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west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, March 30, 2020  
WELL WORK PERMIT  
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION  
1615 WYNKOOP STREET  
DENVER, CO 80202

Re: Permit approval for GESEK 5H  
47-085-10398-00-00

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

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

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

A handwritten signature in blue ink, appearing to read "James A. Martin".

James A. Martin  
Chief

Operator's Well Number: GESEK 5H  
Farm Name: CAROL A. MEYERS ET AL  
U.S. WELL NUMBER: 47-085-10398-00-00  
Horizontal 6A New Drill  
Date Issued: 3/30/2020

# 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

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

API Number: \_\_\_\_\_

## 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](mailto:DEPOOGNotify@wv.gov).

4708510398

WW-6B  
(04/15)

API NO. 47-085  
OPERATOR WELL NO. Gesek Unit 5H  
Well Pad Name: Gesek Pad

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

1) Well Operator: Antero Resources Corporation 494507062 085 - Ritchie Union Pullman 7.5'  
Operator ID County District Quadrangle

2) Operator's Well Number: Gesek Unit 5H Well Pad Name: Gesek Pad

3) Farm Name/Surface Owner: Carol A. Meyers et al Public Road Access: US Route 22

4) Elevation, current ground: 1052' Elevation, proposed post-construction: ~1031'

5) Well Type (a) Gas  Oil  Underground Storage

Other

(b) If Gas Shallow  Deep

Horizontal

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Marcellus Shale: 6900' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2800#

*Michael Goff*  
*2-4-20*

8) Proposed Total Vertical Depth: 6900' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 6900' MD

11) Proposed Horizontal Leg Length: 0'

12) Approximate Fresh Water Strata Depths: 71', 162', 322'

13) Method to Determine Fresh Water Depths: 47-085-08581, 47-085-08569

14) Approximate Saltwater Depths: 1241', 1830'

15) Approximate Coal Seam Depths: 355', 399'

16) Approximate Depth to Possible Void (coal mine, karst, other): None Anticipated

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

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

Depth: \_\_\_\_\_

Seam: \_\_\_\_\_

Owner: \_\_\_\_\_

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WW-6B  
(04/15)

API NO. 47-085 -  
OPERATOR WELL NO. Gesek Unit 6H  
Well Pad Name: Gesek Pad

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#	80	80	CTS, 218 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	300	300	CTS, 417 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500	2500	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	23#	6900	6900	1491 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

*Handwritten notes:*  
300 450\*  
2500  
Protect Fresh water & coal

*Handwritten notes:*  
MAG  
2-4-20

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"	24"	0.438"	1530	50	Class A	~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	2730	1000	Class A	~1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A	~1.18
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	12,630	2500	Lead-H/POZ & Tab - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

**PACKERS**

Kind:	N/A			
Sizes:	N/A			
Depths Set:	N/A			

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

Drill, perforate, fracture a new horizontal shallow well and complete Marcellus Shale.

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

Antero plans to pump Slickwater into the Marcellus Shale formation in order to ready the well for production. The fluid will be comprised of approximately 99 percent water and sand, with less than 1 percent special-purpose additives as shown in the attached "List of Anticipated Additives Used for Fracturing or Stimulating Well."

Anticipated Max Pressure - 9300 lbs  
Anticipated Max Rate - 80 bpm

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 49.49 acres

22) Area to be disturbed for well pad only, less access road (acres): 6.15 acres

23) Describe centralizer placement for each casing string:

Conductor: no centralizers  
Surface Casing: one centralizer 10' above the float shoe, one on the insert float collar and one every 4th joint spaced up the hole to surface.  
Intermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th collar to surface.  
Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.

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

Conductor: no additives, Class A cement.  
Surface: Class A cement with 2-3% calcium chloride and 1/4 lb of flake  
Intermediate: Class A cement with 1/4 lb of flake, 5 gallons of clay treat  
Production: Lead cement- 50/50 Class H/Poz + 1.5% salt + 1% C-45 + 0.5% C-16a + 0.2% C-12 + 0.45% C-20 + 0.05% C-51  
Production: Tail cement- Class H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

25) Proposed borehole conditioning procedures:

Conductor: blowhole clean with air, run casing, 10 bbls fresh water.  
Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.  
Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.  
Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

\*Note: Attach additional sheets as needed.



47085099700000 

 Gesek Unit 5H



Antero Resources Corporation

Gesek Unit 5H - AOR



 WELL SYMBOLS  
Gas Well

January 16, 2020

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**Antero Resources Corporation**

Proposed Revegetation Treatment: Acres Disturbed 49.49 acres Prevegetation pH \_\_\_\_\_

Lime 2-4 Tons/acre or to correct to pH 6.5

Fertilizer type Hay or straw or Wood Fiber (will be used where needed)

Fertilizer amount 500 lbs/acre

Mulch 2-3 Tons/acre

Access Road "A" (14.16 acres) + Access Road "B" (1.15 acres) + Well Pad (6.15 acres) + Water Containment Pad (2.40 acres) + Excess/Topsoil Stockpiles (25.63 acres) = 49.49 Acres

**Seed Mixtures**

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Ryegrass	40	Crownvetch	10-15
Field Bromegrass	40	Tall Fescue	30
<small>See attached Table 3 for additional seed type (Gesek Pad Design Sheet Page 4)</small>		<small>See attached Table 4A for additional seed type (Gesek Pad Design Sheet Page 4)</small>	
*or type of grass seed requested by surface owner		*or type of grass seed requested by surface owner	

**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: Michael Gaff

Comments: Acreseed & mulch any disturbed area per WV DEP regulations.

Title: Oil & Gas Inspector Date: 2-4-20

Field Reviewed?  Yes  No

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***Form WW-9 Additives Attachment*****SURFACE INTERVAL**

1. Fresh Water
2. Soap –Foamer AC
3. Air

**INTERMEDIATE INTERVAL*****STIFF FOAM RECIPE:***

- 1) 1 ppb Soda Ash / Sodium Carbonate-Alkalinity Control Agent
- 2) 1 ppb Conqor 404 ( 11.76 ppg) / Corrosion Inhibitor
- 3) 4 ppb KLA-Gard ( 9.17 ppg) / Amine Acid Complex-Shale Stabilizer
- 4) 1ppb Mil Pac R / Sodium Carboxymethylcellulose-Filtration Control Agent
- 5) 12 ppb KCL / Potassium Chloride-inorganic Salt
- 6) Fresh Water 80 bbls
- 7) Air

**PRODUCTION INTERVAL**

1. Alpha 1655  
Salt Inhibitor
2. Mil-Carb  
Calcium Carbonate
3. Cottonseed Hulls  
Cellulose-Cottonseed Pellets – LCM
4. Mil-Seal  
Vegetable, Cotton & Cellulose-Based Fiber Blend – LCM
5. Clay-Trol  
Amine Acid Complex – Shale Stabilizer
6. Xan-Plex  
Viscosifier For Water Based Muds
7. Mil-Pac (All Grades)  
Sodium Carboxymethylcellulose – Filtration Control Agent
8. New Drill  
Anionic Polyacrylamide Copolymer Emulsion – Shale Stabilizer
9. Caustic Soda  
Sodium Hydroxide – Alkalinity Control
10. Mil-Lime  
Calcium Hydroxide – Lime
11. LD-9  
Polyether Polyol – Drilling Fluid Defoamer
12. Mil Mica  
Hydro-Biotite Mica – LCM

13. Escaid 110  
Drilling Fluid Solvent – Aliphatic Hydrocarbon
14. Ligo  
Highly Oxidized Leonardite – Filtration Control Agent
15. Super Sweep  
Polypropylene – Hole Cleaning Agent
16. Sulfatrol K  
Drilling Fluid Additive – Sulfonated Asphalt Residuum
17. Sodium Chloride, Anhydrous  
Inorganic Salt
18. D-D  
Drilling Detergent – Surfactant
19. Terra-Rate  
Organic Surfactant Blend
20. W.O. Defoam  
Alcohol-Based Defoamer
21. Perma-Lose HT  
Fluid Loss Reducer For Water-Based Muds
22. Xan-Plex D  
Polysaccharide Polymer – Drilling Fluid Viscosifier
23. Walnut Shells  
Ground Cellulosic Material – Ground Walnut Shells – LCM
24. Mil-Graphite  
Natural Graphite – LCM
25. Mil Bar  
Barite – Weighting Agent
26. X-Cide 102  
Biocide
27. Soda Ash  
Sodium Carbonate – Alkalinity Control Agent
28. Clay Trol  
Amine Acid complex – Shale Stabilizer
29. Sulfatrol  
Sulfonated Asphalt – Shale Control Additive
30. Xanvis  
Viscosifier For Water-Based Muds
31. Milstarch  
Starch – Fluid Loss Reducer For Water Based Muds
32. Mil-Lube  
Drilling Fluid Lubricant



**911 Address**  
**2395 Holbrook Road**  
**Pullman, WV 26421**

# **Well Site Safety Plan**

## **Antero Resources**

**Well Name: Gesek Unit 5H**

*Michael Duff*  
*2-4-20*

**Pad Location: GESEK PAD**

Ritchie County/Union District

**GPS Coordinates:**

**Entrance** - Lat 39°16'59.21"/Long -80°88'71.67" (NAD83)

**Pad Center** - Lat 39°17'06.11"/Long -80°88'17.30" (NAD83)

**Driving Directions:**

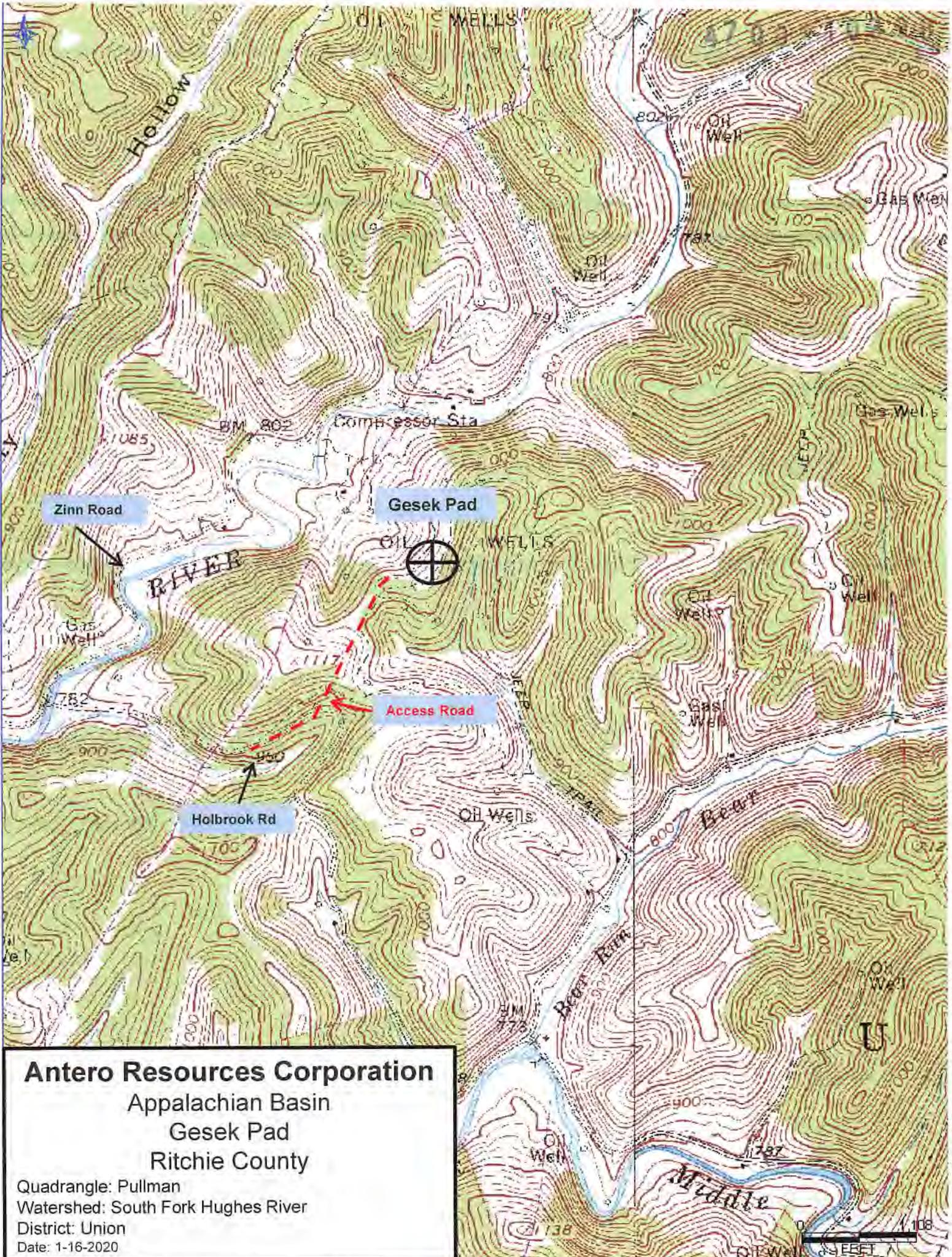
From Intersection I-79 & HWY 50: Head southwest toward US-50 W - continues onto US-50W - turn left onto Old US 50 East/Sunnyside Road - turn left onto CO Route 21/Oxford Road - Continue onto South Fork of Hughes River Road - continue onto Harrisville-Pullman Oxford Road - sharp left turn onto White Oak Road - turn right onto CO Road 22/3 - entrance will be on the left.

**EMERGENCY (24 HOUR) CONTACT 1-800-878-1373**

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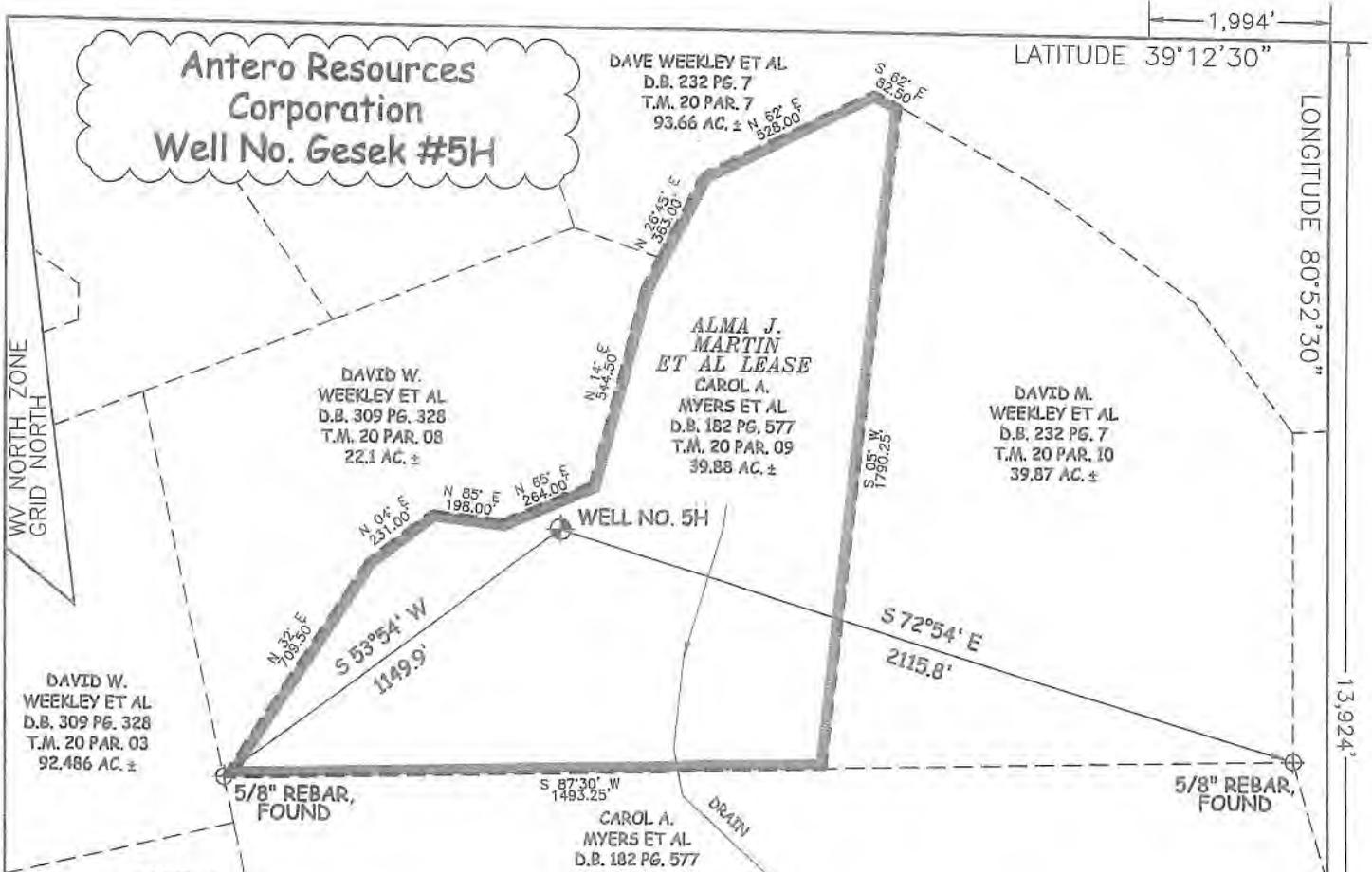
FEB 07 2020



**Antero Resources Corporation**  
Appalachian Basin  
Gesek Pad  
Ritchie County

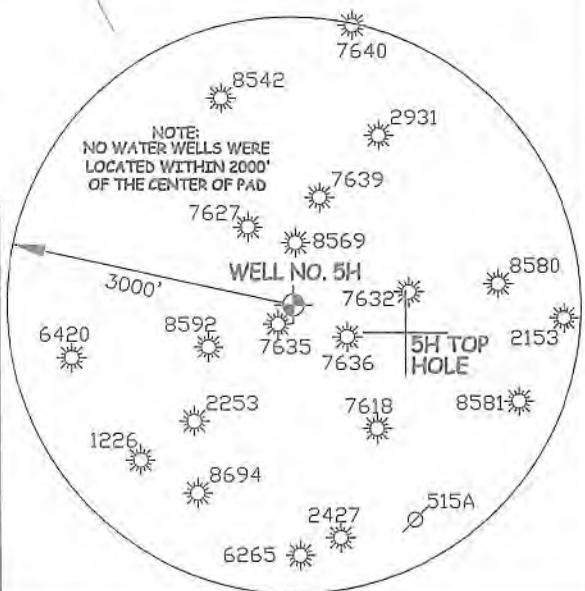
Quadrangle: Pullman  
Watershed: South Fork Hughes River  
District: Union  
Date: 1-16-2020



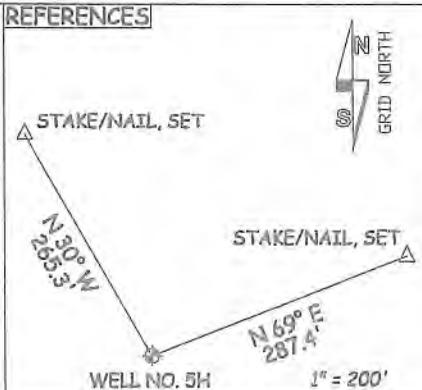


**NOTES**  
 1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD. THERE ARE NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF THE PROPOSED WELL.  
 2. LEASE BOUNDARY AND BEARINGS AND DISTANCES SHOWN HEREON ARE TAKEN FROM RITCHIE COUNTY DEED BOOK 182 AT PAGE 578.

(NAD) 27 (UTM) ZONE 17 COORDS:  
 WELL 5H TOP HOLE INFORMATION:  
 N: 14,223,895ft E: 1,673,850ft



**NOTES:**  
 WELL 5H TOP HOLE INFORMATION:  
 WV STATE PLANE NAD 27 COORDS:  
 N: 247,080ft E: 1,608,175ft  
 GEOGRAPHIC NAD 27 COORDS:  
 LAT: 39°10'12.38" LON: 80°52'55.32"  
 (NAD) 83 (UTM) ZONE 17 COORDS:  
 N: 4,335,670m E: 510,205m  
 WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.



JOB # 19-040WA  
 DRAWING # GESEK5H  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY SUBMETER  
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

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

**LEGEND**  
 - - - - - Surface Owner Boundary Lines +/-  
 - - - - - Adjoining Surface Tracts +/-  
 ⊕ Found monument, as noted



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
 WILLOW LAND SURVEYING PLLC  
 266 HUSHERS RUN RD PENNSBORO WEST VIRGINIA 26415

DOUGLAS R. ROWE P.S. 2202

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

DATE 01/08/19  
 OPERATOR'S WELL# GESEK#5H

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS") PRODUCTION  STORAGE \_\_\_ DEEP \_\_\_ SHALLOW   
 LOCATION: ELEVATION ORIGINAL - 1,052' PROPOSED - 1,031' WATERSHED SOUTH FORK HUGHES RIVER  
 QUADRANGLE PULLMAN 7.5' DISTRICT UNION COUNTY RITCHIE

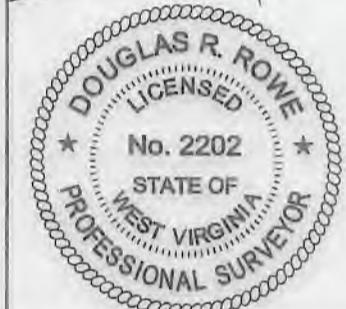
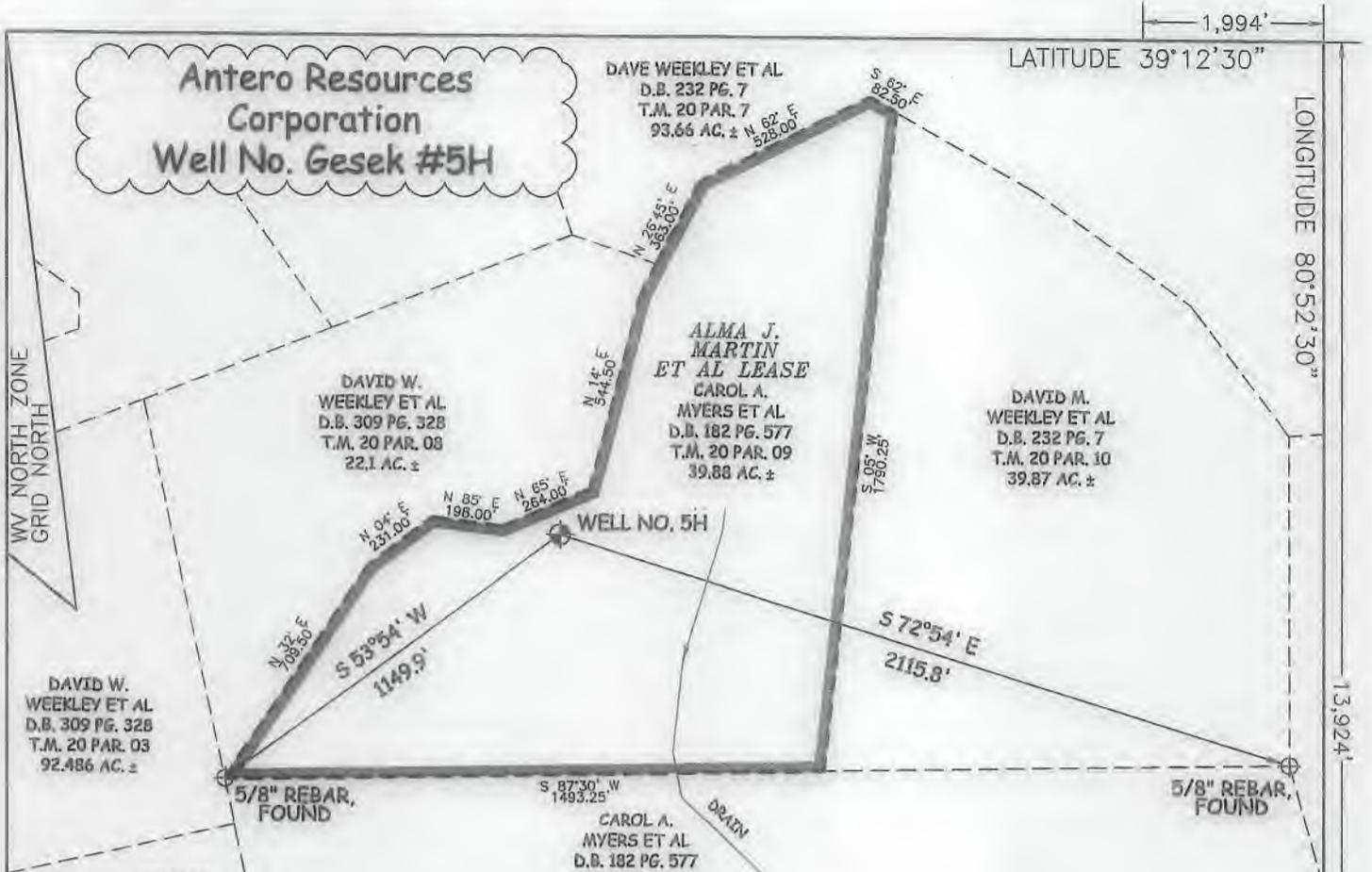
SURFACE OWNER CAROL A. MEYERS ET AL ACREAGE 39.88 ACRES +/-  
 OIL & GAS ROYALTY OWNER ALMA J. MARTIN ET AL LEASE ACREAGE 39.88 ACRES +/-

