



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 406H
47-009-00342-00-00

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

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

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

A handwritten signature in blue ink, appearing to read 'James A. Martin', is written over a printed name and title.

James A. Martin
Chief

Operator's Well Number: State of WV DNR C BRK 406H
Farm Name: State of WV DNR, Public Land
U.S. WELL NUMBER: 47-009-00342-00-00
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

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 406H 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- 5883', Target Base TVD- 5945', Anticipated Thickness- 62', Associated Pressure- 3864

8) Proposed Total Vertical Depth: 5620'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 31,308'

11) Proposed Horizontal Leg Length: 24,745.87

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: _____

Trader Gowen
3/19/2024

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18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	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#	31,308'	31,308' ✓	Tail 6081sx/ 100' Inside Intermediate
Tubing							
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	30"	0.25	2120	81	Class A ✓	1.20/30% Excess
Fresh Water	13 3/8"	17.5"	0.330	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:				

Strader Gower

3/19/2024

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.

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

See Attachment ***

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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.

4700900342

Southwestern Energy Company

Proposed Drilling Program



Well: STATE OF WV DNR C BRK 406H
 Field: PANHANDLE FIELD WET
 County: BROOKE
 SHL (NAD83): 40.302242 Latitude -80.537701 Longitude
 BHL (NAD83): 40.235908 Latitude -80.513094 Longitude
 KB Elev: 1,015 ft MSL KB Height: 26 ft AGL

Drilling Rig: SDC 501
 Formation: Marcellus Shale
 State: WV
 GL Elev: 989 ft MSL

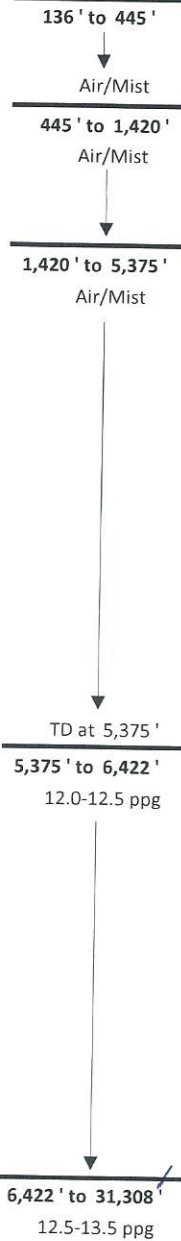
NO COAL VOID EXPECTED

PROD TOC @ 1,400' MD

TUBULAR DETAIL					
Casing String	Casing Size (in)	Weight (Min)	Grade (Min)	Planned Interval	
				From	To
Conductor	20	94.0 #	J-55	0'	136'
Surface/Coal	13.375	54.4 #	J-55	0'	425'
Intermediate	9.625	36.0 #	J-55	0'	1,400'
Production	5.5	20.0 #	P-110 HP	0'	31,308'

CEMENT DETAIL

	Sacks	Class	Density
Conductor	173	A ✓	19.3
Surface	484	A/L	15.6
Intermediate	555	A/L	15.6
Production	6081	A/L	14.5-15.0



KOP at 5,375' MD ✓

Freshwater Depth - 371' TVD
 Coal Depth - None
 Saltwater Depth - 575' TVD
 TVD - 5,620'
 TMD - 31,308'

5,620' TVD Target Center

TD at 31,308' MD
 5,620' TVD

LP at 6,422' MD

SHL Onondaga 5,635' TVD

Onondaga 5,635' TVD ✓

Created by: Sebastian Ziaja on 03/12/2024

Strader Gower

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05/17/2024

WW-9
(4/16)

API Number 47-⁴⁰⁰⁹4700900342

Operator's Well No. State of WV DNR C BRK 406H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name SWN Production Co., LLC OP Code 494512924

Watershed (HUC 10) 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)

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 SOBMs 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-U8438, 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

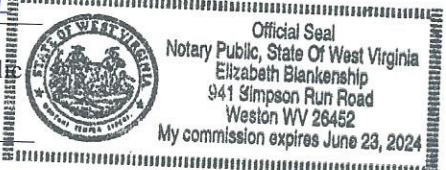
Company Official (Typed Name) Brittany Woody

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

Fertilizer type 10-20-20

Fertilizer amount 600/500 lbs/acre

Mulch Hay/Straw Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type lbs/acre

Attachment 3C

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Strader Gower

Comments: _____

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Title: Oil & Gas Inspector

Date: 3/19/2024

Field Reviewed? () Yes () No

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

4700900342



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 406H
Steubenville East QUAD
Cross Creek DISTRICT
BROOKE COUNTY, WEST VIRGINIA**

Submitted by:

Name: 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

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Approved by:

Name: _____

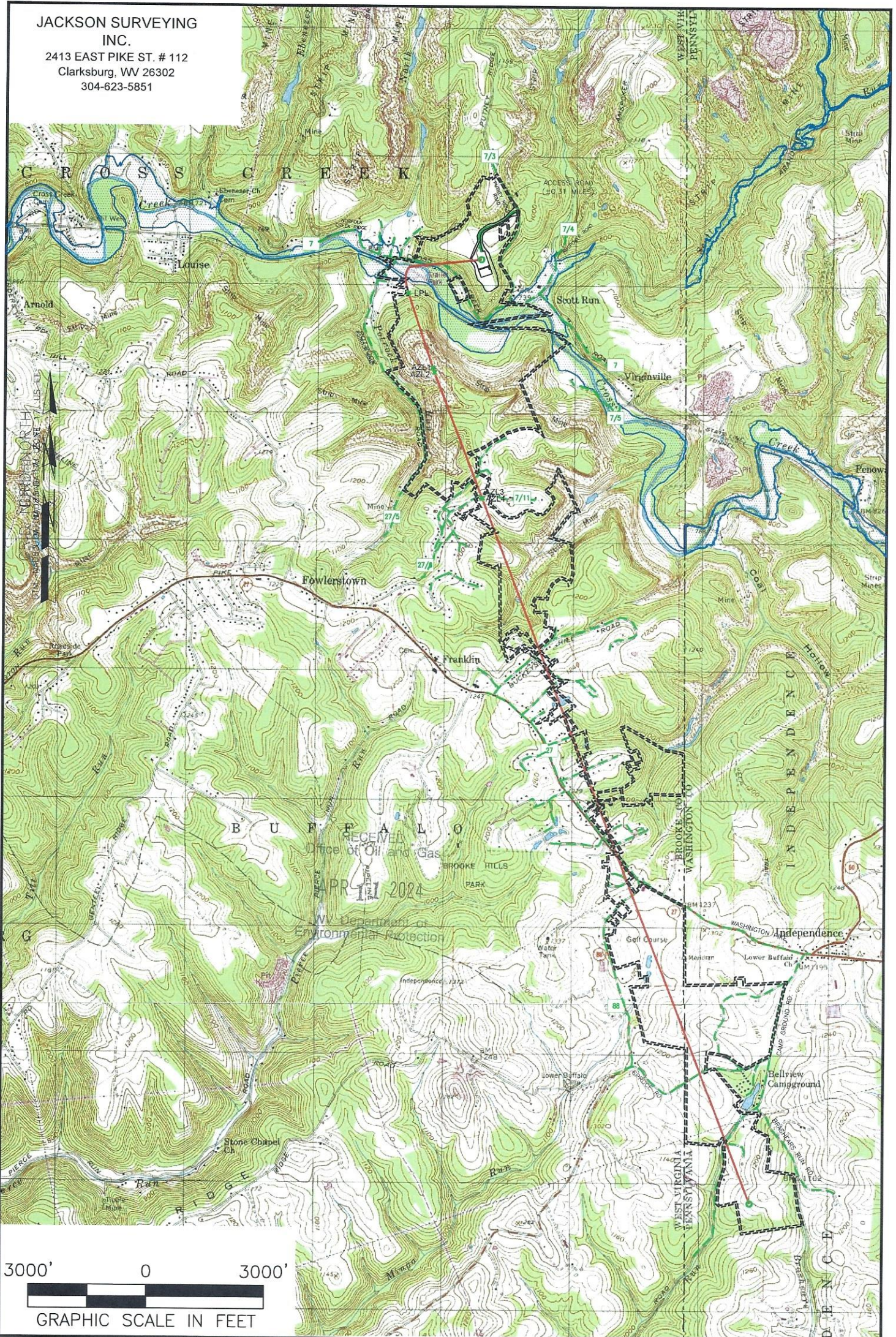
Date: _____

Title: _____

SWN PRODUCTION COMPANY, LLC – CONFIDENTIAL

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
- 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 # 406H	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 10,511'

Latitude: 40°15'00"

BOTTOM HOLE 3,655'

JACKSON SURVEYING

INC.

