

west virginia department of environmental protection

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

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

Friday, December 11, 2020 WELL WORK PERMIT Horizontal 6A / New Drill

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

Permit approval for JOHN GOOD JR BRK 601H Re: 47-009-00324-00-00

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 601H Farm Name: JOHN PRATHER GOOD JR IRF

U.S. WELL NUMBER: 47-009-00324-00-00

Horizontal 6A New Drill Date Issued: 12/11/2020

API Number:	
API Number:	

PERMIT CONDITIONS

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

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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.

WW-6B (04/15) API NO. 47-009

OPERATOR WELL NO. John Good Jr. BRK 601H

Well Pad Name: John Good Jr. BRK

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

1) Well Operator: SWN F	Production Co., LLC	494512924	009- Brooke	3-Buffalo	247- Bethany 620
1) 1100 0 0 0 1000		Operator ID	County	District	Quadrangle
2) Operator's Well Number	John Good Jr. BR	K 601H Well P	ad Name: John	Good Jr. I	BRK
3) Farm Name/Surface Ow	ner: John Prather Good Jr. Irrevol	Public Ro	oad Access: McA	doo Ridg	e Road
4) Elevation, current groun	d: 1154' E	levation, propose	d post-construction	on: 1154'	
5) Well Type (a) Gas Other	X Oil _	Un	derground Storag	e	
(b)If Gas	Shallow X	Deep	-		
	Horizontal X	-		5-	100
6) Existing Pad: Yes or No	Yes			L' /	
7) Proposed Target Format: Target Formation- Marcellus, Up-Di	ion(s), Depth(s). Anticip well to the North, Target Top	cipated Thickness TVD- 5837', Target Base	and Expected Pr TVD- 5888', Anticipated T	ressure(s): Thickness- 51',	/ 6 - / J - Z c Associated Pressure- 3827
8) Proposed Total Vertical	Depth: 5872' √				
9) Formation at Total Verti		S			
10) Proposed Total Measur	red Depth: 14086.52	2 /			
11) Proposed Horizontal Le	eg Length: 21109' -	/			
12) Approximate Fresh Wa		326' /			and the second
13) Method to Determine F	resh Water Depths:	Logs on pad, Jo	hn Good Jr. BRI	K 5H API	47-009-00124
14) Approximate Saltwater					
15) Approximate Coal Sear	/				
16) Approximate Depth to	Possible Void (coal m	ine, karst, other):	None that we a	are aware	of.
17) Does Proposed well loo directly overlying or adjace	cation contain coal sea	ms	No		Office of Oil and Gas
(a) If Yes, provide Mine I	Info: Name:				OCT 27 2020
	Depth:				
	Seam:			En	WAY Department of vironmental Protection
	Owner:				-90[]

WW-6B (04/15) APINO. 47-009 - 00324 EXPHUA

OPERATOR WELL NO. John Good Jr. BRK 601H
Well Pad Name: John Good Jr. BRK

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (Ib/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	125'	125'	CTS
Fresh Water	13 3/8"	New	H-40	48#	380'	380'	375 sx/CTS
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	1660'	1660' ✓	647 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	21,109'	21,109'	Load 720sx/Tail 3565xx/ 100 Inside trace
Tubing							
Liners							

C. BRO 10-15-20

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	30"	0.25	2120	81	Class A	1.20/30% 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

Sizes:	Om Renan
Depths Set:	Office of Cit and and a 27 2021

WW-6B	
(10/14)	

API NO. 47009	
OPERATOR WELL NO. John Good Jr. BRK 601H	
Well Pad Name: John Good Jr. BRK	

19	Describe	proposed	well v	work.	including	the drilling	g and p	lugging	back of a	ny pilot hole:
•	, 20001100	proposed	*****	,, ,	morading	5 0110 01111111	5 mm p	******	oudix or u	., p

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.)

* Make Sure Freshwater and Coal Stratus are not co-mingled with Saltwater * FW ~ 324' }
SW~448' \$

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

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

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 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 ***

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.

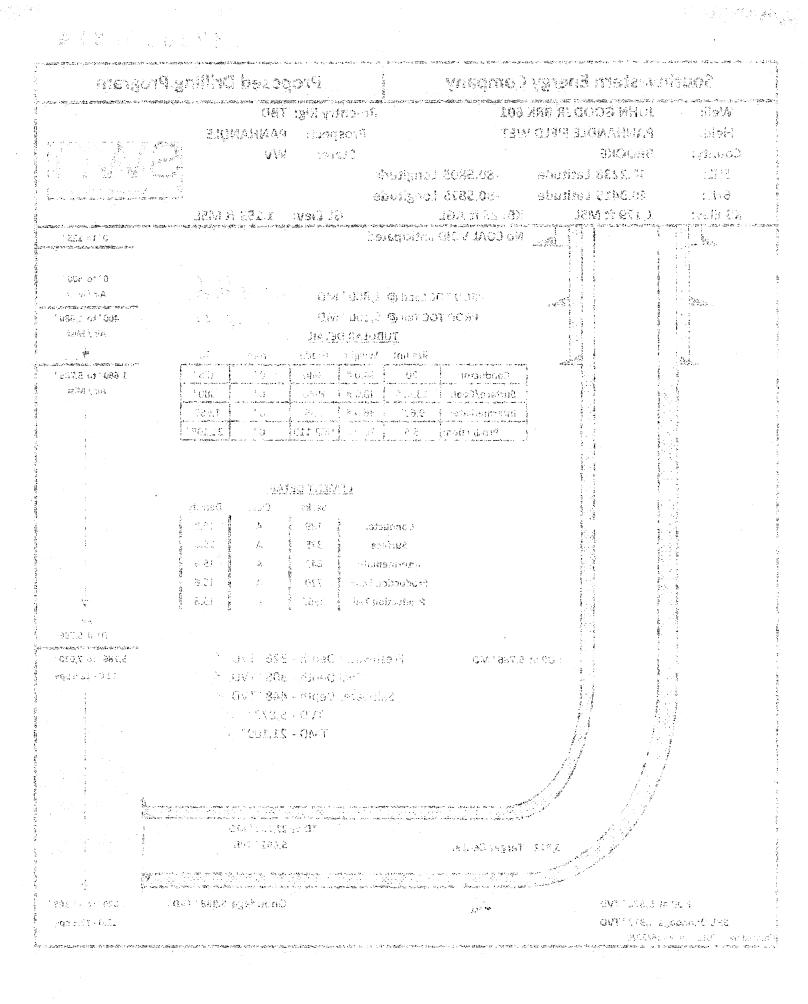
Office of Cill and Gas

^{*}Note: Attach additional sheets as needed.

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

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	REPORT WEEPSER	81	' MEXIMEL	• :			

Southwestern Energy Company **Proposed Drilling Program** Well: JOHN GOOD JR BRK 601 Re-entry Rig: TBD Field: PANHANDLE FIELD WET Prospect: PANHANDLE County: BROOKE WV State: SHL: 40.2238 Latitude -80.5805 Longitude 40.3419 Latitude BHL: -80.5875 Longitude 1,179 ft MSL KB Elev: KB: 26 ft AGL GL Elev: 1,153 ft MSL No COAL VOID anticipated 0' to 125' 0 ' to 400 ' Air / Mist PROD TOC Lead @ 1,880 ' MD PROD TOC Tail @ 5,100 ' MD 400 'to 1,680 ' Air / Mist **TUBULAR DETAIL** Size (in) Weight Grade From To Conductor: 20 94.0 # H-40 125 1,680 ' to 5,786 ' Air / Mist 380' Surface/Coal: 13.375 48.0 # H-40 0' 01 1,660 Intermediate: 9.625 36.0 # J-55 Production: 5.5 20.0# HCP-110 0' 21.109 CEMENT DETAIL Density Sacks Class Conductor 189 19.3 15.6 Surface 375 A 15.6 Intermediate 647 A Production Lead A 15.6 720 3565 15.6 **Production Tail** Air TD at 5,786 ' Freshwater Depth - 326 'TVD 5,786 ' to 7,020 ' KOP at 5,786 'MD Coal Depth - 308 'TVD 12.0 - 12.5 ppg Saltwater Depth - 448 'TVD TVD - 5,872 ' TMD - 21,109 ' V TD at 21,109 ' MD Environmental Enl of 5,691 'TVD 5,872 ' Target Center 7,020 to 21,109 EOB at 5,872 'TVD Onondaga 5,888 'TVD 12.0 - 12.5 ppg SHL Onondaga 5,917 'TVD Created by: <NULL> on 09/16/2020



John Good Jr. BRK 601H AOR

JOHN COOG 311 DINK 0021171011						
Operator	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones Not Perforated
SWN PRODUCTION COMPANY, LLC	ACTIVE	40.223907	-80.580720		MARCELLUS	
SWN PRODUCTION COMPANY, LLC	ACTIVE	40.223944	-80.580734		MARCELLUS	
SWN PRODUCTION COMPANY, LLC	ACTIVE	40.223796	-80.580680		MARCELLUS	
SWN PRODUCTION COMPANY, LLC	ACTIVE	40.223811	-80.580611		MARCELLUS	
SWN PRODUCTION COMPANY, LLC	ACTIVE	40.223833	-80.580693		MARCELLUS	
SWN PRODUCTION COMPANY, LLC	ACTIVE	40.223848	-80.580624		MARCELLUS	
SWN PRODUCTION COMPANY, LLC	ACTIVE	40.223870	-80.580707		MARCELLUS	
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Office of Cil and Gas

OCT 27 2020

Environmental Protection

API Number 47 - 009 - 00324

Operator's Well No. John Good Jr. BRK 601H

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 V 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 Was	tes;
Land Application	
	Permit Number Various Approved Facilities
Reuse (at API Number Ather	m WW-9 for disposal location)
Other (Explain recovery and s	
	/ · · ·
Will closed loop system be used? If so, describe: Yes- 8	See Altachment 3A
Drilling medium anticipated for this well (vertical and ho	inizontal)? Air, freshwater, oil based, etc. Arenius KOP Just Art with a SOBM from KOP 10 TO
-If oil based, what type? Synthetic, petroleum, of	
Additives to be used in drilling medium? Attachment 3B	
Drill cuttings disposal method? Leave in pit, landfill, ten	noved offsite, etc. landfill
-If left in pit and plan to solidify what medium v	vill be used? (cement, lime, sawdust)
Apex Sanitary Landtill Uo-U8438, Brooke C Permittee shall provide written notice to the Office of Oil	with SWF-1032, Short Creek SWF-1034, Carbon Limestone MSWL018781, Wetzel County 1021 O SVVF-TUT3, and Cras of any load of drill cuttings or associated waste rejected at any ovided within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the W provisions of the permit are enforceable by law. Violati law or regulation can lead to enforcement action. I certify under penalty of law that I have pers application form and all attachments thereto and that,	s and conditions of the GENERAL WATER POLLUTION PERMIT issued lest Virginia Department of Environmental Protection. I understand that the ions of any term or condition of the general permit and/or other applicable conally examined and am familiar with the information submitted on this based on my inquiry of those individuals immediately responsible for m is true, accurate, and complete. I am aware that there are significant possibility of fine or imprisonment. OFFICIAL SEAL OTARY PUBLIC STATE OF WEST WIRGINA.
Company Official Signature Outtoo	STATE OF WEST VIRIGINA JESSICA L. VANGIDER SYMP Production Company, LLC
Company Official (Typed Name) Brittany Woody	1300 Fort Perport Dr., Suile 201, Morparium, WV 26508 My Commission Expires July 24, 2025
Company Official Title Senior Regulatory Analyst	
215+	Office of Oil and
Subscribed and sworn before me this 313 day	of August 20 20 OCT 27 20
Jessica L. Vand	NOTALL I
My commission expires 7-24-25	WV Departmen Environmental Proj



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

LIQUIDS DRILLING (FRESHWATER, BRINE, SOBM)

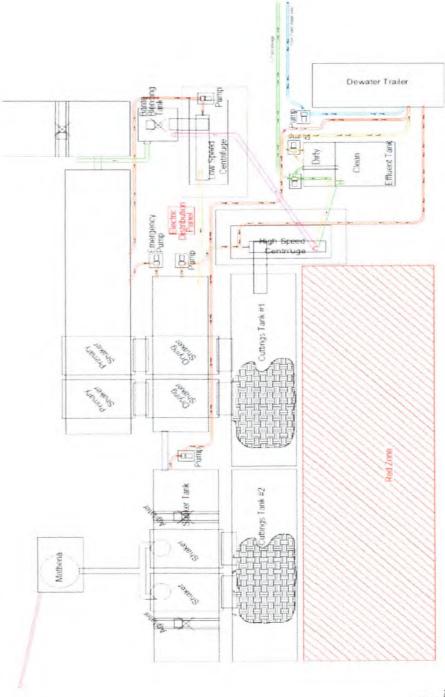
When drilling is converted to liquids drilling, the shale gas separator and associated shaker tank are bypassed, and the liquids system is processed over the primary and drying shaker systems. Cuttings drop into the cuttings tank for additional processing. Any recoverable associated liquids attached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

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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

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

Seed Mixture: SWN Production Org	anic 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		Apply @ 200lbs per acre
April 16th- Oct. 14th		Oct. 15th- April 15th
Organic Fertilizer @ 200lbs per Acre		Pelletized Lime @ 2 Tons per Acre

