



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

Wednesday, May 15, 2024
WELL WORK PERMIT
Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC
POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit approval for State of WV DNR C BRK 606H
47-009-00343-00-00

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

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

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

James A. Martin
Chief

Operator's Well Number: State of WV DNR C BRK 606H
Farm Name: State of WV DNR, Public Land #
U.S. WELL NUMBER: 47-009-00343-00-00
Horizontal 6A New Drill
Date Issued: 5/13/2024

PERMIT CONDITIONS

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

CONDITIONS

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

05/17/2024

4700900343

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

1) Well Operator: SWN Production Co., LLC 494512924 009- Brooke 4-Cross 620-Steubenville
Operator ID County District Quadrangle

2) Operator's Well Number: State of WV DNR C BRK 606H Well Pad Name: State of WV DNR C BRK

3) Farm Name/Surface Owner: State of WV DNR Public Road Access: Putney Ridge Road

4) Elevation, current ground: 989' Elevation, proposed post-construction: 989'

5) Well Type (a) Gas Oil Underground Storage

Other

(b) If Gas Shallow Deep

Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Target Formation- Marcellus, Down-Dip well to the South, Target Top TVD- 5877', Target Base TVD- 5939', Anticipated Thickness- 62', Associated Pressure- 3860

8) Proposed Total Vertical Depth: 5620'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 31,163'

11) Proposed Horizontal Leg Length: 17544.15

12) Approximate Fresh Water Strata Depths: 371'

13) Method to Determine Fresh Water Depths: Nearby Water Well

14) Approximate Saltwater Depths: 575' Salinity Profile Analysis

15) Approximate Coal Seam Depths: None, no coal reported on other wells on pad.

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

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

(a) If Yes, provide Mine Info: Name: _____

Depth: _____

Seam: _____

Owner: _____

Strader Gower

3/19/2024

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WV Department of
Environmental Protection

WW-6B
(04/15)

API NO. 47- 009 -

OPERATOR WELL NO. State of WV DNR C BRK 606H

Well Pad Name: State of WV DNR C BRK

18)

CASING AND TUBING PROGRAM

4700900343

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#	136'	136' ✓	CTS
Fresh Water	13 3/8"	New	J-55	54.4#	425'	425' ✓	484 sx/CTS
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	1400'	1400' ✓	555 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	31163'	31163' ✓	<small>Tail 6049sx/ 100' Inside Intermediate</small>
Tubing							
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	30"	0.25	2120	81	Class A ✓	1.20/30% Excess
Fresh Water	13 3/8"	17.5"	0.330	1730	633	Class A	1.20/30% Excess
Coal	See	Surface	Casing				
Intermediate	9 5/8"	12 1/4"	0.352	3520	1768	Class A	1.19/40% Excess
Production	5 1/2"	8 3/4"-8 1/2"	0.361	14360 ✓	10500	Class A	1.19/10-15% Excess
Tubing							
Liners							

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PACKERS

Kind:				
Sizes:				
Depths Set:				

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WW-6B
(10/14)

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Office of Oil and Gas

API NO. 47- 009 -

OPERATOR WELL NO. State of WV DNR C BRK 606H

Well Pad Name: State of WV DNR C BRK

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

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

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

Well will be perforated within the target formation and stimulated with a slurry of water, sand, and chemical additives at a high rate. This will be performed in stages with the plug and perf method along the wellbore until the entire lateral has been stimulated within the target formation. All stage plugs are then drilled out and the well is flowed back to surface. In some instances, additional toe prep may be performed by pumping additional water in the toe of the well prior to perforating and pumping Stage 1 to ensure that the toe guns/toe sleeves are fully open prior to pumping stage 1. The well is produced through surface facilities consisting of high pressure production units, horizontal separation units, water and oil storage tanks. Max press and anticipated max rate- 12,500 psi @ 100 barrels a minute.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 13.7

22) Area to be disturbed for well pad only, less access road (acres): 10

23) Describe centralizer placement for each casing string:

All casing strings will be ran with a centralizer at a minimum of 1 per every 3 joints of casing.

24) Describe all cement additives associated with each cement type:


See Attachment ***

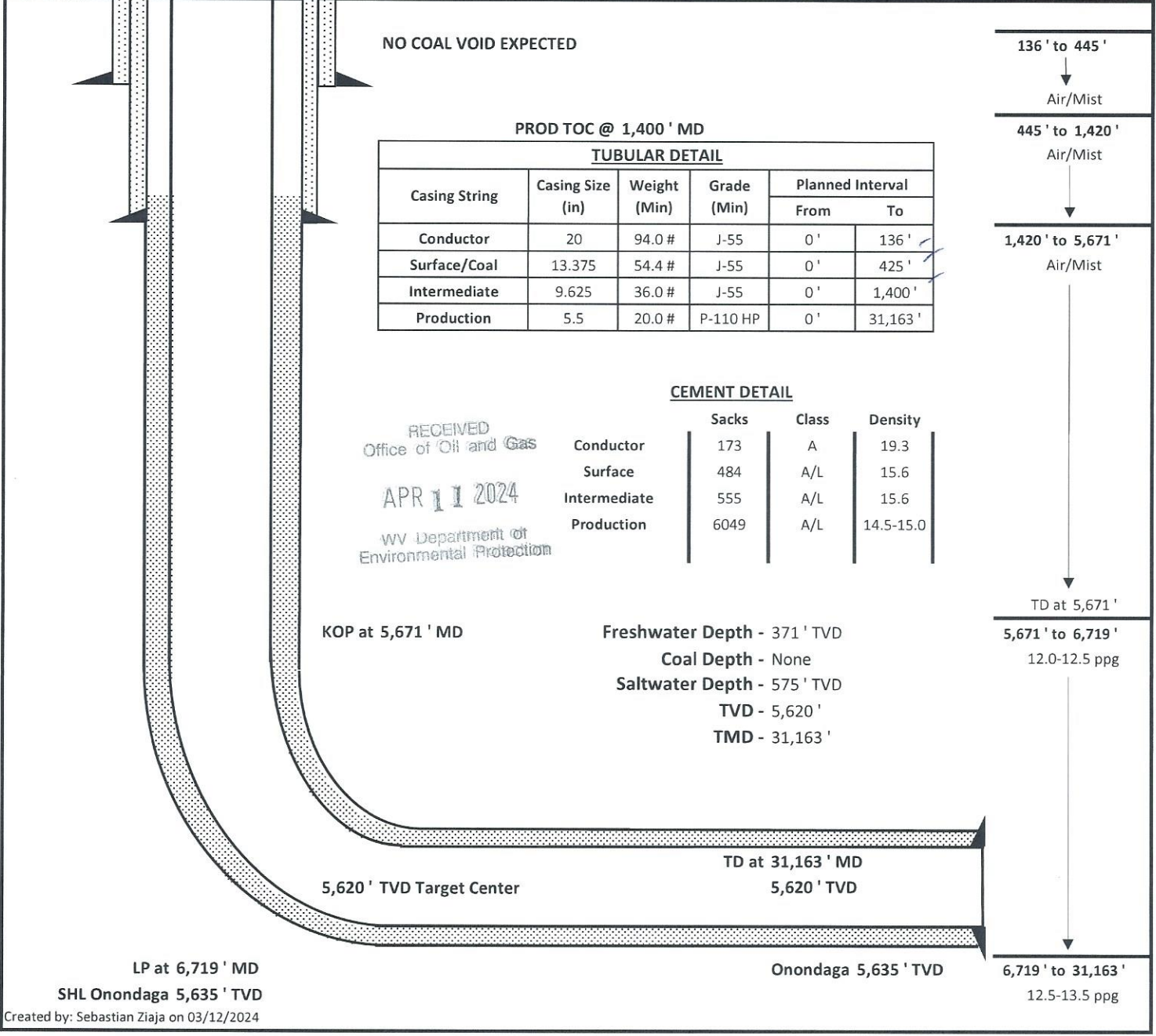
25) Proposed borehole conditioning procedures:

All boreholes will be conditioned with circulation and rotation for a minimum of one bottoms up and continuing until operator is satisfied with borehole conditions.

*Note: Attach additional sheets as needed.

4700900343

Southwestern Energy Company			Proposed Drilling Program		
Well:	STATE OF WV DNR C BRK 606H		Drilling Rig:	SDC 501	
Field:	PANHANDLE FIELD WET		Formation:	Marcellus Shale	
County:	BROOKE		State:	WV	
SHL (NAD83):	40.302206 Latitude	-80.537685 Longitude			
BHL (NAD83):	40.236145 Latitude	-80.517239 Longitude			
KB Elev:	1,015 ft MSL	KB Height: 26 ft AGL	GL Elev:	989 ft MSL	



Created by: Sebastian Ziaja on 03/12/2024

Strader Gower
3/19/2024

05/17/2024

WW-9
(4/16)

4700900343

API Number 47 - 009 - _____
Operator's Well No. State of WV DNR C BRK 606H

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) North Fork Cross Creek- Cross Creek Quadrangle Steubenville East

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

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

Proposed Disposal Method For Treated Pit Wastes:

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

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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 SOB 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 U6-08438, Brooke Co SWF-1013, FMS 353100

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

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

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

Company Official Signature Brittany Woody

Company Official (Typed Name) Brittany Woody

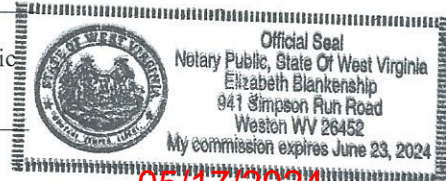
Company Official Title Staff Regulatory Specialist

Subscribed and sworn before me this 4 day of March, 2024

Elizabeth Blankenship

Notary Public

My commission expires 6/23/2024



05/17/2024

SWN Production Co., LLC

Proposed Revegetation Treatment: Acres Disturbed 13.7 Prevegetation pH _____

Lime as determined by pH test min.2 Tons/acre or to correct to pH 10

4700900343

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

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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: Strader Gower

Comments: _____

Title: Oil & Gas Inspector Date: 3/19/2024

Field Reviewed? () Yes () No

05/17/2024

**MARCELLUS WELL DRILLING PROCEDURES
AND
WELL SITE SAFETY PLAN**

4700900343



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

**API NO. 47-XXX-XXXXX
WELL NAME: State of WV DNR C BRK 606H
Steubenville East QUAD
Cross Creek DISTRICT
BROOKE COUNTY, WEST VIRGINIA**

Submitted by:

Name: Brittany Woody

A handwritten signature in blue ink that reads "Brittany Woody".

Date: 2/12/2024

Title: Staff Regulatory Specialist

SWN Production Co., LLC

Approved by:

Name: Strader Gower

Date: 3/19/2024

Title: Oil & Gas Inspector

Approved by:

Name: _____

Date: _____

Title: _____

SWN PRODUCTION COMPANY, LLC – CONFIDENTIAL

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05/17/2024

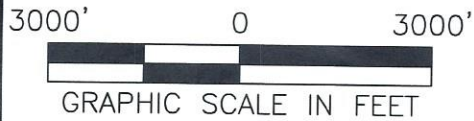
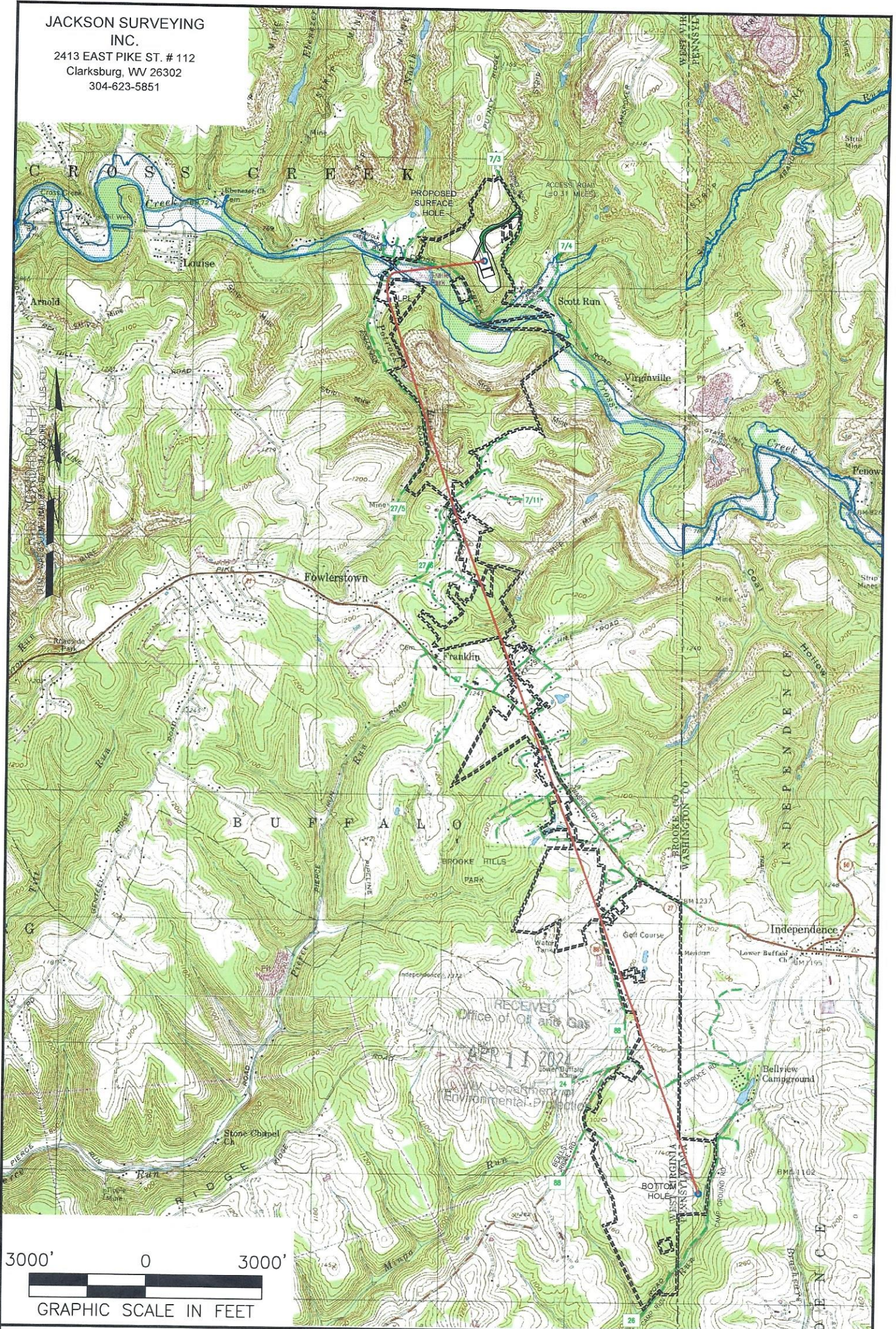
JACKSON SURVEYING

INC.

2413 EAST PIKE ST. # 112

Clarksburg, WV 26302

304-623-5851



NOTES ON SURVEY

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

LEGEND:

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

05/17/2024

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC		WELL (FARM) NAME: STATE OF WV DNR C BRK		WELL # 606H	SERIAL # 47-009-
ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 MORGANTOWN, WV 26508		COUNTY - CODE BROOKE - 009	DISTRICT; CROSS CREEK		
SURFACE OWNER: STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION		USGS 7 1/2 QUADRANGLE MAP NAME STUEBENVILLE EAST, WV			

Latitude: 40°20'00"

SURFACE HOLE 10,506'

JACKSON SURVEYING INC.

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

Latitude: 40°15'00"

BOTTOM HOLE 4,812'

BOTTOM HOLE 5048'

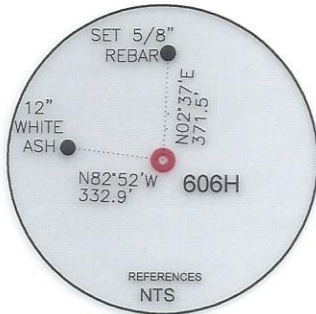
SURFACE HOLE 11,340'

Longitude: 80°30'00"

Longitude: 80°30'00"

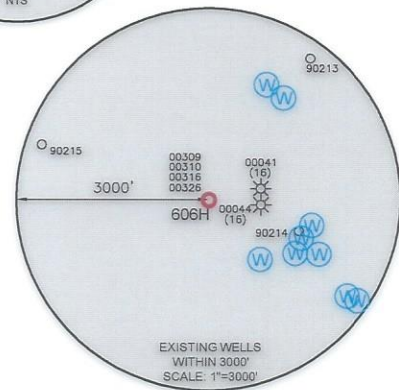
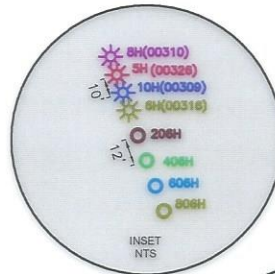
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,461,402.535 EASTING: 539,288.623
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,461,086.018 EASTING: 538,544.355
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,454,079.258 EASTING: 541,066.144

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



LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 65°38'34" W	1330.05'	SHL TO LANDMARK	2" IRON PIPE FOUND
L2	N 35°20'47" W	1056.99'	SHL TO LANDMARK	STONE FOUND
L4	S 19°20'28" E	116.19'	AZL1 TO AZL2	
L5	S 20°19'48" E	17.50'	AZL3 TO AZL4	

LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	S 66°57'41" W	2653.46'	3119.05'	SHL TO LP



WELL RESTRICTIONS

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

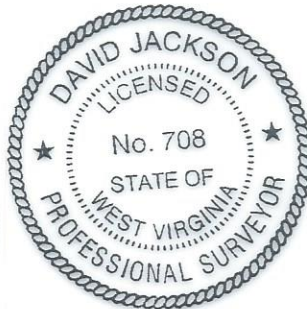
NOTES ON SURVEY

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

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

P.S. 708

David L Jackson



COMPANY: **SWN** **SWN** ^{R₂}/_A ^{V₊}/_{*}

Production Company, LLC Production Company™

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25034

MINIMUM DEGREE OF ACCURACY: 1/200

PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)

STATE OF WV DNR C BRK

OPERATOR'S WELL #: 606H

API WELL #: 47 009 00343 H6A

STATE COUNTY PERMIT

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

WATERSHED: NORTH FORK CROSS CREEK - CROSS CREEK (HUC-10) ELEVATION: 988.9'

DISTRICT: CROSS CREEK COUNTY: BROOKE QUADRANGLE: STEUBENVILLE EAST, WV

SURFACE OWNER: STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION ACREAGE: ±83.858

OIL & GAS ROYALTY OWNER: STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION ACREAGE: ±83.858

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: 3,324 TMD 91,165 TMD

05/17/2024

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

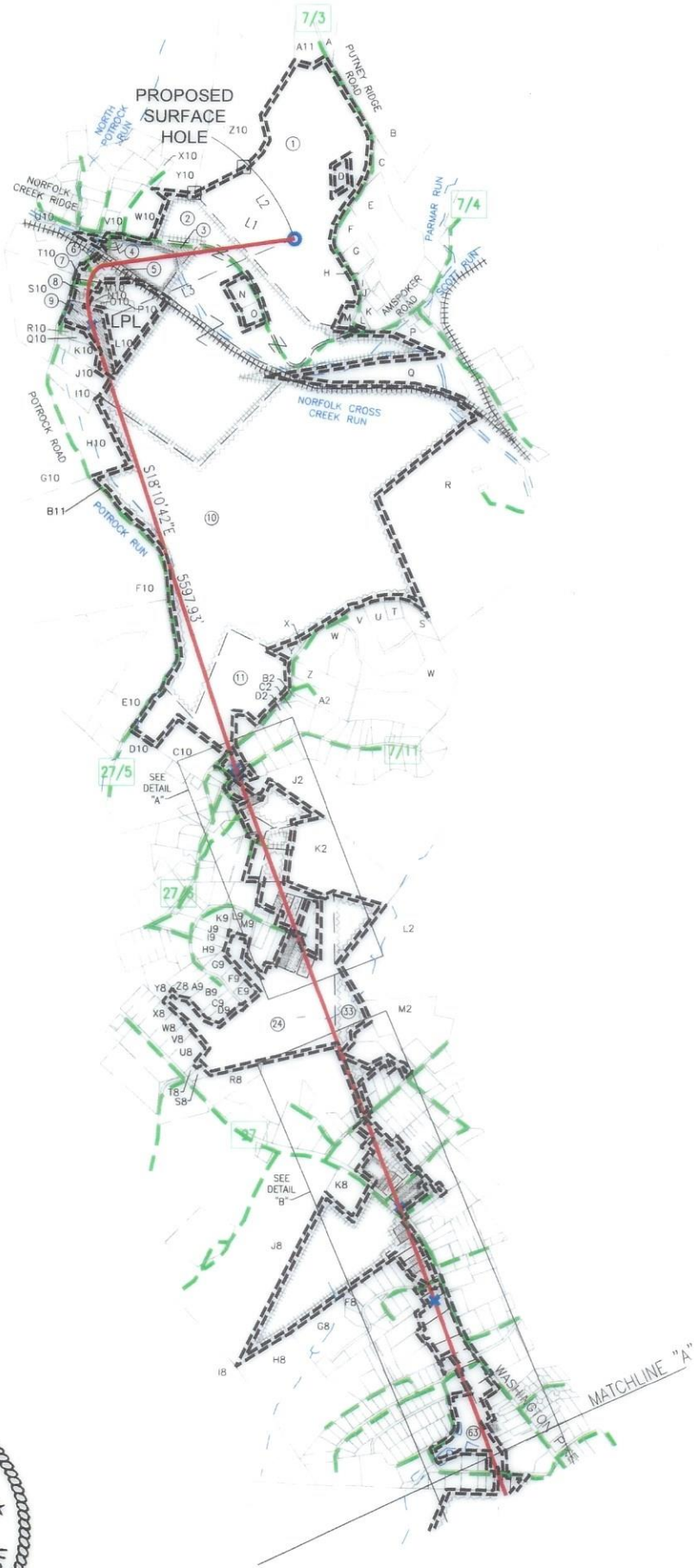
ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200

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

LEGEND:	PROPOSED SURFACE HOLE / BOTTOM HOLE	SURVEYED BOUNDARY	REVISIONS:	DATE: 04-08-2024
	EXISTING / PRODUCING WELLHEAD	DRILLING UNIT		
LPL	LANDING POINT LOCATION	LEASE BOUNDARY		DRAWN BY: N. MANO
	EXISTING WATER WELL	PROPOSED PATH		SCALE: 1" = 3000'
	EXISTING SPRING			DRAWING NO:
				WELL LOCATION PLAT

JACKSON SURVEYING
 INC.
 2413 EAST PIKE ST. # 112
 Clarksburg, WV 26302
 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.

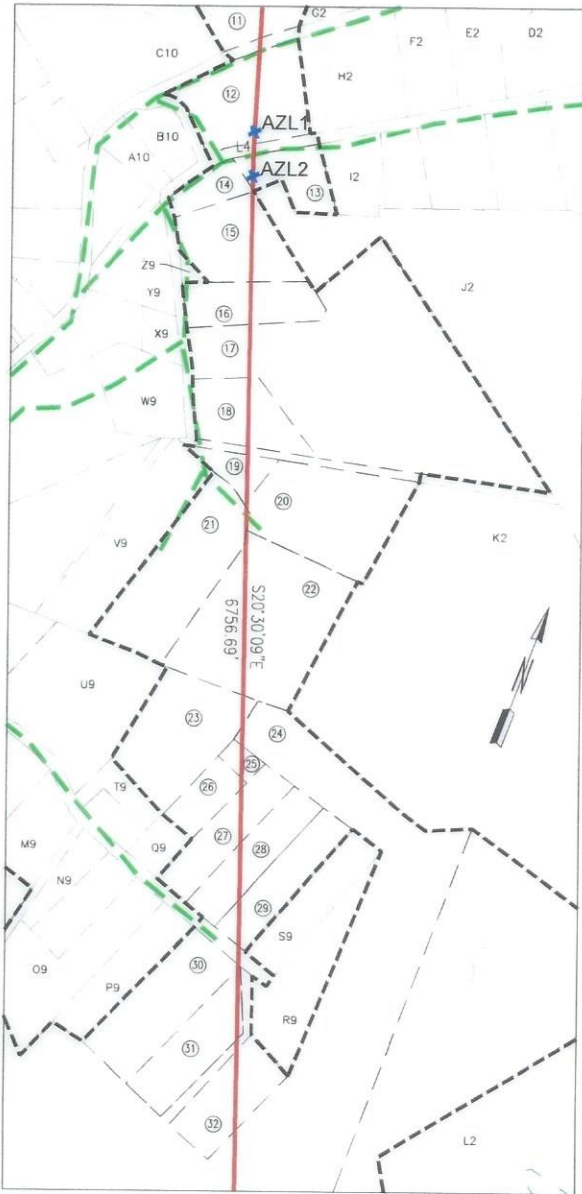
P.S. 708 *David L Jackson*

05/17/2024

REVISIONS:	COMPANY:		 	
	OPERATOR'S	STATE OF WV DNR C BRK	API:	DATE: 04-08-2024
	WELL #:	606H	47-009-	DRAWN BY: N. MANO
	DISTRICT:	CROSS CREEK	STATE:	SCALE: N/A
	COUNTY:	BROOKE	WV	DRAWING NO:
				WELL LOCATION PLAT 2