2413 EAST PIKE ST. # 112

Clarksburg, WV 26302

304-623-5851

SURFACE HOLE LOCATION (SHL):

UTM (NAD83, ZONE 17, METERS):

NORTHING: 4,461,406.567

EASTING: 539,287.224

LANDING POINT (LPL):

UTM (NAD83, ZONE 17, METERS):

NORTHING: 4,461,139.955

EASTING: 538,719.478

BOTTOM HOLE LOCATION (BHL):

UTM (NAD83, ZONE 17, METERS):

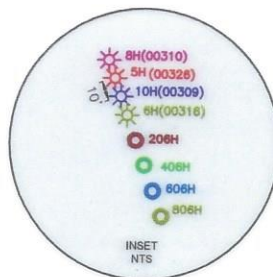
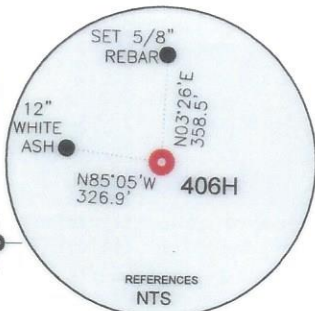
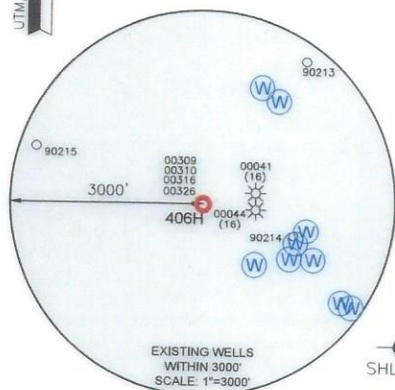
NORTHING: 4,454,054.868

EASTING: 541,418.859

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 35°33'40" W	1043.55'	SHL TO LANDMARK	2" IRON PIPE FOUND
L2	N 66°05'01" W	1320.45'	SHL TO LANDMARK	STONE FOUND
L5	S 21°07'45" E	5.38'	AZL3 TO AZL4	

LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	S 64°50'43" W	2057.84'	2555.78'	SHL TO LP
L4	S 19°53'37" E	125.34'	125.34'	AZL1 TO AZL2

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



WELL RESTRICTIONS

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

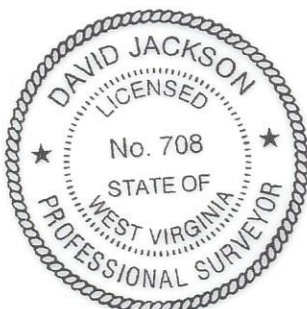
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- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

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

P.S. 708

David L Jackson



2000 0 2000



GRAPHIC SCALE IN FEET

COMPANY:

SWN

SWN *R-V+*

Production Company, LLC Production Company™



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

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

MINIMUM DEGREE OF ACCURACY: 1/200

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

STATE OF WV DNR C BRK

OPERATOR'S WELL #: 406H

API WELL #: **47 009 00342**

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: 5,930 TVD 31,307 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:	REVISIONS:	DATE:
PROPOSED SURFACE HOLE / BOTTOM HOLE	SURVEYED BOUNDARY	04-08-2024
EXISTING / PRODUCING WELLHEAD	DRILLING UNIT	
LPL LANDING POINT LOCATION	LEASE BOUNDARY	
EXISTING WATER WELL	PROPOSED PATH	
EXISTING SPRING		

JACKSON SURVEYING

INC.

2413 EAST PIKE ST. # 112

Clarksburg, WV 26302

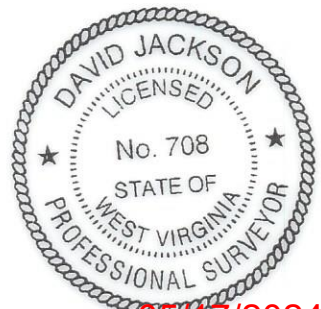
304-623-5851



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

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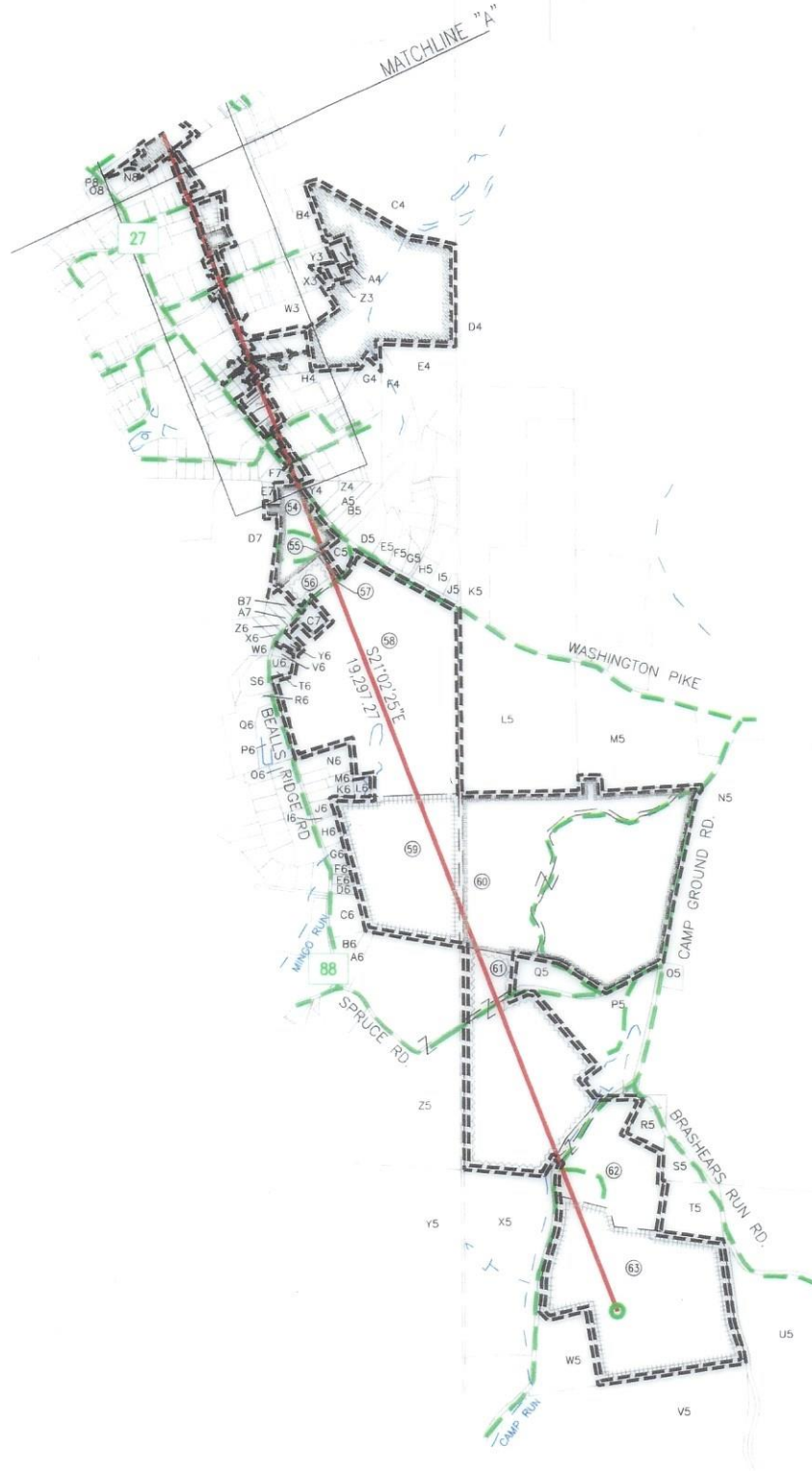
David L Jackson



05/17/2024

REVISIONS:	COMPANY:		
	OPERATOR'S	STATE OF WV DNR C BRK	API:
	WELL #:	406H	47-009-00342
	DISTRICT:	CROSS CREEK	STATE:
	COUNTY:	BROOKE	WV
			DATE: 04-08-2024
			DRAWN BY: N. MANO
			SCALE: N/A
			DRAWING NO:
			WELL LOCATION PLAT 2

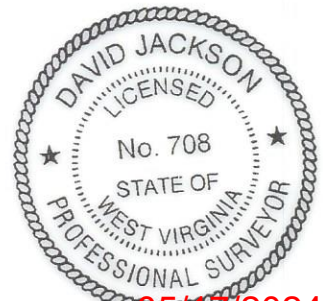
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 Clarksburg, WV 26302
 304-623-5851