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

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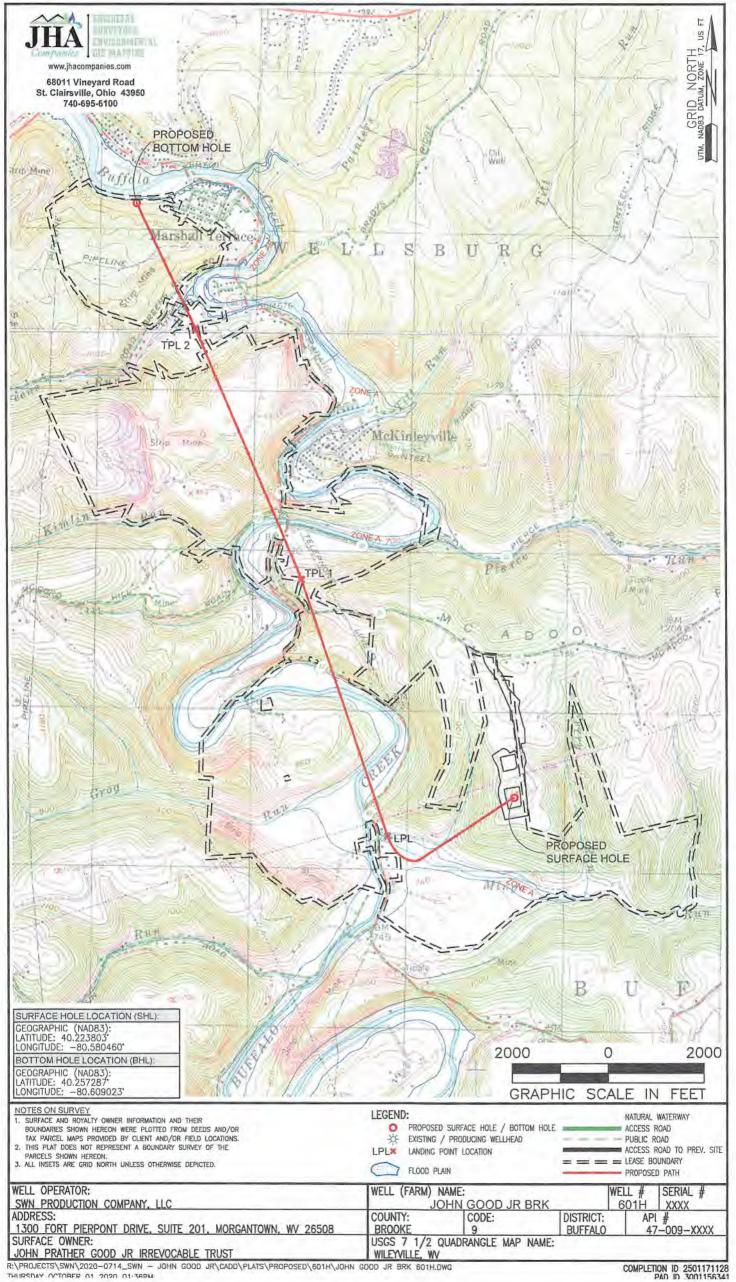
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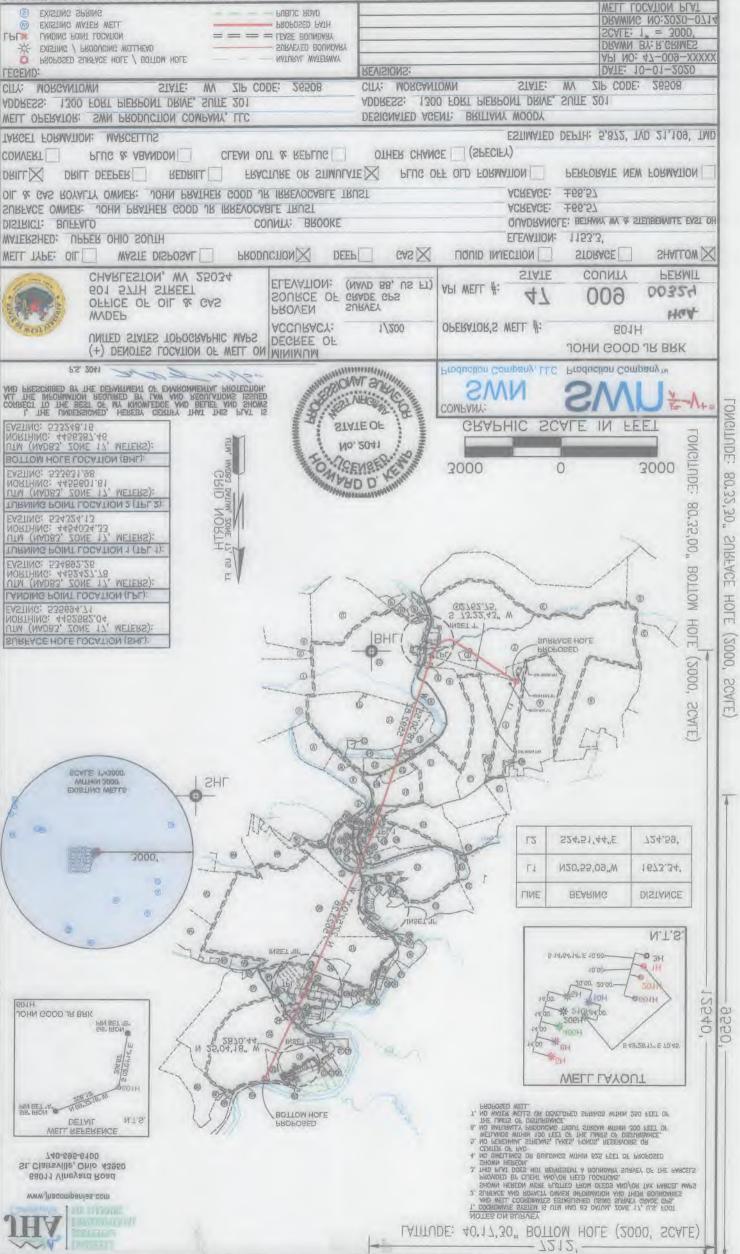
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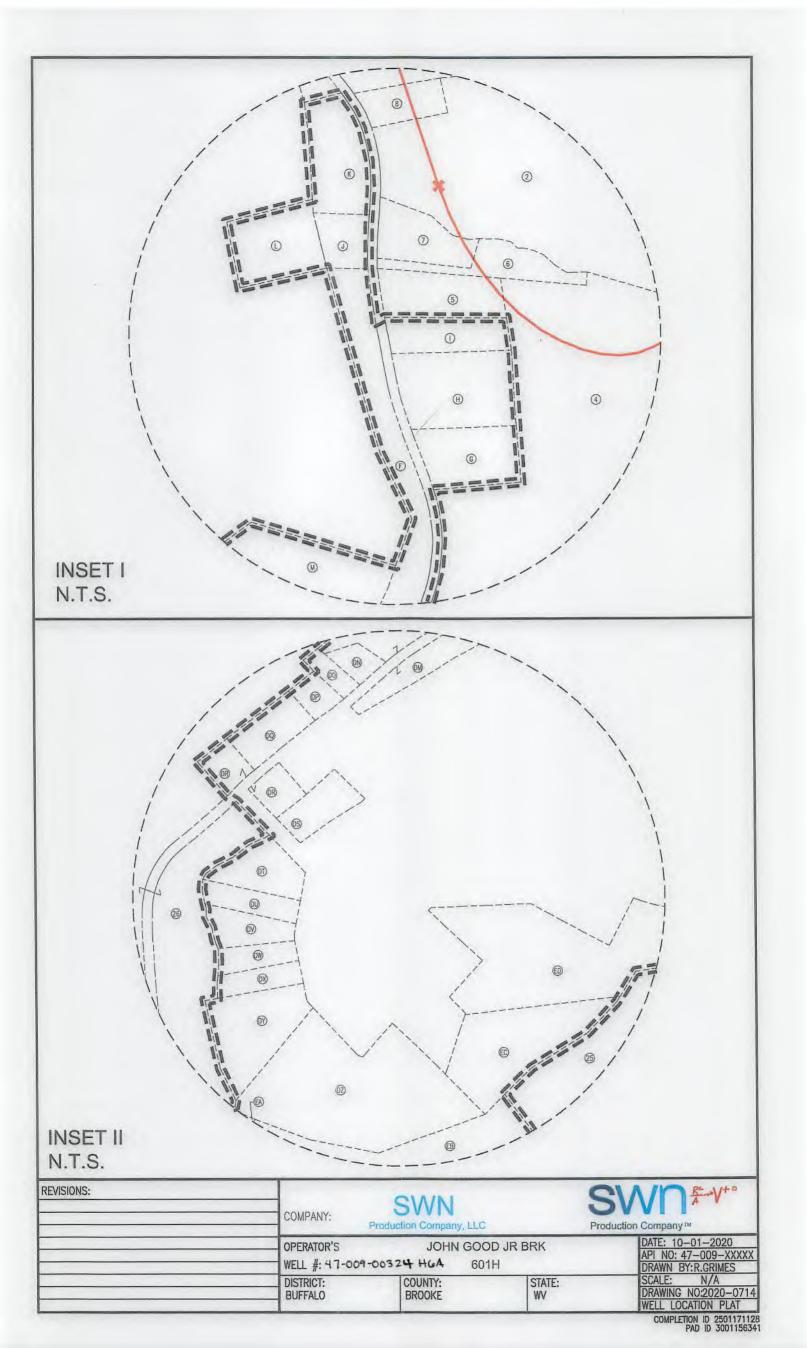
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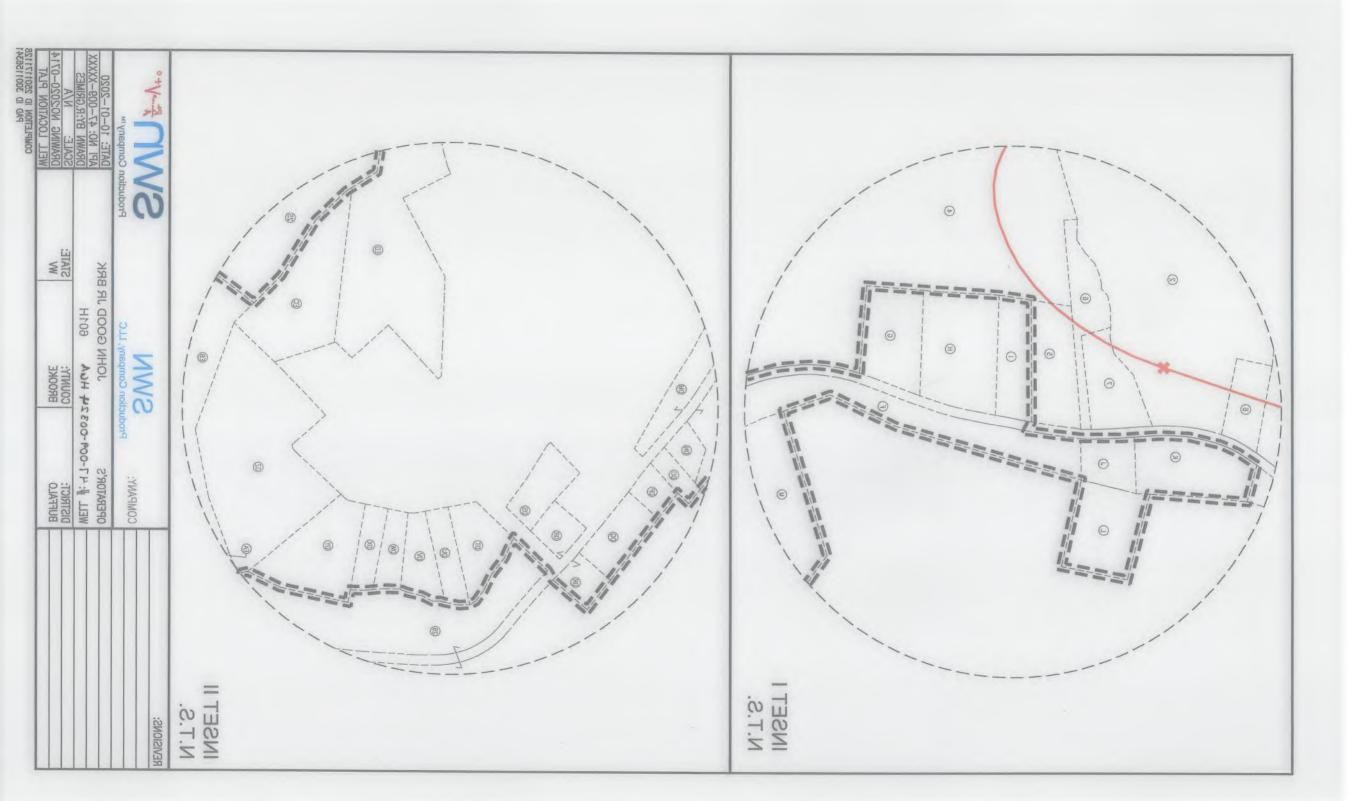
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Title: Senior Regulatory Analyst	SWN Production Co., LLC
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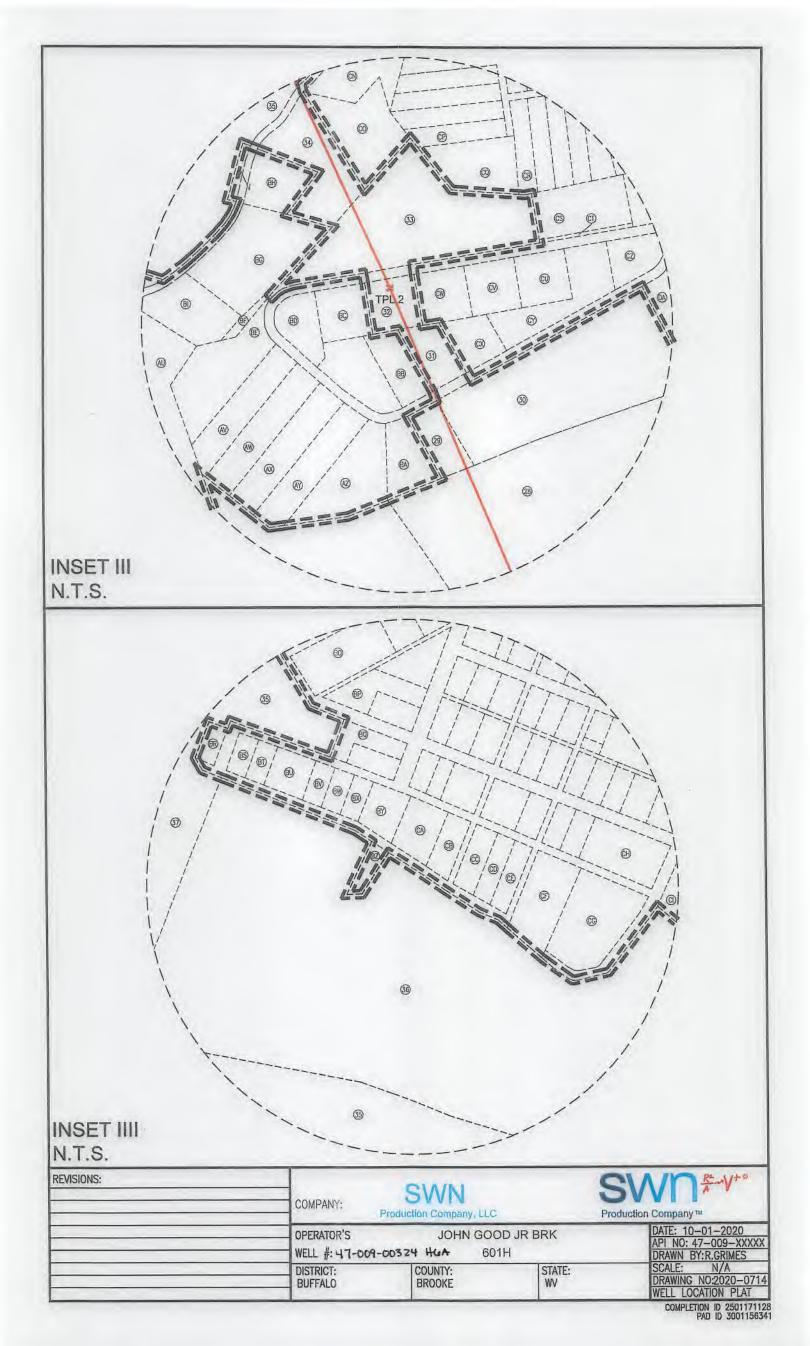
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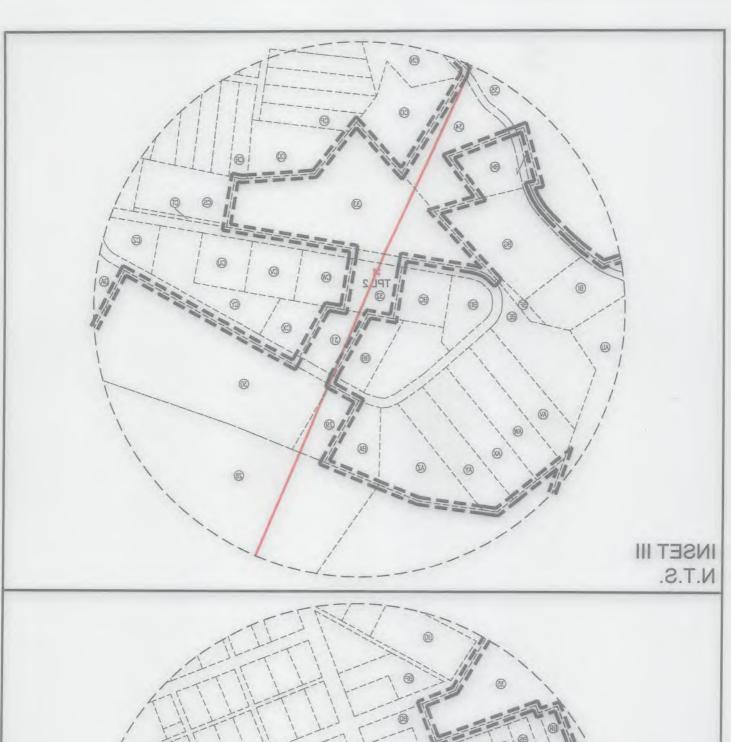


