



west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Thursday, November 3, 2022
WELL WORK PERMIT
Horizontal 6A / New Drill

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

Re: Permit approval for DALLAS HALL OHI 406H
47-069-00354-00-00

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

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

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

A blue ink signature of James A. Martin, Chief, is written over the text of his name and title.

James A. Martin
Chief

Operator's Well Number: DALLAS HALL OHI 406H
Farm Name: AGNES L HALL
U.S. WELL NUMBER: 47-069-00354-00-00
Horizontal 6A New Drill
Date Issued: 11/3/2022

Promoting a healthy environment.

11/04/2022

PERMIT CONDITIONS 4706900354

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

CONDITIONS

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

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

1) Well Operator: SWN Production Co., LLC 494512924 069-Ohio 3-Liberty 247- Bethany
Operator ID County District Quadrangle

2) Operator's Well Number: Dallas Hall OHI 406H Well Pad Name: Dallas Hall OHI

3) Farm Name/Surface Owner: Agnes L. Hall Public Road Access: G C and P Road

4) Elevation, current ground: 1274' Elevation, proposed post-construction: 1274'

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

(b) If Gas Shallow Deep _____
Horizontal *MDK 4/21/2022*

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 South, Target Top TVD- 6254', Target Base TVD- 6313', Anticipated Thickness- 46', Associated Pressure- 4103

8) Proposed Total Vertical Depth: 6291'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 18069'

11) Proposed Horizontal Leg Length: 10,231.5'

12) Approximate Fresh Water Strata Depths: 410'

13) Method to Determine Fresh Water Depths: Nearby water well

14) Approximate Saltwater Depths: 586' salinity profile analysis

15) Approximate Coal Seam Depths: 767'

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

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

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(a) If Yes, provide Mine Info: Name: _____ OCT 03 2022
Depth: _____
Seam: _____ WV Department of
Owner: _____ Environmental Protection

WW-6B
(04/15)

API NO. 47-00906900354
 OPERATOR WELL NO. Dallas Hall OHI 406H
 Well Pad Name: Dallas Hall OHI

18) **CASING AND TUBING PROGRAM**

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	126'	126'	CTS
Fresh Water	13 3/8"	New	H-40	48#	520'	520'	503 sx/CTS
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	1920'	1920'	829 sx/CTS
Production	5 1/2"	New	P-110 HP	23#	18069'	18069'	lead 3410sx/Tail 1860sx/ 100' inside hole
Tubing							
Liners							

MDK 4/21/22

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	30"	0.25	2120	81	Class A	1.20/30% Excess
Fresh Water	13 3/8"	17.5"	0.380	2730	633	Class A	1.20/30% Excess
Coal	See	Surface	Casing				
Intermediate	9 5/8"	12 1/4"	0.395	3950	1768	Class A	1.19/40% Excess
Production	5 1/2"	8 3/4"-8 1/2"	0.361	14360	10500	Class A	1.19/5% Excess
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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WW-6B
(10/14)

4706900354
API NO. 47-009 -
OPERATOR WELL NO. Dallas Hall OHI 406H
Well Pad Name: Dallas Hall OHI

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 unites, 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): 22.60

22) Area to be disturbed for well pad only, less access road (acres): 8.54

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.

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*Note: Attach additional sheets as needed.

4706900354


CEMENT ADDITIVES						
INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTier PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Number
SURFACE (FRESHWATER) <small>up to 3%</small>	XXXXX	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	S001	A-7P	0110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL PROTECTION <small>up to 3%</small>	XXXXX	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	XXXXX	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	XXXXX	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	CemNet	XXXXX	XXXXX	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	XXXXX	XXXXX	CJ111	ACCELERATOR	SODIUM CHLORIDE	7440-23-5
	XXXXX	55-IIW	0880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4
	DO47	FP 28L	XXXXX	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	XXXXX	XXXXX	OX157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
	XXXXX	XXXXX	CJ540	HP FLUID LOSS ADDITIVE	ALIPHATICAMIDE POLYMER	PROPRIETARY
	0255	XXXXX	XXXXX	MED TEMP FLUID LOSS ADDITIVE	POLYACRILIC POLYMER	PROPRIETARY
	XXXXX	XXXXX	CJ213	RETARDER	CHRYSTALLINE SILICA	14808-60-7
	XXXXX	FL-66	0501	LOW TEMP FLUID LOSS ADD	POWDERED POLYSACCHARIDE	PROPRIETARY
	XXXXX	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301	XXXXX	VISCO FIER/ANTI-SETTLING AGENT	REFINED POLYMER/CHRYSTALLINE SILICA	PROPRIETARY
	D198	R-3	XXXXX	CEMENT RETARDER	LIGNIN	8068-51-6
	SUGAR	SUGAR	CJ795	CEMENT RETARDER	SUCROSE	57-50-1
	D065	XXXXX	XXXXX	DISPERSANT	SODIUM POLYNAPHTHALENE SULFONATE	8068-51-6
D800	XXXXX	XXXXX	CEMENT RETARDER (Mid-Temperature)	SODIUM LIGNOSULFONATE	8061-51-6	

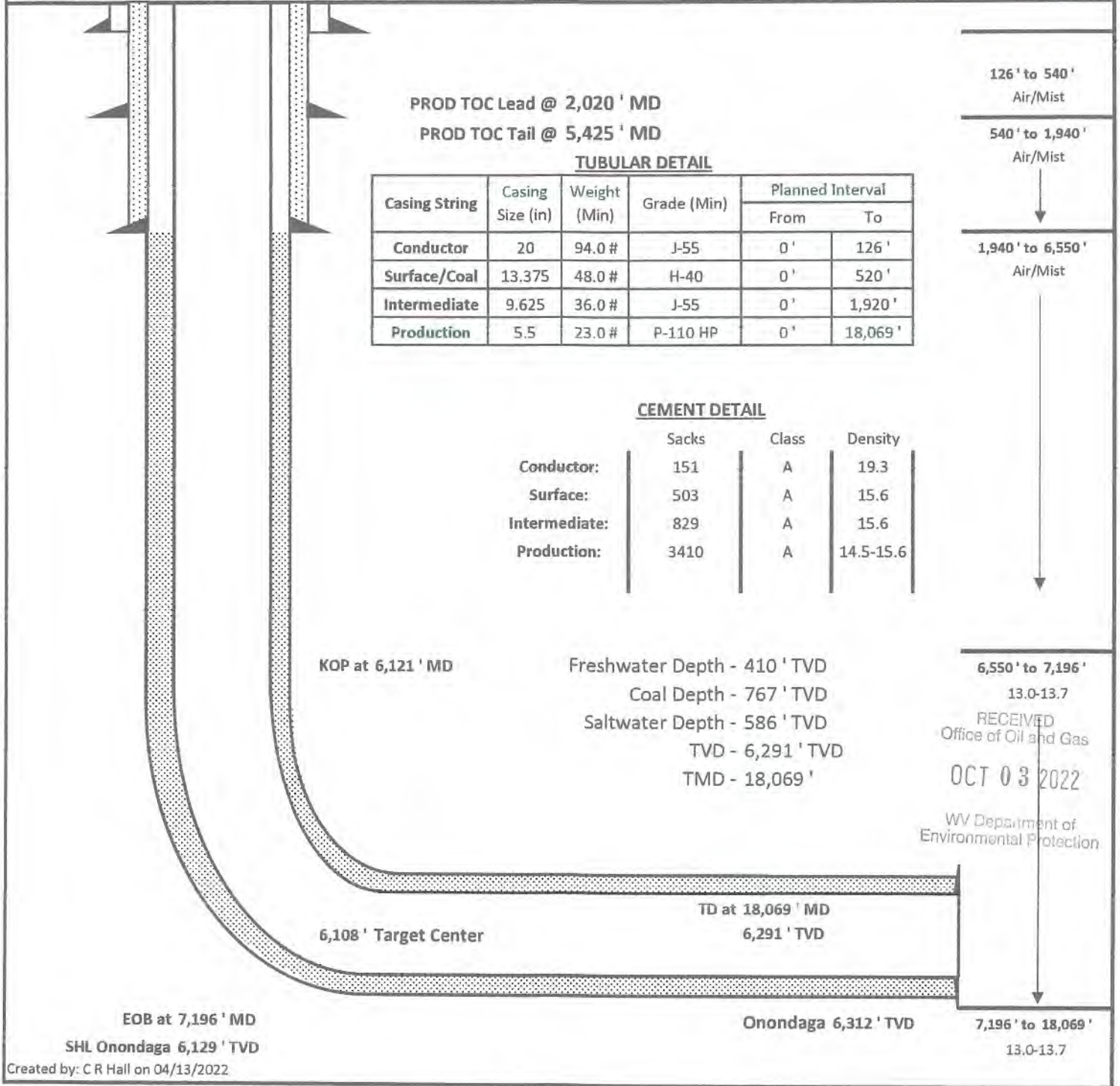
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11/04/2022

Southwestern Energy Company			Proposed Drilling Program		
Well:	DALLAS HALL OHI 406		Re-entry Rig:	TBD	
Field:	PANHANDLE FIELD WET		Prospect:	Marcellus Shale	
County:	OHIO		State:	WV	
SHL:	40.1333 Latitude	-80.6130 Longitude			
BHL:	40.1038 Latitude	-80.6086 Longitude			
KB Elev:	1,300 ft MSL	KB: 199 ft AGL	GL Elev:	1,101 ft MSL	



Created by: C R Hall on 04/13/2022

Handwritten signature/initials

Dallas Hall OHI 406H AOR

API	Operator	Status	Latitude	Longitude	Vertical TD	Producing Formation
47-069-00239	SWN Production Company, LLC	Active	40.079464	-80.598039	6231'	Marcellus

