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west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Tuesday, February 16, 2021  
WELL WORK PERMIT  
Horizontal 6A / New Drill

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

Re: Permit approval for JOHN GOOD JR BRK 401H  
47-009-00327-00-00

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

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

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin  
Chief

Operator's Well Number: JOHN GOOD JR BRK 401H  
Farm Name: JOHN PRATHER GOOD JR IP#  
U.S. WELL NUMBER: 47-009-00327-00-00  
Horizontal 6A New Drill  
Date Issued: 2/16/2021

# 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

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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](mailto: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 009- Brooke 3-Buffalo 247- Bethany 620  
Operator ID County District Quadrangle

2) Operator's Well Number: John Good Jr. BRK 401H Well Pad Name: John Good Jr. BRK

3) Farm Name/Surface Owner: John Prather Good Jr. Irrevocable Trust Public Road Access: McAdoo Ridge Road

4) Elevation, current ground: 1154' Elevation, proposed post-construction: 1154'

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

(b) If Gas Shallow  Deep   
Horizontal

6) Existing Pad: Yes or No Yes

*C. H. 1.11.21*

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- 5853', Target Base TVD- 5904', Anticipated Thickness- 51', Associated Pressure- 3838

8) Proposed Total Vertical Depth: 5888'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 24770'

11) Proposed Horizontal Leg Length: 18047.28'

12) Approximate Fresh Water Strata Depths: 326' ✓

13) Method to Determine Fresh Water Depths: Logs on pad, John Good Jr. BRK 5H API 47-009-00138 ✓WS

14) Approximate Saltwater Depths: 448' Salinity Profile Analysis ✓

15) Approximate Coal Seam Depths: 308' ✓

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: \_\_\_\_\_

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18)

**CASING AND TUBING PROGRAM**

<b>TYPE</b>	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
Conductor	20"	New	J-55	94#	126'	126'	CTS
Fresh Water	13 3/8"	New	H-40	48#	380'	380' ✓	680 sx/CTS ✓
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	1660'	1660' ✓	767 sx/CTS ✓
Production	6"	New	P-110 HP	24#	0'	4900'	
Production	5 1/2"		P-110 HP	20#	4900'	24770'	Tail 7995sx/ 100' Inside Intermediate
Liners							

*C. R. O.  
9-11-21*

<b>TYPE</b>	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
Conductor	20"	30"	0.25	2120	81	Class A	1.20/30% Excess
Fresh Water	13 3/8"	17.5"	0.380	2730	633	Class A	1.20/30% Excess
Coal	See	Surface	Casing				
Intermediate	9 5/8"	12 1/4"	0.352	3520	1768	Class A	1.19/40% Excess
Production	5 1/2"	8 3/4"-8 1/2"	0.361	14360	10500	Class A	1.19/5% Excess ✓
Tubing							
Liners							

**PACKERS**

Kind:				
Sizes:				
Depths Set:				

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WW-6B  
(10/14)

API NO. 47- 009 - \_\_\_\_\_

OPERATOR WELL NO. John Good Jr. BRK 401H

Well Pad Name: John Good Jr. BRK

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

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

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

Well will be perforated within the target formation and stimulated with a slurry of water, sand, and chemical additives at a high rate. This will be performed in stages with the plug and perf method along the wellbore until the entire lateral has been stimulated within the target formation. All stage plugs are then drilled out and the well is flowed back to surface. In some instances, additional toe prep may be performed by pumping additional water in the toe of the well prior to perforating and pumping Stage 1 to ensure that the toe guns/toe sleeves are fully open prior to pumping stage 1. The well is produced through surface facilities consisting of high pressure production units, 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): 21.91

22) Area to be disturbed for well pad only, less access road (acres): 8.63

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) up to 3%	<del>XXXXXXXXXX</del>	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL PROTECTION up to 3%	<del>XXXXXXXXXX</del>	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	<del>XXXXXXXXXX</del>	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	<del>XXXXXXXXXX</del>	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	CemNet	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	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
	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	CJ111	ACCELERATOR	SODIUM CHLORIDE	7440-23-5
PRODUCTION	<del>XXXXXXXXXX</del>	SS-11W	CJ880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4
	D047	FP 28L	<del>XXXXXXXXXX</del>	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	CJX157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	CJ540	HP FLUID LOSS ADDITIVE	ALIPHATIC AMIDE POLYMER	PROPRIETARY
	D255	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	MED TEMP FLUID LOSS ADDITIVE	POLYACRILIC POLYMER	PROPRIETARY
	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	CJ213	RETARDER	CHRYSTALLINE SILICA	14808-60-7
	<del>XXXXXXXXXX</del>	FL-66	CJ501	LOW TEMP FLUID LOSS ADD	POWDERED POLYSACCHARIDE	PROPRIETARY
	<del>XXXXXXXXXX</del>	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301	<del>XXXXXXXXXX</del>	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

**Southwestern Energy Company**

**Proposed Drilling Program**

Well: JOHN GOOD JR BRK 401  
 Field: PANHANDLE FIELD \\  
 County: BROOKE  
 SHL: 40.2238 Latitude -80.5805 Longitude  
 BHL: 40.2682 Latitude -80.6121 Longitude  
 KB Elev: 1,179 ft MSL

Re-entry Rig: SDC 40  
 Prospect: Marcellus Shale  
 State: WV



KB: 26 ft AGL GL Elev: 1,153 ft MSL

No COAL VOID Anticipated

PROD TOC Lead @ 1,880' MD  
 PROD TOC Tail @ 5,100' MD

*C. [Signature]*  
 1-11-21

**TUBULAR DETAIL**

Casing String	Casing Size (in)	Weight (Min)	Grade (Min)	Planned Interval	
				From	To
Conductor	20	94.0 #	J-55	0'	126'
Surface/Coal	13.375	48.0 #	H-40	0'	380'
Intermediate	9.625	36.0 #	J-55	0'	1,660'
Production	6	24.0 #	P-110 HP	0'	4,900'
	5.5	20.0 #	P-110 HP	4,900'	24,770'

**CEMENT DETAIL**

	Sacks	Class	Density
Conductor:	151	A	19.3
Surface:	380	A	15.6
Intermediate:	767	A	15.6
Production:	7995	A	15.6

126' to Air/ft  
 400' to Air/ft  
 1,680' to 10.5-11  
 TD at 5,446' to 11.5-12  
 6,705' to 12.2-12

KOP at 5,446' MD

Freshwater Depth - 326' TVD  
 Coal Void Depth - 308' TVD  
 Saltwater Depth - 448' TVD  
 TVD - 5,888'  
 TMD - 24,770'

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5,888' Target Center

TD at 24,770' MD  
 5,678' TVD

EOB at 6,705' MD

Onondaga 5,694' TVD

SHL Onondaga 5,904' TVD



4700900327

John Good Jr. BRK 401H AOR

API	Operator	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones Not Perforated
47-09-00113	SWN PRODUCTION COMPANY, LLC	ACTIVE	40.223907	-80.580720		MARCELLUS	
47-09-00124	SWN PRODUCTION COMPANY, LLC	ACTIVE	40.223944	-80.580734		MARCELLUS	
47-09-00188	SWN PRODUCTION COMPANY, LLC	ACTIVE	40.223796	-80.580680		MARCELLUS	
47-09-00189	SWN PRODUCTION COMPANY, LLC	ACTIVE	40.223811	-80.580611		MARCELLUS	
47-09-00196	SWN PRODUCTION COMPANY, LLC	ACTIVE	40.223833	-80.580693		MARCELLUS	
47-09-00197	SWN PRODUCTION COMPANY, LLC	ACTIVE	40.223848	-80.580624		MARCELLUS	
47-09-00198	SWN PRODUCTION COMPANY, LLC	ACTIVE	40.223870	-80.580707		MARCELLUS	

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WW-9  
(4/16)

API Number 47 - 009 4700900327  
Operator's Well No. John Good Jr. BRK 401H

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 Bethany & Steubenville East

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 )

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 SOBMs 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.

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.

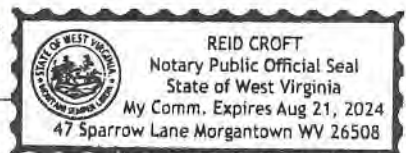
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is 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

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Subscribed and sworn before me this 4<sup>th</sup> day of January, 2021  
Reid Croft Notary Public

My commission expires August 26, 2024



SWN Production Co., LLC

Proposed Revegetation Treatment: Acres Disturbed 21.91 Prevegetation pH \_\_\_\_\_

Lime as determined by pH test min.2 Tons/acre or to correct to pH 8.63

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]* 1-11-21

Comments: \_\_\_\_\_

Title: Oil & Gas Inspector

Date: 1-11-21

Field Reviewed?  Yes

No

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## 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)

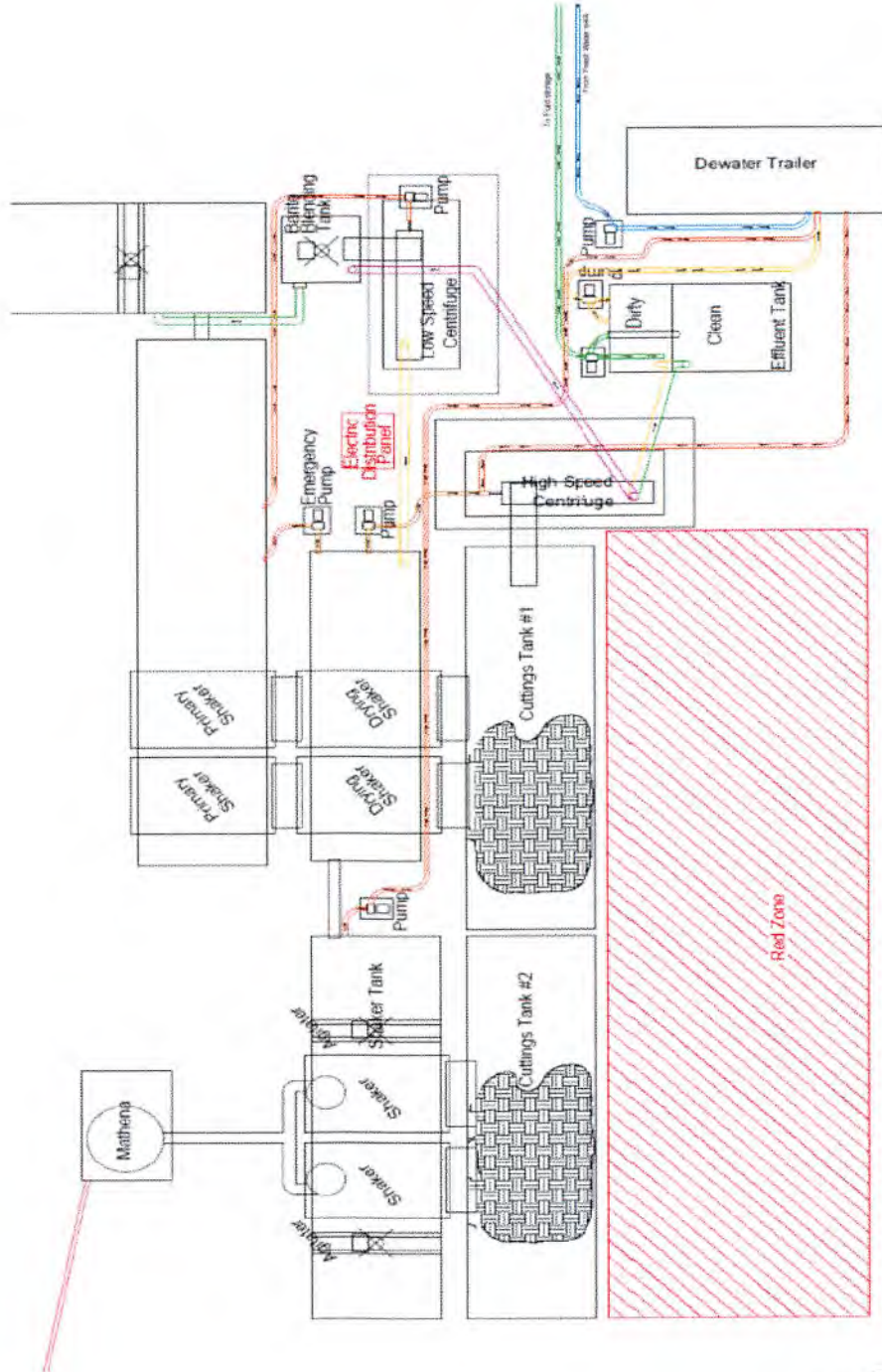
When drilling is converted to liquids drilling, the shale gas separator and associated shaker tank are bypassed, and the liquids system is processed over the primary and drying shaker systems. Cuttings drop into the cuttings tank for additional processing. Any recoverable associated liquids attached 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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EXAMPLE SCHEMATIC FOR CLOSED LOOP SOLIDS CONTROL SYSTEM



Solids Control Layout



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**Attachment 3B**  
**Drilling Mediums**

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

Air

Freshwater (if needed based on conditions)

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

Air

**Production Hole:**

Air

Synthetic Oil (Base Fluid for mud system)

Barite

Calcium Chloride

Lime

Organophilic Bentonite

Primary and Secondary Emulsifiers

Gilsonite

Calcium Carbonate

Friction Reducers

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## WVD Seeding Specification

Attachment 3C

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 0327  
*R<sub>A</sub> → V<sup>+</sup>*

To Order Seed contact Lyndsi Eddy Flippo office 570-996-4271 cell 501-269-5451 lyndsi\_eddy@swn.com (please allow 7 to 10 days for delivery)

NON-ORGANIC PROPERTIES		
Seed Mixture: ROW Mix	SWN Supplied	
Orchardgrass	40%	
Timothy	15%	
Annual Ryegrass	15%	
Brown Top Millet	5%	
Red Top	5%	
Medium Red Clover	5%	All legumes are inoculated at 5x normal rate
White Clover	5%	
Birdsfoot Trefoil	5%	
Rough Bluegrass	5%	
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	
Organic Fertilizer @ 200lbs per Acre	
Apply @ 200lbs per acre Oct. 15th- April 15th	
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	

# 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: John Good Jr. BRK 401H**  
**Bethany & Steubenville East QUAD**  
**Buffalo DISTRICT**  
**Brooke COUNTY, WEST VIRGINIA**

Submitted by:

Name: Brittany Woody

Date: 12/16/2020

Title: Senior Regulatory Analyst

SWN Production Co., LLC

Approved by:

Name:

Date: 1-11-21

Title: Oil and Gas Inspector

Approved by:

Name: \_\_\_\_\_

Date: \_\_\_\_\_

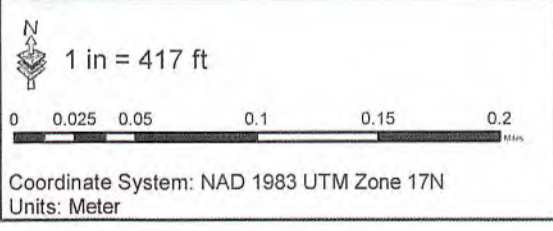
Title: \_\_\_\_\_

RECEIVED  
Office of Oil and Gas

JAN 15 2021

WV Department of  
Environmental Protection





S Spring     Parcel  
W Water Well     1500' Buffer  
P Pond

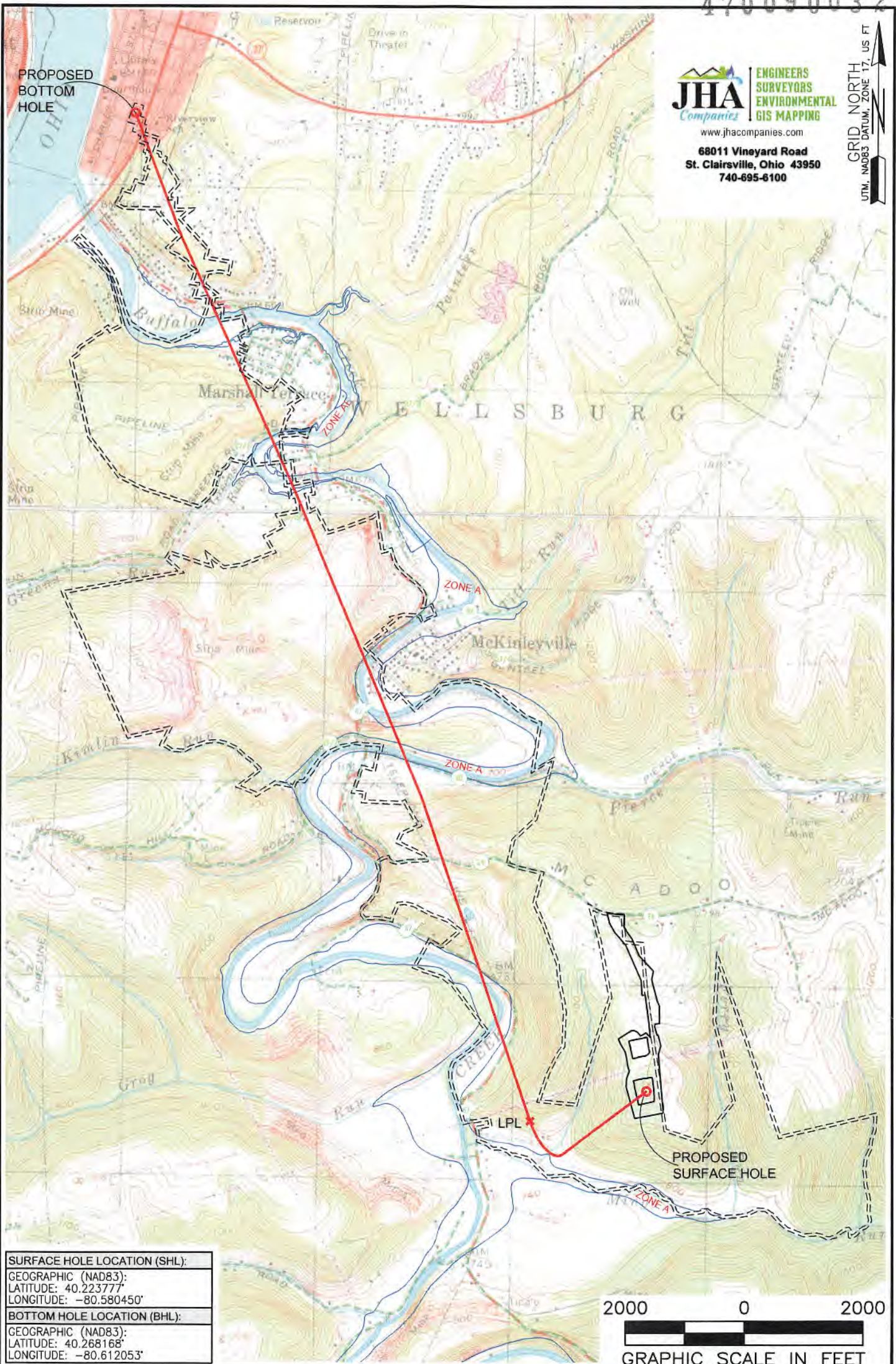
**Coordinates: 40.223798, -80.580594**

Water Purveyor Map  
 Well Pad: John Good Jr.  
 County: BRK

Date: 6/25/2020	Author: willisb
-----------------	-----------------

**JHA**  
Companies  
ENGINEERS  
SURVEYORS  
ENVIRONMENTAL  
GIS MAPPING  
www.jhacompanies.com  
68011 Vineyard Road  
St. Clairsville, Ohio 43950  
740-695-6100

GRID NORTH  
UTM, NAD83 DATUM, ZONE 17, US FT



<b>SURFACE HOLE LOCATION (SHL):</b>
GEOGRAPHIC (NAD83):
LATITUDE: 40.223777°
LONGITUDE: -80.580450°
<b>BOTTOM HOLE LOCATION (BHL):</b>
GEOGRAPHIC (NAD83):
LATITUDE: 40.268168°
LONGITUDE: -80.612053°

**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
- EXISTING / PRODUCING WELLHEAD
- LPL \* LANDING POINT LOCATION
- FLOOD PLAIN
- NATURAL WATERWAY
- ACCESS ROAD
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- LEASE BOUNDARY
- PROPOSED PATH

<b>WELL OPERATOR:</b> SWN PRODUCTION COMPANY, LLC	<b>WELL (FARM) NAME:</b> JOHN GOOD JR BRK	<b>WELL #</b> 401H	<b>SERIAL #</b> XXXX
<b>ADDRESS:</b> 1300 FORT PIERPONT DRIVE, SUITE 201, MORGANTOWN, WV 26508	<b>COUNTY:</b> BROOKE	<b>CODE:</b> 9	<b>DISTRICT:</b> BUFFALO
<b>SURFACE OWNER:</b> JOHN PRATHER GOOD JR IRREVOCABLE TRUST	<b>USGS 7 1/2 QUADRANGLE MAP NAME:</b> WILEYVILLE, WV		
		<b>API #</b> 47-009-XXXX	

LATITUDE: 40°15'00" SURFACE HOLE (2000' SCALE)

10887'

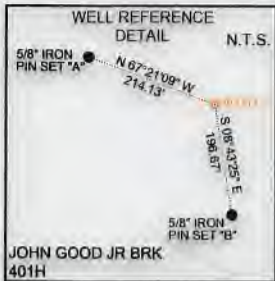
8060'

LATITUDE: 40°17'30" BOTTOM HOLE (2000' SCALE)

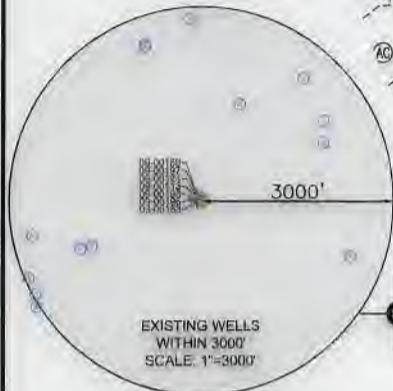


www.jha.companies.com

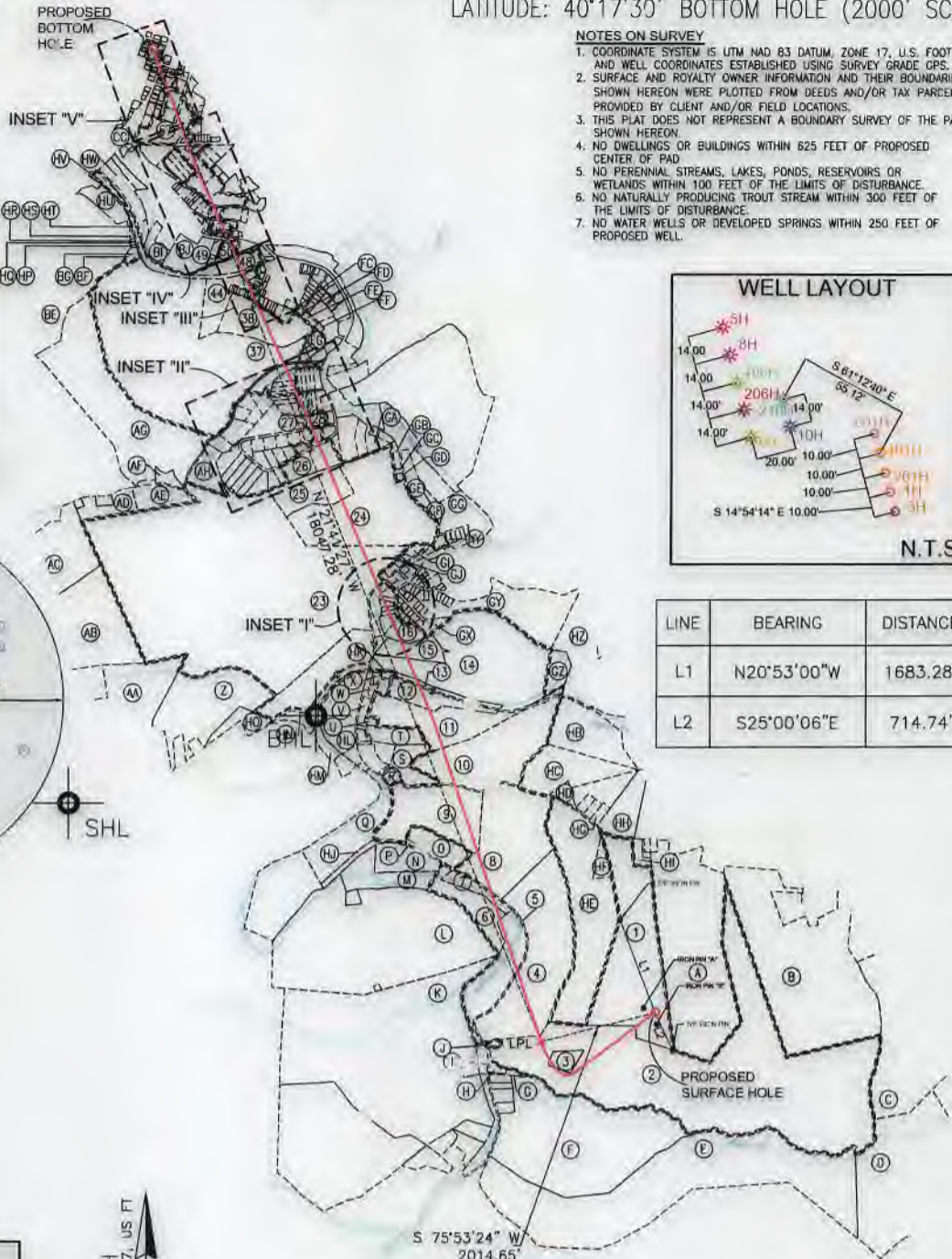
68011 Vineyard Road  
St. Clairsville, Ohio 43950  
740-695-6100



JOHN GOOD JR BRK  
401H



EXISTING WELLS  
WITHIN 3000'  
SCALE: 1"=3000'



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 625 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.

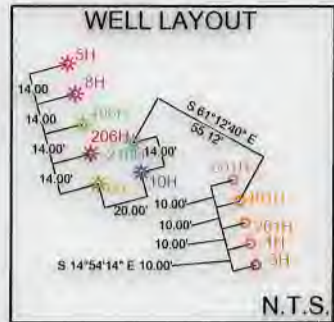


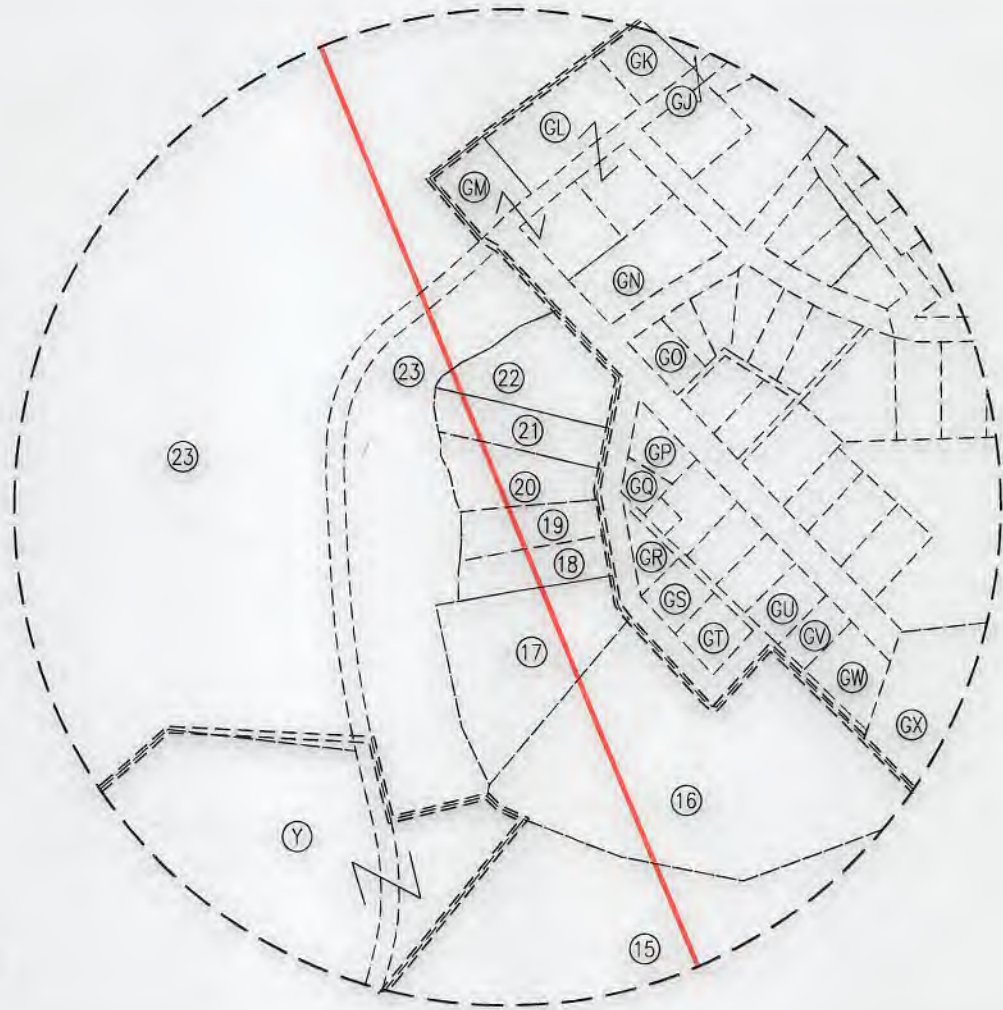
Table with 3 columns: LINE, BEARING, DISTANCE. Contains data for lines L1 and L2.

Location data table for Surface Hole (SHL), Landing Point (LPL), and Bottom Hole (BHL) with UTM coordinates.



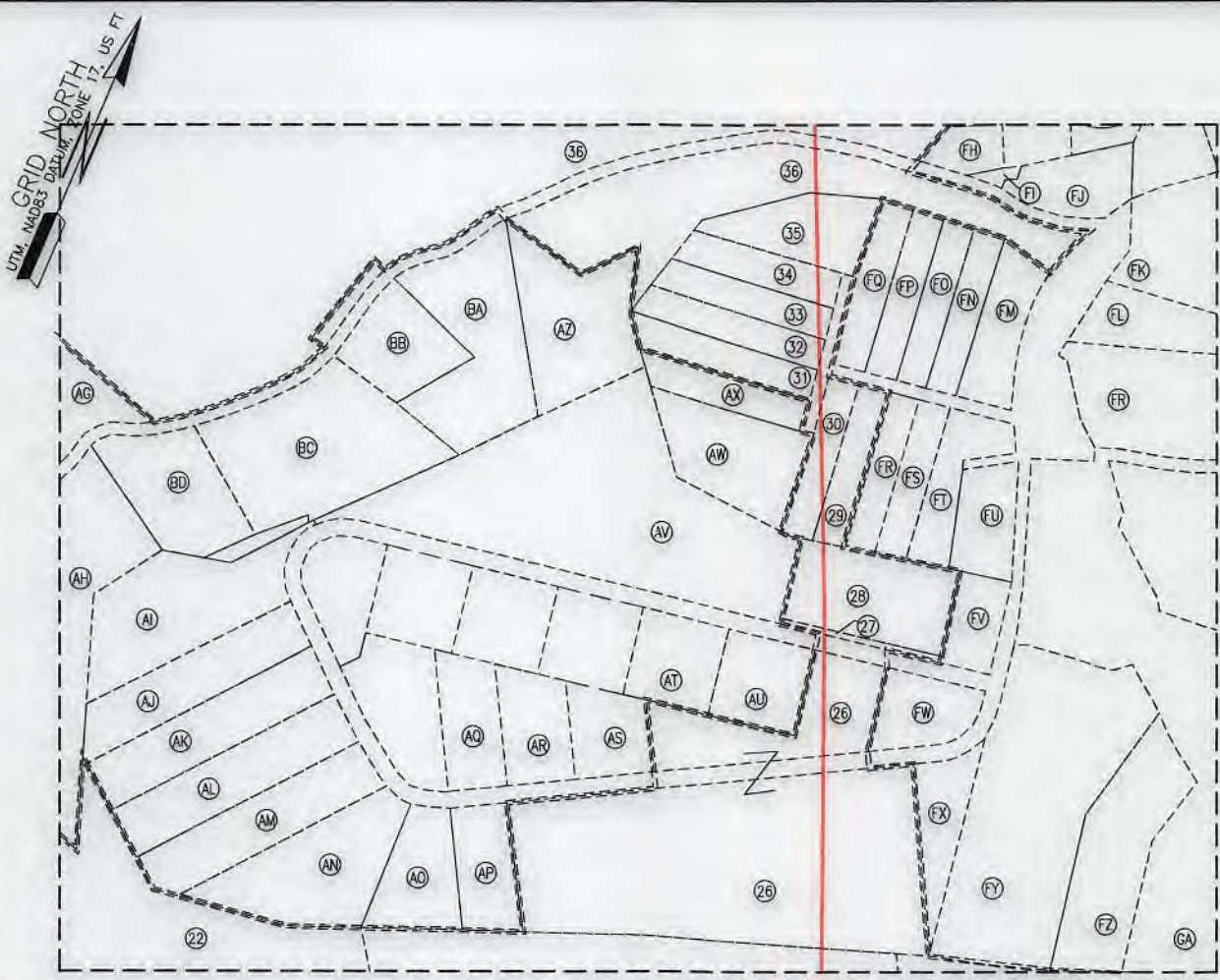
I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Form containing well details: Well Type (Production), Operator (SWN Production Company), Well # (47-009-00327), Location (John Good Jr Brk 401H), and other technical specifications.



