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west virginia department of environmental protection

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

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

Wednesday, April 6, 2022  
WELL WORK PERMIT  
Horizontal 6A / New Drill

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

Re: Permit approval for DAVID REINBEAU MSH 3H  
47-051-02439-00-00

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: DAVID REINBEAU MSH 3H  
Farm Name: SHELLY A & DAVID W REINBEAU  
U.S. WELL NUMBER: 47-051-02439-00-00  
Horizontal 6A New Drill  
Date Issued: 4/6/2022

**PERMIT CONDITIONS**

4705102439

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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**CONDITIONS**

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1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number: \_\_\_\_\_

## PERMIT CONDITIONS 4705102439

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to [DEPOOGNotify@wv.gov](mailto:DEPOOGNotify@wv.gov).

04/08/2022

WW-6B  
(04/15)

4705102439  
API NO. 47-051

OPERATOR WELL NO. David Reinbeau MSH 3H

Well Pad Name: David Reinbeau MSH

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

1) Well Operator: SWN Production Co., LLC 494512924 051-MARsha 07-Union 486-Moundsville  
Operator ID County District Quadrangle

2) Operator's Well Number: David Reinbeau MSH 3H Well Pad Name: David Reinbeau MSH

3) Farm Name/Surface Owner: Shelly A & David W. Reinbeau Public Road Access: Sorghum Ridge Road

4) Elevation, current ground: 1251' Elevation, proposed post-construction: 1251'

5) Well Type (a) Gas  Oil  Underground Storage

Other

(b) If Gas Shallow  Deep

Horizontal

6) Existing Pad: Yes or No Yes *MDK 2/23/22*

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Target Formation- Marcellus, Up-Dip well to the North, Target Top TVD- 6314', Target Base TVD- 6367', Anticipated Thickness- 53', Associated Pressure- 4139

8) Proposed Total Vertical Depth: 6356'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 14223'

11) Proposed Horizontal Leg Length: 7471.44'

12) Approximate Fresh Water Strata Depths: 426'

13) Method to Determine Fresh Water Depths: Deepest nearby water well

14) Approximate Saltwater Depths: 883' Salinity Profile

15) Approximate Coal Seam Depths: 765'

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

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

(a) If Yes, provide Mine Info: Name: \_\_\_\_\_

Depth: \_\_\_\_\_

Seam: \_\_\_\_\_

Owner: \_\_\_\_\_

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**4705102439**

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

1) Well Operator: SWN Production Co., LLC

<u>494512924</u>	<u>051-Marshal</u>	<u>07-Union</u>	<u>486-Moundsville</u>
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Other \_\_\_\_\_

(b) If Gas Shallow  Deep \_\_\_\_\_

Horizontal

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14) Approximate Saltwater Depths: 883' Salinity Profile

15) Approximate Coal Seam Depths: 765'

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

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

(a) If Yes, provide Mine Info: Name: Ohio County Mine  
Depth: 765'  
Seam: Pittsburgh  
Owner: American Consolidated Natural Resources

4705102439

API NO. 47- 051 -  
 OPERATOR WELL NO. David Reinbeau MSH 3H  
 Well Pad Name: David Reinbeau MSH

WW-6B  
 (04/15)

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	126'	126'	CTS
Fresh Water	13 3/8"	New	H-40	48#	506'	506'	541 sx/CTS
Coal	See	Interm	Casing				
Intermediate	9 5/8"	New	J-55	36#	2080'	2080'	982 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	14223'	14223'	Tail 435bx/ 100' Inside Intermediate
Tubing							
Liners							

*MJK 2/23/2022*

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	Interm	Casing				
Intermediate	9 5/8"	12 1/4"	0.395	3950	1768	Class A	1.19/40% Excess
Production	5 1/2"	8 3/4"-8 1/2"	0.361	14360	10500	Class A	1.19/5% Excess
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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WW-6B  
(10/14)

4705102439  
API NO. 47-051 -  
OPERATOR WELL NO. David Reinbeau MSH 3H  
Well Pad Name: David Reinbeau MSH

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

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

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 18.42

22) Area to be disturbed for well pad only, less access road (acres): 10.4

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.

\*Note: Attach additional sheets as needed.

4705102439

## CEMENT ADDITIVES

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

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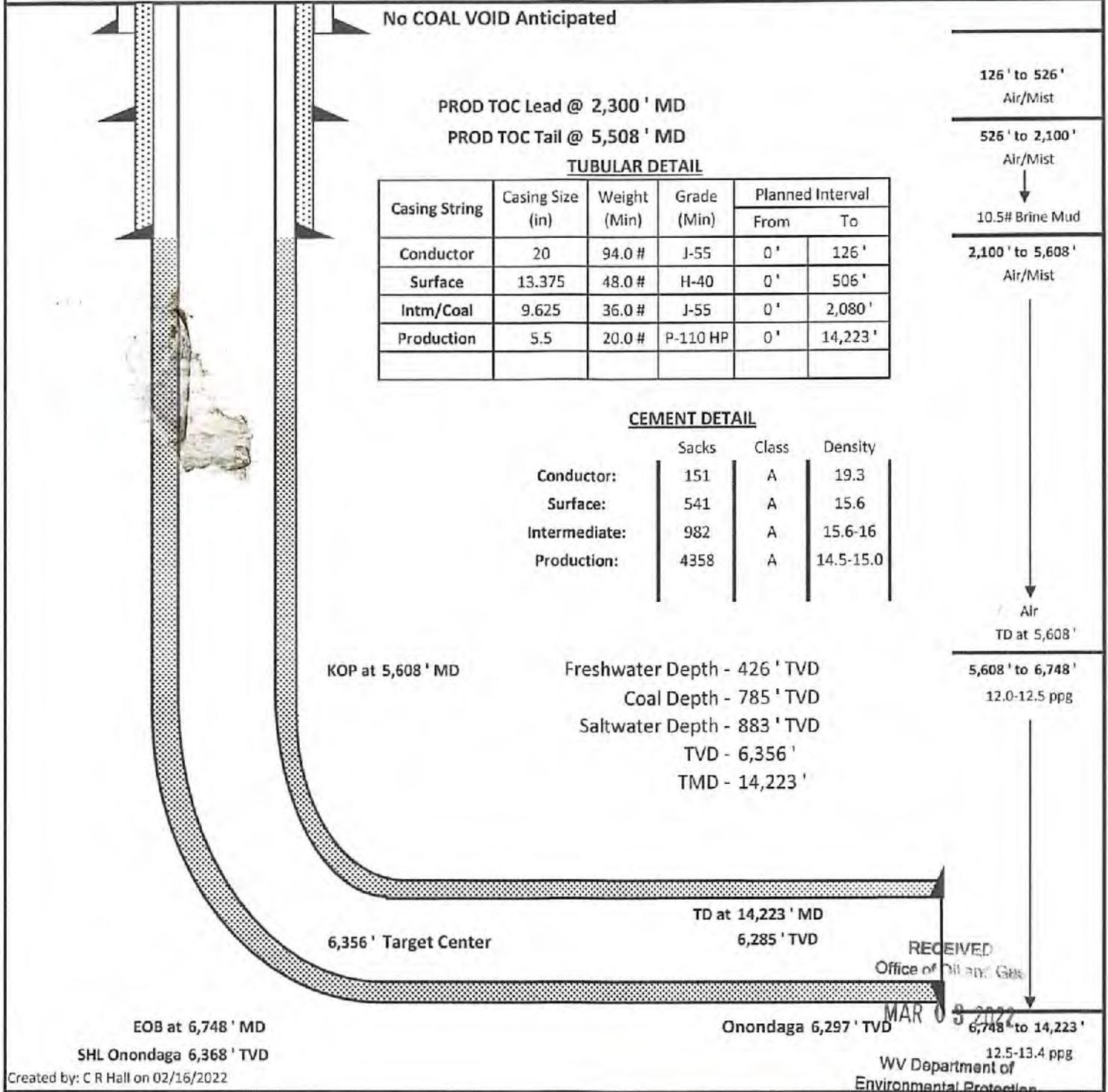
WV Department of  
Environmental Protection

04/08/2022

4705102439

<b>Southwestern Energy Company</b>	<b>Proposed Drilling Program</b>
------------------------------------	----------------------------------

<b>Well:</b> DAVID REINBEAU MSH 3 <b>Field:</b> NORTH VICTORY FIELD WET <b>County:</b> MARSHALL <b>SHL:</b> 39.9929 Latitude -80.6614 Longitude <b>BHL:</b> 40.0142 Latitude -80.6705 Longitude <b>KB Elev:</b> 1,277 ft MSL	<b>Re-entry Rig:</b> TBD <b>Prospect:</b> Marcellus Shale <b>State:</b> WV <b>KB:</b> 26 ft AGL <b>GL Elev:</b> 1,251 ft MSL
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No COAL VOID Anticipated

PROD TOC Lead @ 2,300' MD  
 PROD TOC Tail @ 5,508' MD

**TUBULAR DETAIL**

Casing String	Casing Size (in)	Weight (Min)	Grade (Min)	Planned Interval	
				From	To
Conductor	20	94.0 #	J-55	0'	126'
Surface	13.375	48.0 #	H-40	0'	506'
Intm/Coal	9.625	36.0 #	J-55	0'	2,080'
Production	5.5	20.0 #	P-110 HP	0'	14,223'

**CEMENT DETAIL**

	Sacks	Class	Density
<b>Conductor:</b>	151	A	19.3
<b>Surface:</b>	541	A	15.6
<b>Intermediate:</b>	982	A	15.6-16
<b>Production:</b>	4358	A	14.5-15.0

126' to 526' Air/Mist  
 526' to 2,100' Air/Mist  
 ↓  
 10.5# Brine Mud  
 2,100' to 5,608' Air/Mist  
 ↓  
 Air  
 TD at 5,608'

KOP at 5,608' MD

Freshwater Depth - 426' TVD  
 Coal Depth - 785' TVD  
 Saltwater Depth - 883' TVD  
 TVD - 6,356'  
 TMD - 14,223'

5,608' to 6,748' 12.0-12.5 ppg

6,356' Target Center

TD at 14,223' MD  
 6,285' TVD

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EOB at 6,748' MD

SHL Onondaga 6,368' TVD

Onondaga 6,297' TVD

MAR 09 2022  
 6,748' to 14,223' 12.5-13.4 ppg

Created by: C R Hall on 02/16/2022

WV Department of Environmental Protection

*MGK 2/23/2022*

04/08/2022

February 28, 2022

Mr. Charles Brewer  
Office of Oil & Gas  
601 57<sup>th</sup> Street  
Charleston, WV 25304

**RE:** Proposed New Well: David Reinbeau MSH 3H

Dear Mr. Brewer:

SWN has reviewed the area of the above mentioned well and discovered no shallow wells within 500' of the lateral. This well is situated on the David Reinbeau MSH property, in Union District, Marshall County, West Virginia.