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

DETAIL "A"



DETAIL "B"



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*



05/17/2024

REVISIONS:	COMPANY:			DATE: 04-08-2024
	OPERATOR'S STATE OF WV DNR C BRK		API:	
	WELL #: 606H		47-009-	
	DISTRICT: CROSS CREEK	COUNTY: BROOKE	STATE: WV	
			DRAWN BY: N. MANO	
			SCALE: N/A	
			DRAWING NO:	
			WELL LOCATION PLAT 4	

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

WELL BORE TRACTS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	WEST VIRGINIA ST OF BUREAU OF COMM DIV OF NAT RES PB LD CORP (S/R)	4-CC20-6
2	WEST VIRGINIA ST OF BUREAU OF COMM DIV OF NAT RES PB LD CORP (S)	4-CC19-169
3	GALIANO LINDY L (S)	4-CC19-170
4	EVANGELINOS CONSTANTINE & TOULA (SURV) (S)	4-CC19-171
5	NORFOLK & WESTERN RAILWAY CO (S)	4-C19K-18
6	STEWART IRR TR 10/1/14 CARLON & BETTY TRUS (S)	4-CC19-172
7	THOMAS FLORENCE M (S)	4-CC19-173
8	CRAWFORD MARK A (S)	4-CC19-177
9	MOORE CHARLES D & CECELIA FAY (JTWS) (S)	4-CC19-180
10	WEST VIRGINIA ST OF BUREAU OF COMM DIV OF NAT RES PB LD CORP (S)	4-CC23-325
11	JOHNS ALBERT; GARY; GREGORY; MOORE TAMMY (S)	4-CC23-326
12	GOOCH JUDITH L (S)	4-CC23-370
13	LEMASTERS DONALD & JOYCE (S)	4-CC24-23
14	BRADLEY GEORGE L (S)	4-CC24-132
15	GOOCH JUDITH L (ETAL) (S)	4-CC24-49
16	KLAGES KEVIN W & LINDA K SURV (S)	4-CC24-51
17	KLAGES KEVIN W & LINDA K SURV (S)	4-CC24-52
18	ELBON JESSICA LEANN (S)	4-CC24-53
19	BENNETT JAMES DALE SR & STACIE LINN (S)	4-CC24-54
20	COOKE DOUGLAS B (S)	4-CC24-54.1
21	WHEAR DALE (S)	4-CC24-58
22	HAMRICK HAROLD DEWAYNE (S)	4-CC24-57
23	GILCHRIST BENNY L & TARA D (JTWS) (S)	4-CC24-65
24	VISYAK PATRICIA M (S)	4-CC24-83
25	GILCHRIST MICHAEL JR & ERIN (JTWS) (S)	4-CC24-67.2
26	GILCHRIST BENNY L & TARA D (JTWS) (S)	4-CC24-67.1
27	BUCY EVELYN (S)	4-CC24-68
28	BUCY CARMELLA RITA (S)	4-CC24-69
29	NICKOLES RUDY & FRANCES A (S)	4-CC24-70
30	LUNSFORD MICHAEL & DANIEL (S)	4-CC24-74
31	SMITH SCOTTIE O & CHRISTINE S (SURV) (S)	4-CC24-73
32	MITCHELL ROBERT & KIMBERLY (SURV) (S)	4-CC24-72
33	MALONEY CHARLES WAYNE & NANCY L (JTWS) (TOD) (S)	4-CC29-17
34	WOOD CHRISTOPHER & MISTY M (JTWS) (S)	4-CC29-10
35	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS (S)	BUCKEY HILL ROAD
36	EDGELL LOMAN C JR (S)	4-CC29-73
37	BAILEY DEBORAH L (S)	4-CC29-74
38	MILLER JESSE ANDREW (S)	4-CC29-82
39	FERGUSON WALTER & EDITH (S)	4-CC29-78
40	JEFFRIES DIANA (S)	4-CC29-79
41	JEFFRIES DIANA (S)	4-CC29-80
42	WARCHOLAK MEGHAN E (S)	4-CC29-81
43	BALLATO CHRISTOPHER & RUTH (SURV) (S)	4-CC29-93
44	BALLATO CHRISTOPHER & RUTH (SURV) (S)	4-CC29-94
45	BALLATO CHRISTOPHER & RUTH (SURV) (S)	4-CC29-95
46	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS (S)	WASHINGTON PIKE A/K/A STATE ROUTE 27
47	POTTER JAY M II; JOHN PAUL; SALVE' PENNY POTTER (S)	3-B29E-1
48	DAYTON-WHITLATCH AMITY LAEL (S)	3-B29E-2
49	RADICK RONALD R & CHRISTINE (SURV) (S)	3-B29E-3
50	COPPA SILVERIO G & DORIS E (SURV) (S)	3-B29E-4
51	MASON CAROLYN CHRISTINE (S)	3-B29E-5
52	MASON CAROLYN CHRISTINE (S)	3-B29E-6
53	MASON CAROLYN CHRISTINE (S)	3-B29E-7
54	DEVER BRANDON (S)	3-B29E-8
55	WILLIAMS MARJORIE J (TOD) (S)	3-B29E-9
56	WILLIAMS MARJORIE J (TOD) (S)	3-B29E-42
57	RIPLEY AMBER L (S)	3-B29E-31
58	RIPLEY AMBER L (S)	3-B29E-32
59	LORING RANDY L & JUDY A (SURV) (S)	3-B29E-33
60	ZIMMERMAN TONY E & MARY B (S)	3-B29E-36
61	MALOY SAMUEL L & LINDA S (SURV) (S)	3-B29E-37
62	SNYDER KARLI A; CONWAY DONALD SCOTT (S)	3-B29E-40
63	MCADOO TRAVIS C (S)	3-B29J-71
64	BAKER KEITH & KATHERINE A (SURV) (S)	3-B29J-70
65	CASTO LOUISE A (S)	3-B29K-14
66	CASTO LOUISE A (S)	3-B29K-15
67	DELATORE LOUIS & KAREN (SURV) (S)	3-B29-13.1
68	JONES ZACHARY & MICHELE (S)	3-B29-13
69	CHIVERS NORMA E CHIVERS ALAN J. ETAL (S)	3-B29-12
70	SANFORD HARRY E; NEELY CHATMAN L (SURV) (S)	3-B29-16
71	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS (S)	BEALLS RIDGE ROAD
72	HONE MARK A & LAUREN M JTWS (S)	3-B29-20
73	HONE MARK A & LAUREN M JTWS (S)	3-B29-19
74	HIGHLAND SPRINGS GOLF COURSE LLC (S)	3-B29-18
75	MITCHELL MELANIE (S)	3-B34-84
76	MITCHELL MELANIE ANN (S)	3-B34-83
77	ANKRUM ERIN C (ETAL) (S)	3-B34-81
78	FELTON DANIEL KEVIN (S)	3-B34-79
79	KOSCEVIC MICHAEL T & SHERYL A (SURV) (S)	3-B34-76
80	THOMAS CHAD K & HANNAH R JTWS (S)	3-B34-75
81	THOMAS CHAD K & HANNAH R JTWS (S)	3-B34-74
82	THOMAS CHAD K & HANNAH R JTWS (S)	3-B34-73
83	HANNAHS FREDERICK L (S)	3-B34-72
84	BROWNLEE LAND VENTURES LP (S)	3-B34-78
85	SHEERAN MARY L & CRAFT CUCARESE BEVERLY (S)	3-B34-67
86	APPALACHIA MIDSTREAM SERVICES LLC (S)	3-B34-66
87	HENSLER LOUIS W JR & MARGARET (S)	3-B34-57
88	MULLINS JOHN JR (S)	370-011-3.1

05/17/2024

REVISIONS:	COMPANY:	 		
	OPERATOR'S	STATE OF WV DNR C BRK	API:	DATE: 04-08-2024
	WELL #:	606H	47-009-	DRAWN BY: N. MANO
	DISTRICT:	CROSS CREEK	COUNTY:	SCALE: N/A
			STATE:	DRAWING NO:
			WV	WELL LOCATION PLAT 5

JACKSON SURVEYING



INC.

