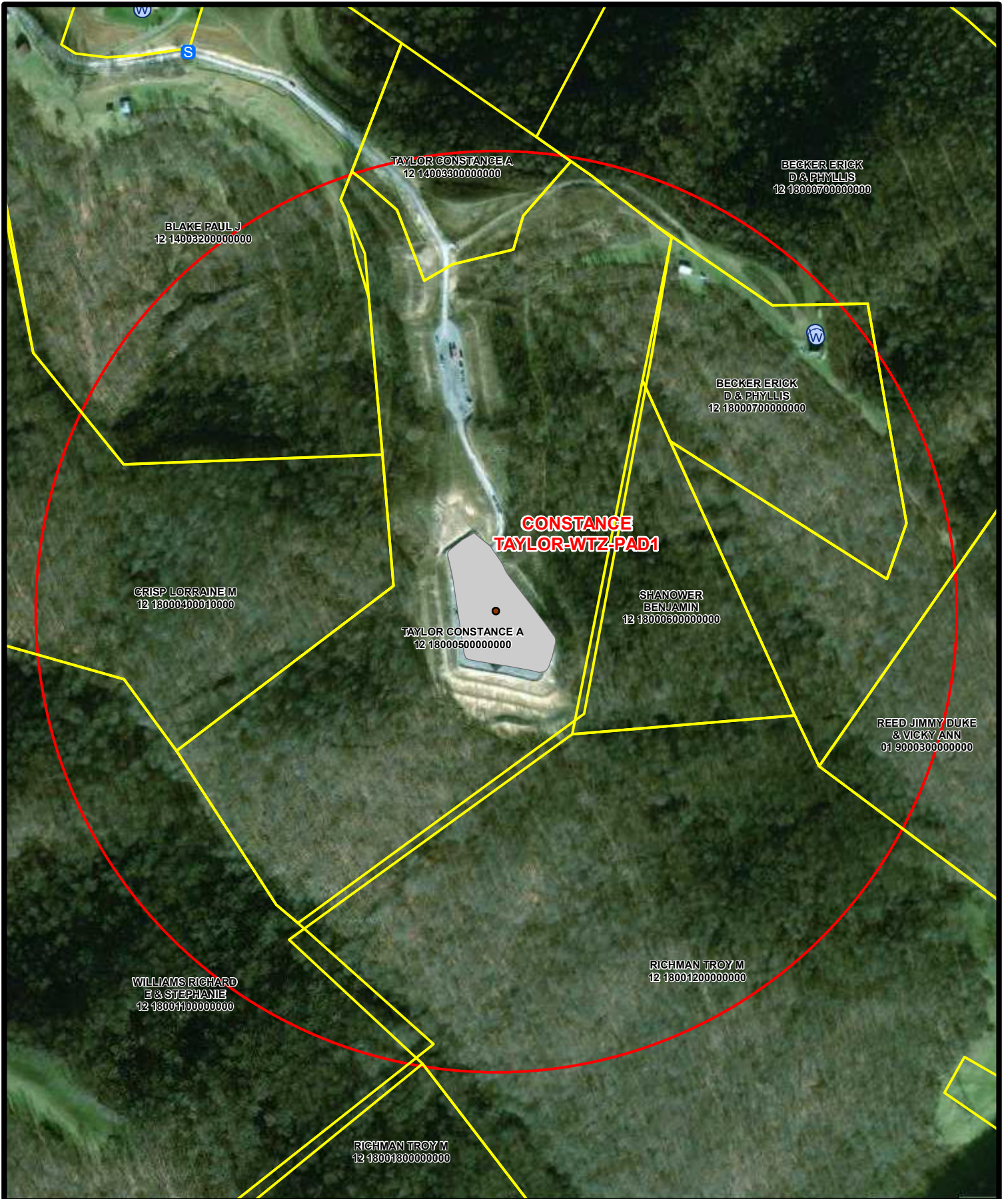
Water Purveyor Map
Well Pad: Constance Taylor
County: WTZ



Coordinate System: NAD 1983 UTM Zone 17N
Units: Meter

Coordinates: 39.654637, -80.679255

Date: 4/27/2020 | Author: willisb



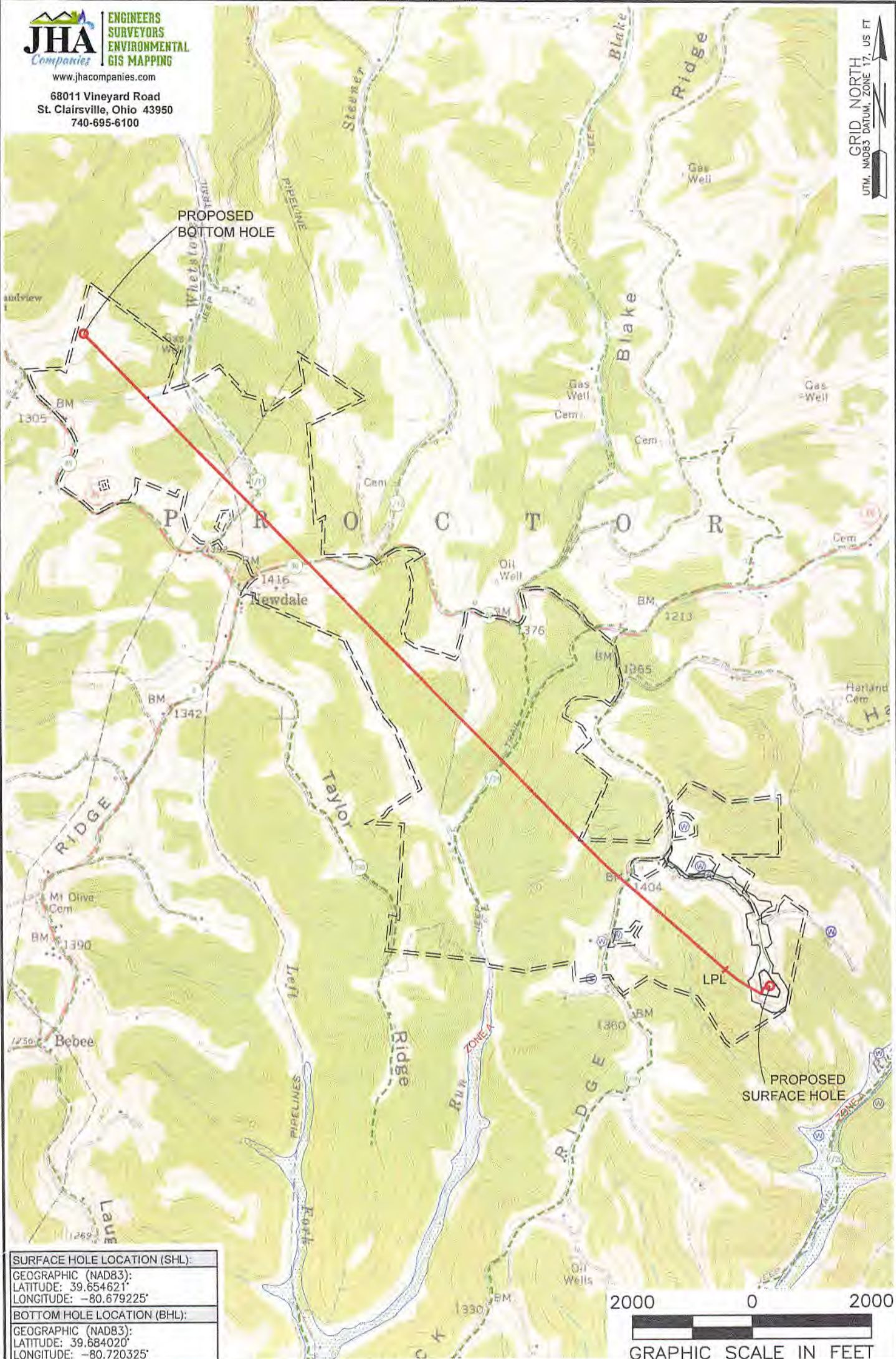
Spring	Parcel
Water Well	1500' Buffer
Pond	

Coordinates: 39.654637, -80.679255

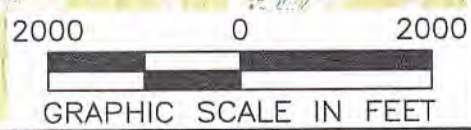
Water Purveyor Map
Well Pad: Constance Taylor
County: WTZ

SWN $\frac{R^2}{A} \rightarrow V^+$
Southwestern Energy®

Date: 4/27/2020 | Author: willisb



SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83):
LATITUDE: 39.654621°
LONGITUDE: -80.679225°
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83):
LATITUDE: 39.684020°
LONGITUDE: -80.720325°



NOTES ON SURVEY

1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
3. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

LEGEND:

	PROPOSED SURFACE HOLE / BOTTOM HOLE		NATURAL WATERWAY
	EXISTING / PRODUCING WELLHEAD		ACCESS ROAD
	LANDING POINT LOCATION		PUBLIC ROAD
	FLOOD PLAIN		ACCESS ROAD TO PREV. SITE
			LEASE BOUNDARY
			PROPOSED PATH

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: CONSTANCE TAYLOR WTZ	WELL # 3H	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201, MORGANTOWN, WV 26508	COUNTY: WETZEL	CODE: 103	DISTRICT: PROCTOR
SURFACE OWNER: CONSTANCE A. TAYLOR	USGS 7 1/2 QUADRANGLE MAP NAME: WILEYVILLE, WV		

LATITUDE: 39°40'00" SURFACE HOLE (2000' SCALE) ← 3545'

LATITUDE: 39°42'30" BOTTOM HOLE (2000' SCALE) ← 3373'