If you have any questions or desire additional information, please me at 304-884-1613.

Thank you.

Sincerely,



Brittany Woody  
Senior Regulatory Analyst  
Southwestern Energy Production Company, LLC

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WW-9  
(4/16)

API Number 47 - 051 **4705102439**  
Operator's Well No. David Reinbeau MSH 3H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name SWN Production Co., LLC OP Code 494512924

Watershed (HUC 10) Holidays Run of Wheeling Creek Quadrangle Moundville

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

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: \_\_\_\_\_

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

Proposed Disposal Method For Treated Pit Wastes:

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

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

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

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

Additives to be used in drilling medium? Attachment 3B

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

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

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

Apex Sanitary Landfill 06-08438, Brooke Co SWF-1013,

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature *Brittany Woody*

Company Official (Typed Name) Brittany Woody

Company Official Title Senior Regulatory Analyst

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WV Department of  
Environmental Protection

Subscribed and sworn before me this 17<sup>th</sup> day of February, 2022

*Neil Coff*

Notary Public

My commission expires 8/21/2024



SWN Production Co., LLC

Proposed Revegetation Treatment: Acres Disturbed 18.42 Prevegetation pH \_\_\_\_\_

Lime as determined by pH test min. 2 Tons/acre or to correct to pH 10.4

Fertilizer type 10-20-20

Fertilizer amount 600/500 lbs/acre

Mulch Hay/Straw Tons/acre

Seed Mixtures

**Temporary**

**Permanent**

Seed Type lbs/acre

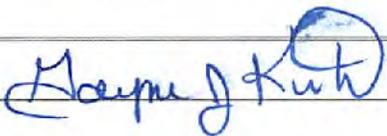
Seed Type lbs/acre

Attachment 3C

**Attach:**

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: 

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

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Title: Oil & Gas Inspector

Date: 2/23/2022

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Field Reviewed?  Yes  No

## Attachment 3A

**CLOSED LOOP SYSTEM**

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

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

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

**AIR DRILLING INTERVALS**

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

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

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

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**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

*R<sup>+</sup>  
A → V<sup>+</sup>*

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

NON-ORGANIC PROPERTIES	
Seed Mixture: ROW Mix	SWN Supplied
Orchardgrass	40%
Timothy	15%
Annual Ryegrass	15%
Brown Top Millet	5%
Red Top	5%
Medium Red Clover	5%
White Clover	5%
Birdsfoot Trefoil	5%
Rough Bluegrass	5%
All legumes are innoculated at 5x normal rate	
Apply @ 100lbs per acre April 16th- Oct. 14th	
Apply @ 200lbs per acre Oct. 15th- April 15th PLUS 50lbs per acre of Winter Wheat	
SOIL AMENDMENTS	
10-20-20 Fertilizer	*Apply @ 500lbs per Acre
Pelletized Lime	Apply @ 2 Tons per Acre
*unless otherwise dictated by soil test results	
Seeding Calculation Information:	
1452' of 30' ROW/LOD is One Acre	
871' of 50' ROW/LOD is One Acre	
622' of 70' ROW/LOD is One Acre	
Synopsis:	
Every 622 linear feet in a 70' ROW/LOD, you should be using (2) 50lb bags of seed, (4) 50lb bags of fertilizer and (80) 50lb bags of Lime (2x seed in winter months + 50lb Winter Wheat/ac).	
Special Considerations:	
Landowner Special Considerations including CREP program participants require additional guidance that is not given here. Discuss these requirements with SWN supervision at the beginning of the project to allow time for special seed delivery.	

ORGANIC PROPERTIES	
Seed Mixture: SWN Production Organic Mix	SWN Supplied
Organic Timothy	50%
Organic Red or White Clover	50%
OR	
Organic Perennial Ryegrass	50%
Organic Red or White Clover	50%
Apply @ 100lbs per acre April 16th- Oct. 14th	
Apply @ 200lbs per acre Oct. 15th- April 15th	
Organic Fertilizer @ 200lbs per Acre	Pelletized Lime @ 2 Tons per Acre
WETLANDS (delineated as jurisdictional wetlands)	
Seed Mixture: Wetland Mix	SWN Supplied
VA Wild Ryegrass	20%
Annual Ryegrass	20%
Fowl Bluegrass	20%
Cosmos 'Sensation'	10%
Redtop	5%
Golden Tickseed	5%
Maryland Senna	5%
Showy Tickseed	5%
Fox Sedge	2.5%
Soft Rush	2.5%
Woolgrass	2.5%
Swamp Verbena	2.5%
Apply @ 25lbs per acre April 16th- Oct. 14th	
Apply @ 50lbs per acre Oct. 15th- April 15th	
NO FERTILIZER OR LIME INSIDE WETLAND LIMITS	

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Environmental Protection

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# MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN



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

**API NO. 47-XXX-XXXXX**  
**WELL NAME: David Reinbeau MSH 3H**  
**Moundsville QUAD**  
**Union DISTRICT**  
**MARSHALL COUNTY, WEST VIRGINIA**

Submitted by:

Name: Brittany Woody

Date: 2/14/2022

*Brittany Woody*

Title: Senior Regulatory Analyst

SWN Production Co., LLC

Approved by:

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

*Layne J. Kuhn*

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

2/23/2022

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

Inspector

Approved by:

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

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

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

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Office of Oil and Gas

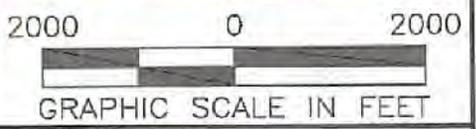
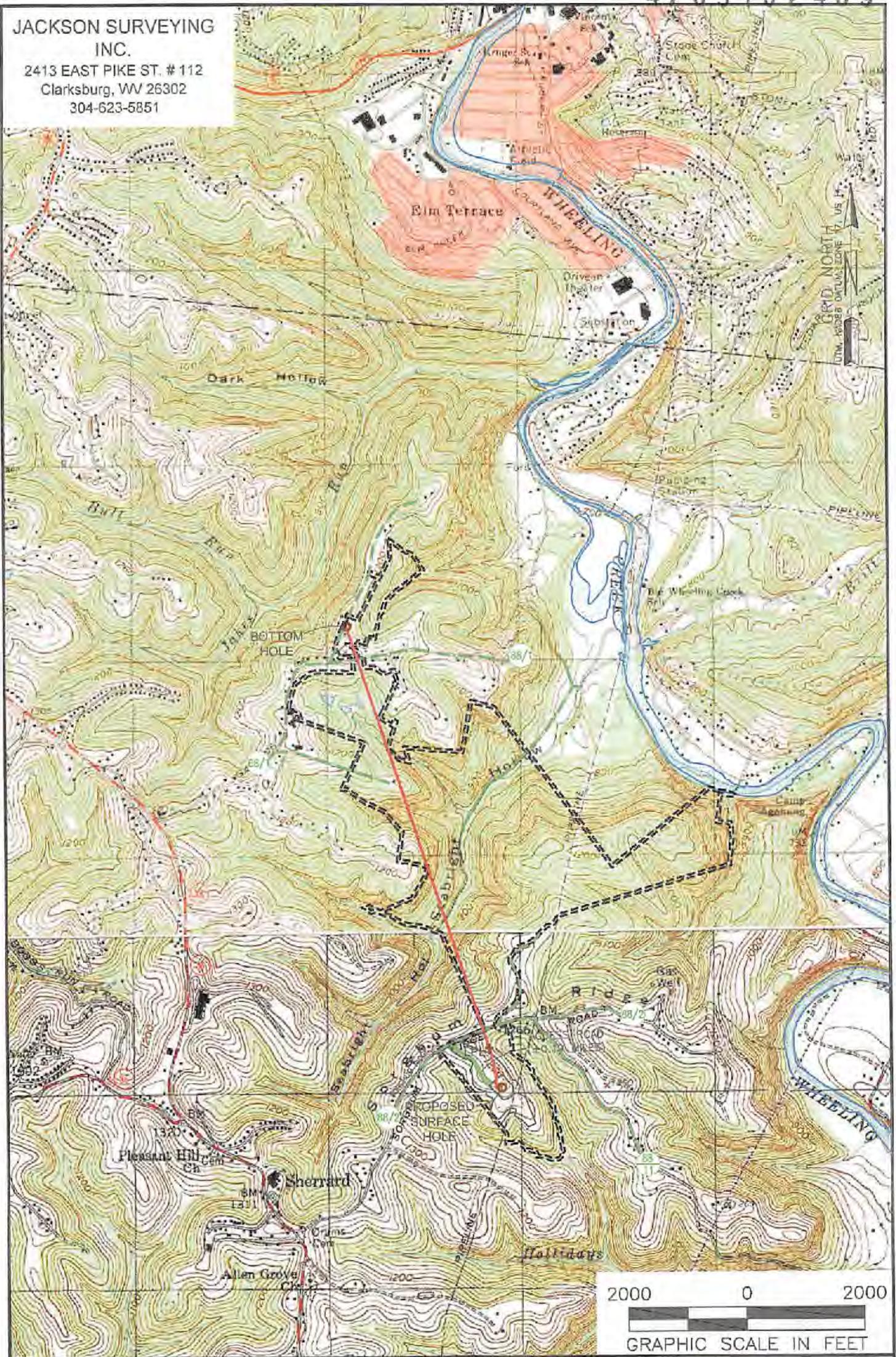
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WV Department of  
Environmental Protection