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

ADJOINING OWNERS TABLE			ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL	TRACT	SURFACE OWNER	TAX PARCEL
A	BREEN SUSAN D & DENNIS M	4-CC20-22	K4	MALINKY KEITH & KIM	3-B29-22
B	COLLIERS SPORTSMAN CLUB	4-CC20-21	L4	LANGHAM JONATHAN LANGHAM SARA F. (SURV)	3-B29-21
C	ROUSE WILLIAM MORGAN & DORIS J	4-CC20-20	M4	SONDA HAROLD S & SHIRLEY	3 B29 9
D	BLACK LINDY L	4-CC20-7	N4	SKYWATCHER LINDA TOD SKYWATCHER DANIEL (ETAL)	3 B29 23
E	GALIANO LINDY L &	4-CC20-19.1	O4	SHIDOCK ARLENE R	3-B29-8
F	CARTER EDWARD L & DEBORAH C JTWS	4-CC20-18	P4	HIGHLAND SPRINGS GOLF COURSE LLC	3-B29-7
G	CARTER EDWARD L	4-CC20-17	Q4	HIGHLAND SPRINGS GOLF COURSE LLC	3-B29-6
H	GALIANO ERIC T	4-CC20-16	R4	CONNOLLY BRIAN & TAMMY	4-CC29-219
I	GALIANO ERIC T	4-CC20-14	S4	RUDLAND JOHN	4-CC29-220
J	GALIANO ERIC T	4-CC20-19	T4	LYLE MONICA T	4-CC29-221
K	MCCONNELL KEVIN	4-CC20-11	U4	RASZ MICHAEL RAYMOND	4-CC29-221.1
L	MCCONNELL BARBARA J	4-CC20-10	V4	MINOR LISA M 2/3 & MARK MINOR 1/3	4-CC29-233
M	PRONCHIK SUSAN KAY	4-CC20-8	W4	L & M RENTALS LLC	4-CC29-234
N	BERNARDINI JUDITH ANN	4-CC20-9	X4	MILLS DARREN P	4-CC29-235
O	BERNARDINI MICHAEL LEE & JULIE LYNN	4-CC20-44	Y4	SMITH RYAN M & BROOKE N	370-007-1.1
P	NORFOLK & WESTERN RAILWAY CO	4-C248-29	Z4	HIGHLAND SPRINGS GOLF COURSE	370-007 6
Q	NICKOLES 3 LLC	4-CC24-33	A5	BROWNLEE LAND VENT LP	370-007-5
R	WEST VIRGINIA ST OF BUREAU OF COMM DIV OF NAT RES PB LD CORP	4-CC24-3	B5	BROWNLEE LAND VENT LP	370-011-4
S	CORK BRANDON & LORETTA SANCHEZ	4-CC24-8	C5	BROWNLEE LAND VENT	370-011-7
T	VAUGHN MARK F & LISA A (SURV)	4-CC24-9	D5	TAYLOR 2016 REVOC TRUST KENNETH LEE & ANN MARIE TRUSTEES	370-011-2
U	MIHLBAUER DAVID A & TERI L	4-CC24-10	E5	BROWNLEE LAND VENT LP	370-011-1
V	PETTRY OTTIS T	4-CC24-12	F5	HRIBAL WILLIAM E & KAREN L	370-011-3
W	CROSS RAYMOND S DENNIS P & BUTLER KATHRYN R	4-CC24-13	G5	GRIZZEL STEPHEN S	3 B34 58
X	CZESZYCKI JOSEPH P & TOM METZ	4-CC24-6	H5	BROWNLEE ANDREA GEORGETTI	370-012-1
Y	BAIRD WILLIAM C & CYNTHIA L (SURV)	4-CC24-5	I5	WITHERS TAMMY M	3-B39-4
Z	LYNCH THERESA ANN (LE-CHARLES & ELLEN THORNE	4-CC24-16	J5	LION ROYALTY LLC	3-B39-3
A2	COLLINS RANDY L JR & AMY R (SURVIVORSHIP)	4-CC24-17	K5	HUDSON RICKY VON	3-B39-2
B2	COLLINS RANDY L JR & AMY R (SURVIVORSHIP)	4-CC24-18	L5	MINOR MARK W MINOR KEVIN L ETAL	3-B34-50
C2	LICHT JANICE	4-CC24-19	M5	MINOR KEVIN L & RULETTA R (SURV)	3-B34-50.1
D2	JOHNSON KATHY L	4-CC24-19.1	N5	MINOR KEVIN L & RULETTA K (JTWS)	3-B34-57.4
E2	KISNER EUGENE WILFRED & CYNTHIA KAY	4-CC24-20	O5	HENSLER LOUIS W JR & MARGARET R (SURV)	3-B34-57.3
F2	HUNTER DIXIE DARE (TOD) HUNTER ROBERT ANDREW	4-CC24-21	P5	HENSLER LOUIS W JR & MARGARET	3-B34-55
G2	MOORE FAMILY REV LIVING TRUST TRUS-RICHARD & TAMMY MOORE	4-CC24-4	Q5	ROADMAN WILLIAM W & PAULA L (SURVIVORSHIP)	3-B34-56
H2	GEORGETTI RANDY V & TAMMYS (SURV)	4-CC24-22	R5	MENEELY IRREV TRUST 7/22/16 LEA & CLEA	3-B34-42
I2	FIGUEROA KAIA	4-CC24-24	S5	MENEELY IRREV TRUST 7/22/16 LEE & CLEA	3 B34 41
J2	BRADLEY GEORGE L	4-CC24-55	T5	HUFF MICHAEL	3-B34-40
K2	STEVENS JOHN & LINDA	4-CC24-56	U5	GADD WILLIAM MATTHEW & BARBARA ESTELLE (SURV)	3-B34-39
L2	SMITH DEAN	4-CC24-99	V5	MAZZELLA ERIC	3-B34-38
M2	HEFFNER TERRI	4-CC24-84	W5	SCHIDEK COREY J SIGNET DARIAN A	3-B34-37
N2	HENTHORN CHRIS A & VALERIE JUNE (SURV)	4-CC29-18	X5	SCHIDEK COREY J SIGNET DARIAN A	3-B34-36
O2	SOBOTA WOODROW RYAN ASHLEY R (JTWS)	4-CC29-17.1	Y5	WALES WILLIAM J & MARSHA E	3 B34 59
P2	SKAGGS PAUL E III	4-CC29-20	Z5	WALES WILLIAM J & MARSHA E (SURV)	3-B34-57.2
Q2	WOOD DAVID LACY	4-CC29-67	A6	APPALACHIA MIDSTREAM SERVICES LLC	3-B34-60
R2	MALONEY CHARLES W & NANCY L (JTWS) (TOD)	4-CC29-16	B6	DIGHT KENNETH W & BRENDA D (SURV)	3-B34-61
S2	MCCONNAUGHY COLIN J HONE MORGAN (JTWS)	4-CC29-15	C6	DIGHT KENNETH W & BRENDA D	3-B34-62
T2	PHILLIPS MARK A	4-CC29-13	D6	DIGHT KENNETH W & BRENDA	3-B34-63
U2	MALONEY CHARLES WAYNE & NANCY L (SURV) (TOD)	4-CC29-12	E6	BRINKLEY JUDITH LEE STENGER SARAH A: BUYAN MARK A	3 B34 10
V2	WOOD CHRISTOPHER & MISTY M (JTWS)	4-CC29-11	F6	APPALACHIA MIDSTREAM SERVICES LLC	3-B34-64
W2	OBENRADER NIKOLAI A & COURTNEY J JTWS	4-CC29-72	G6	APPALACHIA MIDSTREAM SERVICES LLC	3-B34-65
X2	OBENRADER NIKOLAI A & COURTNEY J JTWS	4-CC29-71.1	H6	WINTERS SHIRLEY (TOD) WINTERS ROBERT G (ETAL)	3-B34-68
Y2	SCHWERTFEGER MARK THOMAS & MARCIA KAY	4-CC29-84	I6	SONDA RICHARD L & SONDA HAROLD	3-B34-69
Z2	PIQUETTE WAYNE & CHERYL (SURV)	4-CC29-83	J6	HANNAHS FREDERICK L	3-B34-70
A3	DONLEY KAREN J	4-CC29-95.1	K6	HANNAHS FREDERICK L	3 B34 71
B3	RIGGS RONALD	4-CC29-100	L6	LOWERY DEVIN J & LOWERY NICOLE (JTWS)	3 B34 7.11
C3	RIGGS RONALD	4-CC29-99	M6	HUNT WILLIAM CURTIS & SUSAN L (SURV) (TOD) SCOTT KRISTEN E	3 B34 7
D3	PARR GARY A & JACQUELINE (SURV)	4-CC29-97	N6	HORNER BRADLEY A & SHARON A (SURV)	3-B34-6
E3	PARR GARY A & JACQUELINE	4-CC29-96	O6	HIGHLAND SPRINGS GOLF COURSE LLC	3-B34-80
F3	BALLATO CHRISTOPHER A & RUTH V (SURV)	4-CC29-98	P6	JACKSON LYLE A	3-B34-82
G3	RUGGIERI MICHAEL J	4-CC29-100.2	Q6	EBERHART WILLIAM F & MARY D JTWS	3 B34 5
H3	RUGGIERI MICHAEL	4-CC29-100.1	R6	HUNT WILLIAM CURTIS & SUSAN L (SURV) (TOD) SCOTT KRISTEN E	3-B34-7
I3	MASON CAROLYN CHRISTINE	4-CC29-101	S6	PAULL CHRISTOPHER J & MARY ELLEN (SURV)	3 B34 4
J3	CONLEY RONALD K & PEGGY L	4-CC29-102	T6	PAULL CHRISTOPHER J & MARY E (SURVIVORSHIP)	3-B34-3
K3	CONLEY BRIAN	4-CC29-103	U6	PAULL CHRISTOPHER J & MARY ELLEN (SURV)	3-B29-15.2
L3	GRIZZEL STEPHEN S & RENEE L (SURV)	4-CC29-112	V6	DIAMOND JANA L	3-B29-15.1
M3	RIGGLE JESSE D & CALANDRA K (JTWS)	4-CC29-118	W6	SANFORD HARRY E; NEELY CHATMAN L (SURV)	3 B29 15
N3	CAMPBELL ERIC WILLIAM	4-CC29-119.1	X6	SANFORD HARRY E NEELY CHATMAN L (SURV)	3-B34-2
O3	CAMPBELL ERIC WILLIAM	4-CC29-119	Y6	HUNT WILLIAM C & SUSAN L (JTWS) (TOD) SCOTT KRISTEN E	3 B34 10.2
P3	BURCH CHRISTOPHER	4-CC29-120.1	Z6	WASHINGTON PIKE PUBLIC SERVICE	3-B29-17
Q3	BURCH CHRISTOPHER	4-CC29-120	A7	SMITH KEITH & KATHY	3-B34-16.1
R3	BARTZ RICKEY J & BONNIE LOU (SURVIVORSHIP)	4-CC29-151	B7	PARK & RECREATION COMMISSION	3-B29-14
S3	KOWCHECK TERRI	4-CC29-152	C7	NIXON N STEVE & JILL (SURV)	3-B29-64
T3	MCADOO TRAVIS C	3-B29-72	D7	MCCONAUGHEY JOHN P	3-B29-65
U3	DIGIACINTO MARGARET L (SURV) TUD	3-B29K-1	E7	SPURRIER DISCHMOND & AMY EILEEN	3-B29-66
V3	DIGIACINTO AMIE D	3-B29K-2	F7	SPURRIER DISCHMOND & AMY EILEEN	3-B29K-13
W3	GEORGETTI SHIRLEY ANN	3-B29K-6	G7	SHAFFER RAYMOND L & ESTELLE M	3-B29-67
X3	STROPE AARON H & BETH A (SURV)	3-B29K-9	H7	KLICK DAVID	3-B29-68
Y3	SMITH RONALD E & NANCY L (SURV)	3-B29K-10	I7	GASTON JACQUELINE A	3 B29 69
Z3	GEORGETTI SHIRLEY; BROWNLEE LAND VENTURES LP	3-B29K-11	J7	HERVEY RUSSEL D HUKILL BRITTANY (SURV)	3-B29-61
A4	JONES ZACHARY & MICHELE	3-B29K-18	K7	BEATTY DEREK A	3 B29 60
B4	JONES ZACHARY & MICHELE	3-B29K-17.1	L7	MUSHET ALEC & DARLA A (SURV)	3-B29-55
C4	STEWART JAMES & PAMELA	3-B29K-19	M7	MUSHET DARLA ANN & ALEC (SURV)	3-B29-54
D4	STEWART JAMES H & PAMELA J (SURV)	3-B29K-20	N7	MUSHET DARLA ANN & ALEC (SURV)	3-B29-53
E4	CECCHINI MELANIE A	3-B29K-21	O7	NIEMAN HEIDI B	3 B29 42
F4	FALBO PENNY	3-B29K-22	P7	SHANE MICHAEL A & GERI E (SURV)	3-B29-39
G4	FALBO PENNY	3-B29K-23	Q7	MCADOO TRAVIS C	3-B29-40
H4	ROBERSON CHARLES M & DOROTHY	3-B29-5	R7	SNYDER KARLI A & CONAWAY DONALD SCOTT	3 B29E 41
I4	SONDA HAROLD S & SHIRLEY J	3-B29-10	S7	KOPKO WALTER J II & LIGGETT SUNNIE R (JTWS)	3-B29-8
J4	CHIVERS NORMA E TOD CHIVERS ALAN J ETAL	3-B29-11	T7	WOODSTUFF MICHAEL A & DEBORAH L (JTWS)	3-B29E-38
			U7	WOODSTUFF MICHAEL A	3-B29E-35
			V7	LORING RANDY L & JUDY A (SURV)	3-B29E-34

*Highlighted Parcels may be impacted during drilled.

05/17/2024

REVISIONS:	COMPANY:	 	
	OPERATOR'S	STATE OF WV DNR C BRK	API:
	WELL #:	606H	47-009-
	DISTRICT:	CROSS CREEK	STATE:
	COUNTY:	BROOKE	WV
			DATE: 04-08-2024
			DRAWN BY: N. MANO
			SCALE: N/A
			DRAWING NO:
			WELL LOCATION PLAT 6

JACKSON SURVEYING

INC.