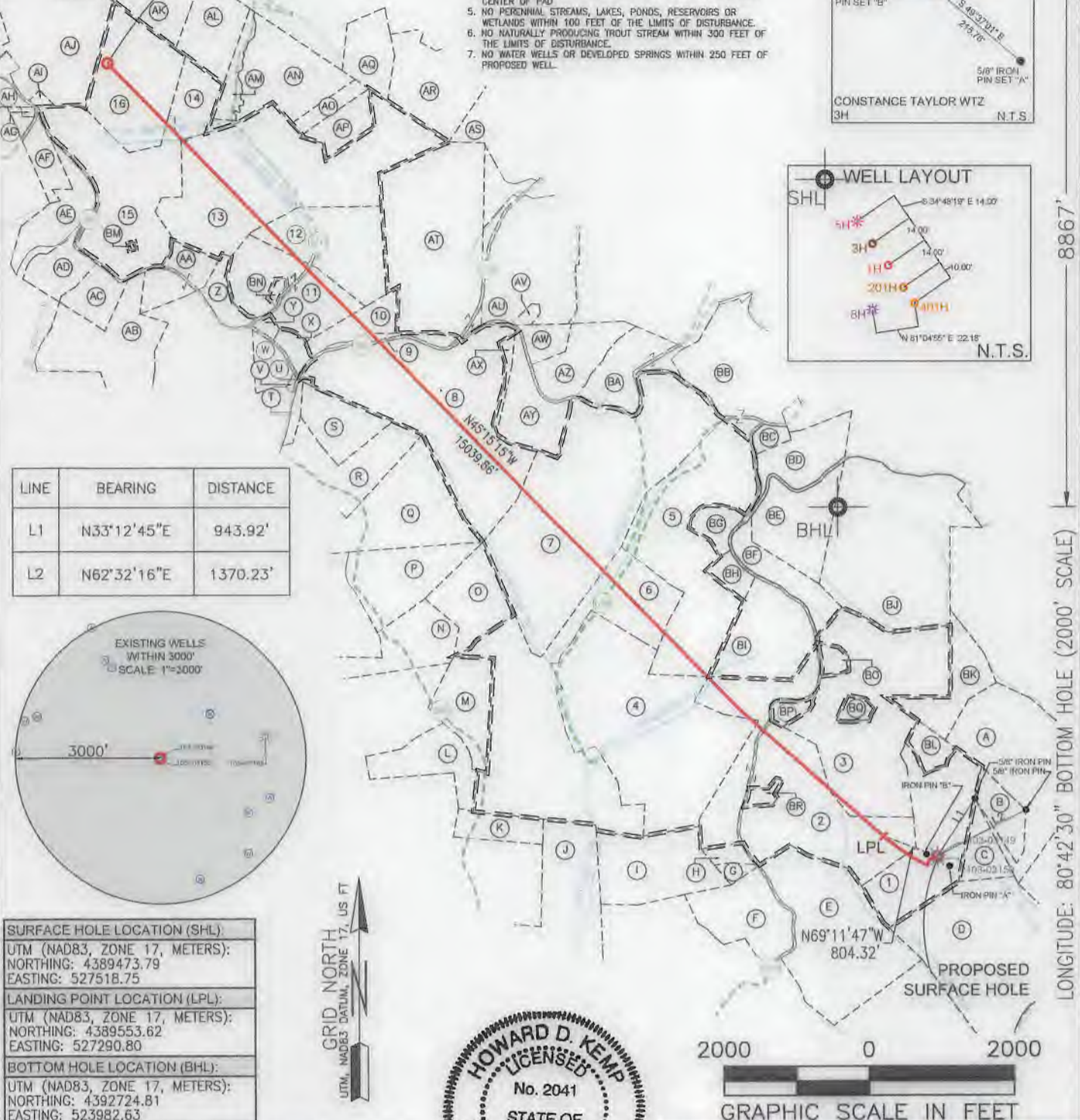
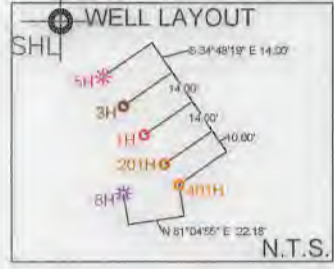
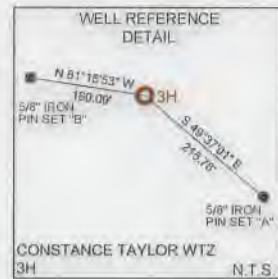


www.jhacompanies.com
68011 Vineyard Road
St. Clairsville, Ohio 43950
740-695-6100

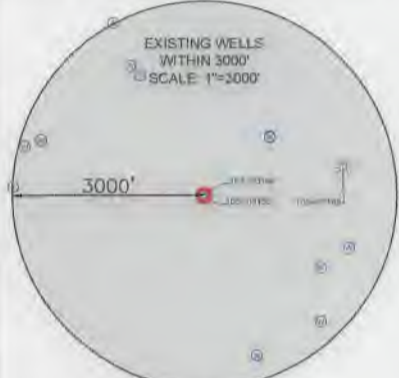
PROPOSED
BOTTOM HOLE

NOTES ON SURVEY

1. COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
2. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
3. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. NO DWELLINGS OR BUILDINGS WITHIN 525 FEET OF PROPOSED CENTER OF PAD.
5. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
6. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF THE LIMITS OF DISTURBANCE.
7. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.



LINE	BEARING	DISTANCE
L1	N33°12'45"E	943.92'
L2	N62°32'16"E	1370.23'



SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4389473.79 EASTING: 527518.75
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4389553.62 EASTING: 527290.80
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4392724.81 EASTING: 523982.63



I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 2041

COMPANY: **SWN** **SWN** ^{RC-V+0}
Production Company, LLC Production Company™

<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034</p>	<p>MINIMUM DEGREE OF ACCURACY: 1/200</p> <p>PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)</p>	<p>CONSTANCE TAYLOR WTZ</p> <p>OPERATOR'S WELL #: 3H</p> <p>API WELL #: 47 103 03353</p> <p>STATE COUNTY PERMIT</p>
	<p>WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input checked="" type="checkbox"/> DEEP <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> STORAGE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/></p> <p>WATERSHED: UPPER OHIO SOUTH</p> <p>DISTRICT: PROCTOR COUNTY: WETZEL</p> <p>SURFACE OWNER: CONSTANCE A. TAYLOR</p> <p>OIL & GAS ROYALTY OWNER: CONSTANCE A. TAYLOR</p> <p>DRILL <input checked="" type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input checked="" type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/></p> <p>CONVERT <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input type="checkbox"/> (SPECIFY)</p> <p>TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,433' TVD 22,892' TMD</p>	<p>ELEVATION: 1430.1'</p> <p>QUADRANGLE: WILEYVILLE, WV</p> <p>ACREAGE: ±43.5</p> <p>ACREAGE: ±43.5</p>

<p>WELL OPERATOR: SWN PRODUCTION COMPANY, LLC</p> <p>ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201</p> <p>CITY: MORGANTOWN STATE: WV ZIP CODE: 26508</p>	<p>DESIGNATED AGENT: BRITTANY WOODY</p> <p>ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201</p> <p>CITY: MORGANTOWN STATE: WV ZIP CODE: 26508</p>
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<p>LEGEND:</p> <ul style="list-style-type: none"> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ⊙ EXISTING / PRODUCING WELLHEAD LPL ⊙ LANDING POINT LOCATION ⊙ EXISTING WATER WELL ⊙ EXISTING SPRING — NATURAL WATERWAY — SURVEYED BOUNDARY == LEASE BOUNDARY — PROPOSED PATH — PUBLIC ROAD 	<p>REVISIONS:</p>	<p>DATE: 05-01-2020</p> <p>API NO: 47-103-XXXX</p> <p>DRAWN BY: R. GRIMES</p> <p>SCALE: 1" = 2000'</p> <p>DRAWING NO: 2020-557</p> <p>WELL LOCATION PLAT</p>
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WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	CONSTANCE A. TAYLOR (S)/(R)	12-18-05.0
TRACT	SURFACE OWNER	TAX PARCEL
2	KIP MARTIN & SNADRA K. BLAKE	12-18-04.1
3	BRENT PAUL BLAKE, ETAL; L/E PAUL J. BLAKE	12-14-32.3
4	KIP MARTIN & SANDRA K. BLAKE	12-14-31.0
5	JAMES H. FOGG	12-14-21.1
6	* BUSTER TERRY BLAKE	12-14-30.0
7	BUSTER BLAKE	12-14-12.1
8	KOREY L. & VICKI S. KANN	12-14-10.0
9	DAVE EBERT	12-14-10.1
10	THOMAS J. & LISA A. SHEPHERD	12-13-21.0
11	THOMAS J. & LISA A. SHEPHERD	12-13-17.0
12	THOMAS J. & LISA A. SHEPHERD	12-13-18.0
13	ALBERT L., JOSEPH A., & DEBRA HOHMAN	12-8-55.0
14	ALBERT, MARY, JOSEPH, & DEBRA HOHMAN	12-8-35.0
15	CLYDE V. & LISA K. STILLION	12-13-09.0
16	CLYDE V. & LISA K. STILLION	12-8-34.0

