



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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Friday, August 21, 2020
WELL WORK PERMIT
Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC
POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit approval for OV ROYALTY TRUST LLC BRK 5H
47-009-00318-00-00

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

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

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

James A. Martin
Chief

Operator's Well Number: OV ROYALTY TRUST LLC B+
Farm Name: THE GENE CHARLES VALEN+
U.S. WELL NUMBER: 47-009-00318-00-00
Horizontal 6A New Drill
Date Issued: 8/21/2020

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. 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.

PERMIT CONDITIONS

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

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

1) Well Operator: SWN Production Co., LLC 494512924 009- Brooke 02-Cross 620-Steubenville
Operator ID County District Quadrangle

2) Operator's Well Number: OV Royalty Trust LLC BRK 5H Well Pad Name: OV Royalty Trust LLC BRK

3) Farm Name/Surface Owner: The Gene Charles Valentine Trust dated 11/26/66 Public Road Access: Rabbit Hill Road

4) Elevation, current ground: 1181' Elevation, proposed post-construction: 1181'

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

(b) If Gas Shallow Deep _____
Horizontal

6) Existing Pad: Yes or No Yes *C. J. H. 2.4.20*

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Target Formation- Marcellus, Up-Dip well to the North, Target Top TVD- 5727', Target Base TVD- 5793', Anticipated Thickness- 66', Associated Pressure- 3765

8) Proposed Total Vertical Depth: 5778'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 29,904'

11) Proposed Horizontal Leg Length: 23,654.31'

12) Approximate Fresh Water Strata Depths: 396'

13) Method to Determine Fresh Water Depths: Salinity calculations from OV Royalty 3H logs (API 47-009-00094)

14) Approximate Saltwater Depths: 512' Salinity Profile

15) Approximate Coal Seam Depths: 236'

16) Approximate Depth to Possible Void (coal mine, karst, other): Possible Void 236'

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

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(a) If Yes, provide Mine Info: Name: Gilchrist Labelle #3
Depth: 236'
Seam: Pittsburgh
Owner: Abandoned

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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	H-40	94#	100'	100'	CTS
Fresh Water	13 3/8"	New	H-40	48#	450'	450'	436 sx/CTS
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	1557'	1557'	601 sx/CTS
Production	5 1/2"	New	HCP-110	20#	29,904'	29,904'	<small>Lead 788w/Tell 5505sw/100' Inside Interval</small>
Tubing							
Liners							

CAL 24-20

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	1.19/50% Excess
Fresh Water	13 3/8"	17.5"	0.380	2740	633	Class A	1.19/50% Excess
Coal	See	Surface	Casing				
Intermediate	9 5/8"	12 1/4"	0.395	3950	1768	Class A	1.19/50% Excess
Production	5 1/2"	8 3/4"	0.361	12360	9500	Class A	1.20/50% Excess
Tubing							
Liners							

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PACKERS

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Kind:				
Sizes:				
Depths Set:				

WW-6B
(10/14)

API NO. 47- 009 **4700900318**
OPERATOR WELL NO. OV Royalty Trust LLC BRK 5H
Well Pad Name: OV Royalty Trust LLC BRK

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. The well is produced through surface facilities consisting of high pressure production unites, horizontal separation units, water and oil storage tanks. Max press and anticipated max rate- 9000 lbs @ 100 barrels a minute.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 26.76

22) Area to be disturbed for well pad only, less access road (acres): 9.81

23) Describe centralizer placement for each casing string:

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

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

See Attachment ***

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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.

Southwestern Energy Company

Proposed Drilling Program

Well: OV ROYALTY TRUST LLC BRK 5 Re-entry Rig: TBD
 Field: PANHANDLE FIELD WET Prospect: PANHANDLE
 County: BROOKE State: WV
 SHL: 40.2857 Latitude -80.5842 Longitude
 BHL: 40.3470 Latitude -80.6121 Longitude
 KB Elev: 1,207 ft MSL KB: 26 ft AGL GL Elev: 1,181 ft MSL



Coal Void at 235.6' TVD

PROD TOC Lead @ 1,577' MD

PROD TOC Tail @ 5,100' MD

TUBULAR DETAIL

	Size (in)	Weight	Grade	From	To
Conductor:	20	94.0 #	H-40	0'	100'
Surf./Coal:	13.375	48.0 #	H-40	0'	450'
Intermediate:	9.625	36.0 #	J-55	0'	1,557'
Production:	5.5	20.0 #	HCP-110	0'	29,904'

CEMENT DETAIL

	Sacks	Class	Density
Conductor	151	A	19.3
Surface	436	A	15.6
Intermediate	601	A	15.6
Production Lead	788	A	15.6
Production Tail	5505	A	15.6

0' to 470'
Air / Mist

470' to 1,577'
Air / Mist

1,577' to 5,503'
Air / Mist

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Air
TD at 5,503'

5,503' to 6,239'
12.5 - 12.8 ppg

6,239' to 29,904'
12.5 - 12.8 ppg

KOP at 5,503' MD

Freshwater Depth - 396' TVD

Coal Void Depth - 236' TVD

Saltwater Depth - 512' TVD

TVD - 5,778'

TMD - 29,904'

5,778' Target Center

TD at 29,904' MD

5,653' TVD

EOB at 5,778' TVD

SHL Onondaga 5,793' TVD

Onondaga 5,668' TVD

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) Painters Run of Buffalo 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 next anticipated well, API# will be included with the WR-34/DDMMR &/or permit addendum)
- 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 SOBMM 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

Apex Sanitary Landfill U6-U8438, Brooke Co SWF-1013,

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

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

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

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



Subscribed and sworn before me this 17th day of February, 20 20

Jessica L. Vangilder Notary Public

My commission expires 7-20-20

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Operator's Well No. OV Royalty Trust LLC BRK 5H

SWN Production Co., LLC

Proposed Revegetation Treatment: Acres Disturbed 26.76 Prevegetation pH _____

Lime as determined by pH test min.2 Tons/acre or to correct to pH 9.81

Fertilizer type 10-20-20

Fertilizer amount 600 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: _____

[Handwritten Signature] 11-6-19

Comments: _____

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Title: Oil & Gas Inspector

Date: 11-6-19

Field Reviewed?

Yes

No

Attachment 3A

CLOSED LOOP SYSTEM

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

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

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

AIR DRILLING INTERVALS

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

LIQUIDS DRILLING (FRESHWATER, BRINE, SOB M)

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

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WVD Seeding Specification

R⁺ A⁺ V⁺

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

NON-ORGANIC PROPERTIES

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

All legumes are inoculated at 5x normal rate

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

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

ORGANIC PROPERTIES

Seed Mixture: SWN Production Organic Mix	SWN Supplied
Organic Timothy	50%
Organic Red or White Clover	50%
OR	
Organic Perennial Ryegrass	50%
Organic Red or White Clover	50%

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

Apply @ 200lbs per acre Oct. 15th- April 15th

Organic Fertilizer @ 200lbs per Acre Pelletized Lime @ 2 Tons per Acre

WETLANDS (delineated as jurisdictional wetlands)

Seed Mixture: Wetland Mix SWN Supplied

VA Wild Ryegrass	20%
Annual Ryegrass	20%
Fowl Bluegrass	20%
Cosmos 'Sensation'	10%
Redtop	5%
Golden Tickseed	5%
Maryland Senna	5%
Showy Tickseed	5%
Fox Sedge	2.5%
Soft Rush	2.5%
Woolgrass	2.5%
Swamp Verbena	2.5%

Apply @ 25lbs per acre April 16th- Oct. 14th

Apply @ 50lbs per acre Oct. 15th- April 15th

SOIL AMENDMENTS

10-20-20 Fertilizer *Apply @ 500lbs per Acre

Pelletized Lime Apply @ 2 Tons per Acre

*unless otherwise dictated by soil test results

Seeding Calculation Information:

1452' of 30' ROW/LOD is One Acre

871' of 50' ROW/LOD is One Acre

622' of 70' ROW/LOD is One Acre

Synopsis:

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

Special Considerations:

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

NO FERTILIZER OR LIME INSIDE WETLAND LIMITS

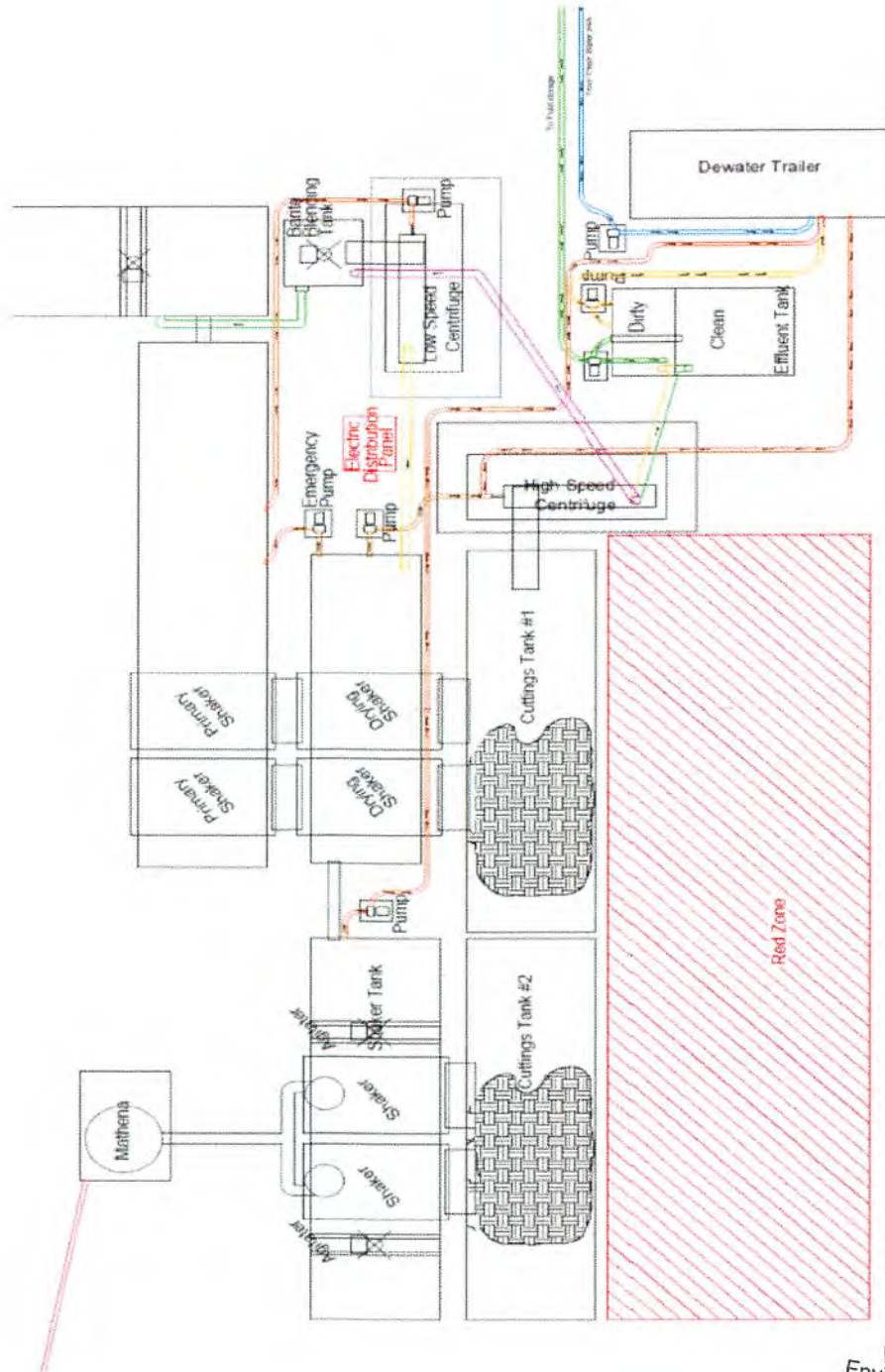
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EXAMPLE SCHEMATIC FOR CLOSED LOOP SOLIDS CONTROL SYSTEM



Solids Control Layout



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

JACKSON SURVEYING INC.