PROPOSED WORK: DRILL  CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION

OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG & ABANDON \_\_\_ CLEAN OUT & REPLUG \_\_\_ ESTIMATED DEPTH 6,900' TVD 6,900' MD  
 TARGET FORMATION MARCELLUS

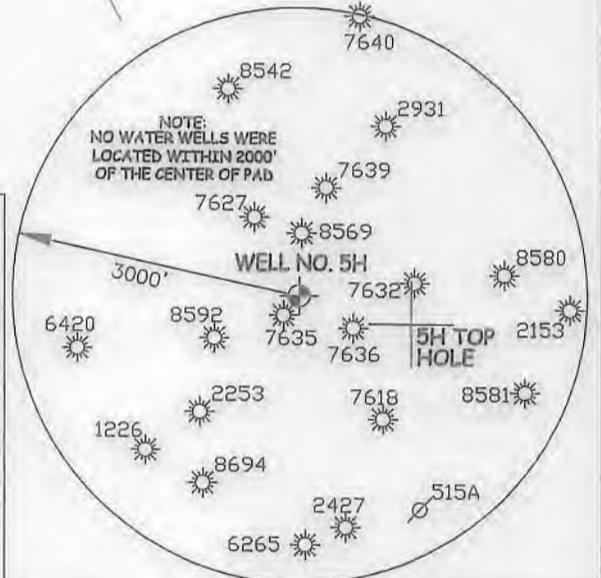
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER  
 ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD  
 DENVER, CO 80202 CHARLESTON, WV 25313

COUNTY NAME PERMIT

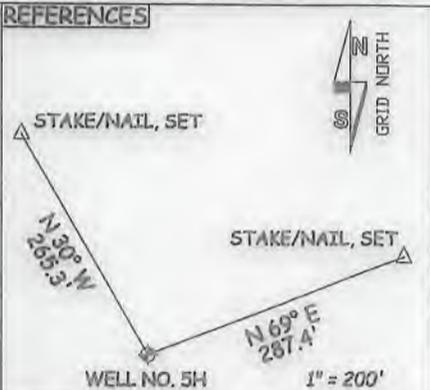


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STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
 WILLOW LAND SURVEYING PLLC  
 266 HUSHERS RUN RD PENNSBORO WEST VIRGINIA 26415

DOUGLAS R. ROWE P.S. 2202  
 DATE 01/08/19  
 OPERATOR'S WELL# GESEK#5H

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS  
 WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS") PRODUCTION  STORAGE \_\_\_ DEEP \_\_\_ SHALLOW   
 LOCATION: ELEVATION ORIGINAL - 1,052' PROPOSED - 1,031' WATERSHED SOUTH FORK HUGHES RIVER  
 QUADRANGLE PULLMAN 7.5' DISTRICT UNION COUNTY RITCHIE  
 SURFACE OWNER CAROL A. MEYERS ET AL ACREAGE 39.88 ACRES +/-  
 OIL & GAS ROYALTY OWNER ALMA J. MARTIN ET AL LEASE ACREAGE 39.88 ACRES +/-  
 PROPOSED WORK: DRILL  CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION   
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY)  
 PLUG & ABANDON \_\_\_ CLEAN OUT & REPLUG \_\_\_ ESTIMATED DEPTH 6,900' TVD 6,900' MD  
 TARGET FORMATION MARCELLUS  
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER  
 ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD  
 DENVER, CO 80202 CHARLESTON, WV 25313

API WELL # 47 - 085 - 10398 MOD  
 STATE COUNTY PERMIT  
 COUNTY NAME PERMIT

WW-6A1

Operator's Well Number Gesek Unit 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:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<b><u>Alma J. Martin et al Lease</u></b>			
Alma J. Martin et al	Cater Oil Company	1/8	0011/0589
Cater Oil Company	Hope Construction & Refining Company	Assignment	0052/0194
Hope Construction & Refining Company	Hope Natural Gas Company	Assignment	0111/0520
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	0151/0436
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0169/0756
Consolidated Gas Transmission Corporation	CNG Development Company	Assignment	0176/0601
CNG Development Company	CNG Producing Company	Name Change	0151/0436
CNG Producing Company	Dominion Exploration & Production Inc	Name Change	0058/0366
Dominion Exploration & Production Inc	Dominion Transmission Inc	Assignment	0251/0621
Dominion Transmission Inc	Consol Gas Company	Name Change	0006/0566
Consol Gas Company	CNX Gas Company LLC	Assignment	0006/0634
CNX Gas Company LLC	Noble Energy Inc	Assignment	0254/0811
Noble Energy Inc	Antero Resources Corporation	Assignment	0269/0429

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JAN 29 2020  
WV Department of  
Environmental Protection

**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
<u>Alma J. Martin et al Lease</u>	Alma J. Martin et al	Cater Oil Company	1/8	0011/0589
	Cater Oil Company	Hope Construction & Refining Company	Assignment	0052/0194
	Hope Construction & Refining Company	Hope Natural Gas Company	Assignment	0111/0520
	Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	0151/0436
	Consolidated Gas Supply Corporation	CNG Development Company	Assignment	0176/0601
	CNG Development Company	CNG Producing Company	Name Change	0151/0436
	CNG Producing Company	Dominion Exploration & Production Inc	Name Change	0058/0366
	Dominion Exploration & Production Inc	Dominion Transmission Inc	Assignment	0251/0621
	Dominion Transmission Inc	Consol Gas Company	Name Change	0006/0566
	Consol Gas Company	CNX Gas Company LLC	Merger	0006/0634
	CNX Gas Company LLC	Noble Energy Inc	Assignment	0254/0811
	Noble Energy Inc	Antero Resources Corporation	Assignment	0269/0429

\*Partial Assignments to Antero Resources Corporation include 100% rights to extract, produce and market the oil and gas from the Marcellus and any other formations completed with this well.

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

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

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

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

Well Operator: Antero Resources Corporation  
 By: Tim Rady  
 Its: Senior VP of Operations

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WV Department of  
Environmental Protection



Antero Resources  
1615 Wynkoop Street  
Denver, CO 80202  
Office 303.357.7310  
Fax 303.357.7315

January 17, 2020

West Virginia Department of Environmental Protection  
Chief, Office of Oil and Gas  
Attn: Mr. James Martin  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304

RE: Gesek Unit 5H  
Quadrangle: Union 7.5'  
Ritchie County/Pullman District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Gesek Unit 5H horizontal shallow well. As an authorized representative, I certify that Antero has the right to extract, produce or market the oil or gas for all leases through which the Gesek Unit 5H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

A handwritten signature in black ink, appearing to read "Tyler Adams", is written over a horizontal line.

Tyler Adams  
Landman

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JAN 22 2020  
WV Department of  
Environmental Protection

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

Date of Notice Certification: 01/16/2020

API No. 47- 085 - \_\_\_\_\_  
Operator's Well No. Gesek Unit 5H  
Well Pad Name: Gesek Pad

**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>510205m</u>
County: <u>Ritchie</u>		Northing: <u>4335670m</u>
District: <u>Union</u>	Public Road Access: <u>US Route 22</u>	
Quadrangle: <u>Pullman 7.5'</u>	Generally used farm name: <u>Carol A. Meyers et al</u>	
Watershed: <u>South Fork Hughes River</u>		

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

<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 type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input checked="" 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><b>OOG OFFICE USE ONLY</b></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.

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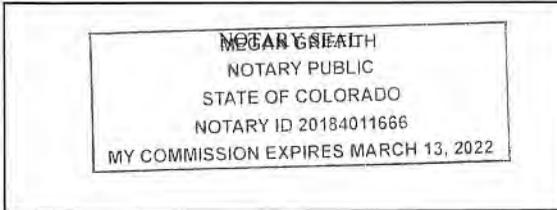
JAN 22 2020

**Certification of Notice is hereby given:**

THEREFORE, I Diana Hoff, 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: Antero Resources Corporation  
By: Diana Hoff *Diana C. Hoff*  
Its: Senior VP of Operations *1/17/2020*  
Telephone: 303-357-7223

Address: 1615 Wynkoop Street  
Denver, CO 80202  
Facsimile: 303-357-7315  
Email: mgriffith@anteroresources.com



Subscribed and sworn before me this 17<sup>th</sup> day of January, 2020  
*[Signature]* Notary Public  
My Commission Expires 3-13-2022

**Oil and Gas Privacy Notice:**

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

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JAN 23 2020

WV Department of  
Environmental Protection

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

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

Date of Notice: 1/17/2020 Date Permit Application Filed: 1/17/2020

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: Albin A. Gesek & Carol Meyers  
Address: 441 Pleasant Hollow Road  
West Union, WV 26456

Name: David Martin Weekley Trust  
Address: 987 Middle Island Creek Road  
St. Mary's, WV 26170

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: Albin A. Gesek & Carol Meyers  
Address: 441 Pleasant Hollow Road  
West Union, WV 26456

Name: David Martin Weekley Trust  
Address: 987 Middle Island Creek Road  
St. Mary's, WV 26170

SURFACE OWNER(s) (Impoundments or Pits)

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

COAL OWNER OR LESSEE

Name: NO DECLARATIONS ON RECORD WITH COUNTY  
Address: \_\_\_\_\_

COAL OPERATOR

Name: NO DECLARATIONS ON RECORD WITH COUNTY  
Address: \_\_\_\_\_

WATER PURVEYOR(s)/OWNER(s) OF WATER WELL,  
SPRING OR OTHER WATER SUPPLY SOURCE

Name: NONE IDENTIFIED WITHIN 1500'  
Address: \_\_\_\_\_

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

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

\*Please attach additional forms if necessary

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JAN 20 2020  
Systems Support of  
Environmental Protection

**Notice is hereby given:**

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

**This Notice Shall Include:**

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

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

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

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

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

**Well Location Restrictions**

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

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

**Water Well Testing:**

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

**Water Testing Laboratories:**

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

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

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

**Written Comment:**

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

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

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

47 00 - 10398

WW-6A  
(8-13)

API NO. 47- 085 -  
OPERATOR WELL NO. Gesek Unit 5H  
Well Pad Name: Gesek Pad

**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.

RECEIVED  
Office of Oil and Gas

JAN 23 2020

WV Department of  
Environmental Protection

WW-6A  
(8-13)

API NO. 47-085-10398  
OPERATOR WELL NO. Gesek Unit 5H  
Well Pad Name: Gesek Pad

**Notice is hereby given by:**

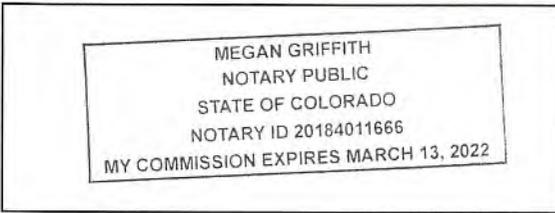
Well Operator: Antero Resources Corporation  
Telephone: (303) 357-7223  
Email: mgriffith@anteroresources.com

*Megan G. Griffith*  
*4/17/2020*

Address: 1615 Wynkoop Street  
Denver, CO 80202  
Facsimile: 303-357-7315

**Oil and Gas Privacy Notice:**

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



Subscribed and sworn before me this 17<sup>th</sup> day of January, 2020  
*Megan Griffith*  
\_\_\_\_\_  
Notary Public  
My Commission Expires 3.13.2022

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Office of Oil and Gas  
JAN 29 2020  
WV Department of  
Environment and Conservation

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

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

**Notice Time Requirement:** Notice shall be provided at least **TEN (10)** days prior to filing a permit application.

**Date of Notice:** 01/06/2020      **Date Permit Application Filed:** 01/17/2020

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

HAND DELIVERY       CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

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

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

Name: Albin A. Gesek & Carol Myers  
Address: 441 Pleasant Hollow Road  
West Union, WV 26456

Name: David Martin Weekley Trust  
Address: 987 Middle Island Creek Road  
St. Mary's, WV 26170

**Notice is hereby given:**

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

State: West Virginia      UTM NAD 83      Easting: 510205m  
County: Ritchie      Northing: 4335670m  
District: Union      Public Road Access: US Route 22  
Quadrangle: Pullman 7.5'      Generally used farm name: Carol A. Meyers et al  
Watershed: South Fork Hughes River

**This Notice Shall Include:**

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

**Notice is hereby given by:**

Well Operator: Antero Resources Appalachian Corporation  
Address: 1615 Wynkoop St.  
Denver, CO 80202  
Telephone: 303-357-7223  
Email: mgriffith@anteroresources.com  
Facsimile: 303-357-7315

Authorized Representative: Megan Griffith  
Address: 1615 Wynkoop St.  
Denver, CO 80202  
Telephone: 303-357-7310  
Email: mgriffith@anteroresources.com  
Facsimile: 303-357-7315

**Oil and Gas Privacy Notice:**

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

Office of Oil and Gas  
JAN 18 2020  
Department of Environmental Protection

**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:** 01/17/2020      **Date Permit Application Filed:** 01/17/2020

**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: Albin A. Gesek & Carol Meyers  
Address: 441 Pleasant Hollow Road  
West Union, WV 26456

Name: David Martin Weekley Trust  
Address: 987 Middle Island Creek Road  
St. Mary's, WV 26170

**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>510205m</u>
County:	<u>Ritchie</u>		Northing:	<u>4335670m</u>
District:	<u>Union</u>	Public Road Access:	<u>CO Route 22</u>	
Quadrangle:	<u>Pullman 7.5'</u>	Generally used farm name:	<u>Carol A. Meyers et al</u>	
Watershed:	<u>South Fork Hughes River</u>			

**This Notice Shall Include:**

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Well Operator: Antero Resources Corporation  
Telephone: (303) 357-7223  
Email: mgriffith@anteroresources.com

Address: 1615 Wynkoop Street  
Denver, CO 80202  
Facsimile: 303-357-7315

**Oil and Gas Privacy Notice:**

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

OFFICE OF OIL AND GAS

JAN 23 2020

DEPARTMENT OF ENVIRONMENTAL PROTECTION



4708-10398

**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

**January 15, 2020**

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

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

Subject: DOH Permit for the Gesek Pad, Ritchie County  
Gesek Unit 5H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2016-0097 which has been issued to Antero Resources for access to the State Road for a well site located off Ritchie County Route 22/3 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

RECEIVED  
Office of Oil and Gas

JAN 22 2020

WV Department of  
Environmental Protection

Cc: Megan Griffith  
Antero Resources  
CH, OM, D-6  
File

# List of Anticipated Additives Used for Fracturing or Stimulating Well

Additives	Chemical Abstract Service Number (CAS #)
Fresh Water	7732-18-5
2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1
Ammonium Persulfate	7727-54-0
Anionic copolymer	Proprietary
Anionic polymer	Proprietary
BTEX Free Hydrotreated Heavy Naphtha	64742-48-9
Cellulase enzyme	Proprietary
Demulsifier Base	Proprietary
Ethoxylated alcohol blend	Mixture
Ethoxylated Nonylphenol	68412-54-4
Ethoxylated oleylamine	26635-93-8
Ethylene Glycol	107-21-1
Glycol Ethers	111-76-2
Guar gum	9000-30-0
Hydrogen Chloride	7647-01-0
Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8
Isopropyl alcohol	67-63-0
liquid, 2,2-dibromo-3-nitrilopropionamide	10222-01-2
Microparticle	Proprietary
Petroleum Distillates (BTEX Below Detect)	64742-47-8
Polyacrylamide	57-55-6
Propargyl Alcohol	107-19-7
Propylene Glycol	57-55-6
Quartz	14808-60-7
Sillica, crystalline quartz	7631-86-9
Sodium Chloride	7647-14-5
Sodium Hydroxide	1310-73-2
Sugar	57-50-1
Surfactant	68439-51-0
Suspending agent (solid)	14808-60-7
Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7
Solvent Naphtha, petroleum, heavy aliph	64742-96-7
Soybean Oil, Me ester	67784-80-9
Copolymer of Maleic and Acrylic Acid	52255-49-9
DETA phosphonate	15827-60-8
Hexamethylene Triamine Penta	34690-00-1
Phosphino Carboxylic acid polymer	71050-62-9
Hexamethylene Diamine Tetra	23605-75-5
2-Propenoic acid, polymer with 2 propenamide	9003-06-9
Hexamethylene diamine penta (methylene phosphonic acid)	23605-74-5
Diethylene Glycol	111-46-6
Methenamine	100-97-0
Polyethylene polyamine	68603-67-8
Coco amine	61791-14-8
2-Propyn-1-olcompound with methyloxirane	38172-91-7

Environmental Protection  
 Division  
 Office of Chemical Safety  
 JAN 22 2019

10398

**LOCATION COORDINATES:**  
 ACCESS ROAD ENTRANCE:  
 LATITUDE: 39.185621 LONGITUDE: -80.887167 (NAD 83)  
 LATITUDE: 39.185837 LONGITUDE: -80.887336 (NAD 27)  
 N 4335195.32 E 506747.58 UTM ZONE 17 METERS

**CENTER OF TANK:**  
 LATITUDE: 39.187153 LONGITUDE: -80.884256 (NAD 83)  
 LATITUDE: 39.187259 LONGITUDE: -80.884427 (NAD 27)  
 N 4333332.35 E 509698.87 UTM ZONE 17 METERS

**CENTROID OF PAD:**  
 LATITUDE: 39.178211 LONGITUDE: -80.891733 (NAD 83)  
 LATITUDE: 39.178227 LONGITUDE: -80.891800 (NAD 27)  
 N 4335716.48 E 610216.58 UTM ZONE 17 METERS

**APPROVED WVDEP OOG**  
 2/10/2020

# GESEK WELL PAD & WATER CONTAINMENT PAD

## SITE DESIGN & CONSTRUCTION PLAN, EROSION & SEDIMENT CONTROL PLANS

UNION DISTRICT, RITCHIE COUNTY, WEST VIRGINIA  
 WHITE OAK CREEK - SOUTH FORK HUGHES RIVER & MIDDLE FORK WATERSHEDS

USGS 7.5 PULLMAN & OXFORD QUAD MAPS



WEST VIRGINIA STATE PLANE COORDINATE SYSTEM  
 ELEVATIONS BASED ON NAVSTAR  
 REALIZATION BY SURVEY GRADE: 0.01' & 0.015'  
 POST-1985/1986

**GENERAL DESCRIPTION:**

THE ACCESS ROADS, WATER CONTAINMENT PAD, AND WELL PAD ARE BEING CONSTRUCTED TO AID IN THE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS WELLS.

**FLOODPLAIN NOTES:**

THE PROPOSED SITE IS LOCATED WITHIN FEMA FLOOD ZONE "X" PER FEMA FLOOD MAP #54095C0225C.

**MISS UTILITY STATEMENT:**

ANTERO RESOURCES CORPORATION WILL NOTIFY MISS UTILITY OF WEST VIRGINIA FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN. TICKET #1506810502. IN ADDITION, MISS UTILITY WILL BE CONTACTED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION FOR THIS PROJECT.

**ENTRANCE PERMIT:**

ANTERO RESOURCES CORPORATION WILL OBTAIN AN ENCROACHMENT PERMIT (FORM MM-108) FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

**ENVIRONMENTAL NOTES:**

STREAM AND WETLAND DELINEATIONS WERE PERFORMED IN JUNE, 2016 BY ALLSTAR ECOLOGY TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY JURISDICTION OF THE U.S. ARMY CORPS OF ENGINEERS (USACE) AND/OR THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP). THE JUNE 29, 2016 STREAMS AND WETLANDS DELINEATION INDEX MAP WAS PREPARED BY ALLSTAR ECOLOGY AND SUMMARIZES THE RESULTS OF THE FIELD DELINEATION. THE MAP DOES NOT IN ANY WAY REPRESENT A JURISDICTIONAL ESTIMATION OF THE LANDWARD LIMITS OF WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE USACE OR THE WVDEP. IT IS STRONGLY RECOMMENDED THAT THE AFORESAIDED AGENCIES BE CONSULTED IN AN EFFORT TO OBTAIN WRITTEN CONFIRMATION OF THE DELINEATION SHOWN ON THIS EXHIBIT PRIOR TO ENGAGING CONSTRUCTION ON THE PROPERTY DESCRIBED HEREIN. THE DEVELOPER SHALL OBTAIN THE APPROPRIATE PERMITS FROM THE FEDERAL AND/OR STATE REGULATORY AGENCIES PRIOR TO ANY PROPOSED IMPACTS TO WATERS OF THE U.S., INCLUDING WETLAND FILLS AND STREAM CROSSINGS.

**GEOTECHNICAL NOTES:**

THE PROPOSED ACCESS ROAD CUT SLOPE (1.5:1) SHALL BE FIELD VERIFIED BY A CERTIFIED GEOTECHNICAL ENGINEER TO ENSURE THE PROPOSED SLOPES ARE ADEQUATE PRIOR TO CONSTRUCTION. ACCESS ROAD CONSTRUCTION SHALL BE MONITORED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER OR PROJECT DESIGN ENGINEER DURING CONSTRUCTION.

A SUBSURFACE INVESTIGATION OF THE PROPOSED SITE WAS PERFORMED BY PENNSYLVANIA SOIL & ROCK, INC. BETWEEN APRIL 28, 2015 & MAY 7, 2015. THE REPORT PREPARED BY PENNSYLVANIA SOIL & ROCK, INC. DATED JUNE 16, 2015, REVISED JANUARY 14, 2016, REFLECTS THE RESULTS OF THIS SUBSURFACE INVESTIGATION. THIS INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS REPORT WERE USED IN THE PREPARATION OF THESE PLANS. PLEASE REFER TO THE SUBSURFACE INVESTIGATION REPORT BY PENNSYLVANIA SOIL & ROCK, INC. FOR ADDITIONAL INFORMATION, AS NECESSARY.