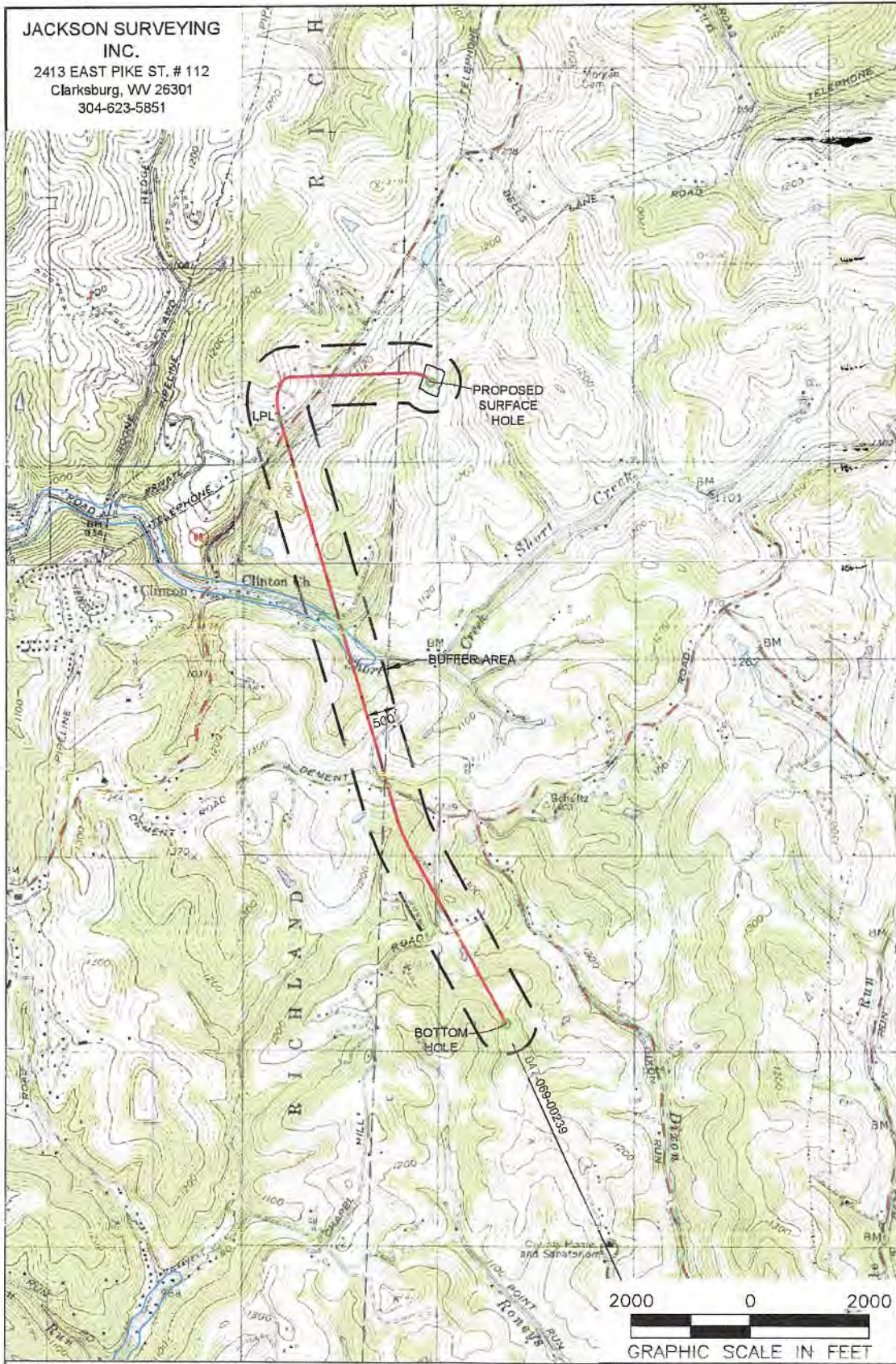
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JACKSON SURVEYING
 INC.
 2413 EAST PIKE ST. # 112
 Clarksburg, WV 26301
 304-623-5851



NOTES ON SURVEY

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

LEGEND:

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- EXISTING / PRODUCING WELLHEAD
- LPL = LANDING POINT LOCATION
- FLOOD PLAN
- ACCESS ROAD
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- LEASE BOUNDARY
- PROPOSED PATH

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC		WELL (FARM) NAME: DALLAS HALL OHI		WELL # 406H	SERIAL #
ADDRESS: 1300 FORT PIERPONT RD, SUITE 200 MORGANTOWN, WV 26508		COUNTY - CODE OHIO - 069	DISTRICT: LIBERTY		
SURFACE OWNER: AGNES L. HALL		USGS 7 1/2 QUADRANGLE MAP NAME BETHANY, WV		API # 047-069-	

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WW-9
(4/16)

API Number 47 - 069 - 4706900354
Operator's Well No. Dallas Hall OHI 406H

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) Short Run- Ohio River Quadrangle Bethany

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,

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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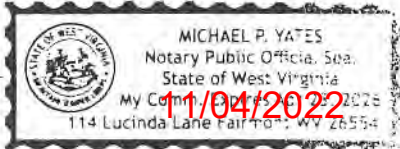
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Subscribed and sworn before me this 13th day of April, 20 22

Michael P. Yates Notary Public

My commission expires April 23, 2024

WV Department of Environmental Protection



SWN Production Co., LLC

Proposed Revegetation Treatment: Acres Disturbed 22.60 Prevegetation pH _____

Lime as determined by pH test min.2 Tons/acre or to correct to pH 8.54

Fertilizer type 10-20-20

Fertilizer amount 600/500 lbs/acre

Mulch Hay/Straw Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

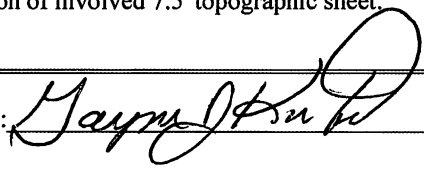
Seed Type lbs/acre

Attachment 3C

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: 

Comments: _____

Title: Oil & Gas Inspector

Date: 4/21/2022

Field Reviewed? Yes No

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Attachment 3A

CLOSED LOOP SYSTEM

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

The closed loop system consists of 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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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 processed to achieve landfill requirements before hauling to approved landfills. The fluids 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 centrifuges used for shale 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 all fluids by flocculation and additional mechanical separation, associated open top tanks for processing fluids and capturing solids for disposal, and transfer pumps to move fluids through the process. There is also a solvent 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 intervals or liquids interval.

AIR DRILLING INTERVALS

During air drilling operations, flow from the rig will pass down the flowing to the shale gas separator where gas and liquids/solids are separated. Gas is sent to the flare or burner tank and is flared at the flare stack. Solids and liquids pass across a shaker system to separate solids from liquids. Solids pass into the cuttings tanks where they are captured for drying and haul off 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 centrifuges to further separate liquids and solids. Solids are then hauled into the cuttings tank for drying and haul off. Liquids are further processed to remove additional low gravity solids before being reused or transferred to onsite storage.

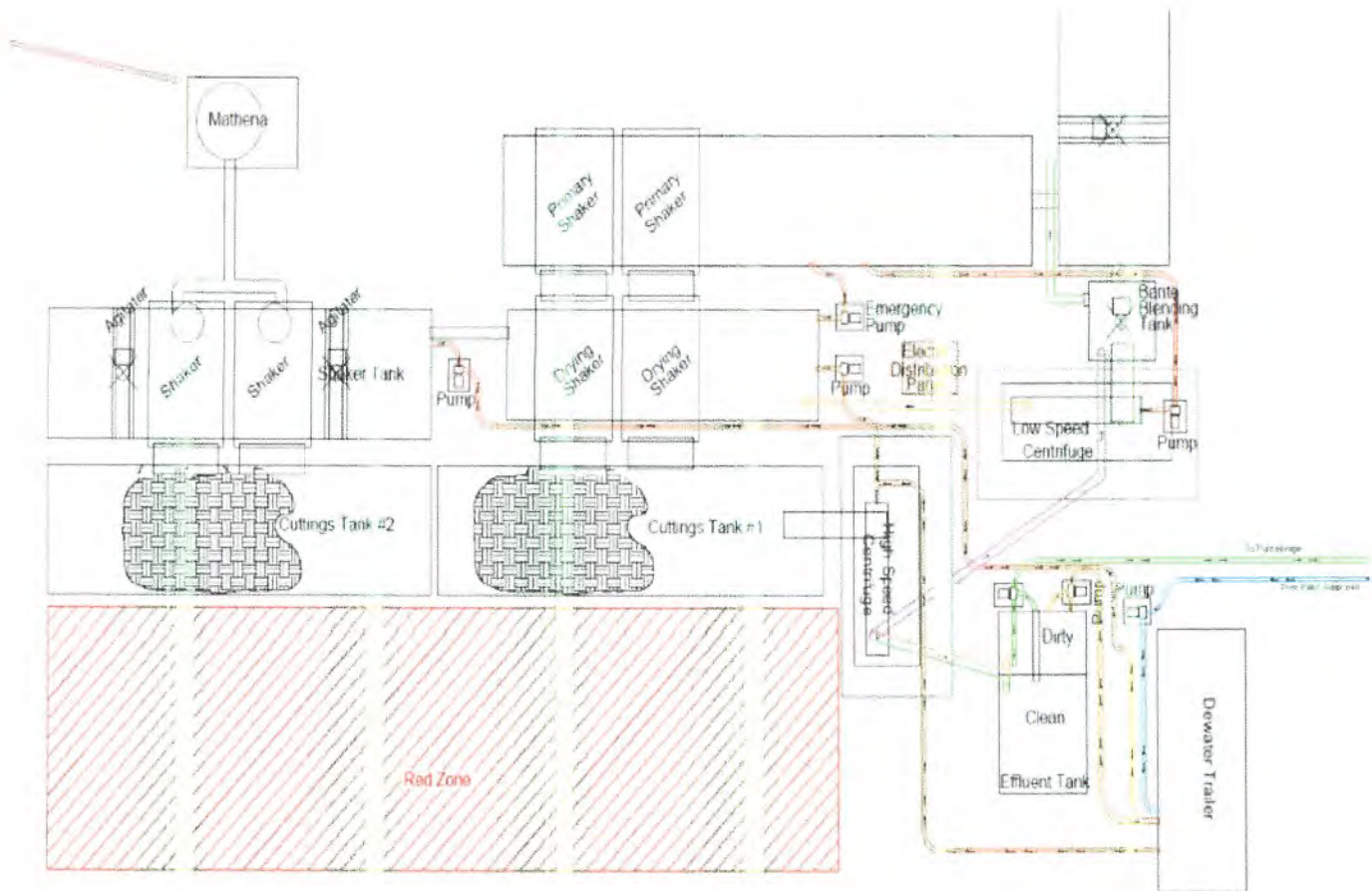
LIQUIDS DRILLING (FRESHWATER BRINE, SOBM)

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 cuttings are recovered out the tank and processed through the low gravity (high speed) and shale recovery centrifuges (low speed) to further remove low gravity solids and to recover brine for reuse in the mud systems.

Solids Control Layout



EXAMPLE SCHEMATIC FOR CLOSED LOOP SOLIDS CONTROL SYSTEM



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Attachment 3B
Drilling Mediums

Surface/Coal(if present)/Freshwater Intervals:

Air

Freshwater (if needed based on conditions)

Intermediate/Coal (if present):

Air

Production Hole:

Air

Synthetic Oil (Base Fluid for mud system)

Barite

Calcium Chloride

Lime

Organophilic Bentonite

Primary and Secondary Emulsifiers

Gilsonite

Calcium Carbonate

Friction Reducers

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WVD Seeding Specification

R⁺ → V⁺
A

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

NON-ORGANIC PROPERTIES	
Seed Mixture: ROW Mix	SWN Supplied
Orchardgrass	40%
Timothy	15%
Annual Ryegrass	15%
Brown Top Millet	5%
Red Top	5%
Medium Red Clover	5%
White Clover	5%
Birdsfoot Trefoil	5%
Rough Bluegrass	5%
All legumes are inoculated at 5x normal rate	
Apply @ 100lbs per acre April 16th- Oct. 14th Apply @ 200lbs per acre Oct. 15th- April 15th PLUS 50lbs per acre of Winter Wheat	

SOIL AMENDMENTS	
10-20-20 Fertilizer	*Apply @ 500lbs per Acre
Pelletized Lime	Apply @ 2 Tons per Acre
*unless otherwise dictated by soil test results	

Seeding Calculation Information:

1452' of 30' ROW/LOD is One Acre
 871' of 50' ROW/LOD is One Acre
 622' of 70' ROW/LOD is One Acre

Synopsis:

Every 622 linear feet in a 70' ROW/LOD, you should be using (2) 50lb bags of seed, (4) 50lb bags of fertilizer and (80) 50lb bags of Lime (2x seed in winter months + 50lb Winter Wheat/ac).