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

Latitude: 40°22'30" N

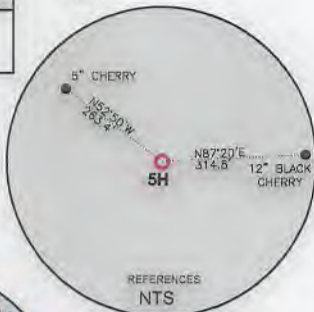
BOTTOM HOLE 8,026'

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,459,551.027
EASTING: 535,340.687

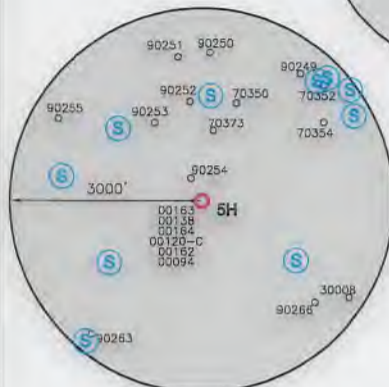
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,459,635.728
EASTING: 535,571.332

BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,466,348.010
EASTING: 532,939.382

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



REFERENCES
NTS



INSET
NTS

3,000' 0 3,000'

GRAPHIC SCALE IN FEET

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	S 57°03'25" W	1484.72'	SHL TO LANDMARK	FD. 1" IRON PIN
L2	N 12°01'42" E	1234.78'	SHL TO LANDMARK	FOUND STONE
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	N 69°50'06" E	806.12'	1532.57'	SHL TO LPL

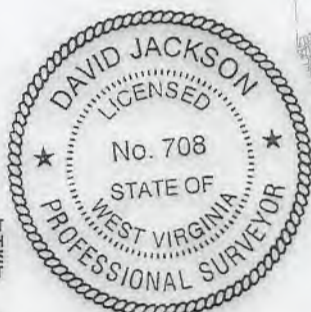
WELL RESTRICTIONS

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

NOTES ON SURVEY

1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
 2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
 4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.
- I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SH ALL THE INFORMATION REQUIRED BY LAW AND REGULATIONS IS AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECT

P.S. 708 David L Jackson



SHL

BOTTOM HOLE 10,188'

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BOTTOM HOLE 8,026'

COMPANY: **SWN** Production Company, LLC

OV ROYALTY TRUST LLC BRK

OPERATOR'S WELL #: 5H

API WELL #: 47 STATE 009 COUNTY 00318 PERMIT 46A

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

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

MINIMUM DEGREE OF ACCURACY: 1/200

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

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

WATERSHED: PAINTERS RUN OF BUFFALO CREEK (HUC-10) ELEVATION: 1180.6'

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

SURFACE OWNER: THE GENE CHARLES VALENTINE TRUST DATED 11/26/86 ACREAGE: ±494.38

OIL & GAS ROYALTY OWNER: THE GENE CHARLES VALENTINE TRUST DATED 11/26/86 ACREAGE: ±464.38

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: 5,778' TVD 29,904' TMD

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

DESIGNATED AGENT: BRITTANY WOODY
ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND:
 PROPOSED SURFACE HOLE / BOTTOM HOLE
 EXISTING / PRODUCING WELLHEAD
 LPL: LANDING POINT LOCATION
 EXISTING WATER WELL
 EXISTING SPRING
 SURVEYED BOUNDARY
 DRILLING UNIT
 LEASE BOUNDARY
 PROPOSED PATH

REVISIONS:
 REVISED MINGO ISLAND 03-02-2020
 ADDED INSET OF BHL 08-17-2020



DATE: 08-17-2020
 DRAWN BY: N. MANO
 SCALE: 1" = 3000'
 DRAWING NO:
 WELL LOCATION PLAT

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

DETAIL "A"

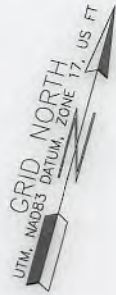


47-009-00318 H6A

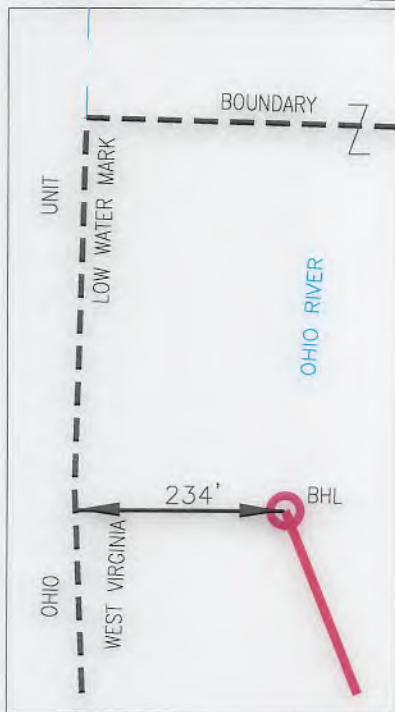
REVISIONS: ▲ REVISED MINGO ISLAND 03-02-2020 ▲ ADDED INSET OF BHL 08-17-2020		COMPANY: <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div>	
OPERATOR'S OV ROYALTY TRUST LLC BRK		DATE: 08-17-2020	
WELL #: 5H		DRAWN BY: N. MANO	
DISTRICT: CROSS CREEK		COUNTY: BROOKE	STATE: WV
		SCALE: N/A	
		DRAWING NO:	
		WELL LOCATION PLAT 2	

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

DETAIL "B"



DETAIL "C"



47-009-00318 H6A

REVISIONS:

- △ REVISED MINGO ISLAND 03-02-2020
- △ ADDED INSET OF BHL 08-17-2020

COMPANY:

SWN
 Production Company, LLC

SWN ^{R+} ^A ^{V+} [®]
 Production Company™

OPERATOR'S OV ROYALTY TRUST LLC BRK

DATE: 08-17-2020

WELL #: 5H

DRAWN BY: N. MANO

DISTRICT: CROSS CREEK

COUNTY: BROOKE

STATE: WV

SCALE: N/A

DRAWING NO:

WELL LOCATION PLAT 3

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

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	THE GENE CHARLES VALENTINE TRUST DATED 11/26/86 (S/R)	4-CC22-41
TRACT	SURFACE OWNER	TAX PARCEL
2	CHARLES KIRCHNER & JUDITH KIRCHNER ALLEMAN ET AL	4-CC23-230
3	CAROLYN F. FREEMAN	4-CC22-25
4	RON MICHAUX ET AL (LC JASON & DEANNA GALLOWAY)	4-CC22-22
5	ERIN N. SNODGRASS	4-CC22-21
6	DONALD C. TAYLOR JR. & JOAN WILLIAMS ET AL	4-CC22-20
7	JAMES DODD, ROBIN GEORGE, & JEANNE MCGILL	4-CC18-49
8	THOMAS M. BOYD, RICHARD A. BOYD, DAVID S. BOYD, TRUSTEES IN TRUST OF THOMAS J. BOYD	4-CC18-57
9	BOARD OF EDUCATION	4-CC18-33
10	BOARD OF EDUCATION	4-CC18-34
11	BOARD OF EDUCATION	4-CC18-35
12	BOARD OF EDUCATION	4-CC18-37
13	PITTSBURGH & WVW RAILWAY CO.	4-CC18-30
14	NORFOLK & WESTERN RAILWAY CO.	4-C19K-18
15	BOARD OF EDUCATION	4-CC18-31
16	BOFFO FAMILY LIMITED PARTNERSHIP	4-CC18-7
17	BOFFO FAMILY LIMITED PARTNERSHIP	4-CC18-5
18	BISHOP OF THE CATHOLIC DIOCESE WHEELING/CHARLESTON	4-CC18-2
19	ILONA POGGI	4-CC18-14
20	STATE OF WV	ROUTE 2
21	NORFOLK SOUTHERN RAILWAY COMPANY	RAILROAD
22	BELLAIRE HARBOR SERVICE LLC	5-F18C-4
23	STATE OF WV	OHIO RIVER
24	BUSINESS DEVELOPMENT CORP. OF THE NORTHERN PANHANDLE	5-F14L-181

47-009-00318 H6A

ADJOINING OWNERS TABLE			ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL	TRACT	SURFACE OWNER	TAX PARCEL
A	JAMES LUNSFORD	04-CC23-203	XX	DAVE CARBASHO & STEPHANIE CARBASHO	04-CC18-56
B	SCHIAPPA & COMPANY, INC.	04-CC28-2	YY	MARTIN J. BARTZ JR.	04-CC18-55
C	JOHN W. & NANCY TRAUBERT	04-CC23-234	ZZ	CAROL REED	04-CC22-1
D	PAUL LISH & PATRICIA ANN LISH	04-CC22-50	AAA	EARL D. PRICE & LINDA L. ROSSER	04-C22C-163
E	OV ROYALTY TRUST LLC	04-CC22-49	BBB	MYRTLE COX NURMI (1/4 INT) & OTHERS (1/2 INT)	04-CC18-39
F	RONALD CONAWAY, DONALD CONAWAY, PATRICIA CONAWAY	04-CC22-47	CCC	THOMAS M. BOYD, RICHARD A. BOYD, DAVID S. BOYD, TRUSTEES IN TRUST OF THOMAS J. BOYD	04-CC18-58
G	SAMUEL J. & MELANIE A. DONINI	04-CC22-45			
H	LOUIS M. & TINA L. MCGOWAN	04-CC22-44	DDD	USA	04-CC18-38
I	TINA L. MCGOWAN	04-CC22-43	EEE	PITTSBURGH & WVA RAILWAY CO.	04-CC18-29
J	MICHAEL E. FRIEND	04-CC22-42	FFF	NORFOLK & WESTERN RAILWAY CO.	04-CC18-28
K	JOHN C. BOBER III & JENNIFER R. BOBER	07-W22L-18	GGG	PITTSBURGH & WVA RAILWAY CO.	04-CC18-27
L	UNKNOWN	07-W22L-17	HHH	PITTSBURGH & WVA RAILWAY CO.	04-CC18-21
M	RICHARD L. FRYER	07-W22L-11	III	BELLAIRE HARBOR SERVICES LLC (LE REBECCA JOHNSON)	04-CC18-20
N	CHRISTINE L. ICE	07-W22L-8	JJJ	BELLAIRE HARBOR SERVICES LLC (LE REBECCA JOHNSON)	04-CC18-19
O	CHRISTINE L. ICE	07-W22L-9	KKK	BELLAIRE HARBOR SERVICES LLC (LE REBECCA JOHNSON)	04-CC18-18
P	CHRISTINE L. ICE	07-W22L-10	LLL	MOUNTAIN STATE CARBON LLC	05-F10-14.3
Q	LARRY N. CLEMONS & SANDRA K. CLEMONS	07-W22L-4	MMM	KOPPERS INDUSTRIES INC	05-F14-14.1
R	UNKNOWN	07-W22L-5	NNN	TRIMODAL TERMINAL LP	05-F14G-1
S	WILLIAM RIGGS	04-C22G-82	OOO	TRIMODAL TERMINAL LP	05-F14G-133
T	ROBERT J. ZAMPINI	04-C22G-81	PPP	TRIMODAL TERMINAL LP	05-F14L-1
U	ROBERT J. ZAMPINI	04-C22G-80	QQQ	WHEELING NISSHIN INC	05-F14L-3
V	T.H. CALDWELL HEIRS	04-C22G-79	RRR	CITY OF FOLLANSBEE	05-F14L-3.1
W	JACKIE RAY COLLEY & ROBERTA G. COLLEY	04-C22G-64	SSS	CITY OF FOLLANSBEE	05-F14L-4
X	JACKIE COLLEY & ROBERTA G. COLLEY	04-C22G-63	TTT	CITY OF FOLLANSBEE	05-F14R-1
Y	FRANKLIN FRAGALE	07-W22G-7	UUU	CITY OF FOLLANSBEE	05-F14R-2
Z	JOHN WHITE, ROBERT WHITE, SHARON FREY, LE KATHRYN WHITE & RALPH WHITE, JEFFERY WHITE	07-W22G-5	VVV	WHEELING NISSHIN INC.	05-F14R-3.1
AA	JOHN WHITE, ROBERT WHITE, SHARON FREY, LE KATHRYN WHITE & RALPH WHITE, JEFFERY WHITE	04-C22G-8	WWW	BUSINESS DEVELOPMENT CORP. OF THE NORTHERN PANHANDLE	05-F14R-3
BB	DAVID R. ROTHWELL & WYNONNA ROTHWELL	04-C22G-19	XXX	BUSINESS DEVELOPMENT CORP. OF THE NORTHERN PANHANDLE	05-F14R-58
CC	DAVID ROGER ROTHWELL C/O JOHN BASSETT	04-C22G-20	YYY	BUSINESS DEVELOPMENT CORP. OF THE NORTHERN PANHANDLE	05-F14R-59
DD	JUDITH L. FOWLER	04-C22G-31			
EE	VIRGINIA PRICE	04-C22G-33	ZZZ	CITY OF FOLLANSBEE	05-F14R-60
FF	GEORGE ENNIS	04-C22G-44	AAAA	BUSINESS DEVELOPMENT CORP. OF THE NORTHERN PANHANDLE	05-F14R-61
GG	GEORGE F. ENNIS	04-C22G-45			
HH	EARL W. MILLER JR.	04-C22G-46	BBBB	BUSINESS DEVELOPMENT CORP. OF THE NORTHERN PANHANDLE	05-F14R-62
II	MARK KOSEVIC	04-C22G-32			
JJ	TERRY L. SMITH & LORA J. SMITH	04-C22C-122	CCCC	BUSINESS DEVELOPMENT CORP. OF THE NORTHERN PANHANDLE	05-F14R-63
KK	FRANK CARUSO & LISA C. CARUSO	04-C22G-60			
LL	CHARLES R. BOGGS	04-C22G-57	DDDD	WILLIAM C. BAIRD III & CYNTHIA BAIRD	05-F14R-64
MM	CHARLES ISINGHOOD SR.	04-CC22-32	EEEE	WILLIAM C. BAIRD III & CYNTHIA BAIRD	05-F14R-65
NN	JIMMIE D. GEORGE & ROBIN J. GEORGE	04-CC22-31	FFFF	RONALD G. LODGE	05-F18C-1
OO	DALE E. ADAMS & MARY K. ADAMS	04-CC22-30	GGGG	CHARLES L. SHUTE & CATHERINE SHUTE	05-F18C-2
PP	STEVEN P. DIPASQUALE & MARCY DIPASQUALE	04-CC22-26	HHHH	BRIAN P. SHUTE	05-F18C-3
QQ	SCOTT E. MITCHELL	04-CC22-27	IIII	BROOKS YEATER	05-F18C-10
RR	JAY M. BEATTY & BARBARA BEATTY	04-CC22-28	JJJJ	SYLVIA J. BENZIO	05-F18C-9
SS	DONALD E. CLEM SR. & LINDA A. CLEM	04-CC22-19	KKKK	SYLVIA J. BENZIO	05-F18C-8
TT	DUANE TAYLOR & DANA TAYLOR	04-CC22-20.2	LLLL	RENEE M. ALLMAN	05-F18C-7
UU	DUANE EDWARD TAYLOR & DANA ANN TAYLOR	04-CC22-20.1	MMMM	RENEE M. ALLMAN	05-F18C-6
VV	ROBERT E. LOUDIN	04-CC22-13	NNNN	DOLORES J. DESTEFANO	05-F18C-5
WW	DUANE R. TAYLOR JR.	04-CC22-2	OOOO	BELLAIRE HARBOR SERVICES LLC (LE REBECCA JOHNSON)	04-CC18-17