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	ERICK D. & PHYLLIS BECKER	12-18-07.0
B	BENJAMIN SHANDWER	12-18-07.1
C	BENJAMIN SHANDWER	12-18-06.0
D	TIMOTHY N. WELLS	12-18-12.0
E	TYLER C. BLAKE	12-18-11.0
F	TYLER C. BLAKE	12-18-10.0
G	WANDA JARRELL	12-18-02.0
H	DAVID F. & ROSANNE POSTLETHWAIT	12-18-03.0
I	WANDA HUGGINS	12-18-01.0
J	COASTAL FOREST RESOURCES CO.	12-18-08.0
K	HARRY E. & MICHAEL MCABEE	12-17-26.0
L	BUSTER & BARBARA A. BLAKE	12-17-13.0
M	MICHAEL DAVID MCABEE	12-14-29.0
N	HARRY E. & MICHAEL MCABEE	12-14-19.0
O	GARY E. SPEECE JR.	12-14-20.0
P	HARRY E. MCABEE	12-14-18.0
Q	MARY C. & ROBERT JOHN OLSEN	12-14-17.0
R	MARY C. & ROBERT JOHN OLSON	12-13-42.0
S	JAMES S. TAYLOR	12-13-31.0
T	JAMES S. TAYLOR	12-13-28.0
U	ISABELL C. PARKH, TRUSTEE OF THE PARIKH FAMILY TRUST	12-13-30.0
V	UNKNOWN OWNER	12-13-29.0
W	SWN PRODUCTION COMPANY, LLC	12-13-16.3
X	SWN PRODUCTION COMPANY, LLC	12-13-20.0
Y	THOMAS J. & LISA A. SHEPHERD	12-13-19.0
Z	THOMAS J. & LISA A. SHEPHERD	12-13-16.2
AA	JOSEPH HOHMAN	12-13-71.0
AB	CAROL MARTIN	12-13-15.4
AC	JEREMY S. GODDARD	12-19-15.3
AD	WAYNE EDWARD & MARY ANN GODDARD	12-13-15.0
AE	ROBERT A. & JACQUELINE GODDARD	12-13-15.1
AF	ROBERT A. & JACQUELINE GODDARD	12-13-53.0
AG	ROBERT A. & JACQUELINE GODDARD	12-8-54.0
AH	EVA GODDARD	12-8-50.0
AI	ROGER W. MASON & REGINA E. BRILL	12-8-32.4
AJ	ROGER W. MASON & REGINA E. BRILL	12-8-32.1
AK	ALBERT, MARY, & JOSEPH HOHMAN	12-8-24.4
AL	ALBERT L. & MARY L. HOHMAN	12-8-36.0
AM	FLOYD LEE GODDARD, ETAL	12-8-24.1
AN	JOSEPH A. & DEBRA K. HOHMAN	12-8-56.0
AO	ALBERT L. & JOSEPH A. HOHMAN	12-8-57.0
AP	ALBERT L., JOSEPH A., & JOSEPH K. HOHMAN	12-8-58.0
AQ	JOSEPH A. HOHMAN	12-8-38.0
AR	MARGARET SUE KELLEY	12-9-34.0
AS	MARGARET SUE KELLEY	12-9-29.0
AT	THOMAS J. & LISA A. SHEPHERD	12-14-01.0
AU	MICHAEL A. & PATRICK W. HUGGINS	12-14-02.1
AV	MICHAEL ALLEN & PEGGY HUGGINS	12-14-02.3
AW	MICHAEL ALLEN & PEGGY HUGGINS	12-14-02.2
AX	KOREY L. & VICKI S. KANN	12-14-11.0
AY	CHARLES E. & SHIRLEY M. SMITH	12-14-12.3
AZ	DONNA & STEPHEN WHITE	12-14-12.0
BA	SHEILA K. WHITE	12-14-12.4
BB	SWN PRODUCTION COMPANY, LLC	12-14-13.0
BC	QUENTIN ALAN YOCUM JR.	12-14-22.3
BD	T & C TRUST	12-14-22.1
BE	OWEN E. SCHMUCKER	12-14-22.0
BF	OWEN E. SCHMUCKER	12-14-21.4
BG	BURLE E. & SHIRLEY A. RICHMOND	12-14-21.0
BH	DAVID L. LONG	12-14-21.3
BI	DARLENE ELLEN WOOD	12-14-21.2
BJ	CATHERINE L. GODDARD & JAMES M. LEDERGERBER	12-14-23.0
BK	BRENT PAUL BLAKE, ETAL L/E PAUL J. BLAKE	12-14-34.0
BL	CONSTANCE A. TAYLOR	12-14-33.0
BM	GRANDVIEW-DOOLIN PUBLIC SERVICE DISTRICT	12-13-09.1
BN	THOMAS J. & LISA A. SHEPHERD	12-13-17.1
BO	BRENT PAUL BLAKE	12-14-32.0
BP	PAUL J. BLAKE	12-14-32.0
BQ	WALTER R. DICKIE JR.	12-14-32.1
BR	KIP MARTIN & SANDRA K. BLAKE	12-18-04.0

REVISIONS:

COMPANY:

SWN
Production Company, LLC

swn ^{REV} ^A ^{V+}
Production Company™

OPERATOR'S CONSTANCE TAYLOR WTZ
WELL #: 47-103-03353 HUA 3H

DATE: 05-01-2020
API NO: 47-103-XXXXX
DRAWN BY: R. GRIMES
SCALE: N/A
DRAWING NO: 2020-557
WELL LOCATION PLAT

DISTRICT:
PROCTOR

COUNTY:
WETZEL

STATE:
WV

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

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
See 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

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

Well Operator: SWN Production Company, LLC.
 By: Brandi Williams
 Its: Staff Landman

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 operating Constance Taylor 3H Wetzel County, West Virginia

4710303353

Tract #	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Interest Not Leased by SWN Production Company, LLC
1	12-18-5	Tammy Kemmetz, a married woman dealing in her sole and separate property Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC SWN Production Company, LLC	17.00%	130A/706 157A/540	
		Debra Keesee, a married woman dealing in her sole and separate property Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC SWN Production Company, LLC	17.00%	132A/456 157A/540	
		Joan Sauro, A/K/A Joany Sauro, a married woman dealing in her sole and separate property Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC SWN Production Company, LLC	17.00%	153A/480 157A/540	
		Leonard Dunham, A/K/A Leonard Sidney Dunham, a married man dealing in his sole and separate property Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC SWN Production Company, LLC	17.00%	130A/951 157A/540	
		Harold H. Blake And Donna M. Blake, H/W Haddad And Brooks, Inc.	Haddad And Brooks, Inc. Chesapeake Appalachia, LLC	12.50%	79A/452 104A/230	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
2	12-18-4.1	Buster Terry Blake And Barbara A. Blake, his wife Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC SWN Production Company, LLC	18.00%	131A/112 157A/540	0.0000%
		Paul J. Blake, A/K/A Paul Blake, A Widower (Life Estate Interest), Brent Paul Blake, A/K/A Brent P. Blake, a single man, Bruce Scott Blake, A/K/A Bruce S. Blake, a married man dealing in his sole and separate property And Kip Martin Blake, A/K/A Kip M. Blake, a married man dealing in his sole and separate property (Remainder Interest) Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC SWN Production Company, LLC	18.00%	139A/237 157A/540	
		Donna M. Blake, A/K/A Donna Mae Blake, A Widow Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC SWN Production Company, LLC	17.00%	128A/612 157A/540	
		Buster Terry Blake And Barbara A. Blake, his wife Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC SWN Production Company, LLC	18.00%	131A/116 157A/540	
		Paul J. Blake, A/K/A Paul Blake, A Widower (Life Estate Interest), Brent Paul Blake, A/K/A Brent P. Blake, a single man, Bruce Scott Blake, A/K/A Bruce S. Blake, a married man dealing in his sole and separate property And Kip Martin Blake, A/K/A Kip M. Blake, a married man dealing in his sole and separate property (Remainder Interest) Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC SWN Production Company, LLC	18.00%	139A/225 157A/540	
		Donna M. Blake, A/K/A Donna Mae Blake, A Widow Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC SWN Production Company, LLC	17.00%	128A/617 157A/540	
3	12-14-32.3	Buster Terry Blake And Barbara A. Blake, his wife Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC SWN Production Company, LLC	18.000%	131A/144 157A/540	0.0000%
		Paul J. Blake, A/K/A Paul Blake, A Widower (Life Estate Interest), Brent Paul Blake, A/K/A Brent P. Blake, a single man, Bruce Scott Blake, A/K/A Bruce S. Blake, a married man dealing in his sole and separate property And Kip Martin Blake, A/K/A Kip M. Blake, a married man dealing in his sole and separate property (Remainder Interest) Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC SWN Production Company, LLC	18.000%	139A/209 157A/540	
		Harold H. Blake And Donna M. Blake, his wife Haddad And Brooks, Inc.	Haddad And Brooks, Inc. Chesapeake Appalachia, LLC	12.50%	79A/446 104A/230	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
4	12-14-31	Blake Donna M A/K/A Donna Mae Blake A Widow Chesapeake Appalachia, LLC	Chesapeake Appalachia LLC SWN Production Company, LLC	17.000%	125A/960 157A/540	0.0000%
5	12-14-21.1	James H. Fogg, a married man dealing in his sole and separate property Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC SWN Production Company, LLC	12.50%	97A/995 157A/540	0.0000%
6	12-14-30	Blake Donna M A/K/A Donna Mae Blake A Widow Chesapeake Appalachia, LLC	Chesapeake Appalachia LLC SWN Production Company, LLC	17.00%	125A/953 157A/540	0.0000%
		Blake Violet A Widow Chesapeake Appalachia, LLC	Chesapeake Appalachia LLC SWN Production Company, LLC	18.00%	126A/954 157A/540	
		Blake Buster Terry And Barbara A Blake his wife Chesapeake Appalachia, LLC	Chesapeake Appalachia LLC SWN Production Company, LLC	18.00%	131A/139 157A/540	
		Paul J. Blake, A/K/A Paul Blake, A Widower (Life Estate Interest), Brent Paul Blake, A/K/A Brent P. Blake, a single man, Bruce Scott Blake, A/K/A Bruce S. Blake, a married man dealing in his sole and separate property And Kip Martin Blake, A/K/A Kip M. Blake, a married man dealing in his sole and separate property (Remainder Interest) Chesapeake Appalachia, LLC	Chesapeake Appalachia LLC SWN Production Company, LLC	18.00%	139A/243 157A/540	
		Blake Donna M A/K/A Donna Mae Blake A Widow Chesapeake Appalachia, LLC	Chesapeake Appalachia LLC SWN Production Company, LLC	17.00%	125A/948 157A/540	
		Blake Violet Widow Chesapeake Appalachia, LLC	Chesapeake Appalachia LLC SWN Production Company, LLC	18.00%	126A/950 157A/540	
		Blake Buster Terry And Barbara A Blake Chesapeake Appalachia, LLC	Chesapeake Appalachia LLC SWN Production Company, LLC	18.00%	131A/134 157A/540	
		Paul J. Blake, A/K/A Paul Blake, A Widower (Life Estate Interest), Brent Paul Blake, A/K/A Brent P. Blake, a single man, Bruce Scott Blake, A/K/A Bruce S. Blake, a married man dealing in his sole and separate property And Kip Martin Blake, A/K/A Kip M. Blake, a married man dealing in his sole and separate property (Remainder Interest) Chesapeake Appalachia, LLC	Chesapeake Appalachia LLC SWN Production Company, LLC	18.00%	138A/943 157A/540	
		Blake Donna M A/K/A Donna Mae Blake A Widow Chesapeake Appalachia, LLC	Chesapeake Appalachia LLC SWN Production Company, LLC	17.00%	125A/950 157A/540	
		Blake Buster Terry And Barbara A Blake his wife Chesapeake Appalachia, LLC	Chesapeake Appalachia LLC SWN Production Company, LLC	18.00%	131A/124 157A/540	