GRID NORTH  
UTM, NAD83 DATUM, ZONE 17, US FT

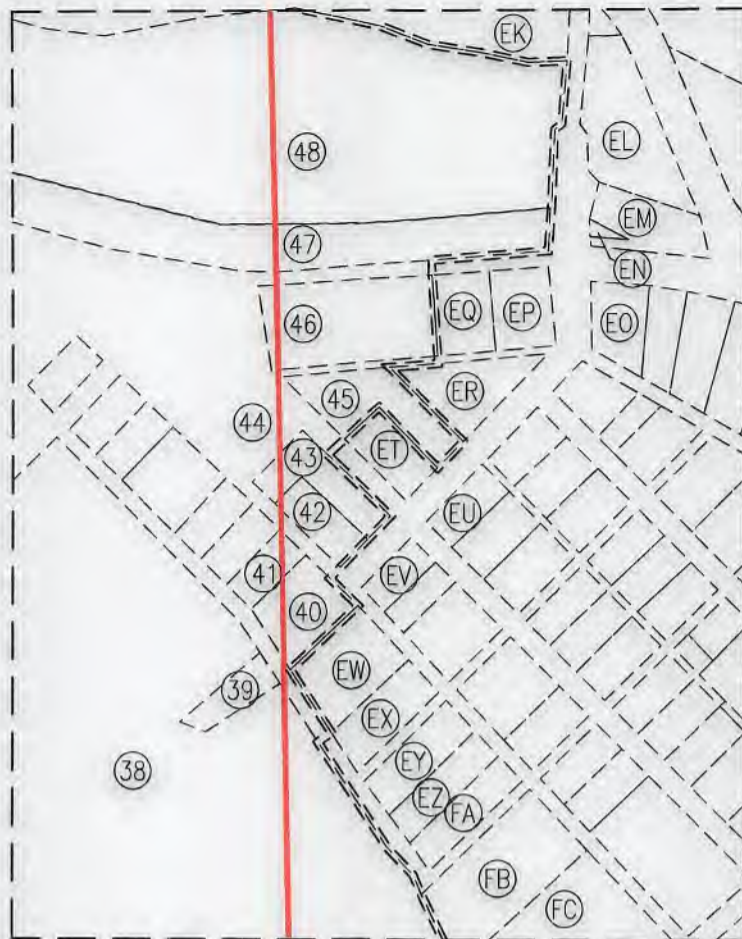
INSET I  
N.T.S.



GRID NORTH  
UTM, NAD83 DATUM, ZONE 17, US FT

INSET II  
N.T.S.

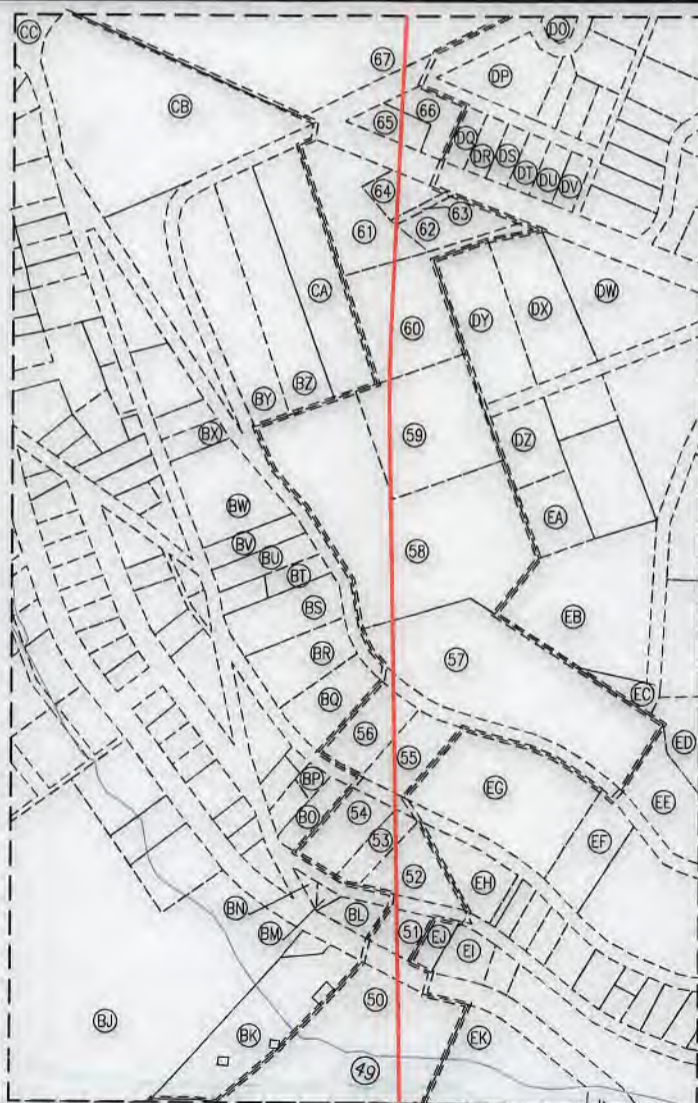
REVISIONS:	COMPANY: <b>SWN</b> Production Company, LLC		DATE: 01-04-2021 API NO: 47-009-XXXX DRAWN BY: H.KEMP
	OPERATOR'S: JOHN GOOD JR BRK		
	WELL #: 401H		SCALE: N/A
	DISTRICT: BUFFALO	COUNTY: BROOKE	STATE: WV
	DRAWING NO: 2020-0714 WELL LOCATION PLAT		



GRID NORTH  
UTM, NAD83 DATUM, ZONE 17, US FT

ES



INSET III  
N.T.S.

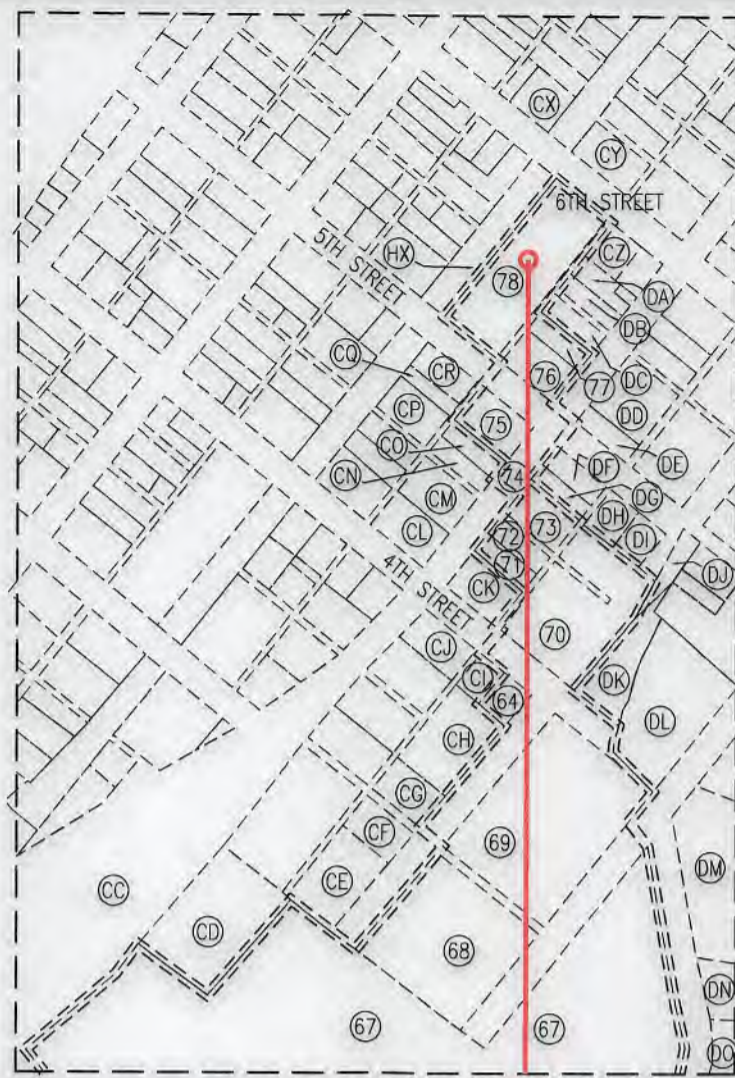


GRID NORTH  
UTM, NAD83 DATUM, ZONE 17, US FT

INSET IV  
N.T.S.

REVISIONS:


COMPANY:		 	
OPERATOR'S		JOHN GOOD JR BRK	
WELL #:		47-009-00327-46A 401H	
DISTRICT:	COUNTY:	STATE:	DATE:
BUFFALO	BROOKE	WV	01-04-2021
DRAWING NO:		SCALE:	
2020-0714		N/A	
WELL LOCATION PLAT			



INSET V  
N.T.S.


WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	GOOD JOHN PRATHER JR IRREVOCABLE TR DTD 4/11 (S)/(R)	03-838-001.0 ✓
TRACT SURFACE OWNER TAX PARCEL		
2	STARVAGGI INDUSTRIES INC.	03-837-053.0 ✓
3	CRAWFORD MARLIN G SR & JOY H (SURV)	3-837-53.2 ✓
4	SHELBY L. CARRELL, BONNIE LEE LUKACENA, EDWARD O'DYER, FAIGE ELIZABETH ROLLINS, JULIE SHEY SCHUEITZNER, ANA JULIE SHEY MILLER, SHANNON SCHUEITZNER, SHAYNE SCHUEITZNER AND CHERI A SHARPE	3-837-48 ✓
5	STATE OF WEST VIRGINIA DEPARTMENT OF TRANSPORTATION	BETHANY PIKE ✓
6	VENURI DWARNA NATH OBA AMERICAN HEART ASSOCIATES	3-837-47 ✓
7	BONNIE LEE LUKACENA, SHAYNE SCHUEITZNER, SHANNON SCHUEITZNER, SHELBY CARRELL, JULIE SHEY MILLER, A/K/A J SHEY SCHUEITZNER	3-837-49 ✓
8	GOOD JOHN P III; JOHNSTON KENNETH D (SURV)	3-832-117 ✓
9	GEORGETTI ROWDY T	3-832-116 ✓
10	JAMIE L. OHLER, LESUE OHLER AND JOSEPHINE OHLER	3-832-99.1 ✓
11	FEDAK MARK & GEORGIA	3-832-99 ✓
12	FEDAK MARK & GEORGIA	3-832-100 ✓
13	STATE OF WEST VIRGINIA DEPARTMENT OF TRANSPORTATION	PIERCE RUN ROAD ✓
14	HUBBARD SAMUEL HERVEY	3-832-95 ✓
15	MICHAEL SEREVICZ AND DELIA L. SEREVICZ	3-832-90 ✓
16	SUSAN A. FODOR	3-832-89 ✓
17	TOMSHACK MATTHEW PATRICK	3-832-88 ✓
18	TOMSHACK MATTHEW PATRICK	3-826-11 ✓
19	JAMES E. BEST AND ANNETTE M. BEST	3-832G-10 ✓
20	BEST JAMES E & ANNETTE M /TWS	3-832G-9 ✓
21	FOX JOHN H	3-832G-8 ✓
22	ROBERT F. OHLER, JR.	3-832G-7 ✓
23	SEHIAPPA & COMPANY INC	3-832-9 ✓
24	MCGOWAN HERBERT	3-832G-6 ✓
25	IRGII JAYD & KAREN S (SURV)	3-812G-67.1 ✓
26	MARINO STEVE D & MARY CHRISTINE (SURV)	3-832-61 ✓
27	MARLIN G. CRAWFORD A/K/A MARLIN G. CRAWFORD, JR.	3-832-51 ✓
28	MARLIN G. CRAWFORD A/K/A MARLIN G. CRAWFORD, JR.	3-832-50 ✓
29	FOYER LECIL H & PAULINA A (SURV)	3-832-44 ✓
30	ROCKEY DEBRA E	3-832-43 ✓
31	FRANK A & KATHERINE YANO (L2); KURT MICHAEL YANO (REMAINDERMAN)	3-832-40 ✓
32	JORDAN ROMALD W & HOPE L (SURV)	3-832-39 ✓
33	STILLWELL JAMES E SR; WICKHAM CATHI / ETL	3-832-38 ✓
34	BETTY L. FERDA	3-832-37 ✓
35	BETTY L. FERDA	3-832-36 ✓
36	DEBITCH GREGORY	1-832-1 ✓

WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS		
TRACT	SURFACE OWNER	TAX PARCEL
37	ROBIE GERTRUDE LOUISE MCMAHANE	3-827F-36 ✓
38	LORSHIN LUCINDA F & RIKOLAI A (SURV)	3-827F-30 ✓
39	JOHN WAYNE STEWART	3-827F-22 ✓
40	KIRNER WILLIAM CLINTON	3-827F-29 ✓
41	WALNOHA JOSEPH L & JAMES	3-827F-17 ✓
42	WILLIAMS MARTHA E	3-827F-10 ✓
43	WILLIAMS MARTHA K	3-827F-9 ✓
44	MACIAK EDWARD	3-827F-31 ✓
45	TERRY SUE GOFF	3-827F-7 ✓
46	STEIN JOSEPH PAUL	3-827F-5 ✓
47	UNKNOWN OWNERS	3-827F-158 ✓
48	FUCHS BEVERLY E	3-827F-159 ✓
49	STATE OF WEST VIRGINIA, DIVISION OF NATURAL	BUFFALO CREEK ✓
50	WELLSBURG FIRST CHURCH OF GOD	3-827F-160 ✓
51	WILLIAM HURILL, ROBIN L. SNYDER AND STACEY WISE	3-827F-153 ✓
52	HUKILL MAUNA RAY	3-827F-91 ✓
53	HUKILL MAUNA RAY	3-827F-92 ✓
54	MAUNA RAY HUKILL	3-827F-93 ✓
55	ROBIN JOHNSON	3-827F-75 ✓
56	LUKACENA BONNIE - 1/2; SCHUEITZNER SHAYNE - 1/8 ET AL	3-827F-73 ✓
57	MCMAHANS DARBY	3-827F-47 ✓
58	HOYT GARY	3-827F-48 ✓
59	BROOKE COUNTY COURT	3-827F-42 ✓
60	HOYT GARY W	3-827F-6.1 ✓
61	MAZZELLA ANDREW LAWRENCE	3-827F-9 ✓
62	OHLER MARY ANN	3-827F-9 ✓
63	HENDRICKSON DONALD & LINDA; TUD LEE MICHELLE & GRAY HOLLY	3-827F-8 ✓
64	HENDRICKSON DONALD & LINDA; TUD LEE MICHELLE & GRAY HOLLY	3-827F-7 ✓
65	LAW ROBERT O	3-827F-11 ✓
66	MAYHEW JACK PHILLIP	3-827F-32 ✓
67	MCMAHANS RONALD E	3-827F-2 ✓
68	RONNIE LEE LUKACENA, SHAYNE SCHUEITZNER, SHANNON SCHUEITZNER, SHELBY CARRELL, JULIE SHEY MILLER, A/K/A J SHEY SCHUEITZNER	7-W27F-233 ✓
69	RONNIE LEE LUKACENA, SHAYNE SCHUEITZNER, SHANNON SCHUEITZNER, SHELBY CARRELL, JULIE SHEY MILLER, A/K/A J SHEY SCHUEITZNER	7-W27F-234 ✓
70	GRIFFITH SUE A	7-W27F-222 ✓
71	BUCK STEVEN A	7-W27F-223 ✓
72	AMYNE EWOSIAK AND JOSEPH P. POTTIN	7-W27F-192 ✓
73	KATRINA RISE L	7-W27F-193 ✓
74	KATRINA RISE LEE	7-W27F-194 ✓
75	ALFRED T. MARINO	7-W27F-154 ✓
76	ALFRED T. MARINO	7-W27F-161 ✓
77	DANNY JOHNSTON	7-W27F-160 ✓
78	BUSINESS DEV CORPORATION OF THE NORTHERN PANHANDLE	7-W27F-154 ✓