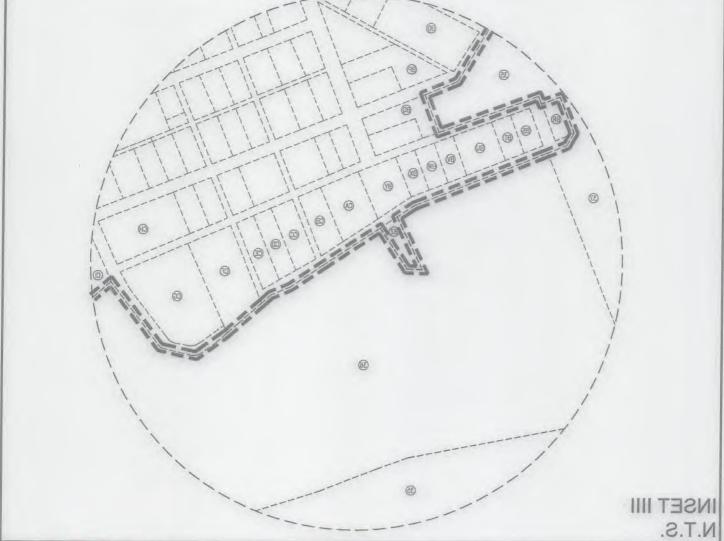












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AR SCHIAPPA AND COMPANY INC 3-B32-1 AS ROBIE GERTRUDE LOUISE MCSHANE 3-B32-3 AU JONES DAVID B 3-B32-1 AV LUNSFORD MELANIE J 3-B32-7 AW WHEAT WILLIAM & HIGGS CARRIE (JTWS) 3-B32-7 AX WHEAT WILLIAM & HIGGS CARRIE (JTWS) 3-B32-7 AY SAUVAGEOT PATRICIA PREMESA GLORIA 3-632-6 AZ RECK JAY D & KAREN SUE 3-B32-6			3-B32-13
AS ROBIE GERTRUDE LOUISE MCSHANE 3-832-8 AU JONES DAVID B 3-832-8 AV LUNSFORD MELANIE J 3-832-7 AW WHEAT WILLIAM & HIGGS CARRIE (JTWS) 3-832-7 AY SAUVAGEOT PATRICIA PREMESA GLORIA 3-632-6 AZ RECK JAY D & KAREN SUE 3-832-6			3-832-11
AU JONES DAVID B 3-832-1 AV LUNSFORD MELANIE J 3-832-7 AW WHEAT WILLIAM & HIGGS CARRIE (JTWS) 3-832-7 AX WHEAT WILLIAM & HIGGS CARRIE (JTWS) 3-832-7 AY SAUVAGEOT PATRICIA PREMESA GLORIA 3-632-6 AZ RECK JAY D & KAREN SUE 3-832-6			3-832-10
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BA RECK JAY D & KAREN SUE(JTWS) 3-B32-6	AZ		3-832-68
BB JACKFERT JEFFREY P 3-632-6		RECK JAY D & KAREN SUE(JTWS)	3-B32-67

CT	ADJOINING OWNERS TABLE SURFACE OWNER	TAXPARCEL
	HAAS JOSEPH E	3-832-58
	CARTE WILLIAM M & HAZELANN (SURV)	3-832-59
Щ	LISH FAMILY TRUST LISH EDWARD C BEATRICE M TRUSTEES	3-832-73
	LISH FAMILY TRUST LISH BEATRICE M EDWARD C	3-832-6
	WALNOHA WILLIAM R	3-B32-5
	STEWART GLENN A & SUSAN L	3-832-4
-	WALNAHA WILLIAM R;CAROLYN S JESSICA (SURV) ROBIE GERTRUDE LOUISE MCSHANE	3-B32-7 3-B32-29
	FORSYTHE PAUL D & PAMELA M (ITWS)	3-837-29
	FRISCO JOHN J SR-1/3 WANYSZN JOSEPHINE-2/3	3-B27K-189
	FRISCO JOHN J SR-1/3 WANYSZN JOSEPHINE-2/3	3-827K-190
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	STEIN JOSEPH PAUL	J-B27P-5
	GOFF TERRY SUE	3-B27P-7
	WILLIAMS MARTHA K	3-B27P-9
	MINDA MICHAEL F JR & TANIMY K (SURV)	3-8279-11
	MINDA MICHAEL F JR & TAMMY K (SURV)	3-B27P-12
	MINDA MICHAEL F JR & TAMMY K (SURV)	3-8270-13
	MINDA MICHAELF JR & TAMMY K (SURV)	3-B27P-14
	LAWRUTHM	3-B27P-15
	LAW RUTH M WALNOHA JOSEPH L & JANICE	3-B27P-16
-	KISNER WILLIAM CLINTON	3-B27P-17 3-B27P-18
	STEWART JOHN WAYNE	3-827P-22
	KISNER WILLIAM C	3-B27P-22
	HARTZELL JOANNE K	3-827P-20
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	HARTZELLJOANN L	3-827R-48
	WILLIAMS STEVEN E & JESSICA (SURV)	3-827R-47
	WILLIAMS STEVEN E & JESSICA N (SURV)	3-827R-46
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	WALLACE JAMES O	3-827R-42
	LUCINDA FAY LUKSHIN	3-827R-51
	HARVEY MICHAEL L & MARSHAL (SURV)	3-827R-52
	OSSMAN ROBERT EJR & LORRAINE	3-B27R-53
	GEORGIANN M. DAY AND EVERETT H. DAY (JTWROS)	3-827R-84 3-827R-82
	NICHOLSON EDWARD W & LESA M DEDITCH GREGORY	3-827K-82 3-832-1
	PETRUCCIOLI RONALD A (LE-ROBERT A & MARIE ELIZABETH)	3-832-2
	YANO KURT MICHAEL (LE-FRANK A &KATHERINE YANO)	3-B32-41
	YANO KURT MICHAELLE-FRANK & KATHERINE YANO)	3-832-42
	ROCKEY DEBRA K (TOD LISA MARIE ROCKEY-MCCUNE AND	
	MATTHEW JAMES ROCKEY)	3-832-43
	MARLIN G. CRAWFORD	3-832-50
	MARLIN G. CRAWFORD	3-832-51
	JACKFERT JEFFREY P	3-832-54
	JACKFERT JEFFREY P	3-832-55
	JACKFERT JEFFREY P	3-832-56
	JACKFERT JEFFREY P MARTING STEVE D. 8. MARY CHRISTINE (SURV)	3-832-63 3-832-64
	MARTINO STEVE D & MARY CHRISTINE (SURV) STEVEN D. MARTINO AND MARY C. MARTINO	3-B32-64 3-B32-53
	STEVEN D. MARTING AND MARY C. MARTING	3-B32-55
	PRATZ GARY LEE & HANNAH JANE	3-B32-74
	WOODBURN ERIC J	3-832-75
	OHLER LESLIE R & JOSEPHINE L (TOD) OHLER JAMIE	3-B32-76
	COLLEY MELVIN A & ALBERTA M	3-B32-78
	SMITH TONY	3-892-79
	BLACK KEITH	3-832-80
	BLACK CINDY LEE	3-832-81
	TAYLOR SYLVIA	3-B32-82
	TAYLOR WAYNE & SYLVIA (SURV)	3-B32G-66
	STEWART TERRY STEWART CHARLOTTE M (JTW5)	3-B32H-1
	MCGOWAN HERBERT	3-832G-67
	VEMURI HOME & GARDENS LLC	3-832G-1
4	OHLER DIXIE LES JAMES SCOTT GEAR	3-832G-2 3-832G-3
	JAMES SCOTT GEAR	3-832G-4
	REED LARRY MICHAEL DEBORAH RENEE (JTWS)	3-B32G-5
	REED LARRY M& DEBORAH R (SURV)	3-B32G-6
	UNKNOWN	3-B32G-63
	OHLER ROBERT F & ANNA	3-B32G-7
	FOX JOHN H	3-B32G-8
	BEST JAMES E ANNETTE MJTWS	3-B32G-9
	BEST JAMES E ANNETTE MUTWS	3-832G-10
	TOMSHACK MATTHEW PATRICK	3-832G-11
	TOMSHACK MATTHEW PATRICK	3-832-88
	FODOR PAUL W & SUSAN A	3-B32-89
	HUBBARD SAMUEL HERVEY	3-832-95
	SEREVICZ MICHAEL AND DELLA (JTWS)	3-832-90
	BEST JAMES E & ANNETTE M (SURV)	3-832-201
	STEWART ALBERT & LOTTIE	3-B32H-50
	STARVAGGI IND	3-833-54
	HUBBARD SAMUEL HERVEY	3-832-97
	MATTHEW P. TOMSHACK AND APRIL D. ELTRINGHAM (SURV)	3-832-98 3-832-99.1
	GOOD JOHN P III; JOHNSTON KENNETH D (SURV)	3-832-99,1
	MARSH LIVING TRUST 1/28/13 (TRUS-PHYLLIS MARSH)	3-832-118
	GOOD JOHN PRATHER III THOMAS LAURIE (SURV)	3-832-119
	BIRDSALL BRIAN	3-832-120
1	GOOD JOHN PRATHER JR JR REVOCABLE TR DTD 4/11	3-B33-57
	MARKER PHYLLIS; MARKER-SCHNELL PATRICIA (SURV)	3-832-127
)	MAZZELLA DONNA A	3-837-44
	HAMMOND PUBLIC SERVICE DISTRICT	3-837-45.1

SWN COMPANY: Production Company, LLC Production Company™ DATE: 10-01-2020
API NO: 47-009-XXXXX
DRAWN BY:R.GRIMES
SCALE: N/A
DRAWING NO:2020-0714
WELL LOCATION PLAT
COMPLETION ID 2501171128
PAD ID 3001156341 OPERATOR'S JOHN GOOD JR BRK WELL #: 47-009-00324 H&A 601H DISTRICT: BUFFALO COUNTY: BROOKE STATE: WV

