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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)

Friday, June 23, 2023  
WELL WORK PERMIT  
Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC  
POST OFFICE BOX 12359

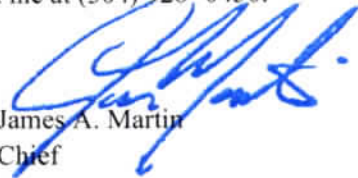
SPRING, TX 773914954

Re: Permit approval for DAVID REINBEAU MSH 6H  
47-051-02500-00-00

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 6H  
Farm Name: SHELLY A & DAVID W REINBEAU  
U.S. WELL NUMBER: 47-051-02500-00-00  
Horizontal 6A New Drill  
Date Issued: 6/23/2023

Promoting a healthy environment.

06/23/2023

# PERMIT CONDITIONS

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

## CONDITIONS

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

WW-6B  
(04/15)

API NO. 47-009 -  
OPERATOR WELL NO. David Reinbeau MSH 6H  
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- Marsh 07-Union 486-Moundville  
Operator ID County District Quadrangle

2) Operator's Well Number: David Reinbeau MSH 6H 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

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Target Formation- Marcellus, Down-Dip well to the North, Target Top TVD- 6462', Target Base TVD- 6518', Anticipated Thickness- 56', Associated Pressure- 4237

8) Proposed Total Vertical Depth: 6507'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 27841'

11) Proposed Horizontal Leg Length: 20591.51'

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: 774'

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16) Approximate Depth to Possible Void (coal mine, karst, other): None that we are aware of. MAY 23 2023

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

WV Department of  
Environmental Protection

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

*St. L. Co. Survey  
STRATA WORK  
4/24/2023*

4705102500

WW-6B  
(04/15)

API NO. 47-009 -  
OPERATOR WELL NO. David Reinbeau MSH 6H  
Well Pad Name: David Reinbeau MSH

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#	110'	110'	CTS
Fresh Water	13 3/8"	New	J-55	54.4#	476'	476'	552 sx/CTS
Coal	See	Interm	Casing				
Intermediate	9 5/8"	New	J-55	36#	2069'	2069'	789 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	27841'	27841'	Tail 5010sx/ 100' Inside Intermediate
Tubing							
Liners							

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:				

*Steve Conrad  
STRADER POWER  
4/24/2023*

WW-6B  
(10/14)

4705102500  
API NO. 47- 009 -  
OPERATOR WELL NO. David Reinbeau MSH 6H  
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- 12,500 psi @ 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.

4705102500

CEMENT ADDITIVES						
INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Number
SURFACE (FRESHWATER)	<del>XXXXXXXXXX</del>	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	S001	A-7P	0110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL PROTECTION	<del>XXXXXXXXXX</del>	INTEGRA SEAL	0600	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
	0047	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
	CamNet	<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>	55-NW	0880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4
	DO47	FP 28L	<del>XXXXXXXXXX</del>	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-89-4
	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	OX157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	CJ540	HP FLUID LOSS ADDITIVE	ALIPHATICAMIDE POLYMER	PROPRIETARY
	0255	<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	0501	LOW TEMP FLUID LOSS ADD	POWDERED POLYSACCHARIDE	PROPRIETARY
	<del>XXXXXXXXXX</del>	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301	<del>XXXXXXXXXX</del>	VISCOSI FIER/ANTI-SETTLING AGENT	REFINED POLYMER/ CHRYSTALLINE SILICA	PROPRIETARY
	D198	R-3	<del>XXXXXXXXXX</del>	CEMENT RETARDER	LIGNIN	8068-51-6
	SUGAR	SUGAR	CJ795	CEMENT RETARDER	SUCROSE	57-50-1
	D065	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	DISPERSANT	SODIUM POLYNAPHTHALENE SULFONATE	8068-51-6
D800	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	CEMENT RETARDER (Mid-Temperature)	SODIUM LIGNOSULFONATE	8061-51-6	

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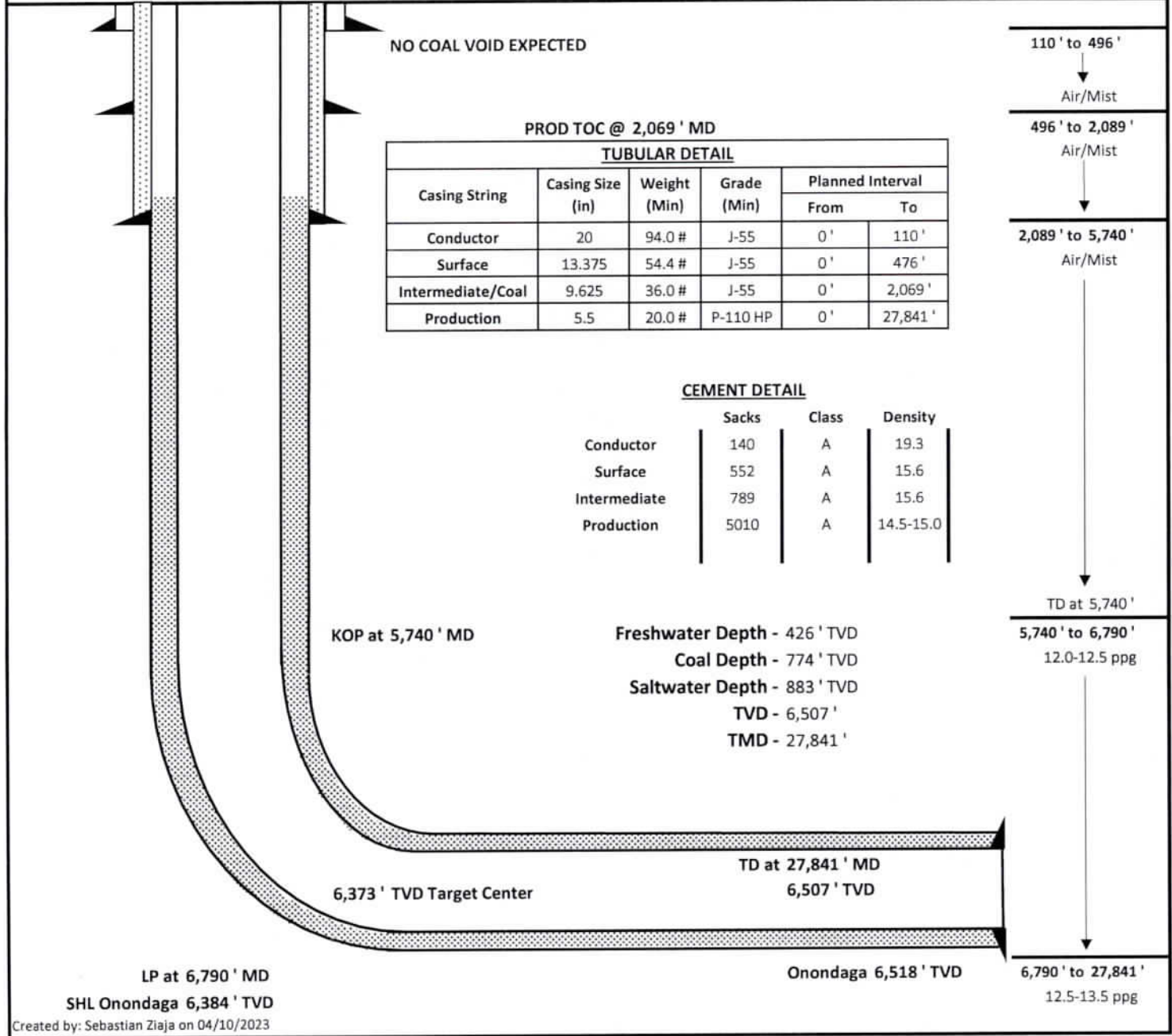
MAY 23 2023

WV Department of  
Environmental Protection

06/23/2023

**Southwestern Energy Company** **Proposed Drilling Program**

Well: DAVID REINBEAU MSH 6 Re-entry Rig: SDC 41  
 Field: NORTH VICTORY FIELD WET Prospect: Marcellus Shale  
 County: MARSHALL State: WV  
 SHL (NAD83): 39.992731 Latitude -80.661584 Longitude  
 BHL (NAD83): 39.936837 Latitude -80.638755 Longitude  
 KB Elev: 1,277 ft MSL KB: 26 ft AGL GL Elev: 1,251 ft MSL