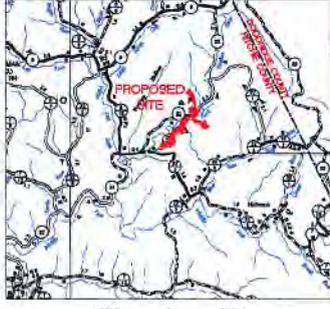
**PROJECT CONTACTS:**

- OPERATOR:**  
 ANTERO RESOURCES CORPORATION  
 525 WHITE OAKS BLVD.  
 BRIDGEPORT, WV 26035  
 PHONE: (304) 814-4100  
 FAX: (304) 842-4102
- ELI WAGONER - ENVIRONMENTAL ENGINEER**  
 OFFICE: (304) 842-4066 CELL: (304) 476-8770
- JON McEVERS - OPERATIONS SUPERINTENDENT**  
 OFFICE: (304) 857-9799 CELL: (304) 808-2423
- ARON KUNZLER - CONSTRUCTION SUPERVISOR**  
 CELL: (405) 827-8344
- ROBERT H. WIRKS - FIELD ENGINEER**  
 OFFICE: (304) 842-4100 CELL: (304) 827-7405
- CHARLES E. COMPTON, III - SURVEYING COORDINATOR**  
 CELL: (304) 719-4616
- RICHARD CYLES - LAND AGENT**  
 (770) 378-8523
- ENGINEER/SURVEYOR:**  
 NAVTUS ENGINEERING, INC.  
 CYRUS S. KUMP, P.E. - PROJECT MANAGER/ENGINEER  
 OFFICE: (800) 682-4195 CELL: (540) 866-8747
- ENVIRONMENTAL:**  
 ALLSTAR ECOLOGY, LLC  
 RYAN L. PAHO - ENVIRONMENTAL SCIENTIST  
 (866) 213-2850 CELL: (304) 482-7477
- GEOTECHNICAL:**  
 PENNSYLVANIA SOIL & ROCK, INC.  
 CHRISTOPHER X. SAMIOS - PROJECT ENGINEER  
 (412) 378-1008 CELL: (412) 569-0862

WEST VIRGINIA COUNTY MAP



WVDQH COUNTY ROAD MAP



(NOT TO SCALE)

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

GESEK WETLAND IMPACT (SQUARE FEET)			
Wetland and Impact Cause	Fill (SF)	Total Impact (SF)	Total Impact (AC)
ASE_Wetland 07 (Water Containment Pad)	945	945	0.02
ASE_Wetland 03 (Access Road)	347	347	0.01

GESEK INTERMITTENT STREAM IMPACT (LINEAR FEET)

Stream and Impact Cause	Permanent Impacts		Temp. Impacts Coniferdam E&S Controls (LF)	Total Impact (LF)
	Culvert/Fill (LF)	Inlets/Outlets Structures (LF)		
ASE_Stream 37 (Stockpile Area "D")	15	0	15	30

GESEK EPHEMERAL STREAM IMPACT (LINEAR FEET)

Stream and Impact Cause	Permanent Impacts		Temp. Impacts Coniferdam E&S Controls (LF)	Total Impact (LF)
	Culvert/Fill (LF)	Inlets/Outlets Structures (LF)		
ASE_Stream 22 (Access Road)	22	15	15	50
ASE_Stream 37 (Stockpile Area "D")	44	0	0	44
ASE_Stream 63 (Access Road)	66	0	0	66

**SHEET INDEX**

- COVER SHEET
- CONSTRUCTION AND E&S CONTROL NOTES
- LEGEND
- MATERIAL QUANTITIES
- STORM DRAINAGE & E&S COMPUTATIONS
- EXISTING CONDITIONS
- EXISTING STRUCTURES & FEATURES
- OVERALL PLAN SHEET INDEX & VOLUMES
- ACCESS ROAD & WATER CONTAINMENT PAD PLAN
- ACCESS ROAD & WELL PAD PLAN
- ACCESS ROAD & STOCKPILE PLAN
- STOCKPILE PLAN
- WELL PAD GRADING PLAN
- WATER CONTAINMENT PAD GRADING PLAN
- ACCESS ROAD PROFILES
- ACCESS ROAD SECTIONS
- WELL PAD & WATER CONTAINMENT PAD SECTIONS
- WELL PAD SECTIONS
- STOCKPILE SECTIONS
- STOCKPILE DETAILS
- CONSTRUCTION DETAILS
- ACCESS ROAD & WATER CONTAINMENT PAD RECLAMATION PLAN
- ACCESS ROAD & WELL PAD RECLAMATION PLAN
- ACCESS ROAD & STOCKPILE RECLAMATION PLAN
- STOCKPILE RECLAMATION PLAN
- 05E500-05507 - GEOTECHNICAL DETAILS

GESEK LIMITS OF DISTURBANCE AREA (AC)	
Total Site	
Access Road "A" (3,401')	14.16
Access Road "B" (401')	1.15
Well Pad	8.15
Water Containment Pad	2.42
Excavator/Topsoil Material Stockpiles	25.83
<b>Total Affected Area</b>	<b>49.68</b>
Total Wooded Acres Disturbed	42.86
<b>Impacts to Antero Resources Corp. TM 20-11.2</b>	
Access Road "A" (3)	0.52
Excavator/Topsoil Material Stockpiles	0.43
<b>Total Affected Area</b>	<b>0.96</b>
Total Wooded Acres Disturbed	0.85
<b>Impacts to Antero Resources Corp. TM 20-11.1</b>	
Access Road "A" (945')	3.98
Water Containment Pad	0.45
Excavator/Topsoil Material Stockpiles	1.89
<b>Total Affected Area</b>	<b>6.31</b>
Total Wooded Acres Disturbed	5.37
<b>Impacts to David W. Weekley &amp; David M. &amp; Mary Lou Weekley TM 20-3</b>	
Excavator/Topsoil Material Stockpiles	0.66
<b>Total Affected Area</b>	<b>0.66</b>
Total Wooded Acres Disturbed	0.53
<b>Impacts to Carol A. Myers &amp; Albin A. Geesk TM 20-12</b>	
Access Road "A" (468')	1.83
Water Containment Pad	1.84
Excavator/Topsoil Material Stockpiles	0.94
<b>Total Affected Area</b>	<b>4.41</b>
Total Wooded Acres Disturbed	4.41
<b>Impacts to Carol A. Myers &amp; Albin A. Geesk TM 20-09</b>	
Access Road "A" (644')	3.66
Access Road "B" (363')	1.11
Well Pad	4.61
Excavator/Topsoil Material Stockpiles	4.93
<b>Total Affected Area</b>	<b>14.03</b>
Total Wooded Acres Disturbed	13.27
<b>Impacts to David W. &amp; David M. Weekley TM 20-08</b>	
Access Road "A" (970')	4.24
Access Road "B" (38')	0.54
Well Pad	1.54
Excavator/Topsoil Material Stockpiles	3.97
<b>Total Affected Area</b>	<b>9.49</b>
Total Wooded Acres Disturbed	6.85
<b>Impacts to David W. &amp; David M. Weekley TM 20-07</b>	
Access Road "A" (173')	0.53
Excavator/Topsoil Material Stockpiles	6.26
<b>Total Affected Area</b>	<b>6.81</b>
Total Wooded Acres Disturbed	6.20
<b>Impacts to David W. &amp; David M. Weekley TM 20-10</b>	
Excavator/Topsoil Material Stockpiles	6.09
<b>Total Affected Area</b>	<b>6.09</b>
Total Wooded Acres Disturbed	6.71
<b>Impacts to Elmer W. &amp; Margaret S. Pierce TM 20-13</b>	
Excavator/Topsoil Material Stockpiles	0.54
<b>Total Affected Area</b>	<b>0.54</b>
Total Wooded Acres Disturbed	0.18

Proposed Well Pad Elevation	WV North	NAD 27	NAD 27 East & Long	UTM (METERS)	NAD 83 (Lat & Long)
6.825'	N 434084.15	NAD 27	LAT 39-10-12.3788	N 433000.81	LAT 39-10-12.3821
	UNIT 87	E 1088178.06	LONG -80-25-26.3222	E 108200.18	LONG -80-25-26.3265

**REPRODUCTION NOTE**  
 THESE PLANS WERE CREATED BY THE PLOTTED ON 82"x34" (ANSI D) PAPER. HALF SCALE DIMENSIONS ARE ON 1/4"x11" (ANSI D) PAPER.  
 THESE PLANS WERE CREATED FOR COLOR PLOTTING AND ANY REPRODUCTIONS IN GRAY SCALE OR COLOR MAY RESULT IN A LOSS OF INFORMATION AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES.

**DESIGN CERTIFICATION:**

THE DRAWINGS, CONSTRUCTION NOTES, AND REFERENCE DIAGRAMS ATTACHED HERETO HAVE BEEN PREPARED IN ACCORDANCE WITH THE WEST VIRGINIA CODE OF STATE RULES, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF CIVIL AND GAS USE 26-8.

**NAVITUS ENERGY ENGINEERING**  
 1500 BROADWAY, SUITE 100  
 RITCHIE COUNTY, WEST VIRGINIA

REVISIONS

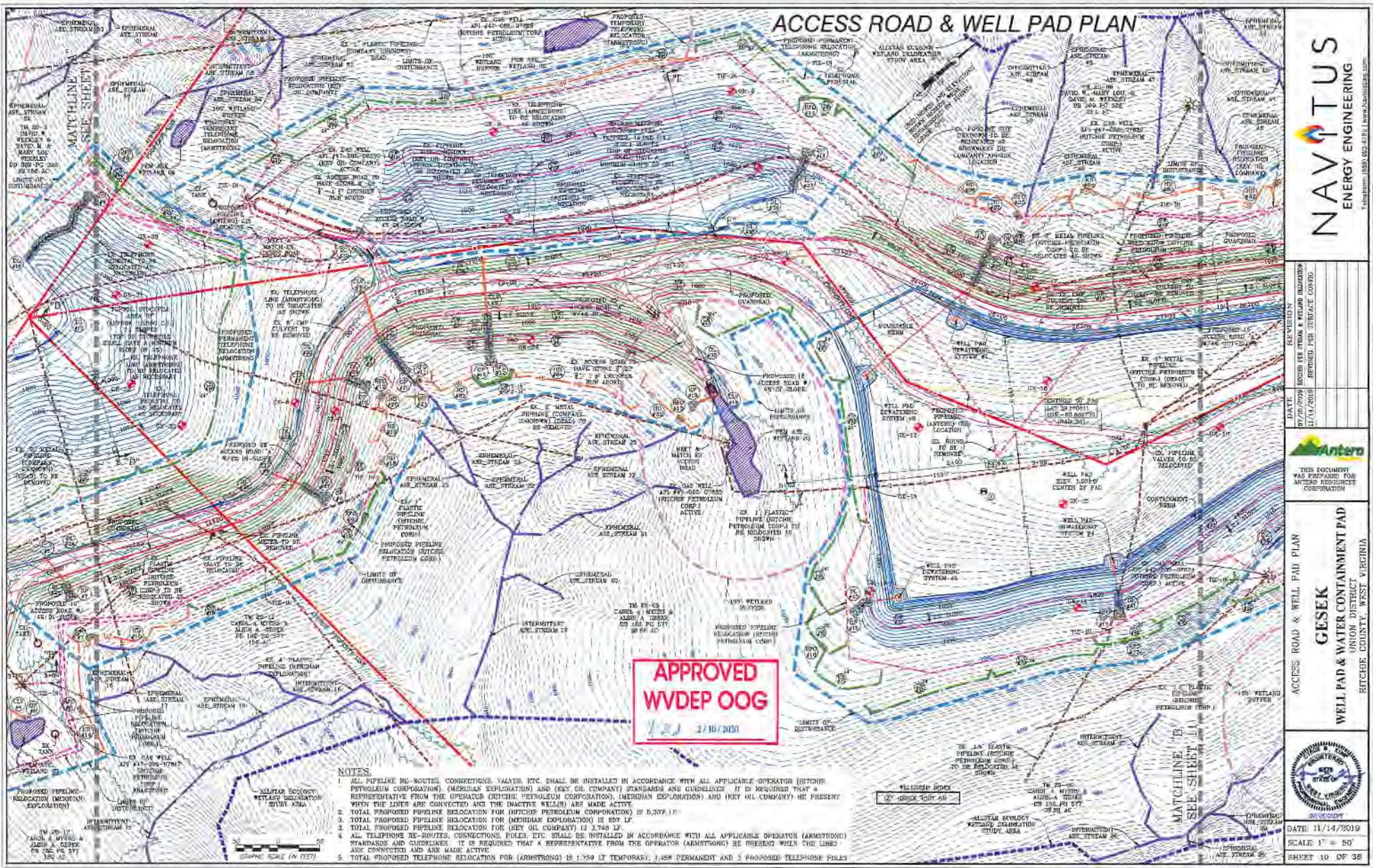
DATE	REVISION
07/25/2019	ISSUED FOR PERMITS & REVIEW
07/27/2019	REVISED PER SURFACE CONFER

Antero  
 THIS DOCUMENT WAS PREPARED FOR ANTERO RESOURCES CORPORATION

COVER SHEET  
**GESEK WELL PAD & WATER CONTAINMENT PAD**  
 UNION DISTRICT, RITCHIE COUNTY, WEST VIRGINIA



DATE: 11/14/2019  
 SCALE: AS SHOWN  
 SHEET 1 OF 36



**ACCESS ROAD & WELL PAD PLAN**

**APPROVED  
WVDEP OOG**  
2/10/2020

- NOTES**
1. ALL PIPELINE RE-ROUTES, CONNECTIONS, VALVES, ETC. SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE OPERATOR (BITCHER PETROLEUM CORPORATION, (MERRIAM EXPLORATION) AND (KEY OIL COMPANY) STANDARDS AND GUIDELINES. IT IS REQUIRED THAT A REPRESENTATIVE FROM THE OPERATOR (BITCHER PETROLEUM CORPORATION, (MERRIAM EXPLORATION) AND (KEY OIL COMPANY) BE PRESENT WHEN THE LINES ARE CONNECTED AND THE INACTIVE WELLS ARE MADE ACTIVE.
  2. TOTAL PROPOSED PIPELINE RELOCATION FOR (BITCHER PETROLEUM CORPORATION) IS 5,307 LF.
  3. TOTAL PROPOSED PIPELINE RELOCATION FOR (MERRIAM EXPLORATION) IS 107 LF.
  4. TOTAL PROPOSED PIPELINE RELOCATION FOR (KEY OIL COMPANY) IS 1,746 LF.
  5. ALL TELEPHONE RE-ROUTES, CONNECTIONS, POLES, ETC. SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE OPERATOR (ARMSTRONG) STANDARDS AND GUIDELINES. IT IS REQUIRED THAT A REPRESENTATIVE FROM THE OPERATOR (ARMSTRONG) BE PRESENT WHEN THE LINES ARE CONNECTED AND ARE MADE ACTIVE.
  6. TOTAL PROPOSED TELEPHONE RELOCATION FOR (ARMSTRONG) IS 1,759 LF TEMPORARY, 1,458 PERMANENT AND 3 PROPOSED TELEPHONE POLES.

**NAVITUS**  
ENERGY ENGINEERING

REVISION	DATE	DESCRIPTION
1	07/26/2019	ISSUE FOR PERMITS & REVISIONS
2	12/14/2019	REVISION PER SITE PLAN COPY



THIS DOCUMENT WAS PREPARED FOR ANTERO RESOURCES CORPORATION

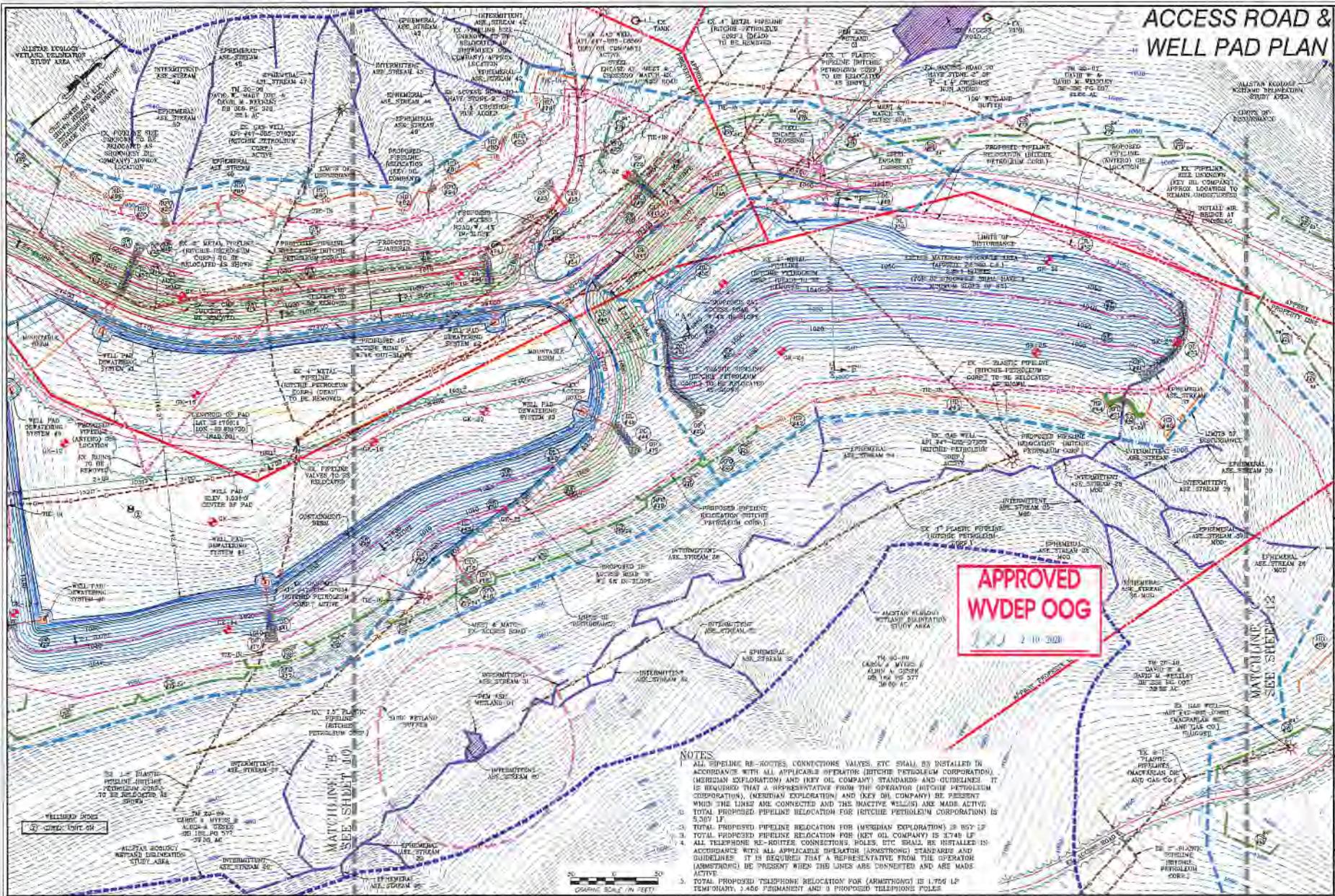
**GESEK**  
WELL PAD & WATER CONTAINMENT PAD  
UNION DISTRICT  
BITCHER COUNTY, WEST VIRGINIA



DATE: 11/14/2019  
SCALE: 1" = 50'  
SHEET 10 OF 36

# ACCESS ROAD & WELL PAD PLAN

**NAVITUS**  
ENERGY ENGINEERING



**APPROVED WVDEP OOG**  
2 10 2020

- NOTES**
1. ALL PIPELINE RE-ROUTES, CONNECTIONS, VALVES, ETC. SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE OPERATOR (BUTCH PETROLEUM CORPORATION), (MERRISAN EXPLORATION) AND (KEY OIL COMPANY) STANDARDS AND GUIDELINES. IT IS REQUIRED THAT A REPRESENTATIVE FROM THE OPERATOR (BUTCH PETROLEUM CORPORATION), (MERRISAN EXPLORATION) AND (KEY OIL COMPANY) BE PRESENT WHEN THE LINES ARE CONNECTED AND THE INACTIVE WELLS ARE MADE ACTIVE.
  2. TOTAL PROPOSED PIPELINE RELOCATION FOR (BUTCH PETROLEUM CORPORATION) IS 5,303 LF.
  3. TOTAL PROPOSED PIPELINE RELOCATION FOR (MERRISAN EXPLORATION) IS 857 LF.
  4. TOTAL PROPOSED PIPELINE RELOCATION FOR (KEY OIL COMPANY) IS 3,748 LF.
  5. ALL TELEPHONE RE-ROUTES, CONNECTIONS, HOLES, ETC. SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE OPERATOR (BUTCH PETROLEUM CORPORATION) STANDARDS AND GUIDELINES. IT IS REQUIRED THAT A REPRESENTATIVE FROM THE OPERATOR (BUTCH PETROLEUM CORPORATION) BE PRESENT WHEN THE LINES ARE CONNECTED AND ARE MADE ACTIVE.
  6. TOTAL PROPOSED TELEPHONE RELOCATION FOR (ARMSTRONG) IS 1,754 LF TEMPORARY, 1,466 PERMANENT AND 3 PROPOSED TELEPHONE POLES.

DATE	REVISION
10/17/2019	ISSUED FOR PERMITS & RECORD SUBMISSION
10/17/2019	REVISED PER SURFACE CON'G



THIS DOCUMENT WAS PREPARED FOR ANTERO RESOURCES CORPORATION

**GESEK**  
WELL PAD & WATER CONTAMINATION PAD  
UNION DISTRICT  
RITCHIE COUNTY, WEST VIRGINIA



DATE 11/14/2019  
SCALE 1" = 50'  
SHEET 11 OF 38

## Antero Resources Corporation Site Construction Plan for Gesek Well Pad & Water Containment Pad

*Antero Resources Corporation (Antero) is submitting the following Site Construction Plan in compliance with §35-8-5.5. This plan is submitted in conjunction with the Gesek Well Pad & Water Containment Pad Site Design & Construction Plan, Erosion & Sediment Control Plans prepared in accordance with the West Virginia Code of State Rules, Division of Environmental Protection and Office of Oil and Gas, and certified by Navitus Engineering, Inc., a West Virginia registered professional engineer.*

---

**Requirement §5.5.a.** *The plan should describe the nature and purpose of the construction project and identify the procedures for construction that will be used to achieve site stability. The plan shall be considered conditions of the permit and be enforceable as such.*

### **Antero Response**

The nature and purpose of the subject project is to perforate, fracture, and complete one or more horizontal shallow wells. Procedures to achieve site stability include seeding and mulching of earth disturbed areas and implementation of erosion and sediment best management practices (BMPs). Details of seeding and mulching rates as well as procedures for installation and maintenance of erosion and sediment BMPs are outlined on page 2 of "Gesek Well Pad & Water Containment Pad Site Design & Construction Plan, Erosion & Sediment Control Plans" (Site Design) prepared and certified by Navitus Engineering, Inc. of West Virginia.

These procedures will be considered as conditions of the permit and shall be inspected and maintained for continual compliance measures outlined in §35-8-5.5.

**Requirement §5.5.b.1.** *A vicinity map location the site in relation to the surrounding area and roads;*

### **Antero Response**

Please refer to the vicinity maps on page 1 for the location of the site in relation to the surrounding area and roads.

**Requirement §5.5.b.2.** *A plan view site map at a scale of one inch equal to one hundred feet (1"=100') or greater that shows appropriate detail of all site features and:*

**Requirement §5.5.b.2.A.** *Clearly identifies the limit of disturbance for the project;*

### **Antero Response**

"Overall Plan Sheet Index & Volumes," "Access Road & Water Containment Pad Plan," "Access Road & Well Pad Plan," "Access Road & Stockpile Plan," and "Stockpile Plan" maps are included on pages 8-13 of the Site Design.

**Requirement §5.5.b.2.B.** *Provides existing topographic information on a contour interval that affords sufficient detail to illustrate site terrain conditions*

**Antero Response**

Please refer to the "Existing Conditions" and "Existing Structures & Features" maps on pages 6-7 of the Site Design for the current topographic conditions for the constructed pad on a contour interval that affords sufficient detail to illustrate site terrain conditions.

*Requirement §5.5.b.2.C. Identifies proposed cut and fill areas with grading contours at an interval that provides sufficient detail to accurately depict slope ratios, indicating top and bottom of slopes; and*

**Antero Response**

Please refer to "Overall Plan Sheet Index & Volumes," "Access Road & Water Containment Pad Plan," "Access Road & Well Pad Plan," "Access Road & Stockpile Plan," and "Stockpile Plan" maps are included on pages 8-13 as well as the "Well Pad Grading Plan," "Water Containment Pad Grading Plan," "Access Road Profiles," "Access Road Sections," "Well Pad & Water Containment Pad Sections," "Well Pad Sections," and "Stockpile Sections" on pages 14-23 of the Site Design for proposed cut and fill areas with grading contours.

*Requirement §5.5.b.2.D. Identifies any existing structures, roads, water bodies, and other critical areas within the area that would most likely be affected by the construction.*

**Antero Response**

Please refer to "Overall Plan Sheet Index & Volumes," "Access Road & Water Containment Pad Plan," "Access Road & Well Pad Plan," "Access Road & Stockpile Plan," and "Stockpile Plan" maps are included on pages 8-13 for the maps identifying any structures, roads, water bodies, and other critical areas within the area of interest that would be most likely affected by construction.

*Requirement §5.5.b.3. A cross-section of the length and width of the location, providing cut and fill volumes; and*

**Antero Response**

Please refer to "Overall Plan Sheet Index & Volumes," "Access Road & Water Containment Pad Plan," "Access Road & Well Pad Plan," "Access Road & Stockpile Plan," and "Stockpile Plan" maps are included on pages 8-13 as well as the "Well Pad Grading Plan," "Water Containment Pad Grading Plan," "Access Road Profiles," "Access Road Sections," "Well Pad & Water Containment Pad Sections," "Well Pad Sections," and "Stockpile Sections" on pages 14-23 for a cross-section of the location. The cut and fill volumes can be found in "Material Quantities" on page 4.

*Requirement §5.5.b.4. Any other engineering designs or drawings necessary to construct the project.*

**Antero Response**

All other engineering designs and drawings necessary to construct this project are included in the Site Design.

*Requirement §5.5.c. At a minimum, site construction shall be conducted in accordance with the following criteria:*

**Antero Response**

All Antero contractors shall be notified of and comply with the measures outlined in Section 5.5.c. of §35-8.

**Requirement §5.5.c.1.** *All woody material, brush, and trees shall be cleared from the site area and kept to the minimum necessary for proper construction, including the installation of necessary sediment controls. Trees six inches in diameter and larger shall be cut and logs stacked;*

**Antero Response**

The Site Design outlines measures to maintain compliance with Section 201 of the WVDOH Specifications which outlines clearing and grubbing measures. Please refer to “Construction and E&S Control Notes” on page 2 of the Site Design.

**Requirement §5.5.c.2.** *Topsoil shall be removed from construction areas and stockpiled for reuse during reclamation. In woodland areas, tree stumps, large roots, large rocks, tree and leaf debris, and ground vegetation shall be removed prior to actual site constructions;*

**Antero Response**

The Site Design outlines procedures for stripping and stocking topsoil. Please refer to “Construction and E&S Control Notes” on page 2 of the Site Design. In addition, soil for stockpiling and use as fill shall be further compliant with measures outlined in Section 5.5.c.2. of §35-8-5.5.

**Requirement §5.5.c.3.** *No embankment fill shall be placed on frozen material;*

**Antero Response**

All Antero contractors shall be notified of and comply with measures outlined in Section 5.5.c.3. of §35-8-5.5.

**Requirement §5.5.c.4.** *The fill material shall be clean mineral soil, free of roots, woody vegetation, stumps, sod, large rocks, frozen soil or other objectionable material;*

**Antero Response**

The Site Design outlines procedures for stripping and stocking topsoil. Please refer to “Construction and E&S Control Notes” on page 2 of the Site Design. In addition, soil shall be further defined to the measures outlined in Section 5.5.c.4. of §35-8-5.5.

**Requirement §5.5.c.5.** *Embankment material shall exhibit adequate soil strength and contain the proper amount of moisture to ensure that compaction will be achieved;*

**Antero Response**

All Antero contractors shall be notified of and comply with measures outlined in Section 5.5.c.5. of §35-8-5.5.

**Requirement §5.5.c.6** *Earthen fill slopes should be constructed with slopes no steeper than a ratio of two to one (2:1);*

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**Antero Response**

The Site Design outlines all earthen fill slopes to be constructed with slopes no steeper than a ratio of two to one (2:1).