Special Considerations:

Landowner Special Considerations including CREP program participants require additional guidance that is not given here. Discuss these requirements with SWN supervision at the beginning of the project to allow time for special seed delivery.

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

WETLANDS (delineated as jurisdictional wetlands)	
Seed Mixture: Wetland Mix	SWN Supplied
VA Wild Ryegrass	20%
Annual Ryegrass	20%
Fowl Bluegrass	20%
Cosmos 'Sensation'	10%
Redtop	5%
Golden Tickseed	5%
Maryland Senna	5%
Showy Tickseed	5%
Fox Sedge	2.5%
Soft Rush	2.5%
Woolgrass	2.5%
Swamp Verbena	2.5%
Apply @ 25lbs per acre April 16th- Oct. 14th Apply @ 50lbs per acre Oct. 15th- April 15th	
NO FERTILIZER OR LIME INSIDE WETLAND LIMITS	

RECEIVED
Office of Oil and Gas

OCT 03 2022

Wild Department of
Environmental Protection

MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN



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

API NO. 47-XXX-XXXXX
WELL NAME: Dallas Hall OHI 406H
Bethany QUAD
Liberty DISTRICT
OHIO COUNTY, WEST VIRGINIA

Submitted by:

Name: Brittany Woody

Date: 4/11/2022

Brittany Woody

Title: Senior Regulatory Analyst

SWN Production Co., LLC

Approved by:

Name: *Raymond J. King*

Date: 4/21/2022

Title: Inspector

Approved by:

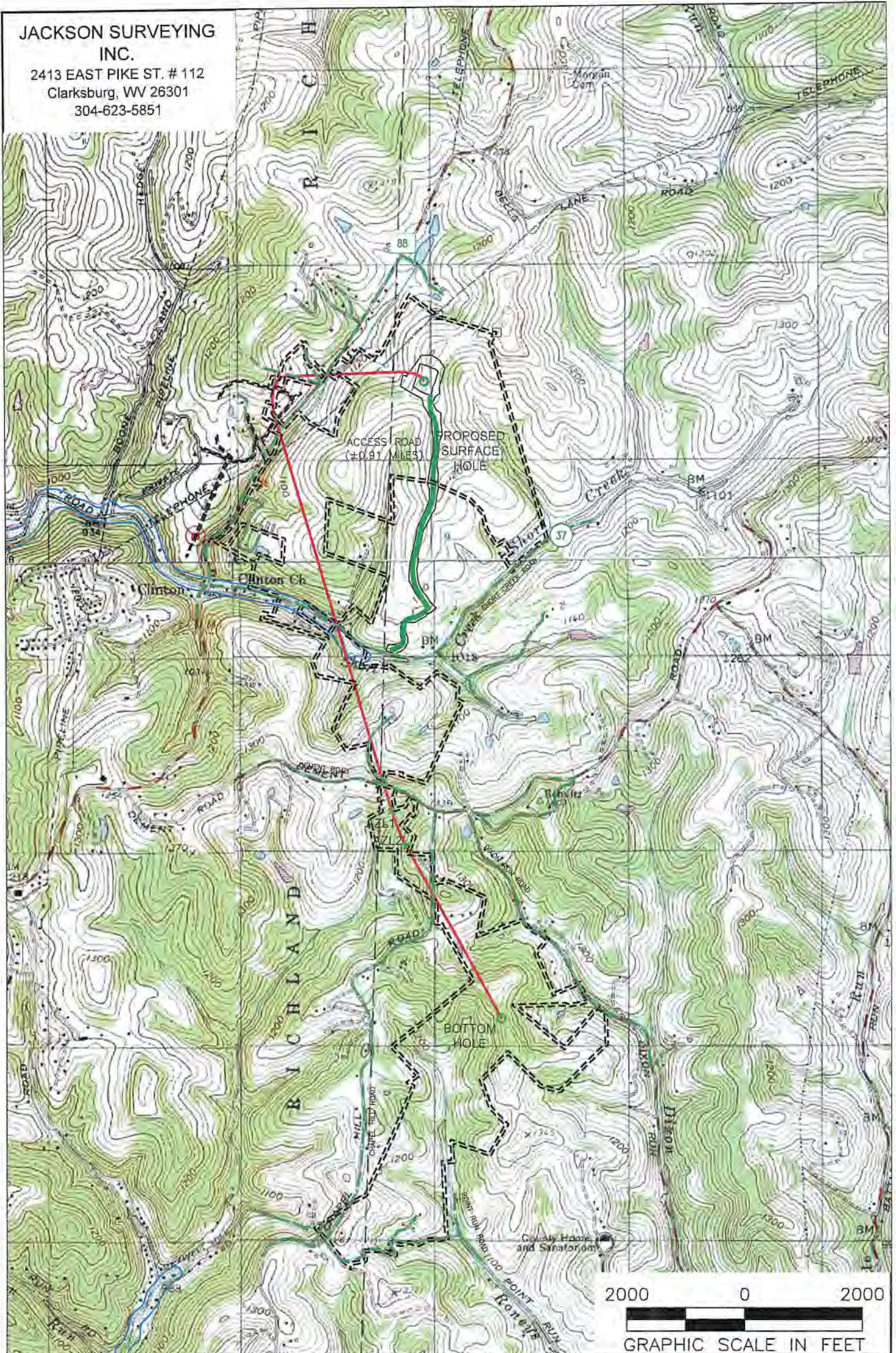
Name: _____

Date: _____

Title: _____

RECEIVED
Office of Oil and Gas
OCT 03 2022
WV Department of
Environmental Protection

**JACKSON SURVEYING
INC.**
2413 EAST PIKE ST. # 112
Clarksburg, WV 26301
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
- ACCESS ROAD
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- LEASE BOUNDARY
- PROPOSED PATH

11/04/2022

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: DALLAS HALL OHI	WELL # 406H	SERIAL #
ADDRESS: 1300 FORT PIERPONT RD, SUITE 200 MORGANTOWN, WV 26508	COUNTY - CODE OHIO - 069	DISTRICT; LIBERTY	
SURFACE OWNER: AGNES L. HALL	USGS 7 1/2 QUADRANGLE MAP NAME BETHANY, WV	API # 047-069-	

Latitude: 40°10'00" SURFACE HOLE 8,289'

Latitude: 40°07'30" BOTTOM HOLE 7,069'

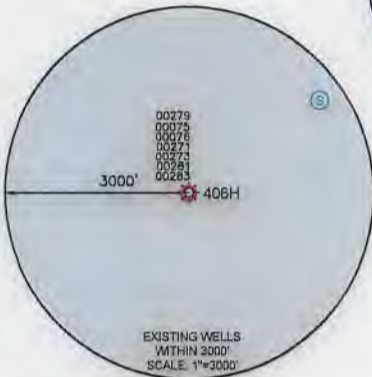
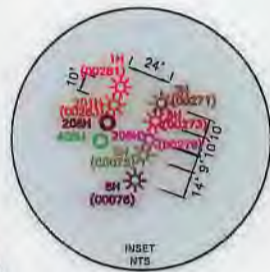
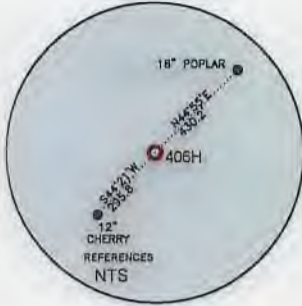
JACKSON SURVEYING INC.

2413 EAST PIKE ST. # 112
Clarksburg, WV 26301
304-623-5851

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

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,442,625.110 EASTING: 532,970.569
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,442,440.645 EASTING: 532,198.235
AZIMUTH POINT LOCATION-1 (AZL1):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,440,420.015 EASTING: 532,791.770
AZIMUTH POINT LOCATION-2 (AZL2):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,440,241.734 EASTING: 532,866.450
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,439,356.871 EASTING: 533,358.700

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 12°40'46" E	1125.59'	SHL TO LANDMARK	FD. 5/8" REBAR
L2	N 56°36'41" E	1486.00'	SHL TO LANDMARK	3/8" BLACK CHERRY
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	S 76°34'01" W	2605.17'	3218.50'	SHL TO LP
L4	S 22°43'41" E	634.15'	635.43'	AZL1 TO AZL2



Longitude: 80°35'00"
Longitude: 80°35'00"

Longitude: 80°35'00"
Longitude: 80°35'00"

WELL RESTRICTIONS

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

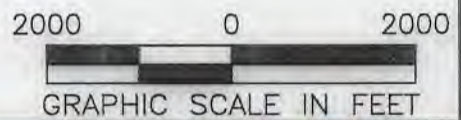
NOTES ON SURVEY

- 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.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

1. 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



COMPANY: **SWN** Production Company, LLC

(+) 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 ELEVATION: GRADE GPS (NAVD 88, US FT)

DALLAS HALL OHI

OPERATOR'S WELL #: 406H

API WELL #: 47 069 00354
STATE COUNTY PERMIT

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

WATERSHED: SHORT RUN-OHIO RIVER (HUC-10) ELEVATION: 1274.3'

DISTRICT: LIBERTY COUNTY: OHIO QUADRANGLE: BETHANY, WV

SURFACE OWNER: AGNES L. HALL ACREAGE: ±162.58

OIL & GAS ROYALTY OWNER: AGNES L. HALL ACREAGE: ±162.58

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: 6,291 TVD 11/04/2022

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITTANY WOODY

ADDRESS: 1300 FORT PIERPONT RD. SUITE 200 ADDRESS: 1300 FORT PIERPONT RD. SUITE 200

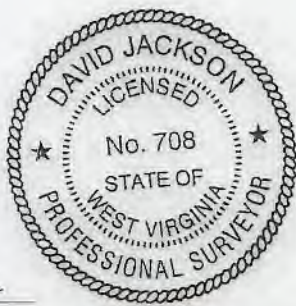
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND:	— SURVEYED BOUNDARY	— DRILLING UNIT	— DATE: 08-09-2022
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	— LEASE BOUNDARY	— DRAWN BY: N. MANO	— SCALE: 1" = 2000'
⊙ EXISTING / PRODUCING WELLHEAD	— PROPOSED PATH	— DRAWING NO:	— WELL LOCATION PLAT
LPL* LANDING POINT LOCATION			
⊙ EXISTING WATER WELL			
⊙ EXISTING SPRING			

**JACKSON SURVEYING
INC.**

2413 EAST PIKE ST. # 112
Clarksburg, WV 26301
304-623-5851

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



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

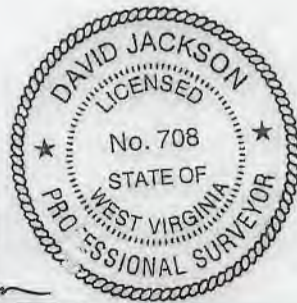
REVISIONS:	COMPANY:		11/04/2022	
	OPERATOR'S	DALLAS HALL OHI	API NUMBER:	DATE: 08-09-2022
	WELL #:	406H	47-069-00354	DRAWN BY: N. MANO
	DISTRICT:	COUNTY:	STATE:	SCALE: N/A
	LIBERTY	OHIO	WV	DRAWING NO:
				WELL LOCATION PLAT 2