Created by: Sebastian Ziaja on 04/10/2023

*Steve Lewis  
 513-200-6000  
 4/24/2023*

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 Environmental Protection

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**SV**  
Production Company

4705102500

1300 Fort Pierpont Dr. Ste 201  
McIntown, WV 26508  
Tel: 304 884 1610  
Fax: 304 471 2497  
www.swn.com

March 14, 2023

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

**RE:** Proposed New Well: David Reinbeau MSH 6H

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 Reinbeau's 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*

Brittany Woody  
Staff Regulatory Specialist  
Southwestern Energy Production Company, LLC

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$\frac{R^2}{A} \rightarrow V^2$

The Right People doing the Right Things,  
wisely investing the cash flow you make  
understand Assets will create Value.™

06/23/2023



WW-9  
(4/16)

API Number 47 - 059 - \_\_\_\_\_  
Operator's Well No. David Reinbeau MSH 6H

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) Hollidays Run of Wheeling Creek Quadrangle Moundsville

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

Will a pit be used? Yes  No

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

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

Proposed Disposal Method For Treated Pit Wastes:

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

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

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air drill to KOP, fluid drill with 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, FMS 353100

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.

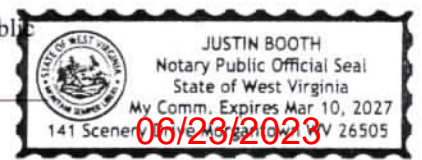
Company Official Signature *Brittany Woody*  
Company Official (Typed Name) Brittany Woody  
Company Official Title Senior Regulatory Analyst

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MAY 23 2023  
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Subscribed and sworn before me this 12th day of APRIL, 20 23

*[Signature]* Notary Public

My commission expires 3/10/2027



**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: *Stacy Green* STRADER LOWER

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

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MAY 23 2023

WV Department of  
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Title: Oil & Gas Inspector

Date: 4/24/2023

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 a Shale Gas Separator, 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 highly weighted 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 haul off to an approved landfill site. (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 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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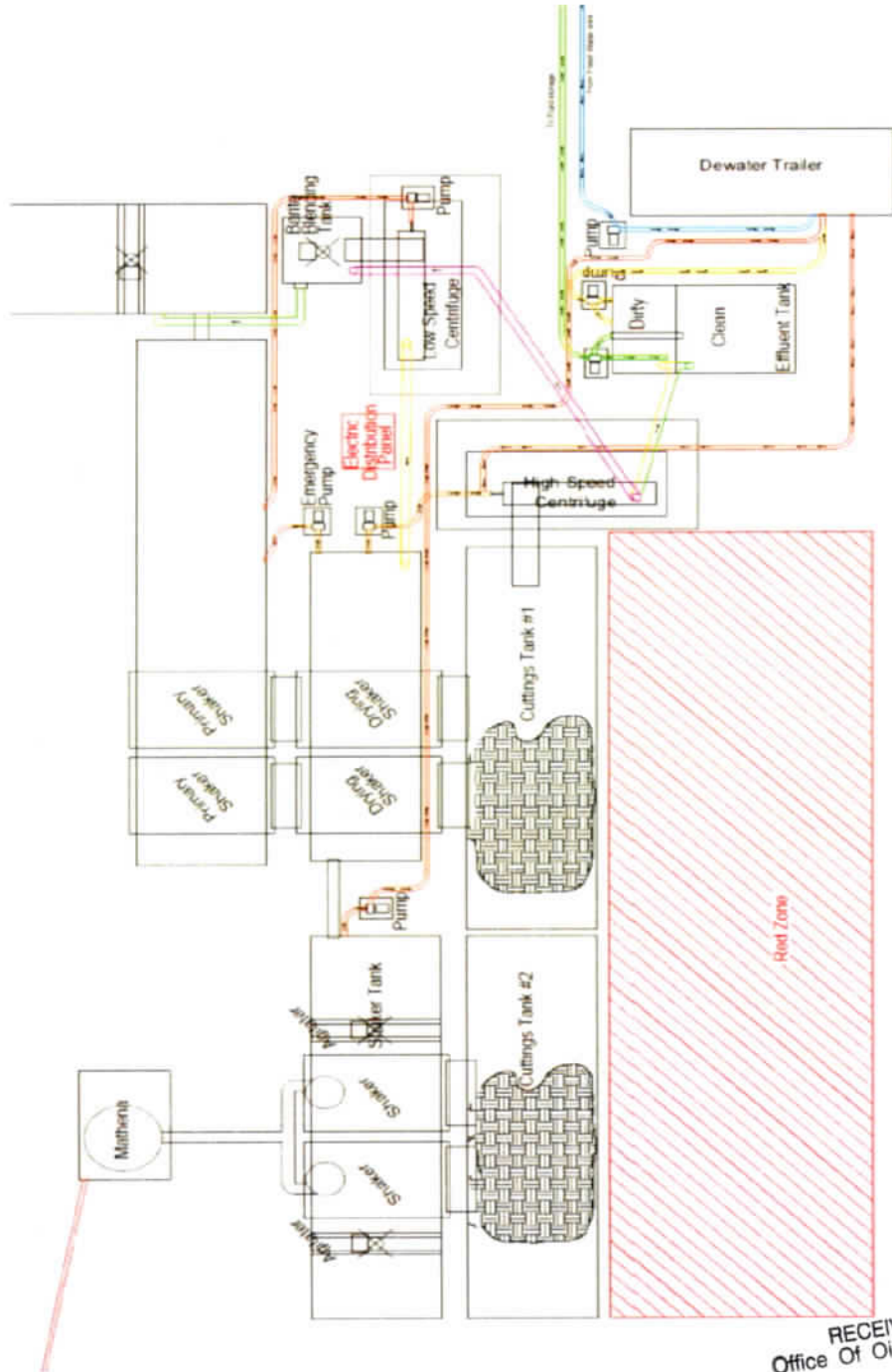
8/30/2023  
06/23/2023

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EXAMPLE SCHEMATIC FOR CLOSED LOOP SOLIDS CONTROL SYSTEM

**SWN**  
Southwestern Energy

**Solids Control Layout**



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6/30/2023  
06/23/2023

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

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

Air

Freshwater (if needed based on conditions)

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

Air

**Production Hole:**

Air

Synthetic Oil (Base Fluid for mud system)

Barite

Calcium Chloride

Lime

Organophilic Bentonite

Primary and Secondary Emulsifiers

Gilsonite

Calcium Carbonate

Friction Reducers

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# WVD Seeding Specification



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

## NON-ORGANIC PROPERTIES

Seed Mixture: ROW Mix	SWN Supplied
Orchardgrass	40%
Timothy	15%
Annual Ryegrass	15%
Brown Top Millet	5%
Red Top	5%
Medium Red Clover	5%
White Clover	5%
Birdsfoot Trefoil	5%
Rough Bluegrass	5%

All legumes are inoculated at 5x normal rate

Apply @ 100lbs per acre April 16th- Oct. 14th

Apply @ 200lbs per acre Oct. 15th- April 15th PLUS 50lbs per acre of Winter Wheat

## 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

Pelleted Lime @ 2 Tons per Acre

## SOIL AMENDMENTS

10-20-20 Fertilizer

Pelleted Lime

\*Apply @ 500lbs per Acre

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.