BEHAVIOLA	SORSACEOWNER
3-832-58	HAAS JOSEPH E
3-832-59	CARTE WILLIAM M & HAZEL ANN (SURV)
2-832-73	LISH FAMILY TRUST USH EDWARD C BEATRICE M TRUSTEES
3-832-6	LISH FAMILY TRUST LISH BEATRICE M EDWARD C
3-832-5	WALNORA WILLIAM R.
3-832-4	STEWART GLENN A & SUSAN L
3-832-7	WALNAHA WILLIAM R;CAROLYN S JESSICA (SURV)
3-832-25	ROBIE GERTRUDE LOUISE MCSHANE
3-827-17	FORSYTHE PAUL DIS PAINELA IN (LTWS)
3-827K-189	FRISCO JOHN J SR-1/3 WAMYSZN JOSEPHINE-2/3
3-827K-19	FRISCO JOHN J SR-2/3 WANYSZN JOSEPHINE-2/3
3-827%-188	A BAMBONED RAILROAD SOUTH OF BUFFALO CREEK
3-8279-5	STEIN JOSEPH PAUL
3-8279-7	GOFF TERRY SUE
3-8279-9	WILLIAMS MARTHA K
3-8279-11	MINDA MICHAELF IR & TAMMY K (SURV)
3-8279-12	MINDA MICHAEL FUR & TAWMY K (SURV)
3-8277-13	MINDA MICHAEL FLIR & TAMMY W (SURV)
3-8279-14	MINDA MICHAELF 18 & TAMMY X (SURV)
3-8279-15	LAW RUTH M.
	LAWRUTHM
3-8279-16	WALNOHA JOSEPHL & JANICE
3-8279-17	
3-8279-18	KISMER WILLIAM CLINTON
3-8279-22	STEWART JOHN WAYNE KISNER WILLIAM C
3-8279-19	
3-8279-20	HARTZELL JOANNEK
3-B27R-49	HARTZELLJOANNEL
3-8278-48	HARTZELLJOANN L
3-827R-47	WILLIAMS STEVEN E & JESSICA (SURV)
3-B270-46	WILLIAMS STEVEN E & JESSICA N (SURV)
3-B27R-43	WALLACE JAMES
3-827R-42	WALLACE JAMES O
3-827A-51	LUCINDA FAY LUXSHIN
3-8274-52	HARVEY MICHAEL L& MARSHA L (SURV)
3-8278-53	OSSMAN ROBERT ETR & LORRAINE
3-827R-84	GEORGIANN M DAY AND EVERETTH, DAY (ITWROS)
3-B27R-B2	WICHOLSON EDWARD W & LESA M
3-832-1	DEDITCH GREGORY
3-832-2	PETRUCCIOLI RONALD A (LE-ROBERT A & MARIE ELIZABETH)
3-832-41	YANO KURT MICHAEL (LE-FRANK A SKATHERINE YANO)
3-832-42	YANO KURT MICHAEL LE-FRANK & KATHERINE YANO)
3-832-43	ROCKEY DEBRA K (TOD USA MARIE ROCKEY-MCCUNE AND
Dr. SED.	MATTHEW JAMES ROCKEY)
3-832-50	MARLIN G. CRAWFORD
3-832-51	MARLIN G. CRAWFORD
3-832-54	JACKFERT JEFFREY P
3-832-55	JACKFERT JEFFREY P
3-832-56	JACKFERT JEFFREY P
3-832-63	JACKFERTJEFFREY P
3-832-64	MARTING STEVED & MARY CHRISTINE (SURV)
3-832-53	STEVEN D. MARTINO AND MARY C. MARTINO
3-832-65	STEVEN D. MARTING AND MARY C. MARTING
3-832-74	PRATZ GARY LEE & HANNAH JANE
3-832-75	WOODBURN ERIC I
3-832-75	OHIER LESLIER & JOSEPHIME L (TOD) OHLER JAMIE
3-832-78	COLLEY MELVIN A & A LIBERTA M
9-832-79	SMITH TONY
3-832-80	BLACK KEITH
3-832-81	BLACK CINDY LEE
3-832-82	TAYLOR SYLVIA
3-8326-60	TAYLOR WAYNE & SYLVIA (SURV)
3-832H-1	STEWART TERRY STEWART CHARLOTTE M (ITWS)
3-8326-67	MCGOWAN HERBERT
3-8326-1	VEMURI HOME & GARDENS LLC
3-8326-2	OHLER DIXIE LEE
3-B32G-3	JAMES SCOTT GEAR
3-8326-4	JAMES SCOTT GEAR
3-B32G-5	REED LARRY MICHAEL DEBORAH RENEE (JTWS)
3-832G-F	REED LARRY M & DEBORAH R (SURV)
3-B32G-6	UNKNOWN
3-832G-7	OHLER ROBERT F & ANNA
3-0320-6	FOX JOHN H
3-832G-S	BEST JAMES E ANNETTE M ITWS
3-8326-1	
3-832G-1	BEST JAMES E ANNETTE MUTWS TO ACCHACY MATTHEW PATRICK
	TOMSHACK MATTHEW PATRICK
3-832-89	TOMBHACK MATTHEW PATRICK
3-832-89	FODOR PAUL W & SUSAN A
3-892-96	HUBBARD SAMUEL HERVEY
3-832-90	SEREVICZ MICHAEL AND DELLA (JTWS)
3-832-20	BEST JAMES E & AN NETTE M (SURV)
3-832H-S	STEWART ALBERT & LOTTIE
3-833-54	STARVAGGI IND
3-832-97	HUBBARD SAMUEL HERVEY
3-632-95	MATTHEW P. TOMSHACK AND APRILD, ELTRINGHAM (SURV)
3-832-99.	OHLER JAMIE L.B. LESLIE (SURV)
3-832-11	GOOD JOHN P IN JOHNSTON KENNETH D (SURV)
3-632-11	MARSH LIVING TRUST 1/28/13 (TRUS-PHYLLIS MARSH)
3-832-11	GOOD JOHN PRATHER III THOMAS LAURIS (SURV)
	BIRDSALL BRIAN
	GOOD JOHN PRATHER JR IRREVOCABLE TRIDTD 4/11
3-832-12	
3-832-12 3-833-5	
3-832-12 3-833-5' 3-832-12	WARRER PHYLLIS; MARKER-SCHWELL PATRICIA (SURV)
3-832-12 3-833-5'	

03-838-001.0	SOCIAL PRATHER LR (RREVOCABLETR DTD 4/11(5)/(R)
	3.00
TAX PARCEL	SURFACE CIWINER
03-837-053.0	STARVAGGI INDUSTRIES INC.
3-B37-53.2	CRAWFORD MARUN G SR & JOYH (SURV)
3-837-62	RIPLEY JOHN E & SHERRILL I (SURV) (LEST-WILDA RIPLEY)
3-837-56	JEFFREY D. LOV AND KATRENA M. LOV (SURV)
3-837-55	CRAWFORD MARLIN G SR & JOY (SURV)
3-837-54	SMITH LAWRENCE PAUL SR
3-837-52	USA MARIE BLACK
3-837-48	RODGERS RICHARD: SHARP CHERIJO'DYER EDWARED ETAL
3-837-50	JOHNSTON WILLIAM E& HAZELE (SURV)
3-837-45	CHRISTMAN MARK A
3-B37-47	VEMURI DWARKA NATH DBA AMERICAN HEART ASSOCIATES
3-B37-49	LUKACENA, BONME LEE; SCHEUTZNER, SHAYNE; SCHEUTZNER, SHANDN; CARRELL, SHELBY; SCHEUTZNER, SHEY
Div FCG C	
3-837-46	MAZZELIA WELDING & FABRICATION INC
3-837-45.1	MAZZELIA WELDING & FABRICATION INC
3-832-116	GEORGETTI ROWDYT
3-632-99.4	TOMSHACK WATTHEW P
3-832-99.3	PAMELA S. MERCER
3-835-99	FEDAR MARK & GEORGIA
PIERCE RUN RD	STATE OF WEST VIRGINIA DEPARTMENT OF
	TRANSPORTATION
3-832-103	FEDAK MARK & GEORGIA (SURV)
3-932-200	FEDAK MARK A & GEORGIA M
SAIG AN VINE	STATE OF WEST VIRGINIA DEPARTMENT OF
BETHANY PIKE	TRANSPORTATION
3-832-133	ICKES HARRY & JUDITH (SURV)
3-992-96	HUBBARO SAMUEL HERVEY
3-582-9	SCHIAPPA & COMPANY INC
3-8326-67	MCGOWAN HERBERT
3-8326-67.1	RECKJAYD & KAREN S (SURV)
3-832-66	JACKFERTJEFFREY P
3-832-64	MARTING STEVE D & MARY CHRISTINE
3-832-62	JACKFERTJEFFREYP
3-832-57	JACKFERT JEFFREY P
3-832-52	SNODERLY CHRISTOPHER & JACQUELINE (SURV)
3-832-3	PETRUCCIOU RONALD [LE-ROBERT & MARIE ELIZABETH)
3-8279-30	ROBIE GERTRUDE LOUISE MCSHANE
3-827R-S0	LUKSHIN LUCINDA
3-B27P-31	MACIAN EDWARD
TC-4170-C	
INTO A PUBLISHED	SEAT SIGNING DISTRIBUTA
TAMPAGEL	PENWO (24 ON)
3-833-80.0	JACKSON MARY JAMET.O.D. E-TAL
0.V-8EB-E	PROELLOCHS JOHN H JR. RAY KEVIN & JODY
3-838-14.0	FEDAK MARK A & GEORGIA M (SURV)
3-838-31.0	BETHANY COLLEGE
3-BST-63.0	PELUCHETTE FAMILY TRUST
3-837-62.0	RIPLEY JOHN E & SHERRILL LISIURY) (L'EST-WILDA RIPLEY)
3-837-61	RIPLEYJOHN E & SHERRILLJ (SURV)
3-837-59	POLENTRAVIS
3-837-57	PERSINGER JEREMY S
3-837-55	CRAWFORD MARHIN G SR & JOY (SURV)
3-837-53.1	JOHNSTON WILLIAM E & HAZEL E (SURV)
3-837-51	BUFFALD CREEK CAMP
3-837-70	BOWMAN JOSEPH K. B. GLORIA
3-837-69.1	BOWMAN JOSEPH K SR & GLORIA J (SURV)
1,20,160-0	
3-837-71	SILVER CAROLE; MCDONALD CAYMAN; FERGUSON JENNIFER
24 944	ETAL
3-B37-74.1	JOHNSTON WILLIAM E& HAZEL EBERTY (SURV)
3-837-81	BOME ROBERT O
3-837-88	CYPHERT DEBRA-1/4; FAIR MATTHEW-1/4; ETAL
3-837-91	CYPHERT DEBRA-1/4; FAIR MATTHEW-1/4; ETAL
3-837-23	SCHIAPPA AND COMPANY INC
3-937-22	SCHIAPPA AND COMPANY INC
3-837-43	OHLER JAMIE 1
3-832-128	MAZZELIA VINCENTS PHILLIP
3-832-129	MORRIS JOSEPH C & PENNY J
3-832-115	
	VEMURI HOME & GARDENS LLC
3-832-114	Haffic Aller
3-032-99.2	MERCER PAMELA SUE
3-832-109	WILLIAMS ROMALD E & SANDRA L
	VAN HORN LLOYD T
801-SEH-E	VAN HORN LLOYD TR. JUDITH K TO D AMY LYNN ETAL
3-832-108 3-832-105	VAN HORN LLOYD T & JUDITH K T O D AMY LYNN ET AL
3-832-105	VAN HORN LLOYD T & JUDITH'S TOD ANY LYNN ETAL (JTWS)
3-832-105 3-932-106	VAN HORN LLOYD T & JUDITH'S TOD ANY LYNN ETAL (JTWS) VAN HORN LLOYD T
3-832-105 3-832-105 3-832-104 3-832-104	VAN HORN LLOYD T
3-832-105 3-832-106 3-832-104 3-832-107 3-832-132	VAN HORN LLOYD T MILLER BERNARD LJR & DONNAJ
3-832-106 3-832-106 3-832-107 3-832-107 3-832-132 3-832-135	VAN HORN LLOVID T MILLER BERNARID LJR & DONNAJ HAMMOND PUBLICSERVICE
3-832-105 3-832-106 3-832-104 3-832-107 3-832-132 3-832-135 3-832-134	VAN HORN LLOVID T MILLER BERNARID LJR & DONNAJ HAMMONID PUBLIC SERVICE WILLIAMS PATRICIA
3-832-105 3-832-106 3-832-104 3-832-125 3-832-133 3-832-133 3-832-134 3-832-134	VAN HORN LLOVID T MILLER BERNARID LJR & DONNAJ HAMMIONID PUBLIC SERVICE WILLIAMS PATRICIA WILLIAMS PATRICIA
3-832-105 3-832-106 3-832-107 3-832-107 3-832-134 3-832-135 3-832-136 3-832-136 3-832-136	VAN HORN LLOVD T MILLER BERNARDE LE RE DONNAJ HAMMOND PUBLICSERVICE WILLIAMS PATRICIA WILLIAMS PATRICIA MICSOWAN DAVID
3-832-105 3-832-106 3-832-106 3-832-132 3-832-136 3-832-136 3-832-136 3-832-136 3-832-136	VAN HORN LLOYD T MILLER BERNARD LIR & DONNAJ HAMMOND PUBLIC SERVICE WILLIAMS PATRICIA WILLIAMS PATRICIA MIGGOWAN DAVID TREDWAY ROBERT IS JR
3-832-105 3-832-106 3-832-107 3-832-107 3-832-134 3-832-135 3-832-136 3-832-136 3-832-136	VAN HORN LLOVD T MILLER BERNARDE LE RE DONNAJ HAMMOND PUBLICSERVICE WILLIAMS PATRICIA WILLIAMS PATRICIA MICSOWAN DAVID
3-832-105 3-832-104 3-832-107 3-832-104 3-832-135 3-832-135 3-832-136 3-832-136 3-832-136 3-832-136 3-832-136 3-832-136	VAN HORN LLOYD T. MILLER BERNARD L JR & DONNAJ HAMMIOND PUBLIC SERVICE WILLIAMS PATRICIA WILLIAMS PATRICIA MILLAMS PATRICIA MISSOWAN DAVID TREDWAY ROBERT G JR MCCORD LILIAN
3-832-105 3-832-104 3-832-104 3-832-104 3-832-135 3-832-135 3-832-136 3-832-136 3-832-136 3-832-136 3-832-136 3-832-136 3-832-136 3-832-136	VAN HORN LLOYD T MILLER BERNARD L JR & DONNAJ WILLIAMS PATRICIA WILLIAMS PATRICIA MICSOWAN DAVID TREDWAY ROBERT 5 JR MCCORD LILLIAN MASLO FARMS LLC A PENNSYLVANIA LLC
3-832-106 3-832-106 3-832-107 3-832-107 3-832-107 3-832-135 3-832-136 3-832-136 3-832-136 3-832-136 3-832-136 3-832-136 3-832-136 3-832-136 3-832-136 3-832-136 3-832-136 3-832-136	VAN HORN LLOYD T MILLER BERNARD L JR & DONNAJ WILLIAMS PATRICIA WILLIAMS PATRICIA WILLIAMS PATRICIA MOSOWAN DAVID TREDWAY ROBERT 5 JR MCCORD LILIAN MASLO FARMS LLC A PENNSYLVANIA LLC VIDERMAN DAVID JOSEPH JR GEORGE ETAL
2-832-108 3-832-109 3-832-107 3-832-107 3-832-109 3-832-139 3-832-139 3-832-139 3-832-139 3-832-139 3-832-139 3-832-189 3-832-189 3-832-189 3-832-189 3-832-189 3-832-189 3-832-19	VAN HORN LLOYD T MILLER BERNARDE LE RE DONNAJ WILLIAMS PATRICIA WILLIAMS PATRICIA MIGGOWAN DAVID TREDWAY ROBERT 5 JR MASIO FARMS LLC A PENNSYLVANIA LLC VIDERMAN DAVID JOSEPH IR GEORGE ETAL VIDERMAN DAVID JOSEPH IR GEORGE ETAL HAMILTON PENNY
3-832-105 3-832-107 3-832-107 3-832-107 3-832-107 3-832-108 3-832-138 3-832-138 3-832-138 3-832-138 3-832-188 3-832-185 3-832-185 3-832-185 3-832-185 3-832-185 3-832-185 3-832-185 3-832-185 3-832-185 3-832-185 3-832-185	VAN HORN LLOYD T HAMMOND PUBLIC SERVICE WILLIAMS PATRICIA WILLIAMS PATRICIA MIGGOWAN DAVID TREDWAY ROBERT 5 JR MASIO FARMS LLC A PENNSYLVANIA LLC VIDERMAN DAVID IOSEPH JR GEORGE ETAL VIDERMAN DAVID IOSEPH JR GEORGE ETAL LAMILTON PENNY SCHIAPPA AND COMPANY INC
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3-832-105 3-832-104 3-832-104 3-832-104 3-832-104 3-832-135 3-832-135 3-832-135 3-832-135 3-832-135 3-832-135 3-832-135 3-832-13 3-832-13 3-832-13 3-832-13 3-832-13 3-832-13 3-832-13 3-832-13 3-832-13	VAN HORN LLOYD T. MILLER BERNARD L JR & DONNAJ WILLIAMS PATRICIA WILLIAMS PATRICIA WILLIAMS PATRICIA MICOOWAN DAVID TREDWAY ROBERT G JR MASJO FARMS LIC A PERMSYLYANIA LLC VIDERMAN DAVID JOSEPH JR GEORGE ETAL HAMILTON PENNY SCHIAPPA AND COMPANY INC ROBIE GERTRIDDE LOUISE ANY INC JONES DAVID B
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3-832-105 3-832-104 3-832-104 3-832-104 3-832-135 3-832-135 3-832-136	VAN HORN LLOYD T. MILLER BERNARD L JR & DONNAJ WILLIAMS PATRICIA WILLIAMS PATRICIA WILLIAMS PATRICIA MICOOWAN DAVID TREDWAY ROBERT G JR MASJO FARMS LIC A PERMSYLYANIA LLC VIDERMAN DAVID JOSEPH JR GEORGE ETAL HAMILTON PENNY SCHIAPPA AND COMPANY INC ROBIE GERTRIDDE LOUISE ANY INC JONES DAVID B
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3-832-105 3-832-105 3-832-105 3-832-107 3-832-107 3-832-107 3-832-135 3-832-136 3-832-136 3-832-136 3-832-186 3-832-186 3-832-186 3-832-186 3-832-186 3-832-187 3-832-187 3-832-187 3-832-187 3-832-197 3-832-197 3-832-197 3-832-197 3-832-197 3-832-197 3-832-197 3-832-197 3-832-197 3-832-79	VAN HORN LLOYD T HAMMOND PUBLIC SERVICE WILLIAMS PATRICIA WILLIAMS PATRICIA MIGGOWAN DAVID MIGGOWAN DAVID MACGOP LILLIAN MASLO FARMS LLC A PENNSYLVANIA LLC VIDERMAN DAVID 10SEPH IR GEORGE ETAL SCHIAPPA AND COMPANY INC HAMILTON PENNY JONES DAVID B ROBIE GERTRIDE LOUISE MCSHANE LUNSFORD MIGGS CARRIE (LIWS) WHEAT WILLIAM & HIGGS CARRIE (LIWS) WHEAT WILLIAM & HIGGS CARRIE (LIWS)
3-832-105 3-832-105 3-832-106 3-832-106 3-832-107 3-832-135	VAN HORN LLOYD T HAMMOND PUBLIC SERVICE WILLIAMS PATRICIA WILLIAMS PATRICIA MICHAMS PATRICIA MICHAMS PATRICIA TREDWAY ROBERT 6 JR MASJO FARMS LLC A PENNSYLVANIA LLC VIDERMAN DAVID JOSEPH IR GEORGE ETAL HAMILTON PENNY SCHIAPPA AND COMPANY INC ROBIE GERTRIDDE COUSSE MOSSHANE JONES DAVID B ULIVISCORD MICHANE LUNGST DAVID B WHEAT WILLIAM & HIGGS CARRIE (1TWS)
3-832-105 3-832-104 3-832-104 3-832-104 3-832-104 3-832-135 3-832-136	VAN HORN LLOYD T HAMMOND PUBLIC SERVICE WILLIAMS PATRICIA WILLIAMS PATRICIA WILLIAMS PATRICIA MIGOVAN DAVID MASCO FARMS LIC ARENDSYLVANIA LLC MASCO FARMS LIC A PERMISYLVANIA LLC VIDERMAN DAVID JOSEPH JR GEORGE ETAL HAMILTON PENNY SCHIAPPA AND GOMPANY INC ROBIE GERTRUDE LOLUSE MICHAEL JONES DAVID B WHEAT-WILLIAM & HIGGS CARRIE (JTWS)
3-832-105 3-832-104 3-832-104 3-832-104 3-832-104 3-832-135	VAN HORN LLOYD T MILLER BERNARD L JR & DONNAJ WILLIAMS PATRICIA WILLIAMS PATRICIA WILLIAMS PATRICIA MICCORD LILIAM TREDWAY ROBERT G JR MASLO FARNS LLC A PERMSYLVANIA LLC VIDERMAN DAVID JOSEPH JR GEORGE ETAL HAMILTON PENNY SCHIAPPA AND COMPANY INC ROBIE GERTRUDE LCLUISE MICSHANE LUNSFORD MELANIEJ JONES DAVID B WHEAT WILLIAM & HIGGS CARRIE (17WS) WHEAT WILLIAM & HIGGS CARRIE (17WS) SALVAGGET PATRICIA PREMISA GLORIA RECK JAY D & KAREN SUE RECK JAY D & KAREN SUE