JACKSON SURVEYING
 INC.
 2413 EAST PIKE ST. # 112
 Clarksburg, WV 26301
 304-623-5851

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	WEAVER DAVID M & BETH R	3-L4-15
B	EVANS CATHERINE & DAVID	3-L4-13.1
C	CLUSER MARY HELEN; TR	3-L7-2
D	WHITAKER REVOCABLE FAMILY TRUST	3-L7-27
E	DICKERSON CYNTHIA ANN HALL	3-L7-1
F	HALL MICHAEL JAMES (2/3 INT) & DICKERSON CYNTHIA HALL (1/3)	3-L7-20
G	HALL MICHAEL JAMES (2/3 INT) & DICKERSON CYNTHIA HALL (1/3)	3-L7-21
H	MEALY MELISSA & FAUBER JENNA	4-R12-39
I	MCKENZIE RONALD M & DEBORAH	4-R12-39.1
J	CALDWELL JEFFREY WAYNE	4-R12-40.1
K	CALDWELL JEFFREY WAYNE	4-R12-40
L	RINEHART JAMES R JR	4-R12-41.3
M	RINEHART JAMES R JR	4-R12-41.1
N	LOUGH DONALD E & D A	4-R12-43
O	DENT SARA R & DAVID A	4-R12-45.22
P	DENT DAVID A & SARA R	4-R12-45.18
Q	THROCKMORTON SARA R DENT DAVID A	3-L7-51
R	WHITAKER REVOCABLE FAMILY TRUST	3-L7-27.3
S	WHITAKER REVOCABLE FAMILY TRUST	3-L7-27
T	WHITAKER REVOCABLE FAMILY TRUST	3-L7-26
U	KEREKES JAMES S & PAMELA SUE	3-L7-25
V	BUCH JAMES E & SAMANTHA H	3-L7-23
W	OTTE KAREN S	3-L7-22.5
X	NEWLAND SUZANNE M	3-L7-22.2
Y	DEMENT TRUST AUBER DARLENE TRUSTEE FOR	3-L7-22.4
Z	STIFEL EDWARD W III	3-L10-1
A2	SEABRIGHT JUNE M	3-L10-1.3
B2	SEABRIGHT JUNE M	3-L10-1.2
C2	BURKE STEPHEN R & RAINA J	3-L10-1.1
D2	WHITING CHARLES ROBERT II	3-L10-6
E2	CHAMBERS JASON A & AMBER D	3-L10-14
F2	CHAMBERS JASON A & AMBER D	3-L10-14.1
G2	GORBY MARK A & SARA	3-L10-14.2
H2	HOLLANDWORTH KIMBERLY J ET AL	3-L10-13
I2	COMER ALAN NATALIA OMELENCHENKO-COMER	3-L10-28.2
J2	ABRAHAM ZACHARY T & CATERINA M	3-L10-28.1
K2	CONNIFF JONI & ROBERT	3-L10-28.4
L2	MURPHY CHARLES W JR	3-L10-33
M2	MURPHY CHARLES WILLIAM	3-L10-10.6
N2	ROY RICHARD J JR & BETHELLEN	3-L10-31
O2	MURPHY MICHAEL E & EILEEN A	3-L10-32
P2	ALBRECHT LUTZ F & DORIS J-TOD	3-L10-28.5
Q2	STONE REBECCA	3-L10-29.1
R2	GILMORE UNDA	3-L10-29
S2	BYRUM CAROLINE LOUSTAU	3-L10-27.1
T2	LOUSTAU JEAN P & L P (RESV LF)BYRUM CAROLINE L	3-L10-27
U2	ABRAHAM THOMAS R & S O	3-L10-26
V2	BOARD OF COMM OHIO CO	3-L13-3.1
W2	WEIR ROBERT AND BRIDGET	3-L10-23.1
X2	MAXWELL JOSEPH E ANNA C MAXWELL REVOCABLE TRUST	3-L13-1.2
Y2	OGLEBAY FOUNDATION PROPS INC MAXWELL ANNA C REV TRUST	3-L13-1.1
Z2	LUCHETTI ROBERT R JR & TERESA	4-R18-29
A3	LUCHETTI ROBERT R SR - TOD	4-R15-28
B3	LUCHETTI ROBERT R SR - TOD	4-R15-28.4
C3	MILLER CALVIN F & B J	4-L10-25.1
D3	MILLER WILSON B	4-L10-25
E3	MILLER CALVIN F & BARBARA J	3-L10-25.5
F3	MATTERN KENNETH MARK MATTERN DANA ANN	3-L10-25.4



TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	HALL MICHAEL JAMES (2/3 INT) & DICKERSON CYNTHIA HALL (1/3) (S/R)	3-L7-19
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	HALL MICHAEL JAMES (2/3 INT) & DICKERSON CYNTHIA HALL (1/3) (S)	3-L7-21.1
3	STERN VIRGINIA S (S)	4-R128-1.1
4	RODRIGUEZ EUSEGIO ELVESTROM (S)	4-R128-1.2
5	WV DEPARTMENT OF TRANSPORTATION (S)	ROUTE 88
6	BAKER JOSEPH MICHAEL (S)	4-R12-36.5
7	HOWARD CHRISTOPHER J (S)	4-R12-36
8	HOTLOSZ FRANK A & C L B (S)	4-R128-10.6
9	STONEKING JAMES B & B J (S)	4-R128-10.5
10	STERN VIRGINIA S (S)	4-R128-10.1
11	STERN VIRGINIA S (S)	4-R128-10.8
12	KNIGHT JEFFREY M & KRISTEN M (S)	4-R12-19.26
13	BAKAITIS BRIAN S (S)	4-R12-19.24
14	FEDORKA FRANK TRUST 1993 (S)	4-R12-19
15	CALDWELL JEFFREY WAYNE (S)	4-R12-19.40
16	CARNEY MICHAEL B & KERRYN M (S)	4-R12-19.6
17	MULL RICHARD C & D (S)	4-R12-19.10
18	DANN JEREMIAH & JENNIFER (S)	4-R12-19.11
19	SPARKS KEVIN T & KELLY L (S)	4-R12-19.7
20	LAWTHER DENNIS E AND ANNA M(S)	4-R12-35
21	JELLEN ELIZABETH M (S)	4-R12-41
22	DNR PROPERTIES LLC (S)	4-R12-41.4
23	DNR PROPERTIES LLC (S)	4-R12-41.2
24	TAYLOR KATHLEEN E & KEVIN J (S)	4-R12-44
25	DENT SARA R & DAVID A (S)	4-R12-45.21
26	SMITH DALE II (S)	4-R12-45.10
27	THROCKMORTON SARA R DENT DAVID A (S)	4-R12-45.16
28	ROBINSON JACOB (S)	3-L7-22
29	PERRY MATTHEW T W & SHELLY L (S)	3-L7-22.8
30	BIPPUS CARL S (S)	3-L10-2
31	BIPPUS CARL S (S)	3-L10-1.7
32	SEABRIGHT JUNE M (S)	3-L10-1.6
33	BURKE STEPHEN R & RAINA J (S)	3-L10-15
34	JOSEPH BRIAN E (S)	3-L10-13.3
35	HAZLETT SUSAN H ET AL (S)	3-L10-13.2
36	IRWIN WM F & MJ (S)	3-L10-13.1
37	WALTERS GLEN L & R S (S)	3-L10-28
38	LUCHETTI ROBERT R SR - TOD (S)	3-L10-23
39	BYRUM CAROLINE LOUSTAU (S)	3-L10-27.3



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P.S. 708

David L Jackson

REVISIONS:	COMPANY:			DATE: 08-09-2022
		OPERATOR'S	DALLAS HALL OHI	API NUMBER:
		WELL #:	406H	47-069-00354
		DISTRICT:	LIBERTY	STATE:
			OHIO	WV
				DRAWN BY: N. MANO
				SCALE: N/A
				DRAWING NO:
				WELL LOCATION PLAT 3



11/04/2022

**JACKSON SURVEYING
INC.**

2413 EAST PIKE ST. # 112
Clarksburg, WV 26301
304-623-5851

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
G3	CAREY WAYNE L	4-L10-25.3
H3	WOOD MATHEW J & MARIA M	3-L10-25.7
I3	A D BAKER HOMES INC	3-L10-19.4
J3	LUCHETTI ROBERT R JR & TERESA	3-L10-19.5
K3	WHITE KRISTIAN E & NICOLE R	3-L10-23.2
L3	WHITE KRISTIAN E & NICOLE R	3-L10-19.3
M3	MACNEALY JON A AND KAREN L	3-L10-17.13
N3	PALMER LOUIS III	3-L10-17.16
O3	HUNTER LAURA L	3-L10-17
P3	MACNEALY JON A AND KAREN L	3-L10-17.5
Q3	CROW SHAWN & KIMBERLY A	3-L10-17.9
R3	KOLISCAK JENNA M JAFRATE CHRISTPHER A	3-L10-17.7
S3	KOLISCAK JENNA M JAFRATE CHRISTOPHER A	3-L10-17.8
T3	KOWCHECK DRAKE M & CAITLIN	4-R15-25.6
U3	REGAN CHRISTOPHER J & HILARY E	4-R15-23.4
V3	STIFEL EDWARD W III	4-R15-24
W3	FINNERAN LAWRENCE P & KATHLEEN	3-L10-1.5
X3	FINNERAN LAWRENCE P & KATHLEEN	3-L10-1.4
Y3	HIGH PHILIP D	3-L7-22.9
Z3	AMERICAN LEBANESE SYRIAN ASSOCIATED CHARITIES INC	3-L7-22.7
A4	BARBE BARRY A & CHRISTY	3-L7-22.6
B4	DECARLO VINCENT G & KRISTEN A	4-R12-45.3
C4	PHILLIPS TINA L & PADDEN EIZABETH A	4-R12-45.8
D4	CRAIG JEFFERY & LAUREN	4-R12-45.5
E4	TARR JOHN A IV	4-R12-45
F4	TENNANT JEFFREY AND ANGELA M	4-R12-45.7
G4	HENRY LORI J C/O HENRY'S SERVICE STATION	4-R12-31
H4	HARTO CHRISTOPHER L	4-R12-33
I4	DEGARMO SCOTT M & AMANDA K	4-R12-34
J4	LUZADER BEVERLY J	4-R12-32
K4	REAMANN E	4-R12-30
L4	GORNEY MARY M(LIFE ESTATE) TAGG KATHLEEN G GORNEY	4-R12-24
M4	GANO DAVID BOYCE & MARY ELLEN	4-R12-35.1
N4	RUMIS HARRY A JR AND EDITH J RUMIS REVOCABLE TRUST	4-R12-23
O4	PAREE MATTHEW J & TISHA L	4-R12-23.6
P4	JEBBIA E; RUTTENBERG R & O'DELL J	4-R12-23.5
Q4	BUFFINGTON ROBBY W	4-R12-23.9
R4	CIARROCCHI GLORIA J	4-R12-23.4
S4	BARON MICHAEL L AND KATHY D	4-R12-23.8
T4	WITZBERGER LAWRENCE W III & JACQUELYN MAIN	4-R12-22
U4	OHIO COUNTY PUBLIC SERV DIST	4-R12-35.3
V4	WITZBERGER LAWRENCE W & JACKIE M	4-R12-23.2
W4	WITZBERGER LAWRENCE IV	4-R12-19.5
X4	TIERRA HOME OWNERS ASSOCIATION INC	4-R12-19.32
Y4	TIERRA HOME OWNERS ASSOCIATION INC	4-R12-19.33
Z4	BOHN ROLLIN P & TARA M	4-R12-23.36
A5	STOLZ WILLIAM C	4-R12-23.7
B5	STOLZ WILLIAM C	4-R12-23.7
C5	DEFRANCO DAVID P & KRISTY A	4-R12-23.3
D5	ZAHNOW HOLLY J	4-R12-23.24
E5	GEORGE CHRISTOPHER T & AMBER D	4-R12-23.21
F5	BOHN ROLLIN P & TARA	4-R12-23.22
G5	PAREE MATTHEW J & TISH L	4-R12-23.20
H5	PAREE TISH L NELSON DALE & PAMELA	4-R12-23.23
I5	CANESTRARO VICTOR R & TRACY L	4-R12-23.25
J5	DIMMICK DANIEL AUGUSTUS & TAMA LYNN	4-R12-23.18
K5	MILLER JOHN DAVID & JENNIFER LYN	4-R12-23.26
L5	MILLER JOHN DAVID & JENNIFER L	4-R12-23.33
M5	MENDELSON MATTHEW D & SHARON R	4-R12-23.28
N5	MENDELSON MATTHEW JONES SHARON	4-R12-23.11