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

P.S. 708

David L Jackson



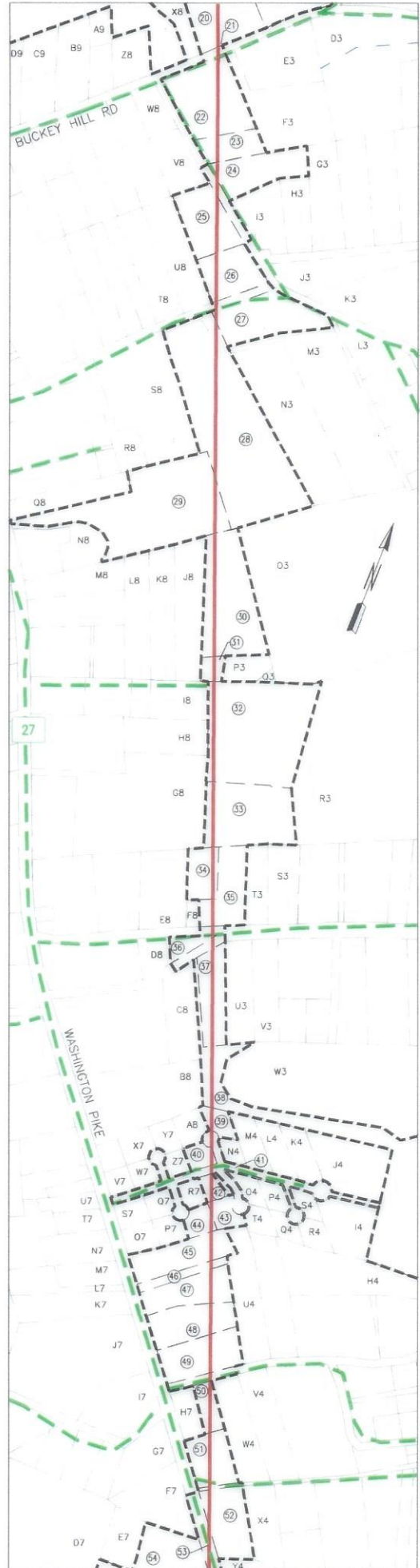
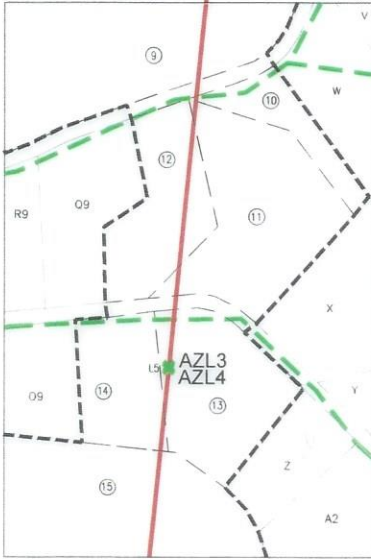
05/17/2024

REVISIONS:		COMPANY:		DATE: 04-08-2024	
OPERATOR'S STATE OF WV DNR C BRK		API:		DRAWN BY: N. MANO	
WELL #: 406H		47-009-00342		SCALE: N/A	
DISTRICT: CROSS CREEK		COUNTY: BROOKE		DRAWING NO:	
		STATE: WV		WELL LOCATION PLAT 3	

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	
				DRAWN BY: N. MANO	
	OPERATOR'S STATE OF WV DNR C BRK			API: 47-009-00342	
	WELL #: 406H			SCALE: N/A	
	DISTRICT: CROSS CREEK		COUNTY: BROOKE	STATE: WV	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
	SURFACE OWNER (S)	TAX PARCEL
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	EDGELL ROSA MARIE (S)	4-CC19-176
8	WEST VIRGINIA ST OF BUREAU OF COMM DIV OF NAT RES PB LC CORP (S)	4-CC23-325
9	JOHNS ALBERT; GARY; GREGORY; MOORE TAMMY (S)	4-CC23-326
10	COLLINS RANDY L JR & AMY R (SURVIVORSHIP) (S)	4-CC24-18
11	LICHT JANICE (S)	4-CC24-19
12	JOHNSON KATHY L (S)	4-CC24-19.1
13	COLEMAN ROBERT B & SHERRY E (SURVIVORSHIP) (S)	4-CC24-28
14	MOZINGO WARREN HARRY & LINDA DIANE (SURV) (S)	4-CC24-27
15	BRADLEY GEORGE L (S)	4-CC24-55
16	STEVENS JOHN & LINDA (S)	4-CC24-56
17	MALONEY CHARLES WAYNE & NANCY L (JTWS) (TOD) (S)	4-CC29-17
18	JOHNS LESLIE J & MELLISA J (JTWS) (S)	4-CC24-99
19	HEFFNER TERRI (S)	4-CC24-84
20	HART ERIC; JEFFREY; KRISTOPHER (LE-KENNETH & SANDRA HART) (S)	4-CC29-19
21	WEST VIRGINIA DEPARTMENT OF TRANSPORTION DIVISION OF HIGHWAYS (S)	BUCKEY HILL ROAD
22	SKAGGS PAUL E III (S)	4-CC29-20
23	WOOD HAROLD B; RUNYAN KELLY J (SURV) (S)	4-CC29-27
24	WOOD HAROLD B; RUNYAN KELLY J (SURV) (S)	4-CC29-28
25	ELLIOTT BERNARD JR. LE (S)	4-CC29-65
26	STIMPSON LARRY J & SUSAN K (SURV) (S)	4-CC29-64
27	MCKEE ROBERT M (S)	4-CC29-90
28	WALES MARK A & KIMBERLY A (SURV) (S)	4-CC29-92
29	RIGGS RONALD (S)	4-CC29-100
30	GAGICH JONATHAN & JESSICA L (S)	4-CC29-109.2
31	GAGICH DIANA KIM (S)	4-CC29-109
32	GAGICH DIANA KIM (S)	4-CC29-117.1
33	CAMPBELL ERIC WILLIAM (S)	4-CC29-119
34	DESERIO PAUL R & DESERIO KATHY A (JTWS) (S)	4-CC29-124
35	DISERIO PAUL R (S)	4-CC29-123
36	REID JANIS BARNA (S)	4-CC29-149
37	BILLIARD PAUL;TIMOTHY;WALES KIM LE-CAROL BILLIARD (S)	4-CC29-148
38	FRESHWATER ROBERT LEE (S)	4-CC29-134
39	HAGLER CHARLES (S)	4-CC29-162
40	MARSHALL NATHAN D & REARDON SHANNON (JTWS) (S)	4-CC29-160
41	MAIN DRIVE CIVIC ASSOC INC (S)	4-CC29-155.1
42	ZUMPETTA JOHN L & KAREN R (SURV) (S)	4-CC29-176
43	OLIVEIRA PAUL R & KAREN SUE (SURV) (S)	4-CC29-175
44	THOMA MATTHEW E & TRACI L (S)	4-CC29-178
45	WELCH HATTIE J (S)	4-CC29-183
46	WELCH HATTIE J (S)	4-CC29-184
47	WALES KIMBERLY A & MARK ALLEN (SURVIVOR) (S)	4-CC29-185
48	BILLIARD PAUL T (S)	4-CC29-186.1
49	BILLIARD PAUL T (S)	4-CC29-186
50	HULL ROBERT D (S)	4-CC29-204
51	LOUNDER ROBERT W & VALARIE J (SURVIVORSHIP) (S)	4-CC29-206
52	HELSEL WILLIAM A (S)	4-CC29-207
53	WEST VIRGINIA DEPARTMENT OF TRANSPORTION DIVISION OF HIGHWAYS (S)	WASHINGTON PIKE A/K/A STATE ROUTE 27
54	ROBERSON CHARLES M & DOROTHY (S)	3-B29-5
55	HIGHLAND SPRINGS GOLF COURSE LLC (S)	3-B29-7
56	SHIDOCK ARLENE R (S)	3-B29-8
57	WEST VIRGINIA DEPARTMENT OF TRANSPORTION DIVISION OF HIGHWAYS (S)	BEALLS RIDGE ROAD
58	HIGHLAND SPRINGS GOLF COURSE LLC (S)	3-B29-18
59	BROWNLEE LAND VENTURES LP (S)	3-B34-78
60	BROWNLEE LAND VENT LP (S)	370-007-5
61	BROWNLEE LAND VENT (S)	370-011-4
62	BROWNLEE LAND VENT (S)	370-011-7
63	TAYLOR 2016 REVOC TRUST KENNETH LEE & ANN MARIE TRUSTEES (S)	370-011-2

05/17/2024

REVISIONS:	COMPANY:	 	
	OPERATOR'S STATE OF WV DNR C BRK	API:	DATE: 04-08-2024
	WELL #: 406H	47-009- 00341	DRAWN BY: N. MANO
	DISTRICT: CROSS CREEK	COUNTY: BROOKE	SCALE: N/A
		STATE: WV	DRAWING NO:
			WELL LOCATION PLAT 5