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
 Constance Taylor 3H
 Wetzel County, West Virginia

Tract #	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Interest Not Leased by SWN Production Company, LLC
		Paul J. Blake, A/K/A Paul Blake, A Widower (Life Estate Interest), Brent Paul Blake, A/K/A Brent P. Blake, a single man, Bruce Scott Blake, A/K/A Bruce S. Blake, a married man dealing in his sole and separate property And Kip Martin Blake, A/K/A Kip M. Blake, a married man dealing in his sole and separate property (Remainder Interest) Chesapeake Appalachia, LLC	Chesapeake Appalachia LLC	18.00%	139A/255	
		Blake Donna M A/K/A Donna Mae Blake A Widow Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Blake Buster Terry And Barbara A Blake his wife Chesapeake Appalachia, LLC	Chesapeake Appalachia LLC	17.00%	125A/965	
		Blake Buster Terry And Barbara A Blake his wife Chesapeake Exploration LLC	SWN Production Company, LLC	18.00%	157A/540	
		Blake Buster Terry And Barbara A Blake his wife Chesapeake Appalachia, LLC	Chesapeake Exploration LLC	18.00%	131A/129	
		Paul J. Blake, A/K/A Paul Blake, A Widower (Life Estate Interest), Brent Paul Blake, A/K/A Brent P. Blake, a single man, Bruce Scott Blake, A/K/A Bruce S. Blake, a married man dealing in his sole and separate property And Kip Martin Blake, A/K/A Kip M. Blake, a married man dealing in his sole and separate property (Remainder Interest) Chesapeake Appalachia, LLC	Chesapeake Appalachia LLC	18.00%	139A/249	
7	12-14-12.1	Shiben Estates, Inc Chesapeake Appalachia, LLC	SWN Production Company, LLC	20.00%	102A/66	0.0000%
		Opal Blake Haddad And Brooks, Inc.	SWN Production Company, LLC	12.50%	82A/697	
		Haddad And Brooks, Inc. Chesapeake Appalachia, LLC	Chesapeake Appalachia, L.L.C.		180A/910	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
8	12-14-10	Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC	15.00%	120A/900	0.0000%
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		165A/673	
		Albert Hohman And Mary Hohman Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC	12.50%	96A/393	
		Sheri Hohman Huggins Chesapeake Appalachia, LLC	SWN Production Company, LLC	12.50%	157A/540	
		Charles George And Margaret Ann Hunter Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC	12.50%	107A/932	
		Garnett L. Hohman Chesapeake Appalachia, LLC	SWN Production Company, LLC	12.50%	157A/540	
		Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC	12.50%	91A/594	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC	12.50%	91A/597	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
9	12-14-10.1	Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC	15.00%	120A/900	0.0000%
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		165A/673	
		Albert Hohman And Mary Hohman Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC	12.50%	96A/393	
		Sheri Hohman Huggins Chesapeake Appalachia, LLC	SWN Production Company, LLC	12.50%	157A/540	
		Charles George And Margaret Ann Hunter Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC	12.50%	107A/932	
		Garnett L. Hohman Chesapeake Appalachia, LLC	SWN Production Company, LLC	12.50%	157A/540	
		Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC	12.50%	91A/597	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
10	12-13-21	Anthony P. Shepherd and Debora L. Shepherd, his wife Thomas J. Shepherd and Lisa A. Shepherd, his wife	SWN Production Company, LLC	18.75%	237A/351	0.0000%
		Thomas J. Shepherd and Lisa A. Shepherd, his wife	SWN Production Company, LLC	18.75%	237A/837	0.0000%
11	12-13-17	Thomas J. Shepherd and Lisa A. Shepherd, his wife Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	18.75%	237A/837	0.0000%
		Thomas J. Shepherd and Lisa A. Shepherd, his wife	SWN Production Company, LLC	12.50%	157A/546	0.0000%
12	12-13-18	Thomas J. Shepherd and Lisa A. Shepherd, his wife Chesapeake Appalachia, LLC	SWN Production Company, LLC	18.75%	104A/596	0.0000%
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC	15.00%	120A/900	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		165A/673	
		Thomas J. Shepherd and Lisa A. Shepherd, his wife	SWN Production Company, LLC	18.75%	237A/837	
13	12-8-55	Thurman L. Goddard And Bessie Goddard, husband and wife, And Nicholas Goddard, Widower W.M. Earnest And A.G. Isminger Estate of Samuel J. Brendel, deceased, by its Administrator, Frank A. B. Brendel, and Administratrix, Lillian B. Somers Edison Isminger and Mabel Isminger, husband and wife A. G. Isminger and Ocie Isminger, husband and wife Edwin R. Hohman Thomas S. Riggs, III Scott E. Robinson Joseph Hohman and Debra Hohman Mary L. Hohman, trustee, the Hohman Revocable Living Trust dated August 14, 1994 Thomas Michael Wallace W. Martin Riggs	W.M. Earnest And A.G. Isminger S. J. Brendel A. G. Isminger and Edison Isminger A. G. Isminger Edwin R. Hohman and Lozella D. Hohman, husband and wife; and Albert L. Hohman and Mary L. Hohman, husband and wife Albert L. Hohman and Mary L. Hohman, husband and wife SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC	12.50%	35A/24 35A/260 48A/373 52A/461 55A/83 84A/358 107A/758 207A/208 240A/68 240A/72 240A/476 240A/471	0.0000%
14	12-8-35	Evelyn Maxine Gilbert, a widow Chesapeake Appalachia, LLC Roxie G. Simmons by her attorney-in-fact, Lana M. Giles Chesapeake Appalachia, LLC Marlene J. Postlethwait a/k/a Marlene Postlethwait and Austin Postlethwait, her husband Chesapeake Appalachia, LLC Mitzelou Cecil and Floyd Cecil, her husband Chesapeake Appalachia, LLC Doris Lee Haught and Larry Haught, her husband Chesapeake Appalachia, LLC Sandy Cline, a widow Chesapeake Appalachia, LLC Janice K. O'Neil a/k/a Janice D'Neil a/k/a Janice K. Johnson and Gary Johnson, her husband Chesapeake Appalachia, LLC Shirley Ebert a/k/a Shirley K. Ebert and William Norbert Ebert, her husband	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	94A/910 157A/540 94A/913 157A/540 95A/176 157A/540 95A/179 157A/540 95A/182 157A/540 95A/185 157A/540 95A/188 157A/540 95A/191	0.0000%

EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-5A1, by SWN Production Company, LLC, Operator
 Constance Taylor 3H
 Wetzel County, West Virginia

Tract #	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Interest Not Leased by SWN Production Company, LLC
		Chesapeake Appalachia, LLC Glen O. Gilbert a/k/a Glen Gilbert and Bonnie Gilbert, his wife	SWN Production Company, LLC Chesapeake Appalachia, L.L.C.	12.50%	157A/540 95A/194	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Albert and Mary Hohman, his wife and Joseph Hohman and Debra Hohman, his wife	Chesapeake Appalachia, L.L.C.	18.75%	96A/802 120A/228	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Albert and Mary Hohman, his wife and Joseph Hohman and Debra Hohman, his wife	Chesapeake Appalachia, L.L.C.	18.75%	96A/802 120A/228	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Betty Lou Hardman and Floyd R. Hardman, her husband	Chesapeake Appalachia, L.L.C.	12.50%	100A/358	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Vickie McClintock, a widow	Chesapeake Appalachia, L.L.C.	12.50%	100A/367	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Cari J. Gilbert and Lana Gilbert, his wife	Chesapeake Appalachia, L.L.C.	12.50%	100A/370	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Judith R. White and Frankie D. White, her husband	Chesapeake Appalachia, L.L.C.	12.50%	100A/373	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Terry W. Gilbert, a single man	Chesapeake Appalachia, L.L.C.	12.50%	100A/376	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Richard D. Blake and Eileen Blake, his wife	Chesapeake Appalachia, L.L.C.	12.50%	100A/678	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Albert Roy Blake, Jr. a/k/a Albert R. Blake, Jr. and Brenda S. Blake, his wife	Chesapeake Appalachia, L.L.C.	12.50%	100A/843	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Donald Robert Blake a/k/a Donald R. Blake and Teresa Blake, his wife	Chesapeake Appalachia, L.L.C.	12.50%	101A/1	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Bonnie S. Barrett, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	108A/829	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Margaret F. Eakins, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	108A/832	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Artridge M. Blake, a single woman	Chesapeake Appalachia, L.L.C.	12.50%	108A/835	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Robert J. Blake, a single man	Chesapeake Appalachia, L.L.C.	12.50%	108A/838	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Joseph L. Blake, a single man	Chesapeake Appalachia, L.L.C.	12.50%	108A/841	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		167A/1	
		Harold J. Blake, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	109A/45	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Betty L. Parker, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	109A/48	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Josephine N. Campbell	Chesapeake Appalachia, L.L.C.	18.75%	113A/451	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Patricia B. Daleny a/k/a Patricia Daleny, a widow, by her attorney-in-fact, Kenneth Lee Blake, Jr.	Chesapeake Appalachia, L.L.C.	12.50%	115A/383	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Christina Davis, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	17.00%	131A/323	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Yvonne Keller, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	17.00%	141A/328	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Michael Lee Stansberry	Chesapeake Appalachia, L.L.C.	17.00%	132A/530	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Amber Scotie f/k/a Amber Sue Stansberry, dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	17.00%	133A/245	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Steven Stansberry, a single man	Chesapeake Appalachia, L.L.C.	17.00%	133A/250	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Dolores Stansberry a/k/a Dolores A. Stansberry, a widow	Chesapeake Appalachia, L.L.C.	17.00%	133A/620	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Dolores Stansberry a/k/a Dolores A. Stansberry, a widow	Chesapeake Appalachia, L.L.C.	17.00%	133A/620	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Dolores Stansberry a/k/a Dolores A. Stansberry, a widow	Chesapeake Appalachia, L.L.C.	17.00%	133A/620	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Dolores Stansberry a/k/a Dolores A. Stansberry, a widow	Chesapeake Appalachia, L.L.C.	17.00%	133A/620	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Tamara Lynn Stansberry	Chesapeake Appalachia, L.L.C.	17.00%	134A/291	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Edwin R. Hohman, a/k/a Edward R. Hohman, a widower, by his Attorney-In-Fact, Joseph A. Hohman	Chesapeake Appalachia, L.L.C.	17.00%	151A/134	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Kenneth L. Blake, Jr. a single man	Chesapeake Appalachia, L.L.C.	12.50%	108A/828	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		165A/673	
		Everett Simmons, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	18.00%	166A/523	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
15	12-15-9	Clyde V. Stillion and Usa K. Stillion, husband and wife	TH Exploration, LLC	18.00%	210A/825	0.0000%
		TH Exploration, LLC	SWN Production Company, LLC		240A/485	
16	12-8-34	Clyde V. Stillion and Usa K. Stillion, husband and wife	TH Exploration, LLC	18.00%	210A/825	0.0000%
		TH Exploration, LLC	SWN Production Company, LLC		240A/485	

* At least 7 mineral 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.