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
O5	MENDELSON MATTHEW D JONES SHARON R	4-R12-23.10
P5	RATCLIFFE MICHAEL THOMAS & MICHELLE LYNN	4-R12-23.15
Q5	JONES ROBERT E LIVING TRUST C/O JONES ROBERT E TRUSTEE	4-R12-18
R5	KEDING STEPHEN E & DEBORAH E	4-R12-19.21
S5	RHOME DANIEL D & WENDY L	4-R12-19.45
T5	LAWTHER DENNIS E AND ANNA M	4-R12-19.35
U5	MARSH BENJAMIN A	4-R12-19.31
V5	ELSWICK CARLEY & CHRISTOPHER	4-R12-21
W5	WOODS EDWARD A & K L	4-R12-21.1
X5	LUCAS RICHARD J & KRISTEN L	4-R12-19.4
Y5	COLUMBIA GAS TRANSMISSION CORP	4-R12-19.1
Z5	WOLF THOMAS J & JUDITH K	4-R12-19.8
A6	WOLF THOMAS J & JUDITH K	4-R12-19.42
B6	BROADWATER FRANCINE	4-R12-19.44
C6	BROADWATER TRAVIS	4-R12-19.25
D6	YAHN CHRISTOPHER & JACQUELINE	4-R12-19.3
E6	YAHN CHRISTOPHER & JACQUELINE	4-R12-19.2
F6	JACKSON HOLE PROPERTIES LLC	4-R12-19.15
G6	LONG BRIAN K & STACEY M	4-R12-19.13
H6	CARNEY MICHAEL B & KERRY M	4-R12-19.12
I6	GRUBER ALEX J AMANDA L	4-R12-19.46
J6	EDGMON DENA M	4-R12-19.18
K6	GEORGE THOMAS E & K A	4-R12-19.16
L6	BURKEY MICHAEL P & ASHLEE A	4-R12-19.9
M6	NASH GARY ALLEN JR & NASH WHITNEY MARIE NOEL	4-R12-19.36
N6	NASH GARY A JR	4-R12-19.47
O6	NASH GARY A JR	4-R12-19.48
P6	FEDORKA DOLORES M TRUST 1993	4-R12-19.49
Q6	MORAY NICHOLAS & LAUREN	4-R12-19.19
R6	SHORT LUKE A KUCERA-SHORT JENNIFER L	4-R12-19.17
S6	SHORT LUKE A KUCERA-SHORT JENNIFER L	4-R12-19.20
T6	KUBOVICZ SUSAN K	4-R12-19.23
U6	CASTLE DAVID N & RITA A	4-R12B-1.3
V6	CASTLE KEITH D & AMANDA M	4-R12B-1.9
W6	BARTON JEREMY D & BROOKE M	4-R12-19.37
X6	BARTON JEREMY D & BROOKE M	4-R12-19.27
Y6	BARTON JEREMY D & BROOKE M	4-R12-19.38
Z6	BROADWATER TRAVIS J & JENNA M	4-R12-19.39
A7	BROADWATER TRAVIS J & JENNA N	4-R12-19.51
B7	COTTRELL DOMINIC J & SHERRIE D	4-R12-19.34
C7	WODESKY ERIC & JENNIFER	4-R12-19.41
D7	BRYAN JENNIFER M	4-R12-19.43
E7	BRYAN JENNIFER M	4-R12-19.50
F7	MOORE MITCHELL & SANDRA	4-R12-19.29
G7	MOORE MITCHELL J & SANDRA	4-R12-19.28
H7	STERN VIRGINIA S	4-R12B-10.9
I7	HOWARD ANDREW	4-R12B-10.10
J7	HOWARD CHRISTOPHER J	4-R12B-10.11
K7	HOWARD CHRISTOPHER J	4-R12B-10.12
L7	HOWARD CHRISTOPHER J	4-R12B-10
M7	SMITH ORVILLE A II & ALEXIS PICKER	4-R9-32
N7	BURKHART MARY J G & M J	4-R12-36.3
O7	CARTISANO JOSEPH S & S P	4-R12-36.4
P7	SMITH ORVILLE A II & ALEXIS PICKER	4-R9-34
Q7	PETIT BERNARD R	4-R12-48
R7	WEEKS BRADLEY & NANCY	4-R9-34.1
S7	PYLE JOHN R & T A	4-R12B-5
T7	JARVIS WILLIAM R & SANDRA K	4-R12B-6
U7	HASTINGS DALE A & JENNIFER E	4-R12B-1.4
V7	KELLAS STEVE	4-R12B-1.5
W7	GOSSETT MATHEW H	4-R12B-1
X7	STROMATOS GEORGE	3-L4-24
Y7	STROMATOS GEORGE	3-L4-24.1
Z7	STROMATOS GEORGE	3-L4-24.2
A8	RUTHERS DAVID G	3-L4-22
B8	HLA YEM & MMINT EIE	3-L4-20

REVISIONS:	COMPANY:	 		
	OPERATOR'S	DALLAS HALL OHI	API NUMBER:	DATE: 08-09-2022
	WELL #:	406H	47-069-00354	DRAWN BY: N. MANO
	DISTRICT:	LIBERTY	COUNTY:	SCALE: N/A
			STATE:	DRAWING NO:
			WV	WELL LOCATION PLAT 4

WW-6A1
(5/13)

Operator's Well No. DALLAS HALL OHI 406H

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

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

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

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

See Exhibit A

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

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

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

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WV Department of
Environmental Protection

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.

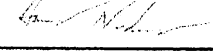
Well Operator: SWN Production Co., LLC 
 By: _____ Gavin Nadeau, RPL
 Its: _____ Landman

EXHIBIT "A"						
Dallas Hall OHI 466H						
Ohio County, West Virginia						
Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, L.L.C., Operator						
#	TMP	LESSOR	LESSEE	ROYALTY	RE/PG	% INTEREST NOT LEASED BY SWN PRODUCTION COMPANY, L.L.C.
1)	03-00L7-0019-0000	Dallas J. Hall and Agnes L. Hall, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.50%	811/04 884/61	0.00%
2)	03-00L7-0021-0001	Dallas J. Hall and Agnes L. Hall, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.50%	811/04 884/61	0.00%
3)	04-R12B-0001-0001	John R. Pyle, Sr. and Theresa A. Pyle, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	813/228 884/133	0.00%
4)	04-R12B-0001-0002	Douglas J. Ernest and Jamie S. Ernest, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	831/534 884/729	0.00%
5)	ROUTE 88	West Virginia Department of Transportation, Division of Highways	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	830/11 882/250	0.00%
6)	04-OR12-0036-0003	Keely O. Camden, single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	813/424 884/505	0.00%
7)	04-OR12-0036-0000	James E. Croft and James J. Croft, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	826/110 884/705	0.00%
8)	04-R12B-0019-0006	Frank A. Hotoz and Cindy L. BonfiniHotoz, by Frank A. Hotoz as Attorney-in Fact, husband and wife	SWN Production Company, LLC	18.00%	922/538	0.00%
9)	04-R12B-0019-0005	James E. Stosking and Brenda J. Stosking, husband and wife	SWN Production Company, LLC	18.00%	929/683	0.00%
10)	04-R12B-0010-0001	Virginia Shuttler Stern	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	863/171 884/529	0.00%
11)	04-R12B-0010-0008	Virginia Shuttler Stern	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	863/171 884/529	0.00%
12)	04-OR12-0019-0026	Jeffrey M. Knight and Kristen M. Knight, husband and wife	SWN Production Company, LLC	18.00%	923/716	0.00%
13)	04-OR12-0019-0024	Brian S. Biskakis, single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	848/580 884/669	0.00%
14)	04-OR12-0019-0000	Frank Fedorka, Co-Trustee of the Frank Fedorka Trust of 1993	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	818/362 884/693	0.00%
15)	04-OR12-0019-0040	Frank Fedorka, Co-Trustee of the Frank Fedorka Trust of 1993	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	818/362 884/693	0.00%
16)	04-OR12-0019-0006	Michael B. Conroy and Kerry M. Conroy, husband and wife	SWN Production Company, LLC	18.00%	920/507	0.00%
17)	04-OR12-0019-0010	Richard C. Mull and Denise Mull, husband and wife	SWN Production Company, LLC	14.00%	924/536	0.00%
18)	04-OR12-0019-0011	Jeremiah Demo and Jennifer L. Demo, husband and wife	SWN Production Company, LLC	16.00%	923/83	0.00%
19)	04-OR12-0019-0007	Michael W. Benson and Kristen C. Benson, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	877/28 893/891	0.00%
20)	04-OR12-0035-0000	John P. Weby, married	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	813/441 884/437	0.00%
21)	04-OR12-0041-0000	Elizabeth Maguire Jellen, a married woman, dealing in her sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	813/447 884/469	0.00%
22)	04-OR12-0041-0004	William M. Barozak, single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	859/143 884/505	0.00%
23)	04-OR12-0041-0002	William M. Barozak, single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	859/143 884/505	0.00%
24)	04-OR12-0044-0000	Kathleen E. Taylor, a married woman dealing in her sole and separate property, and Kevin J. Taylor, a single man	SWN Production Company, LLC	14.00%	912/239	0.00%
25)	04-OR12-0045-0021	John A. Tarr, IV	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	799/600 884/217	0.00%
26)	04-OR12-0045-0010	L. Dale Smith, II and Karen L. Smith, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	841/178 883/25	0.00%
27)	04-OR12-0045-0016	David A. Dent and Sarah R. Dent, M/A Sara R. Throckmorton, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	862/297 883/776	0.00%
28)	03-00L7-0022-0000	Jacob M. Robinson, Jr.	SWN Production Company, LLC	18.00%	1013/716	0.00%
29)	03-00L7-0022-0008	Matthew T. W. Perry and Shelby L. Perry, husband and wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.00%	932/73 946/601	0.00%
30)	03-0L10-0002-0000	Carl S. Bippus	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	814/773 883/573	0.00%
31)	03-0L10-0001-0007	Carl S. Bippus	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	814/773 883/573	0.00%
32)	03-0L10-0001-0006	Jane M. Seabright	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	812/713 884/7	0.00%
33)	03-0L10-0015-0000	Stephen R. Burke and Raina J. Burke, husband and wife	SWN Production Company, LLC	16.00%	931/732	0.00%
34)	03-0L10-0015-0003	Brian E. Joseph and Julie Joseph, husband and wife	SWN Production Company, LLC	16.00%	932/301	0.00%
35)	03-0L10-0015-0002	Robert C. Hasket, Jr. and Margaret L. Hasket, husband and wife	SWN Production Company, LLC	18.00%	931/782	0.00%
36)	03-0L10-0015-0001	William F. Irwin and Marcella J. Irwin, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	811/395 883/515	0.00%
37)	03-0L10-0028-0000	Gleam L. Walters and Rebecca S. Walters, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	814/180 883/573	0.00%
38)	03-0L10-0023-0000	Robert R. Luchetti and Adelaide T. Luchetti, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	793/37 885/248	0.00%
39)	03-0L10-0027-0003	Curtis R. Byrum and Caroline Byrum, husband and wife	TriEnergy, Inc. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	786/683 798/653 883/272	0.00%