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SVI V+D		SWN oduction Company, LLC	OMPANY:		REVISIONS:
DATE: 10-01-2020 API NO: 47-009-XXXXX DRAWN BY:R.GRIMES		JOHN GOOD	PERATOR'S ELL #: 47-009-00		
SCALE: N/A DRAWING NO:2020-0714 WELL LOCATION PLAT	STATE: WV	COUNTY: BROOKE	IISTRICT: BUFFALO		

WW-6A1 (5/13)

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

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

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

Lease Name or Number

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

SEE EXHIBIT "A"

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

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

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

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

Well Operator: SWN Production Company, LLC

By:

Ophn D. Startz John D. Startz, CPL, Teohnical Expert Landman Its:

Page 1 of 1

EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, Operator John Good Jr. BRK 601H

Brooke County, West Virginia

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG
1)	03-B38-1√	John Prather Good, Jr.	Range Resources - Appalachia, L.L.C.	12.50%	10/274
	,		SWN Production Company, LLC		30/480
2)	03-B37-53	Starvaggi Industries, Incorporated	Fortuna Energy Inc.	12.50%	9/532
			Range Resources - Appalachia, L.L.C.		10/226
			Chesapeake Appalachia, L.L.C.		10/541
		/	SWN Production Company, LLC		30/480
3)	3-B37-53.2 ✓	Starvaggi Industries, Incorporated	Fortuna Energy Inc.	12.50%	9/532
			Range Resources - Appalachia, L.L.C.		10/226
			Chesapeake Appalachia, L.L.C.		10/541
	,		SWN Production Company, LLC		30/480
4)	3-B37-62 ✓	John R. Ripley and Sherrill J. Ripley, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	14/575
	,	(SWN Production Company, LLC		30/480
5)	3-B37-56	Wilda L. Ripley, widow, Life Estate	Chesapeake Appalachia, L.L.C.	18.00%	17/18
		/	SWN Production Company, LLC		30/480
6)	3-B37-55 √	Marlin G. Crawford, Sr. and Joy Crawford, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	17/13
		/	SWN Production Company, LLC		30/480
7)	3-B37-54 √	Vernon E. Smith Sr., widower	Chesapeake Appalachia, L.L.C.	18.00%	16/439
			SWN Production Company, LLC		30/480
		Rebecca Hall F/K/A Rebecca Lynn MeNeely, a married woman	Chesapeake Appalachia, L.L.C.	18.00%	17/179
		dealing in her sole and separate property	SWN Production Company, LLC		30/480
		Lawrence Paul Smith and Sheron Smith, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	17/711
			SWN Production Company, LLC		30/480
		Linda Darlene Carey, a single woman	Chesapeake Appalachia, L.L.C.	18.00%	17/74
			SWN Production Company, LLC		30/480

EXHIBIT "A"

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Brooke County, West Virginia

		Vernon Eugene Smith, Jr., a married man dealing in his sole and	Chesapeake Appalachia, L.L.C.	18.00%	17/79
		separate property	SWN Production Company, LLC		30/480
8)	3-B37-52 🗸	Cleo Klages, a single woman	Chesapeake Appalachia, L.L.C.	14.00%	11/211
·			SWN Production Company, LLC		30/480
9)	3-B37-48 ✓	Bonnie Lukacena, married	Chesapeake Appalachia, L.L.C.	14.00%	10/634
-			SWN Production Company, LLC		30/480
		Shayne Schuetzner, a single man	Chesapeake Appalachia, L.L.C.	14.00%	10/669
			SWN Production Company, LLC		30/480
		Shanon Schuetzner, a married man dealing in his sole and	Chesapeake Appalachia, L.L.C.	14.00%	10/665
		separate property	SWN Production Company, LLC		30/480
		Shey Schuetzner, a single woman	Chesapeake Appalachia, L.L.C.	14.00%	10/673
	•		SWN Production Company, LLC		30/480
		Shelby Carrell, a married woman dealing in her sole and separate	Chesapeake Appalachia, L.L.C.	14.00%	11/123
		property	SWN Production Company, LLC		30/480
		John Thomas Rodgers, a single man	Chesapeake Appalachia, L.L.C.	18.00%	17/298
			SWN Production Company, LLC		30/480
		Paige Elizabeth Rollins, single	Chesapeake Appalachia, L.L.C.	18.00%	21/506
			SWN Production Company, LLC		30/480
		Cheri A. Sharpe, a married woman acting in her own rights	Chesapeake Appalachia, L.L.C.	18.00%	21/511
	,		SWN Production Company, LLC		30/480
10)	3-B37-50	John L. Latimer and Angela Latimer, Husband and Wife, and	Great Lakes Energy Partners, L.L.C.	14.00%	9/713
-		Deborah S. Starr, single	Chesapeake Appalachia, L.L.C.		10/552
		William E. Johnston and Hazel E. Johnston, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	12/298
		,	SWN Production Company, LLC		30/480
11)	3-B37-45 🗸	Mary Schiappa '74 Trust, fbo Teresa Schiappa, JPMorgan Chase	Chesapeake Appalachia, L.L.C.	20.00%	10/469
•		Bank, N.A., Trustee	SWN Production Company, LLC		30/480

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Brooke County, West Virginia

		Mary Schiappa '74 Trust, fbo Huberto Siciliano, JPMorgan Chase	Chesapeake Appalachia, L.L.C.	20.00%	10/470
		Bank, N.A., Trustee	SWN Production Company, LLC		30/480
12)	3-B37-47 🗸	Gary T. Bucey & Linda T. Bucey, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	16/317
			SWN Production Company, LLC		30/480
		Jeffrey M. Bucey & Mary Patricia Bucey, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	16/307
			SWN Production Company, LLC		30/480
		Timothy K. Bucey & Trudy Jo Bucey, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	16/328
			SWN Production Company, LLC		30/480
		Shirley Ann Johnson, a married woman dealing in her sole and	Chesapeake Appalachia, L.L.C.	18.00%	16/338
		separate property	SWN Production Company, LLC		30/480
		Lynn Wells Dodd, a married man dealing in his sole and separate	Chesapeake Appalachia, L.L.C.	18.00%	16/84
		property	SWN Production Company, LLC		30/480
		Rebecca Wells Rocca & Frank H. Rocca, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	16/323
İ			SWN Production Company, LLC		30/480
		Keith Dodd & Rose M. Dodd, husband & wife	Chesapeake Appalachia, L.L.C.	18.00%	16/333
			SWN Production Company, LLC		30/480
		Dwarka Nath Vemuri, d/b/a American Heart Associates	Chesapeake Appalachia, L.L.C.	18.00%	14/767
			SWN Production Company, LLC		30/480
		Henry R. Wells & Raynel Wells, husband & wife	Chesapeake Appalachia, L.L.C.	18.00%	16/697
			SWN Production Company, LLC		30/480
13)	3-B37-49 🗸	Bonnie Lukacena, married	Chesapeake Appalachia, L.L.C.	14.00%	10/638
·			SWN Production Company, LLC		30/480
		Shayne Schuetzner, a single man	Chesapeake Appalachia, L.L.C.	14.00%	10/678
			SWN Production Company, LLC		30/480
		Shanon Schuetzner, a married man dealing in his sole and	Chesapeake Appalachia, L.L.C.	14.00%	10/682
		separate property	SWN Production Company, LLC		30/480

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Brooke County, West Virginia

		Shelby Carrell, a married woman dealing in her sole and separate	Chesapeake Appalachia, L.L.C.	14.00%	11/25
		property	SWN Production Company, LLC		30/480
		Shey Schuetzner, a single woman	Chesapeake Appalachia, L.L.C.	14.00%	10/660
			SWN Production Company, LLC		30/480
14)	3-B37-46 🗸	Vivian Mazzella, widow	Chesapeake Appalachia, L.L.C.	18.00%	14/730
			SWN Production Company, LLC		30/480
15)	3-B37-46.1	Mazella Welding and Fabrication, Inc.	Chesapeake Appalachia, L.L.C.	18.00%	14/737
			SWN Production Company, LLC		30/480
16)	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 Markely 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
17)	3-B32-99.4 V	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

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Brooke County, West Virginia