REVISIONS:

- △ REVISED MINCO ISLAND 03-02-2020
- △ ADDED INSET OF BHL 08-17-2020

COMPANY:

SWN
Production Company, LLC

SWN ^{REVISED}
Production Company™

OPERATOR'S OV ROYALTY TRUST LLC BRK

DATE: 08-17-2020

WELL #: 5H

DRAWN BY: N. MANO

DISTRICT: CROSS CREEK

COUNTY: BROOKE

STATE: WV

SCALE: N/A



DRAWING NO:

WELL LOCATION PLAT 4

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

ADJOINING OWNERS TABLE			ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL	TRACT	SURFACE OWNER	TAX PARCEL
PPPP	DANIEL PATRICK LOMBARDI	04-CC18-16	CCCCCC	JEFFREY SCOTT YOUNG & MELANIE DAWN MAXWELL	04-C19A-106
QQQQ	DANIEL P. LOMBARDI	04-CC18-15	DDDDDD	WILLIAM D. SECRIST JR.	04-C19A-116.1
RRRR	DANIEL A. KLINE	05-F18C-39	EEEEEE	RICK SNYDER & ESTHER SNYDER	04-C19A-117
SSSS	RANDY M. MCCALLISTER JR.	05-F18C-38	FFFFFF	VERA HUNT BOFFO	04-C19A-137
TTTT	MATT C. SECRIST & KYLEE D. SECRIST	05-F18C-37	GGGGGG	JADE M. WEEKS & CHRISTOPHER D. WEEKS	04-C19A-138
UUUU	DENISE A. MOSSER	05-F18C-36	HHHHHH	BARBARA GEARY	04-C19A-146
VVVV	ILONA POGGI	04-CC18-01	IIIIII	JAMES H. JONES JR., KEVIN JONES, CORDER JONES, DIANNA L. JONES,	04-C19E-4
WWWW	MARK D. DESIMONE & PENNY J. DESIMONE	04-C14S-34	JJJJJJ	CHRISTINE A. BEARD ROSNOVICH & GEORGE B. ROSNOVICH	04-C19E-5
XXXX	GEORGE KOKOS	04-C14S-35	KKKKKK	DARRELL HENLINE & DONNA HENLINE	04-C19E-6
YYYY	MICHAEL J. BINE	04-C14S-48	LLLLLL	REBECCA S. BELL, THOMAS C. BELL	04-C19E-7
ZZZZ	MARK A. TENNANT & CHARITY C. TENNANT	04-C14S-49	MMMMMM	REBECCA S. BELL, THOMAS C. BELL	04-C19E-9
AAAA	COLUMBIA GAS	04-CC18-3	NNNNNN	DONALD P. MCABEE, DENA D. MCABEE	04-C19E-10
BBBB	CITY OF FOLLANSBEE	04-CC18-4	OOOOOO	JEFFERY LOUIS FODOR & DREMA DAWN FODOR	04-C19E-12
CCCC	LG-OHI FOLLANSBEE, LLC	04-CC18-8	PPPPPP	JOSHUA A. HOOKER, JOSEPH C. HOOKER, LE BETH HOOKER	04-C19E-14
DDDD	JAC-FRED WV LLC A NORTH CAROLINA LLC	04-CC18-6	QQQQQQ	RALPH W. ROWLAND & WILDA K. ROWLAND	04-C19E-17
EEEE	LG-OHI FOLLANSBEE, LLC	04-CC18-9	RRRRRR	VIRGINIA L. HADDON	04-C19E-19
FFFF	LG-OHI FOLLANSBEE, LLC	04-CC18-10	SSSSSS	DONALD K. NORCROSS, LAURA R. NORCROSS BARNES	04-C19E-24
GGGG	JAC-FRED WV LLC A NORTH CAROLINA LLC	04-CC18-11	TTTTTT	JACKIE L. FRITZ & KEVIN M. FRITZ	04-C19E-27
HHHH	KENT ORBAN	04-CC18-12	UUUUUU	BOARD OF EDUCATION	04-CC19-38
IIII	RODNEY B. & MARY K. MASON	04-C14S-18	VVVVVV	BOFFO FAMILY LIMITED PARTNERSHIP	04-CC18-32
JJJJ	MICHAEL EICHNER & LINDA S. EICHNER	04-C14S-74	WWWWWW	NORFOLK & WESTERN RAILWAY CO.	04-C19K-18
KKKK	MICHAEL EICHNER & LINDA S. EICHNER	04-C14S-75	XXXXXX	BOARD OF EDUCATION	04-CC18-36
LLLL	CARL FREDERICK BOFFO	04-C14S-76	YYYYYY	BROOKE COUNTY COMMISSION	04-CC19-193
MMMM	TERRY L. FRANKENFIELD & CHERYL L. FRANKENFIELD	04-C14S-77	ZZZZZZ	BOARD OF EDUCATION	04-CC19-38.1
NNNN	STEPHEN PRITCHARD & BARBARA PRITCHARD	04-C14S-78	AAAAAA	JAMES BURNS & RANDY COLLINS	04-CC19-14
OOOO	DAVID W. BARNHART & PAMELA A. BARNHART	04-C14S-79	BBBBBB	H3 LLC	04-CC19-36
PPPP	RAYMOND H. MCCOY JR. & CYNTHIA S. MCCOY	04-C14S-80	CCCCCC	CLARENCE T. BLACK, JR. & TAMMY L. BLACK	04-CC19-35
QQQQ	RICHARD C. DEARTH & STACEY A. DEARTH	04-C14S-81.1	DDDDDD	RANDY KOWALCZYK & LINDA LOUSIE KOWALCZYK	04-CC19-34
RRRR	BRIAN BEATTY	04-C14S-81.2	EEEEEE	RANDY KOWALCZYK & LINDA LOUSIE KOWALCZYK	04-CC19-33
SSSS	BRIAN L. BEATTY	04-C14S-219	FFFFFF	RANDY KOWALCZYK & LINDA LOUSIE KOWALCZYK	04-CC19-32
TTTT	BRIAN L. BEATTY	04-C14S-226	GGGGGG	TERRY R. JOHNSON & BETH ANN JOHNSON	04-CC19-28
UUUU	CHRISTOPHER O. RAY & KAREN L. RAY	04-C14S-225	HHHHHH	RICHARD E. RYAN & CAROLYN G. RYAN	04-CC19-27
VVVV	MARK & DAWN BARBETTA	04-C14S-222	IIIIII	TRAVIS JAMES MCALEER & KAREN A. PIEHS	04-CC19-26
WWWW	MARK & DAWN BARBETTA	04-C14S-81.4	JJJJJJ	PHYLLIS MARKER	04-CC18-41
XXXX	MICHAEL P. ROKSANDICH & KELLY J. ROKSANDICH	04-C14S-81.3	KKKKKK	JOHN P. HOSLER & GERALDINE HOSLER	04-CC18-42
YYYY	GARY L. WILLIAMS & SHARON J. WILLIAMS	04-C14S-84	LLLLLL	JAMES D. BUCHWACH	04-CC18-43
ZZZZ	AARON BURCH	04-C14S-97	MMMMMM	JEAN SHIRLEY DOUBLES	04-CC18-44
AAAA	BONNIE S. SHAW	04-C14S-98	NNNNNN	ROBIN L. HIMMERLICK (LE ELLA MAE HAYMEN)	04-CC18-45
BBBB	CARL BOFFO	04-C14S-128	OOOOOO	GARY HENTHORN	04-CC18-46
CCCC	JAC-FRED WV LLC A NORTH CAROLINA LLC	04-C14S-129	PPPPPP	ROBIN L. HIMMERLICK (LE ELLA MAE HAYMEN)	04-CC18-47
DDDD	JAC-FRED WV LLC A NORTH CAROLINA LLC	04-C14S-130	QQQQQQ	JAMES DODD, ROBIN GEORGE, JEANNIE MCGILL	04-CC18-48
EEEE	JAC-FRED WV LLC A NORTH CAROLINA LLC	04-C14S-131	RRRRRR	JAMES DODD, ROBIN GEORGE, JEANNIE MCGILL	04-CC18-52
FFFF	LAURA M. FRIEND	04-C14S-132	SSSSSS	JAMES DODD, ROBIN GEORGE, JEANNIE MCGILL	04-CC18-53
GGGG	ERNEST C. FRIEND JR. & ROSALIND FRIEND	04-C14S-153	TTTTTT	DANIEL MCGOWAN & MARJORIE G. MCGOWAN	04-CC19-6
HHHH	JAMES R. BINGEL SR.	04-C14S-152	UUUUUU	DONNA MARIE PRICE	04-CC22-23
IIII	RAY L. ADAMS & LISA M. ADAMS	04-C14S-133	VVVVVV	JAMES HARWELL DODD & LYNN I. DODD	04-CC22-24
JJJJ	RONALD C. PENROD & JUDITH A. PENROD	04-C14S-134	WWWWWW	CAROLYN F. KIRCHNER	04-CC23-233
KKKK	CHARLES LOPEZ & AURORA LOPEZ	04-C14S-135	XXXXXX	CAROLYN F. FREEMAN & LAWRENCE FREEMAN	04-CC23-232
LLLL	SHIRLEY M. KIRTLEY	04-C14S-136	YYYYYY	DORIS J. KIRCHNER	04-CC23-231
MMMM	MEGAN E. PINTUS	04-C14S-137	ZZZZZZ	FLOYD E. TAYLOR, SR. RHONDE C. TAYLOR	04-CC23-4
NNNN	TIFFANY WILLIAMS	04-C14S-138	AAAAAA	SHAWN CALDWELL	04-CC23-3
OOOO	BRIAN L. SMITH & DAWN E. SMITH	04-C14S-139	BBBBBB	FLOYD EUGENE TAYLOR SR. & RHONDA C. TAYLOR	04-CC23-5
PPPP	JOHN M. KUZMA & PATRICIA A. KUZMA	04-C14S-140	CCCCCC	DONALD R. HALL & BEVERLY J. HALL	04-CC23-7
QQQQ	ELMER SANDRETH JR. & REBECCA SANDRETH	04-C14S-141	DDDDDD	DONALD R. HALL & BEVERLY J. HALL	04-CC23-8
RRRR	THOMAS E. BOREMAN & SHARON BOREMAN	04-C14S-142	EEEEEE	DONALD R. HALL & BEVERLY J. HALL	04-CC23-9
SSSS	THOMAS E. BOREMAN & SHARON BOREMAN	04-C14S-223	FFFFFF	ROBERT EVAN MOZINGO, HERBERT MOZINGO, JEFFERY MOZINGO, CHRISTINE STEIN	04-CC23-11
TTTT	GARY W. POWELL	04-C14S-143	GGGGGG	HENRY CUNNINGHAM	04-CC23-225
UUUU	HAROLD WAUGH & SHIRLEY WAUGH	04-C14S-174	HHHHHH	HENRY CUNNINGHAM	04-CC23-226.1
VVVV	HAROLD WAUGH & SHIRLEY WAUGH	04-C14S-175	IIIIII	ROD E. PATTISON & CYNTHIA A. PATTISON	04-CC23-227
WWWW	HAROLD WAUGH & SHIRLEY WAUGH	04-C14S-176	JJJJJJ	RANDALL P. DOLL & KIMBERLY JO DOLL	04-CC23-204
XXXX	CITY OF FOLLANSBEE	04-C14S-177	KKKKKK	DONNA KATHRYN HALL	04-CC23-229
YYYY	TERESA CIONNI	04-C15N-58			
ZZZZ	NORMA B. TRAUBERT, ET AL	04-C15N-77			
AAAA	SHERI A. STIFT	04-C15N-87			
BBBB	DEAN RICHARDSON & SHARON RICHARDSON	04-C19A-10			