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

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	GALIANO LINDY L &	4-CC20-19.1
B	CARTER EDWARD L & DEBORAH C JTWS	4-CC20-18
C	CARTER EDWARD L	4-CC20-17
D	GALIANO ERIC T	4-CC20-16
E	GALIANO ERIC T	4-CC20-14
F	GALIANO ERIC T	4-CC20-19
G	MCCONNELL KEVIN	4-CC20-11
H	MCCONNELL BARBARA J	4-CC20-10
I	PRONCHIK SUSAN KAY	4-CC20-8
J	BERNARDINI JUDITH ANN	4-CC20-9
K	BERNARDINI MICHAEL LEE & JULIE LYNN	4-CC20-44
L	NORFOLK & WESTERN RAILWAY CO	4-CC24B-29
M	NICKOLES 3 LLC	4-CC20-33
N	WEST VIRGINIA ST OF BUREAU OF COMM DIV OF NAT RES PB LD CORP	4-CC24-3
O	CORK BRANDON & LORETTA SANCHEZ	4-CC24-8
P	VAUGHN MARK E & LISA A (SURV)	4-CC24-9
Q	MILBAUER DAVID A & TERI L	4-CC24-10
R	PETTRY OTTIS T	4-CC24-12
S	CROSS RAYMOND S DENNIS P & BUTLER KATHRYN R	4-CC24-13
T	CZESZYCKI JOSEPH P & TOM METZ	4-CC24-6
U	BAIRD WILLIAM C & CYNTHIA L (SURV)	4-CC24-5
V	LYNCH THERESA ANN (LE CHARLES & ELLEN THORNE	4-CC24-16
W	COLLINS RANDY L JR & AMY R (SURVIVORSHIP	4-CC24-17
X	HUNTER ROBERT JR	4-CC24-48
Y	TAYLOR JENNIFER	4-CC24-47
Z	TAYLOR BUDDY L JR & PATRICIA L (SURV)	4-CC24-29
A2	ADAMS JASON R	4-CC24-30
B2	WHITE ROGER DALE	4-CC24-31
C2	WHITE ROGER DALE	4-CC24-32
D2	MCCLOUD PAULETTE	4-CC24-33
E2	SHINGLE EVA RAYMOND	4-CC24-34
F2	SHINGLE EVA & RAYMOND	4-CC24-35
G2	CRAWFORD BERNARD E (TOD) & WILMA A	4-CC24-36
H2	CRAWFORD BERNARD E (TOD) & WILMA L	4-CC24-37
I2	HUNTER WILLIAM R & GLORIA J	4-CC24-38
J2	SMITH VICKIE L	4-CC24-39
K2	PEHANICH DIANA LYNN TOD MICHELLE ALLMAN	4-CC24-15
L2	CROSS RAYMOND S DENNIS P & BUTLER KATHRYN R	4-CC24-13
M2	OBER MICHAEL	4-CC24-7
N2	SMITH DEAN	4-CC24-98
O2	MCFADDEN MICHAEL K & SHARON (SURV)	4-CC24-93
P2	CIPRIANI MICHAEL J	4-CC24-142
Q2	CIPRIANI MICHAEL J	4-CC24-141
R2	EARNEST JACK & LESLIE M (SURV)	4-CC24-138
S2	FARRELL KEVIN M & HEIDI J (SURV)	4-CC24-92
T2	FARRELL KEVIN M & HEIDI J (SURV)	4-CC24-91
U2	BRADY RALPH A & KIM (SURV)	4-CC24-90
V2	FERGUSON BRIAN L & NANCY J (SURV) (TOD)	4-CC24-89
W2	HUFFNER JAMES E & PATRICIA	4-CC24-88
X2	HUFFNER JAMES E & PATRICIA A (SURV)	4-CC24-99.6
Y2	CECCHINI CHRISTOPHER L	4-CC24-87
Z2	CECCHINI CHRISTOPHER	4-CC24-86
A3	BOLEN MICHAEL SCOTT	4-CC24-85
B3	FERGUSON DREW	4-CC24-84.1
C3	ROHR ANITRA	4-CC24-124.1
D3	CLEM MICHAEL G	4-CC29-23
E3	HART KRISTOPHER B & CHRISTY L (SURV)	4-CC29-22
F3	HART KRISTOPHER BRIAN	4-CC29-21
G3	SPENCER MICHAEL L & LORI L (SURV)	4-CC29-31
H3	LOUGHRIE WILLIAM & DIANE (SURV)	4-CC29-30
I3	CIOLETTI RYAN	4-CC29-29
J3	JOZWICK RICHARD A & KAREN A	4-CC29-46
K3	EATON JAMES W	4-CC29-45
L3	HUNTER CLARA MAE NKA JACKSON CLARA TUD	4-CC29-48
M3	CYPHERT DEBRA-1/2; FAIR MATTHEW 1/4; BRUFFY SUSAN-1/4	4-CC29-57
N3	WALES MARK A & KIMBERLY A (SURV)	4-CC29-91
O3	KRAFT JEREMIAH ETAL	4-CC29-111
P3	GAGICH JONATHAN	4-CC29-109.1
Q3	KRAFT CHARLES L & JANNA	4-CC29-110
R3	CAMPBELL ERIC W	4-CC29-117
S3	DISERIO PAUL RAYMOND & KATHY A	4-CC29-126
T3	DISERIO PAUL R	4-CC29-125
U3	FILKINS RANDY	4-CC29-147
V3	MAYNARD COREY L	4-CC29-146
W3	AUBER ARTHUR D & GERALDINE A (SURV)	4-CC29-142
X3	AUBER ARTHUR & GERALDINE A	4-CC29-138
Y3	OHLER LORI ANN & RICKI (SURV)	4-CC29-137
Z3	PAULL JOHN	4-CC29-136
A4	HARTZER JAMES N & EVANS HARTZER CAROLE G (SURV)	4-CC29-135
B4	FLUHARTY JERRY & MARY	4-CC29-133
C4	CYPHERT DEBRA-1/2; FAIR MATTHEW 1/4; BRUFFY SUSAN-1/4	4-CC29-57
D4	STATE LINE REAL EST LLC	370-07-01
E4	STEWART RUTH ANN 1/2 JACKSON MADELON DAWN 1/2 TOD	4-CC29-194
F4	STEWART RUTH ANN 1/2 JACKSON MADELON DAWN 1/2 TOD	4-CC29-193
G4	PACKER JAMI	4-CC29-192
H4	CLAMPITT NORMAN C & JEANETTA K (SURV)	4-CC29-190
I4	FRESHWATER ROBERT LEE	4-CC29-168
J4	MAIN DRIVE CIVIC ASSOC INC	4-CC29-167

*Highlighted Parcels may be impacted during drilled.