**Requirement §5.5.c.7.** *Fill material will be placed in lifts or layers over the length of the fill. Lift thickness of soil shall be as thin as the suitable random excavated material will permit, typically from six to twelve (12) inches; and*

**Antero Response**

Please refer to the “Construction and E&S Control Notes” on page 2 of the Site Design. Fill shall be placed in horizontal lifts of maximum loose depth of 12 inches. Compaction will be performed with a compactor with a minimum of five ton static drum weight vibratory roller or five ton static drum weight sheeps footed compactor as appropriate for the type of soil material at the site or other compactor approved by the Engineer.

**Requirement §5.5.c.8.** *The size of rock lifts shall not exceed thirty-six (36) inches. The rock shall not be greater in any dimension than thirty-six (36) inches;*

**Antero Response**

All Antero contractors shall be notified of and comply with measures outlined in Section 5.5.c.8. of §35-8-5.5.

**Requirement §5.5.c.9.** *Compaction shall be obtained by compaction equipment or by routing the hauling equipment over the fill so that the entire surface of each fill lift is compacted by at least one wheel or tread track of equipment or by a compactor. Each lift shall be compacted before beginning the next lift;*

**Antero Response**

Compaction compliance measures are outlined in the “Construction and E&S Control Notes” on page 2. Compaction is required with a compactor with a minimum of five ton static drum weight vibratory roller or five ton static drum weight sheeps footed compactor as appropriate for the type of soil material at the site or other compactor approved by the Engineer.

**Requirement §5.5.c.10.** *Surface water diversion ditches shall be constructed above the disturbed area to intercept water and to divert surface water runoff around the site; and*

**Antero Response**

“Construction and E&S Control Notes” on page 2 of the Site Design identifies the surface diversions used to prevent surface water and subsurface water from flowing on to the well pad and coming into contact with the stormwater associated with the well pad. Additional Erosion & Sediment BMPs will be used to prevent sediment discharges from the project.

**Requirement §5.5.c.11.** *In areas of steep terrain, a terraced bench shall be constructed at the base of the slope where fill is to be placed, creating a toe foundation and aid in holding fill material. Additional terracing shall be constructed from each additional fifty (50) vertical feet of slope and shall be a minimum of ten (10) feet wide.*

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**Antero Response**

All Antero contractors shall be notified of and comply with the measures outlined in Section 5.5.c.11.. of §35-8-5.5.

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JAN 22 2020

WV Department of  
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west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, March 30, 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 405H  
47-009-00307-00-00

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 BR  
Farm Name: THE GENE CHARLES VALEN  
U.S. WELL NUMBER: 47-009-00307-00-00  
Horizontal 6A New Drill  
Date Issued: 3/30/2020

# 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

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

API Number: \_\_\_\_\_

## 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](mailto: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 405H Well Pad Name: OV Royalty Trust LLC BRK

3) Farm Name/Surface Owner: The Gene Charles Valentine Trust dated 11/26/86 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. W. C. 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- 5736', Target Base TVD- 5802', Anticipated Thickness- 66', Associated Pressure- 3772

8) Proposed Total Vertical Depth: 5787' ✓

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 18,511' ✓

11) Proposed Horizontal Leg Length: 11399.58' ✓

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 Analysis ✓

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

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

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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' ✓	601sx/CTS
Production	5 1/2"	New	HCP-110	20#	18,511'	18,511'	lead 788x/Tail 2588sx/ 100' Inside Integ
Tubing							
Liners							

*(Signature)* 2.4.20

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							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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CLASSIFIED TUBING PROGRAM

(18)

TYPE	Size (in)	New or Used	Grade	Weight per ft (lb/ft)	ECOTAGM For Drilling (ft)	INTERVALS: 1 st in Well (ft)	CEMENT: Hill-top COLLECTS
Conductor	30"	New	H-40	94%	100	100	OTS
Fresh Water	12 1/2"	New	H-40	45%	400	150	150-200 OTS
Coal	2 1/2"	Surface Casing					
Intermediate	8 1/2"	New	L-80	30%	1000	1000	1000-1000
Production	8 1/2"	New	H-40-100	20%	1000	1000	
Tubing							
liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Brine Pressure (psig)	Anticipated Max. Internal Pressure (psig)	Cement Yield (cu ft/ft)
Conductor	30"	30"	0.35	2750	81	Class A / 1.0000 cu ft/ft
Fresh Water	12 1/2"	12 1/2"	0.380	2740	303	Class A / 1.0000 cu ft/ft
Coal	2 1/2"	Surface Casing				
Intermediate	8 1/2"	12 1/2"	0.399	3000	1700	Class A / 1.0000 cu ft/ft
Production	8 1/2"	8 1/2"	0.381	12000	3500	Class A / 1.0000 cu ft/ft
Tubing						
liners						

REMARKS

Kind	Size	Length (ft)

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.) ✓ Void considered

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 \*\*\*

25) Proposed borehole conditioning procedures:

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

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\*Note: Attach additional sheets as needed.

## Schlumberger Cement Additives

	Product Name	Product Use	Chemical Name	CAS Number
Surface	S001	accelerator	calcium chloride up to 3%	10043-52-4
Intermediate	S001	accelerator	calcium chloride	10043-52-4
Kick Off Plug	D080	dispersant	sodium polynaphthalene sulfonate	9008-63-3
	D801	retarder	aromatic polymer derivative	proprietary
	D047	antifoam	polypropylene glycol	25322-69-4
Production-Lead	D167	fluid loss	aliphatic amide polymer	proprietary
	D154	extender	non-crystalline silica	7631-86-9
	D400	gas migration	boric acid	10043-35-3
			polypropylene glycol	25322-69-4
	D046	antifoam	fullers earth (attapulgite)	8031-18-3
			chrystalline silica	14808-60-7
	D201	retarder	metal oxide	proprietary
			sulphonated synthetic polymer	proprietary
Production-Tail	D202	dispersant	formaldehyde (impurity)	proprietary
			polypropylene glycol	25322-69-4
	D046	antifoam	fullers earth (attapulgite)	8031-18-3
	D167	fluid loss	aliphatic amide polymer	proprietary
			sodium polynaphthalene sulfonate	9008-63-3
	D065	dispersant	sodium sulfate	7757-82-6
			chrystalline silica	14808-60-7
	D201	retarder	metal oxide	proprietary
D153	anti-settling	chrystalline silica	14808-60-7	

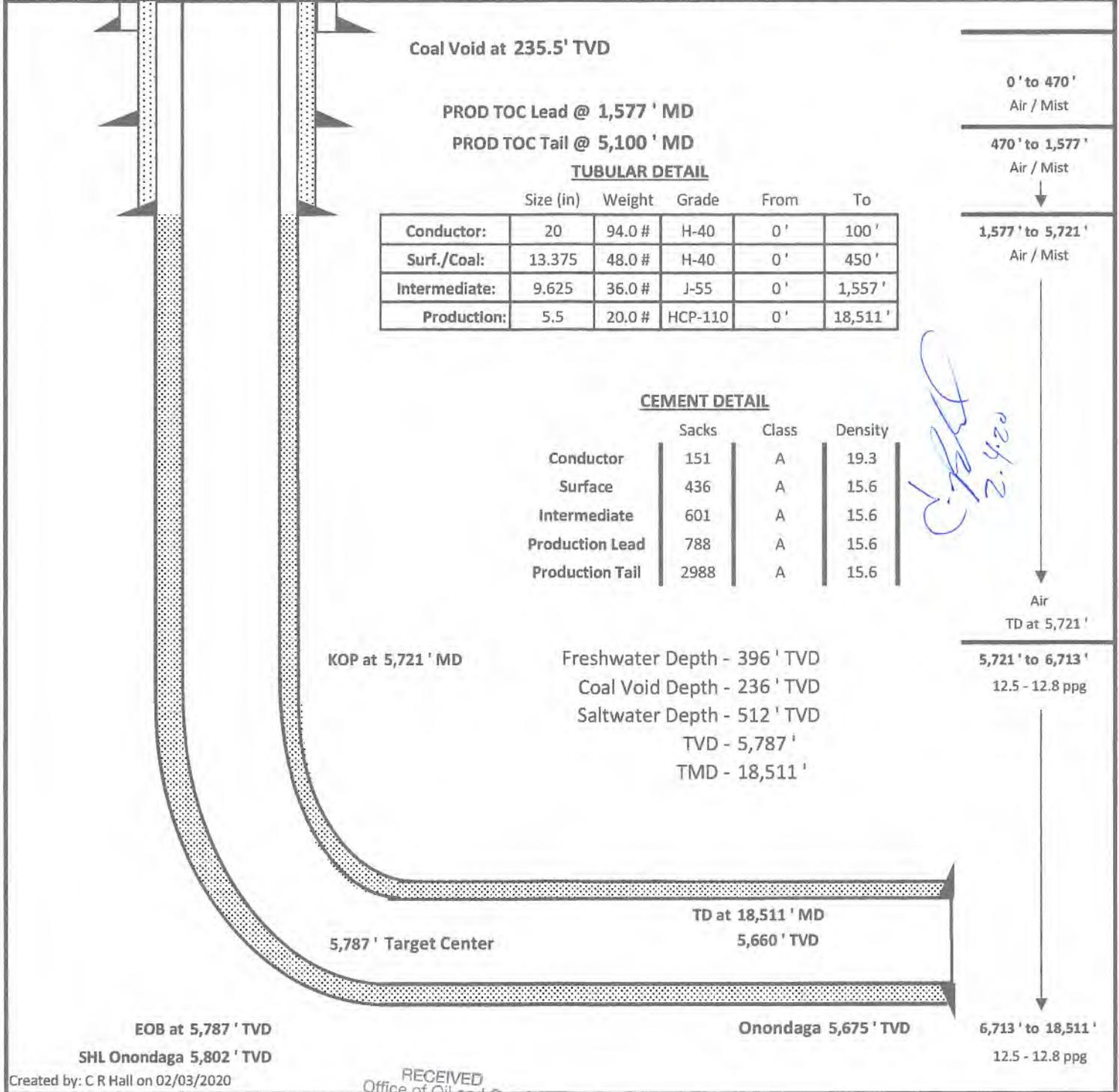
Rev. 5/18/2018

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WV Department of  
Environmental Protection

<b>Southwestern Energy Company</b>		<b>Proposed Drilling Program</b>	
<b>Well:</b>	<b>OV ROYALTY TRUST LLC BRK 405</b>	<b>Re-entry Rig:</b>	<b>TBD</b>
<b>Field:</b>	<b>PANHANDLE FIELD WET</b>	<b>Prospect:</b>	<b>PANHANDLE</b>
<b>County:</b>	<b>BROOKE</b>	<b>State:</b>	<b>WV</b>
<b>SHL:</b>	<b>40.2857 Latitude</b>	<b>-80.5842 Longitude</b>	
<b>BHL:</b>	<b>40.3189 Latitude</b>	<b>-80.5889 Longitude</b>	
<b>KB Elev:</b>	<b>1,207 ft MSL</b>	<b>KB: 26 ft AGL</b>	<b>GL Elev: 1,181 ft MSL</b>



Created by: C R Hall on 02/03/2020

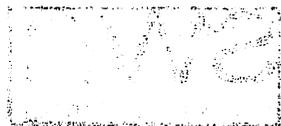
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Proposed Drilling Program

Southern Energy Company



Recently Rpt. TRD  
 Proposed: PANHANDLE  
 State: WV

ON ROYALTY TRACT TO BE ACQ  
 PANHANDLE FIELD W/IT  
 BROOK

Well  
 Field  
 County

1150 FT MSL

1150 FT MSL

1150 FT MSL

1150 FT MSL

Coal vein at 2357' TVD

9000 TOE Layer @ 1575' TVD

9000 TOE Layer @ 1700' TVD

FORMATION

Formation	Depth (ft)	Weight (lb/ft)	Volume (cu ft)	Weight (lb)
Coal	100'	120	1000	120,000
Shale	100'	140	1000	140,000
Sandstone	100'	130	1000	130,000
Production	100'	120	1000	120,000
Production	100'	120	1000	120,000

GENERAL DATA

Formation	Depth (ft)	Weight (lb/ft)	Volume (cu ft)	Weight (lb)
Coal	100'	120	1000	120,000
Sandstone	100'	130	1000	130,000
Intermediate	100'	140	1000	140,000
Production	100'	120	1000	120,000
Production	100'	120	1000	120,000

Coal vein depth - 398' TVD  
 Coal vein depth - 318' TVD  
 Saltwater depth - 211' TVD  
 TMD - 28.51'

1150 FT MSL



4700900307

WW-9  
(4/16)

API Number 47 - 009 -  
Operator's Well No. O V Royalty Trust LLC, BRK 405H

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 )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain recovery and solidification )

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 EOBM from KOP to TD

-If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Base

Additives to be used in drilling medium? Attachment 3B

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)

-Landfill or offsite name/permit number? Meadowfill SWF- 1032, Short Creek SWF-1034, Carbon Limestone MSWL018781, Wetzel County 1021

Apex Sanitary Landfill 06-08438, Brooke Co SWF-1013,

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

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

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

Company Official Signature *Brittany Woody*

Company Official (Typed Name) Brittany Woody

Company Official Title Senior Regulatory Analyst

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MAR 17 2020

WV Department of  
Environmental Protection

Subscribed and sworn before me this 23 day of December, 2019

Stephen Teel

My commission expires 5 June 2020



**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:  11.6.19

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

Title: Oil & Gas Inspector Date: 11-6-19

Field Reviewed?  Yes  No

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## Attachment 3A

### CLOSED LOOP SYSTEM

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

The closed loop system consists of 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, SOBM)

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

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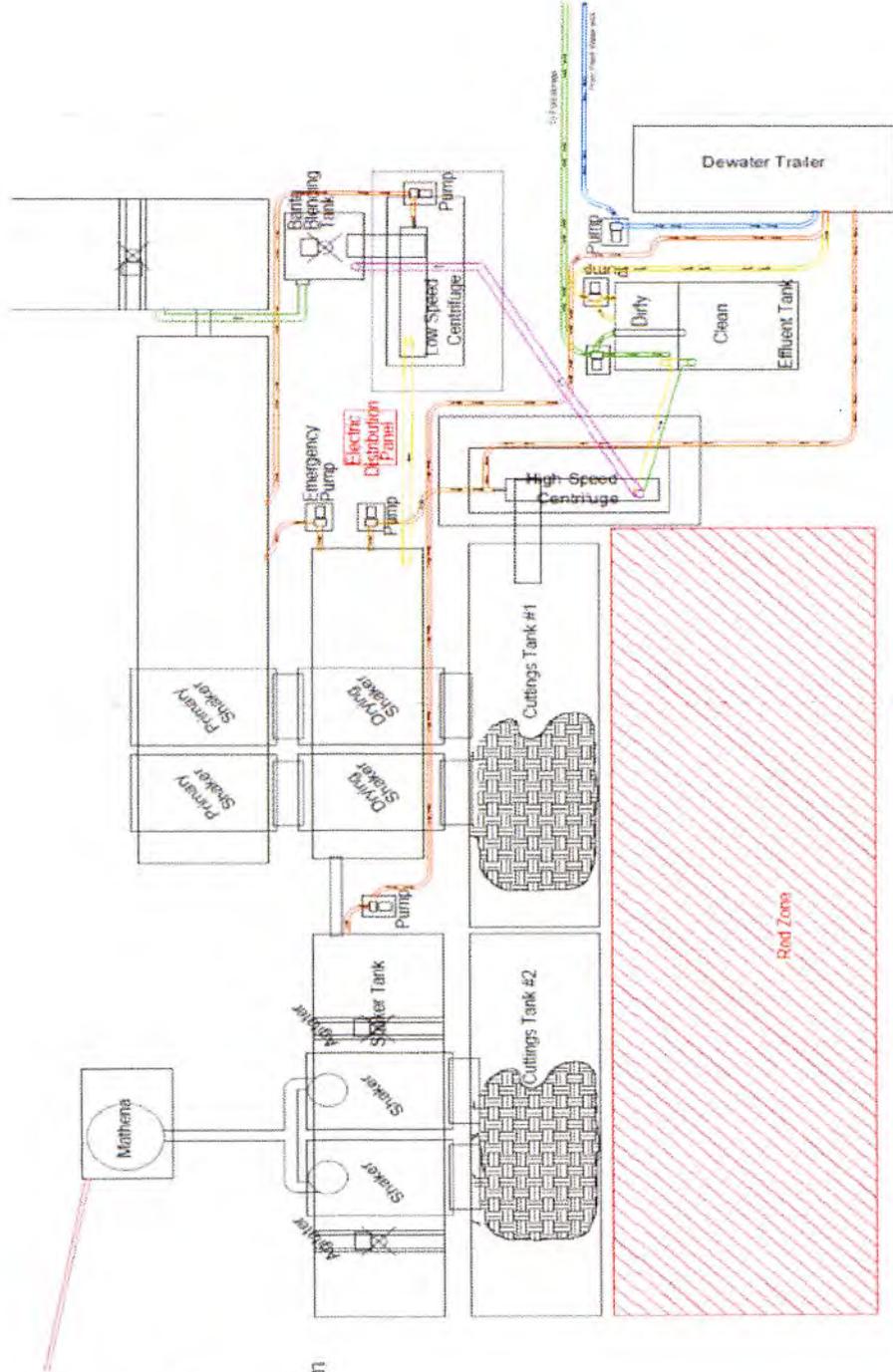
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EXAMPLE SCHEMATIC FOR CLOSED LOOP SOLIDS CONTROL SYSTEM



# Solids Control Layout



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# **Attachment 3B**

## **Drilling Mediums**

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

Air

Freshwater (if needed based on conditions)

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

Air

Brine (In Gas Storage areas)

Organophilic Bentonite

### **Production Hole:**

Air

Synthetic Oil (Base Fluid for mud system)

Barite

Calcium Chloride

Lime

Organophilic Bentonite

Primary and Secondary Emulsifiers

Gilsonite

Calcium Carbonate

Friction Reducers

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WV Department of Environmental Protection

# WVD Seeding Specification

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

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	

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

Seeding Calculation Information:	
1452' of 30' ROW/LOD is One Acre	
871' of 50' ROW/LOD is One Acre	
622' of 70' ROW/LOD is One Acre	

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

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

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

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

# MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN



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

**API NO. 47-XXX-XXXXX**  
**WELL NAME: OV Royalty Trust LLC BRK 405H**  
**Steubenville East QUAD**  
**Cross Creek DISTRICT**  
**Brooke COUNTY, WEST VIRGINIA**

Submitted by:

Name: Brittany Woody

Date: 10/15/2019

*Brittany Woody*

Title: Senior Regulatory Analyst

SWN Production Co., LLC

Approved by:

Name: *C. D. O.*

Date: *11-6-19*

Title: *Oil and Gas Inspector*

Approved by:

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

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

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

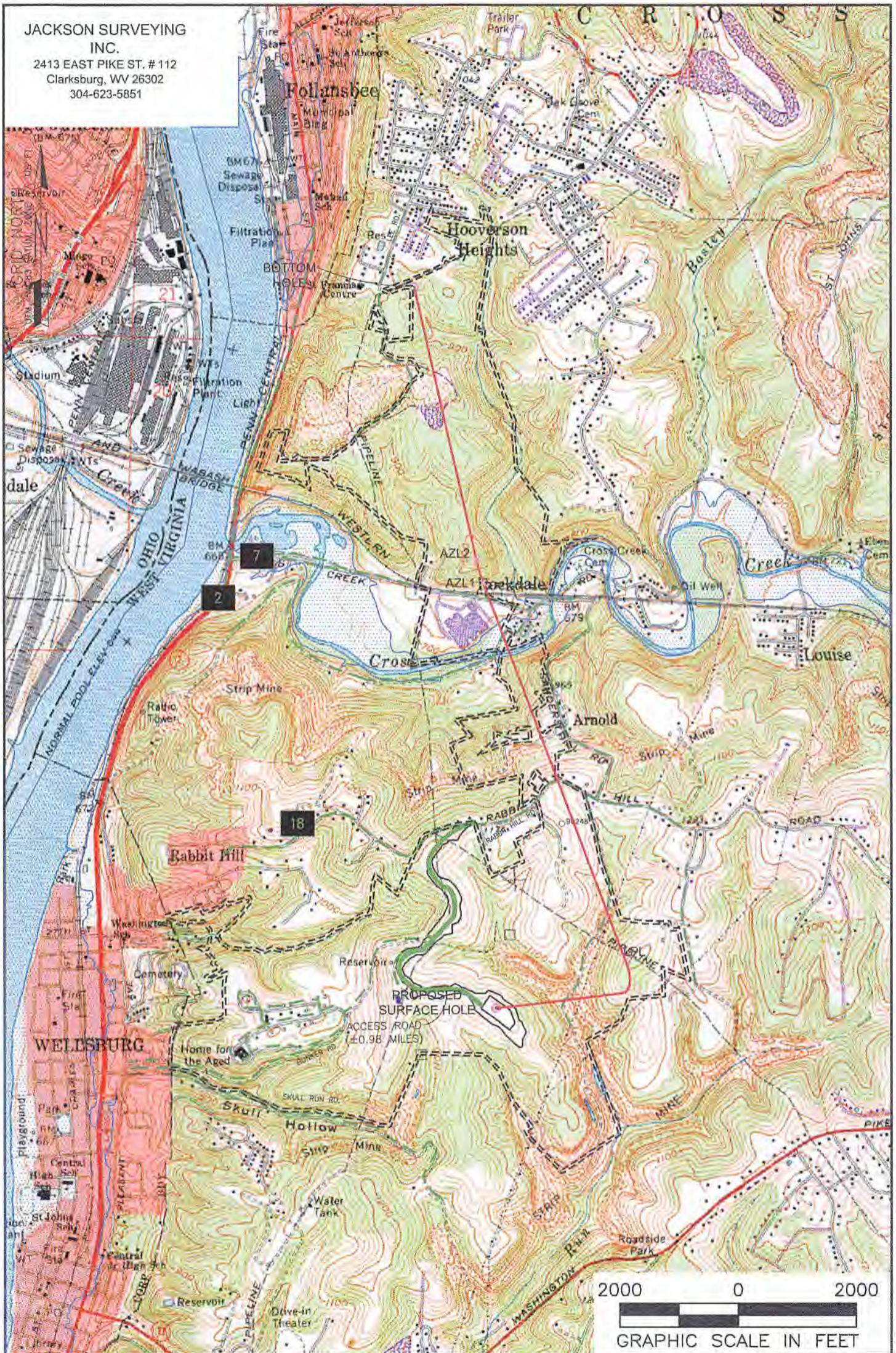
SWN PRODUCTION COMPANY, LLC – CONFIDENTIAL

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FEB 11 2020

WV Department of  
Environmental Protection

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



**NOTES ON SURVEY**

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

**LEGEND:**

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

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC		WELL (FARM) NAME: OV ROYALTY TRUST LLC BRK		WELL # 405H	SERIAL #
ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 MORGANTOWN, WV 26508		COUNTY - CODE BROOKE - 009	DISTRICT; CROSS CREEK		
SURFACE OWNER: THE GENE CHARLES VALENTINE TRUST DATED 11/26/86		USGS 7 1/2 QUADRANGLE MAP NAME STUEBENVILLE EAST, WV			

JACKSON SURVEYING INC.