SWN PRODUCTION COMPANY, LLC – CONFIDENTIAL

04/08/2022

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



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

**LEGEND:**  
 ○ PROPOSED SURFACE HOLE / BOTTOM HOLE  
 \* EXISTING / PRODUCING WELLHEAD  
 LPL\* LANDING POINT LOCATION  
 FLOOD PLAN  
 — ACCESS ROAD  
 - - - PUBLISHED  
 - - - ACCESS ROAD TO PREV. SITE  
 = = = LEASE BOUNDARY  
 — PROPOSED PATH

<b>WELL OPERATOR:</b> SWN PRODUCTION COMPANY, LLC	<b>WELL (FARM) NAME:</b> DAVID REINBEAU MSH	<b>WELL #</b> 3H	<b>SERIAL #</b>
<b>ADDRESS:</b> 1300 FORT PIERPONT ROAD, SUITE 200 MORGANTOWN, WV 26508	<b>COUNTY - CODE</b> MARSHALL - 051	<b>DISTRICT; UNION</b>	
<b>SURFACE OWNER:</b> SHELLY A. & DAVID W. REINBEAU	<b>USGS 7 1/2 QUADRANGLE MAP NAME</b> MOUNDSVILLE, WV		

Latitude: 40°00'00"

SURFACE HOLE 10,203'

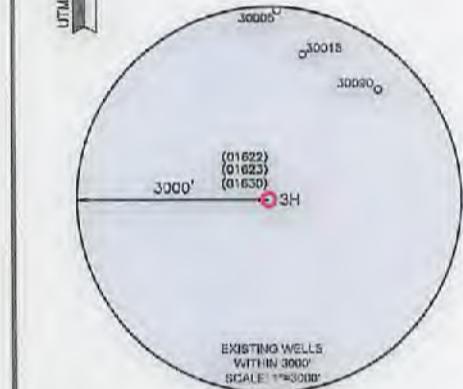
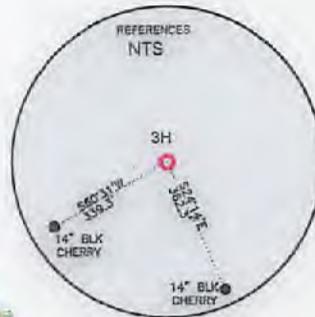
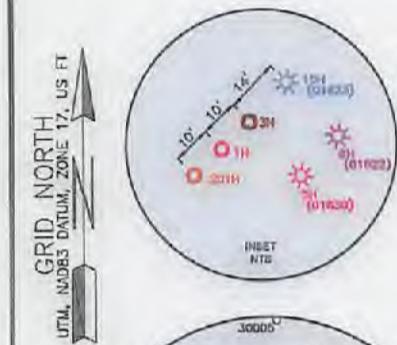
Latitude: 40°02'30" BOTTOM HOLE 1,080'

# JACKSON SURVEYING INC.

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

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 19°51'29" W	1040.87'	SHL TO LANDMARK	FENCE CORNER
L2	N 60°09'51" W	1281.64'	SHL TO LANDMARK	FENCE CORNER
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	N 17°44'51" W	893.62'	811.21'	SHL TO LP

<b>SURFACE HOLE LOCATION (SHL):</b>
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,427,018.731
EASTING: 528,904.246
<b>LANDING POINT LOCATION (LPL):</b>
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,427,220.085
EASTING: 528,839.802
<b>BOTTOM HOLE LOCATION (BHL):</b>
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,429,379.985
EASTING: 528,118.049



Longitude: 80°37'30" SURFACE HOLE 2604'  
Longitude: 80°40'00" BOTTOM HOLE 10,023'

### WELL RESTRICTIONS

1. NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
2. NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
3. NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
4. NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
5. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
6. NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

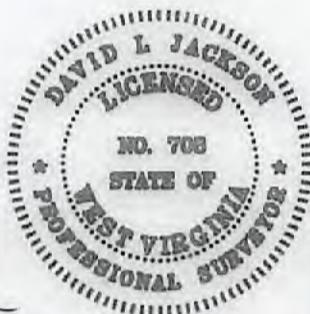
### NOTES ON SURVEY

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

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

P.S. 708

*David L Jackson*



2000 0 2000

GRAPHIC SCALE IN FEET

COMPANY: **SWN** **SWN** *R-V+O*  
Production Company, LLC Production Company™

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
WVDEP  
OFFICE OF OIL & GAS  
601 57TH STREET  
CHARLESTON, WV 25034

MINIMUM DEGREE OF ACCURACY: 1/200  
PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)

DAVID REINBEAU MSH  
OPERATOR'S WELL #: 3H  
API WELL #: 47 051 02439  
STATE COUNTY PERMIT

WELL TYPE: OIL  WASTE DISPOSAL  PRODUCTION  DEEP  GAS  LIQUID INJECTION  STORAGE  SHALLOW   
 WATERSHED: HOLIDAYS RUN OF WHEELING CREEK (HUC-10) ELEVATION: 1251.2'  
 DISTRICT: UNION COUNTY: MARSHALL QUADRANGLE: MOUNDSVILLE, WV  
 SURFACE OWNER: SHELLY A. & DAVID W. REINBEAU ACREAGE: ±50.88  
 OIL & GAS ROYALTY OWNER: SHELLY A. & DAVID W. REINBEAU ACREAGE: ±50.88  
 DRILL  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION   
 CONVERT  PLUG & ABANDON  CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY)  
 TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,356 TVD 14,223 TMD

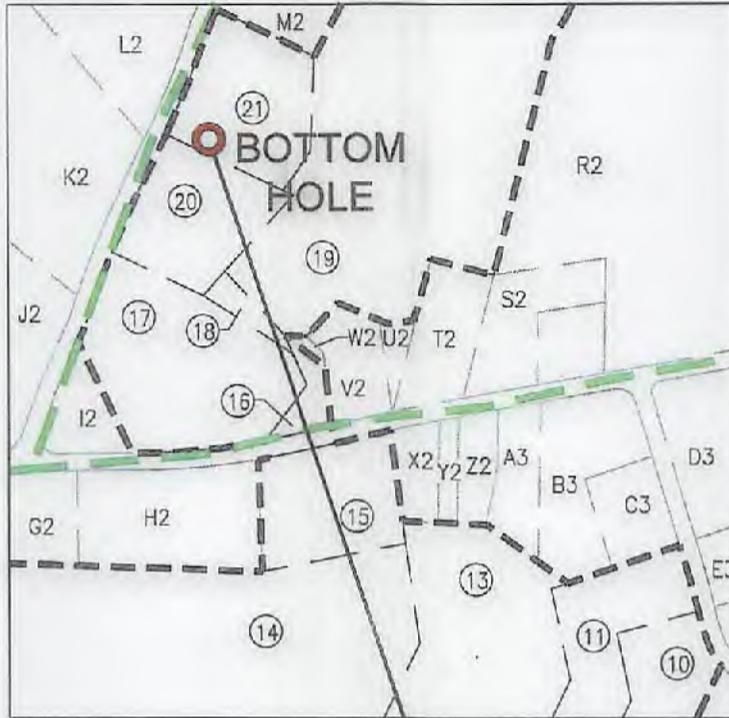
04/08/2022

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITTANY WOODY  
 ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200  
 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

<b>LEGEND:</b>	<ul style="list-style-type: none"> <li>○ PROPOSED SURFACE HOLE / BOTTOM HOLE</li> <li>⊙ EXISTING / PRODUCING WELLHEAD</li> <li>LPL: ⬠ LANDING POINT LOCATION</li> <li>⊕ EXISTING WATER WELL</li> <li>⊙ EXISTING SPRING</li> <li>— SURVEYED BOUNDARY</li> <li>— DRILLING UNIT</li> <li>— LEASE BOUNDARY</li> <li>— PROPOSED PATH</li> </ul>	<b>REVISIONS:</b> DATE: 02-17-2022 DRAWN BY: N. MANO SCALE: 1" = 2000' DRAWING NO: WELL LOCATION PLAT
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JACKSON SURVEYING  
 INC.  
 2413 EAST PIKE ST. # 112  
 Clarksburg, WV 26302  
 304-623-5851

DETAIL "A"