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
K4	FRESHWATER ROBERT LEE	4-CC29-166
L4	FRESHWATER ROBERT LEE	4-CC29-165
M4	FRESHWATER ROBERT LEE	4-CC29-164
N4	HENLINE MICHELLE J	4-CC29-163
O4	FRESHWATER MELISSA J	4-CC29-173
P4	FRESHWATER MELISSA J	4-CC29-172
Q4	FRESHWATER MELISSA J	4-CC29-171
R4	FRESHWATER MELISSA J	4-CC29-169
S4	CLAMPITT NORMAN C & JEANETTA K	4-CC29-170
T4	WILEY DEAN A & PALMER HELENA M (SURV)	4-CC29-174
U4	MILLER CARL M & JOYCE A (SURV)	4-CC29-187
V4	ELLIOT JUSTIN R	4-CC29-202
W4	ELLIOT JUSTIN R	4-CC29-203
X4	HELSEL WILLIAM & FRANCES (SURV)	4-CC29-208
Y4	FLETCHER RICHARD T JR; PLATT JOEL L	4-CC29-214
Z4	TAYLOR CHARLES C JR & MICHELE L (JTWS)	4-CC29-215
A5	RYAN TIMOTHY A & SONDRAM	4-CC29-216
B5	KLAGES KEITH C	4-CC29-217
C5	HIGHLAND SPRINGS GOLF COURSE LLC	3-B29-6
D5	CONNOLLY BRIAN & TAMMY	4-CC29-219
E5	RUDLAND JOHN	4-CC29-220
F5	LYLE MONICA T	4-CC29-221
G5	RASZ MICHAEL RAYMOND	4-CC29-221.1
H5	MINOR LISA M	4-CC29-233
I5	L & M RENTALS LLC	4-CC29-234
J5	MILLS DARREN P	4-CC29-235
K5	SMITH RYAN M & BROOKE N	370-07-1.1
L5	HIGHLAND SPRINGS GOLF COURSE	370-07-06
M5	BRIGGS ROBERT G & NANCY L	370-07-02
N5	DEPETRO JOSEPH J III	370-11-09
O5	JACOBS LISA J & TERRY G	370-11-9.1
P5	BELLVIEW CAMP MEETING ASSO DAVID STONER (TREASURER)	370-07-3
Q5	CUNNINGHAM PAULA	370-07-4
R5	SENG RONALD BERNARD & JOANNE ALICE	370-11-06
S5	DEPETRO JOSEPH J III	370-11-9.2
T5	RUSH GARY	370-11-8
U5	CUNNINGHAM PAULA	370-12-02
V5	BROWNLEE ANDREA GEORGETTI	370-12-01
W5	BROWNLEE LAND VENT LP	370-11-1
X5	MULLINS JOHN JR	370-11-3.1
Y5	HENSLEY LOUIS W JR & MARGARET	3-B34-57
Z5	APPALACHIA MIDSTREAM SERVICES LLC	3-B34-66
A6	SHEERAN MARY L & CRAFT CUCARESE BEVERLY	3-B34-67
B6	WINTERS SHIRLEY (TOD) WINTERS ROBERT G (ETAL)	3-B34-68
C6	SONDA RICHARD L & SONDA HAROLD	3-B34-69
D6	HANNAHS FREDERICK L	3-B34-70
E6	HANNAHS FREDERICK L	3-B34-71
F6	HANNAHS FREDERICK L	3-B34-72
G6	THOMAS CHAD K & HANNAH R JTWS	3-B34-73
H6	THOMAS CHAD K & HANNAH R JTWS	3-B34-74
I6	THOMAS CHAD K & HANNAH R JTWS	3-B34-75
J6	KOSCEVIC MICHAEL T & SHERYL A (SURV)	3-B34-76
K6	FELTON DANIEL KEVIN	3-B34-79
L6	HIGHLAND SPRINGS GOLF COURSE LLC	3-B34-80
M6	ANKRUMERIN C. (ETAL)	3-B34-82
N6	MITCHELL MELANIE	3-B34-84
O6	HUNT WILLIAM CURTIS & SUSAN L (SURV) (TOD) SCOTT KRISTEN E	3-B34-7
P6	PAULL CHRISTOPHER J & MARY ELLEN (SURV)	3-B34-4
Q6	PAULL CHRISTOPHER J & MARY E (SURVIVORSHIP)	3-B34-3
R6	PAULL CHRISTOPHER J & MARY ELLEN (SURV)	3-B29-15.2
S6	DIAMOND JANA L	3-B29-15.1
T6	HONE MARK A & LAUREN MJTWS	3-B29-19
U6	HONE MARK A & LAUREN MJTWS	3-B29-20
V6	HONE MARK A & LAUREN MJTWS	3-B29-21
W6	SANFORD HARRY E; NEELY CHATMAN L (SURV)	3-B29-16
X6	CHIVERS NORMA E CHIVERS ALAN J. ETAL	3-B29-12
Y6	MALINKY KEITH & KIM	3-B29-22
Z6	CHIVERS NORMA E TOD CHIVERS ALAN J ETAL	3-B29-11
A7	SONDA HAROLD S & SHIRLEY J	3-B29-10
B7	SONDA HAROLD S & SHIRLEY	3-B29-9
C7	SKYWATCHER LINDA TOD SKYWATCHER DANIEL (ETAL)	3-B29-23
D7	JONES ZACHARY & MICHELE	3-B29-13
E7	FALBO PENNY	3-B29K-23
F7	FALBO PENNY	3-B29K-22
G7	CECCHINI MELANIE A	3-B29K-21
H7	VOJVODICIJ MARK D; MELISSA ANN	4-CC29-205
I7	BATES MELANIE	3-B29K-12
J7	BROWNLEE LAND VENTURES LP	3-B29K-11
K7	SMITH RONALD E & NANCY L (SURV)	3-B29K-10
L7	STROPE AARON H & BETH A (SURV)	3-B29K-9
M7	STROPE AARON H & BETH A (SURV)	3-B29K-8
N7	WALL ROBERT L	3-B29K-7
O7	FRESHWATER ROBERT LEE	4-CC29-182
P7	SCHERICH EARL L JR & MARTHA A (SURV)	4-CC29-179
Q7	EVERHART LARRY E & DEBORAH A	4-CC29-180
R7	ZUMPETTA JOHN L & KAREN R (SURV)	4-CC29-177
S7	FRESHWATER ROBERT LEE	4-CC-29-181
T7	GEORGETTI ANDREA M	3-B29K-5
U7	BROWNLEE LAND VENTURES LLC	3-B29K-4
V7	FRESHWATER ROBERT LEE	4-CC29-155

05/17/2024



REVISIONS:	COMPANY:		
	OPERATOR'S	STATE OF WV DNR C BRK	API:
	WELL #:	406H	47-009-06342
	DISTRICT:	CROSS CREEK	STATE:
		COUNTY:	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	RAY CLARISSA ANN	4-CC29-156
X7	TAYLOR CHARLES B SR & TONDA L (SURVIVORSHIP)	4-CC29-157
Y7	HAVELKA SANDRA K	4-CC29-158
Z7	BLUNDON A LEE & STEPHANIE J (SURV)	4-CC29-159
A8	REITTER PAUL & JENNIFER	4-CC29-161
B8	BLANKENSHIP PHILLIP E	4-CC29-153
C8	ODKAN HEATHER LEE	4-CC29-152.1
D8	CUNNINGHAM MARIANNE KATHLEEN	4-CC29-150
E8	CASINELLI JAMES MICHAEL	4-CC29-122
F8	DISERIO PAUL R & KATHY A (JTWS)	4-CC29-125.1
G8	CAMPBELL ERIC WILLIAM	4-CC29-119.1
H8	LANGLEY JOSEPH L & KATHLY JO (SURV)	4-CC29-116
I8	LANGLEY JOSEPH L & KATHLY JO (SURV)	4-CC29-115
J8	DEWITT STANLEY WILLIAM & KATELYNN ELLEN DAWN JTWS	4-CC29-107
K8	WALDEN JEFF	4-CC29-106
L8	HOFFMAN CHARLES	4-CC29-105
M8	MASON CAROLYN CHRISTINE	4-CC29-101
N8	RUGGIERI MICHAEL J	4-CC29-100.2
O8	RADICK RONALD R & CHRISTINE (SURV)	3-B29E-3
P8	DAYTON-WHITLATCH AMITY LAEL	3-B29E-2
Q8	RIGGS RONALD	4-CC29-99
R8	BALLATO CHRISTOPHER & RUTH (SURV)	4-CC29-95
S8	DONLEY KAREN J	4-CC29-95.1
T8	MCKEE URSON JASHU	4-CC29-87
U8	MCKEE URSON JASHU	4-CC29-88
V8	ELLIOTT BERNARD JR LE ELLIOTT BERNARD & LELA	4-CC29-66
W8	WOOD DAVID LACY	4-CC29-67
X8	HENTHORN CHRIS A & VALERIE JUNE (SURV)	4-CC29-18
Y8	SOBOTA WOODROW RYAN ASHLEY R (JTWS)	4-CC29-17.1
Z8	MALONEY CHARLES W & NANCY L (JTWS) (TOD)	4-CC29-16
A9	MCCONNAUGHY COLIN J HONE MORGAN (JTWS)	4-CC29-15
B9	PHILLIPS MARK A	4-CC29-13
C9	MALONEY CHARLES WAYNE & NANCY L (SURV) (TOD)	4-CC29-12
D9	WOOD CHRISTOPHER & MISTY M (JTWS)	4-CC29-10
E9	WOOD CHRISTOPHER D & MISTY M (SURV)	4-CC29-6
F9	VISYAK PATRICIA M	4-CC24-83
G9	HAMRICK HAROLD DEWAYNE	4-CC24-57
H9	COOKE DOUGLAS B	4-CC24-54.1
I9	KLAGES KEVIN W & LINDA K SURV	4-CC24-52
J9	KLAGES KEVIN W & LINDA K SURV	4-CC24-51
K9	GOOCH JUDITH L (ETAL)	4-CC24-49
L9	BRADLEY GEORGE L	4-CC24-132
M9	LEMASTERS DONALD & JOYCE (SURV)	4-CC24-23
N9	FIGUEROA KAIA	4-CC24-24
O9	BURDINE CALVIN G & BOYCE HANNA M (JTWS)	4-CC24-25
P9	LAUCK MARIE	4-CC24-26
Q9	KISNER EUGENE WILFRED & CYNTHIA KAY	4-CC24-20
R9	HUNTER DIXIE DARE (TOD) HUNTER ROBERT ANDREW	4-CC24-21
S9	MOORE FAMILY REV LIVING TRUST TRUS- RICHARD & TAMMY MOORE	4-CC24-4
T9	GEORGETTI RANDY V & TAMMY S (SURV)	4-CC24-22
U9	GOOCH JUDITH L	4-CC23-370
V9	SULLIVAN ARTHUR E JR	4-CC23-368
W9	SILVER CHARLES; HALSTEAD DONNA LIVINGOOD SHERRY (1/3)	4-CC23-327
X9	THOMPSON DEBRA J	4-CC23-320
Y9	BARONIO CURTIS R & DONNA J	4-CC23-321
Z9	COOK FAMILY REVOCABLE TRUST 4/20/17, MALSON SUSAN A	4-CC23-322
A10	MENEELY BOBBIE JO; MINICH RANDALL	4-CC23-324
B10	CARBASHO THOMAS & CALDWELL TINA	4-CC23-323
C10	POWER ADRIAN ELIZABETH & EMILJAMES LOPPE (JTWS)	4-CC19-185
D10	MOORE CHARLES D & CECILIA FAY (JTWS)	4-CC19-180
E10	KASPER PAUL & MITCHELL JENNIFER (JTWS)	4-CC19-174
F10	WILSON NORMA	4-CC19-175
G10	THOMAS FLORENCE M	4-CC19-173
H10	BLACK CLARENCE T JR & TAMMY L	4-CC19-186
I10	NOGA CODIE L & KATRINA MILLER	4-CC19-187
J10	D'AGOSTINO PETER	4-CC19-188
K10	NICKOLES GREGORY; RANDY; JEFFRE (LE-DANNY & GRACE NICKOLES)	4-CC19-160
L10	BAKER DAVID	4-CC19-164
M10	EMMERTH DOUGLAS P & PAMELA L JTWS	4-CC19-165
N10	STATE OF WEST VIRGINIA BUREAU OF COMMERCE DIV OF NAT RESOURC	4-CC19-168
O10	LANGEVIN GRETCHEN MOORE WESBANCO BANK INC	4-CC20-5
P10	MILLER JOHN ERNEST, JESSE ANDREW (SURV)	4-CC20-4
Q10	BREEN SUSAN D & DENNIS M	4-CC20-22
R10	COLLIERS SPORTSMAN CLUB	4-CC20-21
S10	ROUSE WILLIAM MORGAN & DORIS J	4-CC20-20
T10	BLACK LINDY L	4-CC20-7