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

SURFACE HOLE LOCATION (SHL):

UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,459,545.744  
EASTING: 535,347.423

LANDING POINT LOCATION (LPL):

UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,459,815.496  
EASTING: 536,003.686

AZIMUTH POINT LOCATION 1 (AZL1):

UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,461,722.335  
EASTING: 535,283.762

AZIMUTH POINT LOCATION 2 (AZL2):

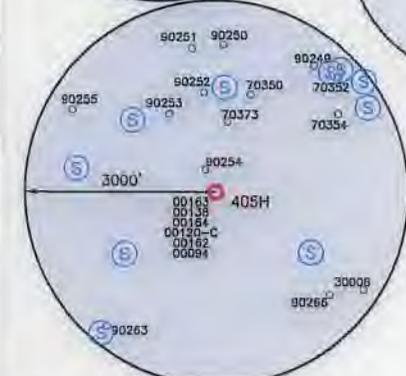
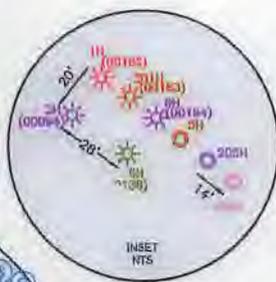
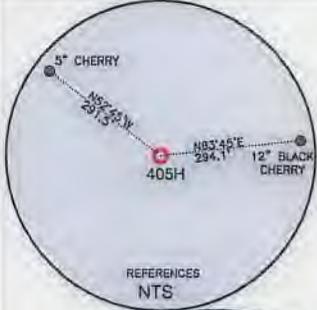
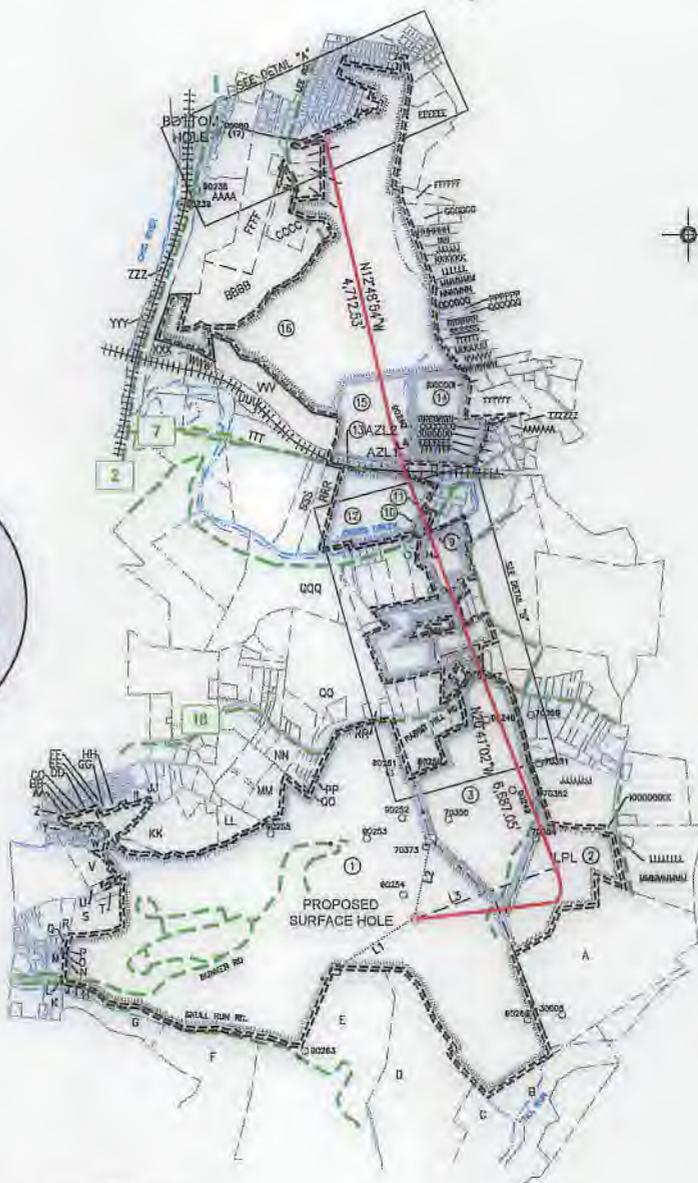
UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,461,837.025  
EASTING: 535,249.247

BOTTOM HOLE LOCATION (BHL):

UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,463,237.630  
EASTING: 534,930.654

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

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	S 58°04'32" W	1494.08'	SHL TO LANDMARK	FD. 1" IRON PIN
L2	N 10°52'11" E	1247.38'	SHL TO LANDMARK	FOUND STONE
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	N 67°39'19" E	2327.68'	2862.68'	SHL TO LPL
L4	N 16°44'56" W	392.95'	393.24'	AZL1 TO AZL2



WELL RESTRICTIONS

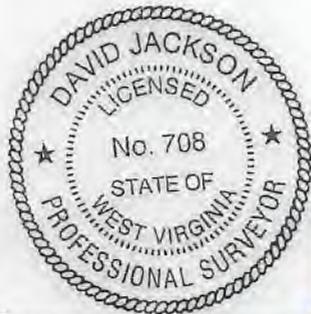
1. NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
2. NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
3. NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
4. NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE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

NOTES ON SURVEY

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

P.S. 708

David L Jackson



COMPANY: **SWN** Production Company, LLC



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

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

MINIMUM DEGREE OF ACCURACY: 1/200  
PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)

OV ROYALTY TRUST LLC BRK  
OPERATOR'S WELL #: 405H  
API WELL #: 47 009 00307  
STATE COUNTY PERMIT

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

WATERSHED: PAINTERS RUN OF BUFFALO CREEK (HUC-10) ELEVATION: 1180.5'

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

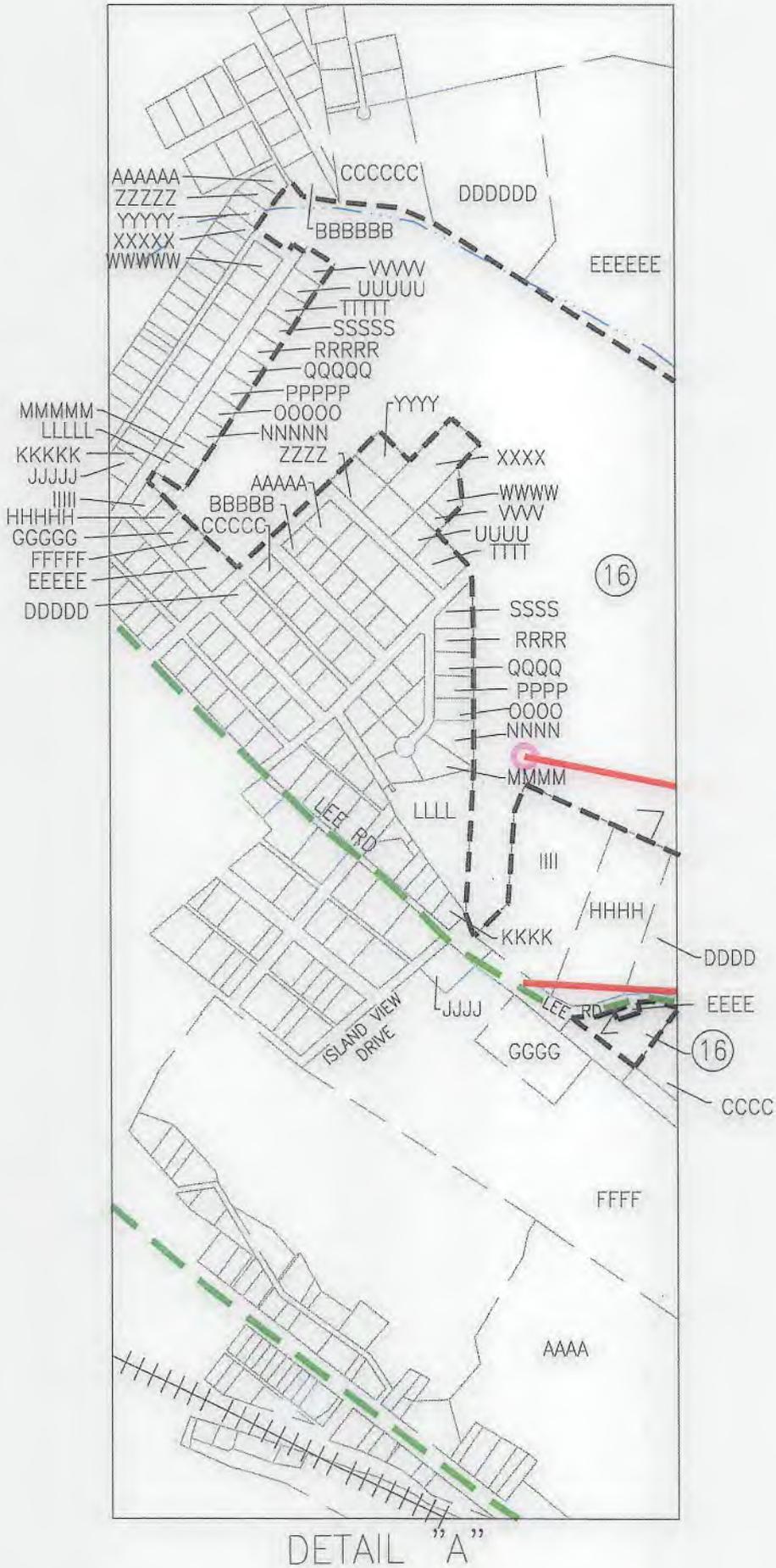
CONVERT  PLUG & ABANDON  CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY)

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 5,787' TVD 18,511' TMD

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

LEGEND:	REVISIONS:	DATE:
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	— SURVEYED BOUNDARY	01-29-2020
⊙ EXISTING / PRODUCING WELLHEAD	— DRILLING UNIT	
LPL ⊙ LANDING POINT LOCATION	— LEASE BOUNDARY	
⊙ EXISTING WATER WELL	— PROPOSED PATH	
⊙ EXISTING SPRING	AZL ⊙ AZIMUTH POINT LOCATION	
		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"

REVISIONS:	COMPANY:		DATE: 01-29-2020	
	 			
	OPERATOR'S OV ROYALTY TRUST LLC BRK			DRAWN BY: N. MANO
	WELL #: 47-001-00307 405H			SCALE: N/A
	DISTRICT: CROSS CREEK	COUNTY: BROOKE		STATE: WV
			WELL LOCATION PLAT 2	

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



DETAIL "B"

REVISIONS:	COMPANY:		
			
	OPERATOR'S OV ROYALTY TRUST LLC BRK		DATE: 01-29-2020
	WELL #: 47-001-00307 405H		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  
304-623-5861

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	DONNA KATHRYN HALL	4-CC23-229
3	CHARLES KIRCHNER & JUDITH KIRCHNER ALLEMAN, ET AL	4-CC23-230
4	FLOYD EUGENE TAYLOR & RHONDA C. TAYLOR	4-CC23-5
5	FLOYD EUGENE TAYLOR & RHONDA C. TAYLOR	4-CC23-6
6	FLOYD E. TAYLOR SR. & RHONDA C. TAYLOR (SURV)	4-CC23-4
7	JAMES DODD, JEANNE MCGILL, & ROBIN GEORGE	4-CC19-13
8	DANIEL MCGOWAN & MARJORIE G. MCGOWAN	4-CC19-5
9	CAMPBELL SHELDON PALIZZI	4-CC19-25
10	TRAVIS JAMES MCALEER & KAREN A. PIEHS	4-CC19-26
11	RICHARD E. RYAN & CAROLYN G. RYAN	4-CC19-27
12	BOARD OF EDUCATION	4-CC18-33
13	NORFOLK & WESTERN RAILWAY CO.	4-C19K-18
14	BOARD OF EDUCATION	4-CC19-38
15	BOFFO FAMILY LIMITED PARTNERSHIP	4-CC18-32
16	BOFFO FAMILY LIMITED PARTNERSHIP	4-CC18-7

ADJOINING OWNERS TABLE			ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL	TRACT	SURFACE OWNER	TAX PARCEL
A	JAMES LUNSFORD	04-CC23-203	GGG	JASON CARBASHO	04-CC18-54
B	SCHIAPPA & COMPANY, INC.	04-CC28-2	HHH	MONONGAHELA POWER CO.	04-CC19-12
C	JOHN W. & NANCY TRAUBERT	04-CC23-234	III	BOARD OF EDUCATION	04-CC19-11
D	PAUL LISH & PATRICIA ANN LISH	04-CC22-50	JJJ	PHYLLIS MARKER	04-CC18-41
E	OV ROYALTY TRUST LLC	04-CC22-49	KKK	JEAN SHIRLEY DOUBLES	04-CC18-44
F	RONALD CONAWAY, DONALD CONAWAY & PATRICIA CONAWAY	04-CC22-47	LLL	ROBIN L. HIMMERLICK (LE ELLA MAE HAYMAN)	04-CC18-45
G	SAMUEL J. & MELANIE A. DONINI	04-CC22-45	MMM	GARY HENTHORN	04-CC18-46
H	LOUIS M. & TINA L. MCGOWAN	04-CC22-44	NNN	ROBIN L. HIMMERLICK (LE ELLA MAE HAYMAN)	04-CC18-47
I	TINA L. MCGOWAN	04-CC22-43	OOO	JAMES DODD, ROBIN GEORGE, & JEANNE MCGILL	04-CC18-48
J	MICHAEL E. FRIEND	04-CC22-42	PPP	JAMES DODD, ROBIN GEORGE, & JEANNE MCGILL	04-CC18-49
K	JOHN C. BOBER III & JENNIFER R. BOBER	07-W22L-18	QQQ	THOMAS M. BOYD, RICHARD A. BOYD, DAVID S. BOYD, TRUSTEES IN TRUST OF THOMAS J. BOYD	04-CC18-57
L	UNKNOWN	07-W22L-17	RRR	BOARD OF EDUCATION	04-CC18-34
M	RICHARD L. FRYER	07-W22L-11	SSS	BOARD OF EDUCATION	04-CC18-35
N	CHRISTINE L. ICE	07-W22L-8	TTT	BOARD OF EDUCATION	04-CC18-37
O	CHRISTINE L. ICE	07-W22L-9	UUU	NORFOLK & WESTERN RAILWAY CO.	04-C19K-18
P	CHRISTINE L. ICE	07-W22L-10	VVV	BOARD OF EDUCATION	04-CC18-31
Q	LARRY N. CLEMONS & SANDRA K. CLEMONS	07-W22L-4	WWW	NORFOLK & WESTERN RAILWAY CO.	04-CC18-28
R	UNKNOWN	07-W22L-5	XXX	PITTSBURGH & WVA RAILWAY CO.	04-CC18-27
S	WILLIAM RIGGS	04-C22G-82	YYY	PITTSBURGH & WVA RAILWAY CO.	04-CC18-21
T	ROBERT J. ZAMPINI	04-C22G-81	ZZZ	BELLAIRE HARBOR SERVICES LLC (LE REBECCA JOHNSON)	04-CC18-20
U	ROBERT J. ZAMPINI	04-C22G-80	AAAA	ILONA POGGI	04-CC18-14
V	T.H. CALDWELL HEIRS	04-C22G-79	BBBB	BOFFO FAMILY LIMITED PARTNERSHIP	04-CC18-5
W	JACKIE RAY COLLEY, ROBERTA G. COLLEY	04-C22G-64	CCCC	JAC-FRED WV LLC A NORTH CAROLINA LLC	04-CC18-6
X	JACKIE COLLEY, ROBERTA G. COLLEY	04-C22G-63	DDDD	LG - OHI FOLLANSBEE, LLC	04-CC18-9
Y	FRANKLIN FRAGALE	07-W22G-7	EEEE	LG - OHI FOLLANSBEE, LLC	04-CC18-8
Z	JOHN WHITE, ROBERT WHITE, SHARON FREY, LE KATHRYN WHITE, RALPH WHITE, JEFFERY WHITE	07-W22G-5	FFFF	BISHOP OF CATHOLIC DIOCESE WHEELING/CHARLESTON	04-CC18-2
AA	JOHN WHITE, ROBERT WHITE, SHARON FREY, LE KATHRYN WHITE, RALPH WHITE, JEFFERY WHITE	04-C22G-8	GGGG	CITY OF FOLLANSBEE	04-CC18-4
BB	DAVID R. ROTHWELL & WYNONNA ROTHWELL	04-C22G-19	HHHH	LG - OHI FOLLANSBEE, LLC	04-CC18-10
CC	DAVID ROGER ROTHWELL, C/O JOHN BASSETT	04-C22G-20	IIII	JAC-FRED WV LLC A NORTH CAROLINA LLC	04-CC18-11
DD	JUDITH L. FOWLER	04-C22G-31	JJJJ	COLUMBIA GAS	04-CC18-3
EE	VIRGINIA PRICE	04-C22G-33	KKKK	KENT ORBAN	04-CC18-12
FF	GEORGE ENNIS	04-C22G-44	LLLL	BURL R. WILLIAMS JR.	04-C14S-218
GG	GEORGE F. ENNIS	04-C22G-45	MMMM	MICHAEL EICHNER & LINDA S. EICHNER	04-C14S-74
HH	EARL W. MILLER JR.	04-C22G-46	NNNN	MICHAEL EICHNER & LINDA S. EICHNER	04-C14S-75
II	MARK KOSCEVIC	04-C22G-32	OOOO	CARL FREDERICK BOFFO	04-C14S-76
JJ	TERRY L. SMITH & LORA J. SMITH	04-C22G-122	PPPP	TERRY L. FRANKENFIELD & CHERYL L. FRANKENFIELD	04-C14S-77
KK	FRANK CARUSO & LISA C. CARUSO	04-C22G-60	QQQQ	STEPHEN PRITCHARD & BARBARA PRITCHARD	04-C14S-78
LL	CHARLES R. BOGGS	04-C22G-57	RRRR	DAVID W. BARNHART & PAMELA A. BARNHART	04-C14S-79
MM	CHARLES ISINGHOOD SR.	04-CC22-32	SSSS	RAYMOND H. MCCOY JR. & CYNTHIA S. MCCOY	04-C14S-80
NN	JIMMIE D. GEORGE & ROBIN J. GEORGE	04-CC22-31	TTTT	RICHARD C. DEARTH & STACEY A. DEARTH	04-C14S-81.1
OO	DALE E. ADAMS & MARY K. ADAMS	04-CC22-30	UUUU	BRIAN BEATTY	04-C14S-81.2
PP	STEVEN P. DIPASQUALE & MARCY DIPASQUALE	04-CC22-26	VVVV	BRIAN L. BEATTY	04-C14S-219
QQ	DONALD C. TAYLOR JR. & JOAN WILLIAMS ET AL	04-CC22-20	WWWW	BRIAN L. BEATTY	04-C14S-226
RR	ERIN R. SNODGRASS	04-CC22-21	XXXX	CHRISTOPHER O. RAY & KAREN L. RAY	04-C14S-225
SS	RON MICHAUX ET AL (LC JASON & DEANNA GALLOWAY)	04-CC22-22	YYYY	MARK BARBETTA & DAWN BARBETTA	04-C14S-222
TT	CAROLYN F. FREEMAN	04-CC22-25	ZZZZ	MARK BARBETTA & DAWN BARBETTA	04-C14S-81.4
UU	CAROLYN F. FREEMAN & LAWRENCE FREEMAN	04-CC23-232	AAAAA	MICHAEL P. ROSKANDICH & KELLY J. ROSKANDICH	04-C14S-81.3
VV	DORIS J. KIRCHNER	04-CC23-231	BBBBB	GARY L. WILLIAMS & SHARON J. WILLIAMS	04-C14S-84
WW	SHAWN CALDWELL	04-CC23-3	CCCCC	AARON BURCH	04-C14S-97
XX	JAMES HARWELL DODD JR.	04-CC23-1	DDDDD	BONNIE S. SHAWN	04-C14S-98
YY	JAMES HARWELL DODD & LYNN I. DODD	04-CC22-24	EEEEE	CARL FREDERICK BOFFO	04-C14S-128
ZZ	DONNA MARIE PRICE	04-CC22-23	FFFFF	JAC-FRED WV LLC A NORTH CAROLINA LLC	04-C14S-129
AAA	JAMES DODD, ROBIN GEORGE, & JEANNE MCGILL	04-CC18-53	GGGGG	JAC-FRED WV LLC A NORTH CAROLINA LLC	04-C14S-130
BBB	JAMES DODD, ROBIN GEORGE, & JEANNE MCGILL	04-CC18-52	HHHHH	JAC-FRED WV LLC A NORTH CAROLINA LLC	04-C14S-131
CCC	JAMES D. BUCHWACH	04-CC18-50	IIIII	LAURA M. FRIEND	04-C14S-132
DDD	JAMES D. BUCHWACH	04-CC18-51	JJJJJ	ERNEST C. FRIEND, JR. & ROSALIND FRIEND	04-C14S-153
EEE	JAMES D. BUCHWACH	04-CC18-43	KKKKK	JAMES R. BINGIEL SR.	04-C14S-152
FFF	JOHN P. HOSLER & GERALDINE HOSLER	04-CC18-42	LLLLL	RAY L. ADAMS & LISA M. ADAMS	04-C14S-133

REVISIONS:	COMPANY:	 	
	OPERATOR'S	OV ROYALTY TRUST LLC BRK	DATE: 01-29-2020
	WELL #:	47-001-06307 405H	DRAWN BY: N. MANO
	DISTRICT:	CROSS CREEK	SCALE: N/A
	COUNTY:	BROOKE	DRAWING NO:
	STATE:	WV	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
MMMM	RONALD C. PENROD & JUDITH A. PENROD	04-C14S-134	BBBBBB	CHARLES M. ULRICH	04-CC19-43
NNNN	CHAS & AURORA LOPEZ	04-C14S-135	CCCCCC	CHARLES M. ULRICH	04-CC19-42
OOOO	SHIRLEY M. KIRTLEY	04-C14S-136	DDDDDD	KENNETH J. ULRICH & MICHAELLYNN ULRICH	04-CC19-41
PPPP	MEGAN E. PINTUS	04-C14S-137	EEEEEE	KENNETH J. ULRICH & MICHAELLYNN ULRICH	04-CC19-40
QQQQ	TIFFANY WILLIAMS	04-C14S-138	FFFFFF	GEORGE PAULL PFISTER III	04-CC19-39
RRRR	BRIAN L. SMITH & DAWN E. SMITH	04-C14S-139	GGGGGG	BROOKE COUNTY COMMISSION	04-CC19-193
SSSS	JOHN M. KUZMA & PATRICIA A. KUZMA	04-C14S-140	HHHHHH	BOARD OF EDUCATION	04-CC19-38.1
TTTT	ELMER SANDRETH JR. & REBECCA SANDRETH	04-C14S-141	IIIIII	JAMES BURNS, RANDY COLLINS	04-CC19-14
UUUU	THOMAS E. BOREMAN & SHARON BOREMAN	04-C14S-142	JJJJJJ	H3 LLC	04-CC19-36
VVVV	THOMAS E. BOREMAN & SHARON BOREMAN	04-C14S-223	KKKKKK	JEFFERY SCOTT YOUNG, MELANIE DAWN MAXWELL	04-CC19-35
WWWW	GARY W. POWELL	04-C14S-143	LLLLLL	RANDY KOWALCZYK & LINDA LOUSIE KOWALCZYK	04-CC19-34
XXXX	HAROLD WAUGH & SHIRLEY WAUGH	04-C14S-174	MMMMMM	RANDY KOWALCZYK & LINDA LOUSIE KOWALCZYK	04-CC19-33
YYYY	HAROLD WAUGH & SHIRLEY WAUGH	04-C14S-175	NNNNNN	RANDY KOWALCZYK & LINDA LOUSIE KOWALCZYK	04-CC19-32
ZZZZ	HAROLD WAUGH & SHIRLEY WAUGH	04-C14S-176	OOOOOO	TERRY R. JOHNSON & BETH ANN JOHNSON	04-CC19-28
AAAA	CITY OF FOLLANSBEE	04-C14S-177	PPPPPP	RANDY LEE KOWALCZYK & LINDA LOUISE KOWALCZYK	04-CC19-29
BBBB	TERESA CIONINI	04-C15N-58	QQQQQQ	CAMPBELL SHELDON PALIZZI	04-CC19-24
CCCC	NORMA B. TRAUBERT, ET AL	04-C15N-77	RRRRRR	CAMPBELL SHELDON PALIZZI	04-CC19-23
DDDD	SHERI A. STIFT	04-C15N-87	SSSSSS	FRANKLIN M. AFTANAS JR. & DEBRA D. AFTANAS	04-CC19-22
EEEE	DEAN RICHARDSON & SHARON RICHARDSON	04-C19A-10	TTTTTT	FRANKLIN M. AFTANAS JR. & DEBRA D. AFTANAS	04-CC19-20
FFFF	ANGELA FORD	04-C19A-106	UUUUUU	MARTIN J. BARTZ JR.	04-CC19-18
GGGG	WILLIAM D. SECRIST JR.	04-C19A-116.1	VVVVVV	DENNIS K. YOST DBA KEITH YOST EXCAVATING	04-CC19-5
HHHH	RICK SNYDER & ESTHER SNYDER	04-C19A-117	WWWWWW	ROGER L. JONES & JULIA ANN JONES	04-CC19-2
IIII	VERA HUNT BOFFO	04-C19A-137	XXXXXX	CHARLES A. HOGGARD	04-CC19-7
JJJJ	JADE M. WEEKS & CHRISTOPHER D. WEEKS	04-C19A-138	YYYYYY	FRANK E. SMITH & DORTHA JEAN SMITH, JEFF E. SMITH ET AL	04-CC19-9
KKKK	BARBARA GEARY	04-C19A-146	ZZZZZZ	FRANK E. SMITH & DORTHA JEAN SMITH, JEFF E. SMITH ET AL	04-CC19-10
LLLL	JAMES H. JONES JR., KEVI JONES, DIANNA L. CORDER JONES	04-C19E-4	AAAAAAA	FRANK E. SMITH & DORTHA JEAN SMITH, JEFF E. SMITH ET AL	04-CC19-8
MMMM	CHRISTINE A. BEARD ROSNOVICH & GEORGE B. ROSNOVICH	04-C19E-5	BBBBBBB	DANIEL E. MCGOWAN & MARJORIE G. MCGOWAN	04-CC23-12
NNNN	DARRELL HENLINE & DONNA HENLINE	04-C19E-6	CCCCCCC	DONALD R. HALL & BEVERLY J. HALL	04-CC23-9
OOOO	REBECCA S. BELL, THOMAS C. BELL	04-C19E-7	DDDDDDD	DONALD R. HALL & BEVERLY J. HALL	04-CC23-8
PPPP	REBECCA S. BELL, THOMAS C. BELL	04-C19E-9	EEEEEEE	DONALD R. HALL & BEVERLY J. HALL	04-CC23-7
QQQQ	DONALD P. MCABEE, DENA D. MCABEE	04-C19E-10	FFFFFFF	ROBERT EVAN MOZINGO, HERBERT MOZINGO, JEFFERY MOZINGO, CHRISTINE STEIN	04-CC23-11
RRRR	JEFFERY LOUIS FODOR & DREMA DAWN FODOR	04-C19E-12	GGGGGGG	HENRY CUNNINGHAM	04-CC23-225
SSSS	JOSHUA A. HOOKER, JOSEPH C. HOOKER, LE BETH HOOKER	04-C19E-14	HHHHHHH	KIM E. & ARCHIE L. DOLL	04-CC23-226
TTTT	RALPH W. ROWLAND & WILDA K. ROWLAND	04-C19E-17	IIIIIIII	ROD E. PATTISON & CYNTHIA A. PATTISON	04-CC23-227
UUUU	VIRGINIA L. HADDON	04-C19E-19	JJJJJJJ	RANDALL P. DOLL & KIMBERLY JO DOLL	04-CC23-204
VVVV	DONALD K. NORCROSS, LAURA R. NORCROSS BARNES	04-C19E-24	KKKKKKK	LARRY J. GRAY & BARBARA S. GRAY	04-CC23-228
WWWW	JACKIE L. FRITZ & KEVIN M. FRITZ	04-C19E-27	LLLLLLL	ARTHUR J. FRIEND (LE NORMA JEAN FRIEND)	04-CC23-202
XXXX	ROBERT & BRIANA M. HINKLE (JTWS)	04-C19E-29.1	MMMMMMM	HUBERT S. RIGGS & WANDA JO RIGGS	04-CC23-201
YYYY	CHARLES PAUL ULRICH	04-CC19-88			
ZZZZ	MARY ANN COX	04-CC19-48			
AAAA	JOHN R. CARE & DORIS JUNE CARE	04-CC19-46			

REVISIONS:	COMPANY:	 	
	OPERATOR'S	OV ROYALTY TRUST LLC BRK	DATE: 01-29-2020
	WELL #:	47-001-80307 405H	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 405H

**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

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 Brainerd*  
 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 405H  
Brooke County, West Virginia

RECEIVED  
Office of Oil and Gas

FEB 11 2020

WV Department of  
Environmental Protection

#	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-CC23-0229-0000	Donna Kathryn Hall, a widow	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	11/317 30/480
3)	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% 12.50%	53/245 396/555 (Mineral Deed)
4)	04-CC23-0005-0000	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% 12.50%	54/265 396/555 (Mineral Deed)
5)	04-CC23-0006-0000	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% 12.50%	54/265 396/555 (Mineral Deed)
6)	04-CC23-0004-0000	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% 12.50%	54/265 396/555 (Mineral Deed)
7)	04-CC19-0013-0000	Eunice Jeanne Dodd, a widow	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	20/689 30/480
8)	04-CC19-0006-0000	Daniel McGowan and Marjorie G. McGowan, husband and wife H3 LLC, a West Virginia Limited Liability Company, by Michael E. Hoeft, its Manager	SWN Production Company, L.L.C. SWN Production Company, LLC	17.00% 18.00%	36/777 54/265

		SWN Production Company, LLC (Company Owned Minerals)		12.50%	396/555 (Mineral Deed)
9)	04-CC19-0025-0000	Campbell Sheldon Palizzi, a single man	SWN Production Company, L.L.C.	18.00%	40/506
10)	04-CC19-0026-0000	Karen A. Piehs, a single woman	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	14/144 30/480
		William D. McAleer, a single man	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	11/468 30/480
11)	04-CC19-0027-0000	Richard E. Ryan and Carolyn G. Ryan, husband and wife	SWN Production Company, L.L.C.	16.00%	36/432
12)	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
13)	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
14)	04-CC19-0038-0000	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
15)	04-CC18-0032-0000	The Boffo Family Limited Partnership, a West Virginia Limited Partnership	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	17.00%	12/82 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

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WV Department of  
Environmental Protection



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

January 27, 2020

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

**RE:** SWN's proposed New Well: OV Royalty Trust LLC BRK 405H in Brooke County, West Virginia, Drilling under Lee Road, Cross Creek Road, Rabbit Hill Road, and Jamison Lane.