## 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

RECEIVED  
Office Of Oil and Gas  
MAY 23 2023  
WV Department of Environmental Protection

# MARCELLUS WELL DRILLING PROCEDURES

# AND

4705102500

# 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 6H**  
**Moundsville QUAD**  
**Union DISTRICT**  
**MARSHALL COUNTY, WEST VIRGINIA**

Submitted by:

Name: Brittany Woody

Date: 4/10/2023

*Brittany Woody*

Title: Senior Regulatory Analyst

SWN Production Co., LLC

Approved by:

Name: *John Gano* <sup>STAFF</sup> <sub>ENGINEER</sub>

Date: 4/24/2023

Title: *Oil & Gas Inspector*

Approved by:

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

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

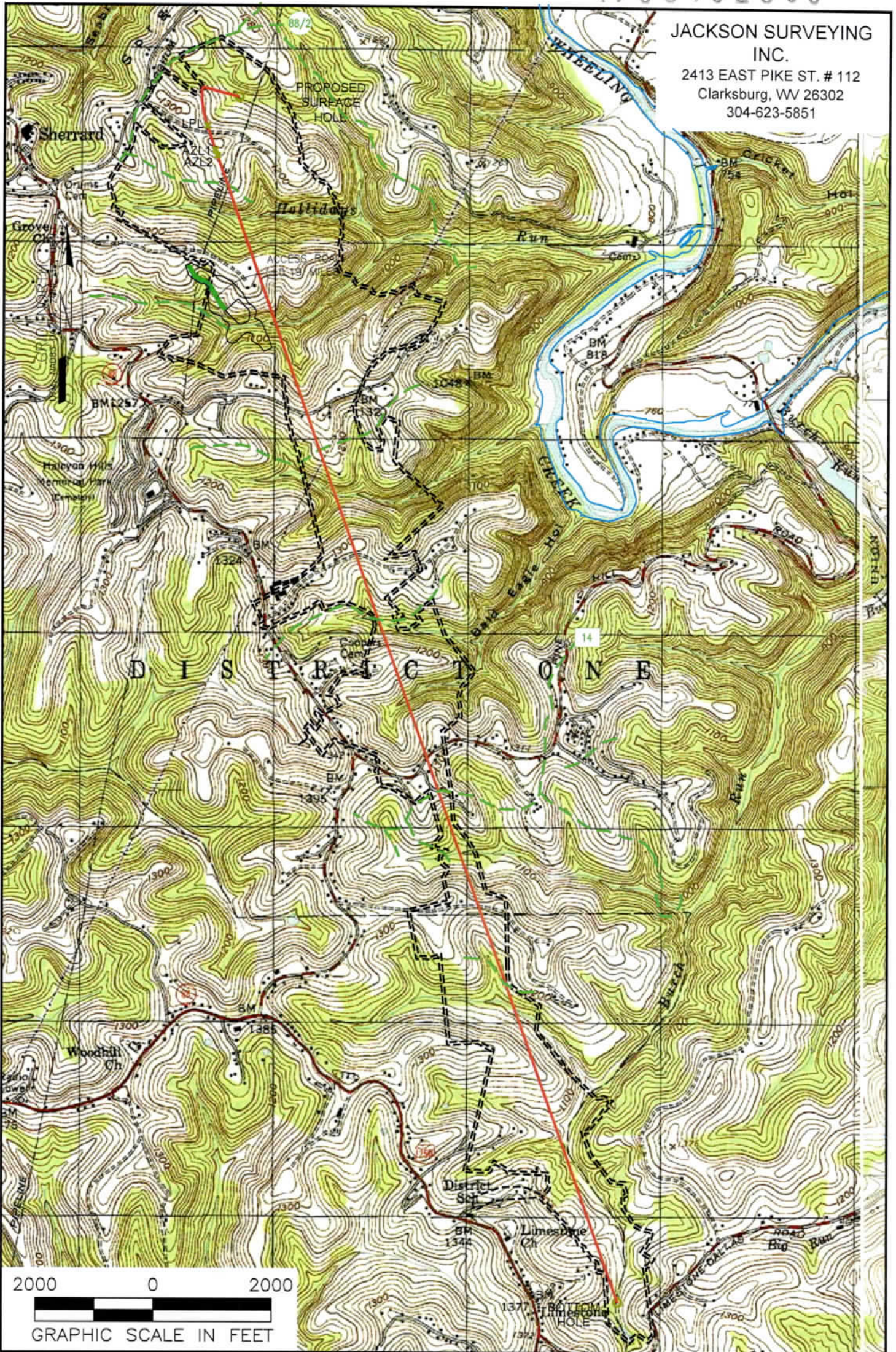
Title: \_\_\_\_\_

SWN PRODUCTION COMPANY, LLC – CONFIDENTIAL

RECEIVED  
Office Of Oil and Gas  
MAY 23 2023  
WV Department of  
Environmental Protection

06/23/2023

**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
- LANDING POINT LOCATION
- FLOOD PLAIN
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- LEASE BOUNDARY
- PROPOSED PATH

**06/23/2023**

<b>WELL OPERATOR:</b> SWN PRODUCTION COMPANY, LLC	<b>WELL (FARM) NAME:</b> DAVID REINBEAU MSH	<b>WELL #</b> 6H	<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 10,250'

# JACKSON SURVEYING INC.

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

Latitude: 39°57'30" BOTTOM HOLE

3,856'

<b>SURFACE HOLE LOCATION (SHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,427,005.250 EASTING: 528,890.155
<b>LANDING POINT LOCATION (LPL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,426,855.977 EASTING: 528,726.529
<b>BOTTOM HOLE LOCATION (BHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,420,809.214 EASTING: 530,864.190



LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 16°43'08" W	1,068.37'	SHL TO LANDMARK	FENCE CORNER
L2	N 57°23'01" W	1,265.03'	SHL TO LANDMARK	FENCE CORNER
L4	S 18°13'01" E	386.32'	LPL TO AZL1	
L5	S 18°51'32" E	63.88'	AZL1 TO AZL2	

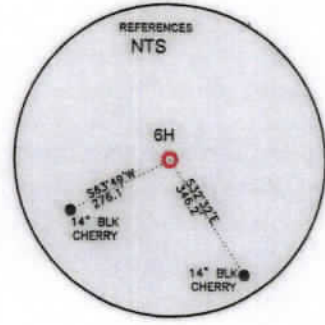
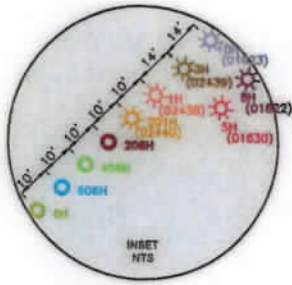
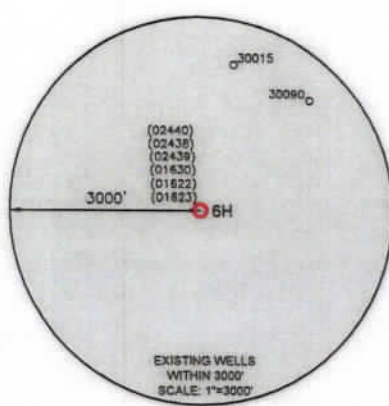
  

LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	S 47°37'35" W	726.66'	1,288.98'	SHL TO LPL

Longitude: 80°37'30" BOTTOM HOLE 7,831'  
Longitude: 80°37'30" SURFACE HOLE 2,648'



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



### 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.
3. 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*



(+) 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)

COMPANY: **SWN** Production Company, LLC

DAVID REINBEAU MSH

OPERATOR'S WELL #: 6H

API WELL #: **47** STATE **051** COUNTY **02500** PERMIT

WELL TYPE: OIL  WASTE DISPOSAL  PRODUCTION  DEEP  GAS  LIQUID INJECTION  STORAGE  SHALLOW

WATERSHED: HOLLIDAYS RUN OF WHEELING CREEK (HUC-10) ELEVATION: 1250.9'

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: 6,507 TVD 27,841 TMD

06/23/2023

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>		

<b>REVISIONS:</b>	DATE: 04-13-2023
	DRAWN BY: N. MANO
	SCALE: 1" = 2000'
	DRAWING NO:
	WELL LOCATION PLAT

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



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*

47-051-02500

06/23/2023

REVISIONS:	COMPANY:			DATE: 04-13-2023
				DRAWN BY: N. MANO
	OPERATOR'S	DAVID REINBEAU MSH		SCALE: N/A
	WELL #:	6H		DRAWING NO:
	DISTRICT:	COUNTY:	STATE:	WELL LOCATION PLAT 2
	UNION	MARSHALL	WV	