WELL BORE TRACTS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	REINBEAU SHELLY A & DAVID W (S/R)	13-8-29
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	NARRISH KEVIN (S)	13-8-30
3	BONACCI BRIAN F (S)	13-3-5.1
4	COULLING LOUISE S ET AL (S)	13-3-3
5	OHIO COUNTY COAL RESOURCES INC (S)	13-3-3.1
6	GEHO STANLEY R & BETH B (S)	13-4-22.16
7	GEHO STANLEY R & BETH B (S)	13-4-22.7
8	MCGUIRE PHILIP C (S)	13-4-21.4
9	YOUNGER DONALD A & MOORE TERESA R (S)	13-2-94
10	DAY JOHN U EST & MERCER CHRISTINE (S)	13-2-95
11	CHAPPELEAR THOMAS C & PAULA A (S)	13-2-95.1
12	GARVIN CORRINE A EST (S)	13-2-97
13	GARVIN LEILA N & DONALD A (S)	13-2-96
14	GARVIN CORRINE A EST (S)	13-2-98
15	MERCER RICK (S)	13-2-81.1
16	RANSOM DONNA K & DAVID W -TRUSTS (S)	13-2-30.9
17	RANSOM DONNA K & DAVID W -TRUSTS (S)	13-2-30.2
18	RANSOM DONNA K & DAVID W -TRUSTS (S)	13-2-30.5
19	DOUGHERTY LOIS J (S)	13-2-30.8
20	DOUGHERTY KAREN E (S)	13-2-30.3
21	SCHLIEPER DAVID J & LYNDSY B (S)	13-2-30.4

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

P.S. 708

*David L Jackson*



04/08/2022

REVISIONS:	COMPANY:		
	OPERATOR'S	DAVID REINBEAU MSH	DATE: 02-17-2022
	WELL #:	47-051-02434 3H	DRAWN BY: N. MANO
	DISTRICT:	UNION	SCALE: N/A
	COUNTY:	MARSHALL	DRAWING NO:
	STATE:	WV	WELL LOCATION PLAT 2

**JACKSON SURVEYING  
INC.**

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

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	MCCOMBS JOHN A SR, THOMAS E & BETH	13-8-11
B	MCCOMBS JOHN A SR, THOMAS E & BETH	13-8-26
C	REINBEAU SHELLY A & DAVID W	13-8-27
D	BOWMAN MICHAEL ET UX	13-8-28
E	BOWMAN MICHAEL J & CONSTANCE G	13-7-21
F	ALEXANDER LORRAINE	13-7-20
G	ALEXANDER LORRAINE	13-7-18.1
H	ALEXANDER LORRAINE	13-7-18
I	SAMPSON EDITH VIRGINIA EST	13-7-19
J	WARD CYNTHIA J & DALE P	13-4-23.5
K	WEST VALLIE JAMES ET AL	13-4-22
L	BRINKMEIER BRUCE & TAMARA	13-4-22.14
M	BRINKMEIER BRUCE & TAMARA	13-4-22.15
N	WALTON EARL RICHARD JR & BRANDICE C	13-4-22.21
O	WALTON EARL RICHARD JR & BRANDICE C	13-4-22.23
P	GAMES FRED & MARY V	13-4-22.19
Q	GAMES FRED & MARY V	13-4-22.18
R	GAMES MARY VIRGINIA - TOD	13-4-22.22
S	WALTON EARL RICHARD JR & BRANDICE C	13-4-22.20
T	WEST VALLIE JAMES ET AL	13-4-22
U	HILL CAROL LYNN & FORDYCE BRIAN W	13-4-22.8
V	MANNING JOHN B & KIMBERLY R	13-4-22.13
W	GAMES FRED & MARY V	13-4-22.17
X	GAMES MARY VIRGINIA - TOD	13-4-22.25
Y	MCGUIRE PHILIP C	13-4-21.9
Z	GARVIN CORRINE A EST	13-2-101
A2	GARVIN CORRINE A EST	13-2-100
B2	GARVIN CORRINE A EST	13-2-99
C2	GARVIN CORRINE A EST	13-2-70
D2	GARVIN CORRINE A EST	13-2-71
E2	MUSTACHIO EMILY A & GARVIN GRANT W	13-2-72
F2	GARVIN JOHN A & KAREN L	13-2-73
G2	GARVIN DOROTHY MAE EST	13-2-81
H2	GARVIN JOHN	13-2-81.2
I2	RANSOM DAVID W & DONNA K	13-2-80
J2	MILLER GEORGE W ET AL	13-2-79
K2	BURKE RICHARD & FITZPATRICK DEBRA	13-2-31.2
L2	BURKE RICHARD & FITZPATRICK DEBRA	12-1-31.1
M2	INGRAM ROBERT HOWARD III ET UX	13-2-30.6
N2	DOUGHERTY MICHAEL C	13-2-30.7
O2	DOUGHERTY MICHAEL C	13-2-30.10
P2	LONG RICHARD E ET UX	13-2-32
Q2	LONG RICHARD E ET UX	13-2-34

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
R2	WILLIS CHARLES ROBERT ET AL	13-2-29
S2	INGRAM ROBERT H III & LISA ANN	13-2-29.4
T2	DOUGHERTY LOIS J	13-2-30.1
U2	DOUGHERTY LOIS J	13-2-30.14
V2	HANKET COURTNEY T	13-2-30.11
W2	RANSOM DONNA K & DAVID W	13-2-30.12
X2	MERCER RICK	13-2-82.1
Y2	MERCER RICK	13-2-82.2
Z2	BILINSKY HARRY EST & PALMER JOSEPH J	13-2-82
A3	MERCER RICK W	13-2-83
B3	STOEHR JOHN ROBERT ET UX	13-2-83.1
C3	REDD JOHN N ET UX	13-2-84
D3	GARVIN JOHN ARTHUR	13-2-85
E3	DENNING MICHAEL J ET UX	13-2-86
F3	HENRY VICTORIA A	13-2-86.1
G3	HENRY VICTORIA A	13-2-86.2
H3	FLANAGAN JAMES A & BETY S	13-2-94.2
I3	YOUNGER DONALD A & MOORE TERESA R	13-2-94.4
J3	YOUNGER DONALD A & MOORE TERESA R	13-2-94.6
K3	YOUNGER DONALD A & MOORE TERESA R	13-2-94.3
L3	BANE RYAN	13-2-93
M3	WIEDEBUSCH ROBERT & CINDY	13-2-93.1
N3	WIEDEBUSCH ROBERT & CINDY	13-2-91
O3	GAUGHAN MICHAEL WM	13-2-90.1
P3	GAUGHAN MICHAEL WILLIAM ET UX	13-2-90
Q3	ABEL JAMES R & SHERI L	13-2-89
R3	ISER RONALD J ET UX	13-2-88
S3	WHITE HORSE FARM LLC	13-3-2
T3	COULLING LOUISE S ET AL	13-3-5.3
U3	COULLING LOUISE S	13-3-5
V3	DAWSON THOMAS A ET AL	12-18-21.1
W3	MCADAMS ROBERT E & JODY L	12-18-27.1
X3	MATTUCCI MARK A	12-18-28
Y3	MAAS BRIAN J & AMY C - TRUST	13-3-8
Z3	MAAS BRIAN J & AMY C - TRUST	13-3-10
A4	HART JOHN J & RENEE A	13-3-11
B4	BONACCI FRANK A	13-3-5.5
C4	SOUTH CHRISTOPHER C	13-8-31
D4	KOSTELECKY JOSEPH J JR & CAROLYN - TOD	13-8-31.1
E4	FUNK CHARLES D ET UX	13-8-32
F4	LOY EUGENE EST ET AL	13-8-01
G4	LIBERTY JOHN ET UX	13-8-10

04/08/2022

REVISIONS:	COMPANY:		 	
	OPERATOR'S		DAVID REINBEAU MSH	
	WELL #:		47-051-02439 3H	
	DISTRICT:	COUNTY:	STATE:	DATE: 02-17-2022
	UNION	MARSHALL	WV	DRAWN BY: N. MANO
				SCALE: N/A
				DRAWING NO:
				WELL LOCATION PLAT 3

4705102400

WW-6A1  
(5/13)

Operator's Well No. DAVID REINBEAU MSH 3H

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

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
See 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: Bailey Brougher  
 Its: Senior Landman  
Office of Oil and Gas

MAR 03 2022

Page 1 of \_\_\_\_\_

4705102439

## 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  
David Reinbeau MSH 3H  
Marshall County, West Virginia

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG
1)	13-0008-0029-0000	Shelly A. Reinbeau and David W. Reinbeau, her husband, joint tenants, with right of survivorship	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	17.00%	688/424 33/110
2)	13-0008-0030-0000	Thomas P. Zahnow and Holly J. Zahnow, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.75%	697/101 33/110
3)	13-0003-0005-0001	Orville Young L.L.C.	SWN Production Company, LLC	18.00%	868/394
		Brian F. Bonacci, a single man	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.75%	764/390 33/110
		Frank A. Bonacci, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.75%	764/396 33/110
4)	13-0003-0003-0000	Orville Young L.L.C.	SWN Production Company, LLC	18.00%	868/394
		Louise S. Coulling, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.75%	767/445 33/110
		Heidi Bruhn, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.75%	767/455 33/110
		Mary Schenk Hamilton and Gary P. Hamilton, wife and husband	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.75%	767/466 33/110
		Karen Schenk Sligar and Terry B. Sligar, wife and husband	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.75%	768/203 33/110
		White Horse Farm, LLC	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.75%	771/373 33/110
		Frank A. Bonacci, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.75%	782/385 33/110
		Brian F. Bonacci, a single man	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.75%	782/393 33/110
5)	13-0003-0003-0001	SWN Production Company, LLC (Company Owned Minerals)		12.50%	1128/370 (Mineral Deed)
6)	13-0004-0022-0016	James Riley West and Phyllis Jean West, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	676/329 33/110
		Fred Games and Mary Virginia Games, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	676/334 33/110