4710303353

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

May 29, 2020

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

RE: SWN's proposed New Well: Constance Taylor WTZ 1H & Constance Taylor WTZ 3H in Wetzel County, West Virginia, Drilling under Co. Rd. 1/11, Proctor Creek Road, Co. Rd. 1/24, and Brock 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 Co. Rd. 1/11, Proctor Creek Road, Co. Rd. 1/24, and Brock 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
Staff Landman
SWN Production Company, LLC

The Right People doing the Right Things,
wisely investing the cash flow from our
underlying Assets, will create Value+[®]

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

Date of Notice Certification: 11/15/20

API No. 47- 103 - _____
Operator's Well No. Constance Taylor WTZ 3H
Well Pad Name: Constance Taylor WTZ

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>527518.75</u>
County: <u>103-Wetzel</u>		Northing: <u>4389473.79</u>
District: <u>Proctor</u>	Public Road Access: <u>Brock Ridge Road</u>	
Quadrangle: <u>Wileyville</u>	Generally used farm name: <u>Constance Taylor WTZ</u>	
Watershed: <u>Upper Ohio South</u>		

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.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY		OOG OFFICE USE ONLY
<input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED		<input type="checkbox"/> RECEIVED/ NOT REQUIRED
<input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED		<input type="checkbox"/> RECEIVED
<input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)		<input type="checkbox"/> RECEIVED/ NOT REQUIRED
<input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION		<input type="checkbox"/> RECEIVED
<input checked="" type="checkbox"/> 5. PUBLIC NOTICE		<input type="checkbox"/> RECEIVED
<input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		<input type="checkbox"/> 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.

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

Applicant: West Virginia Energy Services, Inc.
Operator's Well No: 0000000000
Well No: 0000000000

Date of Notice Certification: 11/21/2011

Notice has been given to the person in the position in West Virginia Code § 22-6A-11(b) the Operator has provided the required notice with the following information below for the use of land as follows:

County:	Putnam	Well No:	0000000000
Location:	Putnam Road, Putnam	Operator's Well No:	0000000000
Geographic Location:	(Locality used for notice)	Well No:	0000000000
Well No:	0000000000	Operator's Well No:	0000000000

Pursuant to West Virginia Code § 22-6A-11(b), every point application filed under this section shall be on a form as may be prescribed by the associated shall be certified and shall contain the following information: (1) A certification from the operator that (a) it has provided the owner of the surface described in subsection (1), (2) and (3), subsection (b), section ten of this article, the information required by subsection (b) and (c), section eleven of this article; (b) that the person was notified in a timely manner of giving the surface owner notice of entry to any property pursuant to subsection (a), section ten of this article six or (iii) the notice requirements of subsection (b), section eleven of this article was waived in writing by the surface owner and pursuant to West Virginia Code § 22-6A-11(b), the applicant shall certify to the satisfaction of the person that the notice requirements of section ten of this article have been completed by the applicant.

PLEASE CHECK ALL THAT APPLY	1. NOTICE OF SEISMIC ACTIVITY or SEISMIC ACTIVITY WAS CONDUCTED	<input type="checkbox"/>
	2. NOTICE OF ENTRY FOR PLAT SURVEY or NO PLAT SURVEY WAS CONDUCTED	<input type="checkbox"/>
	3. NOTICE OF INTENT TO DRILL or NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	<input type="checkbox"/>
	4. WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	<input type="checkbox"/>
	5. NOTICE OF PLANNED OPERATION	<input type="checkbox"/>
	6. PUBLIC NOTICE	<input type="checkbox"/>
	7. NOTICE OF APPLICATION	<input type="checkbox"/>

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the person in the position in West Virginia Code § 22-6A-11(b) the Operator has provided the required notice with the following information below for the use of land as follows: The Operator shall attach a copy of the Class II Well Application and the associated information of the associated application. The attached Notice Forms and Certifications of Notice shall serve as proof that the required notice has been provided as required under West Virginia Code § 22-6A-11(b). The Operator shall certify to the satisfaction of the person that the notice requirements of section ten of this article have been completed by the applicant.

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:	<u>SWN Production Co., LLC</u>	Address:	<u>1300 Fort Pierpont Dr., Suite 201</u>
By:	<u>Brittany Woody</u>		<u>Morgantown, WV 26508</u>
Its:	<u>Senior Regulatory Analyst</u>	Facsimile:	<u>304-884-1690</u>
Telephone:	<u>304-884-1610</u>	Email:	<u>Brittany_Woody@swn.com</u>



Subscribed and sworn before me this 1st day of May, 2020
Jessica L. Vangilder Notary Public
 My Commission Expires 7-20-20

Oil and Gas Privacy Notice:

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

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

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 6/15/20 Date Permit Application Filed: 6/15/20

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)
 Name: Constance Taylor
 Address: 807 Johnson Street
New Martinsville, WV 26155
 Name: _____
 Address: _____

COAL OWNER OR LESSEE
 Name: Consolidation Coal Company Attn: Casey Saunders
 Address: 1000 Consol Energy Drive
Canonsburg, PA 15317
 COAL OPERATOR
 Name: _____
 Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)
 Name: _____
 Address: _____
 Name: _____
 Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
 Name: See Attachment 13A
 Address: _____

SURFACE OWNER(s) (Impoundments or Pits)
 Name: _____
 Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
 Name: _____
 Address: _____

*Please attach additional forms if necessary

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

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 6/15/20 Date Permit Application Filed: 6/15/20

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)

Name: _____

Address: _____

Name: _____

Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: _____

Address: _____

Name: _____

Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____

Address: _____

COAL OWNER OR LESSEE

Name: Leonard Dunham

Address: 419 Edgewood Ave

Moundsville, WV 26041

COAL OPERATOR

Name: _____

Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: _____

Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____

Address: _____

*Please attach additional forms if necessary

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

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice 6/15/20 Date Permit Application Filed: 6/15/20

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

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Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: _____
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: Joany Sauro
Address: 232 Rainbow Dr
Livingston, TX 77399

COAL OPERATOR

Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: _____
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
Address: _____

*Please attach additional forms if necessary

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

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 6/15/20 Date Permit Application Filed: 6/15/20

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: _____
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: Donna Blake
Address: 418 Gilbert Avenue
Follansbee, WV 26037

COAL OPERATOR

Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: _____
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
Address: _____

*Please attach additional forms if necessary

ATTACHMENT 13

OWNERNAME	ADDRESS	CITY STATE ZIP	PARCELID	WATER_SOURCE
BECKER ERICK D & PHYLLIS	1615 CENTERTON RD	PITTSBORO, NJ 08318	12 18000700000000	2



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

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 6/15/20 **Date Permit Application Filed:** 6/15/20
Notice of:

- PERMIT FOR ANY WELL WORK CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE REGISTERED MAIL METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: _____
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: Terry Dunham
Address: 404 University Ave
Elyria, OH 44305

COAL OPERATOR

Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: _____
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
Address: _____

*Please attach additional forms if necessary

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

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 6/15/20 **Date Permit Application Filed:** 6/15/20

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: _____
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: Janie Currier
Address: 819 Stanford Ave
Elyria, OH 44035

COAL OPERATOR

Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: _____
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
Address: _____

*Please attach additional forms if necessary

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

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 6/15/20 **Date Permit Application Filed:** 6/15/20

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
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Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)
Name: _____
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: _____
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)
Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: Charles Dunham III
Address: 1012 Shore Line Dr
La Grange, KY 40031

COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: _____
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

*Please attach additional forms if necessary

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

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

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

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

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

Written Comment:

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

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

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

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

Time Limits and Methods for Filing Comments

The two copies must be filed on or before the date the operator files its application. You have 15 DAYS after the filing date to file your comments. Comments must be filed in person or mailed in the mail by the filing date. You may call the Chief's office in the state of the state. If you have a question, you may call the Chief's office in the state of the state. If you have a question, you may call the Chief's office in the state of the state. If you have a question, you may call the Chief's office in the state of the state.

Comments should be filed in person or mailed in the mail by the filing date. You may call the Chief's office in the state of the state. If you have a question, you may call the Chief's office in the state of the state. If you have a question, you may call the Chief's office in the state of the state. If you have a question, you may call the Chief's office in the state of the state.

Comments

Your comments should 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.

Comments will be filed on the web site. Comments will be filed on the web site. Comments will be filed on the web site. Comments will be filed on the web site. Comments will be filed on the web site.

Operator's Response

The operator has the power to deny or condition a well work permit. Pursuant to WAC 17-02-010, the permit may not be issued or be conditional, including conditions with respect to the location of the well and access roads, prior to issuance if the operator determines that:

- (1) The proposed well work permit contains a hazard to the safety of persons;
- (2) The plan for well construction and reclamation contains a non-compliance or violation;
- (3) The plan would cause a violation of applicable laws or regulations;
- (4) The proposed well work permit would prevent the well owner or operator from

A permit may also be denied under WAC 17-02-010 if the operator determines that the applicant has committed a violation of a regulatory provision for a treatment 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 self-review of the violation within the time provided by the secretary pursuant to the provisions of subsection (1) and (2). However, the secretary may, at its discretion, waive the time provided by the secretary pursuant to the provisions of subsection (1) and (2).