		James P. Lewis Revocable Trust	SWN Production Company, LLC	16.00%	34/592
		David Markely 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
18) 3-B32-99.	3-B32-99.3 /	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	SWN Production Company, LLC	16.00%	34/573
		and separate property James P. Lewis Revocable Trust	SWN Production Company, LLC	16.00%	34/592
		David Markely 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
19)	3-B32-99 ✓	George Markley Lewis, III, a married man	SWN Production Company, LLC	16.00%	34/577

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Brooke County, West Virginia

Margaret Lewis Stevens, a married woman, dealing in her sole **SWN Production Company, LLC** 34/573 16.00% and separate property 34/592 **SWN Production Company, LLC** James P. Lewis Revocable Trust 16.00% David Markely Lewis, single **SWN Production Company, LLC** 16.00% 34/636 **SWN Production Company, LLC** Peery Brittain Lewis, Jr., a married man 16.00% 34/640 Rebecca Lewis Binder, single **SWN Production Company, LLC** 16.00% 34/644 **SWN Production Company, LLC** 40/586 Golden Eagle Resources II, LLC 18.00% 20) Pierce Run Road, West Virginia Department of Transportation, Division of Chesapeake Appalachia, L.L.C. 18/723 15.00% Highways **SWN Production Company, LLC** 30/480 Chesapeake Appalachia, L.L.C. 12/595 3-B32-103 / Mark A. Fedak and Georgia M. Fedak, husband and wife 18.00% **SWN Production Company, LLC** 30/480 3-B32-200 Mark A. Fedak and Georgia M. Fedak, husband and wife Chesapeake Appalachia, L.L.C. 12/595 22) 18.00% **SWN Production Company, LLC** 30/480 Bethany Pike VWest Virginia Department of Transportation, Division of Chesapeake Appalachia, L.L.C. 15.00% 18/723 23) **SWN Production Company, LLC** 30/480 Highways 3-B32-133 George Markley Lewis, III, a married man 34/577 **SWN Production Company, LLC** 16.00% 24) Margaret Lewis Stevens, a married woman, dealing in her sole **SWN Production Company, LLC** 16.00% 34/573 and separate property **SWN Production Company, LLC** 34/592 James P. Lewis Revocable Trust 16.00%

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Brooke County, West Virginia

		David Markely 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
25)	3-B32-96 /	Samuel Hubbard and Shelba Hubbard, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	11/720
			SWN Production Company, LLC		30/480
26)	3-B32-9 /	Schiappa and Company, Inc.	SWN Production Company, LLC	15.50%	33/356
27)	3-B32G-67 🗸	Schiappa and Company, Inc.	SWN Production Company, LLC	18.00%	39/605
28)	3-B32G-67.1	≾chiappa and Company, Inc.	SWN Production Company, LLC	18.00%	39/605
29)	3-B32-66 /	Joseph Jackfert, a widower, appearing herein by and through	Chesapeake Appalachia, L.L.C.	18.00%	22/408
		Jeffrey P. Jackfert, his Agent and Attorney in Fact, by Power of Attorney dated January 9, 2004	SWN Production Company, LLC		30/480
		Jeffrey P. Jackfert, a single man	Chesapeake Appalachia, L.L.C.	18.00%	22/413
			SWN Production Company, LLC		30/480
30)	3-B32-64 ✓	Steve D. Martino and Mary Christine Martino, husband and wife		18.00%	22/302
,		,	SWN Production Company, LLC		30/480
31)	3-B32-62	Joseph Jackfert, a widower, appearing herein by and through	Chesapeake Appalachia, L.L.C.	18.00%	22/408
,		Jeffrey P. Jackfert, his Agent and Attorney in Fact, by Power of	SWN Production Company, LLC		30/480
		Attorney dated January 9, 2004			

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 601H
Brooke County, West Virginia

		Jeffrey P. Jackfert, a single man	Chesapeake Appalachia, L.L.C.	18.00%	22/413
	,		SWN Production Company, LLC		30/480
32)	3-B32-57 🗸	Joseph Jackfert, a widower, appearing herein by and through	Chesapeake Appalachia, L.L.C.	18.00%	22/408
		Jeffrey P. Jackfert, his Agent and Attorney in Fact, by Power of Attorney dated January 9, 2004	SWN Production Company, LLC		30/480
		Jeffrey P. Jackfert, a single man	Chesapeake Appalachia, L.L.C.	18.00%	22/413
	,		SWN Production Company, LLC		30/480
33)	3-B32-52 √	Christopher Snoderly and Jacqueline Snoderly, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	22/403
			SWN Production Company, LLC		30/480
34)	3-B32-3 /	Robert A. Petruccioli and Marie Elizabeth Petruccioli, husband	Chesapeake Appalachia, L.L.C.	18.00%	25/326
	V	and wife (Life Tenants), and Ronald A. Petruccioli, divorced and unremarried (Remainderman)	SWN Production Company, LLC		30/480
35)	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
36)	3-B27R-50 🗸	William Kisner, a single man	SWN Production Company, LLC	18.00%	42/452
37)	3-B27P-31 √	William Kisner, a single man	SWN Production Company, LLC	18.00%	42/452



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

October 19, 2020

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

/

RE: SWN's proposed New Well: John Good Jr. BRK 601H in Brooke County, West Virginia, Drilling under Greens Run Road, McCord Hill Road, McAdoo Ridge Road, Pierce Run Road, Irish Estates, and Bethany Pike.

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 Greens Run Road, McCord Hill Road, McAdoo Ridge Road, Pierce Run Road, Irish Estates, and Bethany Pike. 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

John D. Startz

Technical Expert Landman

SWN Production Company, LLC

R2 W+°

4700900324

☐ RECEIVED

☐ RECEIVED

OCT 27 2020

STATE OF WEST-VIRGINIA DEPARTMENT OF ENVIRONMENT AND GAS NOTICE CERTIFICATION

	•	NOTICE CERTIFICATI	UN			
Date of Notic	ce Certification: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		API No. 47	- 009 -		
	- Jac				Good Jr. BRK 601H	
	•			ame: John Go		
Notice has b	been given:					
	ne provisions in West Virginia Code	§ 22-6A, the Operator has prov	vided the rea	uired parties w	rith the Notice Forms listed	t
	tract of land as follows:	3 F P P		.		
State:	West Virginia	TITM NIAD 02	Easting:	535694.710		
County:	009- Brooke	UTM NAD 83	Northing:	4452682.043		
District:	Buffalo	Public Road Acc	ess:	McAdoo Ridge Ro	pad	
Quadrangle:	Bethany & Steubenville East	Generally used fa	arm name:	John Good Jr.		
Watershed:	Upper Ohio South					
requirements Virginia Code	surface owner notice of entry to su of subsection (b), section sixteen o e § 22-6A-11(b), the applicant shall t have been completed by the applican	of this article were waived in tender proof of and certify to t	writing by 1	the surface ow	mer; and Pursuant to Wes	st
	West Virginia Code § 22-6A, the Operator has properly served the require		his Notice Co	ertification		
*PLEASE CHE	ECK ALL THAT APPLY				OOG OFFICE USE ONLY	
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIR SEISMIC ACTIVITY WAS			RECEIVED/ NOT REQUIRED	
■ 2. NO	TICE OF ENTRY FOR PLAT SURV	VEY or NO PLAT SURV	EY WAS CO	ONDUCTED	☐ RECEIVED	
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED NOTICE OF ENTRY FOR WAS CONDUCTED or			☐ RECEIVED/ NOT REQUIRED	
		☐ WRITTEN WAIVER (PLEASE ATTACH)		CE OWNER		
■ 4. NO'	TICE OF PLANNED OPERATION				☐ RECEIVED	

Required Attachments:

5. PUBLIC NOTICE

■ 6. NOTICE OF APPLICATION

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

Certification of Notice is hereby given

THEREFORE, I Brittany Woody , have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A. I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator: SWN Production Co., LLC

By: Brittany Woody

Its: Senior Regulatory Analyst

Telephone: 304-884-1610

1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

Facsimile: 304-884-1690

Email: Brittany_Woody@swn.com

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
JESSICA L. VANGILDER
SWN Production Company, LLC
1300 Forf Perport Dr., Suite 2/1, Morganism, UV 25500
My Commission Expires July 24, 2025

Subscribed and sworn before me this 3

of Aug., 2020

Notary Public

My Commission Expires 7-24-3

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 departing of the privacy
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WW-6A (9-13) API NO. 47=009 0 0 9 0 0 8 2 4

OPERATOR WELL NO. John Good Jr. BRK 601H

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 Require	ment: nouce shall be provi	ded no later than the thing date of permit application.
Date of Notice: 10 1	Date Permit Applica	tion Filed: 10 au
PERMIT FOR A	NY CERTIFI	CATE OF APPROVAL FOR THE
WELL WORK		RUCTION OF AN IMPOUNDMENT OR PIT
Delivery method purs	suant to West Virginia Co	de § 22-6A-10(b)
PERSONAL	☑ REGISTERED	☐ METHOD OF DELIVERY THAT REQUIRES A
SERVICE	MAIL	RECEIPT OR SIGNATURE CONFIRMATION
sediment control plan re the surface of the tract of oil and gas leasehold be described in the erosion operator or lessee, in the more coal seams; (4) The well work, if the surface impoundment or pit as of have a water well, sprin provide water for consu- proposed well work act subsection (b) of this se- records of the sheriff re- provision of this article Code R. § 35-8-5.7.a re-	equired by section seven of the proposition of the well is or is proving developed by the proposition and sediment control plants are event the tract of land on where the control of the set of the proposition of the set of the proposition of the set of the proposition of the pro	quires a receipt or signature confirmation, copies of the application, the erosion and his article, and the well plat to each of the following persons: (1) The owners of record of posed to be located; (2) The owners of record of the surface tract or tracts overlying the sed well work, if the surface tract is to be used for roads or other land disturbance as submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, which the well proposed to be drilled is located [sic] is known to be underlain by one or reface tract or tracts overlying the oil and gas leasehold being developed by the proposed lacement, construction, enlargement, alteration, repair, removal or abandonment of any this article; (5) Any surface owner or water purveyor who is known to the applicant to ated within one thousand five hundred feet of the center of the well pad which is used to stic animals; and (6) The operator of any natural gas storage field within which the firmore than three tenants in common or other co-owners of interests described in hids, the applicant may serve the documents required upon the person described in the quant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any ten holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. attor shall also provided the Well Site Safety Plan ("WSSP") to the surface owner and any the water testing as provided in section 15 of this rule.
☑ Application Notice	e ☑ WSSP Notice ☑ E&	S Plan Notice Well Plat Notice is hereby provided to:
☑ SURFACE OWNER		COAL OWNER OR LESSEE
Name: John P. Good Jr. Irre		Name: Consolidation Coal Company Attn: Casey Saunders
Address: 1204 McAdoo Ri	idge Road	Address: 1000 Consol Energy Drive
Wellsburg, WV 26070		Canonsburg, PA 15317
Name:		COAL OPERATOR
Address:		
E CLIDE & CE OWNIEL	2/a) /Dand and/or Other Di	Address:
and the second of the second o	R(s) (Road and/or Other Di	
Name:		= 1
Address:		
		OPERATOR OF ANY NATURAL GAS STORAGE FIELD
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Name:		Address:
Address:		
		*Please attach additional forms if necessary

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OPERATOR WELL NO, John Good Jr. BRK 601H

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 Requir	ement: notice shall be prov	ided no later than the filing date of permit application.
Date of Notice:	Date Permit Applica	tion Filed: Wall
PERMIT FOR WELL WORK		ICATE OF APPROVAL FOR THE RUCTION OF AN IMPOUNDMENT OR PIT
Delivery method pu	rsuant to West Virginia C	ode § 22-6A-10(b)
PERSONAL SERVICE	✓ REGISTERED MAIL.	☐ METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION
registered mail or by a sediment control plan the surface of the tract oil and gas leasehold a described in the erosic operator or lessee, in the more coal seams, (4) well work, if the surfaimpoundment or pit as have a water well, spr provide water for comproposed well work as subsection (b) of this records of the sheriff provision of this article Code R. § 35-8-5.7.a	any method of delivery that re- required by section seven of ton which the well is or is pro- being developed by the propo- on and sediment control plan- the event the tract of land on a The owners of record of the si- ace tract is to be used for the p- side described in section nine of ing or water supply source loo- sumption by humans or dome ctivity is to take place. (c)(1) section hold interests in the la- required to be maintained pur- le to the contrary, notice to a la- requires, in part, that the ope	poundment or pit as required by this article shall deliver, by personal service or by quires a receipt or signature confirmation, copies of the application, the erosion and this article, and the well plat to each of the following persons: (1) The owners of record of posed to be located; (2) The owners of record of the surface tract or tracts overlying the sed well work, if the surface tract is to be used for roads or other land disturbance as submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, which the well proposed to be drilled is located [sic] is known to be underlain by one or urface tract or tracts overlying the oil and gas leasehold being developed by the proposed placement, construction, enlargement, alteration, repair, removal or abandonment of any this article; (5) Any surface owner or water purveyor who is known to the applicant to cated within one thousand five hundred feet of the center of the well pad which is used to stic animals; and (6) The operator of any natural gas storage field within which the lift more than three tenants in common or other co-owners of interests described in ands, the applicant may serve the documents required upon the person described in the suant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any licenholder is not notice to a landowner, unless the lienholder is the landowner. W. Va. rator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any and water testing as provided in section 15 of this rule.
		&S Plan Notice
SURFACE OWN		☑ COAL OWNER OR LESSEE Name: Starvaggi Industries, Inc.
		Address: 401 Pennsylvanja Ave
Address:		Weirton, WV 26062
Name:		COAL OPERATOR
		Address:
SURFACE OWN	ER(s) (Road and/or Other D	isturbance)
Name:		☐ SURFACE OWNER OF WATER WELL
Address:		AND/OR WATER PURVEYOR(s)
		Name:
Name:		Address:
Address:		
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OPERATOR WELL NO. John Good Jr. BRK 601H

Well Pad Name: John Good Jr. BRK

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two bundred 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

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Pursual to from Virginia Code § 22-1A-10(b), notice is hereby given that the undersigned well operator has applied for a penalt for ell-code for a penalt for ell-code of approved for the construction of an improvedment or pit.