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 Lee Road, Cross Creek Road, Rabbit Hill Road, and Jamison Lane. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you.

Sincerely,

Bailey Brougher  
Landman – SW Appalachia  
SWN Production Company, LLC

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Office of Oil and Gas

FEB 11 2020

WV Department of  
Environmental Protection

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



**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 17<sup>th</sup> 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](mailto:deprivacyofficer@wv.gov).

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Office of Oil and Gas

FEB 11 2020

WV Department of  
Environmental Protection

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

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

**Date of Notice:** 2/11/20 **Date Permit Application Filed:** 2/11/20

**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: \_\_\_\_\_

COAL OWNER OR LESSEE  
 Name: OV Royalty Trust LLC  
 Address: PO Box 31  
Wellsburg, WV 26070

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

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

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)  
 Name: None  
 Address: \_\_\_\_\_

SURFACE OWNER(s) (Impoundments or Pits)  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_

OPERATOR OF ANY NATURAL GAS STORAGE FIELD  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_

\*Please attach additional forms if necessary

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Office of Oil and Gas

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**Notice is hereby given:**

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

**This Notice Shall Include:**

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

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

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

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

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

**Well Location Restrictions**

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

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

**Water Well Testing:**

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

**Water Testing Laboratories:**

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

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

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

**Written Comment:**

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

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

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

**Time Limits and Methods for Filing Comments.**

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

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

**Comment Requirements**

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

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

**Permit Denial or Condition**

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

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

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

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

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Environmental Protection

WW-6A  
(8-13)

API NO. 47- 009 -  
OPERATOR WELL NO. OV Royalty Trust LLC BRK 4  
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](mailto:deprivacyofficer@wv.gov).



Subscribed and sworn before me this 17<sup>th</sup> day of Oct., 2019.

Jessica L. Vangilder Notary Public

My Commission Expires 7-20-20

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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**

- 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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

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

Address: 1300 Fort Pierpont Dr., Suite 201  
Morgantown, WV 26506  
 Facsimile: 304-884-1690

**Oil and Gas Privacy Notice:**

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

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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**

- 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: 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>
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 Royally 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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

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

**Oil and Gas Privacy Notice:**

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

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Environmental Protection

WW-6A3  
(1/12)

Operator Well No. OV Royalty Trust LLC BRK

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

\*please attach additional forms if necessary

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**Notice is hereby given:**

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

State: 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

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 5<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

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

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

**Oil and Gas Privacy Notice:**

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

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

\*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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

Well Operator: SWN PRODUCTION COMPANY, LLC  
Telephone: 304-884-1510  
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

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

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

\*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

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

**Notice is hereby given by:**

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

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

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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: Christina M. Garrett  
Address: 73 Lake Road  
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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Notice is hereby given by:

Well Operator: <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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Operator Well No. OV Royalty Trust LLC BRK

**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: Alicia Howard  
Address: 12 Cobblestone Drive  
Valley Grove, WV 26060

\*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

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(1/12)

Operator Well No. OV Royalty Trust LLC BRK

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

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

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Email: <u>Brittany_Woody@swn.com</u>	Facsimile: <u>304-884-1690</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: Burton R. Lauck  
Address: 6067 Ferris Road  
Eaton Rapids, MI 48827

*\*please attach additional forms if necessary*

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**Notice is hereby given by:**

Well Operator: SWN PRODUCTION COMPANY, LLC

Telephone: 304-884-1610

Email: Brittany\_Woody@swn.com

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Morgantown, WV 26508

Facsimile: 304-884-1690

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

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

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FEB 11 2020

**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: 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: <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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

Well Operator: <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  
(1/12)

Operator Well No. OV Royalty Trust LLC BRK

**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

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- 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: Alfred C. Leist  
Address: 3366 Edgewood Drive  
Wooster, OH 44691  
\*please attach additional forms if necessary

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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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**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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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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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>

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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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**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: <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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 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

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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

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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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WV Department of

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**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
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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

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 District: Buffalo  
 Quadrangle: Steubenville East

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Morgantown, WV 26508  
 Facsimile: 304-884-1690

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WV Department of  
Environmental Protection

9-00307

WW-6A3  
(1/12)

Operator Well No. OV Royalty Trust LLC BRK

**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: Jerry Wayne Midcap  
Address: PSC 473 Box 8  
FPO AP, 96349  
\*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:	<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>Brillany_Woody@swn.com</u>	Facsimile:	<u>304-884-1690</u>

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 \_\_\_\_\_  
 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

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

COAL OWNER OR LESSEE  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 \_\_\_\_\_

MINERAL OWNER(s)  
 Name: David Brent Queen  
 Address: 51-25th Street  
Wellsburg, WV 26070  
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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  
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\_\_\_\_\_  
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  
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\_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_

COAL OWNER OR LESSEE

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

MINERAL OWNER(s)

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

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\_\_\_\_\_  
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

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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>

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

**Notice is hereby given by:**

Well Operator: SWN PRODUCTION COMPANY, LLC

Telephone: 304-884-1610

Email: Brittany\_Woody@swn.com

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

Facsimile: 304-884-1620

**Oil and Gas Privacy Notice:**

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

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Office of Oil and Gas

FEB 11 2020

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

\*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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

Well Operator: SWN PRODUCTION COMPANY, LLC  
Telephone: 304-884-1810  
Email: Brittany\_Woody@swn.com

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

**Oil and Gas Privacy Notice:**

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

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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: Emmett Wheeler  
 Address: 31518 Plank Lane  
DeLand, FL 32720  
 \*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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Notice is hereby given by:

Well Operator: <u>SWN PRODUCTION COMPANY, LLC</u>	Address: <u>1300 Fort Pierpont Dr., Suite 201</u>
Telephone: <u>304-684-1610</u>	<u>Morgantown, WV 26508</u>
Email: <u>Brittany_Woody@swn.com</u>	Facsimile: <u>304-684-1690</u>

Oil and Gas Privacy Notice:

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

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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**

- 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: Shannon Wheeler  
Address: 15349 SE 182nd Ave  
Umatilla, FL 32784

\*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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

**Well Operator:** SWN PRODUCTION COMPANY, LLC

**Telephone:** 304-884-1610

**Email:** Brittany\_Woody@swn.com

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

**Facsimile:** 304-864-1690

**Oil and Gas Privacy Notice:**

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

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WW-6A3  
(1/12)

Operator Well No. OV Royalty Trust LLC BRK

**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: Ruth Ellen Yazevac  
 Address: 6741 Chartridge Court  
Canal Winchester, OH 43110  
 \*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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

Well Operator:	<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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WV Department of  
Environmental Protection

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

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

**Notice Time Requirement:** Notice shall be provided at least TEN (10) days prior to filing a permit application.

**Date of Notice:** 10/17/2019 **Date Permit Application Filed:** 2/11/20

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

HAND DELIVERY  CERTIFIED MAIL RETURN RECEIPT REQUESTED

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

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

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

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

**Notice is hereby given:**

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

State: West Virginia UTM NAD 83 Easting: 535,347.423  
County: Brooke Northing: 4,459,545.744  
District: Cross Creek Public Road Access: Rabbit Hill Road  
Quadrangle: Steubenville East Generally used farm name: OV Royalty Trust, LLC  
Watershed: Painters Run of Buffalo Creek

**This Notice Shall Include:**

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

**Notice is hereby given by:**

Well Operator: SWN Production Company, LLC  
Address: 1300 Fort Pierpont Dr., Suite 201  
Morgantown, WV 26508  
Telephone: 304-517-6603  
Email: Michael\_Yates@swn.com  
Facsimile: \_\_\_\_\_

Authorized Representative: Mike Yates  
Address: 1300 Fort Pierpont Dr., Suite 201  
Morgantown, WV 26508  
Telephone: 304-517-6603  
Email: Michael\_Yates@swn.com  
Facsimile: \_\_\_\_\_

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WV Department of  
Environmental Protection

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: 10/17/2019 Date Permit Application Filed: 2/16/20

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

CERTIFIED MAIL RETURN RECEIPT REQUESTED  HAND DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)  
(at the address listed in the records of the sheriff at the time of notice):

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

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

Notice is hereby given:

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

State: West Virginia UTM NAD 83 Easting: 535,347.423  
County: Brooke Northing: 4,459,545.744  
District: Cross Creek Public Road Access: Rabbit Hill Road  
Quadrangle: Steubenville East Generally used farm name: OV Royalty Trust, LLC  
Watershed: Painters Run of Buffalo Creek

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Well Operator: SWN Production Company, LLC  
Telephone: 304-517-6603  
Email: Michael\_Yates@swn.com

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

Oil and Gas Privacy Notice:

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WV Department of  
Environmental Protection



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 57<sup>th</sup> Street, SE  
Charleston, WV 25304

Subject: DOH Permit for the OV Royalty Trust LLC Pad, Brooke County

OV Royalty Trust LLC BRK 405H Well Site

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.

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Office of Oil and Gas

FEB 11 2020

WV Department of  
Environmental Protection

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

4700900306

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-Cl200 (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 P550A	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
		Poly (oxy-1,2-ethanediyl) alpha.-tridecyl-.omega.-hydroxy-, branched	69011-36-5
Legend LD-7750W	Scale Control	Methanol	67-56-1
		Phosphonic Acid Salt	Proprietary
MC MX 8-4743	Specialty Product	Sodium Nitrate	7631-99-4

As of 1/16/2020

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Office of Oil and Gas

FEB 11 2020

WV Department of  
Environmental Protection

MISS Utility of West Virginia  
1-800-243-4848  
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!!!



Know what's below.  
Call before you dig.

# 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

**OWNER:**



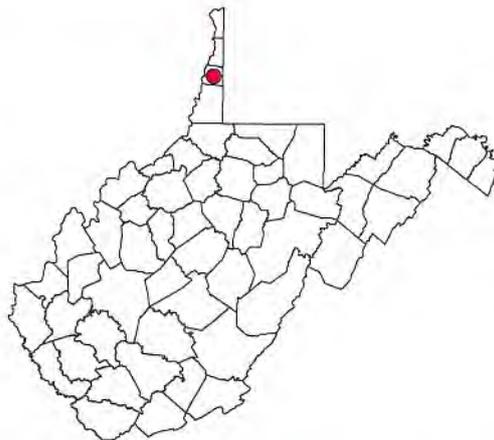
AS-BUILT CERTIFICATION:  
THE DRAWINGS, CONSTRUCTION NOTES, AND  
REFERENCE DIAGRAMS ATTACHED HERETO  
HAVE BEEN PREPARED IN ACCORDANCE WITH  
THE WEST VIRGINIA CODE OF STATE LAWS,  
DIVISION OF ENVIRONMENTAL, OFFICE OF OIL  
AND GAS CBS 35-8

**NOTES:**

- 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 THIS SITE AFTER THE ABOVE MENTIONED DATE.
- THE EXISTING CONTAINMENT BERM AROUND THE WELL PAD(SHALL) BE REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS.
- THE EXISTING BERM TO THE WELL PAD SHALL HAVE THE MOUNTAIN BUILT BERM REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS.

**SHEET INDEX**

- TITLE SHEET
- OVERALL PLAN
- EVACUATION PLAN SHEET
- EVACUATION PLAN SHEET
- LOD MODIFICATION SHEET
- AS-BUILT SITE OVERVIEW SHEET
- ACCESS ROAD PROFILE SHEET
- DETAIL SHEET



● SITE LOCATION



**COORDINATES**

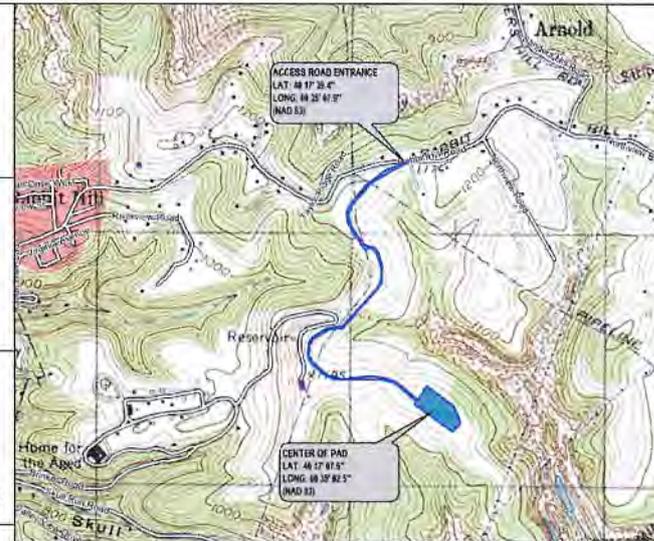
ACCESS ROAD ENTRANCE  
(NAD 83)  
LAT: 40° 17' 39.4"  
LONG: 80° 35' 07.9"

**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



**Triple H**  
Enterprises

REVISIONS

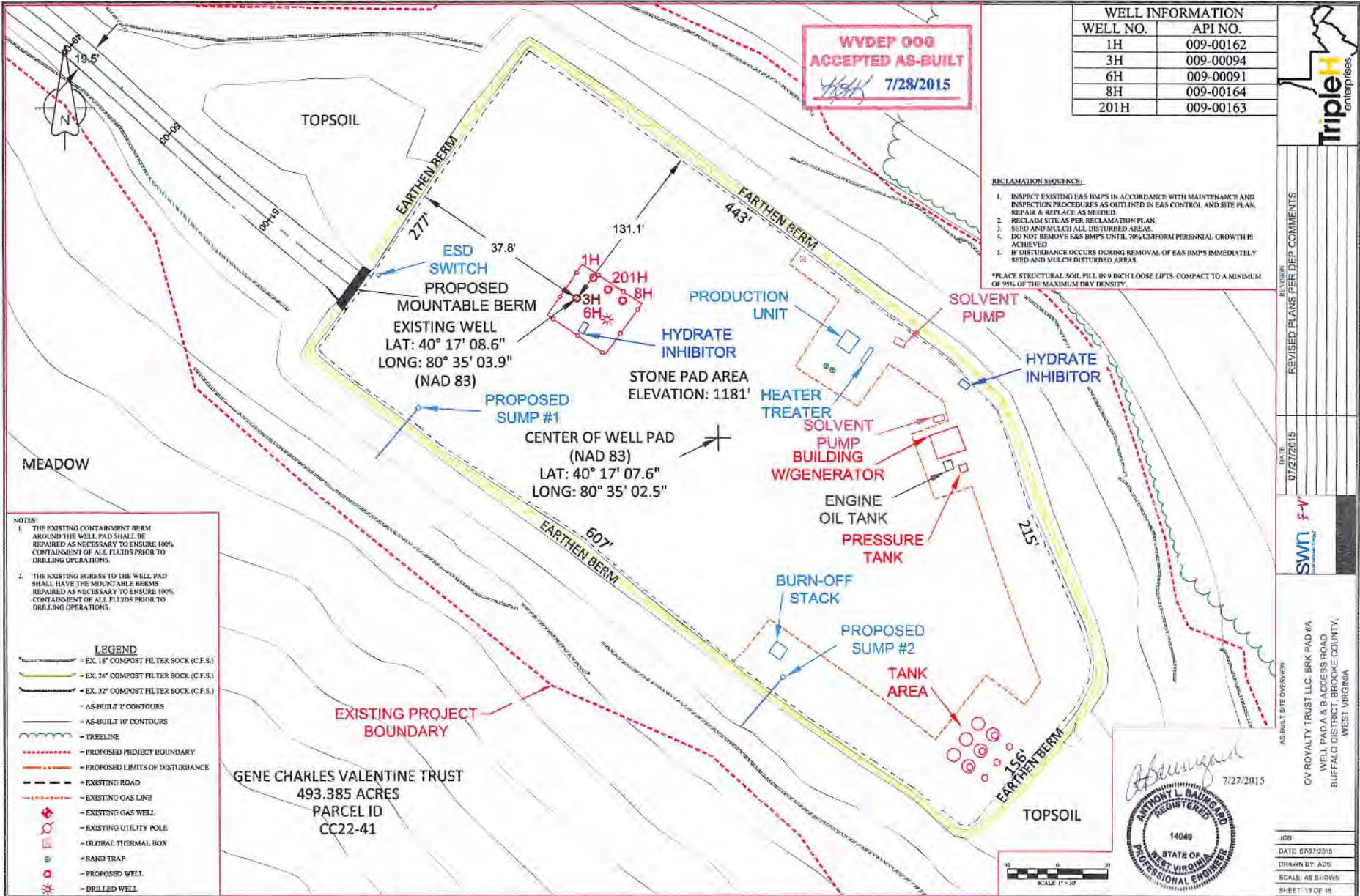
NO.	DATE	DESCRIPTION
1	07/27/2015	REVISED PLANS PER DEP COMMENTS

DATE: 07/27/2015

COVER PLAN SHEET

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: ACS  
SCALE: AS SHOWN  
SHEET: 1 OF 15



**WVDEP 000  
ACCEPTED AS-BUILT**  
*WVDEP* 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 EAS BMPs IN ACCORDANCE WITH MAINTENANCE AND INSPECTION PROCEDURES AS OUTLINED IN EAS CONTROL AND SITE PLAN. REPAIR & REPLACE AS NEEDED.
  2. RECLAIM SITE AS PER RECLAMATION PLAN.
  3. SEED AND MULCH ALL DISTURBED AREAS.
  4. DO NOT REMOVE EAS BMPs UNTIL 70% UNIFORM PERENNIAL GROWTH IS ACHIEVED.
  5. IF DISTURBANCE OCCURS DURING REMOVAL OF EAS BMPs IMMEDIATELY SEED AND MULCH DISTURBED AREAS.
- \*PLACE STRUCTURAL SOIL, FILL IN 9 INCH LOOSE LIFTS. 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

*Anthony L. Baugher*  
7/27/2015  
**ANTHONY L. BAUGHER**  
REGISTERED  
14049  
STATE OF WEST VIRGINIA  
PROFESSIONAL ENGINEER



**TripleH** Enterprises

DATE: 07/27/2015

REVISED PLANS PER DEP COMMENTS

AS BUILT SITE OVERVIEW

DATE: 07/27/2015

REVISED PLANS PER DEP COMMENTS

SWN

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

JDB

DATE: 07/27/2015

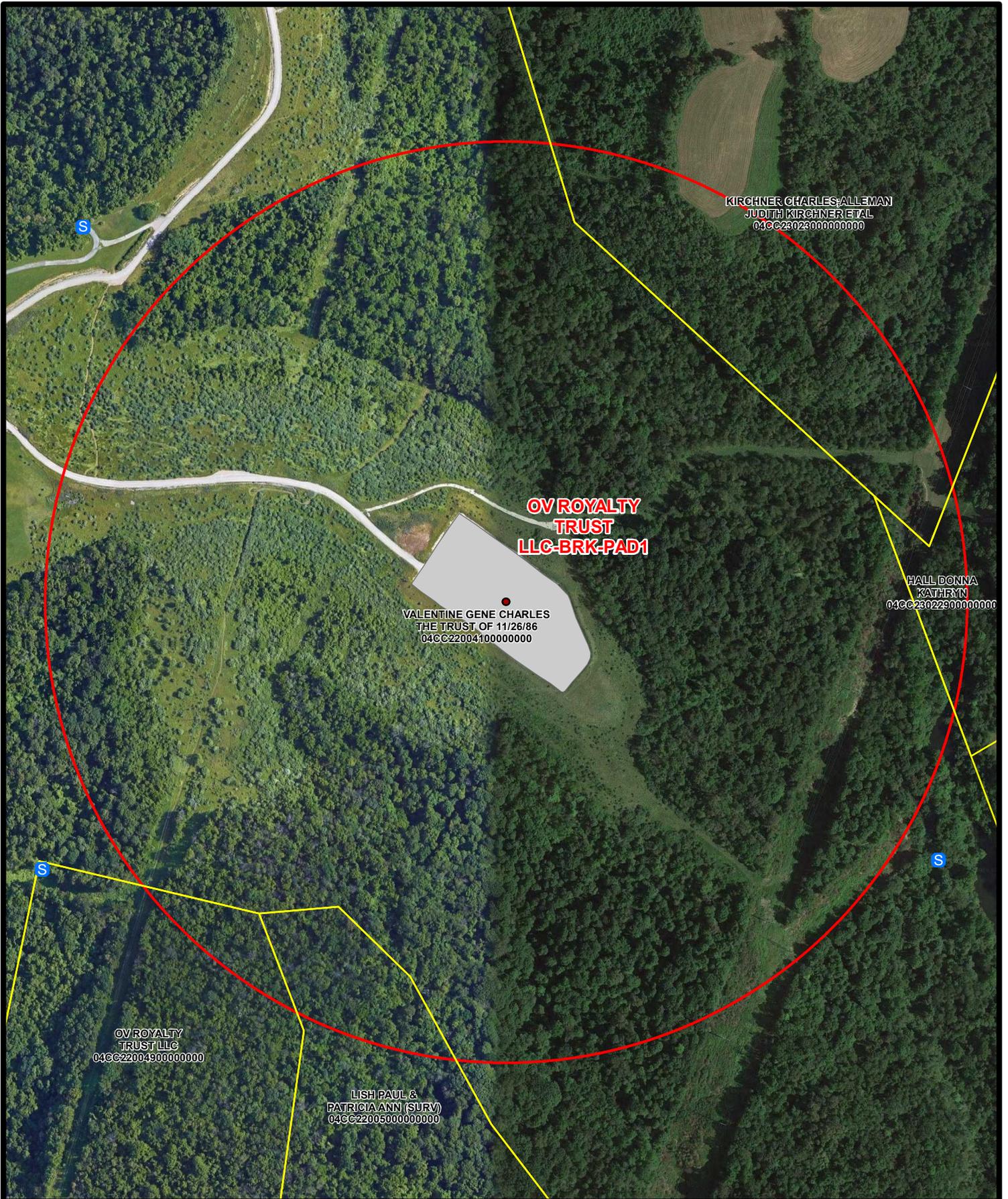
DRAWN BY: ADS

SCALE: AS SHOWN

SHEET: 13 OF 15







KIRCHNER CHARLES ALLEMAN  
 JUDITH KIRCHNER ETAL  
 04CG28024000000000

**OV ROYALTY  
 TRUST  
 LLC-BRK-PAD1**

VALENTINE GENE CHARLES  
 THE TRUST OF 11/26/86  
 04CG22004100000000

HALL DONNA  
 KATHRIN  
 04CG23022900000000

OV ROYALTY  
 TRUST LLC  
 04CG22004900000000

LISH PAUL &  
 PATRICIA ANN (SURV)  
 04CG22005000000000



1 in = 417 ft



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

- S Spring
- W Water Well
- Pond
- Parcel
- 1500' Buffer

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



**Coordinates: 40.285451, -80.58024**

Date: 10/9/2019 Author: willisb



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west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, March 30, 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 205H  
47-009-00305-00-00

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 BR  
Farm Name: THE GENE CHARLES VALEN  
U.S. WELL NUMBER: 47-009-00305-00-00  
Horizontal 6A New Drill  
Date Issued: 3/30/2020

# 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

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

API Number: \_\_\_\_\_

## 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](mailto: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 205H Well Pad Name: OV Royalty Trust LLC BRK
- 3) Farm Name/Surface Owner: The Gene Clark Volensky Trust dated 11/06/01 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
- 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- 5732', Target Base TVD- 5799', Anticipated Thickness- 69', Associated Pressure- 3759
- 8) Proposed Total Vertical Depth: 5783'
- 9) Formation at Total Vertical Depth: Marcellus
- 10) Proposed Total Measured Depth: 18,792' ✓
- 11) Proposed Horizontal Leg Length: 12,289.74'
- 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 Analysis ✓
- 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
- (a) If Yes, provide Mine Info: Name: \_\_\_\_\_  
Depth: \_\_\_\_\_  
Seam: \_\_\_\_\_  
Owner: \_\_\_\_\_

*C. B. 1.8.20*

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JAN 14 2020

WV Department of  
Environmental Protection

WW-6B  
(04/15)

API NO. 47-008 - 00305  
 OPERATOR WELL NO. OV Royalty Trust LLC BRK 22PI  
 Well Pad Name: OV Royalty Trust LLC BRK

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#	18,792'	18,792' ✓	head 7887 of 5044 cu 100 cubic ft
Tubing							
Liners							

*C-TAG 1.8.20*

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							

**PACKERS**

Kind:				
Sizes:				
Depths Set:				

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JUN 14 2020

WV Department of  
Environmental Protection

WW-6B  
(10/14)

API NO. 47- 009 -

OPERATOR WELL NO. OV Royalty Trust LLC BRK 205H

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 \*\*\*

25) Proposed borehole conditioning procedures:

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

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JAN 14 2020

\*Note: Attach additional sheets as needed.