47-009-00318 H6A

REVISIONS: ▲ REVISED MINGO ISLAND 03-02-2020 ▲ ADDED INSET OF BHL 08-17-2020	COMPANY:  
OPERATOR'S OV ROYALTY TRUST LLC BRK	DATE: 08-17-2020
WELL #: 5H	DRAWN BY: N. MANO
DISTRICT: CROSS CREEK	SCALE: N/A
COUNTY: BROOKE	DRAWING NO.:
STATE: WV	WELL LOCATION PLAT 5

WW-6A1
(5/13)

Operator's Well No. OV ROYALTY TRUST LLC BRK 5H

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

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
See Exhibit "A"				

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

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

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

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

Well Operator: SWN Production Company, LLC.

By: Bailey Brougher

Its: Landman - SW Appalachia

EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, Operator
 OV Royalty Trust LLC BRK 5H
 Brooke County, West Virginia

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG
1) ✓	04-CC22-0041-0000	Gene Charles Valentine Trust dated November 26, 1986 and all amendments thereto	Great Lakes Energy Partners, L.L.C. Range Resources -- Appalachia LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	10/121 20/733 10/552 30/480
2) ↓	04-CC23-0230-0000	H3 LLC, a West Virginia Limited Liability Company, by Michael E. Hoeft, its Manager SWN Production Company, LLC (Company Owned Minerals)	SWN Production Company, LLC	18.00%	53/245 396/555 (Mineral Deed)
3) ✓	04-CC22-0025-0000	H3 LLC, a West Virginia Limited Liability Company, by Michael E. Hoeft, its Manager SWN Production Company, LLC (Company Owned Minerals)	SWN Production Company, LLC	18.00%	54/265 396/555 (Mineral Deed)
4) ✓	04-CC22-0022-0000	Donald R. Michaux AKA Donald Ray Michaux and Shirley R. Michaux AKA Shirley Rae Michaux, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	14/126 30/480
5) ✓	04-CC22-0021-0000	Donald R. Michaux AKA Donald Ray Michaux and Shirley R. Michaux AKA Shirley Rae Michaux, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	14/126 30/480
6) ✓	04-CC22-0020-0000	Donald C. Taylor and Christina M. Taylor, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	10/690 30/480
7) ✓	04-CC18-0049-0000	Eunice Jeanne Dodd, widow	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	11/448 30/480
8) ✓	04-CC18-0057-0000	The Thomas J. Boyd Trust, Heather E. Boyd, Successor Co-Trustee and Marjorie P. Boyd, Successor Co-Trustee	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	21/68 30/480
9) ✓	04-CC18-0033-0000	Brooke County Board of Education, a West Virginia Public Corporation	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	26/181 30/480
10) ✓	04-CC18-0034-0000	Brooke County Board of Education, a West Virginia Public Corporation	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	26/181 30/480
11) ✓	04-CC18-0035-0000	Brooke County Board of Education, a West Virginia Public Corporation	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	26/181 30/480
12) ✓	04-CC18-0037-0000	Brooke County Board of Education, a West Virginia Public Corporation	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	26/181 30/480

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13) ✓	04-CC18-0030-0000	Wheeling & Lake Erie Railway Company, a Delaware corporation, sublessee of the Pittsburgh & West Virginia Railway Company	SWN Production Company, LLC	18.00%	53/702
14) ✓	04-C19K-0018-0000	Wheeling & Lake Erie Railway Company, a Delaware corporation, sublessee of the Pittsburgh & West Virginia Railway Company	SWN Production Company, LLC	18.00%	53/702
15) ✓	04-CC18-0031-0000	Brooke County Board of Education, a West Virginia Public Corporation	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	26/181 30/480
16) ✓	04-CC18-0007-0000	The Boffo Family Limited Partnership, a West Virginia Limited Partnership	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	17.00%	13/469 30/480
17) ✓	04-CC18-0005-0000	The Boffo Family Limited Partnership, a West Virginia Limited Partnership	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	17.00%	13/470 30/480
18) ✓	04-CC18-0002-0000	BOFFO FAMILY, L.P., whose mailing address is 420 Lynn St., Follansbee, West Virginia 26037, represented herein by Carl Frederick Boffo, Managing General Partner	SWN Production Company, LLC	18.00%	53/696
19) ✓	04-CC18-0014-0000	Vespy Poggi and Ilona Poggi, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	11/612 30/480
20) ✓	State Route 2	West Virginia Department of Transportation, Division of Highways	SWN Production Company, LLC	20.00%	56/202
21) ✓	Railroad	Norfolk Southern Railway Company, a Virginia corporation	SWN Production Company, LLC	18.00%	56/706
22) ✓	05-F18C-0004-0000	Bellair Harbor Services, LLC, an Ohio Limited Liability Company, represented herein by Robert Harrison, Sole Member	SWN Production Company, LLC	18.00%	55/788
23) ✓	Ohio River	State of West Virginia, Department of Commerce, Division of Natural Resources	SWN Production Company, LLC	20.00%	56/710
24) ✓	05-F14L-0181-0000	Business Development Corporation of the Northern Panhandle	SWN Production Company, LLC	18.00%	58/633

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

July 15, 2020

Ms. Laura Adkins
WV DEP Office of Oil & Gas
601 57th St., SE
Charleston, WV 25304

RE: SWN's proposed New Well: OV Royalty Trust LLC BRK 5H in Brooke County, West Virginia, Drilling under Cross Creek Road and Rabbit Hill Road.

Dear Ms. Adkins:

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 and Rabbit Hill 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,

Bailey Brouger
Landman
SWN Production Company, LLC

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

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

Date of Notice Certification: 7/16

API No. 47- 009 -
Operator's Well No. OV Royalty Trust LLC BRK 5H
Well Pad Name: OV Royalty Trust LLC 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>535340.687</u>
County: <u>009- Brooke</u>	UTM NAD 83 Northing: <u>4459551.027</u>
District: <u>Cross Creek</u>	Public Road Access: <u>Rabbit Hill Road</u>
Quadrangle: <u>Steubenville East</u>	Generally used farm name: <u>OV Royalty Trust LLC BRK</u>
Watershed: <u>Painters run of Buffalo Creek</u>	

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

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

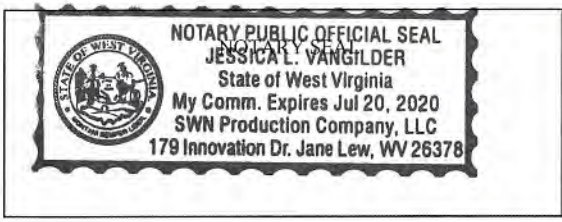
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication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

Certification of Notice is hereby given:

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

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

Brittany Woody



Subscribed and sworn before me this 17th day of October, 2019
Jessica L. VanGilder Notary Public
 My Commission Expires 7-20-20

Oil and Gas Privacy Notice:

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

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

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

Date of Notice: 7/16 **Date Permit Application Filed:** 7/16
Notice of:

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

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

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

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

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

SURFACE OWNER(s)
Name: The Gene Charles Valentine Trust of 11/26/86
Address: PO Box 31
Wellsburg, WV 26070

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: OV Royalty Trust LLC
Address: PO Box 31
Wellsburg, WV 26070

COAL OPERATOR
Name: _____
Address: _____

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

Name: None
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
Address: _____

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WV Department of Environmental Protection

*Please attach additional forms if necessary

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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

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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Office of Oil and Gas
JUL 17 2010
WV Department of
Environmental Protection

WW-6A
(8-13)

API NO. 47-009 **4700900318**
OPERATOR WELL NO. OV Royalty Trust LLC BRK 318
Well Pad Name: OV Royalty Trust LLC BRK

Notice is hereby given by:

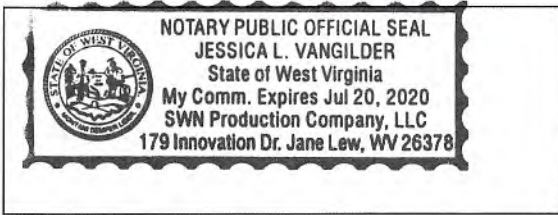
Well Operator: SWN Production Co., LLC
Telephone: 304-884-1610
Email: Brittany_Woody@swn.com