2413 EAST PIKE ST. # 112



Clarksburg, WV 26302

304-623-5851

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
W7	LORING RANDY L & JUDY A	3-B29E-27
X7	WATERS SANDRA C (LIFE ESTATE WATER HELEN C)	3-B29E-30
Y7	SALVINI MATTHEW J	3-B29E-12
Z7	SALVINI MATTHEW J	3-B29E-11
A8	WILLIAMS MARJORIE J (TOD)	3-B29E-10
B8	RIGGS DAVID & PATTI J (SURV)	3-B29E-13
C8	DEMARK GREG C	3-B29E-14
D8	DEMARK GREGORY C	3-B29E-15
E8	TAYLOR RICHARD W & TERESA R (SURV)	3-B29E-16
F8	GIBSON EDWARD R & JOYCE C SURV	3-B29E-17
G8	CARUSO ELIZABETH A	3-B29E-19
H8	RADVANSKY JOHN GABRIEL	3-B29J-7
I8	PARK & RECREATION COMMISSION	3-B28-65
J8	PARK & RECREATION COMMISSION	3-B28-66
K8	FREE METHODIST CHURCH	3-B29-4
L8	FERGUSON JASON G	4-CC29-77
M8	FERGUSON JASON G	4-CC29-76
N8	FERGUSON JASON G	4-CC29-75
O8	WOOD CHRISTOPHER D & WOOD MISTY M (SURV)	4-CC29-8
P8	WOOD CHRISTOPHER D WOOD MISTY M (SURV)	4-CC29-9
Q8	WOOD DAVID D & ANNA E (SURV)	4-CC29-6
R8	FRANKLIN METHODIST CHURCH	4-CC28-10
S8	LANCASTER DAVID	4-CC28-9
T8	LANCASTER DAVID	4-CC28-8
U8	ARBOGAST WILLIAM & GRACIE E	4-CC28-7
V8	CHARLESWORTH DOUG & ADELIN (SURV)	4-CC28-6
W8	SAUNDERS JEFFREY S	4-CC23-420
X8	GASCHLER ROBERT J & KERRY L (SURVIVORSHIP)	4-CC23-419
Y8	GROCH IMOGENE RUTH	4-CC23-402
Z8	FLUHARTY RODNEY JAY	4-CC23-400
A9	FLUHARTY RODNEY JAY	4-CC23-399
B9	FLUHARTY RODNEY JAY	4-CC23-398
C9	SMITH CHRIS L	4-CC23-397
D9	SMITH CHRIS L	4-CC23-396
E9	CRAFT DOROTHY R	4-CC24-82
F9	COE STEVEN B; VIRGIL; GLEN JR; STACKPOLE DIANNE ETAL	4-CC23-395
G9	STILL JAMES L & BRENDA K (ETAL)	4-CC23-394
H9	MC MILLAN STACEY M	4-CC23-392
I9	CARBASHO FRANK E	4-CC23-391
J9	CARBASHO FRANK E	4-CC23-390
K9	CERCONE JAMES A; BATTAGLIA NANCY K SURV (LE-NANCY CERCONE)	4-CC23-389
L9	JONES RONNIE LEE JR	4-CC24-81
M9	WILSON CLINT	4-CC24-80
N9	MOZINGO JEFFREY ALLEN	4-CC24-78
O9	CRUPE KIMBERLY	4-CC24-76
P9	LUNSFORD MICHAEL & DANYIEL	4-CC24-75
Q9	MITCHELL ROBERT C & KIMBERLY A (SURV)	4-CC24-83.1
R9	NICKOLES RUDY & FRANCES	4-CC24-71
S9	GILCHRIST MICHAEL JR & ERIN (JTWS)	4-CC24-67
T9	GILCHRIST MICHAEL W SR & THERESA L (SURV)	4-CC24-65.1
U9	BURNS JAMES & SHARON (SURV)	4-CC24-63
V9	WADE MICHAEL DAVID	4-CC24-59
W9	JOSEPH MARGARET A	4-CC24-61
X9	VINCENT GEORGIA	4-CC24-62
Y9	SIX CRAIG A TRACIE (JTWS)	4-CC23-375
Z9	KLAGES KEVIN W & LINDA K SURV	4-CC24-50
A10	SMITH VIRGINIA L	4-CC23-373
B10	SMITH VIRGINIA	4-CC23-372
C10	SULLIVAN ARTHUR E JR	4-CC23-368
D10	SILVER CHARLES; HALSTEAD DONNA LIVINGOOD SHERRY (1/3)	4-CC23-327
E10	THOMPSON DEBRA J	4-CC23-320
F10	BARONIO CURTIS R & DONNA J	4-CC23-321
G10	COOK FAMILY REVOCABLE TRUST 4/20/17, MALSON SUSAN A	4-CC23-322
H10	MENEELY BOBBIE JO; MINICH RANDALL	4-CC23-324
I10	CARBASHO THOMAS & CALDWELL TINA	4-CC23-323
J10	POWER ADRIAN ELIZABETH & EMIL JAMES LOPPE (JTWS)	4-CC19-185
K10	HEINZEROTH CHARLES & CYNTHIA L (JTWS)	4-CC19-184
L10	EDGELL ROSA MARIE	4-CC19-176
M10	KASPER PAUL & MITCHELL JENNIFER (JTWS)	4-CC19-174
N10	EDGELL ROSA MARIE	4-CC19-178
O10	JOHNSON EDWARD & DOROTHY	4-CC19-179
P10	WILSON NORMA	4-CC19-175
Q10	MOORE CHARLES D & CECELIA FAY (JTWS)	4-CC19-182
R10	ERDMAN PAULINE A	4-CC19-181
S10	BLACK CLARENCE T JR & TAMMY L	4-CC19-186
T10	NOGA CODIE L & KATRINA MILLER	4-CC19-187
U10	D'AGOSTINO PETER	4-CC19-188
V10	NICKOLES GREGORY; RANDY; JEFFRE (LE-DANNY & GRACE NICKOLES)	4-CC19-160
W10	BAKER DAVID	4-CC19-164
X10	EMMERTH DOUGLAS P & PAMELA L JTWS	4-CC19-165
Y10	STATE OF WEST VIRGINIA BUREAU OF COMMERCE DIV OF NAT RESOURC	4-CC19-168
Z10	LANGEVIN GRETCHEN MOORE WESBANCO BANK INC	4-CC20-5
A11	MILLER JOHN ERNEST, JESSE ANDREW (SURV)	4-CC20-4
B11	STATE OF WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS	POT ROCK ROAD

*Highlighted Parcels may be impacted during drilled.

05/17/2024

REVISIONS:	COMPANY:		
			
	OPERATOR'S STATE OF WV DNR C BRK	API:	DATE: 04-08-2024
	WELL #: 606H	47-009-	DRAWN BY: N. MANO
	DISTRICT: CROSS CREEK	COUNTY: BROOKE	SCALE: N/A
		STATE: WV	DRAWING NO:
			WELL LOCATION PLAT 7

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

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
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**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

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

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

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

Well Operator: SWN Production Company, LLC.
 By: Cooper Farish, CPL
 Its: Staff Landman



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Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN
1	4-CC20-6	730135\000	Starvaggi Industries, Incorporated	Fortuna Energy Inc. Range Resources - Appalachia, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	9/532 10/226 10/541 30/480	0.00%
2	4-CC19-169	748394\009	Ridgetop Appalachia LLC	SWN Production Company, LLC	18.00%	45/169	0.00%
3	4-CC19-170	Pending	Lindy L. Galiano	SWN Production Company, LLC	18.00%	64/648	0.00%
4	4-CC19-171	750426\000	Toula Evangelinos, widow	SWN Production Company, LLC	18.00%	56/37	0.00%
5	4-C19K-18	749423\000	Wheeling & Lake Erie Railway Company	SWN Production Company, LLC	18.00%	53/702	0.00%
6	4-CC19-172	Pending	The Carlon and Betty Stewart Irrevocable Trust dated October 01, 2014	SWN Production Company, LLC	18.00%	64/274	0.00%
7	4-CC19-173	Pending	Paul Thomas, single	SWN Production Company, LLC	18.00%	64/539	0.00%
8	4-CC19-177	731455\000	Mark A. Crawford, single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	11/436 30/480	0.00%
O10	4-CC19-179	Pending	Rosa Marie Edgell, a widow	SWN Production Company, LLC	18.00%	64/737	0.00%
N10	4-CC19-178	Pending	Rosa Marie Edgell, a widow	SWN Production Company, LLC	18.00%	64/256	0.00%
9	4-CC19-180	729697\000	John L. Moore, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	11/78 30/480	0.00%
K10	4-CC19-184	734171\0000	Charles Heinzerth, a single man	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	17/584 30/480	0.00%

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J10	4-CC19-185	736344\000	Judith Ann Moore, a single woman	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	18/783 30/480	0.00%
10	4-CC23-325	Pending	Golden Eagle Resources II, LLC	SWN Production Company, LLC	18.00%	435/140	0.00%
	Pot Rock Road	735274\000	West Virginia Department of Transportation, Division of Highways	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	29/95 30/480	0.00%
11	4-CC23-326	736581\001	Gary Johns, a married man dealing his sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.50%	20/245 30/480	0.00%
		736581\002	Tammy Moore, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.50%	20/240 30/480	0.00%
		736581\003	Gregory Johns, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.50%	20/250 30/480	0.00%
		736581\004	Albert D. Johns Jr, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.50%	20/277 30/480	0.00%
12	4-CC23-370	736725\000	Judith L. Gooch, a single woman	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	21/9 30/480	0.00%
13	4-CC24-23	783758\000	Donald Lemasters and Joyce Lemasters, husband and wife	SWN Production Company, LLC	18.00%	62/500	0.00%
J2	4-CC24-55	728197\000	Jacob Wright, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	10/568 30/480	0.00%
14	4-CC24-132	784020\000	Jacob R. Wright, married, dealing in his separate property	SWN Production Company, LLC	18.00%	62/650	0.00%
15	4-CC24-49	736379\000	William Mitchell, Jr., and Mary E. Mitchell, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	18/762 30/480	0.00%
16	4-CC24-51	736262\000	Kevin W. Klages and Linda K. Klades, husband and wife	Chesapeake Exploration, L.L.C. SWN Production Company, LLC	18.00%	18/462 30/480	0.00%
17	4-CC24-52	736262\000	Kevin W. Klages and Linda K. Klades, husband and wife	Chesapeake Exploration, L.L.C. SWN Production Company, LLC	18.00%	18/462 30/480	0.00%

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✓18	4-CC24-53	731596\000	Paulette J. Morris, widow	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	12/58 30/480	0.00%
✓19	4-CC24-54	736336\000	James Dale Bennett, Sr. and Stacie Linn Bennett, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	18/766 30/480	0.00%
✓20	4-CC24-54.1	746518\000	Douglas B. Cooke, a single man	SWN Production Company, LLC	16.00%	34/228	0.00%
✓21	4-CC24-58	736207\000	Dale A. Whear and Laura Whear, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	18/21 30/480	0.00%
✓22	4-CC24-57	736601\000	Harold Dewayne Hamrick, a single man	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	20/213 30/480	0.00%
✓23	4-CC24-65	736664\000	Michael W. Gilchrist, Sr. and Thresea L. Gilchrist, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	20/723 30/480	0.00%
✓24	4-CC24-83	735910\000	Dale E. Visyak and Patricia M. Visyak, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	16/542 30/480	0.00%
		748382\001	Matthew H. Fair and Robin C. Fair, husband and wife	SWN Production Company, LLC	18.00%	40/411	0.00%
✓Q8	4-CC29-6	748382\002	Susan S. Fair, f/k/a Susan Fair Bruffy, a divorced woman	SWN Production Company, LLC	18.00%	40/389	0.00%
		748382\003	Debra R. Cyphert and Robert Cyphert, wife and husband	SWN Production Company, LLC	18.00%	40/400	0.00%
✓25	4-CC24-67.2	736664\000	Michael W. Gilchrist, Sr. and Thresea L. Gilchrist, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	20/723 30/480	0.00%
✓26	4-CC24-67.1	736664\000	Michael W. Gilchrist, Sr. and Thresea L. Gilchrist, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	20/723 30/480	0.00%
✓27	4-CC24-68	736567\000	Evelyn Bucy, a single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	20/171 30/480	0.00%
✓28	4-CC24-69	736583\000	Rita M. Bucy, a/k/a Carmella Mazzafo, a widow	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	20/259 30/480	0.00%

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29	4-CC24-70	783747\000	Rudy Nickoles and Frances A. Nickoles, husband and wife	SWN Production Company, LLC	18.00%	62/470	0.00%
R9	4-CC24-71	783747\001	Rudy Nickoles and Frances A. Nickoles, husband and wife	SWN Production Company, LLC	18.00%	62/470	0.00%
Q9	4-CC24-83.1	778672\000	Robert C. Mitchell and Kimberly A. Mitchell	SWN Production Company, LLC	18.00%	62/384	0.00%
30	4-CC24-74	737791\000	Michael Lunsford and Danyiel Lunsford, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	24/562 30/480	0.00%
31	4-CC24-73	737794\000	Scottie O. Smith and Christine S. Smith, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	24/557 30/480	0.00%
32	4-CC24-72	737898\000	Dale E. Visyak and Patricia M. Visyak, his wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	25/122 30/480	0.00%
33	4-CC29-17	783258\000	Master Mineral Holdings, II, L, by and through in General Partner, PBEX Resources, LLC	SWN Production Company, LLC	18.00%	62/152	0.00%
O2	4-CC29-17.1	778626\000	Heather Dawn Hanna, divorced	SWN Production Company, LLC	18.00%	62/333	0.00%
34	4-CC29-10	778605\000	Sheila E. Maloney, divorced	SWN Production Company, LLC	18.00%	62/239	0.00%
W2	4-CC29-72	Pending	Nickolai A. Obenrader and Courtney J. Obenrader, husband and wife	SWN Production Company, LLC	18.00%	64/696	0.00%
35	Buckeys Hill Road, a/k/a Buckey Hill Road	Pending	West Virginia Department of Transportation, Divisic	SWN Production Company, LLC	20.00%	65/272	0.00%
36	4-CC29-73	Pending	Nickolai A. Obenrader and Courtney J. Obenrader, husband and wife	SWN Production Company, LLC	18.00%	64/696	0.00%