REVISIONS:					
COMPANY:					
OPERATOR'S		JOHN GOOD JR BRK		DATE: 01-04-2021	
WELL #:		47-001-00327-W-4 401H		API NO: 47-009-XXXX	
DISTRICT:		BUFFALO		DRAWN BY: H.KEMP	
COUNTY:		BROOKE		SCALE: N/A	
STATE:		WV		DRAWING NO: 2020-0714	
WELL LOCATION PLAT					

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	JACKSON MARY JANET O D E TAL	3-833-60.0
B	PROELLOCHS JOHN H JR, BAY KEVIN & JODY	3-838-7.0
C	FEDAK MARK A & GEORGIA M (SURV)	3-838-14.0
D	BETHANY COLLEGE	3-838-31.0
E	PELUCETTE FAMILY TRUST NO. 2	3-837-63.0
F	JOHN E RIPLEY AND SHERRILL J, RIPLEY	3-837-62.0
G	CRAWFORD MARLIN G SR & JOY (SURV)	3-837-55
H	SMITH LAWRENCE PAUL SR	3-837-54
I	JOHNSTON WILLIAM F & HAZEL E (SURV)	3-837-53.1
J	KLAGES CLEO TRANSFEROR	3-837-52
K	JOHNSTON WILLIAM F & HAZEL E (SURV)	3-837-50
L	CHRISTMAN MARK A	3-837-45
M	MAZZELLA WELDING AND FABRICATION INC	3-837-46
N	MAZZELLA WELDING & FABRICATION INC	3-837-46.1
O	VENURI DWARKA NATH DBA AMERICAN HEART ASSOCIATES	3-837-47
P	PHYLLIS PEARL MARKER AND PATRICIA C MARKER	3-832-127
HI	MAZZELLA WELDING AND FABRICATION, INC.	3-832-128
Q	MORRIS JOSEPH C & PENNY J	3-832-129
R	VENURI HOME & GARDENS LLC	3-832-115
S	TONGHACK MATTHEW P	3-832-98.4
T	PAAMELA S. MERCER	3-832-99.3
U	VAN HORN LLOYD T & JUDITH KAY TOD AMY LYNN ET AL	3-832-106
V	VAN HORN LLOYD T & JUDITH KAY TOD AMY LYNN ET AL (ITWS)	3-832-104
W	MARK A FEDAK AND GEORGIA M FEDAK	3-832-103
HK	MARK FEDAK AND GEORGIA FEDAK	3-832-101
HL	HARRY ICKES AND JUDITH ICKES	3-832-133
HM	PATRICIA WILLIAMS	3-832-134
X	FEDAK MARK A & GEORGIA M	3-832-199
Y	REMOVED	
HN	PATRICIA WILLIAMS	3-832-198
HO	DAVID MCGOWAN	3-832-190
Z	TREDWAY ROBERT G JR	3-832-188
AA	JOYCE A, BRADY, BRIAN W, JOHNSTON, DANIEL L, JOHNSTON, KENNETH D, JOHNSTON, RALPH G, JOHNSTON AND ROBERT A JOHNSTON	3-832-185
AB	MASLO FARMS LLC & PENNSYLVANIA LLC	3-832-18
AC	TINA MARIE GASPARINE, DENNIS FRANKLIN MCQUILLAN, STRATA TRUST COMPANY, MARY A, ORTHS, DAVID GERALD VIDERMAN, JR, AND LINDA J R VIDERMAN, GEORGE VIDERMAN AND JERRY VIDERMAN	3-832-13
AD	PENNY L HAMILTON	3-832-11
AE	SCHIAPPA AND COMPANY INC	3-832-10
AF	ROBIE GERTRUDE LOUISE MCSHANE	3-832-30
AG	ROBIE GERTRUDE LOUISE MCSHANE	3-832-29
AH	DAVID B JONES SR & JUDY L JONES	3-832-8
AI	LISH FAMILY TRUST EDWARD C BEATRICE M TRUSTEES	3-832-73
AJ	MELANIE JEANNE LUNSFORD, AMANDA LUNSFORD, AND MICHAEL LUNSFORD	3-832-72
AK	WHEAT WILLIAM & HIGGS CARRIE (ITWS)	3-832-71
AL	WHEAT WILLIAM & HIGGS CARRIE (ITWS)	3-832-70
AM	SAUVAGEOT PATRICIA PREMESA GLORIA	3-832-69
AN	RECK JAY D & KAREN SUE	3-832-68
AO	JAY D RECK AND KAREN SUE RECK	3-832-67
AP	JAY D RECK AND KAREN SUE RECK	3-832-66
AQ	JACKFERT JEFFREY P	3-832-61
AR	JACKFERT JEFFREY P	3-832-62
AS	JACKFERT JEFFREY P	3-832-63
AT	JACKFERT JEFFREY P	3-832-65
AU	JACKFERT JEFFREY P	3-832-64
AV	SNODERLY CHRISTOPHER & JACQUELINE (SURV)	3-832-62
AW	YANO KURT MICHAEL LE FRANK & KATHERINE YANO	3-832-42
AX	YANO KURT MICHAEL LE FRANK & KATHERINE YANO	3-832-41
AZ	RONALD A. PETRUCCIOLI	3-832-2
BA	RONALD A. PETRUCCIOLI	3-832-3
BB	LORI PAYNE, GLENN A STEWART, JR, PENNY STEWART, AND TAMMY STEWART	3-832-4
BC	WALNDOHA WILLIAM R	3-832-5
BD	WILLIAM R WALNDOHA AND JESSICA WALNDOHA	3-832-7
BE	PAUL DAVID FORSYTHE AND PAMELA M FORSYTHE	3-827-17
BF	DOROTHY L FRISCO, ESTATE OF NANCY GIST, ROSEANNA TAYLOR, AND PATRICIA JO WNEK	3-827K-189
BG	DOROTHY L FRISCO, ESTATE OF NANCY GIST, ROSEANNA TAYLOR, AND PATRICIA JO WNEK	3-827K-190
BH	REMOVED	
HP	NILA POTKOSKI AND STANLEY POTKOSKI	3-827K-191
HQ	NILA POTKOSKI AND STANLEY POTKOSKI	3-827K-192.1
HR	RONALD WILLIAMS AND SANDRA L WILLIAMS	3-827K-192
HS	KIM BROWN, NICHELLE "NIKI" BROWN, DARRYL E BUMB, EUGENE E BURNS, JR, UNKNOWN HEIRS OR ASSIGNS OF DAVID COLLINS, HEATHER (BROWN) CONWELL, AARON MICHAEL FAIR, JAMES CHAD HALL, KUTEAKA HALL, VERNON HALL, DEBRA J (BURNS) JONES, SARAH E LAW, IENA (BROWN) TAVIS, ALESIA WITHERS, CHARLES "CHIP" WITHERS, EILEEN WITHERS, RONALD WIZ WITHERS, AND WILLIAM "HODDIE" WITHERS	3-827K-193
HT	LINDA S WILLIAMS	3-827K-194
HU	DANIEL P LOMBARDI AND DARLA ANN LOMBARDI	3-827K-211
HV	JOSEPH K MENDEL AND DIANA R MENDEL	3-827K-186
HW	BROOKE COUNTY BOARD OF EDUCATION	3-827K-212
BI	UNITED STATES OF AMERICA	3-827K-178
BJ	UNITED STATES OF AMERICA	3-827K-164
BK	WILLIAMS JACK T	3-827K-162
BL	HUKILL WILLIAM WISE STACEY SNYDER ROBIN	3-827K-152
BM	HUKILL MAUNA KAY	3-827K-151
BN	HARTLEY LEE A SR	3-827K-150
BO	HUKILL AMANDA L & MAUNA K (SURV)	3-827K-94

BP	HUKILL AMANDA L & MAUNA K (SURV)	3-827K-96
BQ	WHITE KAY LAVALINE	3-827K-71
BR	MICHAEL H ALLMAN, JEFFREY W PFISTER, BROOKE LYNN ALLMAN YOST, AND REV A A ALLMAN YOST	3-827K-70
BS	SADIE COEN	3-827K-69
BT	WEAVER MARK E	3-827K-68
BU	FULKS JOYCE AMBER	3-827K-66
BV	ZINK SANDRA K	3-827K-65
BW	MCALLISTER PHYLLIS M	3-827K-64
BX	MCALLISTER PHYLLIS M	3-827K-63
BY	HAMILTON WILLIAM BRUCE & LISA E (SURV)	3-827K-3
BZ	ROBINSON JAMES L & BONNIE S (SURVIVORSHIP)	3-827K-4
CA	HQIT GARY	3-827K-5
CB	SPERRINGER WILLIAM A & VELMA MAE	3-827K-1
CC	STATE OF WEST VIRGINIA DEPARTMENT OF TRANSPORTATION	STATE ROUTE 2
CD	STATE OF WEST VIRGINIA, BY THE STATE ROAD COMMISSION OF WEST VIRGINIA	3-827F-1
CE	STATE ROAD COMMISSION	7-W27F-232
CF	STATE ROAD COMMISSION	7-W27F-231
CG	STATE ROAD COMMISSION	7-W27F-230
CH	STATE ROAD COMMISSION	7-W27F-229
CI	DANIEL J VIZYAK AND KATHRYN P VIZYAK	7-W27F-228
CJ	DANIEL J VIZYAK AND KATHRYN P VIZYAK	7-W27F-190
CK	KOSCEVIC DON MICHAEL MARK FICCA BONNIE	7-W27F-181
CL	SALVATION ARMY	7-W27F-168
CM	SALVATION ARMY	7-W27F-167
CN	LVS, LLC	7-W27F-166
CO	CALENDINE RICHARD JR	7-W27F-165
CP	FERGUSON IRR INCOME ONLY TR TOD FERGUSON, TRUSTEE	7-W27F-163
CQ	FERGUSON IRR INCOME ONLY TR TOD FERGUSON, TRUSTEE	7-W27F-162.1
CR	BUSINESS DEVELOPMENT CORPORATION OF THE NORTHERN PANHANDLE	7-W27F-162
HX	CITY OF WELLSBURG	7-W27F-105
CS	REMOVED	
CT	REMOVED	
CU	REMOVED	
CV	REMOVED	
CW	REMOVED	
CX	REMOVED	
CY	BUSINESS DEVELOPMENT CORP OF THE NORTHERN PANHANDLE	7-W27F-151
CZ	MORRIS TIMOTHY G	7-W27F-155
DA	MORRIS TIMOTHY G & CARLA A (SURV)	7-W27F-157
DB	MORRIS TIMOTHY GENE	7-W27F-158
DC	MILLER LOUIS & ARJINE (SURV)	7-W27F-159
DD	HOLDEN DAVID	7-W27F-220
DE	SHAFFER JACK J. & AMY (SURV)	7-W27F-197
DF	SHAFFER JACK J & AMY D (SURV)	7-W27F-196
DG	WILLIAM F WITHERS, SR, RONALD A WITHERS, EILEEN WITHERS, CHARLES WITHERS, ALESIA WITHER, VERNON HALL KUTEAKA HALL, JAMES CHAD ALLEN, AARON MICHAEL FAIR ET AL	7-W27F-195
DH	HILL JOHN HENDERSON & DARLENE KAY (SURV)	7-W27F-221
DI	FAIR MICHAEL A & ELIZABETH Y (SURV)	7-W27F-222
DJ	CHAPMAN F A EST	7-W27F-238
DK	SHELBY CARRELL, BONNIE LUKACENA, JULIE SHEY MILLER A/K/A J SHEY SCHUETZNER, SHANON SCHUETZNER & SHAYNE SCHUETZNER	7-W27F-235
DL	COEN STACEY	7-W27F-236
DM	KUHN GEORGE C	3-827K-16
DN	CHRISTINA LELJOIT	3-827K-15
DO	CHARLES E MALONEY JR	3-827K-14
DP	DOCK E & LAVON R RUTAN	3-827K-3
DQ	MATHEW JACK MORGAN THERESIA	3-827K-13
DR	LORRAINE E OHLER	3-827K-14
DS	LORRAINE E OHLER	3-827K-15
DT	MARTINDILL CATHY A	3-827K-16
DU	MARTINDILL CATHY A	3-827K-17
DV	RITCHEA MARGARET	3-827K-18
DW	HAMILTON SARAH E & JAYSON E (SURV)	3-827K-10
DX	HAMILTON SARAH E	3-827K-20
DY	OHLER MARY ANN	3-827K-21
DZ	HORNICK RUSSELLA	3-827K-23
EA	GILL JAMES M GILL COLLENE M (ITWS)	3-827K-24
EB	MAHAN PAULA RAYE & MICHAEL ALLEN	3-827K-25
EC	MC MANUS LARRY	3-827K-25.1
ED	MCFADDEN WILLIAM B SHARI L (ITWS)	3-827K-33
EE	MC MANUS LARRY	3-827K-46
EF	ONONDAGA HOLDING COMPANY LLC	3-827K-75
EG	SHELBY CARRELL, BONNIE LUKACENA, JULIE SHEY MILLER A/K/A J SHEY SCHUETZNER, SHANON SCHUETZNER & SHAYNE SCHUETZNER	3-827K-74
EH	BIANCHINI ZACHERY D; BIANCHINI EMILY A (ITWS)	3-827K-90
EI	HUKILL MAUNA KAY	3-827K-155
EJ	HUKILL MAUNA KAY	3-827K-154
EK	WELLSBURG FIRST CHURCH OF GOD, THE	3-827K-158
EL	THOMAS H HARRISON, ANITA M HARRISON, JOHN WESLEY MELTON JR ET AL, RAY C OTTE, JR, JOHN C MCCORD, IV, THOMAS A LOVE, DELIA DAVIS BALOG, AND STATE OF WEST VIRGINIA - DIVISION OF NATURAL RESOURCES	3-827K-26
EM	BUTTS THOMAS L	3-827K-1
EN	BUTTS THOMAS L	3-827K-2
EO	KEENER DANIEL E & CASSANDRA J (SURV)	3-827K-2
EP	EARNEST MERLE O	3-827K-3
EQ	ROHRA BAUGH LENORE I	3-827K-4