**JACKSON SURVEYING  
INC.**

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

WELL BORE TRACTS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	REINBEAU SHELLY A & DAVID W (S/R)	13-8-29
2	REINBEAU SHELLY A & DAVID W (S)	13-8-27
3	MCCOMBS JOHN A SR, THOMAS E & BETH (S)	13-8-26
4	MCCOMBS JOHN A SR, THOMAS E & BETH (S)	13-8-11
5	CONNER AMBER D & DAVID HANES JR (S)	13-8-14
6	CONNER AMBER D & DAVID HANES JR (S)	13-8-13
7	CONNER AMBER D & DAVID HANES JR (S)	13-8-12
8	ROCKY PEARL FARM LLC (S)	13-9-6
9	JONES NICHOLAS & EVELINE J (S)	13-9-8
10	EDISON MARK C ET UX (S)	13-9-9
11	ELIAS GRANT THOMAS ET UX (S)	13-9-32
12	BERTRAM BRIAN B & ADDIE L (S)	13-9-30
13	HUCK LAURA LEE & MARY L (S)	13-9-29.2
14	KELCH SCOTT EDWARD ET UX (S)	13-9-29.5
15	CHAMBERS DOROTHY - LIFE (S)	13-14-7
16	MCWHORTER LELAND & DEBORAH 2018 IRREVOCABLE TRUST (S)	13-14-10
17	BRIGGS ANDREW & MAXCINE (S)	13-14-11
18	BENSON CHAZ M (S)	13-14-28
19	D'CAGNA LUNN L (S)	13-14-29.5
20	FOSTER AARON M & MARSHA ANN (S)	13-14-29.8
21	FOSTER CHARLES S ET UX (S)	13-14-38.1
22	SMITH EDWARD LEE II (S)	14-5-26
23	BLEDSE DAVID R & KIMBERLY K (S)	14-5-26.1
24	BLEDSE BILLY JAMES SR & NORA; LIFE - BLEDSE TIMOTHY & BLEDSE DAVID (S)	14-5-26.2
25	HILL KAY F ET AL (S)	14-5-28
26	GORAKSHYA-SEVA & ENV EDU TR OF AMERICA INC (S)	15-2-18.2
27	HILL KAY F ET AL (S)	14-5-30
28	GORAKSHYA-SEVA & ENV EDU TR OF AMERICA INC (S)	15-7-2
29	MILLER R CRAIG & DONITA D (S)	15-7-2.4
30	WEISNER GEORGE LET UX - TOD (S)	15-7-1.3

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	ALEXANDER LORRAINE	13-7-20
B	ALEXANDER LORRAINE	13-7-18.1
C	ALEXANDER LORRAINE	13-7-18
D	SAMPSON EDITH VIRGINIA EST	13-7-19
E	NARRISH KEVIN	13-8-30
F	SOUTH CHRISTOPHER R	13-8-31
G	KOSTELECKY JOSEPH J JR & CAROLYN - TOD	13-8-31.1
H	KOSEM DEBBIE & KARL	13-8-32
I	ARCHEY RICK L ET AL	13-8-1
J	LIBERTY JOHN ET UX	13-8-10
K	BIRKETT WILLIAM N III & CHASITY A	13-8-10.2
L	LILLEY CONSTANCE E - TOD	13-8-10.1
M	LILLEY CONSTANCE E - TOD	13-8-7.7
N	KINNEER JAMIE ET UX	13-8-7.9
O	KINNEER VERNON A JR & JAMIE	13-8-6
P	CUNNINGHAM GEORGE A	13-9-3
Q	CUNNINGHAM GEORGE A	13-9-5
R	LOY CHARLES E SR - TOD	13-9-5.2
S	WILSON RONALD A ET UX	13-9-5.3
T	LOY CHARLES E SR - TOD	13-9-5.1
U	EDISON MARK C ET UX	13-9-9.1
V	LOY CHARLES E SR - TOD	13-9-4
W	EDISON MARK C ET UX	13-9-10
X	CUNNINGHAM BESSIE JANE	13-9-11
Y	SHERMAN FAMILY TRUST	13-9-26
Z	BERTRAM BRIAN B & ADDIE	13-9-29
A2	HUCK MARY L & HUCK MIA MARIE	13-9-29.4
B2	ZUKOFF JACOB P ET UX	13-9-29.6
C2	FANKHAUSER TERRY NEAL ET UX	13-9-29.3
D2	FANKHAUSER TERRY NEAL ET UX	13-9-29.1
E2	GOMPERS SHANNON	13-9-28
F2	MYSLUWIEC JOHN A & MARY ANN	13-9-27
G2	MYSLUWIEC JOHN A & MARY ANN	13-9-26.2
H2	THOMPSON MICHAEL C & CRYSTAL M	13-14-13
I2	ROGERSON CHESTER ET AL - LIFE	13-14-12
J2	MOORE NANCY ROGERSON	13-14-27.3
K2	ROGERSON CHESTER ET AL - LIFE	13-14-27
L2	GRAY CAROLYN L	13-14-24
M2	GRAY CAROLYN L	13-14-24.2
N2	FOSTER CHARLES S ET UX	13-14-38.5
O2	SMITH RICHARD A	14-5-27
P2	BLEDSE DAVID R & KIMBERLY K	14-5-26.3
Q2	BLEDSE BILLY J JR & CLARA M	14-5-26.4
R2	ECO VRINDABAN INC	15-2-18
S2	HUNT DAVID	15-2-18.1
T2	SAWYER ANGELA MARIE	15-7-2.6
U2	FRIED GABRIEL	15-7-2.3
V2	PHILLIPS MARIAN E	15-7-2.5
W2	MEBERG MARY P - TOD	15-7-2.2
X2	WIESNER GEORGE L ET UX - TOD	15-7-2.1
Y2	SOFSKY EMIL P JR ET AL	15-7-6.4
Z2	ISKCON NEW VRINDABAN INC	15-7-1.4

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A3	ISKCON NEW MATHURA VRINDABAN	15-7-1.2
B3	MOORE DAVID & SHIRLEY	14-5-77
C3	PETTIT DIANA LYNN	14-5-31.2
D3	HILL KAY F ET UX	14-5-32.4
E3	LILLEY ROGER W JR & TRICIA	14-5-32.6
F3	HILL HOWARD B EST	14-5-29.2
G3	HILL KAY F ET UX	14-5-29.1
H3	HILL KAY F ET UX	14-5-29
I3	LILLEY ROGER W ET UX	14-5-32.5
J3	TATICH DANIEL EDWARD TRUST	14-5-36
K3	FRANCIS LISA JANE	14-5-37
L3	KOONTZ CARL JR ET AL	14-5-24
M3	FOSTER CAITLIN E	13-14-50
N3	WILSON ROBERT J & REBECCA S	14-5-24.6
O3	FOSTER CHARLES S & BREANNA	13-14-38.2
P3	HENRY G H & JANET FAMILY TRUST	13-14-29
Q3	SNIDER LINDA ELIZABETH	13-14-29.11
R3	MASON CURTIS G ET UX	13-14-29.7
S3	ANDERSON ROBERT P & BECKI L	13-14-29.6
T3	ANDERSON ROBERT P & BECKI L	13-14-29.1
U3	MCDIFFITT CLYDE J & KAREN - TOD	13-14-9.1
V3	GODDARD RUSSELL E	13-14-9.3
W3	COULTER JAMES G & SONDR A K	13-14-9.7
X3	ROVER PIPELINE LLC	13-14-9
Y3	ROVER PIPELINE LLC	13-14-8
Z3	BECKNER DAVID E & DEBORAH K	13-14-7.3
A4	LEWEY CHARLES L & MARGARET A	13-14-7.1
B4	DORAN BRIAN W ET UX	13-14-7.4
C4	COTTRELL COLE T	13-14-7.5
D4	GIVENS BRUCE E ET UX	13-14-7.2
E4	CHAMBERS DOROTHY	13-14-6.2
F4	MURPHY MICHAEL A & BLACK AMY S	13-14-7.6
G4	FREEMAN RAYMOND CHRISTOPHER	13-14-4
H4	SUNDERHAUS TINA M & STEPHEN G	13-14-7.7
I4	PARSONS JAY D ET UX	13-14-1
J4	LILLEY KENNETH R & CARLOTTA J	13-9-31
K4	CUNNINGHAM JOHN F	13-9-29.7
L4	PHILLIPS JANET M	13-9-32.6
M4	PHILLIPS JANET M	13-9-32.8
N4	WRIGHT DAVID JAMES	13-9-32.4
O4	CRAKE ROBERT J & SHELLEY S	13-9-32.7
P4	CRAKE ROBERT J & SHELLEY S	13-9-32.3
Q4	ZUKOFF LISA B ET AL	13-9-32.2
R4	EAGLE LTD	13-9-32.1
S4	CHAMBERS ROBIN L & DENICE E	13-9-33.2
T4	CHAMBERS ROBIN L & DENICE E	13-9-33.1
U4	MILLER KENNETH LEE - TOD	13-9-33
V4	METS PROPERTIES LLC	13-10-23
W4	METS PROPERTIES LLC	13-10-22
X4	JONES NICHOLAS & EVELINE J	13-10-21.8
Y4	JONES NICHOLAS & EVELINE J	13-10-21.7
Z4	GANTZER THOMAS P & JILL N	13-10-21.3