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37	4-CC29-74	Pending	Deborah Bailey, divorced	SWN Production Company, LLC	18.00%	64/414	0.00%
			748382\001 Matthew H. Fair and Robin C. Fair, husband and wife	SWN Production Company, LLC	18.00%	40/411	0.00%
38	4-CC29-82		748382\002 Susan S. Fair, f/k/a Susan Fair Bruffy, a divorced woman	SWN Production Company, LLC	18.00%	40/389	0.00%
			748382\003 Debra R. Cyphert and Robert Cyphert, wife and husband	SWN Production Company, LLC	18.00%	40/400	0.00%
39	4-CC29-78		748526\000 Walter L. Ferguson and Edith J. Ferguson, husband and wife	SWN Production Company, LLC	12.50% 18.00%	46/93	0.00%
40	4-CC29-79	Pending	Diana Jeffries and Roger Jeffries, wife and husband	SWN Production Company, LLC	18.00%	65/19	0.00%
41	4-CC29-80	Pending	Diana Jeffries and Roger Jeffries, wife and husband	SWN Production Company, LLC	18.00%	65/19	0.00%
42	4-CC29-81	Pending	Meghan E. Warcholak, single	SWN Production Company, LLC	18.00%	64/636	0.00%
43	4-CC29-93		749013\000 Christopher A. Ballato, aka Christopher Ballato and Ruth V. Ballato, aka, Ruth Ballato	SWN Production Company, LLC	18.00%	50/9	0.00%
44	4-CC29-94		749013\000 Christopher A. Ballato, aka Christopher Ballato and Ruth V. Ballato, aka, Ruth Ballato	SWN Production Company, LLC	18.00%	50/9	0.00%
45	4-CC29-95		749013\000 Christopher A. Ballato, aka Christopher Ballato and Ruth V. Ballato, aka, Ruth Ballato	SWN Production Company, LLC	18.00%	50/9	0.00%
F3	44-CC29-98		749013\000 Christopher A. Ballato, aka Christopher Ballato and Ruth V. Ballato, aka, Ruth Ballato	SWN Production Company, LLC	18.00%	50/9	0.00%

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✓ 46	Washington Pike (a/k/a State Route 27)	Pending	West Virginia Department of Transportation, Division of Highways	SWN Production Company, LLC	20.00%	65/269	0.00%
		747650\001	Jay M. Potter, a married man, dealing herein with his separate property	SWN Production Company, LLC	18.00%	39/282	0.00%
✓ 47	3-B29E-1	747650\005	John P. Potter, married, dealing with his separate property	SWN Production Company, LLC	18.00%	42/302	0.00%
		747650\002	Penny Potter Sauve', a married woman, dealing herein with her separate property	SWN Production Company, LLC	18.00%	39/267	0.00%
✓ 48	3-B29E-2	748248\000	David A. Dayton and Amity Whitlatch-Dayton, his wife	SWN Production Company, LLC	18.00%	44/611	0.00%
✓ 49	3-B29E-3	748437\000	Christine Radick, a widow	SWN Production Company, LLC	18.00%	47/375	0.00%
✓ 50	3-B29E-4	748563\000	Silverio G. Coppa and Doris E. Coppa husband and wife	SWN Production Company, LLC	18.00%	44/591	0.00%
✓ 51	3-B29E-5	Pending	Nancy Hillegas	SWN Production Company, LLC	18.00%	64/749	0.00%
✓ 52	3-B29E-6	747722\000	Carolyn Christine Mason, a widow	SWN Production Company, LLC	18.00%	64/118	0.00%
✓ 53	3-B29E-7	747722\000	Carolyn Christine Mason, a widow	SWN Production Company, LLC	18.00%	64/118	0.00%
✓ 54	3-B29E-8	747659\000	Lynne Erin Brownlee, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18.00%	41/657	0.00%
✓ 55	3-B29E-9	Pending	Marjorie J. Williams, a widow	SWN Production Company, LLC	18.00%	64/158	0.00%
✓ 56	3-B29E-42	Pending	Marjorie J. Williams, a widow	SWN Production Company, LLC	18.00%	64/672	0.00%

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✓ 57	3-B29E-31	748717\000	Amber L. Ripley, a single woman	SWN Production Company, LLC	18.00%	46/376	0.00%
✓ 58	3-B29E-32	748717\000	Amber L. Ripley, a single woman	SWN Production Company, LLC	18.00%	46/376	0.00%
✓ 59	3-B29E-33	778619\000	Randy L. Loring and Judy A. Loring, husband and wife	SWN Production Company, LLC	14.00%	62/315	0.00%
✓ 60	3-B29E-36	Pending	Tony E. Zimmerman, a widower	SWN Production Company, LLC	18.00%	65/79	0.00%
		Pending	Samuel L. Maloy and Linda S. Maloy, husband and wife	SWN Production Company, LLC	18.00%	65/287	0.00%
✓ 61	3-B29E-37	748492\001	Carolyn M. Funk Carr, a widow	SWN Production Company, LLC	17.00%	45/748	0.00%
		748492\002	Hallie V. Funk Leach, a married woman, dealing herein with her separate property	SWN Production Company, LLC	17.00%	45/755	0.00%
		748492\003	Robert C. Funk, married man, dealing herein with this separate property	SWN Production Company, LLC	17.00%	45/762	0.00%
		748492\001	Carolyn M. Funk Carr, a widow	SWN Production Company, LLC	17.00%	45/748	0.00%
✓ R7	3-B29E-41	748492\002	Hallie V. Funk Leach, a married woman, dealing herein with her separate property	SWN Production Company, LLC	17.00%	45/755	0.00%
		748492\003	Robert C. Funk, married man, dealing herein with this separate property	SWN Production Company, LLC	17.00%	45/762	0.00%
✓ 62	3-B29E-40	783751\000	Donald Scott Conaway and Karli A. Conaway, husband and wife	SWN Production Company, LLC	18.00%	62/452	0.00%
		748492\001	Carolyn M. Funk Carr, a widow	SWN Production Company, LLC	17.00%	45/748	0.00%
✓ Q7	3-B29J-40	748492\002	Hallie V. Funk Leach, a married woman, dealing herein with her separate property	SWN Production Company, LLC	17.00%	45/755	0.00%

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		748492\003	Robert C. Funk, married man, dealing herein with this separate property	SWN Production Company, LLC	17.00%	45/762	0.00%
		748492\001	Carolyn M. Funk Carr, a widow	SWN Production Company, LLC	17.00%	45/748	0.00%
/63	3-B29J-71	748492\002	Hallie V. Funk Leach, a married woman, dealing herein with her separate property	SWN Production Company, LLC	17.00%	45/755	0.00%
		748492\003	Robert C. Funk, married man, dealing herein with this separate property	SWN Production Company, LLC	17.00%	45/762	0.00%
/T3	4-B29J-72	749041\001	George K. Kotch and Margaret Helen Kotch, husband and wife	SWN Production Company, LLC	16.00%	50/379	0.00%
/64	3-B29J-70	748911\000	Keith K. Baker and Katherine A. Baker, husband and wife	SWN Production Company, LLC	18.00%	50/145	0.00%
		748492\001	Carolyn M. Funk Carr, a widow	SWN Production Company, LLC	17.00%	45/748	0.00%
/G7	3-B29J-67	748492\002	Hallie V. Funk Leach, a married woman, dealing herein with her separate property	SWN Production Company, LLC	17.00%	45/755	0.00%
		748492\003	Robert C. Funk, married man, dealing herein with this separate property	SWN Production Company, LLC	17.00%	45/762	0.00%
/		748492\001	Carolyn M. Funk Carr, a widow	SWN Production Company, LLC	17.00%	45/748	0.00%
F7	3-B29K-13	748492\002	Hallie V. Funk Leach, a married woman, dealing herein with her separate property	SWN Production Company, LLC	17.00%	45/755	0.00%
		748492\003	Robert C. Funk, married man, dealing herein with this separate property	SWN Production Company, LLC	17.00%	45/762	0.00%
		748492\001	Carolyn M. Funk Carr, a widow	SWN Production Company, LLC	17.00%	45/748	0.00%
/65	3-B29K-14	748492\002	Hallie V. Funk Leach, a married woman, dealing herein with her separate property	SWN Production Company, LLC	17.00%	45/755	0.00%

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EXHIBIT "A"

DNR C BRK 606H

Brooke 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, LLC., Operator

		748492\003	Robert C. Funk, married man, dealing herein with this separate property	SWN Production Company, LLC	17.00%	45/762	0.00%
		748492\001	Carolyn M. Funk Carr, a widow	SWN Production Company, LLC	17.00%	45/748	0.00%
66	3-B29K-15	748492\002	Hallie V. Funk Leach, a married woman, dealing herein with her separate property	SWN Production Company, LLC	17.00%	45/755	0.00%
		748492\003	Robert C. Funk, married man, dealing herein with this separate property	SWN Production Company, LLC	17.00%	45/762	0.00%
		747712\000	Karen Delatore and Louis Delatore, wife and husband	SWN Production Company, LLC	18.00%	39/590	0.00%
		747739\000	David L. Ragan and Joyce A. Ragan, husband and wife	SWN Production Company, LLC	18.00%	39/596	0.00%
67	3-B29-13.1	748492\001	Carolyn M. Funk Carr, a widow	SWN Production Company, LLC	17.00%	45/748	0.00%
		748492\002	Hallie V. Funk Leach, a married woman, dealing herein with her separate property	SWN Production Company, LLC	17.00%	45/755	0.00%
		748492\003	Robert C. Funk, married man, dealing herein with this separate property	SWN Production Company, LLC	17.00%	45/762	0.00%
68	3-B29-13	748492\001	David L. Ragan and Joyce A. Ragan, husband and wife	SWN Production Company, LLC	18.00%	39/596	0.00%
69	3-B29-12	747946\000	Trustees of the First Presbyterian Church of Wellsburg	SWN Production Company, LLC	18.00%	41/764	0.00%
70	3-B29-16	747946\000	Trustees of the First Presbyterian Church of Wellsburg	SWN Production Company, LLC	18.00%	41/764	0.00%
L4	3-B29-21	747946\000	Trustees of the First Presbyterian Church of Wellsburg	SWN Production Company, LLC	18.00%	41/764	0.00%
V6	3-B29-15.1	747946\000	Trustees of the First Presbyterian Church of Wellsburg	SWN Production Company, LLC	18.00%	41/764	0.00%

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EXHIBIT "A"
DNR C BRK 606H
Brooke County, West Virginia

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71	Bealls Ridge Road	733069\000	West Virginia Department of Transportation, Division of Highways	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	18/723 30/480	0.00%
72	3-B29-20	747946\000	Trustees of the First Presbyterian Church of Wellsburg	SWN Production Company, LLC	18.00%	41/764	0.00%
73	3-B29-19	747946\000	Trustees of the First Presbyterian Church of Wellsburg	SWN Production Company, LLC	18.00%	41/764	0.00%
74	3-B29-18	747946\000	Trustees of the First Presbyterian Church of Wellsburg	SWN Production Company, LLC	18.00%	41/764	0.00%
75	3-B34-84	747946\000	Trustees of the First Presbyterian Church of Wellsburg	SWN Production Company, LLC	18.00%	41/764	0.00%
76	3-B34-83	747946\000	Trustees of the First Presbyterian Church of Wellsburg	SWN Production Company, LLC	18.00%	41/764	0.00%
77	3-B34-81	747946\000	Trustees of the First Presbyterian Church of Wellsburg	SWN Production Company, LLC	18.00%	41/764	0.00%
78	3-B34-79	747946\000	Trustees of the First Presbyterian Church of Wellsburg	SWN Production Company, LLC	18.00%	41/764	0.00%
79	3-B34-76	747946\000	Trustees of the First Presbyterian Church of Wellsburg	SWN Production Company, LLC	18.00%	41/764	0.00%
80	3-B34-75	747946\000	Trustees of the First Presbyterian Church of Wellsburg	SWN Production Company, LLC	18.00%	41/764	0.00%
81	3-B34-74	747946\000	Trustees of the First Presbyterian Church of Wellsburg	SWN Production Company, LLC	18.00%	41/764	0.00%
82	3-B34-73	747946\000	Trustees of the First Presbyterian Church of Wellsburg	SWN Production Company, LLC	18.00%	41/764	0.00%
83	3-B34-72	747946\000	Trustees of the First Presbyterian Church of Wellsburg	SWN Production Company, LLC	18.00%	41/764	0.00%
K6	3-B34-71	747946\000	Trustees of the First Presbyterian Church of Wellsburg	SWN Production Company, LLC	18.00%	41/764	0.00%

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DNR C BRK 606H
Brooke County, West Virginia