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7)	13-0004-0022-0007	James Riley West, widower	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	721/375 33/110
8)	13-0004-0021-0004	Philip C. McGuire and Janice R. McGuire, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	834/193 33/110
9)	13-0002-0094-0000	John Arthur Garvin and Karen L. Garvin, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	681/598 33/110
		Calvin Carter Garvin, a married man doing business in his sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	682/118 33/110
		Hadden Paul Garvin, Jr., single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	681/119 33/110
		Leila Catherine Garvin Linder, aka Catherine Linder, and Dr. Steven Linder, wife and husband	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	799/269 33/110
		Heather Blackmar, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	799/635 33/110
		Gary W. Garvin, single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	691/646 33/110
		Philip Spencer Bowen, Jr., widower	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	799/641 33/110
		Donald Alexander Garvin, widower	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.75%	710/34 33/110
10)	13-0002-0095-0000	John Arthur Garvin and Karen L. Garvin, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	681/598 33/110
		Calvin Carter Garvin, a married man doing business in his sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	682/118 33/110
		Hadden Paul Garvin, Jr., single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	681/119 33/110
		Leila Catherine Garvin Linder, aka Catherine Linder, and Dr. Steven Linder, wife and husband	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	799/269 33/110
		Heather Blackmar, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	799/635 33/110
		Gary W. Garvin, single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	691/646 33/110
		Philip Spencer Bowen, Jr., widower	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	799/641 33/110

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	Donald Alexander Garvin, widower	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.75%	710/34 33/110
11) 13-0002-0095-0001	John Arthur Garvin and Karen L. Garvin, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	681/598 33/110
	Calvin Carter Garvin, a married man doing business in his sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	682/118 33/110
	Hadden Paul Garvin, Jr., single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	681/119 33/110
	Leila Catherine Garvin Linder, aka Catherine Linder, and Dr. Steven Linder, wife and husband	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	799/269 33/110
	Heather Blackmar, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	799/635 33/110
	Gary W. Garvin, single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	691/646 33/110
	Philip Spencer Bowen, Jr., widower	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	799/641 33/110
	Donald Alexander Garvin, widower	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.75%	710/34 33/110
12) 13-0002-0097-0000	John Arthur Garvin and Karen L. Garvin, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	681/598 33/110
	Calvin Carter Garvin, a married man doing business in his sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	682/118 33/110
	Hadden Paul Garvin, Jr., single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	681/119 33/110
	Leila Catherine Garvin Linder, aka Catherine Linder, and Dr. Steven Linder, wife and husband	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	799/269 33/110
	Heather Blackmar, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	799/635 33/110
	Gary W. Garvin, single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	691/646 33/110
	Philip Spencer Bowen, Jr., widower	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	799/641 33/110

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	Donald Alexander Garvin, widower	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.75%	710/34 33/110	
13)	13-0002-0096-0000	John Arthur Garvin and Karen L. Garvin, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	681/598 33/110
		Calvin Carter Garvin, a married man doing business in his sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	682/118 33/110
		Hadden Paul Garvin, Jr., single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	681/119 33/110
		Leila Catherine Garvin Linder, aka Catherine Linder, and Dr. Steven Linder, wife and husband	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	799/269 33/110
		Heather Blackmar, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	799/635 33/110
		Gary W. Garvin, single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	691/646 33/110
		Philip Spencer Bowen, Jr., widower	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	799/641 33/110
		Donald Alexander Garvin, widower	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.75%	710/34 33/110
14)	13-0002-0098-0000	John Arthur Garvin and Karen L. Garvin, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	681/598 33/110
		Calvin Carter Garvin, a married man doing business in his sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	682/118 33/110
		Hadden Paul Garvin, Jr., single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	681/119 33/110
		Leila Catherine Garvin Linder, aka Catherine Linder, and Dr. Steven Linder, wife and husband	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	799/269 33/110
		Heather Blackmar, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	799/635 33/110
		Gary W. Garvin, single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	691/646 33/110
		Philip Spencer Bowen, Jr., widower	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	799/641 33/110

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	Donald Alexander Garvin, widower	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.75%	710/34 33/110	
15)	13-0002-0081-0001	John Arthur Garvin and Karen L. Garvin, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	681/598 33/110
		Calvin Carter Garvin, a married man doing business in his sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	682/118 33/110
		Hadden Paul Garvin, Jr., single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	681/119 33/110
		Leila Catherine Garvin Linder, aka Catherine Linder, and Dr. Steven Linder, wife and husband	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	799/269 33/110
		Heather Blackmar, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	799/635 33/110
		Gary W. Garvin, single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	691/646 33/110
		Philip Spencer Bowen, Jr., widower	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	799/641 33/110
		Donald Alexander Garvin, widower	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.75%	710/34 33/110
16)	13-0002-0030-0009	Donna K. Ransom and David W. Ransom, her husband	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	699/417 33/110
17)	13-0002-0030-0002	Donna Kay Ransom, a/k/a Donna K. Ransom, and David W. Ransom, her husband	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	701/346 33/110
18)	13-0002-0030-0005	Donna Kay Ransom, a/k/a Donna K. Ransom, and David W. Ransom, her husband	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	701/346 33/110
19)	13-0002-0030-0008	Lois J. Dougherty and Frederick A. Dougherty, wife and husband	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	677/211 33/110
20)	13-0002-0030-0003	Wayne T. Dougherty and Karen E. Dougherty, his wife	TriEnergy Holdings, LLC NPAR, LLC Chevron U.S.A. Inc. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	16.00%	694/264 23/80 756/332 30/532 33/110

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21) 13-0002-0030-0004	Robert H. Ingram, III and Lisa Ann Ingram, f/k/a Lisa Ann Dougherty, his wife	TriEnergy Holdings, LLC NPAR, LLC Chevron U.S.A. Inc. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	16.00%	696/166 23/80 756/332 30/532 33/110
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SWN Production Company, LLC  
1300 Fort Pierpont Dr, Ste 201  
Morgantown, WV 26508  
Tel: 304 884 1610  
Fax: 304 471 2497  
www.swn.com

February 16, 2022

Mr. Charles Brewer  
WV DEP Office of Oil & Gas  
601 57<sup>th</sup> St., SE  
Charleston, WV 25304

**RE:** SWN's proposed New Well: David Reinbeau MSH 3H in Marshall County, West Virginia, Drilling under Sorghum Ridge Road, Garvins Road, and Ravenscraft Road.

Dear Mr. Brewer:

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 Sorghum Ridge Road, Garvins Road, and Ravenscraft Road. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you.

Sincerely,

A handwritten signature in blue ink that reads "Bailey Brougher".

Bailey Brougher  
Senior Landman  
SWN Production Company, LLC

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A handwritten signature in red ink, possibly reading "R. A. V. +", with a stylized arrow pointing from the 'R' to the 'V'.

The Right People doing the Right Things,  
wisely investing the past for the best  
underlying Assets and their value. 04/08/2022

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

Date of Notice Certification: \_\_\_\_\_

API No. 47- 051 - \_\_\_\_\_  
Operator's Well No. David Reinbeau MSH 3H  
Well Pad Name: David Reinbeau MSH

**Notice has been given:**

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

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>528904.246</u>
County: <u>051-Marshall</u>	UTM NAD 83 Northing: <u>4427018.731</u>
District: <u>Union</u>	Public Road Access: <u>Sorghum Ridge Road</u>
Quadrangle: <u>Moundsville</u>	Generally used farm name: <u>David Reinbeau</u>
Watershed: <u>Holidays Run of Wheeling Creek</u>	

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

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 100px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p><b>OOG OFFICE USE ONLY</b></p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p>
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**Required Attachments:**

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

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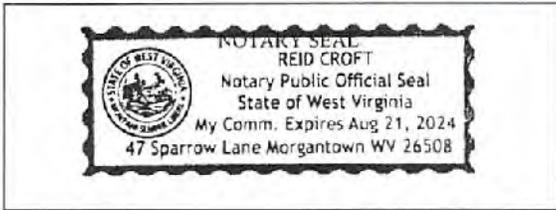
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**Certification of Notice is hereby given:**

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

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

*Brittany Woody*



Subscribed and sworn before me this 17<sup>th</sup> day of Feb, 2022.