47-051-02 06/23/2023

REVISIONS:	COMPANY:	 	
	OPERATOR'S	DAVID REINBEAU MSH	
	WELL #:	6H	
	DISTRICT:	COUNTY:	STATE:
	UNION	MARSHALL	WV
			DATE: 04-13-2023
			DRAWN BY: N. MANO
			SCALE: N/A
			DRAWING NO:
			WELL LOCATION PLAT 3

**JACKSON SURVEYING  
INC.**

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

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A5	RIGGLE STACY L	13-10-21.9
B5	MONTGOMERY TORIE	13-10-21.2
C5	MELNIK BRUCE A ET UX	13-10-21.1
D5	MELNIK BRUCE A ET UX	13-10-21
E5	CARTER KELLY J	13-10-20
F5	CARTER KELLY J	13-10-19
G5	HIERONIMUS C KEITH ET UX	13-8-15
H5	MCLAUGHLIN SHAWN & ELIZABETH	13-8-23
I5	PERRY JOSEPH P JR	13-8-24
J5	THORN JACLYN A & JASON K	13-8-25
K5	CRAWFORD GARY J	13-7E-7
L5	JOSEPH WILLIAM F & SUSAN L	13-7E-8
M5	CAIN ROGER L II	13-7E-10
N5	MCCLINTOCK JOSIE & LARRY	13-7-22.4
O5	SHEPHERD JAMES LEE II	13-7-23
P5	REINBEAU RONALD W & FRIEDA A - LIFE	13-7-22.2
Q5	REINBEAU DAVID W & SHELLY A	13-7-22.3
R5	REINBEAU DAVID W & SHELLY A	13-7-21.1
S5	BOWMAN MICHAEL ET UX	13-8-28
T5	BOWMAN MICHAEL J & CONSTANCE G	13-7-21

47-051 06/23/2023

REVISIONS:	COMPANY:	 	
	OPERATOR'S	DAVID REINBEAU MSH	DATE: 04-13-2023
	WELL #:	6H	DRAWN BY: N. MANO
	DISTRICT:	UNION	SCALE: N/A
	COUNTY:	MARSHALL	DRAWING NO:
	STATE:	WV	WELL LOCATION PLAT 4

WW-6A1  
(5/13)

Operator's Well No. DAVID REINBEAU MSH 6H

**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"

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

\*Horizontal well unit utilization - Subject to unitization filing with the West Virginia Oil and Gas Conservation Commission.

**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 Braugh  
 Its: Staff Landman

TMP	LESSOR	LESSEE	ROYALTY	BL/P/G	% Interest Not Leased/Owned by SWN
1	13-0008-0025-0000 Shelly A. Reinbeau and David W. Reinbeau, her husband, joint tenants, with right of survivorship	Chesapeake Appalachia, LLC SWN Production Company, LLC	14.00%	688/424 33/110	0%
2	13-0008-0027-0000 Shelly A. Reinbeau and David W. Reinbeau, her husband, joint tenants, with right of survivorship	Chesapeake Appalachia, LLC SWN Production Company, LLC	14.00%	688/424 33/110	0%
3	13-0008-0026-0000 Royalty Owner	n/a	n/a	n/a	11.815556%
	Ivan McCombs, a/k/a Ivan W. McCombs and Alma Jean McCombs, as joint tenants with the right of survivorship (Life Tenant), Agent, and John A. McCombs, Sr. and Marilyn Sue McCombs, husband and wife (as Remainderman); and Thomas E. McCombs and Beth Ellen McCombs, husband and wife, as joint tenants with the right of survivorship (as Remainderman)	Chesapeake Appalachia, LLC SWN Production Company, LLC	18.00%	754/547 33/110	
	Allan G. Ketzell II a/k/a Allan G. Ketzell and Patricia L. Ketzell, husband and wife	SWN Production Company, LLC	15.00%	1089/186	
	Amy W. Ferrer, a/k/a Amy W. Ratcliff Ferrer, a divorced woman and not remarried	SWN Production Company, LLC	15.00%	1035/25	
	Ann Cox, a/k/a Ann Cox Boyce, and Chris Boyce, husband and wife	Chesapeake Appalachia, LLC SWN Production Company, LLC	18.00%	836/519 33/110	
	Ashley Elizabeth Johnson, single	SWN Production Company, LLC	18.00%	1152/409	
	Betty Moore, f/a Betty Wilson and Allan C. Moore, wife and husband	SWN Production Company, LLC	15.00%	1071/616	
	Carol DeBerry, single woman	Chesapeake Appalachia, LLC SWN Production Company, LLC	18.00%	834/146 33/110	
	Carol M. Rainbow, a widow and not remarried	SWN Production Company, LLC	18.00%	1104/558	
	Carol V. Ridgely and Paul D. Ridgely, wife and husband	Chesapeake Appalachia, LLC SWN Production Company, LLC	18.00%	827/24 33/110	
	Catherine H. Stell a/k/a Catherine Hamner Stell a/k/a Catherine Jane Stell, a widow and not remarried	SWN Production Company, LLC	17.00%	1114/207	
	Craig W. Farnsworth, single, individually, as Executor of the Estate of M. Martha Ormiston, Trustee and Beneficiary of the M. Martha Ormiston Revocable Trust, and Co-Trustee and Beneficiary of the Joyce R. Farnsworth Revocable Trust dated April 30, 1998	SWN Production Company, LLC	18.00%	1148/434	
	Cynthia A. Thompson, married and doing business in her sole and separate right	Chesapeake Appalachia, LLC SWN Production Company, LLC	18.00%	795/336 33/110	
	David C. Farnsworth, married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	1148/428	
	David Morgan Wilson, II, a married man dealing in his sole and separate property	SWN Production Company, LLC	17.00%	1072/335	
	Dawn Joyce Zimmerman, f/a Dawn Joyce Wilson, a married woman dealing in her sole and separate property	SWN Production Company, LLC	17.00%	1073/241	
	Diane R. Fuchs Nelms, a/k/a Diane R. Fuchs Nelms, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	1075/354	
	Dorothy A. Magness, f/a Dorothy A. Clovis, f/a Annette Clovis, and Charles W. Magness, her husband	Chesapeake Appalachia, LLC SWN Production Company, LLC	18.00%	792/59 33/110	
	Douglas Jackson Coombs, a single man	Chesapeake Appalachia, LLC SWN Production Company, LLC	18.00%	830/70 33/110	
	George M. Clovis and Inez Clovis, his wife	Chesapeake Appalachia, LLC SWN Production Company, LLC	18.00%	795/325 33/110	
	Gerard M. Wilson a/k/a G. Michael Wilson, a married man dealing in his sole and separate property	SWN Production Company, LLC	17.00%	1103/433	
	Gilda R. Coombs, a/k/a Gilda T. Coombs, widow	Chesapeake Appalachia, LLC SWN Production Company, LLC	18.00%	795/312 33/110	
	Huntington National Bank of West Virginia, successor to First National Bank of Morgantown, Trustee of the David A. Wilson Trust, datine January 7, 1993	SWN Production Company, LLC	18.00%	1112/556	
	James F. Pransfield, Sr., a widower and not remarried	SWN Production Company, LLC	17.00%	1097/425	
	James Shannon Coombs, II, a single man	Chesapeake Appalachia, LLC SWN Production Company, LLC	18.00%	795/302 33/110	
	Judith Ann Fuchs Isaly, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	1073/572	
	Kay S. Leary, a/k/a Kay C. Leary, and Henry B. Leary, her husband	Chesapeake Appalachia, LLC SWN Production Company, LLC	18.00%	792/65 33/110	