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16	3-B34-70	747946\000	Trustees of the First Presbyterian Church of Wellsburg	SWN Production Company, LLC	18.00%	41/764	0.00%
16	3-B34-69	747946\000	Trustees of the First Presbyterian Church of Wellsburg	SWN Production Company, LLC	18.00%	41/764	0.00%
84	3-B34-78	785456\000	Ridgetop Appalachia, LLC, represented herein by Bradley J. Carpenter	SWN Production Company, LLC	18.00%	64/140	0.00%
85	3-B34-67	783771\001	Beverly Sue Craft, AKA Beverly Cucarese, married, dealing in her separate property	SWN Production Company, LLC	18.00%	62/309	0.00%
		783771\002	Mary Louise Sheeran, a widow	SWN Production Company, LLC	18.00%	62/396	0.00%
86	3-B34-66	730172\000	Bowndree, Inc.	Range Resources - Appalachia, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	10/388 10/552 30/480	0.00%
B5	370-11-4	Pending	Ridgetop Appalachia, LLC	SWN Production Company, LLC	18.00%	202325154	0.00%
87	3-B34-57	730087\000	Margaret H. Corbin, Widow	Great Lakes Energy Partners, L.L.C. Range Resources - Appalachia, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	19.50%	9/499 20/733 10/552 30/480	0.00%
		Pending	John N. Mullins, Jr., Single	SWN Production Company, LLC	18.00%	202205064	0.00%
		Pending	Joyce R. Anders	SWN Production Company, LLC	18.00%	202320432	0.00%
		Pending	Norma Jean Rosenbaum Carico	SWN Production Company, LLC	18.00%	202402347	0.00%
		Pending	Diana Christian fka Dianna Dale	SWN Production Company, LLC	18.00%	202216179	0.00%

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

Pending	Sheri Cradic fka Sheri Hubbard	SWN Production Company, LLC	15.00%	202320430	0.00%
Pending	Retha Marie Dale	SWN Production Company, LLC	18.00%	202216180	0.00%
Pending	Ronald Dale	SWN Production Company, LLC	18.00%	202216182	0.00%
Pending	Charles E. Gray	SWN Production Company, LLC	15.00%	202320436	0.00%
Pending	Jason Lee Gray	SWN Production Company, LLC	15.00%	202320434	0.00%
Pending	Larry W. Gray	SWN Production Company, LLC	15.00%	202320437	0.00%
Pending	Harvey H. Hubbard Jr.	SWN Production Company, LLC	15.00%	202320429	0.00%
Pending	J.B. Kitts	SWN Production Company, LLC	18.00%	202402346	0.00%
Pending	Debra Ann Marsh fka Debra Dale	SWN Production Company, LLC	18.00%	202216183	0.00%
Pending	Walter Grayson McMurray	SWN Production Company, LLC	18.00%	202320435	0.00%
Pending	Fannette Alice Prois fka Fannette Dale	SWN Production Company, LLC	18.00%	202216181	0.00%
Pending	The Salvation Army	SWN Production Company, LLC	18.00%	202407670	0.00%
Pending	Peggy Taylor fka Peggy Gray	SWN Production Company, LLC	18.00%	202320431	0.00%

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April 9, 2024

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

RE: SWN's proposed New Well: State of WV DNR C BRK 606H in Brooke County, West Virginia, Drilling under Cross Creek Road, Fowler Hill Road, Co HWY 27/11, Grandview Drive, Scenery Hill Road, Buckey Hill Road, Hideway Lane, Washington Pike, Ritchie Drive, Spruce Road, Pot Rock Road, Hawthorne Acres, WV-88, and Shangri-La Lane.

Dear Mr. Brewer:

SWN Production Company, LLC ("SWN") is applying for a drilling permit for the above referenced well. The State of West Virginia has raised some concern as to SWN's right to drill under Cross Creek Road, Fowler Hill Road, Co HWY 27/11, Grandview Drive, Scenery Hill Road, Buckey Hill Road, Hideway Lane, Washington Pike, Ritchie Drive, Spruce Road, Pot Rock Road, Hawthorne Acres, WV-88, and Shangri-La Lane. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you.

Sincerely,



Cooper Farish, CPL
Staff Landman
SWN Production Company, LLC



The Right People doing the Right Things,
wisely Investing the cash flow from our
underlying Assets, will create Value+®

05/17/2024

**Horizontal Natural Gas Well Work Permit
Application Notice By Publication**

Notice is hereby given:

Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisement.

Paper: Brooke County Review

Public Notice Date: March 1, 2024 & March 8, 2024

The following applicant intends to apply for a horizontal natural well work permit which disturbs three acres or more of surface excluding pipelines, gathering lines and roads or utilizes more than two hundred ten thousand gallons of water in any thirty day period.

Applicant: SWN Production Company, LLC **Well Number:** State of WV DNR C BRK 606H

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

Business Conducted: Natural gas production.

Location –

State:	<u>West Virginia</u>	County:	<u>Brooke</u>
District:	<u>Cross Creek</u>	Quadrangle:	<u>Steubenville East</u>
UTM Coordinate NAD83 Northing:	<u>4,461,403</u>		
UTM coordinate NAD83 Easting:	<u>539,289</u>		
Watershed:	<u>North Fork Cross Creek- Cross Creek</u>		

Coordinate Conversion:

To convert the coordinates above into longitude and latitude, visit: http://tagis.dep.wv.gov/convert/llutm_conus.php

Electronic notification:

To receive an email when applications have been received or issued by the Office of Oil and Gas, visit <http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx> to sign up.

Reviewing Applications:

Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE Charleston, WV 25304 (304-926-0450). Full copies or scans of the proposed permit application will cost \$15, whether mailed or obtained at DEP headquarters. Copies may be requested by calling the office or by sending an email to DEP.comments@wv.gov.

Submitting Comments:

Comments may be submitted online at <https://apps.dep.wv.gov/oog/comments/comments.cfm>, or by letter to Permit Review, Office of Oil and Gas, 601 57th Street, SE Charleston, WV 25304. Please reference the county, well number, and operator when using this option.

Regardless of format for comment submissions, they must be received no later than thirty days after the permit application is received by the Office of Oil and Gas.

For information related to horizontal drilling visit: www.dep.wv.gov/oil-and-gas/pages/default.aspx

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

Date of Notice Certification: 4/10

API No. 47- 009 -
Operator's Well No. State of WV DNR C BRK 606H
Well Pad Name: State of WV DNR C BRK

Notice has been given:

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>539,288.623</u>
County:	<u>009- Brooke</u>		Northing:	<u>4,461,402.535</u>
District:	<u>Cross Creek</u>	Public Road Access:	<u>Putney Ridge Road</u>	
Quadrangle:	<u>Steubenville East</u>	Generally used farm name:	<u>State of WV DNR C BRK</u>	
Watershed:	<u>North Fork Cross Creek- Cross Creek</u>			

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

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

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Required Attachments:

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

05/17/2024

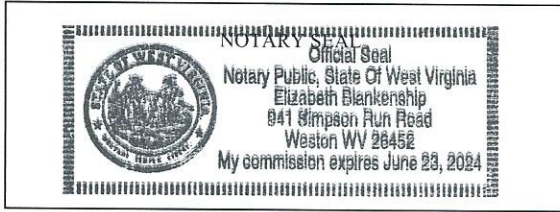
4700900343

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>Staff Regulatory Specialist</u>	Facsimile:	<u>304-884-1690</u>
Telephone:	<u>304-884-1610</u>	Email:	<u>Brittany_Woody@swn.com</u>

Brittany Woody



Subscribed and sworn before me this 4 day of March 2024
Elizabeth Blankenship Notary Public
 My Commission Expires 6/23/2024

Oil and Gas Privacy Notice:

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

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

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

Date of Notice: 9/10 **Date Permit Application Filed:** 9/10

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: West Virginia Division of Natural Resources
 Address: 324 4th Avenue
South Charleston WV 25308
 Name: _____
 Address: _____

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

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

COAL OWNER OR LESSEE
 Name: Starvaggi Industries, Inc.
 Address: 401 Pennsylvania Avenue
Weirton, WV 26062
 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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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

APR 11 2024
Office of the Secretary
WV Department of Environmental Protection
Oil and Gas

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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

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APR 11 2024
WV Department of
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Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site <http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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Notice is hereby given by:

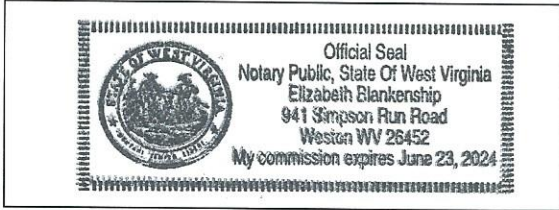
Well Operator: SWN Production Co., LLC
Telephone: 304-884-1610
Email: Brittany_Woody@swn.com

Brittany Woody

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

Oil and Gas Privacy Notice:

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



Subscribed and sworn before me this 4 day of March 2024.
Elizabeth Blankenship Notary Public
My Commission Expires 6/23/2024

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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: 10/30/2023 **Date of Planned Entry:** 11/6/2023

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: West Virginia Division of Natural Resources
 Address: 324 4th Avenue
South Charleston, WV 25303
 Name: _____
 Address: _____
 Name: _____
 Address: _____

COAL OWNER OR LESSEE

Name: Starvaggi Industries, INC.
 Address: 401 Pennsylvania Ave
Weirton, WV 26062

MINERAL OWNER(S)

Name: Starvaggi Industries, INC.
 Address: Weirton, WV 26062
Weirton, WV 26062

*please attach additional forms if necessary

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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>4461365.21, 539282.70</u>
County: <u>Brooke</u>	Public Road Access: <u>Putney Ridge Road</u>
District: <u>Cross Creek</u>	Watershed: <u>North Fork Cross Creek</u>
Quadrangle: <u>Steubenville East</u>	Generally used farm name: <u>State of WV DNR C</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: <u>304-884-1690</u>

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.

05/17/2024

WW-6A5
(1/12)

Operator Well No. WV DNR C BRK 606H
4700900343

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: 03/05/2024 **Date Permit Application Filed:** 4/10

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

- CERTIFIED MAIL
RETURN RECEIPT REQUESTED
- HAND
DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name: West Virginia Division of Natural Resources
Address: 324 4th Avenue
South Charleston, WV 25303

Name: _____
Address: _____

Notice is hereby given:

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

State:	WV	UTM NAD 83	Easting:	539,288.623
County:	Brooke		Northing:	4,461,402.535
District:	Cross Creek	Public Road Access:	Norfolk Cross Creek Run	
Quadrangle:	Steubenville East, WV	Generally used farm name:	State of WV DNR	
Watershed:	North Fork Cross Creek			

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
Telephone: 304-231-8329
Email: reid_croft@swn.com

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

Oil and Gas Privacy Notice:

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

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

Office of the District Engineer/Manager

District Four

Post Office Box 4220 · Clarksburg, West Virginia 26302 · (304) 842-1500

Alanna J. Keller, P.E.
Deputy Secretary of Transportation
Deputy Commissioner of Highways

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

February 27, 2024

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 WV DNR C Well Pad, Brooke County
BRK 606H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2017-0591 which has been issued to SWN Production Company, LLC for access to the State Road for a well site located off Brooke County Route 7/3 SLS MP 0.49.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated March 6, 2023. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Stephen G. Johnson, P.E.
Director of Operations

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Cc: Brittany Woody
SWN Production Company, LLC
OM, D-6
File

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Attachment VI Frac Additives