REVISIONS:	COMPANY: 		DATE: 01-04-2021	
	OPERATOR'S: JOHN GOOD JR BRK		API NO: 47-009-XXXX	
	WELL #: 47-009-00327-N6A 401H		DRAWN BY: H.KEMP	
	DISTRICT: BUFFALO	COUNTY: BROOKE	STATE: WV	SCALE: N/A
	DRAWING NO: 2020-0714			
	WELL LOCATION PLAT			

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
ER	KIM SMITH VINSON, CHESTER M MCCORD, THOMAS A MCCORD, BRIAN SLUYTER, DIRK SLUYTER, SANDRA HALL HARTNER, THOMAS CLIFFORD, PAUL JOSEPH CLIFFORD, DONA CLIFFORD, THOMAS H HARRISON, ANITA M HARRISON, TRUSTEE FOR DAVID H HARRISON, JOHN C MCCORD IV, BENEFICIARY OF TRUST, JOHN WESLEY MELTON JR, RICHARD HUNTINGTON MELTON, RAY C OTTE, JR, MARK FREEL AND ERIC STEVEN FREEL	3-B27P-6
ES	GOFF TERRY SUE	3-B27P-7
ET	GOFF TERRY SUE	3-B27P-8
EU	BETHANY PIKE VOLUNTEER FIRE DEPARTMENT INC	3-B27P-28
EV	MISCH EUGENE THOMAS	3-B27P-24
EW	KISNER WILLIAM C	3-B27P-19
EK	HARTZELL JOANNE K	3-B27P-20
EY	JOANNA L HARTZELL	3-B27R-49
EZ	JOANNA L HARTZELL	3-B27R-45
FA	WILLIAMS STEVEN E & JESSICA (SURV)	3-B27R-47
FB	WILLIAMS STEVEN E & JESSICA (SURV)	3-B27R-46
FC	WALLACE JAMES	3-B27R-43
FD	LUCINDA F LUKSHIN	3-B27R-51
FE	HARVEY MICHAEL L & MARSHA L (SURV)	3-B27R-52
FF	OSSMAN ROBERT F JR & LORRAINE	3-B27R-53
FG	GEORGIANN M DAY AND EVERETT H DAY	3-B27R-84
FH	EDWARD W NICHOLSON	3-B27R-82
FI	FRANK E YANO	3-B27R-81
FJ	ELLIOTT GARY & EVA K (SURV)	3-B27R-80
FK	ZAITA EDWARD C, DAVID, THEODORE ETAL (SURV)	3-B27R-78
FL	BETHANY PIKE VOLUNTEER FIRE DEPARTMENT	3-B27R-79
FM	SHIRLEY HARRISON	3-B32-31
FN	ASHLEY KOVALSKI	3-B32-32
FO	CHIVERS THOMAS S & JENNIFER G (SURV)	3-B32-33
FP	CHIVERS THOMAS S & JENNIFER G (SURV)	3-B32-34
FQ	TENNANT BLAINE A	3-B32-35
FR	KOSCEVIC DON ALAN	3-B32-45
FS	ROCKEY ELEANOR L	3-B32-46
FT	SHIRLEY HARRISON	3-B32-47
FU	HARRISON RICHARD E JR	3-B32-48
FV	PRAMESA GLORIA	3-B32-49
FW	STEVEN D MARTINO AND MARY C MARTINO	3-B32-53
FX	STEVEN D MARTINO AND MARY C MARTINO	3-B32-65
FY	PRATZ GARY LEE & HANNAH JANE	3-B32-74
FZ	WOODBURN ERIC J	3-B32-75
GA	LESLIE R OHLER AND JOSEPHINE L OHLER	3-B32-76
GB	TONY A SMITH	3-B32-79
GC	BLACK KEITH	3-B32-80
GD	BLACK CINDY LEE	3-B32-81
GE	TAYLOR SYLVIA	3-B32-82
GF	TAYLOR WAYNE & SYLVIA (SURV)	3-B32G-86
GG	TERRY L STEWART AND CHARLOTTE M STEWART	3-B32H-1
GH	REMOVED	
HY	THE BROOKE COUNTY COMMISSION	3-B32H-49
GI	VEMURI HOME & GARDENS LLC	3-B32G-1
GJ	JAMES SCOTT GEAR	3-B32G-3
GK	JAMES SCOTT GEAR	3-B32G-4
GL	REED LARRY MICHAEL DEBORAH RENEE (JTWS)	3-B32G-5
GM	REED LARRY M & DEBORAH R (SURV)	3-B32G-6
GN	STARVAGGI INDUSTRIES, INC.	3-B32G-63
GO	LONG WILLIAM G & FLORENCE I (SURV)	3-B32G-25
GP	BEST LUCILLE	3-B32G-14
QQ	WILLIAMS DAVID A	3-B32G-13
GR	BRADY EDWARD DEAN	3-B32G-12
GS	BRADY EDWARD DEAN	3-B32-92
GT	LANCASTER CARY & PATRICIA SURV	3-B32-91
GU	TRUSTEES OF THE MARY MARGARET LANCASTER TRUST (LE) GEORGIA M FEDAK, MARIE J DOWDEN, WALTER E LANCASTER, CARY RALPH LANCASTER (REMAINDERMAN)	3-B32-93
GV	BEST TERRY LYNN	3-B32-94
GW	LUCILLE M. BEST, JAMES BEST, TERRY LINN BEST, AND GLENDA BROOKS	3-B32-95
GX	BEST JAMES E & ANNETTE M (SURV)	3-B32-201
GY	STEWART ALBERT & LOTTIE	3-B32H-50
HZ	STARVAGGI INDUSTRIES, INC	3-B33-54
GZ	HUBBARD SAMUEL HERVEY	3-B32-97
HA	REMOVED	
HB	ALLEN JAMES S & ADRIENE N SURV (SURVIVORSHIP)	3-B32-98
HC	MARKER EDWARD J	3-B32-126
HD	PIERCE DAVID	3-B32-125
HE	MARSH LIVING TRUST 1/28/13 (TRUS-PHYLLIS MARSH)	3-B32-118
HF	JOHN PRATHER GOOD, III, AND LAURIE THOMAS-GOOD	3-B32-119
HG	HAVELKA CRAIG & COURTNEY	3-B32-121
HH	BIRDSALL BRIAN	3-B32-120
HI	GOOD JOHN PRATHER JR IRREVOCABLE TR DTD 4/11	3-B33-57

REVISIONS:


COMPANY:



OPERATOR'S

JOHN GOOD JR BRK

WELL #:

401H

DISTRICT:  
BUFFALO

COUNTY:  
BROOKE

STATE:  
WV

DATE: 01-04-2021  
API NO: 47-009-XXXXX  
DRAWN BY: H.KEMP  
SCALE: N/A  
DRAWING NO: 2020-0714  
WELL LOCATION PLAT



4700900327

WW-6A1  
(5/13)

Operator's Well No. John Good Jr BRK 401H

**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
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SEE EXHIBIT "A"

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

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

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

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The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, 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: John D. Startz  
 Its: John Startz, Technical Expert 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, Operator  
 John Good Jr BRK 401H  
 Brooke County, West Virginia

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG
1)	3-B38-1	John Prather Good, Jr.	Range Resources - Appalachia, L.L.C. Chesapeake Appalachia, L.L.C.	12.50%	10/274 10/552
2)	3-B37-53	Starvaggi Industries, Incorporated	Fortuna Energy Inc. Range Resources - Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	9/532 10/226 10/541 30/480
3)	3-B37-53.2	Starvaggi Industries, Incorporated	Fortuna Energy Inc. Range Resources - Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	9/532 10/226 10/541 30/480
4)	3-B37-48	Bonnie Lukacena, married  Shayne Schuetzner, a single man  Shanon Schuetzner, a married man dealing in his sole and separate property Shey Schuetzner, a single woman  Shelby Carrell, a married woman dealing in her sole and separate property John Thomas Rodgers, a single man	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	14.00%  14.00%  14.00%  14.00%  14.00%  18.00%	10/634 30/480 10/669 30/480 10/665 30/480 10/673 30/480 11/123 30/480 17/298 30/480

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 John Good Jr BRK 401H  
 Brooke County, West Virginia

		Paige Elizabeth Rollins, single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	21/506 30/480
		Cheri A. Sharpe, a married woman acting in her own rights	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	21/511 30/480
5)	Bethany Pike	West Virginia Department of Transportation, Division of Highways	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	18/723 30/480
6)	3-B37-47	Gary T. Bucey & Linda T. Bucey, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	16/317 30/480
		Jeffrey M. Bucey & Mary Patricia Bucey, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	16/307 30/480
		Timothy K. Bucey & Trudy Jo Bucey, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	16/328 30/480
		Shirley Ann Johnson, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	16/338 30/480
		Lynn Wells Dodd, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	16/84 30/480
		Rebecca Wells Rocca & Frank H. Rocca, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	16/323 30/480
		Keith Dodd & Rose M. Dodd, husband & wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	16/333 30/480
		Dwarka Nath Vemuri, d/b/a American Heart Associates	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	14/767 30/480
		Henry R. Wells & Raynel Wells, husband & wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	16/697 30/480
7)	3-B37-49	Bonnie Lukacena, married	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	10/638 30/480

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John Good Jr BRK 401H  
Brooke County, West Virginia

		Shayne Schuetzner, a single man	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	10/678 30/480
		Shanon Schuetzner, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	10/682 30/480
		Shelby Carrell, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	11/25 30/480
		Shey Schuetzner, a single woman	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	10/660 30/480
8)	3-B32-117	John P. Good, III, a single man, and Kenneth D. Johnston, a single man	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	13/796 30/480
9)	3-B32-116	George Markley Lewis, III, a married man	SWN Production Company, LLC	16.00%	34/577
		Margaret Lewis Stevens, a married woman, dealing in her sole and separate property	SWN Production Company, LLC	16.00%	34/573
		James P. Lewis Revocable Trust	SWN Production Company, LLC	16.00%	34/592
		David Markley Lewis, single	SWN Production Company, LLC	16.00%	34/636
		Peery Brittain Lewis, Jr., a married man	SWN Production Company, LLC	16.00%	34/640
		Rebecca Lewis Binder, single	SWN Production Company, LLC	16.00%	34/644
		Golden Eagle Resources II, LLC	SWN Production Company, LLC	18.00%	40/586
10)	3-B32-99.1	George Markley Lewis, III, a married man, dealing herein with his separate property	SWN Production Company, LLC	16.00%	34/577

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John Good Jr BRK 401H  
Brooke County, West Virginia

		Margaret Lewis Stevens, a married woman, dealing in her sole and separate property	SWN Production Company, LLC	16.00%	34/573
		James P. Lewis Revocable Trust	SWN Production Company, LLC	16.00%	34/592
		David Markley Lewis, single	SWN Production Company, LLC	16.00%	34/636
		Peery Brittain Lewis, Jr., a married man, dealing herein with his separate property	SWN Production Company, LLC	16.00%	34/640
		Rebecca Lewis Binder, single	SWN Production Company, LLC	16.00%	34/644
		Golden Eagle Resources II, LLC	SWN Production Company, LLC	18.00%	40/586
11)	3-B32-99	George Markley Lewis, III, a married man, dealing herein with his separate property	SWN Production Company, LLC	16.00%	34/577
		Margaret Lewis Stevens, a married woman, dealing in her sole and separate property	SWN Production Company, LLC	16.00%	34/573
		James P. Lewis Revocable Trust	SWN Production Company, LLC	16.00%	34/592
		David Markley Lewis, single	SWN Production Company, LLC	16.00%	34/636
		Peery Brittain Lewis, Jr., a married man, dealing herein with his separate property	SWN Production Company, LLC	16.00%	34/640
		Rebecca Lewis Binder, single	SWN Production Company, LLC	16.00%	34/644
		Golden Eagle Resources II, LLC	SWN Production Company, LLC	18.00%	40/586

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John Good Jr BRK 401H  
Brooke County, West Virginia

12)	3-B32-100	George Markley Lewis, III, a married man, dealing herein with his separate property	SWN Production Company, LLC	16.00%	34/577
		Margaret Lewis Stevens, a married woman, dealing in her sole and separate property	SWN Production Company, LLC	16.00%	34/573
		James P. Lewis Revocable Trust	SWN Production Company, LLC	16.00%	34/592
		David Markley Lewis, single	SWN Production Company, LLC	16.00%	34/636
		Peery Brittain Lewis, Jr., a married man, dealing herein with his separate property	SWN Production Company, LLC	16.00%	34/640
		Rebecca Lewis Binder, single	SWN Production Company, LLC	16.00%	34/644
		Golden Eagle Resources II, LLC	SWN Production Company, LLC	18.00%	40/586
		13)	Pierce Run Road	West Virginia Department of Transportation, Division of Highways	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC
14)	3-B32-96	Samuel H. Hubbard and Shelba Hubbard, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	11/720 30/480
15)	3-B32-90	Leo F. Bolden and Barbara R. Bolden, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	13/213 30/480
16)	3-B32-89	Kasler Oil & Gas Development L.L.C., an Ohio Limited Liability company	SWN Production Company, LLC	15.00%	33/696
		Young Brothers L.L.C., an Oregon Limited liability company	SWN Production Company, LLC	15.00%	33/691
17)	3-B32-88	Kasler Oil & Gas Development L.L.C., an Ohio Limited Liability company	SWN Production Company, LLC	15.00%	33/696

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 John Good Jr BRK 401H  
 Brooke County, West Virginia



		Young Brothers L.L.C., an Oregon Limited liability company	SWN Production Company, LLC	15.00%	33/691
18)	3-B32G-11	Wilma Sue Yano and Robert J. Yano, wife and husband	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	23/748 30/480
19)	3-B32G-10	James E. Best and Annette M. Best, husband and wife	SWN Production Company, LLC	18.00%	56/248
20)	3-B32G-9	James E. Best and Annette M. Best, husband and wife	SWN Production Company, LLC	18.00%	56/248
21)	3-B32G-8	John H. Fox, a single man	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	24/542 30/480
22)	3-B32G-7	Robert F. Ohler, a widower	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	24/85 30/480
23)	3-B32-9	Schiappa and Company, Inc.	SWN Production Company, LLC	15.50%	33/356
24)	3-B32G-67	Bounty Minerals LLC, a Texas Limited Liability Company	SWN Production Company, LLC	18.00%	41/38
25)	3-B32G-67.1	Bounty Minerals LLC, a Texas Limited Liability Company	SWN Production Company, LLC	18.00%	41/38
		Schiappa and Company, Inc.	SWN Production Company, LLC	18.00%	39/605
26)	3-B32-64	Steve D. Martino and Mary Christine Martino, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	22/302 30/480
27)	3-B32-51	Marlin G. Crawford, divorced and unremarried, and Judith A. Crawford, divorced and unremarried	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	16.00%	22/398 30/480
28)	3-B32-50	Marlin G. Crawford, divorced and unremarried, and Judith A. Crawford, divorced and unremarried	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	16.00%	22/398 30/480

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John Good Jr BRK 401H  
Brooke County, West Virginia

29)	3-B32-44	Cecil H. Toner and Pamela A. Toner, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	26/54 30/480
30)	3-B32-43	Debra K Rockey, divorced and unremarried	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	25/612 30/480
31)	3-B32-40	Frank A. Yano and Katherine Yano, husband and wife, (Life Tenants), and Kurt Michael Yano, single, (remainderman)	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	26/464 30/480
32)	3-B32-39	Ronald W. Jordan and Hope L. Jordan, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	25/607 30/480
33)	3-B32-38	James Edward Stillwell and Katherine I. Stillwell, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	26/342 30/480
34)	3-B32-37	John Ferda and Betty Ferda, a/k/a Betty L. Ferda, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	26/372 30/480
35)	3-B32-36	John Ferda and Betty Ferda, a/k/a Betty L. Ferda, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	26/372 30/480
36)	3-B32-1	Gregory S. Deditch, a married man, dealing herein with his separate property	SWN Production Company, LLC	18.00%	37/718
37)	3-B27P-30	Gertrude Louise McShane Robie, a married woman dealing herein with her separate property, and Richard Robert Robie, her husband	SWN Production Company, LLC	18.00%	33/605
38)	3-B27R-50	William Kisner, a single man	SWN Production Company, LLC	18.00%	42/452
39)	3-B27P-22	Sandra Hall Hartner, married, dealing herein with her separate property Kim Smith Vinson, married, dealing herein with her separate property	SWN Production Company, LLC SWN Production Company, LLC	18.00% 18.00%	45/549 46/756