		Kenneth Lee Brandfass and Terry Brandfass, husband and wife	SWN Production Company, LLC	18.00%	1072/2355		0%
		Kenneth Raymond Fuchs, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1076/3448		
		Kristen Kay Wilkerson and Kenneth L. Wilkerson, wife and husband	SWN Production Company, LLC	15.00%	1040/227		
		Larry Gene Fuchs, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1077/45		
		Marshall Raymond Whitaker, III, a single man	SWN Production Company, LLC	15.00%	1069/296		
		Marti Brown, single woman	Chesapeake Appalachia, L.L.C.	18.00%	827/12		
		Mary Elizabeth Fuchs Boston, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	33/110		
		Mary Kathryn Coombs Howard, divorced	SWN Production Company, LLC	18.00%	1077/50		
		Matthew S. Cox, a single man	Chesapeake Appalachia, L.L.C.	18.00%	795/307		
		Michael A. Gephart, a/k/a Michael Allen Gephart and Velvet M. Gephart, husband and wife	SWN Production Company, LLC	15.00%	33/110		
		Nancy Hastings Crow, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	1049/532		
		Patricia A. Foreman, a/k/a Patricia C. Foreman, a widow	SWN Production Company, LLC	15.00%	1061/305		
		Patricia Sue Woodrum, a single woman	SWN Production Company, LLC	15.00%	1041/475		
		Ralph W. Gephart, Jr., a/k/a Ralph Gephart, Jr., a single man	Chesapeake Appalachia, L.L.C.	15.00%	1061/315		
		Rebecca Hastings Severino, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	792/4		
		Richard T. Ratcliff and Karen T. Ratcliff, husband and wife	SWN Production Company, LLC	15.00%	33/110		
		Robert Maxwell Howard, a single man	SWN Production Company, LLC	15.00%	1040/232		
		Robert V. Fuchs and Linda S. Fuchs, husband and wife	SWN Production Company, LLC	15.00%	1035/80		
		Robert Virgil Hastings, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	18.00%	795/331		
		Ronald Allen Kline and Mary Katharina Kline, his wife	SWN Production Company, LLC	18.00%	33/110		
		Russell David Johnson, individually and as beneficiary of the Joyce R. Farnsworth Revocable Trust dated April 30, 1998	SWN Production Company, LLC	15.00%	1072/545		
		Ruth Hastings Donovan, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	1041/470		
		Sandra Lynn Marshall and John Marshall, wife and husband	SWN Production Company, LLC	18.00%	1148/79		
		Shannon Griffin Hamner and Michele Marie Hamner, his wife	SWN Production Company, LLC	18.00%	1151/86		
		Sharon L. Brechon and Timothy W. Brechon, her husband	SWN Production Company, LLC	15.00%	1041/231		
		Stephanie A. Smith, a single woman	Chesapeake Appalachia, L.L.C.	18.00%	827/18		
		Stuart C. Dillon, married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	33/110		
		Stuart Krieg Hastings, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	15.00%	800/6		
		Susan Amanda Cox, a/k/a Susan Amanda Cox Bailey	SWN Production Company, LLC	18.00%	33/110		
		Susan R. Gierfory and Larry R. Gierfory, her husband	Chesapeake Appalachia, L.L.C.	18.00%	791/329		
		Thomas Michael Johnson, married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	33/110		
		Virginia Anne Yeater, a/k/a Virginia G. Yeater, a single woman	SWN Production Company, LLC	18.00%	1151/80		
		Vivian Marie Martin, nee Vivian Dillon, widow	Chesapeake Appalachia, L.L.C.	18.00%	795/317		
4	13-0008-0011-0000	Nan McCombs, a/k/a Nan W. McCombs and Alma Jean McCombs, as joint tenants with the right of survivorship (Life Tenant); Agent; and John A. McCombs, Sr. and Marilyn Sue McCombs, husband and wife (as Remainderman); and Thomas E. McCombs and Beth Ellen McCombs, husband and wife, as joint tenants with the right of survivorship (as Remainderman)	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	754/547 33/110		0%
5	13-0008-0014-0000	WV Minerals, Inc.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	788/196 33/110		0%
6	13-0008-0013-0000	WV Minerals, Inc.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	788/196 33/110		0%
7	13-0008-0012-0000	David Alonzo Corner Estate	ALL Resources, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	677/658 21/425 33/110		0%

8	13-0009-0006-0000	Richard A. Ritz, single	Chesapeake Appalachia, LLC	12.50%	684/331	33/110	0%
9	13-0009-0008-0000	Ivan R. Dean and Eleanor M. Dean, Irrevocable Trust; and Ivan R. Dean and Eleanor M. Dean, individually as husband and wife	Chesapeake Appalachia, LLC	12.50%	688/556	33/110	0%
10	13-0009-0009-0000	Mark C. Edison and Lois Ann Edison, husband and wife	Chesapeake Appalachia, LLC	18.00%	678/508	33/110	0%
11	13-0009-0032-0000	Grant Thomas Elias and Rhonda Renae Elias, husband and wife	SWN Production Company, LLC	18.00%	1151/92		0%
12	13-0009-0030-0000	Brian B. Bertram and Addie L. Bertram, husband and wife	Chesapeake Appalachia, LLC	12.50%	682/58	33/110	0%
13	13-0009-0029-0002	Mary L. Huck, a widow	Chesapeake Appalachia, LLC	12.50%	684/193	33/110	0%
14	13-0009-0029-0005	Scott Edward Kelch and Susan Marie Kelch, husband and wife	Chesapeake Appalachia, LLC	18.75%	701/94	33/110	0%
15	13-0014-0007-0000	Harrison F. Chambers and Dorothy M. Chambers, husband and wife	Chesapeake Appalachia, LLC	12.50%	688/493	33/110	0%
16	13-0014-0010-0000	Leland L. McWhorter and Deborah J. McWhorter, his wife	TriEnergy Holdings, LLC	18.00%	717/408	24/430	0%
17	13-0014-0011-0000	Andrew Briggs and Marcine Briggs, his wife	NP&E, LLC	18.75%	756/332	30/532	0%
18	13-0014-0028-0000	Avin J. Demmon and Anna L. Demmon, his wife	TriEnergy Holdings, LLC	18.00%	712/581	24/430	0%
19	13-0014-0029-0005	Tony J. Lemmon and Linn E. Lemmon, husband and wife	Chesapeake Appalachia, LLC	12.50%	692/162	33/110	0%
20	13-0014-0029-0008	Virginia Ann Butler, a widow	TriEnergy Holdings, LLC	18.75%	699/367	24/180	0%
21	13-0014-0038-0001	Charles S. Foster and Brenda K. Foster, husband and wife	Chesapeake Appalachia, LLC	18.75%	700/291	33/110	0%
22	14-0005-0026-0000	Royalty Owner (subject to unitization filing dated May 19, 2023)	n/a	n/a	n/a		100%
23	14-0005-0026-0001	Royalty Owner (subject to unitization filing dated May 19, 2023)	n/a	n/a	n/a		100%
24	14-0005-0026-0002	Royalty Owner (subject to unitization filing dated May 19, 2023)	n/a	n/a	n/a		100%
25	14-0005-0028-0000	Kay F. Hill and Beverly K. Hill, his wife; and Kathleen T. Hill, a widow	NP&E, LLC	18.75%	698/154	47/1	0%
26	15-0002-0018-0002	Royalty Owner (subject to unitization filing dated May 19, 2023)	n/a	n/a	n/a		100%
27	14-0005-0030-0000	Kay F. Hill and Beverly K. Hill, his wife	NP&E, LLC	18.75%	698/174	30/532	0%