Pursuant to WAC 17-02-010, any person entitled to submit written comments to the secretary pursuant to subsection (1) shall also be entitled to receive a copy of the secretary's decision. The permit as issued on a copy of the order modifying or denying the permit. The permit as issued on a copy of the order modifying or denying the permit. The permit as issued on a copy of the order modifying or denying the permit.

WW-6A
(8-13)

API NO. 47- 103 -
OPERATOR WELL NO. Constance Taylor WTZ 3H
Well Pad Name: Constance Taylor WTZ

Notice is hereby given by:

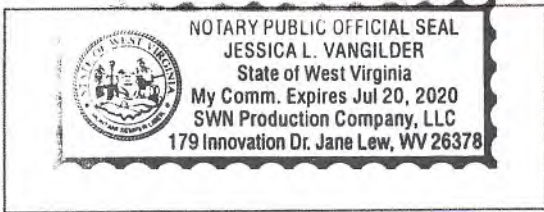
Well Operator: SWN Production Co., LLC
Telephone: 304-884-1610
Email: Brittany_Woody@swn.com

Brittany Woody

Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Facsimile: 304-884-1690

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



Subscribed and sworn before me this 1st day of May, 2020

Jessica L. Vangilder Notary Public

My Commission Expires 7-20-20

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

Notice Time Requirement: Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry

Date of Notice: 4/15/2020 **Date of Planned Entry:** 4/22/2020

Delivery method pursuant to West Virginia Code § 22-6A-10a

- PERSONAL SERVICE
 REGISTERED MAIL
 METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER(s)

Name: Constance Taylor

Address: 807 Johnson Street
New Martinsville, WV 26155

Name: _____

Address: _____

Name: _____

Address: _____

COAL OWNER OR LESSEE

Name: Consolidation Coal Company Attn: Casey Saunders

Address: 1000 Consol Energy Dr
Canonsburg, PA 15317

MINERAL OWNER(s)

Name: Tammy Kernetz

Address: 3908 Riverview Drive
Wausau, WI 54403

*please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>39.65465, -80.679341</u>
County: <u>Wetzel</u>	Public Road Access: <u>Brock Ridge Road</u>
District: <u>Proctor</u>	Watershed: <u>Little Fishing Creek</u>
Quadrangle: <u>Wileyville</u>	Generally used farm name: <u>Constance Taylor</u>

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production 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). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: <u>SWN PRODUCTION COMPANY, LLC</u>	Address: <u>1300 Fort Pierpont Dr., Suite 201</u>
Telephone: <u>304-884-1610</u>	<u>Morgantown, WV 26508</u>
Email: <u>Brittany_Woody@swn.com</u>	Facsimile: <u>304-884-1690</u>

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

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry

Date of Notice: 4/15/2020 **Date of Planned Entry:** 4/22/2020

Delivery method pursuant to West Virginia Code § 22-6A-10a

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- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

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Notice is hereby provided to:

SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: Janie Currier
Address: 819 Stanford Ave
Elyria, OH 44035

MINERAL OWNER(s)

Name: Debra Keessee
Address: 4544 Columbia Street # 1211
Virginia Beach, VA 23462

*please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>39.65465, -80.679341</u>
County: <u>Wetzel</u>	Public Road Access: <u>Brock Ridge Road</u>
District: <u>Proctor</u>	Watershed: <u>Little Fishing Creek</u>
Quadrangle: <u>Wileyville</u>	Generally used farm name: <u>Constance Taylor</u>

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production 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). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: <u>SWN PRODUCTION COMPANY, LLC</u>	Address: <u>1300 Fort Pierpont Dr., Suite 201</u>
Telephone: <u>304-884-1610</u>	<u>Morgantown, WV 26508</u>
Email: <u>Brittany_Woody@swn.com</u>	Facsimile: <u>304-884-1690</u>

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

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry

Date of Notice: 4/15/20 **Date of Planned Entry:** 4/22/20

Delivery method pursuant to West Virginia Code § 22-6A-10a

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- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

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Notice is hereby provided to:

SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: Terry Dunham
Address: 404 University Ave
Elyria, OH 44305

MINERAL OWNER(s)

Name: MM- Marcellus- HBP 1, LP
Address: PO Box 10886
Midland, TX 79702

*please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: West Virginia
County: Wetzel
District: Proctor
Quadrangle: Wileyville

Approx. Latitude & Longitude: 39.65465, -80.679341
Public Road Access: Brock Ridge Road
Watershed: Little Fishing Creek
Generally used farm name: Constance Taylor

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production 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). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

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Telephone: 304-884-1610
Email: Brittany_Woody@swn.com

Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Facsimile: 304-884-1690

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

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Notice is hereby provided to:

SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: Donna Blake
Address: 418 Gilbert Avenue
Follansbee, WV 26037

MINERAL OWNER(s)

Name: Donna Blake
Address: 418 Gilbert Ave
Follansbee, WV 26037

*please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

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County: Wetzel
District: Proctor
Quadrangle: Wileyville

Approx. Latitude & Longitude: 39.65465, -80.679341
Public Road Access: Brock Ridge Road
Watershed: Little Fishing Creek
Generally used farm name: Constance Taylor

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 REGISTERED MAIL
 METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: Joany Sauro
Address: 232 Rainbow Dr
Livingstone, TX 77399

MINERAL OWNER(s)

Name: Joany Sauro, A/K/A Joan Sauro
Address: 232 Rainbow Dr
Livingstone, TX 77399

*please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: West Virginia
County: Wetzel
District: Proctor
Quadrangle: Wileyville

Approx. Latitude & Longitude: 39.65465, -80.679341
Public Road Access: Brock Ridge Road
Watershed: Little Fishing Creek
Generally used farm name: Constance Taylor

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production 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). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: SWN PRODUCTION COMPANY, 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.

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

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry

Date of Notice: 4/15/2020 **Date of Planned Entry:** 4/22/2020

Delivery method pursuant to West Virginia Code § 22-6A-10a

- PERSONAL SERVICE
 REGISTERED MAIL
 METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: Charles Dunham III
Address: 1012 Shore Line Drive
La Grange, KY 40031

MINERAL OWNER(s)

Name: Robert Dunham, Jr.
Address: 331 Glen Dale Heights Rd
Glen Dale, WV 26038

*please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>39.65465, -80.679341</u>
County: <u>Wetzel</u>	Public Road Access: <u>Brock Ridge Road</u>
District: <u>Proctor</u>	Watershed: <u>Little Fishing Creek</u>
Quadrangle: <u>Wileyville</u>	Generally used farm name: <u>Constance Taylor</u>

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production 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). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: SWN PRODUCTION COMPANY, LLC
Telephone: 304-884-1610
Email: Brittany_Woody@swn.com

Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Facsimile: 304-884-1690

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

Notice Time Requirement: Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry

Date of Notice: 4/15/2020 **Date of Planned Entry:** 4/22/2020

Delivery method pursuant to West Virginia Code § 22-6A-10a

- PERSONAL SERVICE
 REGISTERED MAIL
 METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

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Notice is hereby provided to:

SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: Leonard Dunham
Address: 419 Edgewood Ave
Moundsville, WV 26041

MINERAL OWNER(s)

Name: _____
Address: _____

*please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: West Virginia
County: Wetzel
District: Proctor
Quadrangle: Wileyville

Approx. Latitude & Longitude: 39.65465, -80.679341
Public Road Access: Brock Ridge Road
Watershed: Little Fishing Creek
Generally used farm name: Constance Taylor

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production 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). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: SWN PRODUCTION COMPANY, LLC
Telephone: 304-884-1610
Email: Brittany_Woody@swn.com

Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Facsimile: 304-884-1690

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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: Notice shall be provided at least **TEN (10)** days prior to filing a permit application.
Date of Notice: 05/01/2020 **Date Permit Application Filed:** 4/15/20

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

- HAND DELIVERY CERTIFIED MAIL
RETURN RECEIPT REQUESTED

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

Notice is hereby provided to the SURFACE OWNER(s):

Name: Constance A. Taylor Name: _____
Address: 807 Johnson St. Address: _____
New Martinsville, WV 26155

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: West Virginia UTM NAD 83 Easting: 527,518.75
County: Wetzel Northing: 4,389,473.79
District: Proctor Public Road Access: Brock Ridge Road
Quadrangle: Wileyville Generally used farm name: Constance Taylor
Watershed: Upper Ohio South

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: SWN Production Company, LLC Authorized Representative: Steve Teel
Address: 1300 Fort Pierpont Dr., Suite 201 Address: 1300 Fort Pierpont Dr., suite 201
Morgantown, WV 26508 Morgantown, WV 26508
Telephone: 832-540-1136 Telephone: 832-540-1136
Email: Steve_Teel@swn.com Email: Steve_Teel@swn.com
Facsimile: _____ Facsimile: _____

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways1900 Kanawha Boulevard East • Building Five • Room 110
Charleston, West Virginia 25305-0430 • (304) 558-3505Byrd E. White, III
Secretary of Transportation/
Commissioner of Highways

April 28, 2020

Jimmy Wriston, P. E.
Deputy Secretary/
Deputy CommissionerJames A. Martin, Chief
Office of Oil and Gas
Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304

Subject: DOH Permit for the Constance Taylor Pad, Wetzel County

Constance Taylor WTZ 3H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2016-0385 which has been issued to Southwestern Energy for access to the State Road for a well site located off Wetzel County Route 15/1 SLS.

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

Very Truly Yours,

A handwritten signature in blue ink that reads "Gary K. Clayton".