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John Good Jr BRK 401H  
Brooke County, West Virginia

Thomas A. McCord II, married, dealing in his separate property	SWN Production Company, LLC	18.00%	46/750
Dorothy Kay Clifford, married, dealing herein with her separate property	SWN Production Company, LLC	18.00%	47/119
Chester M. McCord, married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	47/613
Ray C. Otte Jr., married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	47/72
Brian H. Sluyter, married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	49/510
John C. McCord IV, married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	47/7
Dirk E. Sluyter, married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	57/346
Anita M. Harrison, appearing individually, and as Trustee for the David Harrison Trust	SWN Production Company, LLC	18.00%	60/253
Thomas H. Harrison, married, dealing herein with his separate property, Individually and as Trustee for the Hazel C. Harrison Testamentary Trust	SWN Production Company, LLC	18.00%	60/259
Eric Steven Freel, single	SWN Production Company, LLC	18.00%	52/762
Mark P. Freel, single	SWN Production Company, LLC	18.00%	60/544
John Wesley Melton	SWN Production Company, LLC	18.00%	60/167

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John Good Jr BRK 401H  
Brooke County, West Virginia

		Richard Huntington Melton	SWN Production Company, LLC	18.00%	60/167
40)	3-B27P-18	Sandra Hall Hartner, married, dealing herein with her separate property	SWN Production Company, LLC	18.00%	45/549
		Kim Smith Vinson, married, dealing herein with her separate property	SWN Production Company, LLC	18.00%	46/756
		Thomas A. McCord II, married, dealing in his separate property	SWN Production Company, LLC	18.00%	46/750
		Dorothy Kay Clifford, married, dealing herein with her separate property	SWN Production Company, LLC	18.00%	47/119
		Chester M. McCord, married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	47/613
		Ray C. Otte Jr., married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	47/72
		Brian H. Sluyter, married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	49/510
		John C. McCord IV, married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	47/7
		Dirk E. Sluyter, married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	57/346
		Anita M. Harrison, appearing individually, and as Trustee for the David Harrison Trust	SWN Production Company, LLC	18.00%	60/253
		Thomas H. Harrison, married, dealing herein with his separate property, Individually and as Trustee for the Hazel C. Harrison Testamentary Trust	SWN Production Company, LLC	18.00%	60/259

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John Good Jr BRK 401H  
Brooke County, West Virginia

		Eric Steven Freel, single	SWN Production Company, LLC	18.00%	52/762
		Mark P. Freel, single	SWN Production Company, LLC	18.00%	60/544
		John Wesley Melton	SWN Production Company, LLC	18.00%	60/167
		Richard Huntington Melton	SWN Production Company, LLC	18.00%	60/167
41)	3-B27P-17	Sandra Hall Hartner, married, dealing herein with her separate property	SWN Production Company, LLC	18.00%	45/549
		Kim Smith Vinson, married, dealing herein with her separate property	SWN Production Company, LLC	18.00%	46/756
		Thomas A. McCord II, married, dealing in his separate property	SWN Production Company, LLC	18.00%	46/750
		Dorothy Kay Clifford, married, dealing herein with her separate property	SWN Production Company, LLC	18.00%	47/119
		Chester M. McCord, married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	47/613
		Ray C. Otte Jr., married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	47/72
		Brian H. Sluyter, married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	49/510
		John C. McCord IV, married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	47/7
		Dirk E. Sluyter, married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	57/346



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John Good Jr BRK 401H  
Brooke County, West Virginia



		Anita M. Harrison, appearing individually, and as Trustee for the David Harrison Trust	SWN Production Company, LLC	18.00%	60/253
		Thomas H. Harrison, married, dealing herein with his separate property, Individually and as Trustee for the Hazel C. Harrison Testamentary Trust	SWN Production Company, LLC	18.00%	60/259
		Eric Steven Freel, single	SWN Production Company, LLC	18.00%	52/762
		Mark P. Freel, single	SWN Production Company, LLC	18.00%	60/544
		John Wesley Melton	SWN Production Company, LLC	18.00%	60/167
		Richard Huntington Melton	SWN Production Company, LLC	18.00%	60/167
42)	3-B27P-10	Martha K . Williams, a single woman	SWN Production Company, LLC	16.00%	42/600
43)	3-B27P-9	Martha K. Williams, a single woman	SWN Production Company, LLC	16.00%	42/600
44)	3-B27P-31	William Kisner, a single man	SWN Production Company, LLC	18.00%	42/452
45)	3-B27P-7	Sandra Hall Hartner, married, dealing herein with her separate property	SWN Production Company, LLC	18.00%	45/549
		Kim Smith Vinson, married, dealing herein with her separate property	SWN Production Company, LLC	18.00%	46/756
		Thomas A. McCord II, married, dealing in his separate property	SWN Production Company, LLC	18.00%	46/750

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Brooke County, West Virginia

Dorothy Kay Clifford, married, dealing herein with her separate property	SWN Production Company, LLC	18.00%	47/119
Chester M. McCord, married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	47/613
Ray C. Otte Jr., married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	47/72
Brian H. Sluyter, married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	49/510
John C. McCord IV, married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	47/7
Dirk E. Sluyter, married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	57/346
Anita M. Harrison, appearing individually, and as Trustee for the David Harrison Trust	SWN Production Company, LLC	18.00%	60/253
Thomas H. Harrison, married, dealing herein with his separate property, Individually and as Trustee for the Hazel C. Harrison Testamentary Trust	SWN Production Company, LLC	18.00%	60/259
Eric Steven Freel, single	SWN Production Company, LLC	18.00%	52/762
Mark P. Freel, single	SWN Production Company, LLC	18.00%	60/544
John Wesley Melton	SWN Production Company, LLC	18.00%	60/167
Richard Huntington Melton	SWN Production Company, LLC	18.00%	60/167

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Brooke County, West Virginia

46)	3-B27P-5	Sandra Hall Hartner, married, dealing herein with her separate property	SWN Production Company, LLC	18.00%	45/549
		Kim Smith Vinson, married, dealing herein with her separate property	SWN Production Company, LLC	18.00%	46/756
		Thomas A. McCord II, married, dealing in his separate property	SWN Production Company, LLC	18.00%	46/750
		Dorothy Kay Clifford, married, dealing herein with her separate property	SWN Production Company, LLC	18.00%	47/119
		Chester M. McCord, married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	47/613
		Ray C. Otte Jr., married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	47/72
		Brian H. Sluyter, married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	49/510
		John C. McCord IV, married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	47/7
		Dirk E. Sluyter, married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	57/346
		Anita M. Harrison, appearing individually, and as Trustee for the David Harrison Trust	SWN Production Company, LLC	18.00%	60/253
		Thomas H. Harrison, married, dealing herein with his separate property, Individually and as Trustee for the Hazel C. Harrison Testamentary Trust	SWN Production Company, LLC	18.00%	60/259
		Eric Steven Freel, single	SWN Production Company, LLC	18.00%	52/762

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John Good Jr BRK 401H  
Brooke County, West Virginia

		Mark P. Freel, single	SWN Production Company, LLC	18.00%	60/544
		John Wesley Melton	SWN Production Company, LLC	18.00%	60/167
		Richard Huntington Melton	SWN Production Company, LLC	18.00%	60/167
47)	3-B27K-188	Sandra Hall Hartner, married, dealing herein with her separate property	SWN Production Company, LLC	18.00%	45/549
		Kim Smith Vinson, married, dealing herein with her separate property	SWN Production Company, LLC	18.00%	46/756
		Thomas A. McCord II, married, dealing in his separate property	SWN Production Company, LLC	18.00%	46/750
		Dorothy Kay Clifford, married, dealing herein with her separate property	SWN Production Company, LLC	18.00%	47/119
		Chester M. McCord, married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	47/613
		Ray C. Otte Jr., married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	47/72
		Brian H. Sluyter, married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	49/510
		John C. McCord IV, married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	47/7
		Dirk E. Sluyter, married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	57/346
		Anita M. Harrison, appearing individually, and as Trustee for the David Harrison Trust	SWN Production Company, LLC	18.00%	60/253

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John Good Jr BRK 401H  
Brooke County, West Virginia

		Thomas H. Harrison, married, dealing herein with his separate property, Individually and as Trustee for the Hazel C. Harrison Testamentary Trust	SWN Production Company, LLC	18.00%	60/259
		Eric Steven Freel, single	SWN Production Company, LLC	18.00%	52/762
		Mark P. Freel, single	SWN Production Company, LLC	18.00%	60/544
		John Wesley Melton	SWN Production Company, LLC	18.00%	60/167
		Richard Huntington Melton	SWN Production Company, LLC	18.00%	60/167
48)	3-B27K-159	Beverly K. Fuchs, a widow	SWN Production Company, LLC	18.00%	39/774
49)	Buffalo Creek	State of West Virginia, Department of Commerce, Division of Natural Resources	SWN Production Company, LLC	15.00%	55/479
50)	3-B27K-160	The Wellsburg First Church of God	SWN Production Company, LLC	18.00%	43/160
51)	3-B27K-153	William L. Hukill, married, dealing in his separate property	SWN Production Company, LLC	18.00%	55/362
		Robin L. Snyder, married, dealing in her separate property	SWN Production Company, LLC	18.00%	56/25
		Stacey Hukill Wise, divorced	SWN Production Company, LLC	18.00%	55/349
52)	3-B27K-91	Thomas Hukill and Mauna Kay Hukill, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	24/730 30/480



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Brooke County, West Virginia

53)	3-B27K-92	Shelby Carrell, married, dealing in her separate property	SWN Production Company, LLC	18.00%	56/621
		Bonnie L. Lukacena, a widow	SWN Production Company, LLC	18.00%	56/607
		Julie Shey Miller, aka J. Shey Schuetzner, married, dealing in her separate property	SWN Production Company, LLC	18.00%	56/635
		Shayne Schuetzner, single	SWN Production Company, LLC	18.00%	56/628
		Shanon Schuetzner, married, dealing in his separate property	SWN Production Company, LLC	18.00%	56/614
54)	3-B27K-93	Shelby Carrell, married, dealing in her separate property	SWN Production Company, LLC	18.00%	56/621
		Bonnie L. Lukacena, a widow	SWN Production Company, LLC	18.00%	56/607
		Julie Shey Miller, aka J. Shey Schuetzner, married, dealing in her separate property	SWN Production Company, LLC	18.00%	56/635
		Shayne Schuetzner, single	SWN Production Company, LLC	18.00%	56/628
		Shanon Schuetzner, married, dealing in his separate property	SWN Production Company, LLC	18.00%	56/614
55)	3-B27K-73	Robin Johnson, f/k/a Robin Funderburk, married, dealing in her separate property	SWN Production Company, LLC	18.00%	55/543
56)	3-B27K-72	Shanon Schuetzner, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	24/443 30/480
		Bonnie Lee Lukacena and John N. Lukacena, wife and husband	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	24/450 30/480

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John Good Jr BRK 401H  
Brooke County, West Virginia

		Shey Schuetzner, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	25/177 30/480
		Shayne Schuetzner, a single man	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	25/185 30/480
		Shelby Carrell, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	26/566 30/480
57)	3-B27K-47	Shelby Carrell, married, dealing in her separate property	SWN Production Company, LLC	18.00%	56/621
		Bonnie L. Lukacena, a widow	SWN Production Company, LLC	18.00%	56/607
		Julie Shey Miller, aka J. Shey Schuetzner, married, dealing in her separate property	SWN Production Company, LLC	18.00%	56/635
		Shayne Schuetzner, single	SWN Production Company, LLC	18.00%	56/628
		Shanon Schuetzner, married, dealing in his separate property	SWN Production Company, LLC	18.00%	56/614
58)	3-B27K-48	Shelby Carrell, married, dealing in her separate property	SWN Production Company, LLC	18.00%	56/621
		Bonnie L. Lukacena, a widow	SWN Production Company, LLC	18.00%	56/607
		Julie Shey Miller, aka J. Shey Schuetzner, married, dealing in her separate property	SWN Production Company, LLC	18.00%	56/635
		Shayne Schuetzner, single	SWN Production Company, LLC	18.00%	56/628
		Shanon Schuetzner, married, dealing in his separate property	SWN Production Company, LLC	18.00%	56/614

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John Good Jr BRK 401H  
Brooke County, West Virginia

59)	3-B27K-22	Shelby Carrell, married, dealing in her separate property	SWN Production Company, LLC	18.00%	56/621
		Bonnie L. Lukacena, a widow	SWN Production Company, LLC	18.00%	56/607
		Julie Shey Miller, aka J. Shey Schuetzner, married, dealing in her separate property	SWN Production Company, LLC	18.00%	56/635
		Shayne Schuetzner, single	SWN Production Company, LLC	18.00%	56/628
		Shanon Schuetzner, married, dealing in his separate property	SWN Production Company, LLC	18.00%	56/614
60)	3-B27K-6.1	Shelby Carrell, married, dealing in her separate property	SWN Production Company, LLC	18.00%	56/621
		Bonnie L. Lukacena, a widow	SWN Production Company, LLC	18.00%	56/607
		Julie Shey Miller, aka J. Shey Schuetzner, married, dealing in her separate property	SWN Production Company, LLC	18.00%	56/635
		Shayne Schuetzner, single	SWN Production Company, LLC	18.00%	56/628
		Shanon Schuetzner, married, dealing in his separate property	SWN Production Company, LLC	18.00%	56/614
61)	3-B27K-6	Shelby Carrell, married, dealing in her separate property	SWN Production Company, LLC	18.00%	56/621
		Bonnie L. Lukacena, a widow	SWN Production Company, LLC	18.00%	56/607
		Julie Shey Miller, aka J. Shey Schuetzner, married, dealing in her separate property	SWN Production Company, LLC	18.00%	56/635

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Brooke County, West Virginia



		Shayne Schuetzner, single	SWN Production Company, LLC	18.00%	56/628
		Shanon Schuetzner, married, dealing in his separate property	SWN Production Company, LLC	18.00%	56/614
62)	3-B27K-9	Shelby Carrell, married, dealing in her separate property	SWN Production Company, LLC	18.00%	56/621
		Bonnie L. Lukacena, a widow	SWN Production Company, LLC	18.00%	56/607
		Julie Shey Miller, aka J. Shey Schuetzner, married, dealing in her separate property	SWN Production Company, LLC	18.00%	56/635
		Shayne Schuetzner, single	SWN Production Company, LLC	18.00%	56/628
		Shanon Schuetzner, married, dealing in his separate property	SWN Production Company, LLC	18.00%	56/614
63)	3-B27K-8	Shelby Carrell, married, dealing in her separate property	SWN Production Company, LLC	18.00%	56/621
		Bonnie L. Lukacena, a widow	SWN Production Company, LLC	18.00%	56/607
		Julie Shey Miller, aka J. Shey Schuetzner, married, dealing in her separate property	SWN Production Company, LLC	18.00%	56/635
		Shayne Schuetzner, single	SWN Production Company, LLC	18.00%	56/628
		Shanon Schuetzner, married, dealing in his separate property	SWN Production Company, LLC	18.00%	56/614
64)	3-B27K-7	Shelby Carrell, married, dealing in her separate property	SWN Production Company, LLC	18.00%	56/621

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John Good Jr BRK 401H  
Brooke County, West Virginia