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Pursuant to M. Va. Code § 22 (A) 0(b), this notice shall include (1) copies of the application; (2) the erosion and sodation (operal) plan ray and by security security arriefly and (3) the well plan.

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API NO. 47-009 OPERATOR WELL NO. John Good Jr. BRK 601H
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 57th St. SE Charleston, WV 25304 (304) 926-0450

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

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WW-6A (8-13) API NO. 47-009

OPERATOR WELL NO. John Good Jr. BRK 601H

Well Pad Name: John Good Jr. BRK

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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WW-6A (8-13)

API NO. 47-009 OPERATOR WELL NO. John Good Jr. BRK 601H Well Pad Name: John Good Jr. BRK

Notice is hereby given by:

Buttomy Moody Well Operator: SWN Production Co., LLC

Telephone: 304-884-1610 Email: Brittany_Woody@swn.com Address: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

Facsimile: 304-884-1690

Oil and Gas Privacy Notice:

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



Subscribed and sworn before me this 31 st day of Aug. 2020

Coolca L. Van Milder Notary Public My Commission Expires

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

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Name: John P. Go					solidation Coal Company	Attn: Casey Saund	ers
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Wellsburg, WV 26070	1			Janonsburg, F	A 10317		
Name:			-	I MINE	ERAL OWNER(s)		
Address:			_		n P. Good Jr. Irrevocable 1	nuet /	
Name:					1204 McAdoo Ridge Road		
Address:				Wellsburg, WA			
				please attac	h additional forms if ne	cessary	
a plat survey on State: V County: E	st Virginia Co		App Pub		ude & Longitude:	operator is p 40.223798, -80. McAdoo Ridge R Middle Buffalo C	Road
	ethany				d farm name:	John Good Jr.	Total .
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Notice is here	hy given by	r					OCT 2 7 2020
Well Operator:		TION COMPANY, LLC	A	ddress:	1300 Fort Pierpont Dr.,	Suite 201	M. M. 1 M
Telephone:	304-884-1610				Morgantown, WV 26508		WV Department of Environmental Protection
Email:	Brittany_Woody	നുടയവ com	F	acsimile:	304-884-1690		EDVIRONHERINGE TO CONTROL
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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.

STATE OF MEST VIROLINGS DEPARTMENT OF SENSIBLY OF ALL PROVECTION, OFFICE OF OUR RED GAS

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WW-6A3 (1/12)

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

entry Date of Notice:	5/13/2020	Date of Plan	nned Entry: 5/20/2020				
Delivery metho	od pursuant to	West Virginia C	ode § 22-6A-10a				
□ PERSONA SERVICE		REGISTERED MAIL	☐ METHOD OF RECEIPT OR S		VERY THAT RE		
on to the surface but no more that beneath such tra owner of minera and Sediment C Secretary, whice	e tract to condu in forty-five day act that has filed als underlying s Control Manual th statement sha	act any plat surveys ys prior to such end d a declaration pur such tract in the co and the statutes an	s required pursuant to the ry to: (1) The surface of suant to section thirty-sunty tax records. The number of rules related to oil and information, including the section of the section o	wner ix, art iotice d gas	icle. Such notice s of such tract; (2) t ticle six, chapter to shall include a sta exploration and pro-	hall be poor o any own venty-two tement the oduction	rovide notice of planned entry rovided at least seven days mer or lessee of coal seams to of this code; and (3) any mat copies of the state Erosion amay be obtained from the es Secretary's web site, to
Notice is hereb	y provided to:	N					
SURFACE	OWNER(s)		• 0	OAL	OWNER OR LE	SSEE	1
			Name	Starv	aggi Industries, Inc.		
			Addre		01 Pennsylvania Avenue		
Name:			_	, VV 20	0002		
Address:				MNE	RAL OWNER(s)		
Name:			Addre	ess:			
Address:			*please	attach	additional forms if ne	cessary	
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_	Buffalo		Watershe				ffalo Creek
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may be obtaine Charleston, WV obtained from t	d from the Secr V 25304 (304-9 the Secretary by	retary, at the WV I 926-0450). Copies	Department of Environn	nental additi	Protection headque on al information r	uarters, Id	s exploration and production ocated at 601 57 th Street, SE, horizontal drilling may be RECEIVED Office of Oil and Gas
Notice is here	eby given by:		9.52				The state of the s
	SWN PRODUCTIO	ON COMPANY, LLC	Addres	SS.	1300 Fort Pierpont Dr.,		OCT 2 7 2020
Well Operator:	The state of the s						
	304-884-1610 Brittany_Woody@s		Facsin	ile	Morgantown, WV 26508 304-884-1690	3	WW Department of

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.

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WW-6A4 (1/12)

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

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

Notice Time Date of Notic	Requirement: Notice shall be provide: 09/01/2020 Date	ded at least TEN (10) days prior to filing a e Permit Application Filed:	permit application.	
Delivery met	hod pursuant to West Virginia Cod	le § 22-6A-16(b)		
☐ HAND	■ CERTIFIED MAIL			
		DEALECTED		
DELIVE	RY RETURN RECEIPT	REQUESTED		
receipt request drilling a hori of this subsect subsection mand if availab	ted or hand delivery, give the surface zontal well: <i>Provided</i> , That notice g tion as of the date the notice was prov by be waived in writing by the surface	en days prior to filing a permit application, e owner notice of its intent to enter upon the given pursuant to subsection (a), section to vided to the surface owner: <i>Provided</i> , how e owner. The notice, if required, shall include nail address of the operator and the operator	the surface owner's land for the purpose of the of this article satisfies the requirements wever. That the notice requirements of this ude the name, address, telephone number.	
	Good Jr. Irrevocable Trust			
	McAdoo Ridge Road	Address:		
Wellsburg, WV 26				
State: County:	West Virginia Brooke	UTM NAD 83 Easting: Northing:	535,694.710 4,452,682.043	
District:	Buffalo	Public Road Access:	McAdoo Ridge Road	
Quadrangle:	Bethany WV & Steubenville East OH	Generally used farm name:	John P. Good Jr BRK	
Waterchen				
Pursuant to Y facsimile nur related to ho	nber and electronic mail address of izontal drilling may be obtained from	this notice shall include the name, addr the operator and the operator's authorize in the Secretary, at the WV Department of 304 (304-926-0450) or by visiting www.de	ed representative. Additional information of Environmental Protection headquarters,	
This Notice Pursuant to V facsimile nur related to hor located at 60	Shall Include: West Virginia Code § 22-6A-16(b), her and electronic mail address of izontal drilling may be obtained from 57th Street, SE, Charleston, WV 25	the operator and the operator's authorize	ed representative. Additional information of Environmental Protection headquarters,	
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Oil and Gas Privacy Notice:

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STATE OF WEST VINGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS NOTICE OF THE PROTECT TO DRAW

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4700 900 3 0 3 2 4 Operator Well No. John Good Jr BRIK 60/H

WW-6A5 (1/12)

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

Date of Notic	ge: Usion2020 Date Po	ermn A	pplication Filed:	olara	
Delivery met	hod pursuant to West Virginia	Code §	22-6A-16(c)		
CERTI	FIED MAIL		HAND		
RETUI	RN RECEIPT REQUESTED		DELIVERY		
return receipt the planned of required to be drilling of a damages to the (d) The notice of notice.	requested or hand delivery, give operation. The notice required be provided by subsection (b), section reconstruction (c) and (d) and	the surfa y this s on ten o sed surfa operation e given	ace owner whose lan- ubsection shall inclu- if this article to a surf- ace use and compen- ns to the extent the da- to the surface owner	d will be used for de: (1) A copy ace owner whose sation agreement amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
(at the addres	s listed in the records of the sherif		time of notice):		
	Good Jr. Irrevocable Trust		Name:		
Address: 1204 Wellsburg, WV 26	McAdoo Ridge Road	-	Addres	S:	
operation on State: County:	the surface owner's land for the p West Virginia Brooke		of drilling a horizonta	Easting: Northing:	535,694.710 4,452,682.043
District:	Buffalo		Public Road		McAdoo Ridge Road
Quadrangle:	Bethany WV & Steubenville East OH		Generally us	ed farm name:	John Good Jr BRK
Watershed:	Upper Ohio South		_		
Pursuant to V to be provide horizontal we surface affect information in	ed by W. Va. Code § 22-6A-10(ell; and (3) A proposed surface us ted by oil and gas operations to t related to horizontal drilling may located at 601 57th Street, SE,	b) to a e and co the exter be obta	surface owner whos empensation agreement the damages are called from the Secre-	e land will be ont containing an ompensable und tary, at the WV	code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional / Department of Environmental Protection) or by visiting

needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact

DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Office of Oil and Co.



STATE OF VEST VIRGINIA DEFANIMENT OF ESVIEDNIEVEAL FROM LODING OF OIL AND GAS NOTICE OF GLANNEW OFFICE OF OIL AND GAS

El HAND RETURN LONG EPT REQUESTED CHURCH NOW FOR SHAPE (SECTION OF SHAPE) Church receirt requested of head delivery give instantion of met yelos the planned operation. The motion received by this subservious shall control to be presented by subsection (b) we must ten of this emidle to: control to be received as subsection (b) we must ten of this emidle to: subsect of a boson management (b) A proposed purious and consistency of the extent of the control of the c		
RETURN LINE (1991 REQUESTED) Througant to W. Vin (Linder § 22-first-16(c), no liner than the class for Similar requested or head delivery, give the surface owner velocities relation to the planned operation of this reference shadt agained for he presented by this encounter of this mucie to a subling of a formation (b) sources to definite mucie to a whing of a formation (b) source and the mucie to a strong of a formation with (b) A proposed surface use and containing of a formation by the containing to the extense.		
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d), the norices required by this section and L. gipan to the auchies or Course	e iend will be used for i usdude (1) A bong of i surfere os not strose i upersolige agreement o the damages are compet	r de delling of a horizonial v of this code section; (2: The clim fault be inclim rogima t comming an offer of comp sensible inflor attists six k of
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A three control of the control of th		Fig. 19 St. Commission
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turnumi to West Virginia Code § 22 nA-(650), this notice shall include to be provided by M. Va. Cude § 12-03-10(b) to a surface owner narkonal well, and (2) A proposed surface use and composation agrantice afflored by oil and gas gas operations to the extern the damages obtained to berinded, artificing may be obtained from the natural agrant of sortions of M. Stort ST. Charleston, W.V. 22	Abese land will be not gement constrainty as o are compensable subjection.	sed in conjunction with the offer of congensation for disease article six-b of this chapte. Department of bavironiquit
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The Office of Calland Ges processes you pies and information, such as name, whitess and information as part of our regulators duries. Your personal information has be discreted to other Effect and that of the personal information has been seen as accept to comply with statutery or regulatory requirements including treedom of information. Accretioners. Our office will appropriately esture your personal facturation. If you have any questions about his or your personal information if you have any questions about his or your personal information. If you have any questions about his or your personal information. If you have any questions about his or your personal information.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

September 2, 2020

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

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

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

Subject: DOH Permit for the John Good Jr Pad, Brooke County
John Good Jr BRK 601H 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

Dary K. Clayton

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

OCT 2 7 2020

WV Department of Environmental Protection

OPERATOR:	SWN Production Co., LLC	WELL NO: John Good Jr. BF	RK 601H
PAD NAME:_	John Good Jr. BRK		i -
REVIEWED F	3Y:	_ SIGNATURE: BULLINIY	Noodly
	WELL RESTRICTI	ONS CHECKLIST	
	HORIZONTA		
Well Restric	ctions	* Pad Built	3/20/12
	At Least 100 Feet from Pad and LOD (Perennial Stream, Lake, Pond, Reservo DEP Waiver and Permit Conditi	ir or Wetland; OR) to any
	At Least 300 Feet from Pad and LOD (Naturally Producing Trout Stream; OR	and the property of the proper) to any
	DEP Waiver and Permit Conditi	ons	
	At Least 1000 Feet from Pad and LOD Groundwater Intake or Public Water St DEP Waiver and Permit Condit	apply; OR	e) to any
\checkmark	At Least 250 Feet from an Existing War Drilled; OR		ell Being
	Surface Owner Waiver and Rec	corded with County Clerk, OR	
	DEP Variance and Permit Cond	litions	
	At Least 625 Feet from an Occupied D	welling Structure to Center of the Pa	ad; OR
	Surface Owner Waiver and Rec	corded with County Clerk, OR	
	DEP Variance and Permit Cond	litions	
	At Least 625 Feet from Agricultural Bu of the Pad; OR	uildings Larger than 2500 Square Fe	et to the Center
	Surface Owner Waiver and Rec	corded with County Clerk, OR	Office of Oil and Gas
	DEP Variance and Permit Cond	litions	OCT 27 2020
			WV Department of Environmental protection