4705102500

EXHIBIT "A"  
 Attached to and made a part of the State of West Virginia Oil and Gas Form, WV 6A-1, by SWN Production Company, LLC, as Operator  
 David Reinbeau MSH 6H  
 Marshall County, West Virginia

28	15-0007-0002-0000	JAGA INC	NP&R LLC Chevron U.S.A. Inc. EOT Aurora LLC SWN Production Company, LLC	18.75%	696/122 756/332 47/1 1158/291	0%
29	15-0007-0002-0004	R. Craig Miller and Donita D. Miller, his wife	Fossil Creek Ohio, LLC Gulfport Energy Corporation American Petroleum Partners Operating, LLC Chevron U.S.A. Inc. EOT Aurora LLC SWN Production Company, LLC	18.00%	828/331 34/410 36/588 40/267 47/1 51/256	0%
30	15-0007-0001-0003	Royalty Owner (subject to unitization filing dated May 19, 2023)	n/a	n/a	n/a	50%
		Barry D. Crow and Joyce E. Crow, his wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	695/28 33/110	
		Matthew D. Menard and Crista Menard, his wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	695/31 33/110	

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

Horizontal well unit utilization - Subject to unitization filing with the West Virginia Oil and Gas Conservation Commission.

06/23/2023

May 17, 2023

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 6H in Marshall County, West Virginia, Drilling under Hanlin Hill Road, Crows Lane, Pine Hill Road, and Cherokee Lane.

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 Hanlin Hill Road, Crows Lane, Pine Hill Road, and Cherokee Lane. 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,

*Bailey Brougher*

Bailey Brougher  
Staff Landman  
SWN Production Company, LLC

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06/23/2023

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

Date of Notice Certification: 5/22

API No. 47- 009 -

Operator's Well No. David Reinbeau MSH 6H

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>528,890.155</u>
County: <u>051- Marshall</u>		Northing: <u>4,427,005.250</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>Hollidays 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.

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

**Required Attachments:**

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

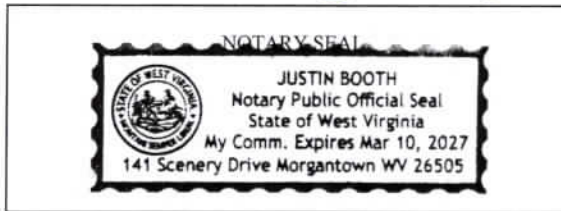
06/23/2023

**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 2<sup>nd</sup> day of April, 2023.

*Justin Booth* Notary Public

My Commission Expires 3/10/2027

**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).

06/23/2023

WW-6A  
(9-13)

4705102500  
API NO. 47- 009 -  
OPERATOR WELL NO. David Reinbeau MSH 6H  
Well Pad Name: David Reinbeau MSH

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

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

**Date of Notice:** 5/22 **Date Permit Application Filed:** 5/22

**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 & Shelly 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

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

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

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

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

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

\*Please attach additional forms if necessary

06/23/2023

**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 the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

06/23/2023

WW-6A  
(8-13)

4705102500  
API NO. 47-000  
OPERATOR WELL NO. David Reinbeau MSH 6H  
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

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.

WW-6A  
(8-13)

4705102500  
API NO. 47-009  
OPERATOR WELL NO. David Reinbeau MSH 6H  
Well Pad Name: David Reinbeau MSH

**Notice is hereby given by:**

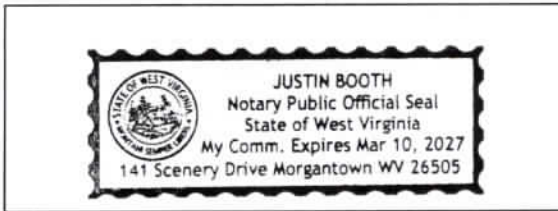
Well Operator: SWN Production Co., LLC  
Telephone: 304-884-1610  
Email: Brittany\_Woody@swn.com

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



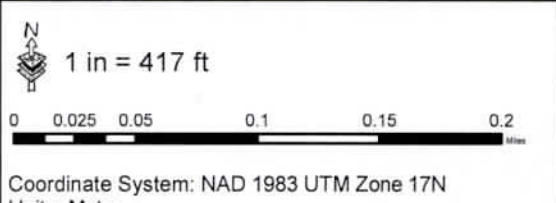
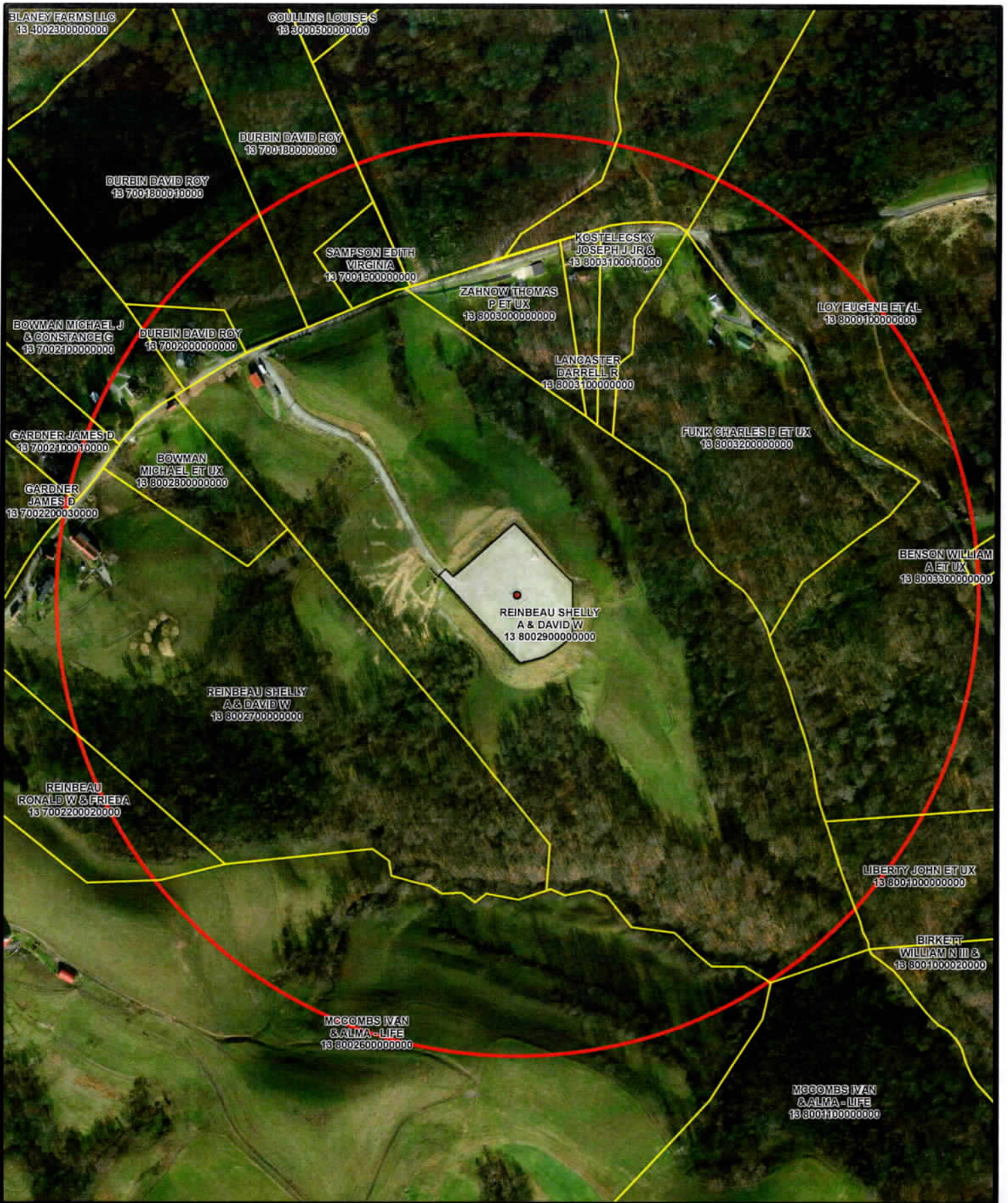
Subscribed and sworn before me this 12<sup>th</sup> day of April, 2023.