		Bonnie L. Lukacena, a widow	SWN Production Company, LLC	18.00%	56/607
		Julie Shey Miller, aka J. Shey Schuetzner, married, dealing in her separate property	SWN Production Company, LLC	18.00%	56/635
		Shayne Schuetzner, single	SWN Production Company, LLC	18.00%	56/628
		Shanon Schuetzner, married, dealing in his separate property	SWN Production Company, LLC	18.00%	56/614
65)	3-B27K-11	Shelby Carrell, married, dealing in her separate property	SWN Production Company, LLC	18.00%	56/621
		Bonnie L. Lukacena, a widow	SWN Production Company, LLC	18.00%	56/607
		Julie Shey Miller, aka J. Shey Schuetzner, married, dealing in her separate property	SWN Production Company, LLC	18.00%	56/635
		Shayne Schuetzner, single	SWN Production Company, LLC	18.00%	56/628
		Shanon Schuetzner, married, dealing in his separate property	SWN Production Company, LLC	18.00%	56/614
66)	3-B27K-12	Shelby Carrell, married, dealing in her separate property	SWN Production Company, LLC	18.00%	56/621
		Bonnie L. Lukacena, a widow	SWN Production Company, LLC	18.00%	56/607
		Julie Shey Miller, aka J. Shey Schuetzner, married, dealing in her separate property	SWN Production Company, LLC	18.00%	56/635
		Shayne Schuetzner, single	SWN Production Company, LLC	18.00%	56/628

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Brooke County, West Virginia



		Shanon Schuetzner, married, dealing in his separate property	SWN Production Company, LLC	18.00%	56/614
67)	3-B27F-2	AMP Fund III, LP	SWN Production Company, LLC	16.00%	56/284
68)	7-W27F-233	Shelby Carrell, married, dealing in her separate property	SWN Production Company, LLC	18.00%	56/621
		Bonnie L. Lukacena, a widow	SWN Production Company, LLC	18.00%	56/607
		Julie Shey Miller, aka J. Shey Schuetzner, married, dealing in her separate property	SWN Production Company, LLC	18.00%	56/635
		Shayne Schuetzner, single	SWN Production Company, LLC	18.00%	56/628
		Shanon Schuetzner, married, dealing in his separate property	SWN Production Company, LLC	18.00%	56/614
69)	7-W27F-234	Shelby Carrell, married, dealing in her separate property	SWN Production Company, LLC	18.00%	56/621
		Bonnie L. Lukacena, a widow	SWN Production Company, LLC	18.00%	56/607
		Julie Shey Miller, aka J. Shey Schuetzner, married, dealing in her separate property	SWN Production Company, LLC	18.00%	56/635
		Shayne Schuetzner, single	SWN Production Company, LLC	18.00%	56/628
		Shanon Schuetzner, married, dealing in his separate property	SWN Production Company, LLC	18.00%	56/614
70)	7-W27F-227	Sue A. Griffith, single	SWN Production Company, LLC	18.00%	57/334



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**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  
John Good Jr BRK 401H  
Brooke County, West Virginia

71)	7-W27F-223	Steven A. Buck, married, dealing in his separate property	SWN Production Company, LLC	18.00%	56/694
72)	7-W27F-192	Amy M. Ewusiak, single	SWN Production Company, LLC	18.00%	57/562
		Joseph Paul Pettini, married, dealing in his separate property	SWN Production Company, LLC	18.00%	57/568
73	7-W27F-193	Risé L. Katnik, single	SWN Production Company, LLC	18.00%	57/658
74)	7-W27F-194	Rise' L. Katnik, single	SWN Production Company, LLC	18.00%	57/658
75)	7-W27F-164	Alfred T. Marino, single	SWN Production Company, LLC	17.00%	58/484
76)	7-W27F-161	Alfred T. Marino, single	SWN Production Company, LLC	17.00%	58/484
77)	7-W27F-160	Daniel L. Johnston, a/k/a Danny Johnston, married, dealing in his separate property	SWN Production Company, LLC	18.00%	59/90
78)	7-W27F-154	Business Development Corporation of the Northern Panhandle, Inc.	SWN Production Company, LLC	18.00%	59/352

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SWN Production Company, LLC  
179 Innovation Drive  
Jane Lew, WV 26378  
Tel: 304 884 1810  
Fax: 304 471 2497  
www.swn.com

January 7, 2021

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

**RE:** SWN's proposed New Well: John Good Jr. BRK 401H in Brooke County, West Virginia, Drilling under Brady's Ridge Road, Pierce Run Road, Bethany Pike, McAdoo Ridge Road, Route 67/1, Irish Est, Green Acres, Green Run Road, Walnut St, Lower Commerce St Exd, Buffalo Road, Susquehanna Road, Navajo Road, SR 2, and 5<sup>th</sup> Street.

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 Brady's Ridge Road, Pierce Run Road, Bethany Pike, McAdoo Ridge Road, Route 67/1, Irish Est, Green Acres, Green Run Road, Walnut St, Lower Commerce St Exd., Buffalo Road, Susquehanna Road, Navajo Road, SR 2, and 5<sup>th</sup> Street. 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,

John D. Startz, CPL  
Technical Expert Landman  
SWN Production Company, LLC  
PO Box 12359  
Spring, TX 77391-2359

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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: 1/14

API No. 47- 009 -  
Operator's Well No. John Good Jr. BRK 401H  
Well Pad Name: John Good Jr. BRK

**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>535695.54</u>
County:	<u>009- Brooke</u>		Northing:	<u>4452679.11</u>
District:	<u>Buffalo</u>	Public Road Access:	<u>McAdoo Ridge Road</u>	
Quadrangle:	<u>Bethany &amp; Steubenville East</u>	Generally used farm name:	<u>John Good Jr.</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  <input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED  <input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED  <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 checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION  <input checked="" type="checkbox"/> 5. PUBLIC NOTICE  <input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		<b>OOG OFFICE USE ONLY</b>  <input type="checkbox"/> RECEIVED/ NOT REQUIRED  <input type="checkbox"/> RECEIVED  <input type="checkbox"/> RECEIVED/ NOT REQUIRED  <input type="checkbox"/> RECEIVED  <input type="checkbox"/> RECEIVED  <input type="checkbox"/> RECEIVED
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**Required Attachments:**

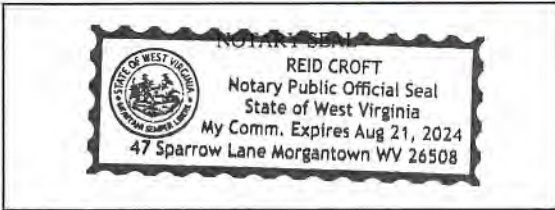
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication 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.

**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>

*Brittany Woody*



Subscribed and sworn before me this 4<sup>th</sup> day of January, 2021.

Reid Croft Notary Public

My Commission Expires August 21, 2024

**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](mailto:depprivacyofficer@wv.gov).

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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: 1/14 Date Permit Application Filed: 1/14

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: John P. Good Jr. Irrevocable Trust  
 Address: 1204 McAdoo Ridge Road  
Wellsburg, WV 26070

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: Consolidation Coal Company Attn: Casey Saunders  
 Address: 1000 Consol Energy Drive  
Canonsburg, PA 15317

COAL OPERATOR  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

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

Name: None  
Address: \_\_\_\_\_

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

\*Please attach additional forms if necessary

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WW-6A  
(9-13)

API NO. 47- 009 -  
OPERATOR WELL NO. John Good Jr. BRK401H  
Well Pad Name: John Good Jr. BRK

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: 1/14 Date Permit Application Filed: 1/14

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: Starvaggi Industries, Inc.

Address: 401 Pennsylvania Ave

Weirton, WV 26062

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: \_\_\_\_\_

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WV Department of  
Environmental Protection

\*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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

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**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

WV Department of Environmental Protection

WW-6A  
(8-13)

API NO. 47-009 -  
OPERATOR WELL NO. John Good Jr. BRK 401H  
Well Pad Name: John Good Jr. BRK

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 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

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

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WV Department of  
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**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.

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Environmental Protection

WW-6A  
(8-13)

4700900327  
API NO. 47-009 -  
OPERATOR WELL NO. John Good Jr. BRK 401H  
Well Pad Name: John Good Jr. BRK

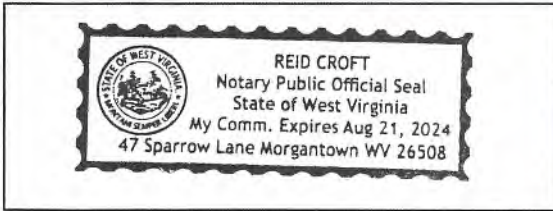
**Notice is hereby given by:**

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

**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](mailto:depprivacyofficer@wv.gov).



Subscribed and sworn before me this 4<sup>th</sup> day of Jan, 2021.

*Reid Croft* Notary Public

My Commission Expires August 21, 2024

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Environmental Protection



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:** 5/13/2020 **Date of Planned Entry:** 5/20/2020

**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: John P. Good Jr. Irrevocable Trust ✓  
 Address: 1204 McAdoo Ridge Road  
 Wellsburg, WV 26070  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_

COAL OWNER OR LESSEE

Name: Consolidation Coal Company Attn: Casey Saunders ✓  
 Address: 1000 Consol Energy Drive  
 Canonsburg, PA 15317

MINERAL OWNER(s)

Name: John P. Good Jr. Irrevocable Trust ✓  
 Address: 1204 McAdoo Ridge Road  
 Wellsburg, WV 26070

\*please attach additional forms if necessary

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WV Department of  
Environmental Protection

**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	Approx. Latitude & Longitude: 40.223798, -80.580551
County: Brooke	Public Road Access: McAdoo Ridge Road
District: Buffalo	Watershed: Middle Buffalo Creek
Quadrangle: Belhary	Generally used farm name: John Good Jr.

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 57<sup>th</sup> 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](http://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](mailto: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:** 5/13/2020      **Date of Planned Entry:** 5/20/2020

**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: Starvaggi Industries, Inc.  
 Address: 401 Pennsylvania Avenue  
Weirton, WV 26062  
 \_\_\_\_\_  
 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: Brooke  
 District: Buffalo  
 Quadrangle: Bethany

Approx. Latitude & Longitude: 40.223798, -80.580551  
 Public Road Access: McAdoo Ridge Road  
 Watershed: Middle Buffalo Creek  
 Generally used farm name: John Good Jr.

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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 57<sup>th</sup> 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](http://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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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](mailto:depprivacyofficer@wv.gov).

**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:** 01/04/2021 **Date Permit Application Filed:** 1/14

**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: John P. Good Jr. Irrevocable Trust  
Address: 1204 McAdoo Ridge Road  
Wellsburg, WV 26070

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

**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: 535,695.54  
County: Brooke Northing: 4,452,679.11  
District: Buffalo Public Road Access: McAdoo Ridge Road  
Quadrangle: Bethany WV & Steubenville East OH Generally used farm name: John P. Good Jr BRK  
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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

Well Operator: SWN Production Company, LLC  
Address: 1300 Fort Pierpont Dr., Suite 201  
Morgantown, WV 26508  
Telephone: 304-231-8329  
Email: Reid\_Croft@SWN.com  
Facsimile: \_\_\_\_\_

Authorized Representative: Reid Croft  
Address: 1300 Fort Pierpont Dr., Suite 201  
Morgantown, WV 26508  
Telephone: 304-231-8329  
Email: Reid\_Croft@SWN.com  
Facsimile: \_\_\_\_\_

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**Oil and Gas Privacy Notice:**

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

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

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

**Date of Notice:** 01/04/2021      **Date Permit Application Filed:** 1/19

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

- CERTIFIED MAIL                       HAND  
RETURN RECEIPT REQUESTED              DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

**Notice is hereby provided to the SURFACE OWNER(s)**  
(at the address listed in the records of the sheriff at the time of notice):

Name: <u>John P. Good Jr. Irrevocable Trust</u>	Name: _____
Address: <u>1204 McAdoo Ridge Road</u> <u>Wellsburg, WV 26070</u>	Address: _____

**Notice is hereby given:**

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

State: <u>West Virginia</u>	UTM NAD 83    Easting: <u>535,695.54</u>
County: <u>Brooke</u>	Northing: <u>4,452,679.11</u>
District: <u>Buffalo</u>	Public Road Access: <u>McAdoo Ridge Road</u>
Quadrangle: <u>Bethany WV &amp; Steubenville East OH</u>	Generally used farm name: <u>John Good Jr BRK</u>
Watershed: <u>Upper Ohio South</u>	

**This Notice Shall Include:**

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Well Operator: <u>SWN Production Company, LLC</u>	Address: <u>1300 Fort Pierpont Dr., Suite 201</u>	<b>RECEIVED</b> <b>Office of Oil and Gas</b> <b>JAN 15 2021</b> <b>WV Department of</b> <b>Environmental Protection</b>
Telephone: <u>304-231-8329</u>	<u>Morgantown, WV 26508</u>	
Email: <u>Reid_Croft@SWN.com</u>	Facsimile: _____	

**Oil and Gas Privacy Notice:**

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

**Division of Highways**

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

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

December 17, 2020

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

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

Subject: DOH Permit for the John Good Jr Pad, Brooke County  
John Good Jr BRK 401H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2011-0595 which has been issued to Southwestern Energy for access to the State Road for a well site located off Brooke County Route 24 SLS.

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

Very Truly Yours,

Gary K. Clayton, P.E.  
Regional Maintenance Engineer  
Central Office O&G Coordinator

Cc: Brittany Woody  
Southwestern Energy  
CH, OM, D-6  
File

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## Attachment VI Frac Additives

4700900327

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-REAC (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, Exoalkylated 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, Exoalkylated	68551-12-2
		Oleic Acid Diethanolamide	93-83-4
Plexslick 953	Friction Reducer	Ammonium Chloride	12125-02-9
		Petroleum Distillate	64742-47-8
		Sodium Chloride	7647-14-5
		Ammonium Chloride	12125-02-9
Plexslick 957	Friction Reducer	N,N-bis (2-hydroxyethyl) oleamide	93-83-4
		Petroleum Distillate	64742-47-8
		Ammonium Chloride	12125-02-9
		Oleic Acid Diethanolamide	93-83-4
		Alcohols, C12-16, Exoalkylated	68551-12-2
WFRA-2000 (U.S. Well Services)	Anionic Friction Reducer	Water	7732-15-5
		Hydrotreated light distillate (petroleum)	64742-47-8
Plexaid 655 NM	Scale Inhibitor	Propenoic acid, polymer with propenamide	9003-06-9
		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 PS50A	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
		Poly (oxy-1,2-ethanediyl) alpha.-tridecyl-omega.-hydroxy-, branched	69011-36-5
Legend LD-7750W	Scale Control	Methanol	67-56-1
		Phosphonic Acid Salt	Proprietary
MC MX 8-4743	Specialty Product	Sodium Nitrate	7631-99-4

As of 1/16/2020

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JAN 15 2021  
WV Department of Environmental Protection



Southwestern Energy

SOUTHWESTERN ENERGY  
179 Chesapeake Drive  
Jane Lew, WV 26378  
(304) 884-1610

# SOUTHWESTERN ENERGY AS-BUILT PLANS FOR THE JOHN GOOD JR. BRK PAD "A" BROOKE COUNTY, WV JANUARY 2016

JANUARY 2016

BROOKE COUNTY, WV

JOHN GOOD JR. BRK PAD "A"

AS-BUILT PLANS FOR THE

SOUTHWESTERN ENERGY

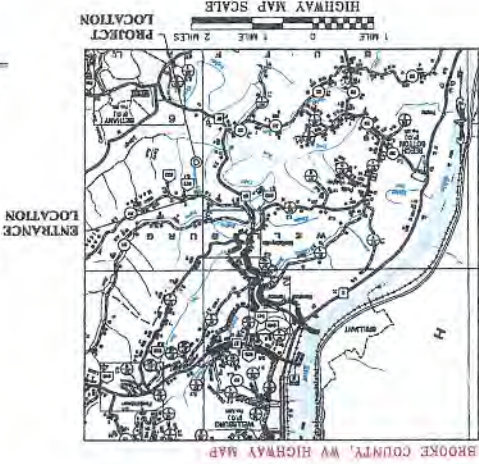
**DISTURBANCE SUMMARY**

Total Disturbance (Acres)	Access Road	Well Pad	Total Disturbance
13.28	0.28	0.28	13.72



**WV DEP 006  
ACCEPTED AS-BUILT**

*7/31/2020*



**PROJECT COORDINATES**

AS-BUILT ACCESS ROAD BEGINNING  
WV83-N Longitude = N 40.23183°  
UTM 83-17 Northing = 14011429.870 N  
UTM 83-17 Easting = 1757011.318 E

AS-BUILT CENTER OF WELL PAD  
WV83-N Longitude = N 40.23184°  
WV83-N Longitude = W 80.58722°  
UTM 83-17 Northing = 14008558.652 N  
UTM 83-17 Easting = 1757491.564 E

EXISTING WELL SH: A7M 47-009-00124  
EXISTING WELL SH: A7M 47-009-00113

**JOHN GOOD JR BRK PAD "A" WELLS**

CONTRACTOR SHALL NOTIFY THE ONE-CALL SYSTEM OF THE INTENDED EXCAVATION OR DEMOLITION NOT LESS THAN FORTY-EIGHT (48) HOURS, EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS, PRIOR TO THE BEGINNING OF SUCH WORK.