*Reid Croft* Notary Public

My Commission Expires 8/21/2024

**Oil and Gas Privacy Notice:**

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

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

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

Date of Notice: \_\_\_\_\_ Date Permit Application Filed: \_\_\_\_\_

Notice of:

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

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

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

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

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

SURFACE OWNER(s)

Name: David & Shally Reinbeau

Address: 651 Sorghum Ridge Road  
Wheeling, WV 26003

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

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

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

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

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

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

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

SURFACE OWNER(s) (Impoundments or Pits)

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

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

COAL OWNER OR LESSEE

Name: American Consolidated Natural Resources

Address: 46226 National Road  
St. Clairsville, OH 43950

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

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

SURFACE OWNER OF WATER WELL

AND/OR WATER PURVEYOR(s)

Name: NONE

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

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: \_\_\_\_\_ Office of Oil and Gas

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

MAR 03 2022

\*Please attach additional forms if necessary

WV Department of  
Environmental Protection

**Notice is hereby given:**

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

**This Notice Shall Include:**

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

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

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

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

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

**Well Location Restrictions**

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within MA Res 2002 as 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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(8-13)

API NO. 47-051 -  
OPERATOR WELL NO. David Reinbeau MSH 3H  
Well Pad Name: David Reinbeau MSH

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

#### **Water Well Testing:**

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

#### **Water Testing Laboratories:**

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

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

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

#### **Written Comment:**

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

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

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WV Department of  
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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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**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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(8-13)

4705102439  
API NO. 47-051 -  
OPERATOR WELL NO. David Reinbeau MSH 3H  
Well Pad Name: David Reinbeau MSH

**Notice is hereby given by:**

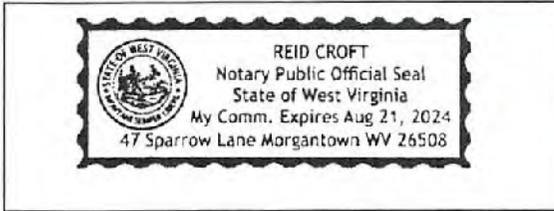
Well Operator: SWN Production Co., LLC  
Telephone: 304-884-1610  
Email: Brittany\_Woody@swn.com

*Brittany Woody*

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

**Oil and Gas Privacy Notice:**

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



Subscribed and sworn before me this 17<sup>th</sup> day of Feb, 2022.  
Reid Croft Notary Public  
My Commission Expires 8/21/2024

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MAR 03 2022  
WV Department of  
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04/08/2022

WW-6A3  
(1/12)

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

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

**Date of Notice:** 1/28/2022      **Date of Planned Entry:** 2/2/2022

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

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

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

**Notice is hereby provided to:**

SURFACE OWNER(s)

Name: David & Shelley Reinbeau  
Address: 651 SORGHUM RIDGE ROAD  
Wheeling, WV 26003

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

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

COAL OWNER OR LESSEE

Name: American Consolidated Natural Resources  
Address: 46226 National Road  
St. Clairsville, OH 43950

MINERAL OWNER(s)

Name: David & Shelley Reinbeau  
Address: 651 SORGHUM RIDGE ROAD  
Wheeling, WV 26003

<sup>4</sup>please attach additional forms if necessary

**Notice is hereby given:**

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

State: West Virginia  
County: Marshall  
District: Union  
Quadrangle: Moundsville

Approx. Latitude & Longitude: 39.994960, -80.664920  
Public Road Access: Sorghum Ridge Road  
Watershed: Upper Ohio South  
Generally used farm name: David Reinbeau

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

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**Notice is hereby given by:**

Well Operator: SWN PRODUCTION COMPANY, LLC  
Telephone: 304-864-1610  
Email: Brittany\_Woody@swn.com

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

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WV Department of  
Environmental Protection

**Oil and Gas Privacy Notice:**

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

04/08/2022

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 Requirement:** Notice shall be provided at least TEN (10) days prior to filing a permit application.

**Date of Notice:** 02/16/2022      **Date Permit Application Filed:** \_\_\_\_\_

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

- HAND DELIVERY       CERTIFIED MAIL RETURN RECEIPT REQUESTED

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

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

Name: David and Shelly Reinbeau  
Address: 651 Sorghum Ridge Road  
Wheeling, WV 26003

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

**Notice is hereby given:**

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>4,427,018.731</u>
County:	<u>Marshall</u>		Northing:	<u>528,904.246</u>
District:	<u>Union</u>	Public Road Access:	<u>Sorghum Ridge Road</u>	
Quadrangle:	<u>Moundsville, WV</u>	Generally used farm name:	<u>David Reinbeau MSH</u>	
Watershed:	<u>Holidays Run of Wheeling Creek (HUC-10)</u>			

**This Notice Shall Include:**

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

**Notice is hereby given by:**

Well Operator: SWN Production Company, LLC  
Address: P.O. Box 1300  
Jane Lew, WV 26378  
Telephone: 304-884-1675  
Email: Justin\_Booth@swn.com  
Facsimile: \_\_\_\_\_

Authorized Representative: Justin Booth  
Address: 1300 Fort Pierpont Drive, Suite 201  
Morgentown, WV 26508  
Telephone: 304-884-1675  
Email: Justin\_Booth@swn.com  
Facsimile: \_\_\_\_\_

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Environmental Protection

**Oil and Gas Privacy Notice:**

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

04/08/2022

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

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

Date of Notice: 02/15/2022 Date Permit Application Filed: \_\_\_\_\_

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

- CERTIFIED MAIL  
RETURN RECEIPT REQUESTED
- HAND  
DELIVERY

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

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

Name: <u>David and Shelly Reinbeau</u>	Name: _____
Address: <u>851 Sorghum Ridge Road</u> <u>Wheeling, WV 26003</u>	Address: _____

Notice is hereby given:

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

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>4,427,018.731</u>
County: <u>Marshall</u>	Northing: <u>528,904.246</u>
District: <u>Union</u>	Public Road Access: <u>Sorghum Ridge Road</u>
Quadrangle: <u>Moundsville, WV</u>	Generally used farm name: <u>David Reinbeau MSH</u>
Watershed: <u>Holidays Run of Wheeling Creek (HUC-10)</u>	

This Notice Shall Include:

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

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Well Operator: <u>SWN Production Company, LLC</u>	Address: <u>P.O. Box 1300</u>	MAR 09 2022
Telephone: <u>304-834-1675</u>	<u>Jane Lew, WV 26378</u>	
Email: <u>Justin_Booth@swn.com</u>	Facsimile: _____	WV Department of Environmental Protection

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 of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).



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**WEST VIRGINIA DEPARTMENT OF TRANSPORTATION**  
**Division of Highways**

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

D. Alan Reed, P.E.  
State Highway Engineer

Jimmy Wriston, P. E.  
Secretary of Transportation  
Commissioner of Highways

**February 15, 2022**

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

Subject: DOH Permit for the David Reinbeau Pad, Marshall County

David Reinbeau MSH 3H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2013-0029 which has been issued to Southwestern Energy for access to the State Road for a well site located off Marshall County Route 88/2 SLS MP 0.84.

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

Very Truly Yours,

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

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Office of Oil and Gas

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

MAR 03 2022

WV Department of  
Environmental Protection

Attachment VI Frac Additives

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Product Name	Product Use	Chemical Name	CAS Number
AI-303 (U.S. Well Services)	Mixture	Ethylene glycol	107-21-1
		Cinnamaldehyde	104-55-2
		Butyl cellosolve	111-76-2
		Formic acid	64-18-6
		Polyether	Proprietary
AP ONE (U.S. Well Services)	Breaker	Acetophenone, thiourea, formaldehyde polymer	68527-49-1
		Ammonium persulfate	7727-54-0
Bactron K-139 (Champion Technologies)	Biocide	Glutaraldehyde	111-30-8
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
		Ethanol	64-17-5
Bactron K-219 (Champion Technologies)	Biocide	Methanol	67-56-1
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
CarbonRT	Tracer	Ceramic Proppant	66402-68-4
EC6486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate	Proprietary
		Ethylene Glycol	107-21-1
EC6734A (Champion Technologies)	Biocide	Hydrogen Peroxide	7722-84-1
		Acetic Acid	64-19-7
		Peroxyacetic Acid	79-21-0
Econo-C1200 (SWN Well Services)	Corrosion Inhibitor	Methanol	67-56-1
		Oxyalkylated fatty acid	68951-67-7
		Fatty acids	61790-12-3
		Modified thiourea polymer	68527-49-1
		Water	7732-18-5
		Hydrochloric acid	7647-01-0
		Potassium acetate	127-08-2
Formaldehyde	50-00-0		
Ecopol-FEAC (SWN Well Services)	Iron Control	Acetic Acid	64-19-7
		Citric Acid	77-92-9
		Water	7732-18-5
FDP-51176-15 (Halliburton)	Friction Reducer	Polyacrylate	Proprietary
		Hydrotreated light petroleum distillate	64742-47-8
FLOJET DR900 LPP (SWN Well Services)	Friction Reducer	Distillates (petroleum) hydrotreated light	64674-47-8
		Ethylene Glycol	107-21-1
		Alcohols, C12-15, Exoxylated propoxylated	68213-24-1
		Fatty Alcohols ethoxylated	Proprietary
		Water	7732-18-5
FLOJET DRP 1130X (SWN Well Services)	Friction Reducer	Proprietary	Proprietary
FR-76 (Halliburton)	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
		Inorganic Salt	Proprietary
GYPTRON T-390 (Champion Technologies)	Scale Inhibitor	Methanol	67-56-1
		Nonylphenol Ethoxylate	Proprietary
HAI-150E (Halliburton)	Corrosion Inhibitor	No hazardous substance	N/A
HCL (SWN Well Services)	Hydrochloric Acid	Hydrochloric Acid	7647-01-0
		Water	7732-18-5
LP-65 MC (Halliburton)	Scale Inhibitor	Organic phosphonate	Proprietary
		Ammonium Chloride	12125-02-9
OPTI-FLEX (U.S. Well Services)	Viscosifying Agent	Distillates, petroleum, hydrotreated light	64742-47-8
Plexslick 930	Friction Reducer	Copolymer of 2-propanamide	Proprietary
		Hydrotreated Distillate	64742-47-8
		Sodium Chloride	7647-14-5
		Alcohols, C12-16, Exoxylated	68551-12-2
		Oleic Acid Diethanolamide	93-83-4
Plexslick 953	Friction Reducer	Ammonium Chloride	12125-02-9
		Petroleum Distillate	64742-47-8
		Sodium Chloride	7647-14-5
		Ammonium Chloride	12125-02-9
Plexslick 957	Friction Reducer	N,N-bis (2-hydroxyethyl) oleamide	93-83-4
		Petroleum Distillate	64742-47-8
		Ammonium Chloride	12125-02-9
		Oleic Acid Diethanolamide	93-83-4
		Alcohols, C12-16, Exoxylated	68551-12-2
WFRA-2000 (U.S. Well Services)	Anionic Friction Reducer	Water	7732-15-5
		Hydrotreated light distillate (petroleum)	64742-47-8
Plexaid 655 NM	Scale Inhibitor	Propionic acid, polymer with propenamide	Proprietary
		Diethylenetriamine penta (methylene phosphonic acid)	15827-80-8
Plexslick 922	no data available	Copolymer of 2-propanamide	69-18-26-4
		Distillates (petroleum), hydrotreated light	64742-47-8
		Ammonium chloride ((NH4)Cl)	12125-02-9
		Oleic Acid Diethanolamide	93-83-4
Telcide P550A	Biocidal product	Tetrakis (hydroxymethyl) phosphonium sulphate	55566-30-8
		Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups	Proprietary
LD-2950	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
		Ethoxylated alcohol	Proprietary
		Poly (oxy-1,2-ethanediy) alpha,-tridecyl,-omega,-hydroxy-, branched	69011-36-5
Legend LD-7750W	Scale Control	Methanol	67-56-1
		Phosphonic Acid Salt	Proprietary
MC MX 8-4743	Specialty Product	Sodium Nitrate	7631-99-4