Brittany Woody

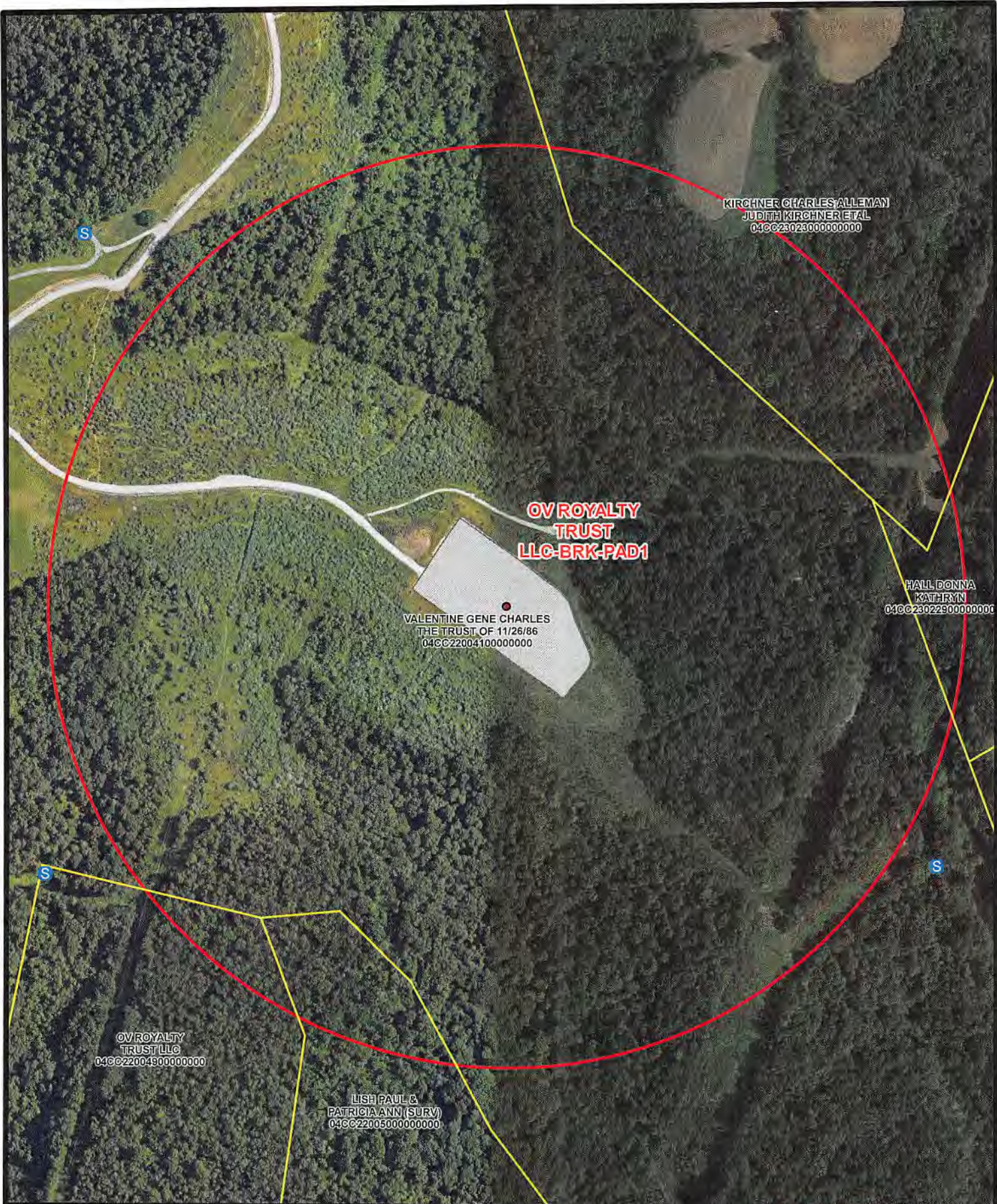
Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Facsimile: 304-884-1690


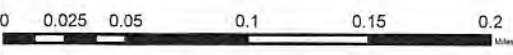
Oil and Gas Privacy Notice:

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 deprivacyofficer@wv.gov.







Subscribed and sworn before me this 17th day of Oct., 2019.
Jessica L. Vangilder Notary Public
My Commission Expires 7-20-20




 1 in = 417 ft




 Coordinate System: NAD 1983 UTM Zone 17N
 Units: Meter

 Spring  Parcel Boundary
 Water Well  1500' Buffer
 Pond

JUL 17 2020
 WV Department of
 Environmental Protection

Coordinates: 40.285451, -80.58024

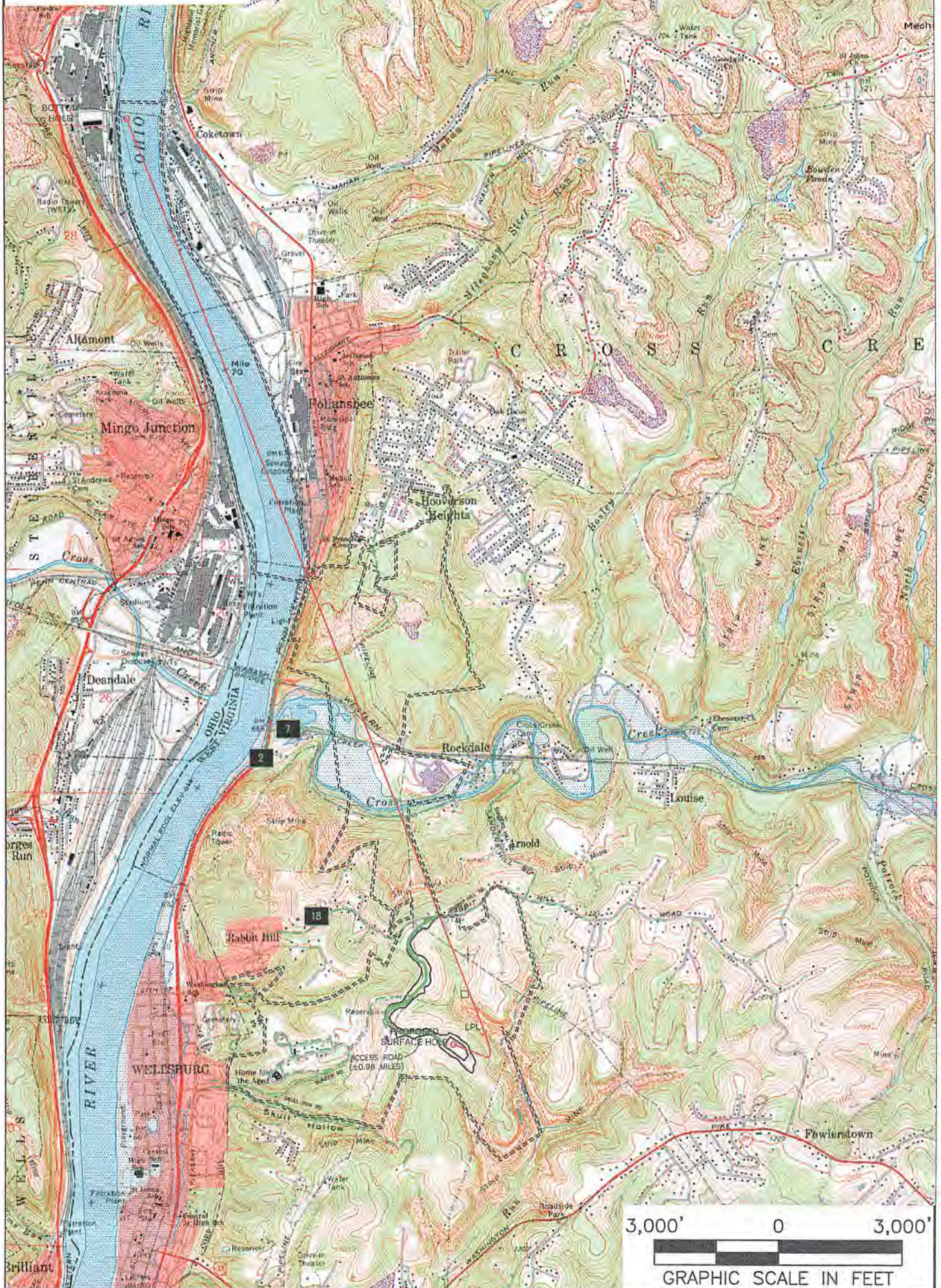
Water Purveyor Map
 Well Pad: OV ROYALTY TRUST LLC
 County: BRK

 
 Southwestern Energy®

Date: 10/9/2019 Author: willisb

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

4700000918



NOTES ON SURVEY

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

LEGEND:

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

WELL OPERATOR:
 SWN PRODUCTION COMPANY, LLC

ADDRESS:
 1300 FORT PIERPONT ROAD, SUITE 200 MORGANTOWN, WV 26508

SURFACE OWNER:
 THE GENE CHARLES VALENTINE TRUST DATED 11/26/86

WELL (FARM) NAME:
 OV ROYALTY TRUST LLC BRK

WELL #
 5H

COUNTY - CODE
 BROOKE - 009

DISTRICT;
 CROSS CREEK

USGS 7 1/2 QUADRANGLE MAP NAME
 STUEBENVILLE EAST, WV

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: 9/30/2019 **Date of Planned Entry:** 10/7/2019

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

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

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

Notice is hereby provided to:

SURFACE OWNER(S)

Name: OV Royalty Trust

Address: PO Box 31
Wellsburg, WV 26070

Name: _____

Address: _____

Name: _____

Address: _____

COAL OWNER OR LESSEE

Name: OV Royalty Trust

Address: PO Box 31
Wellsburg, WV 26070

MINERAL OWNER(S)

Name: OV Royalty Trust

Address: PO Box 31
Wellsburg, WV 26070

*please attach additional forms if necessary

Notice is hereby given:

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

State: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>40.285455, -80.583997</u>
County: <u>Brooke</u>	Public Road Access: <u>Rabbit Hill Road</u>
District: <u>Buffalo</u>	Watershed: <u>Lower Buffalo Creek</u>
Quadrangle: <u>Steubenville East</u>	Generally used farm name: <u>OV Royalty Trust LLC</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

RECEIVED
Office of Oil and Gas
JUL 17 2020
WV Department of
Environmental Protection

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

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

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

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Notice is hereby provided to:

SURFACE OWNER(s)
Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: _____
Address: _____

MINERAL OWNER(s)
Name: Mary Beth Barrett
Address: 4009 Patriot Road SE
Amsterdam, OH 43903
*please attach additional forms if necessary

Notice is hereby given:

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

State: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>40.285455, -80.583997</u>
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District: <u>Buffalo</u>	Watershed: <u>Lower Buffalo Creek</u>
Quadrangle: <u>Steubenville East</u>	Generally used farm name: <u>OV Royalty Trust LLC</u>

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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

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Office of Oil and Gas
JUL 17 2020
WV Department of
Environmental Protection

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

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

Date of Notice: 9/30/2019 **Date of Planned Entry:** 10/7/2019

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

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

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Notice is hereby provided to:

SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: _____
Address: _____

MINERAL OWNER(s)

Name: Family Tree Corporation
Address: PO Box 260498
Lakewood, CO 80226

*please attach additional forms if necessary

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Office of Oil and Gas
JUL 17 2020
Department of Environmental Protection

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District:	<u>Buffalo</u>	Watershed:	<u>Lower Buffalo Creek</u>
Quadrangle:	<u>Staubenville East</u>	Generally used farm name:	<u>OV Royalty Trust LLC</u>

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Notice is hereby given by:

Well Operator:	<u>SWN PRODUCTION COMPANY, LLC</u>	Address:	<u>1300 Fort Pierpont Dr., Suite 201</u>
Telephone:	<u>304-884-1610</u>		<u>Morgantown, WV 26508</u>
Email:	<u>Brittany_Woody@swn.com</u>	Facsimile:	<u>304-884-1690</u>

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

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

Date of Notice: 9/30/2019 **Date of Planned Entry:** 10/7/2019

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

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Notice is hereby provided to:

SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: _____
Address: _____

MINERAL OWNER(s)

Name: Jan Chamberlain
Address: 2915 Glenwood Ave
Moundsville, WV 26041

*please attach additional forms if necessary

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District:	<u>Buffalo</u>	Watershed:	<u>Lower Buffalo Creek</u>
Quadrangle:	<u>Steubenville East</u>	Generally used farm name:	<u>OV Royalty Trust LLC</u>

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Telephone: 304-884-1610
Email: Brittany_Woody@swn.com

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

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Office of Oil and Gas
JUL 17 2020
WV Department of Environmental Protection

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Notice is hereby provided to:

- SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

- COAL OWNER OR LESSEE

Name: _____
Address: _____

- MINERAL OWNER(s)

Name: Deborah C. Collins
Address: 16355 Log Cabin Road
Athens, WV 15611

*please attach additional forms if necessary

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District:	<u>Buffalo</u>	Watershed:	<u>Lower Buffalo Creek</u>
Quadrangle:	<u>Steubenville East</u>	Generally used farm name:	<u>OV Royalty Trust LLC</u>

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Telephone: 304-884-1610
Email: Brittany_Woody@swn.com

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

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JUL 17 2020

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WW-6A3
(1/12)

STATE OF WEST VIRGINIA
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Notice is hereby provided to:

SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: _____
Address: _____

MINERAL OWNER(s)