W. L. NO. Julia 1900 area 1900 Billian	OPERATOR SYMPROGRAMMENT LLG
	PAU NAME: John Sodun BRA
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	enominate in it
cluding any E&S Courol Feature) to any or Wedand, OR	At Least 100 Feet from Pad and LOD (in Perundal Stream, Lake, Pond, Reservoir
	DIP Web a and Permit Condition
eluding any E&S Control Feature to any	At Least 360 Feet from Pad and LOD (in Naturally Frontiering Troub Streams OR
	DEP Waiver and Permit Condition
nchidiag any E.K.S Control Feature) to any phy: OR	Groundwriter limited of Public Water Sup
	LEE Wasser and Permit Condition
r Well or Developed Spring to Well-Being	V 2 At Least 250 Feet from an Existing Water Drilled; OR
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	DEP Vanance and Parinit Coach
whing Structure to Center of the Part, OR	At Loast 625 Feet from an Occupied Dw
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rdad waar County Clerk, OR	Surrace Owner Waiver and Reco
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Al-303 (U.S. Well Services)	Product Use Mixture	Ethylene glycol	107-21 1
		Cinnamaldehyde	104-55 2
		Butyl cellosolve	111-76 2
		Formic acid	64-18 6
		Polyether	Proprietary
		Acetophenone, thiourea, formaldehyde polymer	68527-49 1
AP ONE (U.S. Well Services)	Breaker	Ammonium persulfate	7727-54-0
Bactron K-139 (Champion Technologies)	Biocide	Glutaraldehyde	111-30-8
and the second second second second		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
ozaci zm. k. 225 (onamijeram realmente)	Discussion .	Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
CarboNRT	Tracer	Ceramic Proppant	66402-68-4
	Scale Inhibitor		
EC6486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate Ethylene Glycol	Proprietary
	- Control		107-21-1
EC6734A (Champion Technologies)	Biocide	Hydrogen Peroxide	7722-84-1
		Acetic Acid	64-19-7
		Peroxyacetic Acid	79-21-0
Econo-Cl200 (SWN Well Services)	Corrosion Inhibitor	Methanol Ovvally/lated fatty acid RECEIVED	67-56-1
		Constitution and Grant Constitution of Grant	68951-67-7
		Fatty acids Office of Oil and Gas	61790-12-3
		Modified thiourea polymer	68527-49-1
		Water Hydrochloric acid OCT 27 2020	7732-18-5
			7647-01-0
		Potassium acetate	127-08-2
		Formaldehyde NAVA Depositment of	50-00-0
Ecopol-FEAC (SWN Well Services)	Iron Control	Acetic Acid WV Department of	64-19-7
Annual Control of the		Citric Acid Environmental Protection	77-92-9
		Water	7732-18-5
FDP-S1176-15 (Halliburton)	Friction Reducer	Polyacylate	Proprietary
		Hydrotreated light petroleum distillate	64742-47-8
FLOJET DR900 LPP (SWN Well Services)	Friction Reducer	Distillates (petroleum) hydrotreated light	64674-47-8
LOSE! DISGO EN (SANT THEIR SELVICES)	Trictor neaded	Ethylene Glycol	107-21-1
		Alcohols, C12-16, Exoxylated propoxylated	68213-24-1
		Fatty Alcohols ethoxylated	Proprietary
		Water	7732-18-5
FLOURT DDD 1120V (EWN Well Spring)	Friction Reducer	Proprietary	Proprietary
FLOJET DRP 1130X (SWN Well Services)			64742-47-8
FR-76 (Halliburton)	Friction Reducer	Hydrotreated light petroleum distillate	Proprietary
	* V 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Inorganic Salt	
GYPTRON T-390 (Champion Technologies)	Scale Inhibitor	Methanol Standard Standard	67-56-1
		Nonylphenol Ethoxylate	Proprietary
HAI-150E (Halliburton)	Corrosion Inhibitor	No hazardous substance	N/A
HCL (SWN Well Services)	Hydrocholic Acid	Hydrochloric Acid	7647-01-0
		Water	7732-18-5
LP-65 MC (Halliburton)	Scale Inhibitor	Organic phosphonate	Proprietary
		Ammonium Chloride	12125-02-9
OPTI-FLEX (U.S. Well Services)	Viscosifying Agent	Distillates, petroleum, hydrotreated light	64742-47-8
Plexslick 930	Friction Reducer	Copolymer of 2-propenamide	Proprietary
		Hydrotreated Distillate	64742-47-8
		Sodium Chloride	7647-14-5
		Alcohols, C12-16, Exoxylated	68551-12-2
		Oleic Acid Diethanolamide	93-83-4
		Ammonium Chloride	12125-02-9
Plexslick 953	Friction Reducer	Petroleum Distillate	64742-47-8
FIEXSIER 533	Triction Reduces	Spdium Chloride	7647-14-5
		Ammonium Chloride	12125-02-9
		N,N-bis (2-hydroxyethyl) oleamide	93-83-4
		THE PERSON OF THE PROPERTY OF THE PERSON OF	
Disvisible 057	Eriotion Badwar-	Patroleum Distillate	64747-47-9
Plexslick 957	Friction Reducer	Petroleum Distillate	64742-47-8
Plexslick 957	Friction Reducer	Ammonium Chloride	12125-02-9
Plexslick 957	Friction Reducer	Ammonium Chloride Oleic Acid Diethanolamide	12125-02-9 93-83-4
Plexslick 957	Friction Reducer	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated	12125-02-9 93-83-4 68551-12-2
	370-3-1	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water	12125-02-9 93-83-4 68551-12-2 7732-15-5
	370-3-1	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Hydrotreated light distillate (petroleum)	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8
WFRA-2000 (U.S. Well Services)	Anionic Friction Reducer	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9
WFRA-2000 (U.S. Well Services) Plexaid 655 NM	Anionic Friction Reducer	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid)	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8
WFRA-2000 (U.S. Well Services) Plexaid 655 NM	Anionic Friction Reducer	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4
WFRA-2000 (U.S. Well Services) Plexaid 655 NM	Anionic Friction Reducer	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8
WFRA-2000 (U.S. Well Services) Plexaid 655 NM	Anionic Friction Reducer	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI)	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9
WFRA-2000 (U.S. Well Services) Plexaid 655 NM Plexslick 922	Anionic Friction Reducer Scale Inhibitor no data available	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4
WFRA-2000 (U.S. Well Services) Plexaid 655 NM Plexslick 922	Anionic Friction Reducer	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)Cl) Oleic Acid Diethnolamide Tetrakis (hydroxymethyl) phosphonium sulphate	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9
WFRA-2000 (U.S. Well Services) Plexaid 655 NM Plexslick 922	Anionic Friction Reducer Scale Inhibitor no data available	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8
WFRA-2000 (U.S. Well Services) Plexaid 655 NM Plexslick 922 Tolcide PS50A	Anionic Friction Reducer Scale Inhibitor no data available Biocidal product	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8
WFRA-2000 (U.S. Well Services) Plexaid 655 NM Plexslick 922 Tolcide PS50A	Anionic Friction Reducer Scale Inhibitor no data available	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups Hydrotreated light petroleum distillate	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8
WFRA-2000 (U.S. Well Services) Plexaid 655 NM Plexslick 922 Tolcide PS50A	Anionic Friction Reducer Scale Inhibitor no data available Biocidal product	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8
Plexslick 957 WFRA-2000 (U.S. Well Services) Plexaid 655 NM Plexslick 922 Tolcide PS50A	Anionic Friction Reducer Scale Inhibitor no data available Biocidal product	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups Hydrotreated light petroleum distillate Ethoxylated alcohol	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8 397256-50-7 64742-47-8 Proprietary
WFRA-2000 (U.S. Well Services) Plexaid 655 NM Plexslick 922 Tolcide PS50A	Anionic Friction Reducer Scale Inhibitor no data available Biocidal product Friction Reducer	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)Cl) Oleic Acid Diethnolamide Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups Hydrotreated light petroleum distillate Ethoxylated alcohol Poly (oxy-1.2-ethanediyl) alphatridecylomegahydroxy-, branched	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8 397256-50-7 64742-47-8 Proprietary 69011-36-5
WFRA-2000 (U.S. Well Services) Plexaid 655 NM Plexslick 922 Tolcide PS50A	Anionic Friction Reducer Scale Inhibitor no data available Biocidal product	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups Hydrotreated light petroleum distillate Ethoxylated alcohol	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8 397256-50-7 64742-47-8 Proprietary

BROOKE COUNTY, WY HIGHWAY MAP LOCATION PROJECT

SOUTHWESTERN ENERGY

AS-BUILT PLANS FOR THE JOHN GOOD JR. BRK PAD "A"

BROOKE COUNTY, WV JANUARY 2016

DISTURBANCE SUMMARY

13.22 8.63

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

SHEET INDEX

DESCRIPTION
TITLE SHEET
EVACUATION ROUTEPREVAILING WINDS
AS-BUILT OVERVIEW
AS-BUILT ACCESS ROAD PLAN & PROFILE
AS-BUILT WELL PAD PLAN
AS-BUILT WELL PAD PLAN

RECLAMATION PLAN
RECLAMATION GENERAL NOTES
RECLAMATION DETAILS
DETAILS

PROJECT NOTES

1. PORTIONS OF THE ORIGINAL AS-BUILT SURVEY OF THIS SITE PROVIDED BY BOORD, BENCHECK & ASSOCIATES, INC (BBA) TO CHESAFEAKE 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, ERGSION AND SEDIMENT CONTROLS, ETC. EXISTING ROAD EDGES, WELL PAD EDGE, GAS PRODUCTION EQUIPMENT,

EASI THO ROAD EGGES, WELL YAD EUGE, UAS PRODUCTION EQUIPMENT, ABOVE GROUND PIPING, STORM WATER FRATURES, ETC. WERE VERIFIED AND AS-BUILT BY THRASHER IN DECEMBER 2015 AND IANUARY 2016.

THE COORDINATE SYSTEM USED FOR THIS PROJECT IS UTM WITH NADS:

DATUM, ZONE 17, US FOOT: CENTRAL MERIDIAN 81dW.

LOCATION HIGHWAY MAP SCALE LE EAST ONIO QUAD MAP



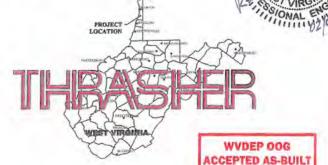
VICINITY MAP SCALE

- PROJECT LOCATION JOHN GOOD JR BRK PAD "A" WELLS EXISTING WELL 5H: APIN 47-009-00124 EXISTING WELL 8H: API# 47-009-00113

PROJECT COORDINATES

AS-BUILT ACCESS ROAD BEGINNING WV83-N Latitude = N 40.231833° WV83-N Loegitude = W 80.582250° UTM 83-17 Northing = 14511429,470 ft. UTM 83-17 Easting = 1757011,518 ft.

AS-BUILT CENTER OF WELL PAD WV83-N Latitude = N 40,223944° WV83-N Longitude = W 80,580722° UTM 83-17 Northing = 14508558.652 R UTM 83-17 Easting = 1757451.564 R.



7 / 31 / 2020

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

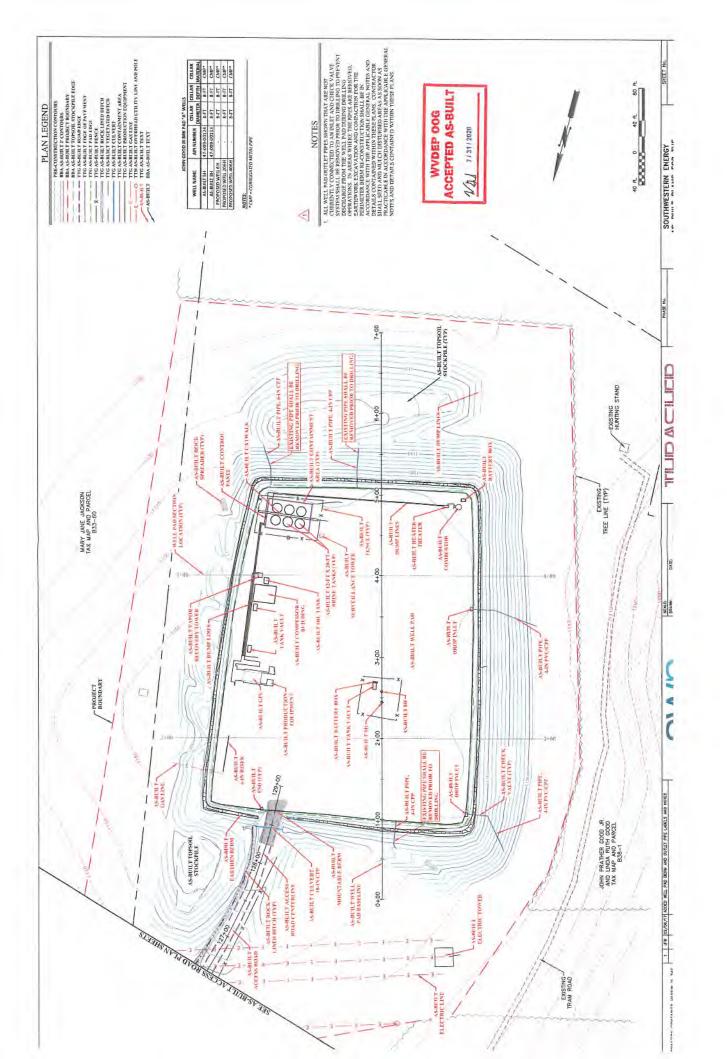
ONE CALL UTILITY SYSTEM CONTACT INFO

WEST VIRGINIA 81

CONTRACTOR SHALL NOTIFY THE ONE-CALL SYSTEM OF THE DISTRIBUDE EXCAVATION OR DEMOLITION NOT LESS THAN PORTY-BIGIT (48) HOURS, EXCLUDIONS ANTIBLAYS, SINDAYS AND LEGAL PEDERAL OR STATE HOUDDAYS, NOR MORE THAN TEN (18) WORK DAY'S PRIOR TO THE BEGINNING OF SUCH WORK.

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

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BROOKE COUNTY, WV HIGHWAY MAP

HIGHWAY MAP SCALE

NVILE EAST OHIO QUAD MAP

SOUTHWESTERN ENERGY OCT 27 2020

AS-BUILT PLANS FOR THE Department of

JOHN GOOD JR. BRK PAD A

BROOKE COUNTY, WV JANUARY 2016 SWIN Southwestern Energy

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

ENTRANCE LOCATION

LOCATION

- ENTRANCE LOCATION

- PROJECT

LOCATION

PROJECT COORDINATES

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

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JOHN GOOD JR BRK PAD "A" WELLS

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



ONAL E

SHEET INDEX

SHEET	DESCRIPTION		
1	TITLE SHEET		
2-3	EVACUATION ROUTE/PREVAILING WINE		
	A POT TO SE POR SERVICE COMMENT		

4 AS-BUILT OVERVIEW
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



PROJECT NOTES

 PORTIONS OF THE ORIGINAL AS-BUILT SURVEY OF THIS SITE PROVIDED BY BOORD, BENCHECK & ASSOCIATES, INC (BBA) TO CHESAFEAKE APPALACHIA, ILC. IN JUNE 2012 HAVE BEEN INCORPORATED INTO THESE PLANS. THE BHA 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, FITC.

2. 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.

3. THE COORDINATE SYSTEM USED FOR THIS PROJECT IS UTM WITH NAD83

DATUM ZONE 17, US FOOT; CENTRAL MERIDIAN 81dW.



20

Total Contraction of the Contrac

PROJECT

REVISION REVISED BY DATE DESCRIPTION
NUMBER SHEETS BY DATE DESCRIPTION
1 B & JFW 2/8/17
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

WEST VIRGINIA 811

VICINITY MAP SCALE

2000

4000

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

THRASHER

THE THRASHER GROUP, INC.

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

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