## Schlumberger Cement Additives

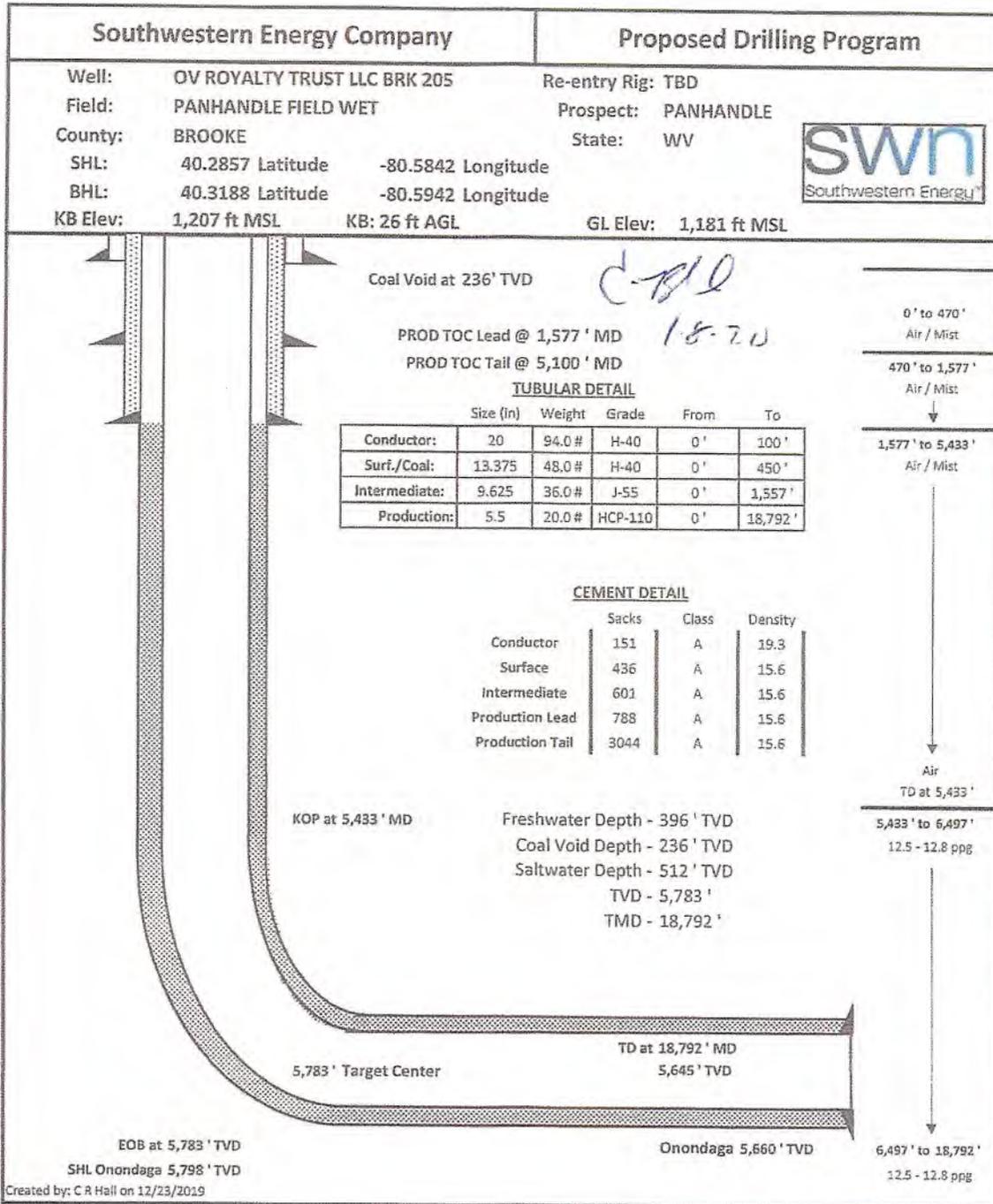
	Product Name	Product Use	Chemical Name	CAS Number
Intermediate Surface	S001	accelerator	calcium chloride up to 3%	10043-52-4
	S001	accelerator	calcium chloride	10043-52-4
Kick Off Plug	D080	dispersant	sodium polynaphthalene sulfonate	9008-63-3
	D801	retarder	aromatic polymer derivative	proprietary
	D047	antifoam	polypropylene glycol	25322-69-4
Production-Lead	D167	fluid loss	aliphatic amide polymer	proprietary
	D154	extender	non-crystalline silica	7631-86-9
	D400	gas migration	boric acid	10043-35-3
	D046	antifoam	polypropylene glycol	25322-69-4
			fullers earth (attapulgate)	8031-18-3
	D201	retarder	chrystalline silica	14808-60-7
			metal oxide	proprietary
	D202	dispersant	sulphonated synthetic polymer	proprietary
formaldehyde (impurity)			proprietary	
Production-Tail	D046	antifoam	polypropylene glycol	25322-69-4
			fullers earth (attapulgate)	8031-18-3
	D167	fluid loss	aliphatic amide polymer	proprietary
			sodium polynaphthalene sulfonate	9008-63-3
	D065	dispersant	sodium sulfate	7757-82-6
			chrystalline silica	14808-60-7
	D201	retarder	metal oxide	proprietary
D153	anti-settling	chrystalline silica	14808-60-7	

Rev. 5/18/2018

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JAN 14 2020

WV Department of  
Environmental Protection



4700900305

WW-9  
(4/16)

API Number 47 - 009 - \_\_\_\_\_  
Operator's Well No. O V Royalty Trust LLC, BRK 205H

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 )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain recovery and solidification )

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. All drill to KOP, fluid out with SQM 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 MSWL0167B1, Wetzel County 1021

Apex Sanitary Landfill 06-08438, Brooke Co SWF-1013,

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

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

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

Company Official Signature *Brittany Woody*

Company Official (Typed Name) Brittany Woody

Company Official Title Senior Regulatory Analyst

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MAR 17 2020

Subscribed and sworn before me this 23 day of December, 2019 WV Department of Environmental Protection

Stephen Teel

My commission expires 5 June 2020



**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: \_\_\_\_\_

*[Signature]* 11-6-19

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

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Environmental Protection

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, SOBM)

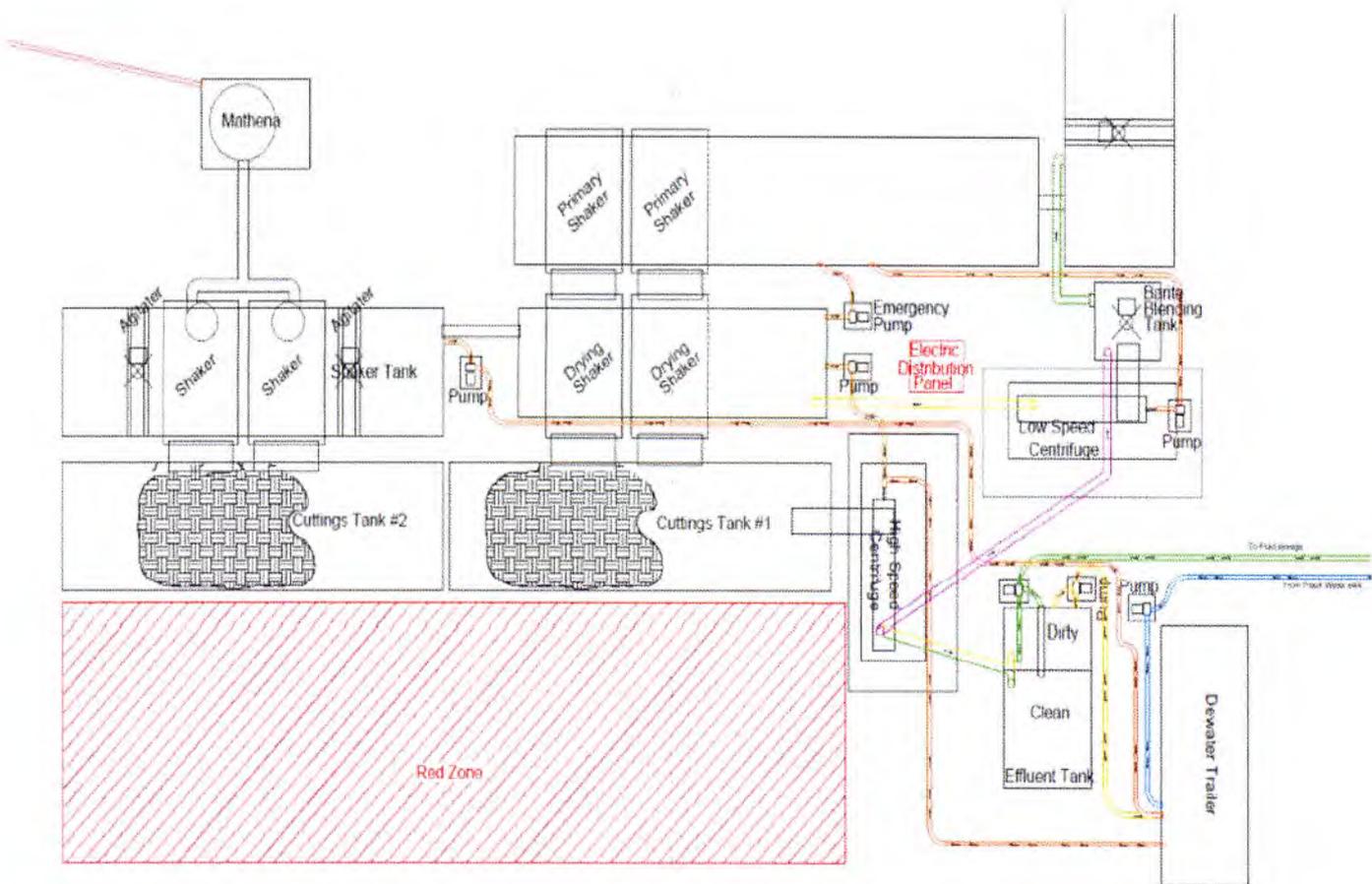
When drilling is converted to liquids drilling, the shale gas separator and associated shaker tank are bypassed, and the liquids system is processed over the primary and drying shaker systems. Cuttings drop into the cuttings tank for additional processing. Any recoverable associated liquids attached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

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# Solids Control Layout



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

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

Air

Freshwater (if needed based on conditions)

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

Air

Brine (In Gas Storage areas)

Organophilic Bentonite

**Production Hole:**

Air

Synthetic Oil (Base Fluid for mud system)

Barite

Calcium Chloride

Lime

Organophilic Bentonite

Primary and Secondary Emulsifiers

Gilsonite

Calcium Carbonate

Friction Reducers

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Attachment 3C

**SWN** Southwestern Energy\*      WV Department of Environmental Protection      **WVD Seeding Specification**       $\frac{R^+}{A} \rightarrow V^+$

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 innoculated at 5x normal rate	
Apply @ 100lbs per acre April 16th- Oct. 14th	
Apply @ 200lbs per acre Oct. 15th- April 15th PLUS 50lbs per acre of Winter Wheat	

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

**Seeding Calculation Information:**

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

**Synopsis:**

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

**Special Considerations:**

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

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

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

# MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN



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

**API NO. 47-XXX-XXXXX**  
**WELL NAME: OV Royalty Trust LLC BRK 205H**  
**Steubenville East QUAD**  
**Cross Creek DISTRICT**  
**Brooke COUNTY, WEST VIRGINIA**

Submitted by:

Name: Brittany Woody

Date: 10/15/2019

*Brittany Woody*

Title: Senior Regulatory Analyst

SWN Production Co., LLC

Approved by:

Name: *[Signature]*

Date: 11-6-19

Title: Oil and Gas Inspector

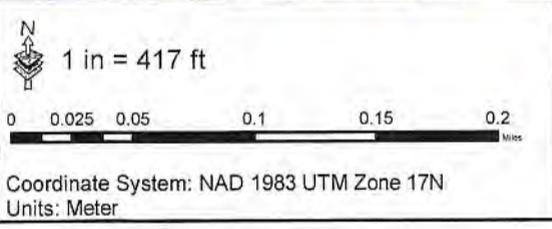
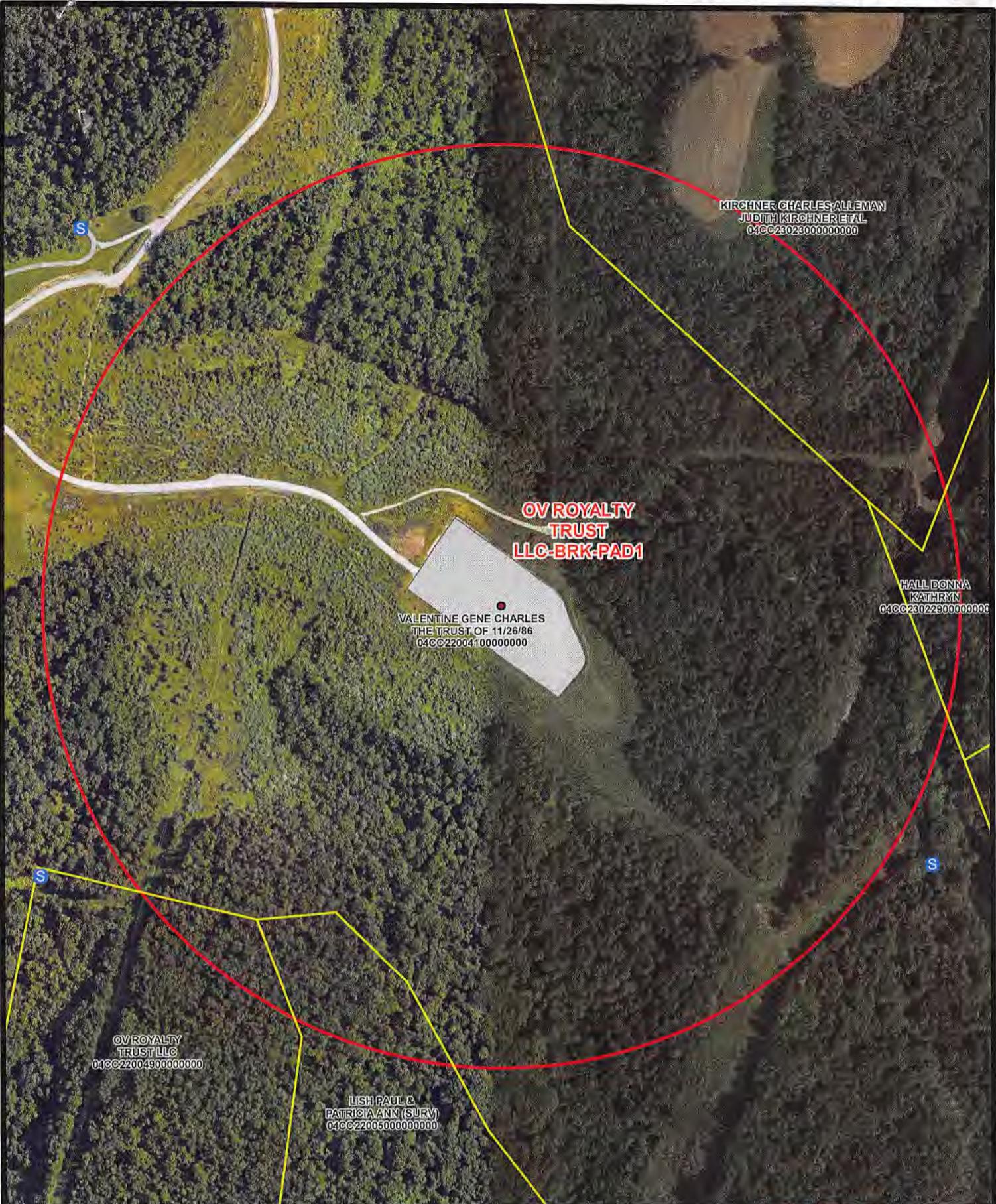
Approved by:

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

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

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

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S Spring    □ Parcel  
 W Water Well    □ 1500' Buffer  
 ● Pond

**Coordinates: 40.285451, -80.58024**

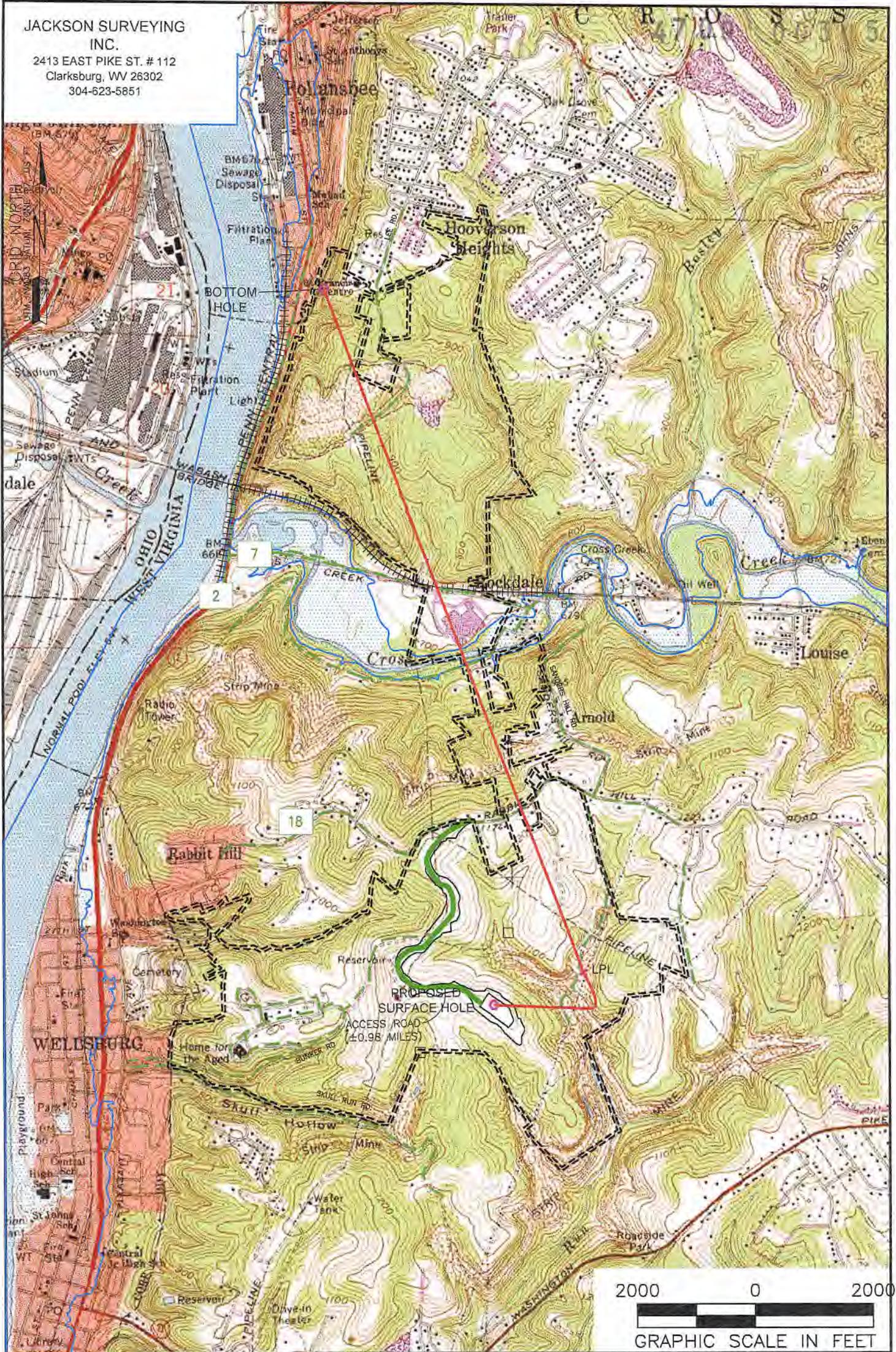
Water Purveyor Map  
 Well Pad: OV ROYALTY TRUST LLC  
 County: BRK

**swn**  $\frac{R^2}{A} \rightarrow V^+$   
 Southwestern Energy®

Date: 10/9/2019    Author: willisb

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 WV Department of  
 Environmental Protection

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



**NOTES ON SURVEY**

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

**LEGEND:**

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- ⊙ EXISTING / PRODUCING WELLHEAD
- ✱ LPL
- FLOOD PLAIN
- ACCESS ROAD
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- = LEASE BOUNDARY
- PROPOSED PATH

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: OV ROYALTY TRUST LLC BRK	WELL # 205H	SERIAL #
ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 MORGANTOWN, WV 26508	COUNTY - CODE BROOKE - 009	DISTRICT; CROSS CREEK	
SURFACE OWNER: THE GENE CHARLES VALENTINE TRUST DATED 11/26/86	USGS 7 1/2 QUADRANGLE MAP NAME STUEBENVILLE, WV		

Latitude: 40°17'30" N

SURFACE HOLE 242'

JACKSON SURVEYING INC.