Name: Christina M. Garrett
Address: 73 Lake Road
Valley Grove, WV 26060

*please attach additional forms if necessary

RECEIVED
Office of Oil and Gas

JUL 17 2020

WV Department of
Environmental Protection

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Facsimile: 304-884-1690

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

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF 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: 9/30/2019 **Date of Planned Entry:** 10/7/2019

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

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

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

Notice is hereby provided to:

SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: _____
Address: _____

MINERAL OWNER(s)

Name: Alicia Howard
Address: 12 Cobblestone Drive
Valley Grove, WV 26060
*please attach additional forms if necessary

Notice is hereby given:

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

State: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>40.285455, -80.583997</u>
County: <u>Brooke</u>	Public Road Access: <u>Rabbit Hill Road</u>
District: <u>Buffalo</u>	Watershed: <u>Lower Buffalo Creek</u>
Quadrangle: <u>Steubenville East</u>	Generally used farm name: <u>OV Royalty Trust LLC</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

RECEIVED
Office of Oil and Gas
JUL 17 2020
WV Department of
Environmental Protection

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

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

Date of Notice: 9/30/2019 **Date of Planned Entry:** 10/7/2019

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

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

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Notice is hereby provided to:

SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: _____
Address: _____

MINERAL OWNER(s)

Name: Tara Keely
Address: PO Box 247
Great Valley, NY 14741
*please attach additional forms if necessary

Notice is hereby given:

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

State: West Virginia
County: Brooke
District: Buffalo
Quadrangle: Steubenville East

Approx. Latitude & Longitude: 40.285455, -80.583997
Public Road Access: Rabbit Hill Road
Watershed: Lower Buffalo Creek
Generally used farm name: OV Royalty Trust LLC

RECEIVED
Office of Oil and Gas
JUL 17 2020
WV Department of Environmental Protection

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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

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

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

Date of Notice: 9/30/2019 **Date of Planned Entry:** 10/7/2019

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

- PERSONAL SERVICE
 REGISTERED MAIL
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Notice is hereby provided to:

SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: _____
Address: _____

MINERAL OWNER(s)

Name: Burton R. Lauck
Address: 6067 Ferris Road
Eaton Rapids, MI 48827
*please attach additional forms if necessary

Notice is hereby given:

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

State: West Virginia
County: Brooke
District: Buffalo
Quadrangle: Steubenville East

Approx. Latitude & Longitude: 40.285455, -80.583997
Public Road Access: Rabbit Hill Road
Watershed: Lower Buffalo Creek
Generally used farm name: OV Royalty Trust LLC

RECEIVED
Office of Oil and Gas
JUL 17 2020

WV Department of
Environmental Protection

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Telephone: 304-884-1610
Email: Brittany_Woody@swn.com

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

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

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

Date of Notice: 9/30/2019 **Date of Planned Entry:** 10/7/2019

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

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

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

Notice is hereby provided to:

SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: _____
Address: _____

MINERAL OWNER(s)

Name: Curtis J. Lauck
Address: 403 E. Elizabeth Street
Eaton Rapids, MI 48827

*please attach additional forms if necessary

RECEIVED
Office of Oil and Gas
JUL 17 2020

Notice is hereby given:

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

State:	<u>West Virginia</u>	Approx. Latitude & Longitude:	<u>40.285455, -80.583997</u>
County:	<u>Brooke</u>	Public Road Access:	<u>Rabbit Hill Road</u>
District:	<u>Buffalo</u>	Watershed:	<u>Lower Buffalo Creek</u>
Quadrangle:	<u>Steubenville East</u>	Generally used farm name:	<u>OV Royalty Trust LLC</u>

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Notice is hereby given by:

Well Operator:	<u>SWN PRODUCTION COMPANY, LLC</u>	Address:	<u>1300 Fort Pierpont Dr., Suite 201</u>
Telephone:	<u>304-884-1610</u>		<u>Morgantown, WV 26508</u>
Email:	<u>Brittany_Woody@swn.com</u>	Facsimile:	<u>304-884-1690</u>

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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: 9/30/2019 **Date of Planned Entry:** 10/7/2019

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

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

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Notice is hereby provided to:

SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: _____
Address: _____

MINERAL OWNER(s)

Name: Randal J. Lauck
Address: 3786 Delano Drive
Eaton Rapids, MI 48827

*please attach additional forms if necessary

Notice is hereby given:

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

State: West Virginia
 County: Brooke
 District: Buffalo
 Quadrangle: Steubenville East

Approx. Latitude & Longitude: 40.285455, -80.583997
 Public Road Access: Rabbit Hill Road
 Watershed: Lower Buffalo Creek
 Generally used farm name: OV Royalty Trust LLC

RECEIVED
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JUL 17 2020
WV Department of
Environmental Protection

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Notice is hereby given by:

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 Telephone: 304-884-1610
 Email: Brittany_Woody@swn.com

Address: 1300 Fort Pierpont Dr., Suite 201
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**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY**

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

Date of Notice: 9/30/2019 **Date of Planned Entry:** 10/7/2019

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

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

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Notice is hereby provided to:

SURFACE OWNER(s)
 Name: _____
 Address: _____

 Name: _____
 Address: _____

 Name: _____
 Address: _____

COAL OWNER OR LESSEE
 Name: _____
 Address: _____

MINERAL OWNER(s)
 Name: Alfred C. Leist
 Address: 3366 Edgewood Drive
Wooster, OH 44691
 *please attach additional forms if necessary

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District:	<u>Buffalo</u>	Watershed:	<u>Lower Buffalo Creek</u>
Quadrangle:	<u>Steubenville East</u>	Generally used farm name:	<u>OV Royalty Trust LLC</u>

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Notice is hereby given by:

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Telephone:	<u>304-884-1610</u>		<u>Morgantown, WV 26508</u>
Email:	<u>Brittany_Woody@swn.com</u>	Facsimile:	<u>304-884-1690</u>

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 JUL 17 2020
 WV Department of
 Environmental Protection

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

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Notice is hereby provided to:

SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: _____
Address: _____

MINERAL OWNER(s)

Name: Frederic Scott Makara
Address: 1529 Round Bottom Hill Road
Moundsville, WV 26041
*please attach additional forms if necessary

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District:	<u>Buffalo</u>	Watershed:	<u>Lower Buffalo Creek</u>
Quadrangle:	<u>Steubenville East</u>	Generally used farm name:	<u>OV Royalty Trust LLC</u>

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Notice is hereby provided to:

SURFACE OWNER(s)
 Name: _____
 Address: _____

 Name: _____
 Address: _____

 Name: _____
 Address: _____

COAL OWNER OR LESSEE
 Name: _____
 Address: _____

 MINERAL OWNER(s)
 Name: George Michael Makara
 Address: 36 Fuller Road
Moundsville, WV 26041
 *please attach additional forms if necessary

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 District: Buffalo
 Quadrangle: Steubenville East

Approx. Latitude & Longitude: 40.285455, -80.583997
 Public Road Access: Rabbit Hill Road
 Watershed: Lower Buffalo Creek
 Generally used farm name: OV Royalty Trust LLC

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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: 9/30/2019 **Date of Planned Entry:** 10/7/2019

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

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

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

Notice is hereby provided to:

SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: _____
Address: _____

MINERAL OWNER(s)

Name: Cynthia McCloskey
Address: 3210 West Buttford Ave
Greenfield, WI 53221

*please attach additional forms if necessary

Notice is hereby given:

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

State:	<u>West Virginia</u>	Approx. Latitude & Longitude:	<u>40.285455, -80.583997</u>
County:	<u>Brooke</u>	Public Road Access:	<u>Rabbit Hill Road</u>
District:	<u>Buffalo</u>	Watershed:	<u>Lower Buffalo Creek</u>
Quadrangle:	<u>Steubenville East</u>	Generally used farm name:	<u>CV Royalty Trust LLC</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, 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

RECEIVED
Office of Oil and Gas
JUL 17 2020
WV Department of
Environmental Protection

Oil and Gas Privacy Notice:

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

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: 9/30/2019 **Date of Planned Entry:** 10/7/2019

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

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

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Notice is hereby provided to:

- SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

- COAL OWNER OR LESSEE

Name: _____
Address: _____

- MINERAL OWNER(s)

Name: Garnet Midcap
Address: 4019 Fish Creek Road
Proctor, WV 26055

*please attach additional forms if necessary

Notice is hereby given:

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

State:	<u>West Virginia</u>	Approx. Latitude & Longitude:	<u>40.285455, -80.583997</u>
County:	<u>Brooke</u>	Public Road Access:	<u>Rabbit Hill Road</u>
District:	<u>Buffalo</u>	Watershed:	<u>Lower Buffalo Creek</u>
Quadrangle:	<u>Steubenville East</u>	Generally used farm name:	<u>OV Royalty Trust LLC</u>

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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

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

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

Date of Notice: 9/30/2019 **Date of Planned Entry:** 10/7/2019

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

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

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Notice is hereby provided to:

SURFACE OWNER(s)
 Name: _____
 Address: _____

 Name: _____
 Address: _____

 Name: _____
 Address: _____

COAL OWNER OR LESSEE
 Name: _____
 Address: _____

MINERAL OWNER(s)
 Name: Grace M. Midcap
 Address: 11321 Cedar Springs Road
Blakely, GA 39823
 *please attach additional forms if necessary

Notice is hereby given:

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State:	<u>West Virginia</u>	Approx. Latitude & Longitude:	<u>40.285455, -80.583997</u>
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District:	<u>Buffalo</u>	Watershed:	<u>Lower Buffalo Creek</u>
Quadrangle:	<u>Steubenville East</u>	Generally used farm name:	<u>OV Royalty Trust LLC</u>

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 Telephone: 304-884-1610
 Email: Brittany_Woody@swn.com

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

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

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

Date of Notice: 9/30/2019 **Date of Planned Entry:** 10/7/2019

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

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

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Notice is hereby provided to:

SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: _____
Address: _____

MINERAL OWNER(s)

Name: Jerry Wayne Midcap
Address: PSC 473 Box 8
FPO AP, 96349
*please attach additional forms if necessary

Notice is hereby given:

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State:	<u>West Virginia</u>	Approx. Latitude & Longitude:	<u>40.285455, -80.583997</u>
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District:	<u>Buffalo</u>	Watershed:	<u>Lower Buffalo Creek</u>
Quadrangle:	<u>Steubenville East</u>	Generally used farm name:	<u>OV Royalty Trust LLC</u>

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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

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

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

Date of Notice: 9/30/2019 **Date of Planned Entry:** 10/7/2019

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

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

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Notice is hereby provided to:

SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: _____
Address: _____

MINERAL OWNER(s)

Name: Paul Alan Midcap
Address: 115 Karen Drive
Washington, PA 15301
*please attach additional forms if necessary

Notice is hereby given:

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District: <u>Buffalo</u>	Watershed: <u>Lower Buffalo Creek</u>
Quadrangle: <u>Steubenville East</u>	Generally used farm name: <u>OV Royalty Trust LLC</u>

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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

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WV Department of
Environmental Protection

**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: 9/30/2019 **Date of Planned Entry:** 10/7/2019

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

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 REGISTERED MAIL
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Notice is hereby provided to:

SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: _____
Address: _____

MINERAL OWNER(s)

Name: David Brent Queen
Address: 51-25th Street
Wellsburg, WV 26070

**please attach additional forms if necessary*

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District: <u>Buffalo</u>	Watershed: <u>Lower Buffalo Creek</u>
Quadrangle: <u>Steubenville East</u>	Generally used farm name: <u>OV Royalty Trust LLC</u>

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Facsimile: 304-884-1690

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

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Notice is hereby provided to:

SURFACE OWNER(s)
Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: _____
Address: _____

MINERAL OWNER(s)
Name: Jason Bradley Queen
Address: 100 Valley View Drive
Follansbee, WV 26037

*please attach additional forms if necessary

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JUL 17 2020
WV Department of
Environmental Protection

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District:	<u>Buffalo</u>	Watershed:	<u>Lower Buffalo Creek</u>
Quadrangle:	<u>Steubenville East</u>	Generally used farm name:	<u>OV Royalty Trust LLC</u>

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Notice is hereby given by:

Well Operator:	<u>SWN PRODUCTION COMPANY, LLC</u>	Address:	<u>1300 Fort Pierpont Dr., Suite 201</u>
Telephone:	<u>304-884-1610</u>		<u>Morgantown, WV 26508</u>
Email:	<u>Brittany_Woody@swn.com</u>	Facsimile:	<u>304-884-1690</u>

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WW-6A3
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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY

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Notice is hereby provided to:

SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: _____
Address: _____

MINERAL OWNER(s)

Name: Judy A. Snodgrass
Address: 12041 Wilshire Ave
La Habra, CA 90631

*please attach additional forms if necessary

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JUL 17 2020

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Environmental Protection

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District:	<u>Buffalo</u>	Watershed:	<u>Lower Buffalo Creek</u>
Quadrangle:	<u>Steubenville East</u>	Generally used farm name:	<u>OV Royalty Trust LLC</u>

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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: 9/30/2019 **Date of Planned Entry:** 10/7/2019

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

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

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

Notice is hereby provided to:

SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: _____
Address: _____

MINERAL OWNER(s)

Name: Aaron Wheeler
Address: 4726 S Airport Road, Apt. C
Roy, UT 84067

**please attach additional forms if necessary*

RECEIVED
Office of Oil and Gas
JUL 17 2020

WV Department of
Environmental Protection

Notice is hereby given:

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

State:	<u>West Virginia</u>	Approx. Latitude & Longitude:	<u>40.285455, -80.583997</u>
County:	<u>Brooke</u>	Public Road Access:	<u>Rabbit Hill Road</u>
District:	<u>Buffalo</u>	Watershed:	<u>Lower Buffalo Creek</u>
Quadrangle:	<u>Steubenville East</u>	Generally used farm name:	<u>OV Royalty Trust LLC</u>

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

Notice is hereby given by:

Well Operator:	<u>SWN PRODUCTION COMPANY, LLC</u>	Address:	<u>1300 Fort Pierpont Dr., Suite 201</u>
Telephone:	<u>304-884-1610</u>		<u>Morgantown, WV 26508</u>
Email:	<u>Brittany_Woody@swn.com</u>	Facsimile:	<u>304-884-1690</u>

Oil and Gas Privacy Notice:

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

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

Date of Notice: 9/30/2019 **Date of Planned Entry:** 10/7/2019

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

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

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Notice is hereby provided to:

SURFACE OWNER(s)
Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: _____
Address: _____

MINERAL OWNER(s)
Name: Douglas Wheeler
Address: 2211 Calvin Drive
Bellevue, NE 68123
*please attach additional forms if necessary

RECEIVED
Office of Oil and Gas
JUL 17 2020
WV Department of
Environmental Protection

Notice is hereby given:

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

State:	<u>West Virginia</u>	Approx. Latitude & Longitude:	<u>40.285455, -80.583997</u>
County:	<u>Brooke</u>	Public Road Access:	<u>Rabbit Hill Road</u>
District:	<u>Buffalo</u>	Watershed:	<u>Lower Buffalo Creek</u>
Quadrangle:	<u>Steubenville East</u>	Generally used farm name:	<u>OV Royalty Trust LLC</u>

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Telephone:	<u>304-884-1610</u>		<u>Morgantown, WV 26508</u>
Email:	<u>Brittany_Woody@swn.com</u>	Facsimile:	<u>304-884-1690</u>

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STATE OF WEST VIRGINIA **47 0 0 9 0 0 3 1 8**
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: 9/30/2019 **Date of Planned Entry:** 10/7/2019

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

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 METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

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Notice is hereby provided to:

SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: _____
Address: _____

MINERAL OWNER(s)

Name: Edward Wheeler
Address: 1010 Julia Circle
Bainbridge, GA 39819

*please attach additional forms if necessary

RECEIVED
Office of Oil and Gas
JUL 17 2020
WV Department of
Environmental Protection

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State:	<u>West Virginia</u>	Approx. Latitude & Longitude:	<u>40.285455, -80.583997</u>
County:	<u>Brooke</u>	Public Road Access:	<u>Rabbit Hill Road</u>
District:	<u>Buffalo</u>	Watershed:	<u>Lower Buffalo Creek</u>
Quadrangle:	<u>Steubenville East</u>	Generally used farm name:	<u>OV Royalty Trust LLC</u>

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Telephone:	<u>304-884-1610</u>		<u>Morgantown, WV 26508</u>
Email:	<u>Brittany_Woody@swn.com</u>	Facsimile:	<u>304-884-1690</u>

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

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

Date of Notice: 9/30/2019 **Date of Planned Entry:** 10/7/2019

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

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

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Notice is hereby provided to:

SURFACE OWNER(s)
 Name: _____
 Address: _____

 Name: _____
 Address: _____

 Name: _____
 Address: _____

COAL OWNER OR LESSEE
 Name: _____
 Address: _____

MINERAL OWNER(s)
 Name: Emmett Wheeler
 Address: 31518 Plank Lane
DeLand, FL 32720
 *please attach additional forms if necessary

RECEIVED
Office of Oil and Gas
JUL 17 2020
WV Department of
Environmental Protection

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County:	<u>Brooke</u>	Public Road Access:	<u>Rabbit Hill Road</u>
District:	<u>Buffalo</u>	Watershed:	<u>Lower Buffalo Creek</u>
Quadrangle:	<u>Steubenville East</u>	Generally used farm name:	<u>OV Royalty Trust LLC</u>

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Telephone:	<u>304-884-1610</u>		<u>Morgantown, WV 26508</u>
Email:	<u>Brittany_Woody@swn.com</u>	Facsimile:	<u>304-884-1690</u>

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

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

Date of Notice: 9/30/2019 **Date of Planned Entry:** 10/7/2019

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

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Notice is hereby provided to:

SURFACE OWNER(s)
Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: _____
Address: _____

MINERAL OWNER(s)
Name: Shannon Wheeler
Address: 15349 SE 182nd Ave
Umatilla, FL 32784
*please attach additional forms if necessary

RECEIVED
Office of Oil and Gas

JUL 17 2020

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District:	<u>Buffalo</u>	Watershed:	<u>Lower Buffalo Creek</u>
Quadrangle:	<u>Steubenville East</u>	Generally used farm name:	<u>OV Royalty Trust LLC</u>

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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

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

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Notice is hereby provided to:

SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: _____
Address: _____

MINERAL OWNER(s)

Name: Ruth Ellen Yazevac
Address: 6741 Chartridge Court
Canal Winchester, OH 43110

*please attach additional forms if necessary

RECEIVED
Office of Oil and Gas
JUL 17 2020

WV Department of
Environmental Protection

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State:	<u>West Virginia</u>	Approx. Latitude & Longitude:	<u>40.285455, -80.583997</u>
County:	<u>Brooke</u>	Public Road Access:	<u>Rabbit Hill Road</u>
District:	<u>Buffalo</u>	Watershed:	<u>Lower Buffalo Creek</u>
Quadrangle:	<u>Steubenville East</u>	Generally used farm name:	<u>OV Royalty Trust LLC</u>

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Email:	<u>Brittany_Woody@swn.com</u>	Facsimile:	<u>304-884-1690</u>

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

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

Date of Notice: 03/04/2020 **Date Permit Application Filed:** THU

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

- CERTIFIED MAIL HAND
- RETURN RECEIPT REQUESTED 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: Valentine Gene Charles The Trust of 11/26/86 Name: _____

Address: PO Box 31 Address: _____

Wellsburg, WV 26070 _____

Notice is hereby given:

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

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>535,340.681</u>	RECEIVED Office of Oil and Gas
County: <u>Brooke</u>	Northing: <u>4,459,551.039</u>	
District: <u>Cross Creek</u>	Public Road Access: <u>Rabbit Hill Road</u>	
Quadrangle: <u>Steubenville East</u>	Generally used farm name: <u>OV Royalty Trust, LLC</u>	JUL 17 2020
Watershed: <u>Painters Run of Buffalo Creek</u>		

WV Department of
Environmental Protection

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: <u>SWN Production Company, LLC</u>	Address: <u>1300 Fort Pierpont Dr., Suite 201</u>
Telephone: <u>304-517-6603</u>	<u>Morgantown, WV 26508</u>
Email: <u>Michael_Yates@swn.com</u>	Facsimile: _____

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4700900318

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
Division of Highways

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

Byrd E. White, III
Secretary of Transportation/
Commissioner of Highways

October 15, 2019

Jimmy Wriston, P. E.
Deputy Secretary/
Deputy Commissioner

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 OV Royalty Trust LLC Pad, Brooke County

OV Royalty Trust LLC BRK 5H Well Site

RECEIVED
Oil and Gas

JUL 17 2020

WV Department of
Environmental Protection

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2011-0113 which has been issued to Southwestern Energy for access to the State Road for a well site located off Brooke County Route 18 SLS.

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

Very Truly Yours,

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

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

Attachment VI Frac Additives

Product Name	Product Use	Chemical Name	CAS Number
AI-303 (U.S. Well Services)	Mixture	Ethylene glycol	107-21-1
		Cinnamaldehyde	104-55-2
		Butyl cellosolve	111-76-2
		Formic acid	64-18-6
		Polyether	Proprietary
		Acetophenone, thiourea, formaldehyde polymer	68527-49-1
AP ONE (U.S. Well Services)	Breaker	Ammonium persulfate	7727-54-0
Bactron K-139 (Champion Technologies)	Biocide	Glutaraldehyde	111-30-8
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
		Ethanol	64-17-5
Bactron K-219 (Champion Technologies)	Biocide	Methanol	67-56-1
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
CarboNRT	Tracer	Ceramic Proppant	66402-68-4
EC6486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate	Proprietary
		Ethylene Glycol	107-21-1
EC6734A (Champion Technologies)	Biocide	Hydrogen Peroxide	7722-84-1
		Acetic Acid	64-19-7
		Peroxyacetic Acid	79-21-0
Econo-CI200 (SWN Well Services)	Corrosion Inhibitor	Methanol	67-56-1
		Oxyalkylated fatty acid	68951-67-7
		Fatty acids	61790-12-3
		Modified thiourea polymer	68527-49-1
		Water	7732-18-5
		Hydrochloric acid	7647-01-0
		Potassium acetate	127-08-2
Formaldehyde	50-00-0		
Ecopol-FEAC (SWN Well Services)	Iron Control	Acetic Acid	64-19-7
		Citric Acid	77-92-9
		Water	7732-18-5
FDP-S1176-15 (Halliburton)	Friction Reducer	Polyacrylate	Proprietary
		Hydrotreated light petroleum distillate	64742-47-8
FLOJET DR900 LPP (SWN Well Services)	Friction Reducer	Distillates (petroleum) hydrotreated light	64674-47-8
		Ethylene Glycol	107-21-1
		Alcohols, C12-16, Exoxylated propoxylated	68213-24-1
		Fatty Alcohols ethoxylated	Proprietary
		Water	7732-18-5
FLOJET DRP 1130X (SWN Well Services)	Friction Reducer	Proprietary	Proprietary
FR-76 (Halliburton)	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
		Inorganic Salt	Proprietary
GYPTRON T-390 (Champion Technologies)	Scale Inhibitor	Methanol	67-56-1
		Nonylphenol Ethoxylate	Proprietary
HAI-150E (Halliburton)	Corrosion Inhibitor	No hazardous substance	N/A
HCL (SWN Well Services)	Hydrochloric Acid	Hydrochloric Acid	7647-01-0
		Water	7732-18-5
LP-65 MC (Halliburton)	Scale Inhibitor	Organic phosphonate	Proprietary
		Ammonium Chloride	12125-02-9
OPTI-FLEX (U.S. Well Services)	Viscosifying Agent	Distillates, petroleum, hydrotreated light	64742-47-8
Plexslick 930	Friction Reducer	Copolymer of 2-propenamide	Proprietary
		Hydrotreated Distillate	64742-47-8
		Sodium Chloride	7647-14-5
		Alcohols, C12-16, Exoxylated	68551-12-2
		Oleic Acid Diethanolamide	93-83-4
Ammonium Chloride	12125-02-9		
Plexslick 953	Friction Reducer	Petroleum Distillate	64742-47-8
		Sodium Chloride	7647-14-5
		Ammonium Chloride	12125-02-9
		N,N-bis (2-hydroxyethyl) oleamide	93-83-4
Plexslick 957	Friction Reducer	Petroleum Distillate	64742-47-8
		Ammonium Chloride	12125-02-9
		Oleic Acid Diethanolamide	93-83-4
		Alcohols, C12-16, Exoxylated	68551-12-2
		Water	7732-15-5
WFRA-2000 (U.S. Well Services)	Anionic Friction Reducer	Hydrotreated light distillate (petroleum)	64742-47-8
		Propenoic acid, polymer with propenamide	9003-06-9
Plexaid 655 NM	Scale Inhibitor	Diethylenetriamine penta (methylene phosphonic acid)	15827-30-8
Plexslick 922	no data available	Copolymer of 2-propenamide	69418-26-4
		Distillates (petroleum), hydrotreated light	64742-47-8
		Ammonium chloride ((NH4)Cl)	12125-02-9
		Oleic Acid Diethanolamide	93-83-4
Tolcide PSS0A	Biocidal product	Tetrakis (hydroxymethyl) phosphonium sulphate	55566-30-8
		Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups	397256-50-7
LD-2950	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
		Ethoxylated alcohol	Proprietary
Legend LD-7750W	Scale Control	Poly (oxy-1,2-ethanediy) alpha.-tridecyl-omega.-hydroxy-, branched	69011-36-5
		Methanol	67-56-1
MC MX 8-4743	Specialty Product	Phosphonic Acid Salt	Proprietary
		Sodium Nitrate	7631-99-4