END OF EXHIBIT "A"

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WV Department of
Environmental Protection

11/04/2022



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

September 22, 2022

Mr. Brewer:
WV DEP Office of Oil & Gas
601 57th St., SE
Charleston, WV 25304

RE: SWN's proposed New Well: Dallas Hall OHI 406H in Ohio County, West Virginia, Drilling under Deerhaven Drive, Log Cabin Lane, Oglebay Drive, Short Creek Road, Dement Road, and Dixon Run Road.

Dear Mr. Brewer:

SWN Production Company, LLC ("SWN") is applying for a drilling permit for the above referenced well. The State of West Virginia has raised some concern as to SWN's right to drill under Deerhaven Drive, Log Cabin Lane, Oglebay Drive, Short Creek Road, Dement Road, and Dixon Run Road. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Respectfully,

SWN Production Company, LLC

A handwritten signature in blue ink, appearing to read "Gavin Nadeau".

Gavin Nadeau, RPL
Landman

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WV Department of
Environmental Protection



The Right People doing the Right Things,
wisely investing the cash flow from our
underlying Assets, will create Value.

11/04/2022

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

RECEIVED
 Office of Oil and Gas
 OCT 03 2022

Date of Notice Certification: 9/29

API No. 47- 009 - _____
 Operator's Well No. Dallas Hall OHI 406H
 Well Pad Name: Dallas Hall OHI

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>532,970.569</u>
County:	<u>069-Ohio</u>		Northing:	<u>4,442,625.110</u>
District:	<u>Liberty</u>	Public Road Access:	<u>G C and P Road</u>	
Quadrangle:	<u>Bethany</u>	Generally used farm name:	<u>Dallas Hall OHI</u>	
Watershed:	<u>Short Run- Ohio River</u>			

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

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

Required Attachments:

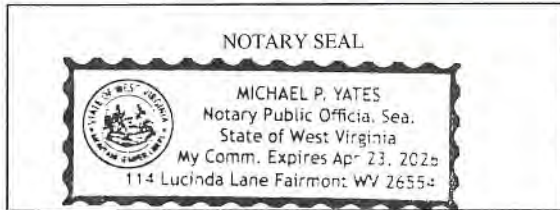
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication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

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 13 day of April, 2022
Michael P. Yates Notary Public
 My Commission Expires Apr 23, 2025

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.

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 OCT 03 2022
 WV Department of
 Environmental Protection

**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: 9/29 **Date Permit Application Filed:** 9/29

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: Mike Hall
 Address: 1953 G C and P Road
Triadelphia, WV 26059
 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: Alliance Resources, GP, LLC Attn: Evan Midler
 Address: 275 Technology Drive Suite 101
Triadelphia, WV 26059

COAL OPERATOR
 Name: _____
 Address: _____

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

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

*Please attach additional forms if necessary

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 Office of Oil and Gas
 OCT 03 2022
 WV Department of
 Environmental Protection

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

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

Date of Notice: _____ **Date Permit Application Filed:** _____

Notice of:

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

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

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

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

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

RECEIVED
Office of Oil and Gas

OCT 03 2022

WV Department of
Environmental Protection

SURFACE OWNER(s)
Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: Windsor Coal Company Attn: Casey Saunders
Address: 275 Technology Drive Suite 101
Canonsburg, PA 15317

Name: _____
Address: _____

COAL OPERATOR
Name: _____
Address: _____

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

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

Name: _____
Address: _____

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

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

*Please attach additional forms if necessary

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

WW-6A
(8-13)

API NO. 47-009 -
OPERATOR WELL NO. Dallas Hall OHI 406H
Well Pad Name: Dallas Hall OHI

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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

11/04/2022

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)

4706900354
API NO. 47-009
OPERATOR WELL NO. Dallas Hall OHI 406H
Well Pad Name: Dallas Hall OHI

Notice is hereby given by:

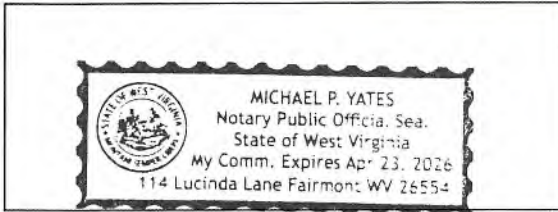
Well Operator: SWN Production Co., LLC
Telephone: 304-884-1610
Email: Brittany_Woody@swn.com

Brittany Woody

Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26059
Facsimile: 304-884-1690

Oil and Gas Privacy Notice:

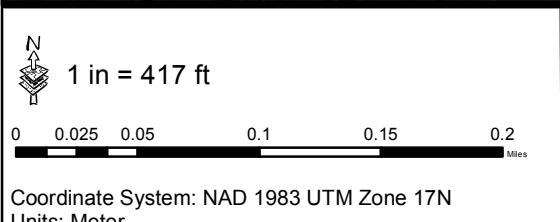
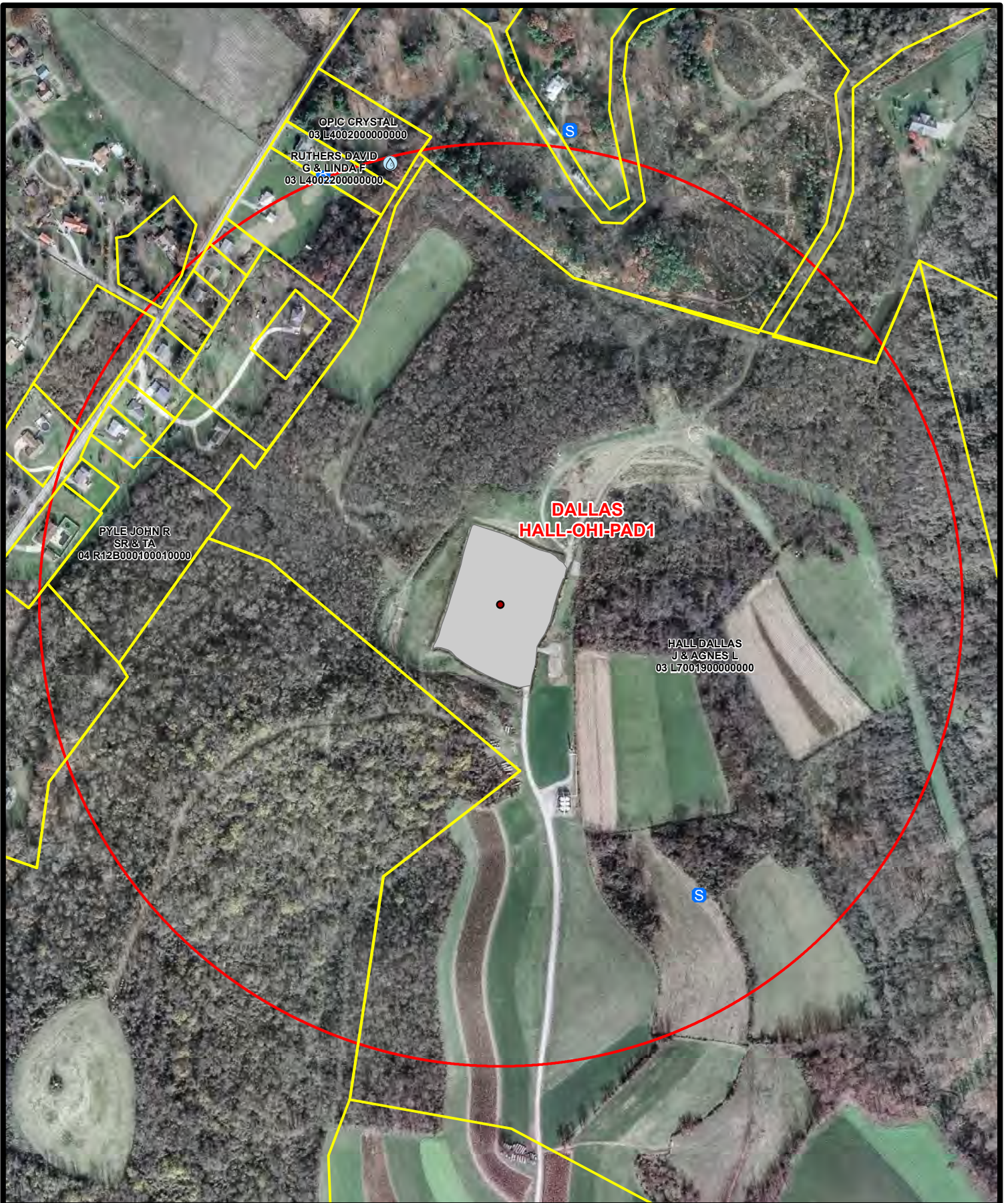
The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory 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.