ONE CALL UTILITY SYSTEM CONTACT INFO

REVISION NUMBER	REVISED SHEETS	BY	DATE	DESCRIPTION
1	1, 8, 13 &	JFW	2/8/17	ADRESSED AS-BUILT COMMENTS PER WDEP OFFICE OF OIL & GAS; ADDED WELL PAD BERM & SWMP LABELS, NOTES & DETAILS; ADDED DISTURBANCE SUMMARY.

- PROJECT NOTES**
- PORTIONS OF THE ORIGINAL AS-BUILT SURVEY OF THIS SITE PROVIDED BY GOOD, BERTCHICK & ASSOCIATES, INC. (G&A) TO CHESSNAKE APPLICABLE, LLC IN JUNE 2012 HAVE BEEN INCORPORATED INTO THESE PLANS. THE BERM AS-BUILT SURVEY WAS PROVIDED TO THRASHER BY SOUTHWESTERN ENERGY IN JANUARY 2016 AND INCLUDED CONTOURS, ROAD EDGES, WELL HEAD LOCATION, EROSION AND SEDIMENT PROTECTION EQUIPMENT, EXISTING ROAD EDGES, WELL PAD EDGE, GAS PRODUCTION EQUIPMENT ABOVE GROUND PILING, STORM WATER FEATURES, ETC. WERE VERIFIED AND AS-BUILT BY THRASHER IN DECEMBER 2015 AND JANUARY 2016.
  - THE COORDINATE SYSTEM USED FOR THIS PROJECT IS UTM WITH NAD83 DATUM, ZONE 17, US FOOT, CENTRAL MERIDIAN 816W.

**SHEET INDEX**

SHEET	TITLE SHEET
1	EVALUATION ROUTING PREVAILING WINDS
2-3	AS-BUILT OVERVIEW
4	AS-BUILT ACCESS ROAD PLAN & PROFILE
5-7	AS-BUILT WELL PAD PLAN
8	AS-BUILT WELL PAD PORTALS & SECTIONS
9	RECLAMATION PLAN
10	RECLAMATION GENERAL NOTES
11	RECLAMATION DETAILS
12	RECLAMATION GENERAL NOTES
13	DETAILS

**THRASHER**

THE THRASHER GROUP, INC.  
800 WHITE OAKS BOULEVARD - BRIDGEPORT, WV 26330  
PHONE (304) 624-4108 • FAX (304) 624-7831

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RECEIVED  
Office of Oil and Gas  
JAN 15 2021  
WV Department of Environmental Protection

BROOKE COUNTY, WV HIGHWAY MAP



ENTRANCE LOCATION

# SOUTHWESTERN ENERGY

## AS-BUILT PLANS FOR THE

# JOHN GOOD JR. BRK PAD "A"

## BROOKE COUNTY, WV

### JANUARY 2016



SOUTHWESTERN ENERGY  
179 Chesapeake Drive  
Jane Lew, WV 26378  
(304) 884-1610

**SHEET INDEX**

SHEET	DESCRIPTION
1	TITLE SHEET
2-3	EVACUATION ROUTE/PREVAILING WINDS
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5-7	AS-BUILT ACCESS ROAD PLAN & PROFILE
8	AS-BUILT WELL PAD PLAN
9	AS-BUILT WELL PAD PROFILE & SECTIONS
10	RECLAMATION PLAN
11	RECLAMATION GENERAL NOTES
12	RECLAMATION DETAILS
13	DETAILS

**PROJECT COORDINATES**

**AS-BUILT ACCESS ROAD BEGINNING**  
WV83-N Latitude = N 40.231833°  
WV83-N Longitude = W 80.582250°  
UTM 83-17 Northing = 14611429.470 ft.  
UTM 83-17 Easting = 1757011.518 ft.

**DISTURBANCE SUMMARY**

Disturbance Location	Total Disturbance (Acres)
Access Road	13.28
Well Pad	0.63
<b>Total Disturbance</b>	<b>13.91</b>

**AS-BUILT CENTER OF WELL PAD**  
WV83-N Latitude = N 40.223944°  
WV83-N Longitude = W 80.580722°  
UTM 83-17 Northing = 14608558.652 ft.  
UTM 83-17 Easting = 1757451.564 ft.

**JOHN GOOD JR BRK PAD "A" WELLS**

EXISTING WELL 5H: API# 47-009-00124  
EXISTING WELL 8H: API# 47-009-00113

STUBENVILLE EAST OHIO QUAD MAP



ENTRANCE LOCATION

PROJECT LOCATION



**PROJECT NOTES**

- PORTIONS OF THE ORIGINAL AS-BUILT SURVEY OF THIS SITE PROVIDED BY BOORD, BENCHECK & ASSOCIATES, INC (BBA) TO CHESAPEAKE APPALACHIA, LLC. IN JUNE 2012 HAVE BEEN INCORPORATED INTO THESE PLANS. THE BBA AS-BUILT SURVEY WAS PROVIDED TO THRASHER BY SOUTHWESTERN ENERGY IN JANUARY 2016 AND INCLUDED CONTOURS, ROAD EDGES, WELL HEAD LOCATIONS, EROSION AND SEDIMENT CONTROLS, ETC.
- EXISTING ROAD EDGES, WELL PAD EDGE, GAS PRODUCTION EQUIPMENT, ABOVE GROUND PIPING, STORM WATER FEATURES, ETC. WERE VERIFIED AND AS-BUILT BY THRASHER IN DECEMBER 2015 AND JANUARY 2016.
- THE COORDINATE SYSTEM USED FOR THIS PROJECT IS UTM WITH NAD83 DATUM, ZONE 17, US FOOT; CENTRAL MERIDIAN 81dW.

*C. J. ...*  
1.11.21



**WVDEP OOG  
ACCEPTED AS-BUILT**

*VJ* 7/31/2020

REVISION NUMBER	REVISED SHEETS	BY	DATE	DESCRIPTION
1	1, 8, & 13	JFW	2/8/17	ADDRESSED AS-BUILT COMMENTS PER WVDEP OFFICE OF OIL & GAS: ADDED WELL PAD BERM & SUMP LABELS, NOTES & DETAILS. ADDED DISTURBANCE SUMMARY.

**ONE CALL UTILITY SYSTEM CONTACT INFO**



CONTRACTOR SHALL NOTIFY THE ONE-CALL SYSTEM OF THE INTENDED EXCAVATION OR DEMOLITION NOT LESS THAN FORTY-EIGHT (48) HOURS, EXCLUDING SATURDAYS, SUNDAYS AND LEGAL FEDERAL OR STATE HOLIDAYS, NOR MORE THAN TEN (10) WORK DAYS PRIOR TO THE BEGINNING OF SUCH WORK.

**THRASHER**  
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600 WHITE OAKS BOULEVARD - BRIDGEPORT, WV 26330  
PHONE (304) 624-4108 • FAX (304) 624-7831

CADD FILE: B:\000-5700-1-000-0000-00 BRK-COUNTY\STRM-1-Drawings\0700-Cover-As-Built.dwg PLOT DATE/TIME: 2/9/2017 11:41 PM USER: jason.t.wells

**PLAN LEGEND**

- PRE-CONSTRUCTION CONTOURS
- BBA AS-BUILT 'F' CONTOURS
- BBA AS-BUILT PROJECT BOUNDARY
- BBA AS-BUILT TOPSOIL STOCKPILE EDGE
- TTG AS-BUILT ROAD EDGE
- TTG AS-BUILT EDGE OF PAVEMENT
- TTG AS-BUILT PAD EDGE
- TTG AS-BUILT FENCE
- X AS-BUILT FENCE
- TTG AS-BUILT ROCK LINED DITCH
- TTG AS-BUILT VEGETATED DITCH
- TTG AS-BUILT CULVERT
- TTG AS-BUILT CONTAINMENT AREA
- TTG AS-BUILT PRODUCTION EQUIPMENT
- TTG AS-BUILT GAS LINE
- E AS-BUILT OVERHEAD UTILITY LINE AND POLE
- AS-BUILT
- BBA AS-BUILT TEXT

**JOHN GOOD JR BRK PAD "A" WELLS**

WELL NAME	API NUMBER	CELLAR DIAMETER	CELLAR DEPTH	CELLAR MATERIAL
AS-BUILT 5H	47-009-00124	8-FT	8-FT	CMP*
AS-BUILT 8H	47-009-00113	8-FT	8-FT	CMP*
PROPOSED WELL 6H	-	8-FT	8-FT	CMP*
PROPOSED WELL 206H	-	8-FT	8-FT	CMP*
PROPOSED WELL 406H	-	8-FT	8-FT	CMP*

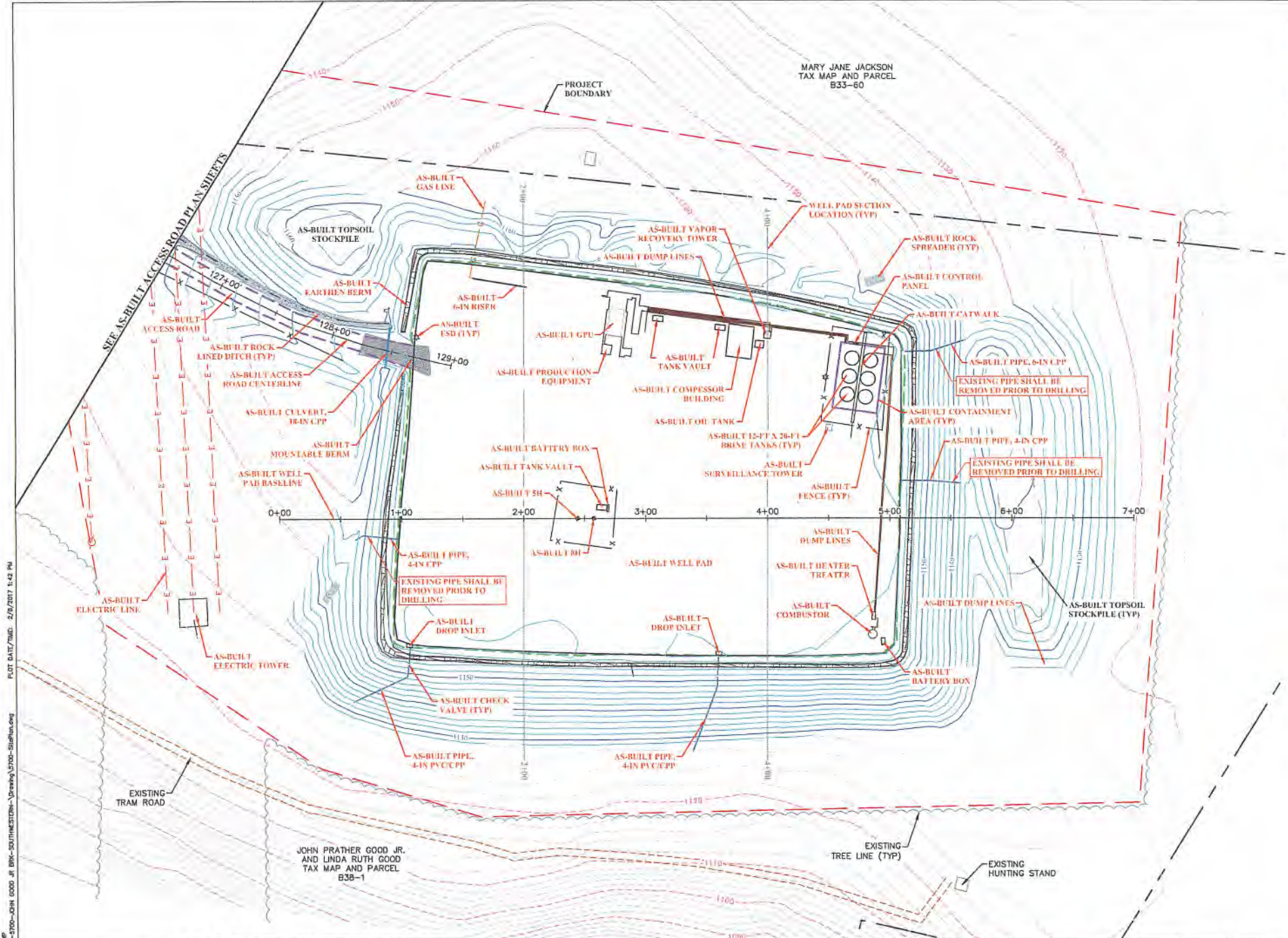
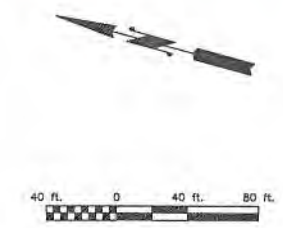
**NOTES:**  
 \*CMP = CORRUGATED METAL PIPE

**NOTES**

1. ALL WELL PAD OUTLET PIPES SHOWN THAT ARE NOT CURRENTLY CONNECTED TO AN INLET AND CHECK VALVE SYSTEM SHALL BE REMOVED PRIOR TO DRILLING TO PREVENT DISCHARGE FROM THE WELL PAD DURING DRILLING OPERATIONS. IN AREAS WHERE THE PIPES ARE REMOVED, EARTHWORK EXCAVATION AND COMPACTION FOR THE PERIMETER BERM RE-CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE GENERAL NOTES AND DETAILS CONTAINED WITHIN THESE PLANS. CONTRACTOR SHALL SEED AND MULCH DISTURBED AREAS AS SOON AS PRACTICABLE IN ACCORDANCE WITH THE APPLICABLE GENERAL NOTES AND DETAILS CONTAINED WITHIN THESE PLANS.

**WVDEP OOG  
 ACCEPTED AS-BUILT**

*WJ* 7/31/2020



PLOT DATE/TIME: 2/2/2017 11:42 PM  
 LAYOUT FILE: R:\V500-5700-00H\_GOOD\_JR\_BRK-SOUTHWESTERN-Venergy\5700-Sig\Plan.dwg  
 LAYOUT FILE: 06-00

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NO.	BY	DATE	DESCRIPTION
1	JFW	02/08/17	ADDED WELL PAD BERM AND OUTLET PIPE LABELS AND NOTES



SCALE:	DATE:
DRAWN:	DATE:
CHECKED:	DATE:
APPROVED:	DATE:
SURVEY DATE:	DATE:
SURVEY BY:	
FIELD BOOK No:	

**THRASHER**  
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PHASE No.	
CONTRACT No.	
PROJECT No.	101-050-5700

SOUTHWESTERN ENERGY  
 AS-BUILT PLANS FOR THE  
 JOHN GOOD JR BRK PAD "A"  
 BROOKE COUNTY, WV  
 AS-BUILT WELL PAD PLAN

SHEET No.  
**8**