As of 1/16/2020

Office of Oil and Gas

MAR 08 2022

WV Department of Environmental Protection

04/08/2022



WELL PAD CENTER COORDINATES:  
 LATITUDE: 39 09'22.82" N LONGITUDE: 80 39'41.47" W (DECIMAL DEGREES)  
 LATITUDE: 39 59'34.10" N LONGITUDE: 80 39'41.47" W (DEGREES:MINUTES:SECONDS)  
 NORTHING: 545842.285 EASTING: 1643973.035 (WV SP-83, FEET)  
 NORTHING: 4427015.381 EASTING: 528895.713 (UTM ZONE 17, METERS)

TAX MAP-13-B-29  
 RIDGS REBECCA SUE LST  
 53.2607314 ACRES

TAX MAP-13-B-27  
 RIDGS REBECCA SUE LST  
 30.5182 ACRES

**APPROVED**  
**WVDEP OOG**  
 4/4/2022

**LEGEND**

- EXISTING CONTOURS
- EXISTING PROPERTY LINE
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF DRIVEWAY
- EXISTING LIMITS OF DISTURBANCE
- EXISTING PROFILE OF PAD
- EXISTING FENCE
- EXISTING TREE LINE
- EXISTING OVERHEAD ELECTRIC
- EXISTING POWER POLE
- EXISTING STREAM
- EXISTING WETLAND
- EXISTING DITCH LINE
- EXISTING FILL VERT
- EXISTING GAS LINE
- EXISTING RIGHT-OF-WAY
- EXISTING TOP OF BERM
- EXISTING BOTTOM OF BERM
- PROPOSED CONTOURS
- PROPOSED DRAINAGE
- PROPOSED BENCH OUTRILL
- PROPOSED EDGE OF PAD
- PROPOSED CUT LIMITS
- PROPOSED FILL LIMITS
- PROPOSED CUT FILL INTERFACE
- PROPOSED LIMITS OF DISTURBANCE
- ENVIRONMENTAL AREA OF INTEREST
- PROPOSED 6-IN COMPOST FILTER SOCK (TYP)
- PROPOSED 16-IN COMPOST FILTER SOCK
- PROPOSED ROCK LINED DITCH
- PROPOSED 16-IN FARM FENCE
- PROPOSED GAS LINE RELOCATION BY WILLIAMS BOREHOLE LOCATIONS

**EARTHWORK SUMMARY**

WELL PAD EXPANSION

CUT:	39,500 CY
FILL:	39,500 CY
UNSATURABLE MATERIAL:	2,000 CY



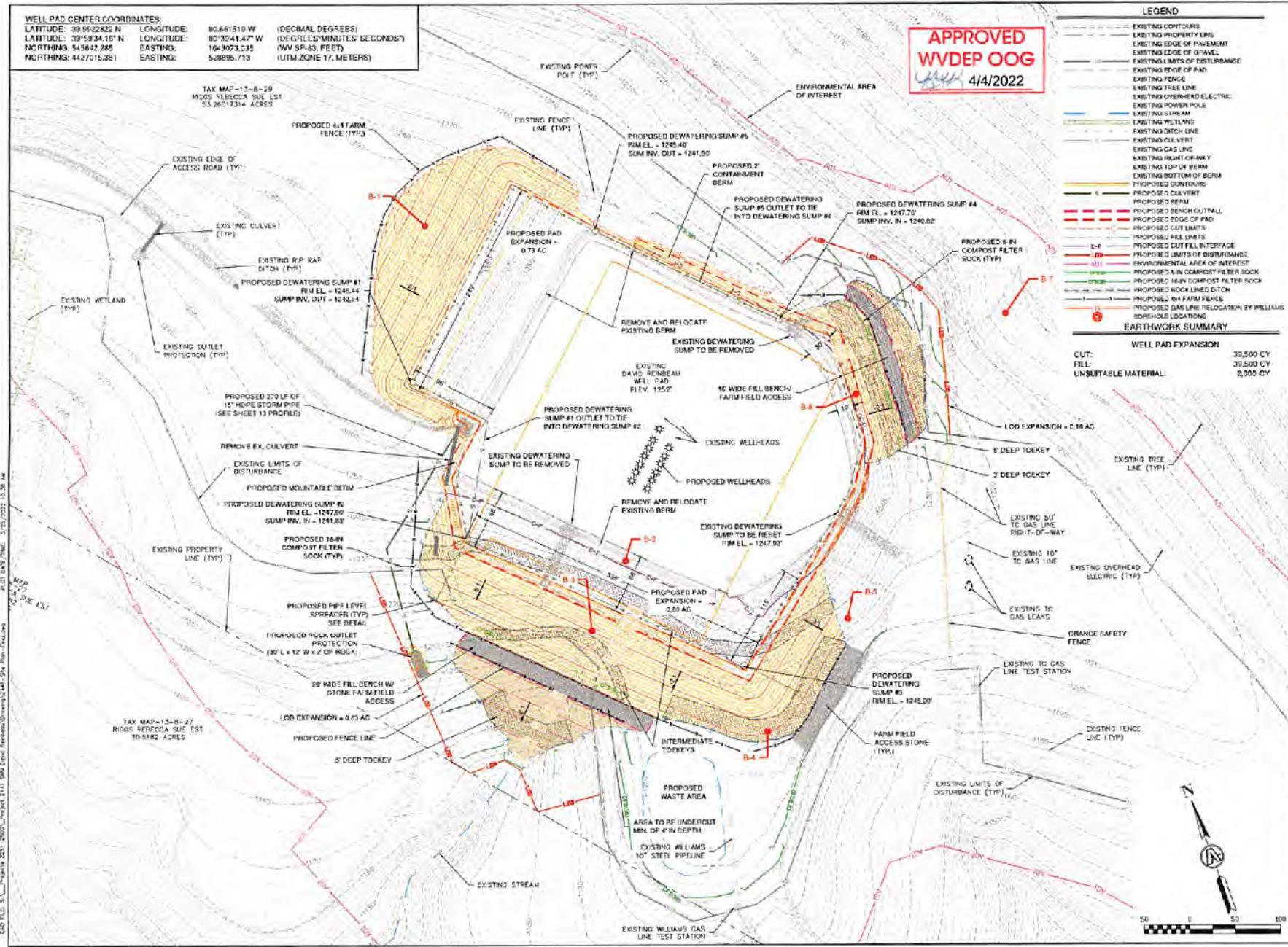
NO.	DATE	DESCRIPTION
1	3/24/2022	WVDEP COMMENTS ADDRESSED
2	3/24/2022	ACCOMMOD #1

PREPARED FOR:  
**SWN**  
 Southwestern Energy

SEAL:  
  
 MICHAEL R. HILL FOR  
 WEST VIRGINIA  
 PROFESSIONAL ENGINEER

PREPARED BY:  
  
**ASCENT**  
 Consulting & Engineering  
 291 DAVISSON RUN ROAD  
 CLARKSBURG, WV 26301  
 WWW.ASCENTCONSULTINGENGINEERS.COM  
 (304) 833-3463

PROJECT NUMBER	2441	DRAWN	EMS
DATE	03/24/2022	DESIGN	EMS
SCALE	AS SHOWN	CHECKED	MRN
CONSTRUCTION PLANS FOR SWN PRODUCTION COMPANY, LLC DAVID REINBEAU PAD EXPANSION SORGHUM RIDGE MARSHALL COUNTY, WV			
TITLE: OVERALL GRADING & ESC PLAN			
PLAN STATUS:	APPROVED FOR CONSTRUCTION	SHEET NO.	5



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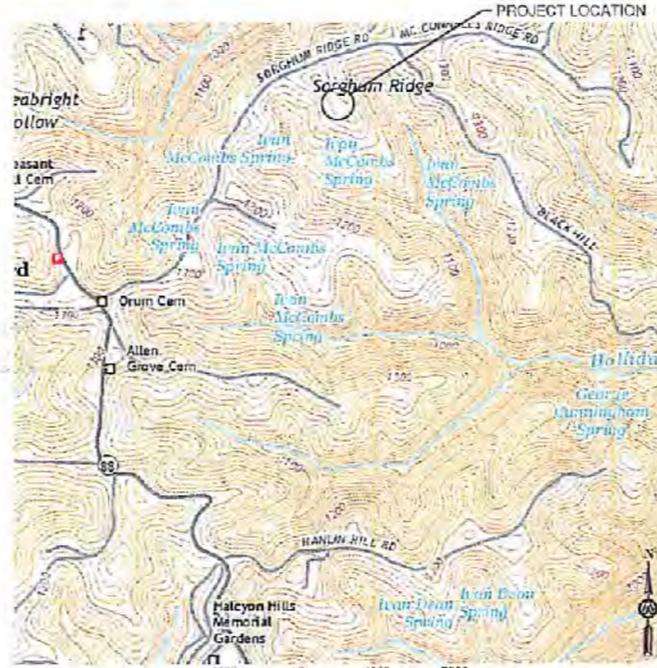
4705102439