*Justin Booth* Notary Public

My Commission Expires 3/10/2027

06/23/2023

www.ck12.org  
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Spring	Parcel
Water Well	1500' Buffer
Pond	Pad

Coordinates: 39 992746 -80 661606

Water Purveyor Map  
Well Pad: David Reinbeau  
County: MSH

**SWW** *R+V+*  
Southwestern Energy®  
06/23/2023

Date: 2/18/2022 | Author: willish

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:** 1/26/2022      **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

\*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).

**Notice is hereby given by:**

Well Operator: SWN PRODUCTION COMPANY, LLC

Telephone: 304-884-1610

Email: Brittany\_Woody@swn.com

Address: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

Facsimile: 304-884-1690

**Oil and Gas Privacy Notice:**

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

06/23/2023



WW-6A5  
(1/12)

Operator Well No. David Reinbeau MSH 0H

**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:** 04/13/2023 **Date Permit Application Filed:** 5/1/23

**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: 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(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>528,890.155</u>
County:	<u>Marshall</u>	UTM NAD 83 Northing:	<u>4,427,005.250</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/detail.aspx](http://www.dep.wv.gov/oil-and-gas/pages/detail.aspx).

Well Operator: SWN Production Company, LLC  
Telephone: 304-884-1675  
Email: Justin\_Booth@swn.com

Address: 1300 Fort Pierpont Drive, Suite 201  
Morgantown, WV 26508  
Facsimile: \_\_\_\_\_

**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).

06/23/2023



4705102500

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

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

Gregory L. Bailey, P.E.  
Interim  
State Highway Engineer

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

May 18, 2023

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 6H 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 March 6, 2023. 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 Operations Engineer  
Central Office O&G Coordinator

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



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 Acetophenone, thiourea, formaldehyde polymer	Proprietary 68527-49-1
AP ONE (U.S. Well Services)	Breaker	Ammonium persulfate	7727-54-0
Bactron K-139 (Champion Technologies)	Biocide	Glutaraldehyde	111-30-8
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides Ethanol	68424-85-1 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
EC6485A (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
		Methanol	67-56-1
Econo-CI200 (SWN Well Services)	Corrosion Inhibitor	Oxyalkylated fatty acid	68951-67-7
		Fatty acids	61790-12-3
		Modified thiourea polymer	68527-49-1
		Water	7732-18-5
		Hydrochloric acid	7647-01-0
		Potassium acetate	127-08-2
		Formaldehyde	50-00-0
Ecopol-FEAC (SWN Well Services)	Iron Control	Acetic Acid	64-19-7
		Citric Acid	77-92-9
		Water	7732-18-5
FDP-S1176-15 (Halliburton)	Friction Reducer	Polyacrylate	Proprietary
		Hydrotreated light petroleum distillate	64742-47-8
FLOJET DR900 LPP (SWN Well Services)	Friction Reducer	Distillates (petroleum) hydrotreated light	64674-47-8
		Ethylene Glycol	107-21-1
		Alcohols, C12-16, Exoxylated propoxylated	68213-24-1
		Fatty Alcohols ethoxylated	Proprietary
		Water	7732-18-5
FLOJET DRP 1130X (SWN Well Services)	Friction Reducer	Proprietary	Proprietary
FR-76 (Halliburton)	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
		Inorganic Salt	Proprietary
GYPTRON T-390 (Champion Technologies)	Scale Inhibitor	Methanol	67-56-1
		Nonylphenol Ethoxylate	Proprietary
HAI-150E (Halliburton)	Corrosion Inhibitor	No hazardous substance	N/A
HCL (SWN Well Services)	Hydrochloric Acid	Hydrochloric Acid	7647-01-0
		Water	7732-18-5
LP-65 MC (Halliburton)	Scale Inhibitor	Organic phosphonate	Proprietary
		Ammonium Chloride	12125-02-9
OPTI-FLEX (U.S. Well Services)	Viscosifying Agent	Distillates, petroleum, hydrotreated light	64742-47-8
Plexslick 930	Friction Reducer	Copolymer of 2-propenamide	Proprietary
		Hydrotreated Distillate	64742-47-8
		Sodium Chloride	7647-14-5
		Alcohols, C12-16, Exoxylated	68551-12-2
		Oleic Acid Diethanolamide	93-83-4
		Ammonium Chloride	12125-02-9
Plexslick 953	Friction Reducer	Petroleum Distillate	64742-47-8
		Sodium Chloride	7647-14-5
		Ammonium Chloride	12125-02-9
		N,N-bis (2-hydroxyethyl) oleamide	93-83-4
Plexslick 957	Friction Reducer	Petroleum Distillate	64742-47-8
		Ammonium Chloride	12125-02-9
		Oleic Acid Diethanolamide	93-83-4
		Alcohols, C12-16, Exoxylated	68551-12-2
		Water	7732-15-5
Plexslick V996	no data available	Copolymer of 2-Propeenamide	*****
		Distillates (petroleum), hydrotreated light	64742-47-8
		Alcohol Ethoxylate	*****
		Surfactant	*****
WFRA-2000 (U.S. Well Services)	Anionic Friction Reducer	Hydrotreated light distillate (petroleum)	64742-47-8
		Propenoic acid, polymer with propenamide	9003-06-9
Plexaid 655 NM	Scale inhibitor	Diethylenetriamine penta (methylene phosphonic acid)	15827-30-8
Plexslick 922	no data available	Copolymer of 2-propenamide	69418-26-4
		Distillates (petroleum), hydrotreated light	64742-47-8
		Ammonium chloride ((NH4)Cl)	12125-02-9
		Oleic Acid Diethanolamide	93-83-4
		Phosphonium, tetrakis (hydroxymethyl), Sulfate	55566-30-8
Tolcide 4Frac	Mixture	Quaternary ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
Tolcide PSS0A	Biocidal product	Ethanol	64-17-5
		Tetrakis (hydroxymethyl) phosphonium sulphate	55566-30-8
		Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups	397256-50-7
LD-2950	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
		Ethoxylated alcohol	Proprietary
		Poly (oxy-1,2-ethanediyl) alpha.-tridecyl.-omega.-hydroxy-, branched	69011-36-5
Legend LD-7750W	Scale Control	Methanol	67-56-1
		Phosphonic Acid Salt	Proprietary
MC MX 8-4743	Specialty Product	Sodium Nitrate	7631-99-4
Ferriplex 80	Iron Control	Sodium erythorbate	6381-77-7
Plexaid 655 WG	Scale Inhibitor	Glycerine	67-56-1
		Water	7732-18-5
		Organic Phosphonic Acid Salts	15827-30-8

OPERATOR: SWN Production Co., LLC

WELL NO: David Reinbeau MSH 6H

PAD NAME: David Reinbeau MSH

REVIEWED BY: \_\_\_\_\_

SIGNATURE: *Brittany Naddy*

### WELL RESTRICTIONS CHECKLIST

#### HORIZONTAL 6A WELL

*\*Pad Built 4/17/23*

#### Well Restrictions

- At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR
  - DEP Waiver and Permit Conditions
- At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR
  - DEP Waiver and Permit Conditions
- At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR
  - DEP Waiver and Permit Conditions
- At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR
  - Surface Owner Waiver and Recorded with County Clerk, OR
  - DEP Variance and Permit Conditions
- At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR
  - Surface Owner Waiver and Recorded with County Clerk, OR
  - DEP Variance and Permit Conditions
- At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR
  - Surface Owner Waiver and Recorded with County Clerk, OR
  - DEP Variance and Permit Conditions