*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 #:	406H	47-009-003#12	DRAWN BY: N. MANO
	DISTRICT:	CROSS CREEK	COUNTY:	SCALE: N/A
			STATE:	DRAWING NO:
			WV	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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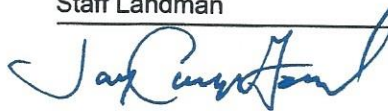
**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

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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EXHIBIT "A"

DNR C BRK 406H

Brooke County, West Virginia

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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-CC19-176	Pending	Rosa Marie Edgell, a widow	SWN Production Company, LLC	18.00%	64/256	0.00%
F10	4-CC19-175	Pending	Norma J. Wilson, a widow	SWN Production Company, LLC	18.00%	64/298	0.00%
8	4-CC23-325	Pending	Golden Eagle Resources II, LLC	SWN Production Company, LLC	18.00%	435/140	0.00%
9	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%

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		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%
/ 10	4-CC24-18	Pending	Randy L. Collins and Amy R. Collins, husband and wife	SWN Production Company, LLC	18.00%	64/262	0.00%
/ 11	4-CC24-19	777277\000	Janice Licht, a widow	SWN Production Company, LLC	18.00%	62/61	0.00%
/ 12	4-CC24-19.1	777357\000	Kathy L. Johnson, divorced	SWN Production Company, LLC	18.00%	62/1	0.00%
/ 13	4-CC24-28	778441\000	Sherry E. Coleman and Robert B. Coleman, wife and husband	SWN Production Company, LLC	18.00%	62/19	0.00%
/ 14	4-CC24-27	784029\000	Linda D. Mozingo, a widow	SWN Production Company, LLC	18.00%	62/656	0.00%
/ 15	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%
/ 19	4-CC24-52	736262\000	Kevin W. Klages and Linda K. Klades, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	18/462 30/480	0.00%
/ 16	4-CC24-56	746760\000	John Stevens and Linda Stevens, husband and wife	SWN Production Company, LLC	18.00%	35/120	0.00%
/ 17	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 30/480	0.00%
		736356\000	Sharon K. Riggs, a single woman	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	18/791 30/480	0.00%
/ 18	4-CC24-99	737782\001	Clayton W. Seiple and Lisa L. Seiple, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	24/298 30/480	0.00%
		737782\002	Kevin W. Seiple and Jill Kuhlman, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	24/649 30/480	0.00%
/ 19	4-CC24-84	Pending	Tamara Heffner	SWN Production Company, LLC	18.00%	65/103	0.00%
		Pending	Terri Heffner	SWN Production Company, LLC	18.00%	65/109	0.00%

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		747154/001	Kenneth M. Hart and Sandra C. Hart, husband and wife (Life Tenant)	SWN Production Company, LLC	18.00%	37/533	0.00%
/20	4-CC29-19	747154\002	Eric M. Hart (Remainderman)	SWN Production Company, LLC	18.00%	37/554	0.00%
		747154/003	Jeffrey M. Hart (Remainderman)	SWN Production Company, LLC	18.00%	37/547	0.00%
		747154/004	Kristopher B. Hart (Remainderman)	SWN Production Company, LLC	18.00%	37/540	0.00%
/21	Buckeys Hill Road, a/k/a Buckey Hill Road	Pending	West Virginia Department of Transportation, Division of H	SWN Production Company, LLC	20.00%	65/272	0.00%
/F3	4-CC29-21	Pending	Kristopher Brian Hart, married, dealing in his separate pro	SWN Production Company, LLC	18.00%	64/292	0.00%
/22	4-CC29-20	749032\000	Paul E. Skaggs III and Crystal D. Skaggs, husband and wife	SWN Production Company, LLC	18.00%	50/279	0.00%
/23	4-CC29-27	Pending	Harold B. Wood and Kelly J. Wood F/K/A Kelly J. Runyan	SWN Production Company, LLC	16.00%	64/654	0.00%
/V8	4-CC29-66	Pending	Lela R. Elliott, Life Estate, a widow; and Bernard R. Elliott, Jr., Remainderman	SWN Production Company, LLC	18.00%	64/237	0.00%
/24	4-CC29-28	Pending	Harold B. Wood and Kelly J. Wood F/K/A Kelly J. Runyan	SWN Production Company, LLC	16.00%	64/654	0.00%
/I3	4-CC29-29	Pending	Nikki A. Nazionale-Birkhimer f/k/a Nikki A. Nazionale and Michael Birkhimer, wife and husband	SWN Production Company, LLC	18.00%	64/702	0.00%
/25	4-CC29-65	Pending	Lela R. Elliott, Life Estate, a widow; and Bernard R. Elliott, Jr., Remainderman	SWN Production Company, LLC	18.00%	64/237	0.00%

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		748382\001	Matthew H. Fair and Robin C. Fair, husband and wife	SWN Production Company, LLC	18.00%	40/411	0.00%
U8	4-CC29-88	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%
26	4-CC29-64	749027\000	Robert R. Vincent and Becky L. Vincent, husband and wife	SWN Production Company, LLC	18.00%	50/552	0.00%
		748382\001	Matthew H. Fair and Robin C. Fair, husband and wife	SWN Production Company, LLC	18.00%	40/411	0.00%
27	4-CC29-90	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%
		748382\001	Matthew H. Fair and Robin C. Fair, husband and wife	SWN Production Company, LLC	18.00%	40/411	0.00%
M3	4-CC29-57	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%
28	4-CC29-92	748101\003	Kimberly Ann Wales and Mark Allen Wales, wife and husb	SWN Production Company, LLC	18.00%	62/209	0.00%
29	4-CC29-100	748212\000	Ronald Riggs, a single man	SWN Production Company, LLC	18.00%	44/286	0.00%
30	4-CC29-100 ?	746828\000	Diana Kim Gagich, a divorced woman	SWN Production Company, LLC	18.00%	37/471	0.00%