As of 1/16/2020

4704900318

RECEIVED
Office of Oil and Gas

JUL 17 2020

WV Department of
Environmental Protection

OV ROYALTY TRUST LLC-BRK PAD #A

AS-BUILT

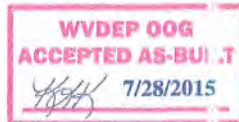
WELL PAD/ACCESS ROAD
BUFFALO DISTRICT, BROOKE COUNTY, WV

JULY 2015

PLANS PREPARED BY:

TRIPLE H ENTERPRISES

204 NEELY AVENUE,
WEST UNION, WV 26456
304-873-3260



ANTHONY BAUMGARD, P.E. NO. WV 14049

API# 900094
API# 900138
API# 900162
API# 900163
API# 900164

REVISIONS PER DEP COMMENTS	
DATE	07/27/2015
BY	SWN
PROJECT	OV ROYALTY TRUST LLC BRK PAD #A WELL PAD A & B ACCESS ROAD BUFFALO DISTRICT BROOKE COUNTY, WEST VIRGINIA
JOB	
DATE	07/27/2015
DRAWN BY	ODE
SCALE	AS SHOWN
SHEET	1 OF 15

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



OWNER:



AS-BUILT CERTIFICATION
THE DRAWINGS, CONSTRUCTION NOTES, AND
REFERENCE DIAGRAMS ATTACHED HERETO
HAVE BEEN PREPARED IN ACCORDANCE WITH
THE WEST VIRGINIA CODE OF STATE RULES,
DIVISION OF ENVIRONMENTAL, OFFICE OF OIL
AND GAS CR3-35-4

NOTES:

1. THE AS-BUILT INFORMATION SHOWN HEREON REFLECTS FIELD DATA COLLECTED RELATIVE TO THE FINAL GRADING OF THE DISTURBED AREA AS OF JULY 24, 2015. TRIPLE H ENTERPRISES IS NOT RESPONSIBLE FOR ANY CHANGES MADE TO THE SITE AFTER THE ABOVE MENTIONED DATE.
2. THE EXISTING CONTAINMENT BERM AROUND THE WELL PAD SHALL BE REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS.
3. THE EXISTING EGRESS TO THE WELL PAD SHALL HAVE THE MAINTAINABLE BERMS REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS.

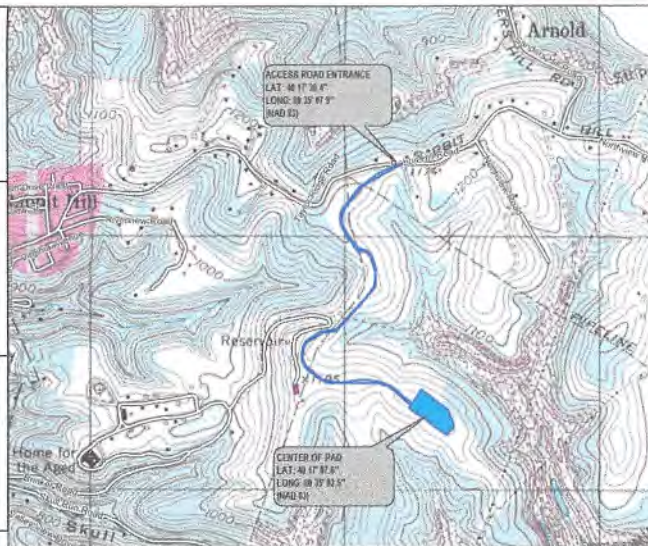


COORDINATES
ACCESS ROAD ENTRANCE
(NAD 83)
LAT: 40° 17' 39.4"
LONG: 80° 35' 07.9"

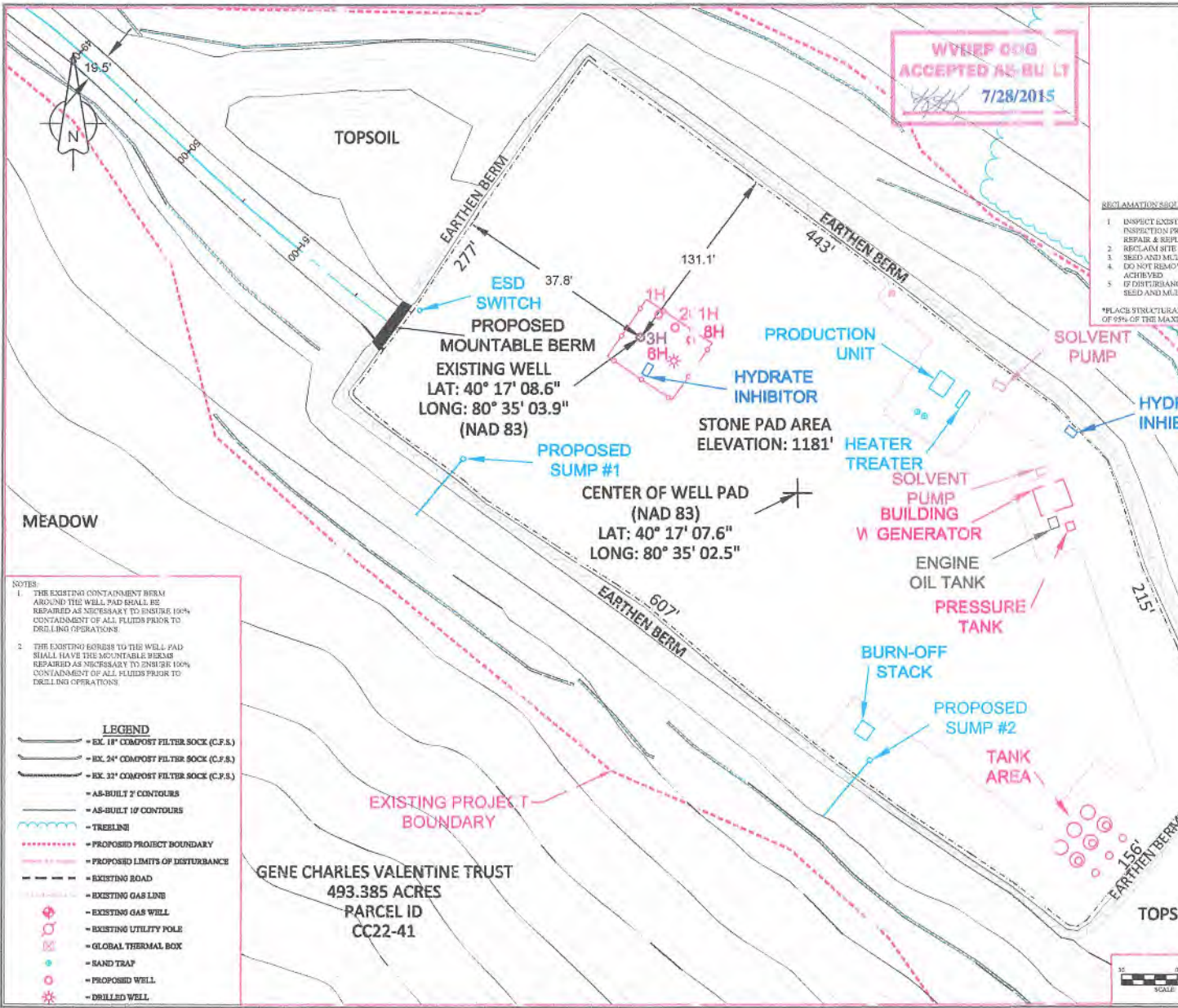
COORDINATES
CENTER OF PAD SITE
(NAD 83)
LAT: 40° 17' 07.6"
LONG: 80° 35' 02.5"

LIMITS OF DISTURBANCE
DESIGN ACCESS ROAD PL = 13.28 ACRES
DESIGN PAD PL = 9.81 ACRES
TOTAL DESIGN PROJECT LIMITS = 23.09 ACRES

PROPOSED ACCESS ROAD PL = 16.95 ACRES
PROPOSED PAD PL = 9.81 ACRES
TOTAL PROPOSED PROJECT LIMITS = 26.76 ACRES



○ SITE LOCATION



W/REP 000
ACCEPTED AS-BUILT
7/28/2015

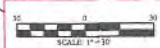
WELL INFORMATION	
WELL NO.	API NO.
1H	009-00162
3H	009-00094
6H	009-00091
8H	009-00164
201H	009-00163

- RECLAMATION SEQUENCE:
1. INSPECT EXISTING E&S BMP'S IN ACCORDANCE WITH MAINTENANCE AND INSPECTION PROCEDURES AS OUTLINED IN E&S CONTROL AND SITE PLAN. REPAIR & REPLACE AS NEEDED.
 2. RECLAIM SITE AS FOR RECLAMATION PLAN.
 3. SEED AND MULCH ALL DISTURBED AREAS.
 4. DO NOT REMOVE E&S BMP'S UNTIL 70% UNIFORM PERENNIAL GROWTH IS ACHIEVED.
 5. IF DISTURBANCE OCCURS DURING REMOVAL OF E&S BMP'S IMMEDIATELY SEED AND MULCH DISTURBED AREAS.
- *PLACE STRUCTURAL SOIL FILL IN 9 INCH LAYERS. COMPACT TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY.

- NOTES:
1. THE EXISTING CONTAINMENT BERM AROUND THE WELL PAD SHALL BE REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS.
 2. THE EXISTING EGRESS TO THE WELL PAD SHALL HAVE THE MOUNTABLE BERMS REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS.

- LEGEND
- EX. 18" COMPOST FILTER SOCK (C.F.S.)
 - EX. 24" COMPOST FILTER SOCK (C.F.S.)
 - EX. 32" COMPOST FILTER SOCK (C.F.S.)
 - AS-BUILT 2' CONTOURS
 - AS-BUILT 10' CONTOURS
 - TREELINE
 - PROPOSED PROJECT BOUNDARY
 - PROPOSED LIMITS OF DISTURBANCE
 - EXISTING ROAD
 - EXISTING GAS LINE
 - EXISTING GAS WELL
 - EXISTING UTILITY POLE
 - GLOBAL THERMAL BOX
 - SAND TRAP
 - PROPOSED WELL
 - DRILLED WELL

GENE CHARLES VALENTINE TRUST
493.385 ACRES
PARCEL ID
CC22-41



ANTHONY L. BAUMGARD
REGISTERED
PROFESSIONAL ENGINEER
14049
7/27/2015

TRIPLE enterprises

REVISED PLANS PER DEP COMMENTS

DATE: 07/27/2015

SWIN

AS-BUILT SITE/REVISIONS

CV ROYALTY TRUST, LLC BRK PAD #A
WELL PAD A & B ACCESS ROAD
BUFFALO DISTRICT BROOKE COUNTY,
WEST VIRGINIA

ASB
DATE: 07/27/2015
DRAWN BY: AGS
SCALE: AS SHOWN
SHEET: 15 OF 15