Subscribed and sworn before me this 13 day of April, 2022
Michael P. Yates Notary Public
My Commission Expires April 23, 2026

Attachment 13 A

Parcel_ID	Owner	Address	City_State_Zip	Watersources
03 L7001900000000	Hall Mike	1953 G C and P Road	Triadelphia WV 26059	1
04 R12B000100010000	Pyle John R SR & T A	4042 Oglebay Dr	Wheeling WV 26003	1
03 L4002200000000	Ruthers David G & Linda F	4196 Oglebay Dr	Wheeling WV 26003	1
03 L4002000000000	Opic Crystal	112 Avalon Est	Wheeling WV 26003	1



- P Pond
- S Spring
- Stream
- Water Well
- 1500' Buffer

Water Purveyor Map
Well Pad: Dallas Hall
County: OH

11/04/2022

Date: 4/24/2018 Author: willisb

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: 3/28/2022 **Date of Planned Entry:** 4/4/2022

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: Dallas J. Hall & Agnes L. Hall ✓
 Address: 1953 G C and P Road
 Triadelphia, WV 26059
 Name: _____
 Address: _____
 Name: _____
 Address: _____

COAL OWNER OR LESSEE

Name: Alliance Resources GP, LLC Attn: Evan Midler
 Address: 2596 Battle Run Road
 Triadelphia, WV 26059

MINERAL OWNER(s)

Name: Dallas J. Hall & Agnes L. Hall ✓
 Address: 1953 G C and P Road
 Triadelphia, WV 26059
 *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	Approx. Latitude & Longitude: 40.133412, -80.812801
County: Ohio	Public Road Access: Bethany Pike
District: Liberty	Watershed: Short Creek
Quadrangle: Bethany	Generally used farm name: Dallas Hall OH1 Pad

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

Notice is hereby given by:

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

Address: 1300 Fort Pierpont Dr., Suite 201
 Morgantown, WV 26508
 Facsimile: _____

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Office of Oil and Gas

OCT 03 2022

WV Department of
Environmental Protection

Oil and Gas Privacy Notice:

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

11/04/2022

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: 3/28/2022 **Date of Planned Entry:** 4/4/2022

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: Dallas J. Hall & Agnes L. Hall

Address: 1953 G C and P Road
Triadelphia, WV 26059

Name: _____

Address: _____

Name: _____

Address: _____

COAL OWNER OR LESSEE

Name: Windsor Coal Company

Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

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Office of Oil and Gas

MINERAL OWNER(s)

Name: Dallas J. Hall & Agnes L. Hall

Address: 1953 G C and P Road
Triadelphia, WV 26059

OCT 03 2022
WV Department of
Environmental Protection

*please attach additional forms if necessary

Notice is hereby given:

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

State: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>40.133412, -80.612901</u>
County: <u>Ohio</u>	Public Road Access: <u>Bethany Pike</u>
District: <u>Liberty</u>	Watershed: <u>Short Creek</u>
Quadrangle: <u>Bethany</u>	Generally used farm name: <u>Dallas Hall OHI Pad</u>

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

Notice is hereby given by:

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

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 depprivacvofficer@wv.gov.

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(1/12)

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

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

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.
Date of Notice: 04/12/2022 **Date Permit Application Filed:** 9/12/22

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Office of Oil and Gas

OCT 03 2022

WV Department of
Environmental Protection

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

- HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

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

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

Name: Mike Hall
Address: 1953 G C and P Rd
Triadelphia, WV 26059

Name: _____
Address: _____

Notice is hereby given:

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

State: West Virginia UTM NAD 83 Easting: 532,970.569
County: Ohio Northing: 4,442,625.110
District: Liberty Public Road Access: G C and P Road
Quadrangle: Bethany, WV Generally used farm name: Dallas Hall OHI
Watershed: Short Run-Ohio River (HUC-10)

This Notice Shall Include:

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

Notice is hereby given by:

Well Operator: SWN Production Company, LLC
Address: 1300 Fort Pierpont Rd. - Suite 200
Morgantown, WV 26508
Telephone: 304-884-1714
Email: michael_yates@swn.com
Facsimile: _____

Authorized Representative: Michael Yates
Address: 1300 Fort Pierpont Rd. - Suite 200
Morgantown, WV 26508
Telephone: 304-884-1714
Email: michael_yates@swn.com
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.

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: 04/12/2022 **Date Permit Application Filed:** 9/29

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

CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

RECEIVED
Office of Oil and Gas
OCT 03 2022
WV Department of Environmental Protection

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: Mike Hall Name: _____
Address: 1953 G C and P Rd Address: _____
Triadelphia, WV 26059

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: West Virginia UTM NAD 83 Easting: 532,970.569
County: Ohio Northing: 4,442,625.110
District: Liberty Public Road Access: G C and P Road
Quadrangle: Bethany, WV Generally used farm name: Dallas Hall OHI
Watershed: Short Run-Ohio River (HUC-10)

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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: SWN Production Company, LLC Address: 1300 Fort Pierpont Rd. - Suite 200
Telephone: 304-884-1714 Morgantown, WV 26508
Email: michael_yates@swn.com 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 deprivacyofficer@wv.gov.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

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

April 12, 2022

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

Subject: DOH Permit for the Dallas Hall Pad, Ohio County
Dallas Hall OHI 406H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2011-0363 which has been issued to Southwestern Energy for access to the State Road for a well site located off Ohio County Route 37 SLS MP 0.643.

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

Very Truly Yours,

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

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

RECEIVED
Office of Oil and Gas
OCT 03 2022
WV Department of
Environmental Protection

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
EC6486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate Ethylene Glycol	Proprietary 107-21-1
EC6734A (Champion Technologies)	Biocide	Hydrogen Peroxide	7722-84-1
		Acetic Acid	64-19-7
		Peroxyacetic Acid	79-21-0
Econo-CI200 (SWN Well Services)	Corrosion Inhibitor	Methanol	67-56-1
		Oxyalkylated fatty acid	68951-67-7
		Fatty acids	61790-12-3
		Modified thiourea polymer	68527-49-1
		Water	7732-18-5
		Hydrochloric acid	7647-01-0
		Potassium acetate	127-08-2
		Formaldehyde	50-00-0
Ecopol-FEAC (SWN Well Services)	Iron Control	Acetic Acid	64-19-7
		Citric Acid	77-92-9
		Water	7732-18-5
FDP-S1176-15 (Halliburton)	Friction Reducer	Polyacrylate Hydrotreated light petroleum distillate	Proprietary 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 Ammonium Chloride	Proprietary 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
		Ethanol	64-17-5
Tolcide PS50A	Biocidal product	Tetrakis (hydroxymethyl) phosphonium sulphate	55566-30-8
		Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups	397256-50-7
LD-2950	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
		Ethoxylated alcohol	Proprietary
Legend LD-7750W	Scale Control	Poly (oxy-1,2-ethanediy)l alpha.-tridecyl-omega.-hydroxy-, branched	69011-36-5
		Methanol	67-56-1
		Phosphonic Acid Salt	Proprietary
MC MX 8-4743	Specialty Product	Sodium Nitrate	7631-99-4
Ferriflex 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	15827-60-8

As of 9/8/2022

RECEIVED
Office of Oil and Gas

OCT 03 2022

WV Department of
Environmental Protection

11/04/2022

OPERATOR: SWN Production Co., LLC WELL NO: Dallas Hall OHI 406H

PAD NAME: Dallas Hall OHI

REVIEWED BY: _____ SIGNATURE: Bethany Woody

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

**Pad Built 4/1/11*

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

Office of Oil and Gas
 OCT 03 2022
 WV Department of Environmental Protection



USGS 7.5 BETHANY/VALLEY GROVE QUAD MAPS



**WVDEP OOG
ACCEPTED AS-BUILT**

WJ 2/21/2018



DALLAS HALL OHI WELL PAD

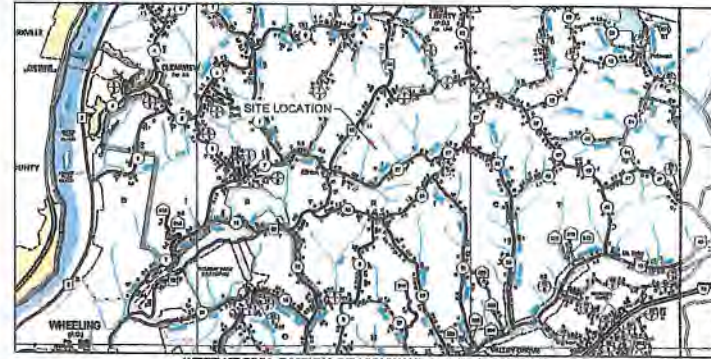
CONSTRUCTION AS-BUILT & RECLAMATION PLAN

LIBERTY DISTRICT, OHIO COUNTY, WV
OCTOBER 2017

LOCATION COORDINATES:
ACCESS ROAD ENTRANCE
 LATITUDE: 40.120841 LONGITUDE: -80.815332 (NAD-83)
 N 14570959.65 E 1747953.31 (UTM ZONE 17 METERS)
WELL PAD CENTER
 LATITUDE: 40.133400 LONGITUDE: -80.812897 (NAD-83)
 N 14575545.90 E 1748914.12 (UTM ZONE 17 METERS)

NOTES:
 1. THE AS-BUILT INFORMATION SHOWN HEREON REFLECTS FIELD DATA COLLECTED RELATING TO THE FINAL GRADING OF THE DISTURBED AREA AS OF AUGUST 4, 2017. LARSON DESIGN GROUP IS NOT RESPONSIBLE FOR ANY CHANGES MADE TO THE SITE AFTER THE ABOVE MENTIONED DATE.
 2. PROPERTY INFORMATION SHOWN HEREON WAS PROVIDED BY SOUTHWESTERN ENERGY AND MAY NOT REFLECT CURRENT BOUNDARY LOCATION.

TOTAL DISTURBED AREA: 22.80 ACRES
 ROAD DISTURBED AREA: 14.08 ACRES
 PAD DISTURBED AREA: 8.54 ACRES



WEST VIRGINIA DIVISION OF HIGHWAYS COUNTY ROAD MAP



WELL NAMES	WV NORTH NAD 27	WV NORTH NAD 83	UTM (METERS) ZONE 17	NAD 83 LAT & LONG	ELEVATION (FEET)
	AS-BUILT COORDINATES				
DALLAS HALL #1 (SHILLEY) AP# 47-018-00075	N 598767.18 E 1018758.81	N 598824.89 E 10187324.78	N 4442822.84 E 622972.51	LAT 40.133200° LONG -80.812891°	1379.47'
DALLAS HALL #2 (SHILLEY) AP# 47-018-00075	N 598764.13 E 1018754.43	N 598821.05 E 10187316.60	N 4442818.83 E 622976.05	LAT 40.133200° LONG -80.812928°	1378.71'

SHEET INDEX

- 1 COVER SHEET
- 2-3 EVACUATION ROUTE/PREVAILING WINDS
- 4 AS-BUILT OVERALL PLAN SHEET INDEX
- 5-7 ACCESS ROAD AS-BUILT PLAN
- 8 WELL PAD AS-BUILT PLAN
- 9-10 ACCESS ROAD AS-BUILT PROFILE
- 11 WELL PAD AS-BUILT PROFILE
- 12 AS-BUILT RECLAMATION PLAN OVERALL PLAN SHEET INDEX
- 13-15 AS-BUILT ACCESS ROAD RECLAMATION PLAN
- 16 AS-BUILT WELL PAD RECLAMATION PLAN
- 17 GENERAL NOTES AND DETAILS
- 18-19 DETAILS

AS-BUILT CERTIFICATION
 THE DRAWINGS, CONSTRUCTION NOTES, AND REFERENCE DIAGRAMS ATTACHED HERETO HAVE BEEN PREPARED IN ACCORDANCE WITH THE WEST VIRGINIA CODE OF STATE RULES, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS CSR 35-8.