Product Name	Product Use	Chemical Name	CAS Number
HCL	Solvent	Hydrochloric Acid	7647-01-0
		Water	7732-18-5
FSTI-CI-02	Corrosion Inhibitor	2-Butoxyethanol	111-76-2
		Ethylene glycol	107-21-1
		N,N-Dimethylformamide	68-12-2
		benzyl chloridequaternized	72480-70-7
		Cinnamaldehyde	104-55-2
		Isopropyl alcohol	67-63-0
		Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)- .omega.-hydroxy-	9016-45-9
		1-Decanol	112-30-1
		1-Octanol	111-87-5
		Triethyl phosphate	78-40-0
Ferriplex 80	Iron Control	Sodium Erythorbate	6381-77-7
Tolicide 4Frac	Biocide	Tetrakis(Hydroxymethyl) Phosphonium Sulfate	55566-30-8
		Quaternary ammonium compounds	68424-85-1
		Ethanol	64-17-5
		Water	7732-18-5
Plexslick 930	Friction Reducer	Hydrotreated Petroleum Distillate	64742-47-8
		Water	7732-18-5
		copolymer of 2-propenamide	69418-26-4
		Oleic Acid Diethanolamide	93-83-4
		Alcohol Ethoxylate Surfactants	68551-12-2
		Ammonium Chloride	12125-02-9
		Sodium Chloride	7647-14-5
Plexaid 655NM	Scale Inhibitor	ORGANIC PHOSPHONIC ACIDS SALTS	15827-60-8
		Water	7732-18-5
Plexslick V996	Friction Reducer	Hydrotreated Petroleum Distillate	64742-47-8
		Water	7732-18-5
		copolymer of 2-propenamide	69418-26-4
		Alcohol Ethoxylate Surfactants	68551-12-2
		Sodium Chloride	7647-14-5
Plexaid 655WG	Scale Inhibitor	ORGANIC PHOSPHONIC ACIDS SALTS	15827-60-8
		Water	7732-18-5
		Glycerin	67-56-1
Clearal 270	Biocide	Glutaraldehyde	111-30-8
		Didecylidimethylammonium Chloride	7173-51-5
		Quaternary Ammonium compounds, Benzyl-C12-C16-alkyldimethyl, Chlorides	68424-85-1
		Ethanol	64-17-5
		Water	7732-18-5
StimSTREAM SC 398 CW	Scale Inhibitor	Ethylene glycol	107-21-1
		CHEMSTREAM-Polymer-10001	CHEMSTREAM-Polymer-10001
		CHEMSTREAM-Polymer-10002	CHEMSTREAM-Polymer-10002
		Water	7732-18-5
StimSTREAM FR 9800	Friction Reducer	Chemstream-Alkane-00001	Chemstream-Alkane-00001
		Chemstream-Polymer-00001	Chemstream-Polymer-00001
		Ethoxylated alcohols (C12-16)	68551-12-2
		Water	7732-18-5
StimSTREAM FR 2800	Friction Reducer	Distillates (petroleum), hydrotreated light	64742-47-8
		Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9
		Water	7732-18-5
StimSTREAM FR 9725	Friction Reducer	Distillates (petroleum), hydrotreated light	64742-47-8
		Ammonium Chloride	12125-02-9
		Water	7732-18-5
StimSTREAM SC 398 C	Scale Inhibitor	CHEMSTREAM-Polymer-10001	CHEMSTREAM-Polymer-10001
		CHEMSTREAM-Polymer-10002	CHEMSTREAM-Polymer-10002
		Water	7732-18-5

As of 7/5/2023

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05/17/2024

OPERATOR: SWN Production Co., LLC

WELL NO: State of WV DNR C BRK 606H

PAD NAME: State of WV DNR C BRK

REVIEWED BY: _____

SIGNATURE: *Brittany Nbody*

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

**Pad Built 8/14/20*

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

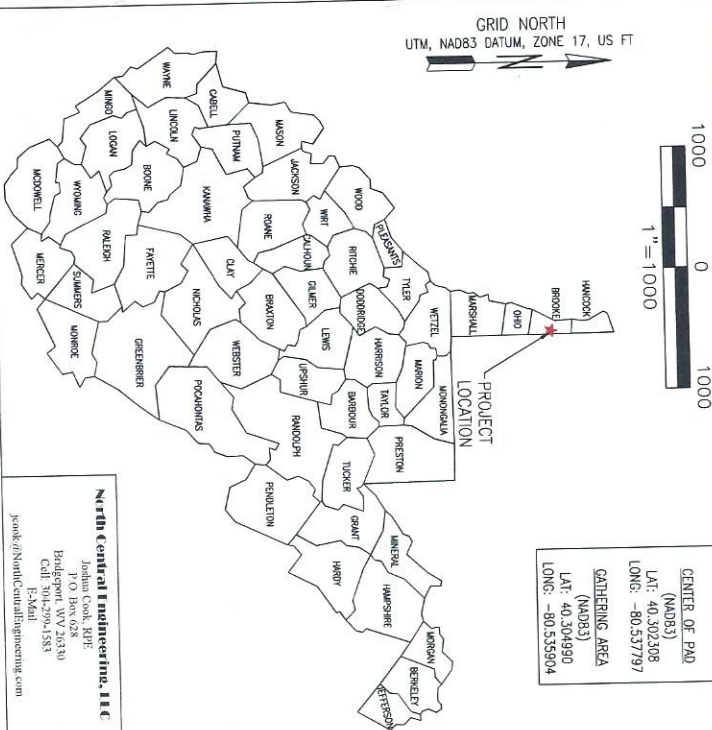
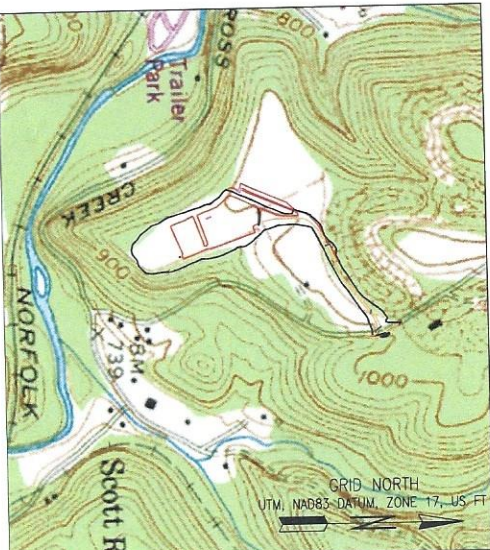
At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR

Surface Owner Waiver and Recorded with County Clerk, OR

DEP Variance and Permit Conditions

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STATE OF WV DNR C BRK PAD
 CONSTRUCTION AND RECLAMATION PLAN
 AS-BUILT
 CROSS CREEK DISTRICT, BROOKE COUNTY, WV
 OCTOBER 2020

COORDINATES:
 SITE ENTRANCE
 (NAD83)
 LAT: 40.506599
 LONG: -80.534275

AT STATE OF
 WV DNR C BRK
 (NAD83)
 LAT: 40.502969
 LONG: -80.537941

CENTER OF PAD
 (NAD83)
 LAT: 40.502308
 LONG: -80.537797

GATHERING AREA
 (NAD83)
 LAT: 40.504690
 LONG: -80.5358904

TOTAL DISTURBED AREA: 13.7 ACRES
 ROAD DISTURBED AREA: 3.7 ACRES
 PAD DISTURBED AREA: 10.0 ACRES

Engineering Estimate of Quantities

Maintain Pad, Sumps, Egs Controls (Minimal) Seed and Mulch	1 Ea 100 SY
Access Road (Drilling)	
Maintain Road & Ditches	1 Ea
Clean Culvert	1 Ea
Inlets/Outlets	1 Ea
Maintain EGS Controls	1 Ea
Road Ramp Additional	80/Ton
Well Site Pad Data (Reclamation)	
Remove Sump	5 Ea
Breach Berm	5 Ea
Discharge Channels	
Rip Rap	140/Ton
OR	
Erosion Control Fabric	200 SY
Speed Topsoil	6,000 CY
Seed and Mulch	13,000 SY
Seed & Mulch	250 SY
Maintain EGS controls	1 Ea

PROPOSED WELL: State of WV DNR MSH 5H (047-009-00257) (NAD83) LAT: 40.502367 LONG: -80.537757	SHEET INDEX TS1 TITLE SHEET EP21 EVACUATION ROUTE/ PREVAILING WIND EP22 EVACUATION ROUTE/ PREVAILING WIND AS3.1 ASBUILT OVERVIEW AS3.2 ASBUILT AS3.3 ASBUILT ASR4.1 CONSTRUCTION AND RECLAMATION ACCESS ROAD PROFILE MRO5.1 RECLAMATION PLAN MRO5.2 RECLAMATION PLAN MRO5.3 RECLAMATION PLAN MRO5.4 RECLAMATION PLAN MRO5.5 RECLAMATION PLAN MRO5.6 RECLAMATION PLAN MRO5.7 RECLAMATION PLAN MRO5.8 RECLAMATION PLAN MRO5.9 RECLAMATION PLAN MRO5.10 RECLAMATION PLAN MRO5.11 RECLAMATION PLAN MRO5.12 RECLAMATION PLAN MRO5.13 RECLAMATION PLAN MRO5.14 RECLAMATION PLAN MRO5.15 RECLAMATION PLAN MRO5.16 RECLAMATION PLAN MRO5.17 RECLAMATION PLAN MRO5.18 RECLAMATION PLAN MRO5.19 RECLAMATION PLAN MRO5.20 RECLAMATION PLAN MRO5.21 RECLAMATION PLAN MRO5.22 RECLAMATION PLAN MRO5.23 RECLAMATION PLAN MRO5.24 RECLAMATION PLAN MRO5.25 RECLAMATION PLAN MRO5.26 RECLAMATION PLAN MRO5.27 RECLAMATION PLAN MRO5.28 RECLAMATION PLAN MRO5.29 RECLAMATION PLAN MRO5.30 RECLAMATION PLAN MRO5.31 RECLAMATION PLAN MRO5.32 RECLAMATION PLAN MRO5.33 RECLAMATION PLAN MRO5.34 RECLAMATION PLAN MRO5.35 RECLAMATION PLAN MRO5.36 RECLAMATION PLAN MRO5.37 RECLAMATION PLAN MRO5.38 RECLAMATION PLAN MRO5.39 RECLAMATION PLAN MRO5.40 RECLAMATION PLAN MRO5.41 RECLAMATION PLAN MRO5.42 RECLAMATION PLAN MRO5.43 RECLAMATION PLAN MRO5.44 RECLAMATION PLAN MRO5.45 RECLAMATION PLAN MRO5.46 RECLAMATION PLAN MRO5.47 RECLAMATION PLAN MRO5.48 RECLAMATION PLAN MRO5.49 RECLAMATION PLAN MRO5.50 RECLAMATION PLAN MRO5.51 RECLAMATION PLAN MRO5.52 RECLAMATION PLAN MRO5.53 RECLAMATION PLAN MRO5.54 RECLAMATION PLAN MRO5.55 RECLAMATION PLAN MRO5.56 RECLAMATION PLAN MRO5.57 RECLAMATION PLAN MRO5.58 RECLAMATION PLAN MRO5.59 RECLAMATION PLAN MRO5.60 RECLAMATION PLAN MRO5.61 RECLAMATION PLAN MRO5.62 RECLAMATION PLAN MRO5.63 RECLAMATION PLAN MRO5.64 RECLAMATION PLAN MRO5.65 RECLAMATION PLAN MRO5.66 RECLAMATION PLAN MRO5.67 RECLAMATION PLAN MRO5.68 RECLAMATION PLAN MRO5.69 RECLAMATION PLAN MRO5.70 RECLAMATION PLAN MRO5.71 RECLAMATION PLAN MRO5.72 RECLAMATION PLAN MRO5.73 RECLAMATION PLAN MRO5.74 RECLAMATION PLAN MRO5.75 RECLAMATION PLAN MRO5.76 RECLAMATION PLAN MRO5.77 RECLAMATION PLAN MRO5.78 RECLAMATION PLAN MRO5.79 RECLAMATION PLAN MRO5.80 RECLAMATION PLAN MRO5.81 RECLAMATION PLAN MRO5.82 RECLAMATION PLAN MRO5.83 RECLAMATION PLAN MRO5.84 RECLAMATION PLAN MRO5.85 RECLAMATION PLAN MRO5.86 RECLAMATION PLAN MRO5.87 RECLAMATION PLAN MRO5.88 RECLAMATION PLAN MRO5.89 RECLAMATION PLAN MRO5.90 RECLAMATION PLAN MRO5.91 RECLAMATION PLAN MRO5.92 RECLAMATION PLAN MRO5.93 RECLAMATION PLAN MRO5.94 RECLAMATION PLAN MRO5.95 RECLAMATION PLAN MRO5.96 RECLAMATION PLAN MRO5.97 RECLAMATION PLAN MRO5.98 RECLAMATION PLAN MRO5.99 RECLAMATION PLAN MRO5.100 RECLAMATION PLAN
PROPOSED WELL: State of WV DNR MSH 6H (047-009-00316) (NAD83) LAT: 40.502315 LONG: -80.537734	PROPOSED WELL: State of WV DNR MSH 8H (047-009-00310) (NAD83) LAT: 40.502393 LONG: -80.537768
PROPOSED WELL: State of WV DNR MSH 10H (047-009-00309) (NAD83) LAT: 40.502341 LONG: -80.537745	



Joshua R. Cook RPE 17990

Date: 10-21-2020



Jackson Surveying Inc.
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 STATE OF WV DNR C BRK PAD
 CROSS CREEK DISTRICT, BROOKE COUNTY, WV
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