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		746875\000	Jonathan Gagich and Jessica Gagich, husband and wife	SWN Production Company, LLC	18.00%	37/311	0.00%
✓ 31	4-CC29-109	746828\000	Diana Kim Gagich, a divorced woman	SWN Production Company, LLC	18.00%	37/471	0.00%
✓ J8	4-CC29-107	749301\000	Kenneth S. Dewitt, a widower, Kenneth W. Dewitt a single	SWN Production Company, LLC	18.00%	52/33	0.00%
✓ I8	4-CC29-115	749608\000	Jacqueline DeMark, a widow, by her Attorney-In-Fact, Ror	SWN Production Company, LLC	17.00%	53/516	0.00%
✓ H8	4-CC29-116	749608\000	Jacqueline DeMark, a widow, by her Attorney-In-Fact, Ror	SWN Production Company, LLC	17.00%	53/516	0.00%
✓ P3	4-CC29-109.1	746875\000	Jonathan Gagich and Jessica Gagich, husband and wife	SWN Production Company, LLC	18.00%	37/311	0.00%
✓ 32	4-CC29-117.1	746828\000	Diana Kim Gagich, a divorced woman	SWN Production Company, LLC	18.00%	37/471	0.00%
✓ G8	4-CC29-119.1	746841\000	William Campbell and Belinda Campbell, husband and wife	SWN Production Company, LLC	18.00%	36/393	0.00%
✓ 33	4-CC29-119	746841\000	Eric William Campbell and Belinda Campbell, husband and	SWN Production Company, LLC	18.00%	36/393	0.00%
✓ 34	4-CC29-124	748136\000	Kurtis A. Diserio, a single man	SWN Production Company, LLC	16.00%	45/196	0.00%
✓ F8	4-CC29-125.1	748136\000	Kurtis A. Diserio, a single man	SWN Production Company, LLC	16.00%	45/196	0.00%
✓ 35	4-CC29-123	747784\000	Paul R. Diserio, a married man dealing in his sole and sepa	SWN Production Company, LLC	16.00%	39/686	0.00%
✓ U3	4-CC29-147	749217\000	Randy Filkins, a single man	SWN Production Company, LLC	18.00%	51/418	0.00%
✓ 36	4-CC29-149	749195\000	Janis Barna Reid, a widow	SWN Production Company, LLC	17.00%	51/505	0.00%
✓ C8	4CC29-152.1	749375\000	Lisa Lynn Holmes, nka, Lisa Lynn Filkins, and Heather Lee	SWN Production Company, LLC	18.00%	53/25	0.00%

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		748101\000	Paul S. Billiard and Carol A Billiard, husband and wife (Life	SWN Production Company, LLC	18.00%	44/63	0.00%
✓ 37	4-CC29-148	748101\001	Paul T. Billiard, a single man (Remainderman)	SWN Production Company, LLC	18.00%	44/77	0.00%
		748101\002	Timothy J. Billiard, a married man dealing in his sole and s	SWN Production Company, LLC	18.00%	44/84	0.00%
		748101\003	Kimberly A. Wales, a married woman dealing in her sole ai	SWN Production Company, LLC	18.00%	44/70	0.00%
✓ B8	4-CC29-153	748999\000	Phillip E. Blankenship and Margaret C. Blankenship, husba	SWN Production Company, LLC	18.00%	53/25	0.00%
✓ W3	4-CC29-142	749105\000	Geraldine A. Auber, aka, Geraldine Ann Auber, a widow	SWN Production Company, LLC	17.00%	51/191	0.00%
✓ 38	4-CC29-134	748576\000	Robert Freshwater, a single man	SWN Production Company, LLC	18.00%	46/658	0.00%
✓ 39	4-CC29-162	749083\000	Robert Lee Freshwater, a single man	SWN Production Company, LLC	18.00%	50/676	0.00%
✓ A8	4-CC29-161	749083\000	Robert Lee Freshwater, a single man	SWN Production Company, LLC	18.00%	50/676	0.00%
✓ N4	4-CC29-163	749083\000	Robert Lee Freshwater, a single man	SWN Production Company, LLC	18.00%	50/676	0.00%
✓ O4	4-CC29-173	749083\000	Robert Lee Freshwater, a single man	SWN Production Company, LLC	18.00%	50/676	0.00%
✓ 40	4-CC29-160	749083\000	Robert Lee Freshwater, a single man	SWN Production Company, LLC	18.00%	50/676	0.00%
✓ 41	4-CC29-155.1	749083\000	Robert Lee Freshwater, a single man	SWN Production Company, LLC	18.00%	50/676	0.00%
✓ 42	4-CC29-176	749083\000	Robert Lee Freshwater, a single man	SWN Production Company, LLC	18.00%	50/676	0.00%
✓ R7	4-CC29-177	749083\000	Robert Lee Freshwater, a single man	SWN Production Company, LLC	18.00%	50/676	0.00%

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✓ 43	4-CC29-175	749083\000	Robert Lee Freshwater, a single man	SWN Production Company, LLC	18.00%	50/676	0.00%
✓ 44	4-CC29-178	749083\000	Robert Lee Freshwater, a single man	SWN Production Company, LLC	18.00%	50/676	0.00%
✓ 45	4-CC29-183	746843\000	Hattie J. Welch, a widow	SWN Production Company, LLC	18.00%	36/741	0.00%
✓ 46	4-CC29-184	746843\000	Hattie J. Welch, a widow	SWN Production Company, LLC	18.00%	36/741	0.00%
✓ 47	4-CC29-185	748101\003	Kimberly Ann Wales and Mark Allen Wales, wife and husb	SWN Production Company, LLC	18.00%	62/209	0.00%
✓ 48	4-CC29-186.1	747473\000	Paul T. Billiard, a single man	SWN Production Company, LLC	18.00%	38/149	0.00%
✓ 49	4-CC29-186	747473\000	Paul T. Billiard, a single man	SWN Production Company, LLC	18.00%	38/149	0.00%
✓ W4	4-CC29-203	749024\001	Edward Ray Green and Linda M. Green, aka, Linda F. Gree	SWN Production Company, LLC	18.00%	50/271	0.00%
✓ 50	4-CC29-204	749103\000	Eric Kowcheck and Chanin Kowcheck, husband and wife	SWN Production Company, LLC	18.00%	50/287	0.00%
✓ H7	4-CC29-205	Pending	Mark D. Vojvodich and Melissa Ann Vojvodich, husband ai	SWN Production Company, LLC	18.00%	64/960	0.00%
✓ 51	4-CC29-206	747408\000	Robert W. Lounder and Valerie J. Lounder, husband and w	SWN Production Company, LLC	16.00%	39/38	0.00%
✓ 52	4-CC29-207	746858\000	William A. Helsel, a widower	SWN Production Company, LLC	16.00%	36/732	0.00%
		747946\000	Trustees of the First Presbyterian Church of Wellsburg	SWN Production Company, LLC	18.00%	41/764	0.00%
✓ Y4	4-CC29-214	747946\000	Trustees of the First Presbyterian Church of Wellsburg	SWN Production Company, LLC	18.00%	41/764	0.00%
✓ 53	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%

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✓ F7	3-B29K-22	748184\000	Penny Falbo, a single woman	SWN Production Company, LLC	18.00%	41/343	0.00%
✓ 54	3-B29-5	747946\000	Trustees of the First Presbyterian Church of Wellsburg	SWN Production Company, LLC	18.00%	41/764	0.00%
		748696\000	Charles M. Roberson and Dorothy F. Roberson, husband and wife	SWN Production Company, LLC	16.00%	41/.295	0.00%
✓ C5	3-B29-6	748184\000	Penny Falbo, a single woman	SWN Production Company, LLC	18.00%	41/343	0.00%
✓ 55	3-B29-7	747946\000	Trustees of the First Presbyterian Church of Wellsburg	SWN Production Company, LLC	18.00%	41/764	0.00%
✓ 56	3-B29-8	747946\000	Trustees of the First Presbyterian Church of Wellsburg	SWN Production Company, LLC	18.00%	41/764	0.00%
✓ 57	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%
✓ 58	3-B29-18	747946\000	Trustees of the First Presbyterian Church of Wellsburg	SWN Production Company, LLC	18.00%	41/764	0.00%
✓ 59	3-B34-78	785456\000	Ridgetop Appalachia, LLC, represented herein by Bradley J. Carpenter	SWN Production Company, LLC	18.00%	64/140	0.00%
✓ 60	370-7-5	Pending	Ridgetop Appalachia, LLC	SWN Production Company, LLC	18.00%	202314888	0.00%
✓ 61	370-11-4	Pending	Ridgetop Appalachia, LLC	SWN Production Company, LLC	18.00%	202325154	0.00%
✓ 62	370-11-7	Pending	Brownlee Land Ventures, L.P.	Range Resources – Appalachia, LLC	17.50%	201210964 202211614	0.00%
✓ 63	370-11-2	Pending	Kenneth Lee Taylor and Ann Marie Taylor, husband and w	Range Resources – Appalachia, LLC	17.00%	201311540 202211614	0.00%

05/17/2024



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

April 24, 2024

RECEIVED
Office of Oil and Gas

APR 11 2024

WV Department of
Environmental Protection

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 406H in Brooke County, West Virginia, Drilling under Cross Creek Road, Fowler Hill Road, Co HWY 27/11, Buckey Hill Road, Green Acres, Hideway Lane, Ritchie Drive, Briad Lane, Ohana Lane, Washington Pike, Shangri-La Lane, WV-88, and Spruce Road.

Dear Mr. Brewer:

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

Thank you.

Sincerely,

Cooper Farish, CPL
Staff Landman
SWN Production Company, LLC

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

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 **4700900342**
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 406H

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

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APR 11 2024

WV Department of
Environmental Protection

Business Conducted: Natural gas production.