Gary K. Clayton, P.E.
Regional Maintenance Engineer
Central Office O&G CoordinatorCc: Brittany Woody
Southwestern Energy
CH, OM, D-6
File

Attachment VI Frac Additives

Product Name	Product Use	Chemical Name	CAS Number
AI-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
AP ONE (U.S. Well Services)	Breaker	Acetophenone, thiourea, formaldehyde polymer	68527-49-1
		Ammonium persulfate	7727-54-0
Bactron K-139 (Champion Technologies)	Biocide	Glutaraldehyde	111-30-8
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
		Ethanol	64-17-5
Bactron 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
EC6486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate	Proprietary
		Ethylene Glycol	107-21-1
EC6734A (Champion Technologies)	Biocide	Hydrogen Peroxide	7722-84-1
		Acetic Acid	64-19-7
		Peroxyacetic Acid	79-21-0
Econo-CI200 (SWN Well Services)	Corrosion Inhibitor	Methanol	67-56-1
		Oxyalkylated fatty acid	68951-67-7
		Fatty acids	61790-12-3
		Modified thiourea polymer	68527-49-1
		Water	7732-18-5
		Hydrochloric acid	7647-01-0
		Potassium acetate	127-08-2
		Formaldehyde	50-00-0
Ecopol-FEAC (SWN Well Services)	Iron Control	Acetic Acid	64-19-7
		Citric Acid	77-92-9
		Water	7732-18-5
FDP-S1176-15 (Halliburton)	Friction Reducer	Polyacrylate	Proprietary
		Hydrotreated light petroleum distillate	64742-47-8
FLOJET DR900 LPP (SWN Well Services)	Friction Reducer	Distillates (petroleum) hydrotreated light	64674-47-8
		Ethylene Glycol	107-21-1
		Alcohols, C12-16, Exoxylated propoxylated	68213-24-1
		Fatty Alcohols ethoxylated	Proprietary
		Water	7732-18-5
FLOJET DRP 1130X (SWN Well Services)	Friction Reducer	Proprietary	Proprietary
FR-76 (Halliburton)	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
		Inorganic Salt	Proprietary
GYPTRON T-390 (Champion Technologies)	Scale Inhibitor	Methanol	67-56-1
		Nonylphenol Ethoxylate	Proprietary
HAI-150E (Halliburton)	Corrosion Inhibitor	No hazardous substance	N/A
HCL (SWN Well Services)	Hydrochloric Acid	Hydrochloric Acid	7647-01-0
		Water	7732-18-5
LP-65 MC (Halliburton)	Scale Inhibitor	Organic phosphonate	Proprietary
		Ammonium Chloride	12125-02-9
OPTI-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
		Alcohols, C12-16, Exoxylated	68551-12-2
		Oleic Acid Diethanolamide	93-83-4
		Ammonium Chloride	12125-02-9
Plexslick 953	Friction Reducer	Petroleum Distillate	64742-47-8
		Sodium Chloride	7647-14-5
		Ammonium Chloride	12125-02-9
		N,N-bis (2-hydroxyethyl) oleamide	93-83-4
Plexslick 957	Friction Reducer	Petroleum Distillate	64742-47-8
		Ammonium Chloride	12125-02-9
		Oleic Acid Diethanolamide	93-83-4
		Alcohols, C12-16, Exoxylated	68551-12-2
		Water	7732-15-5
WFRA-2000 (U.S. Well Services)	Anionic Friction Reducer	Hydrotreated light distillate (petroleum)	64742-47-8
		Propenoic acid, polymer with propenamide	9003-06-9
Plexaid 655 NM	Scale Inhibitor	Diethylenetriamine penta (methylene phosphonic acid)	15827-30-8
Plexslick 922	no data available	Copolymer of 2-propenamide	69418-26-4
		Distillates (petroleum), hydrotreated light	64742-47-8
		Ammonium chloride ((NH4)Cl)	12125-02-9
		Oleic Acid Diethanolamide	93-83-4
Tolcide P550A	Biocidal product	Tetrakis (hydroxymethyl) phosphonium sulphate	55566-30-8
		Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups	397256-50-7
LD-2950	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
		Ethoxylated alcohol	Proprietary
Legend LD-7750W	Scale Control	Poly (oxy-1,2-ethanediyl) alpha.-tridecyl-.omega.-hydroxy-, branched	69011-36-5
		Methanol	67-56-1
		Phosphonic Acid Salt	Proprietary
MC MX 8-4743	Specialty Product	Sodium Nitrate	7631-99-4



CALL BEFORE YOU DIG! Dial 811 or 800.245.4848
Miss Utility of West Virginia

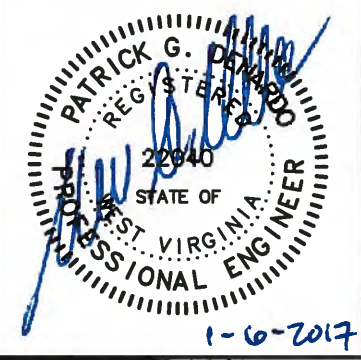
AT LEAST 48 HOURS, BUT NOT MORE THAN 10 WORKING DAYS (EXCLUDING WEEKENDS AND HOLIDAYS), PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THESE ACTIVITIES SHALL CONTACT MISS UTILITY OF WEST VIRGINIA AT 811 OR 1-800-245-4848.