ENGINEERING ESTIMATE OF QUANTITIES WELL SITE PAD DATA (DRILLING)		
INSTALL MOUNTABLE BERM	87	CY
RAISE EXISTING CONTAINMENT BERM TO MIN. 2' HEIGHT	10	CY
SEED & MULCH DISTURBED AREAS	220	SY
18" COMPOST SOCK	342	LF
STONE FOR PAD SURFACE REPAIR AND MOUNTABLE BERM STONE SURFACING	38	CY
WELL SITE PAD DATA (RECLAMATION)		
REMOVE SUMP	2	EA
BREACH BERM	2	EA
10' WIDE RIP-RAP DISCHARGE CHANNELS	18	CY

C. J. Hill
12/19/17



MISS Utility of West Virginia
 1-800-245-4848
 West Virginia State Law
 (Section XIV, Chapter 24-C)
 Requires that you call two business days before you dig in the state of West Virginia.
 IT'S THE LAW!



ORIGINAL SHEET SIZE:
 ANSI FULL BLEED D (22.00 X 34.00 INCHES)
 SHEET NO.:
 1 OF 19
 PROJECT NO.:
 7688-016-011



NO.	DATE	ISSUE / REVISIONS
1	10/17/2017	FINAL AS-BUILT PLAN
2	1/29/2018	DRAFT AS-BUILT PLAN COMMENTS
		BY: LDG

DALLAS HALL OHI WELL PAD
 Liberty District, Ohio County, West Virginia
 Larson Design Group - Architects Engineers Surveyors
 Larson Design Group
 2502 Cranberry Square
 Morgantown, WV 26508
 PHONE 304.777.2940 TOLL FREE 877.323.6603
 FAX 304.777.2940 • www.larsondesigngroup.com

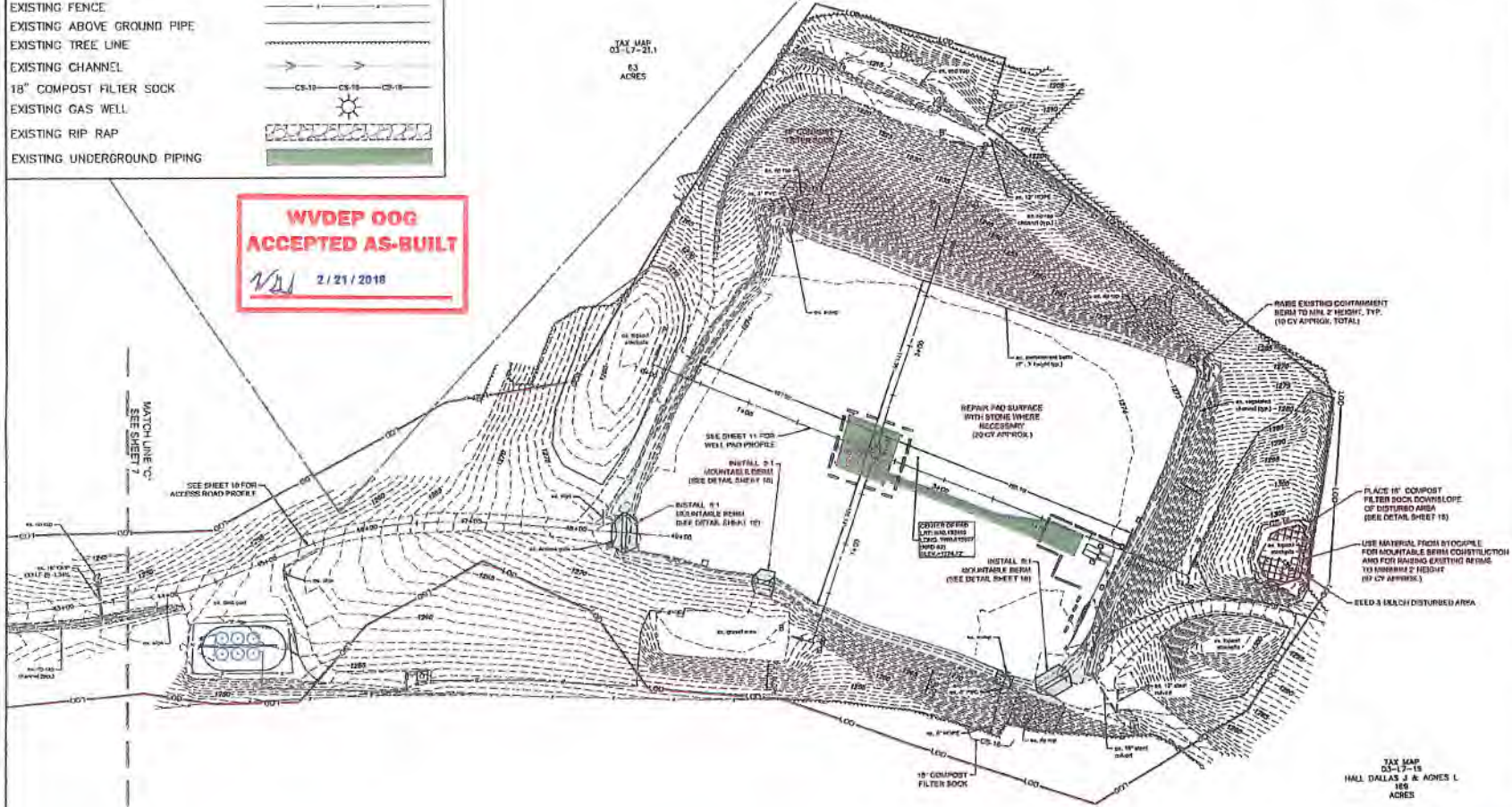
SWN Production Company, LLC
 179 Innovation Drive
 Jeta's Law, WV 26378
 PHONE 304.864.1522

WELL PAD AS-BUILT PLAN

EXISTING LIMIT OF DISTURBANCE	---
EXISTING PROPERTY	---
EXISTING PAVEMENT	---
EXISTING GRAVEL	---
EXISTING GAS LINE	---
EXISTING WATER LINE	---
EXISTING FENCE	---
EXISTING ABOVE GROUND PIPE	---
EXISTING TREE LINE	---
EXISTING CHANNEL	---
18" COMPOST FILTER SOCK	CS-18 CS-18 CS-18
EXISTING GAS WELL	☀
EXISTING RIP RAP	---
EXISTING UNDERGROUND PIPING	---

TAX MAP
03-17-21.1
63
ACRES

**WVDEP OOG
ACCEPTED AS-BUILT**
2/21/2018



NO.	DATE	DESCRIPTION	ISSUE / REVISIONS
1	10/17/2017	FINAL AS-BUILT PLAN	BIG RMR
2	9/29/2017	DRAFT AS-BUILT PLAN	BIG RMR
3		COMMENTS	BT CLK

WELL PAD AS-BUILT PLAN
DALLAS HALL OHI WELL PAD
 LIBERTY DISTRICT, DALLAS COUNTY, WEST VIRGINIA
 Larson Design Group • Architects Engineers Surveyors
 2302 Cranberry Square
 Morgantown, WV 26508
 PHONE 304.777.2340 TOLL FREE 877.323.6603
 FAX 570.323.9902 • www.larsondesigngroup.com

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WELLHEAD INDEX

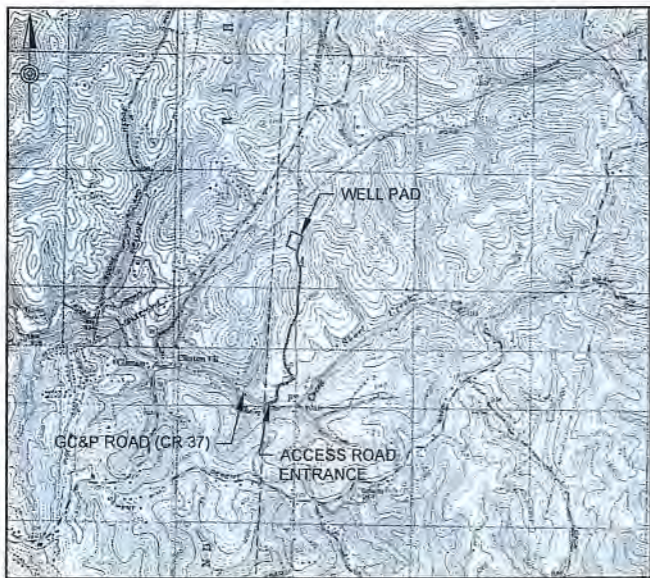
(A)	DALLAS HALL OHI (DILLED)
(B)	DALLAS HALL OHI (EMERGED)



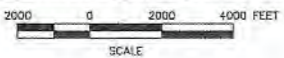
DALLAS HALL OHI WELL PAD

CONSTRUCTION AS-BUILT & RECLAMATION PLAN

LIBERTY DISTRICT, OHIO COUNTY, WV
OCTOBER 2017



USGS 7.5 BETHANY/VALLEY GROVE QUAD MAPS



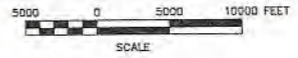
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WEST VIRGINIA DIVISION OF HIGHWAYS COUNTY ROAD MAP



TOTAL DISTURBED AREA: 22.60 ACRES
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WELL NAMES	SW NORTH NAD 27	SW NORTH NAD 83	UTM (METERS) ZONE 17	NAD 83 LAT & LONG	ELEVATION (FEET)
DALLAS (51275-H) OHIO (39-ADP-21-049-0265)	N 596797.18 E 1689759.81	N 596834.10 E 1687324.79	N 4442622.64 E 532977.51	LAT 40.133236° LONG -80.612911°	1276.47'
DALLAS (51275-H) OHIO (39-ADP-21-049-0265)	N 596784.13 E 1689754.43	N 596827.05 E 1687319.60	N 4442618.63 E 532976.00	LAT 40.133230° LONG -80.612929°	1276.71'

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WELL SITE PAD DATA (RECLAMATION)		
REMOVE SUMP	2	EA
BREACH BERM	2	EA
10" WIDE RIP RAP DISCHARGE CHANNELS	18	CY



WEST VIRGINIA COUNTY MAP
NOT TO SCALE

NO.	DATE	ISSUE / REVISIONS
1	10/17/2017	FINAL AS-BUILT PLAN
2	09/29/2017	DRAFT AS-BUILT PLAN
		COMMENTS
		BY / CHK

DALLAS HALL OHI WELL PAD
 LIBERTY DISTRICT, OHIO COUNTY, WEST VIRGINIA

Larson Design Group • Architects Engineers Surveyors
 2502 Cranberry Square
 Morgantown, WV 26508
 PHONE 304.777.2940 TOLL FREE 877.323.6603
 FAX 570.323.9902 • www.larsondesigngroup.com

SWN Production Company, LLC
 179 Innovation Drive
 Jane Lew, WV 26378
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MSK 4/21/2022