SHEET INDEX

1	COVER
2	GENERAL NOTES
3	EXISTING CONDITIONS
4	CORE HOLE LOCATIONS
5	OVERALL GRADING & ESO PLAN
6	WELL PAD EXPANSION SUBGRADE PLAN
7	WELL PAD EXPANSION BASELINE PLAN
8	WELL PAD EXPANSION & CULVERT PROFILES
9-12	WELL PAD EXPANSION CROSS SECTIONS
13	CULVERT PROFILES
14-27	DETAILS
28-31	GEOTECH DESIGN & DETAILS
32-33	BORING LOGS

# SWN PRODUCTION COMPANY, LLC PROPOSED CONSTRUCTION PLANS FOR DAVID REINBEAU PAD EXPANSION MARSHALL COUNTY, WV NOVEMBER 2021

SWN QUICK ESTIMATE		
ITEM DESCRIPTION	UNIT	QUANTITY
MOBILIZATION & DEMOBILIZATION (LIMITED TO 10% OF BASE BID)		
MOBILIZATION LAYOUT	LS	1
CONSTRUCTION LAYOUT	LS	1
CLEANING & GRUBBING	AC	4.0
EARTHWORK	CY	39,500
UNSTABLE MATERIAL	CY	2,000
6" DEEP SOIL TO KEY (INCLUDES EXCAVATION, PIPE, STONE, FABRIC, & COLLECTION DRAINS)	LF	300
8" DEEP SOIL TO KEY (INCLUDES EXCAVATION, PIPE, STONE, FABRIC, & COLLECTION DRAINS)	LF	100
INTERMEDIATE TOE KEY (INCLUDES EXCAVATION, PIPE, STONE, & FABRIC)	LF	675
WELL PAD CONTAINMENT BEAM	LF	1,165
SEEDING & MULCHING (INCLUDES FERTILIZER)	AC	2.50
ROAD MAINTENANCE	LS	1
3.5" CRUSHER RUN LIMESTONE FOR WELL PAD (4')	TN	5,792
FLASHING NO. 1 STONE	TN	4,237
3" CRUSHER RUN LIMESTONE FOR WELL PAD BASE (12')	TN	11,245
18" COMPOST FILTER SOCK	LF	3,260
3" COMPOST FILTER SOCK	LF	605
18" HDPE CULVERT	LF	720
4" DIA FENCE	LF	710
DEWATERING PUMP, COMPLETE (INCLUDES SLOPE PIPE, PIPE LEVEL SPREADERS, BOLLARDS, ETC. PER DETAIL)	EA	5
12" THICK RIP-RAP SLOPE	SF	300
OUTLET PROTECTION (2' DEEP)	SF	300



MOUNDSVILLE, WV QUADRANGLE REFERENCE MAP

**DRIVING DIRECTIONS**

- 1) HEAD NORTH ON FORT PIERPONT DR. 0.3 MILES
- 2) TURN RIGHT ONTO N PIERPONT RD, 482 FEET
- 3) TURN RIGHT ONTO CHEAT RD, 0.5 MILES
- 4) TURN LEFT TO MERGE ONTO I-66 W TOWARD I-79, 0.5 MILES
- 5) MERGE ONTO I-66 W, 0.1 MILES
- 6) TAKE THE EXIT ONTO I-70 N TOWARD WASHINGTON, 45.3 MILES
- 7) TAKE THE EXIT ONTO I-70 WB TO N TOWARD WASHINGTON, 30.8 MILES
- 8) KEEP LEFT AT THE FORK TO CONTINUE ON I-470 W, 1.6 MILES
- 9) TAKE EXIT 2 TOWARD BETHLEM, 0.2 MILES
- 10) KEEP LEFT AND MERGE ONTO W BETHLEHEM BLVD, 32 FEET
- 11) MERGE ONTO W BETHLEHEM BLVD, 0.5 MILES
- 12) TURN RIGHT ONTO WV-88 SPRINGCREST RD, 4.7 MILES
- 13) TURN LEFT ONTO SORGHUM RIDGE RD, 0.1 MILES

**PROJECT COORDINATOR:**  
JOHN DUBOWSKI  
CONSTRUCTION SUPERINTENDENT  
SOUTHWESTERN PRODUCTION COMPANY, LLC  
1300 FORT PIERPONT DRIVE, SUITE 201  
MORGANTOWN, WV 26508  
PHONE: (204) 584-1671  
EMAIL: JOHN\_DUBOWSKI@SWN.COM

**ENGINEER:**  
ERIC SHORT, PROJECT MANAGER  
ASCENT CONSULTING & ENGINEERING  
2261 DAVISSON RUN FIELD  
CLARKSBURG, WV 26301  
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EMAIL: ERIC@ASCENTCONSULTINGENGINEERS.COM

**PROJECT MANAGER:**  
ZACHARY ASCENT,  
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2261 DAVISSON RUN ROAD  
CLARKSBURG, WV 26301  
PHONE: (204) 523-3463  
EMAIL: ZACH@ASCENTCONSULTINGENGINEERS.COM

**ENVIRONMENTAL:**  
WETLANDS OR SURFACE WATER  
INFORMATION WAS DELINEATED BY  
ASCENT CONSULTING & ENGINEERING  
DATED SEPTEMBER 2021

**TOPOGRAPHIC INFORMATION:**  
HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE  
NAD83 WEST VIRGINIA STATE PLANE, NORTH  
ZONE, IN U.S. SURVEY FEET.

LOCAL EMERGENCY SERVICES	
NAME	NUMBER
AMBULANCE	911
HOSPITAL EMERGENCY ROOM	(204) 845-3211
FIRE DEPARTMENT	911
POLICE DEPARTMENT	911
POISON CONTROL CENTER	(800) 222-1222

**LOCATION COORDINATES**

ACCESS ROAD ENTRANCE:			
LATITUDE: 39°09'086" N	LONGITUDE: 81°26'4170" W	(DECIMAL DEGREES)	
LATITUDE: 39°09'04.55" N	LONGITUDE: 81°26'52.43" W	(DEGREES/MINUTES/SECONDS)	
NORTHING: 549640.975	EASTING: 164253.852	(WV SP-83, FEET)	
NORTHING: 4427254.528	EASTING: 528642.076	(UTM ZONE 17, METERS)	

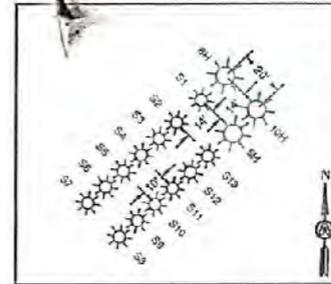
WELL PAD CENTER:			
LATITUDE: 39°09'2822" N	LONGITUDE: 81°26'1519" W	(DECIMAL DEGREES)	
LATITUDE: 39°09'34.16" N	LONGITUDE: 81°26'41.47" W	(DEGREES/MINUTES/SECONDS)	
NORTHING: 549842.225	EASTING: 1643073.015	(WV SP-83, FEET)	
NORTHING: 4427015.381	EASTING: 528695.113	(UTM ZONE 17, METERS)	

**LIMITS OF DISTURBANCE BY PROPERTY:**

PROPERTY#	PROPERTY OWNER	ACRES DISTURBED
25-13-0003-0229-0000	REINBEAU SHELLEY A & DAVID W	18.42

**TOTAL DISTURBED AREA: 18.42 ACRES**  
EXISTING DISTURBED AREA: 7.45 ACRES  
EXPANDED DISTURBED AREA: 0.99 ACRES

**EARTH WORK SUMMARY**  
TOTAL EARTHWORK: 39,500 CY  
TOTAL FILL: 39,500 CY  
WASTE (UNSTABLE MATERIAL): 2,000 CY



WELL HEAD LAYOUT  
NOT TO SCALE

**WEST VIRGINIA 811**  
CALL BEFORE YOU DIG!  
IT'S THE LAW!

MISS UTILITY OF WEST VIRGINIA  
1-800-4AS-8338  
WEST VIRGINIA STATE LAW  
(SECTION XIV, CHAPTER 24-C)  
REQUIRES THAT YOU CALL TWO  
BUSINESS DAYS BEFORE YOU DIG IN  
THE STATE OF WEST VIRGINIA.  
IT'S THE LAW!



NO.	DATE	DESCRIPTION

PREPARED FOR:  
**SWN**  
Southwestern Energy

SEAL:

PREPARED BY:  
**ASCENT**  
Consulting & Engineering

2261 DAVISSON RUN ROAD  
CLARKSBURG, WV 26301  
WWW.ASCENTCONSULTINGENGINEERS.COM  
(204) 523-3463

PROJECT NUMBER:	2441	DRAWN BY:	EMS
DATE:	11/17/2021	DESIGN BY:	EMS
SCALE:	AS SHOWN	CHECKED BY:	MRN
CONSTRUCTION PLANS FOR SWN PRODUCTION COMPANY, LLC DAVID REINBEAU PAD EXPANSION SORGHUM RIDGE MARSHALL COUNTY, WV			
TITLE:	COVER SHEET		
PLAN STATUS:	APPROVED FOR PERMITS	SHEET NO.:	1

Office of Oil and Gas

MAR 03 2022

WV Department of  
Environmental Protection

*MSK 2/23/2022*

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