Location –

State: West Virginia ✓ County: Brooke ✓
District: Cross Creek ✓ Quadrangle: Steubenville East ✓
UTM Coordinate NAD83 Northing: 4,461,407 ✓
UTM coordinate NAD83 Easting: 539,287 ✓
Watershed: North Fork Cross Creek- Cross Creek ✓

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

05/17/2024

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 406H
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>539,287.224</u>
County:	<u>009- Brooke</u>		Northing:	<u>4,461,406.567</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.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY <input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED <input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED <input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) <input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION <input checked="" type="checkbox"/> 5. PUBLIC NOTICE <input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		OOG OFFICE USE ONLY <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED
RECEIVED Office of Oil and Gas APR 11 2024 WV Department of Environmental Protection		

Required Attachments:

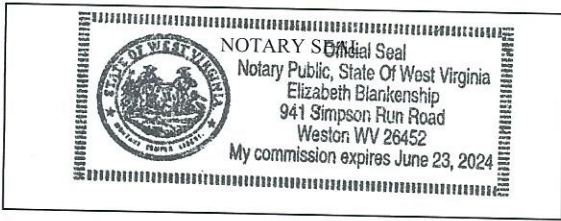
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication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

Certification of Notice is hereby given:

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

Well Operator: SWN Production Co., LLC
By: Brittany Woody
Its: Staff Regulatory Specialist
Telephone: 304-884-1610

Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Facsimile: 304-884-1690
Email: Brittany_Woody@swn.com



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

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

4700900342

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

Date of Notice: 4/10 **Date Permit Application Filed:** 4/10

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: RECEIVED Office of Oil and Gas

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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APR 11 2024
WV Department of
Environmental Protection

4700900342

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.

APR 11 2024

WV Department of Environmental Protection
Office of Oil and Gas

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

05/17/2024

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

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

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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WV Department of
Environmental Protection

05/17/2024

4700900342

API NO. 47- 009 -
OPERATOR WELL NO. State of WV DNR C BRK 406H
Well Pad Name: State of WV DNR C BRK

Notice is hereby given by:

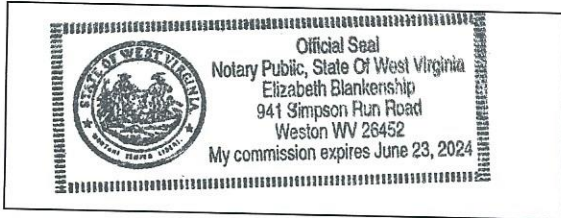
Well Operator: SWN Production Co., LLC
Telephone: 304-884-1610
Email: Brittany_Woody@swn.com

Brittany Woody

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

Oil and Gas Privacy Notice:

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



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

4700900342

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.

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

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

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

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

Oil and Gas Privacy Notice:

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

05/17/2024

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

4700900342

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

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

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
County: Brooke
District: Cross Creek
Quadrangle: Steubenville East, WV
Watershed: North Fork Cross Creek

UTM NAD 83 Easting: 539,287.224
Northing: 4,461,406.567
Public Road Access: Norfolk Cross Creek Run
Generally used farm name: State of WV DNR

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.

05/17/2024

4700900342



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APR 17 2024
WV Department of
Environmental Protection

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 406H 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

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

4700900342

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
Plexlick 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
Plexlick 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
		Didecyldimethylammonium 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

05/17/2024

4700900342

OPERATOR: SWN Production Co., LLC

WELL NO: State of WV DNR C BRK 406H

PAD NAME: State of WV DNR C BRK

REVIEWED BY: _____

SIGNATURE: Brittany Woody

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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

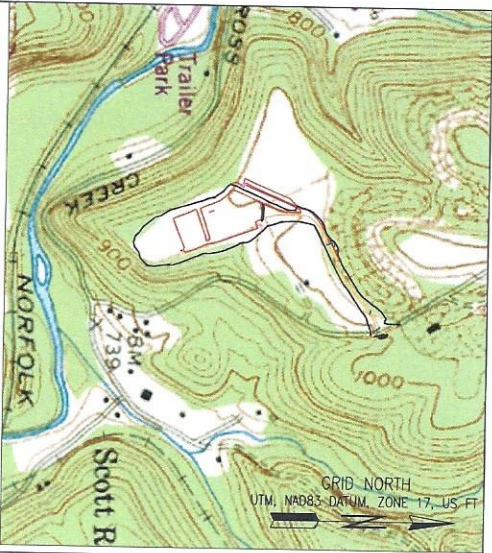
DEP Variance and Permit Conditions

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

05/17/2024



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: 40.305699
LONG: -80.534275

**AT State of
WV DNR, C. PAD**
(NAD83)
LAT: 40.302969
LONG: -80.537941

CENTER OF PAD
(NAD83)
LAT: 40.302308
LONG: -80.537797

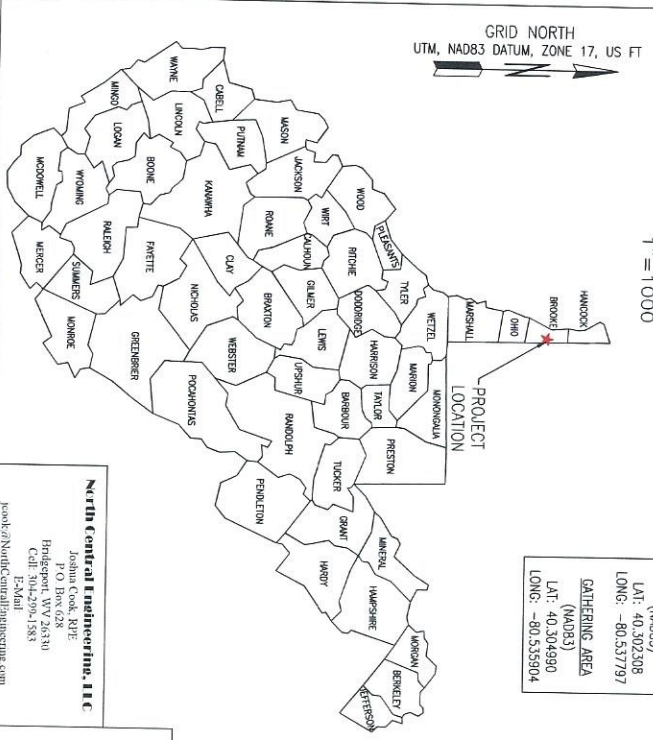
GATHERING AREA
(NAD83)
LAT: 40.304990
LONG: -80.535904

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

Engineering Estimate of Quantities

Well Site Pad Data (Drilling)	
Maintain Pad, Sumps, E&S Controls (Minimal)	1 Ea
Seed and Mulch	1000 SY
Access Road (Drilling)	
Maintain Road & Ditches	1 Ea
Clean Culvert Inlets/Outlets	1 Ea
Maintain E&S Controls	1 Ea
Road Ramp Additional	80 Ton
Well Site Pad Data (Redemption)	
Remove Sump	5 Ea
Breach Berm	5 Ea
Discharge Channels	140 Ton
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 E&S controls	1 Ea

PROPOSED WELL:	SHEET INDEX
State of WV DNR MSH 5H (047-009-00257) (NAD83) LAT: 40.302367 LONG: -80.537757	ISI: TITLE SHEET EP2.1 EVACUATION ROUTE/ PREWALING WIND EP2.2 EVACUATION ROUTE/ PREWALING WIND AS3.1 ASBUILT OVERVIEW AS3.2 ASBUILT AS3.3 ASBUILT
PROPOSED WELL: State of WV DNR MSH 6H (047-009-00316) (NAD83) LAT: 40.302315 LONG: -80.537734	ASR4.1 CONSTRUCTION AND RECLAMATION ACCESS ROAD PROFILE MR05.1 RECLAMATION PLAN OVERVIEW MR05.2 RECLAMATION PLAN MR05.3 RECLAMATION PLAN MR06.1 RECLAMATION DETAILS MR06.2 DETAILS
PROPOSED WELL: State of WV DNR MSH 8H (047-009-00310) (NAD83) LAT: 40.302393 LONG: -80.537768	
PROPOSED WELL: State of WV DNR MSH 10H (047-009-00309) (NAD83) LAT: 40.302341 LONG: -80.537745	



NETI Engineering, LLC
Joshua Cook, RPE
P.O. Box 628
Bridgeport, WV 26330
Cell: 304-299-1583
Fax: 304-299-1583
jcook@netiengineering.com



Joshua R. Cook RPE 17950

Date: 10-21-2020

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Office of Oil and Gas
APR 11 2024
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Environmental Protection

Shirley Spawr
3/19/2024



Jackson Surveying Inc.
TITLE SHEET
TS.1
SOUTHWESTERN PRODUCTION COMPANY LLC
STATE OF WV DNR C BRK PAD
CROSS CREEK DISTRICT, BROOKE COUNTY, WV
OCTOBER 21, 2020



WEST VIRGINIA 811
CALL BEFORE YOU DIG!
800.245.4848
www.wv811.com

05/17/2024