AS-BUILT SITE PLAN

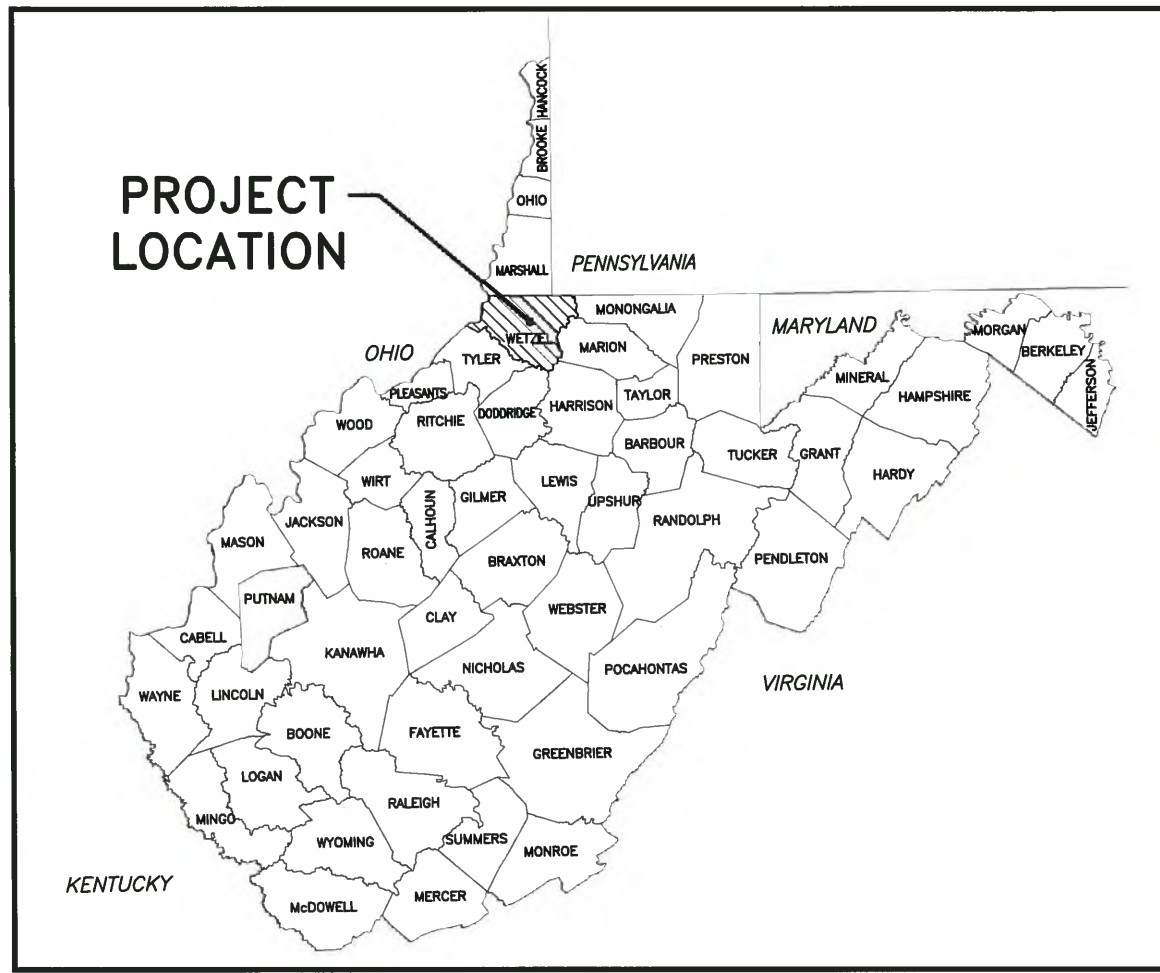
FOR

CONSTANCE TAYLOR WTZ PAD

PROCTOR DISTRICT, WETZEL COUNTY, WV

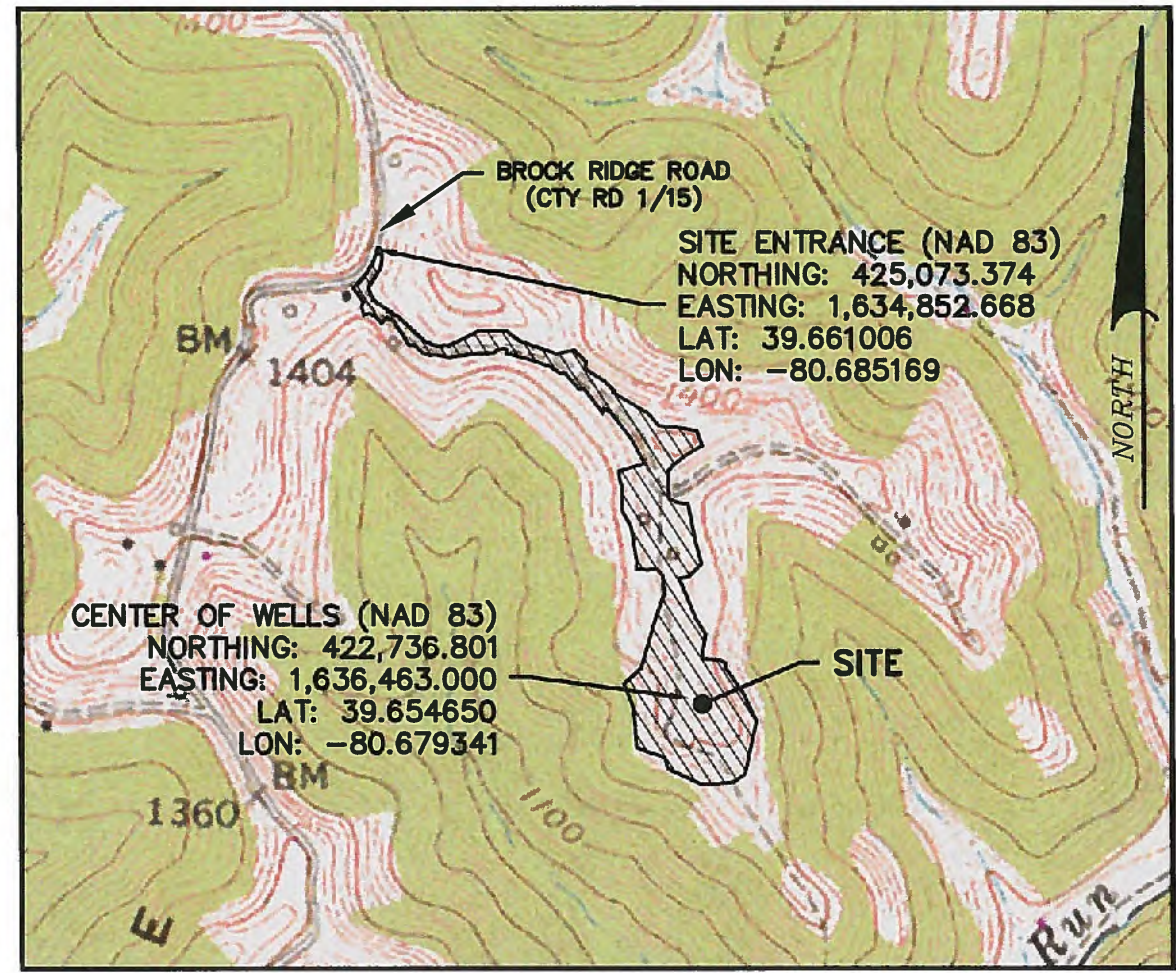


DRAWN BY: JMS
DATE: 12/08/2016
SCALE: AS SHOWN
DWG. NO. 087569006



COUNTY MAP

N.T.S.



LOCATION MAP

SCALE - 1"=1000'

LIST OF DRAWINGS

- TS1.1COVER SHEET
- EP2.1EVACUATION ROUTE/PREVAILING WINDS
- EP2.2EVACUATION ROUTE/PREVAILING WINDS
- AS3.1AS-BUILT SITE PLAN
- AS3.2AS-BUILT SITE PLAN
- AS3.3AS-BUILT SITE PLAN
- CRA4.1ACCESS ROAD PROFILES
- CRA4.2PAD CROSS SECTIONS
- MRP5.1RECLAMATION PLAN
- MRP5.2RECLAMATION PLAN
- MRP5.3RECLAMATION PLAN
- MRD6.1DETAILS
- MRD6.2DETAILS
- MRD6.3DETAILS

SITE DATA

TOTAL DISTURBED AREA: 18.72 ACRES
ROAD DISTURBED AREA: 9.73 ACRES
PAD DISTURBED ACRES: 8.99 ACRES
ACCESS ROAD LENGTH: 3,250'
ACCESS ROAD AVERAGE WIDTH: VARIES
WELL PAD ELEVATION: 1430.20

WELL API NUMBERS

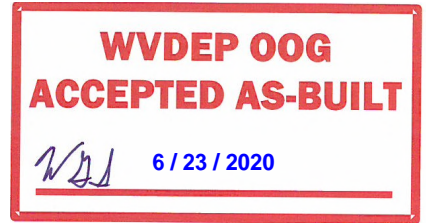
WELL NUMBER	API NUMBER	CELLAR DIAMETER	CELLAR DEPTH	CELLAR MATERIAL
5H	103-03149	8 FT	8 FT	CMP
8H	103-03150	8 FT	8 FT	CMP



Southwestern Energy®

OPERATOR

SWN PRODUCTION CO., LLC
P.O. BOX 1300
JANE LEW, WV 26378
(832) 796-1610



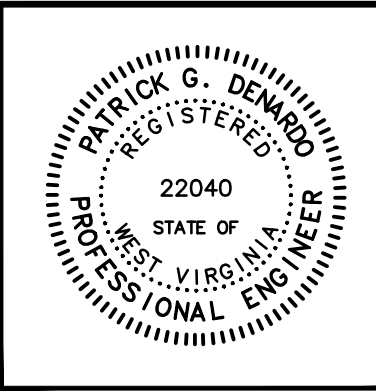
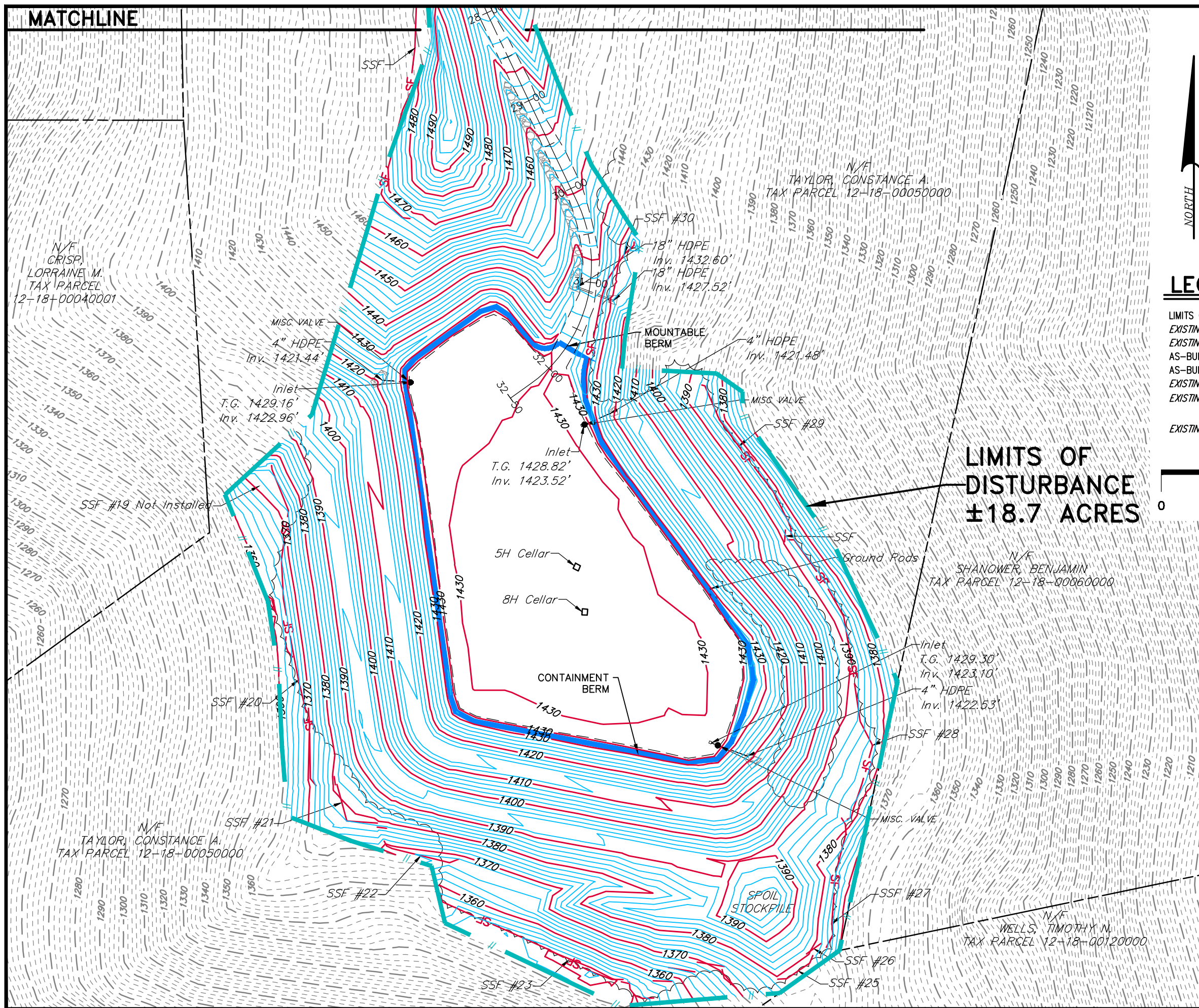
COVER SHEET FOR

CONSTANCE TAYLOR WTZ PAD
PROCTOR DISTRICT WETZEL COUNTY, WV



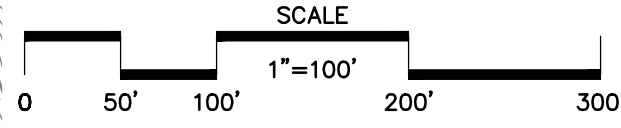
RETIW Associates, Inc.
One Robinson Plaza, 6600 Steubenville Pike, Suite 200,
Pittsburgh, PA 15205
Phone (412) 446-1728 • Fax (412) 446-1733
Engineers • Planners • Surveyors • Landscape Architects
Environmental Consultants

MATCHLINE



LEGEND

- LIMITS OF DISTURBANCE
- EXISTING CHAIN-LINK FENCE
- EXISTING CONTOUR LINE
- AS-BUILT MAJOR CONTOUR LINE
- AS-BUILT MINOR CONTOUR LINE
- EXISTING WELL HEAD
- EXISTING TREELINE
- EXISTING RIPRAP



LIMITS OF DISTURBANCE ±18.7 ACRES

**WVDEP OOG
ACCEPTED AS-BUILT**

WJD 6/23/2020

DRAWN BY: JMS
 DATE: 12/08/2016
 SCALE: 1"=100'
 DWG. NO. 087569006

RETTEW
 RETTEW Associates, Inc.
 One Robinson Plaza, 6600 Steubenville Pike, Suite 200,
 Pittsburgh, PA 15205
 Phone (412) 446-1728 • Fax (412) 446-1733
 Engineers • Planners • Surveyors • Landscape Architects
 Environmental Consultants

AS-BUILT SITE PLAN
 FOR
CONSTANCE TAYLOR WTZ PAD
 PROCTOR DISTRICT WETZEL COUNTY, WV

AS3.3