2413 EAST PIKE ST. # 112  
Clarksburg, WV 26302  
304-623-5651

Latitude: 40°20'00" N BOTTOM HOLE

3036'

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	S 57°34'11" W	1489.47'	SHL TO LANDMARK	FD. 1" IRON PIN
L2	N 11°26'25" E	1240.97'	SHL TO LANDMARK	FOUND STONE
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	N 70°00'53" E	1619.28'	2,351.70'	SHL TO LPL

SURFACE HOLE LOCATION (SHL):

UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,459,548.393  
EASTING: 535,344.094

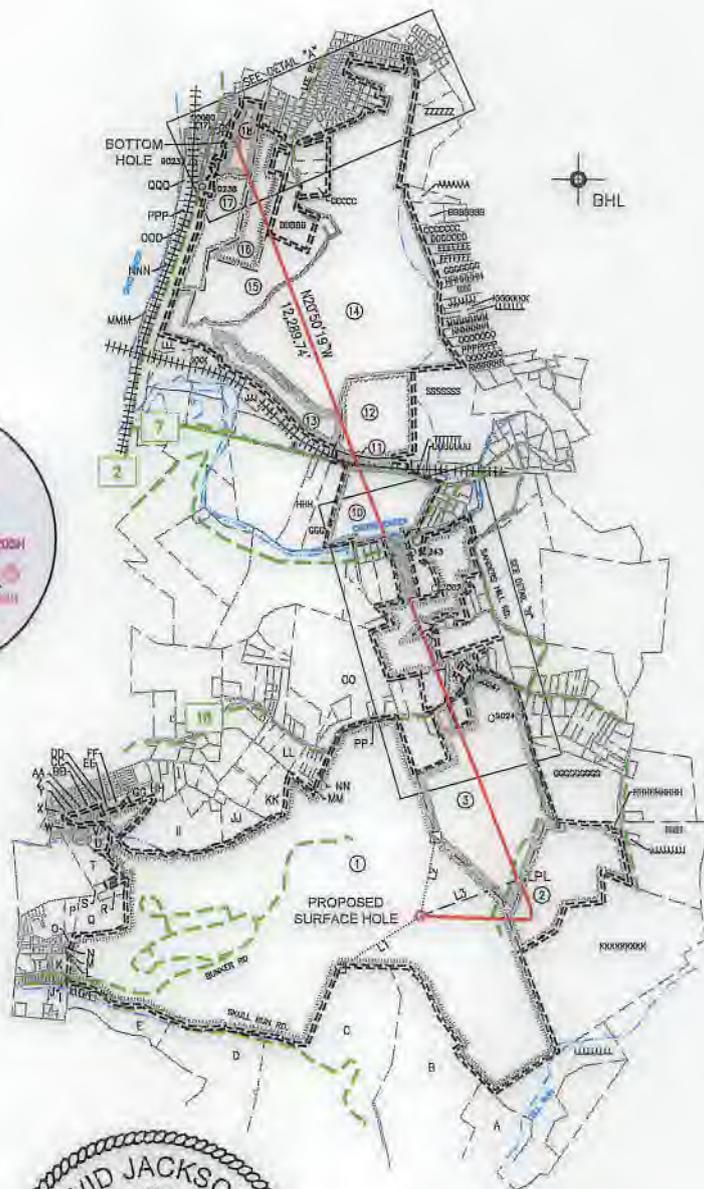
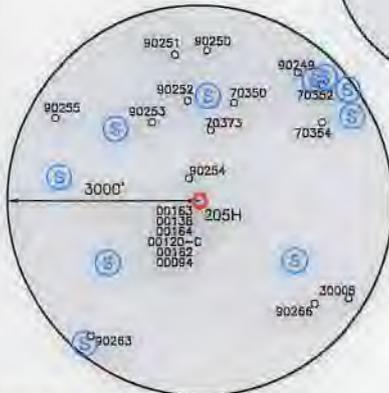
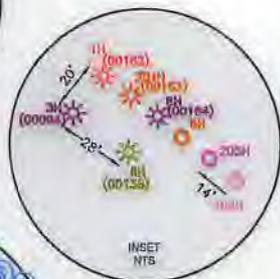
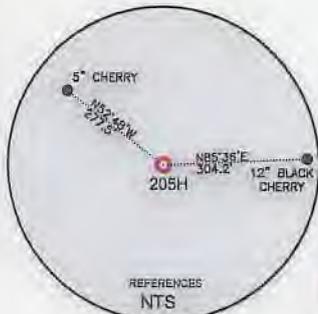
LANDING POINT LOCATION (LPL):

UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,459,717.082  
EASTING: 535,807.931

BOTTOM HOLE LOCATION (BHL):

UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,463,217.967  
EASTING: 534,475.370

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



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

WELL RESTRICTIONS

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

NOTES ON SURVEY

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

P.S. 708

David L Jackson



COMPANY: SWN Production Company, LLC



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
WVDEP  
OFFICE OF OIL & GAS  
601 57TH STREET  
CHARLESTON, WV 25034

MINIMUM DEGREE OF ACCURACY: 1/200  
PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)

OV ROYALTY TRUST LLC BRK  
OPERATOR'S WELL #: 205H  
API WELL #: 47 009 00385  
STATE COUNTY PERMIT

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: 5,783' TVD 18,792' TMD

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

LEGEND:	REVISIONS:	DATE:
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	— SURVEYED BOUNDARY	01-09-2020
✱ EXISTING / PRODUCING WELLHEAD	— DRILLING UNIT	
LPL ✱ LANDING POINT LOCATION	== LEASE BOUNDARY	
⊕ EXISTING WATER WELL	— PROPOSED PATH	
⊙ EXISTING SPRING	AZL ✱ AZIMUTH POINT LOCATION	
		DRAWN BY: N. MANO
		SCALE: 1" = 3000'
		DRAWING NO:
		WELL LOCATION PLAT



9-00305

**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	DONNA KATHRYN HALL	4-CC23-229
3	CHARLES KIRCHNER & JUDITH KIRCHNER ALLEMAN, ET AL	4-CC23-230
4	CAROLYN F. FREEMAN & LAWRENCE FREEMAN	4-CC23-232
5	FLOYD E. TAYLOR SR. & RHONDA C. TAYLOR	4-CC23-4
6	JAMES HARWELL DODD JR.	4-CC23-1
7	DANIEL MCGOWAN & MARJORIE G. MCGOWAN	4-CC19-6
8	JASON CARBASHO	4-CC18-54
9	JAMES D. BUCHWACH	4-CC18-43
10	BOARD OF EDUCATION	4-CC18-33
11	NORFOLK & WESTERN RAILWAY CO.	4-C19K-18
12	BOFFO FAMILY LIMITED PARTNERSHIP	4-CC18-32
13	BOARD OF EDUCATION	4-CC18-31
14	BOFFO FAMILY LIMITED PARTNERSHIP	4-CC18-7
15	BOFFO FAMILY LIMITED PARTNERSHIP	4-CC18-5
16	BISHOP OF CATHOLIC DIOCESE WHEELING/CHARLESTON	4-CC18-2
17	ILONA POGGI	4-CC18-14
18	ILONA POGGI	4-CC18-1

ADJOINING OWNERS TABLE			ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL	TRACT	SURFACE OWNER	TAX PARCEL
A	JOHN W. & NANCY TRAUBERT	04-CC23-234	VV	JAMES DODD, JEANNE MCGILL & ROBIN GEORGE	04-CC18-53
B	PAUL LISH & PATRICIA ANN LISH	04-CC22-50	WW	JAMES DODD, JEANNE MCGILL & ROBIN GEORGE	04-CC18-52
C	OV ROYALTY TRUST LLC	04-CC22-49	XX	JAMES D. BUCHWACH	04-CC18-50
D	RONALD CONAWAY, DONALD CONAWAY & PATRICIA CONAWAY	04-CC22-47	YY	JAMES D. BUCHWACH	04-CC18-51
E	SAMUEL J. & MELANIE A. DONINI	04-CC22-45	ZZ	JEAN SHIRLEY DOUBLES	04-CC18-44
F	LOUIS M. & TINA L. MCGOWAN	04-CC22-44	AAA	ROBIN HIMMELRICK (LE ELLA MAE HAYMEN)	04-CC18-45
G	TINA L. MCGOWAN	04-CC22-43	BBB	GEORGE HENTHORN	04-CC18-46
H	MICHAEL E. FRIEND	04-CC22-42	CCC	ROBIN HIMMELRICK (LE ELLA MAE HAYMEN)	04-CC18-47
I	JOHN C. BOBER III & JENNIFER R. BOBER	07-W22L-18	DDD	JAMES DODD, ROBIN GEORGE, & JEANNIE MCGILL	04-CC18-48
J	UNKNOWN	07-W22L-17	EEE	JAMES DODD, ROBIN GEORGE, & JEANNIE MCGILL	04-CC18-49
K	RICHARD L. FRYER	07-W22L-11	FFF	THOMAS M. BOYD, RICHARD A. BOYD, DAVID S. BOYD, TRUSTEES IN TRUST OF THOMAS J. BOYD	04-CC18-57
L	CHRISTINE L. ICE	07-W22L-8	GGG	BOARD OF EDUCATION	04-CC18-34
M	CHRISTINE L. ICE	07-W22L-9	HHH	BOARD OF EDUCATION	04-CC18-35
N	CHRISTINE L. ICE	07-W22L-10	III	BOARD OF EDUCATION	04-CC18-37
O	LARRY N. CLEMONS & SANDRA K. CLEMONS	07-W22L-4	JJJ	NORFOLK & WESTERN RAILWAY CO.	04-C19K-18
P	UNKNOWN	07-W22L-5	KKK	NORFOLK & WESTERN RAILWAY CO.	04-CC18-28
Q	WILLIAM RIGGS	04-C22G-82	LLL	PITTSBURGH & WVA RAILWAY CO.	04-CC18-27
R	ROBERT J. ZAMPINI	04-C22G-81	MMM	PITTSBURGH & WVA RAILWAY CO.	04-CC18-21
S	ROBERT J. ZAMPINI	04-C22G-80	NNN	BELLAIRE HARBOR SERVICES LLC (LE REBECCA JOHNSON)	04-CC18-20
T	T.H. CALDWELL HEIRS	04-C22G-79	OOO	BELLAIRE HARBOR SERVICES LLC (LE REBECCA JOHNSON)	04-CC18-19
U	JACKIE RAY COLLEY & ROBERTA G. COLLEY	04-C22G-64	PPP	BELLAIRE HARBOR SERVICES LLC (LE REBECCA JOHNSON)	04-CC18-18
V	JACKIE COLLEY & ROBERTA G. COLLEY	04-C22G-63	QQQ	BELLAIRE HARBOR SERVICES LLC (LE REBECCA JOHNSON)	05-F18C-4
W	FRANKLIN FRAGALE	07-W22G-7	RRR	BELLAIRE HARBOR SERVICES LLC (LE REBECCA JOHNSON)	04-CC18-17
X	JOHN WHITE, ROBERT WHITE, SHARON FREY, LE KATHRYN WHITE, RALPH WHITE, JEFFERY WHITE	07-W22G-5	SSS	DANIEL PATRICK LOMBARDI	04-CC18-16
Y	JOHN WHITE, ROBERT WHITE, SHARON FREY, LE KATHRYN WHITE, RALPH WHITE, JEFFERY WHITE	04-C22G-8	TTT	DANIEL P. LOMBARDI	04-CC18-15
Z	DAVID R. ROTHWELL & WYNONNA ROTHWELL	04-C22G-19	UUU	DANIEL A. KLINE	05-F18C-39
AA	DAVID ROGER ROTHWELL C/O JOHN BASSETT	04-C22G-20	VVV	RANDY M. MCCALLISTER JR.	05-F18C-38
BB	JUDITH L. FOWLER	04-C22G-31	WWW	MATT C. SECRIST & KYLEE D. SECRIST	05-F18C-37
CC	VIRGINIA PRICE	04-C22G-33	XXX	DENISE A. MOSSER	05-F18C-36
DD	GEORGE ENNIS	04-C22G-44	YYY	PAUL BONIEY JR. & DARLENE JOY BONIEY	05-F18C-35
EE	GEORGE F. ENNIS	04-C22G-45	ZZZ	PAUL BONIEY JR.	05-F18C-34
FF	EARL W. MILLER JR.	04-C22G-46	AAAA	PAUL BONIEY JR. & DARLENE JOY BONIEY	05-F18C-33
GG	MARK KOSCEVIC	04-C22G-32	BBBB	CHARLES B. VANDERBUSH & BETTY H. VANDERBUSH	05-F18C-28
HH	TERRY L. SMITH & LORA J. SMITH	04-C22C-122	CCCC	LEANN TRICKETT	05-F18C-27
II	FRANK CARUSO & LISA C. CARUSO	04-C22G-60	DDDD	LAND OF OZ	05-F18C-32
JJ	CHARLES R. BOGGS	04-C22G-57	EEEE	LARRY F. JONES	05-F18C-31
KK	CHARLES ISINGHOOD SR.	04-CC22-32	FFFF	THOMAS N. EMLER	05-F18C-30
LL	JIMMIE D. GEORGE & ROBIN J. GEORGE	04-CC22-31	GGGG	BULLEE PROPERTIES, LLC	05-F18C-29
MM	DALE E. ADAMS & MARY K. ADAMS	04-CC22-30	HHHH	JAMES E. JORDAN & CHERYL L. JORDAN	05-F14S-144
NN	STEVEN P. DIPASQUALE & MARCY DIPASQUALE	04-CC22-26	IIIII	JAMES E. JORDAN & CHERYL L. JORDAN	05-F14S-143
OO	DONALD C. TAYLOR JR. & JOAN WILLIAMS ET AL	04-CC22-20	JJJJ	JOSEPH CARUSO & CANDIDA CARUSO	05-F14S-142
PP	ERIN N. SNODGRASS	04-CC22-21	KKKK	EVA M. YOST	05-F14S-140
QQ	RON MICHAUX ET AL (LC JASON & DEANNA GALLOWAY)	04-CC22-22	LLLL	PATRICIA ROSCOE	05-F14S-26
RR	CAROLYN F. FREEMAN	04-CC22-25	MMMM	RACHAEL WEEKLEY, ET AL	05-F14S-25
SS	CAROLYN F. KIRCHNER	04-CC23-233	NNNN	DOROTHY CRAIG & JAMIE HAROLD	05-F14S-24
TT	JAMES HARWELL DODD & LYNN I. DODD	04-CC22-24	OOOO	DANIEL JOHN TACOZZA II, NUNCIA TACOZZA SPERLAZZA	05-F14S-23
UU	DONNA MARIE PRICE	04-CC22-23	PPPP	THE BUSINESS DEVELOPMENT CORPORATION OF THE NORTHERN PANHANDLE	05-F14S-27
			QQQQ	RICHARD T. HARDESTY JR & KIMBERLY A. HARDESTY	04-C14S-224

REVISIONS:	COMPANY:				
	OPERATOR'S			DATE: 01-09-2020	
	WELL #: 47-009-00305 205H			DRAWN BY: N. MANO	
	DISTRICT:	COUNTY:	STATE:	SCALE: N/A	
	CROSS CREEK	BROOKE	WV	DRAWING NO:	
				WELL LOCATION PLAT 4	

9-00305

**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
RRRR	RICHARD T. HARDESTY JR.	04-C14S-31	DDDDDD	VERA HUNT BOFFO	04-C19A-137
SSSS	GEORGE KOKOS	04-C14S-32	EEEEEE	JADE M. WEEKS & CHRISTOPHER D. WEEKS	04-C19A-138
TTTT	GEORGE C. KOKOS	04-C14S-33	FFFFFF	BARBARA GEARY	04-C19A-146
UUUU	MARK D. DESIMONE & PENNY J. DESIMONE	04-C14S-34	GGGGGG	JAMES H. JONES JR., KEVIN JONES, CORDER JONES, DIANNA L. JONES	04-C19E-4
VVVV	GEORGE KOKOS	04-C14S-35	HHHHHH	CHRISTINE BEARD & GERARD V. BEARD JR.	04-C19E-5
WWWW	MICHAEL J. BINE	04-C14S-48	IIIIII	DARRELL HENLINE & DONNA HENLINE	04-C19E-6
XXXX	MARK A. TENNANT & CHARITY C. TENNANT	04-C14S-49	JJJJJJ	REBECCA S. BELL & THOMAS C. BELL	04-C19E-7
YYYY	COLUMBIA GAS	04-CC18-3	KKKKKK	REBECCA S. BELL & THOMAS C. BELL	04-C19E-9
ZZZZ	CITY OF FOLLANSBEE	04-CC18-4	LLLLLL	DONALD P. MCABEE & DENA D. MCABEE	04-C19E-10
AAAA	BOFFO FAMILY LIMITED PARTNERSHIP	04-CC18-7	MMMMMM	JEFFERY LOUIS FODOR & DREMA DAWN FODOR	04-C19E-12
BBBB	JAC-FRED WV, LLC.	04-CC18-6	NNNNNN	JOSHUA A. HOOKER, JOSEPH C. HOOKER, LE BETH HOOKER	04-C19E-14
CCCC	LG-OHI FOLLANSBEE, LLC	04-CC18-9	OOOOOO	RALPH W. ROWLAND & WILDA K. ROWLAND	04-C19E-17
DDDD	LG-OHI FOLLANSBEE, LLC	04-CC18-10	PPPPPP	VIRGINIA HADDON	04-C19E-19
EEEE	JAC-FRED WV LLC A NORTH CAROLINA LLC	04-CC18-11	QQQQQQ	DONALD K. NORCROSS, LAURA R. NORCROSS BARNES	04-C19E-24
FFFF	KENT ORBAN	04-CC18-12	RRRRRR	JACKIE L. FRITZ & KEVIN M. FRITZ	04-C19E-27
GGGG	BURL R. WILLIAMS JR.	04-C14S-218	SSSSSS	BOARD OF EDUCATION	04-CC19-38
HHHH	MICHAEL EICHNER & LINDA S. EICHNER	04-C14S-74	TTTTTT	BROOKE COUNTY COMMISSION	04-CC19-193
IIII	MICHAEL EICHNER & LINDA S. EICHNER	04-C14S-75	UUUUUU	BOARD OF EDUCATION	04-CC19-38.1
JJJJ	CARL FREDERICK BOFFO	04-C14S-76	VVVVVV	JAMES BURNS & RANDY COLLINS	04-CC19-14
KKKK	TERRY L. FRANKENFIELD & CHERYL L. FRANKENFIELD	04-C14S-77	WWWWWW	CLARENCE T. BLACK JR. & TAMMY L. BLACK	04-CC19-36
LLLL	STEPHEN PRITCHARD & BARBARA PRITCHARD	04-C14S-78	XXXXXXXX	CLARENCE T. BLACK, JR. & TAMMY L. BLACK	04-CC19-35
MMMM	DAVID W. BARNHART & PAMELA A. BARNHART	04-C14S-79	YYYYYY	RANDY KOWALCZYK & LINDA LOUSIE KOWALCZYK	04-CC19-34
NNNN	RAYMOND H. MCCOY JR. & CYNTHIA S. MCCOY	04-C14S-80	ZZZZZZ	RANDY KOWALCZYK & LINDA LOUSIE KOWALCZYK	04-CC19-33
OOOO	RICHARD C. DEARTH & STACEY A. DEARTH	04-C14S-81.1	AAAAAAAA	RANDY KOWALCZYK & LINDA LOUSIE KOWALCZYK	04-CC19-32
PPPP	BRIAN BEATTY	04-C14S-81.2	BBBBBB	TERRY R. JOHNSON & BETH ANN JOHNSON	04-CC19-28
QQQQ	BRIAN L. BEATTY	04-C14S-219	CCCCCC	RICHARD E. RYAN & CAROLYN G. RYAN	04-CC19-27
RRRR	BRIAN L. BEATTY	04-C14S-226	DDDDDD	TRAVIS JAMES MCALEER & KAREN A. PIEHS	04-CC19-26
SSSS	CHRISTOPHER O. RAY & KAREN L. RAY	04-C14S-225	EEEEEE	PHYLLIS MARKER	04-CC18-41
TTTT	JUSTIN L. SCHWERTFERGER & PAULA SCHWERTFERGER	04-C14S-222	FFFFFF	JOHN P. HOSLER & GERALDINE HOSLER	04-CC18-42
UUUU	JUSTIN L. SCHWERTFERGER & PAULA SCHWERTFERGER	04-C14S-81.4	GGGGGG	CAMPBELL SHELDON PALIZZI	04-CC19-25
VVVV	MICHAEL P. ROKSANDICH & KELLY J. ROKSANDICH	04-C14S-81.3	HHHHHH	CAMPBELL SHELDON PALIZZI	04-CC19-24
WWWW	GARY L. WILLIAMS & SHARON J. WILLIAMS	04-C14S-84	IIIIII	CAMPBELL SHELDON PALIZZI	04-CC19-23
XXXX	AARON BURCH	04-C14S-97	JJJJJJ	FRANKLIN M. AFTANAS JR. & DEBRA D. AFTANAS	04-CC19-22
YYYY	BONNIE S. SHAW	04-C14S-88	KKKKKK	FRANKLIN M. AFTANAS JR. & DEBRA D. AFTANAS	04-CC19-20
ZZZZ	CARL FREDERICK BOFFO	04-C14S-128	LLLLLL	MARTIN J. BARTZ JR.	04-CC19-18
AAAA	JAC-FRED WV, LLC.	04-C14S-129	MMMMMM	DENNIS K. YOST DBA KEITH YOST EXCAVATING	04-CC19-5
BBBB	JAC-FRED WV, LLC.	04-C14S-130	NNNNNN	ROGER L. JONES & JULIA ANN JONES	04-CC19-2
CCCC	JAC-FRED WV, LLC.	04-C14S-131	OOOOOO	CHARLES A. HOGGARD	04-CC19-7
DDDD	LAURA M. FRIEND	04-C14S-132	PPPPPP	FRANK E. SMITH, DORTHA JEAN SMITH & JEFF E. SMITH ET AL	04-CC19-9
EEEE	ROSALIND FRIEND	04-C14S-153	QQQQQQ	FRANK E. SMITH, DORTHA JEAN SMITH & JEFF E. SMITH ET AL	04-CC19-10
FFFF	JAMES R. BINGEL SR.	04-C14S-152	RRRRRR	JAMES DODD, JEANNIE MCGILL & ROBIN GEORGE	04-CC19-13
GGGG	RAY L. ADAMS & LISA M. ADAMS	04-C14S-133	SSSSSS	BOARD OF EDUCATION	04-CC19-11
HHHH	RONALD C. PENROD & JUDITH A. PENROD	04-C14S-134	TTTTTT	MONONGAHELA POWER CO.	04-CC19-12
IIII	CHARLES LOPEZ & AURORA LOPEZ	04-C14S-135	UUUUUU	DANIEL E. MCGOWEN & MARJARIE G. MCGOWEN	04-CC23-12
JJJJ	SHIRLEY M. KIRTLEY	04-C14S-136	VVVVVV	DONALD R. HALL & BEVERLY J. HALL	04-CC23-9
KKKK	MEGAN E. PINTUS	04-C14S-137	WWWWWW	DONALD R. HALL & BEVERLY J. HALL	04-CC23-8
LLLL	TIFFANY WILLIAMS	04-C14S-138	XXXXXXXX	DONALD R. HALL & BEVERLY J. HALL	04-CC23-7
MMMM	BRIAN L. SMITH & DAWN E. SMITH	04-C14S-139	YYYYYY	FLOYD EUGENE TAYLOR & RHONDA C. TAYLOR	04-CC23-6
NNNN	JOHN M. KUZMA & PATRICIA A. KUZMA	04-C14S-140	ZZZZZZ	FLOYD EUGENE TAYLOR & RHONDA C. TAYLOR	04-CC23-5
OOOO	ELMER SANDRETH JR. & REBECCA SANDRETH	04-C14S-141	AAAAAAAA	SHAWN CALDWELL	04-CC23-3
PPPP	THOMAS E. BOREMAN & SHARON BOREMAN	04-C14S-142	BBBBBB	DORIS J. KIRCHNER	04-CC23-231
QQQQ	THOMAS E. BOREMAN & SHARON BOREMAN	04-C14S-223	CCCCCC	ROBERT EVAN MOZINGO, HERBERT MOZINGO, JEFFERY MOZINGO & CHRISTINE STEIN	04-CC23-11
RRRR	GARY W. POWELL	04-C14S-143	DDDDDD	HENRY CUNNINGHAM	04-CC23-225
SSSS	HAROLD WAUGH & SHIRLEY WAUGH	04-C14S-174	EEEEEE	HENRY CUNNINGHAM	04-CC23-226.1
TTTT	HAROLD WAUGH & SHIRLEY WAUGH	04-C14S-175	FFFFFF	ROD E. PATTISON & CYNTHIA A. PATTISON	04-CC23-227
UUUU	HAROLD WAUGH & SHIRLEY WAUGH	04-C14S-176	GGGGGG	RANDALL P. DOLL & KIMBERLY JO DOLL	04-CC23-204
VVVV	CITY OF FOLLANSBEE	04-C14S-177	HHHHHH	LARRY J. GRAY & BARBARA S. GRAY	04-CC23-228
WWWW	TERESA CIGNINI	04-C15N-58	IIIIII	ARTHUR J. FRIEND (LE NORMA JEAN FRIEND)	04-CC23-202
XXXX	NORMA B. TRAUBERT, ET AL	04-C15N-77	JJJJJJ	HERBERT S. RIGGS & WANDA JO RIGGS	04-CC23-201
YYYY	SHERI A. STIFT	04-C15N-87	KKKKKK	JAMES LUNSFORD	04-CC23-203
ZZZZ	DEAN RICHARDSON & SHARON RICHARDSON	04-C19A-10	LLLLLL	SCHIAPPA & COMPANY, INC.	04-CC28-2
AAAA	ANGELA FORD	04-C19A-106			
BBBB	WILLIAM D. SECRIST JR.	04-C19A-116.1			
CCCC	RICK SNYDER & ESTHER SNYDER	04-C19A-117			

REVISIONS:	COMPANY:	 	
	OPERATOR'S	OV ROYALTY TRUST LLC BRK	DATE: 01-09-2020
	WELL #:	47-009-00305 205H	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 205H

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

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

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

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

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 Brainerd  
 Its: Landman

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11)	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	✓
12)	04-CC18-0032-0000	The Boffo Family Limited Partnership, a West Virginia Limited Partnership	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	17.00%	12/82 30/480	✓
13)	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	✓
14)	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	✓
15)	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	✓
16)	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	✓
17)	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	✓
18)	04-CC18-0001-0000	Vespy Poggi and Ilona Poggi, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	11/616 30/480	✓

47 009 00305



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

December 23, 2019

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

**RE:** SWN's proposed New Well: OV Royalty Trust LLC BRK 205H 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,

A handwritten signature in blue ink that reads "Bailey Brougher".

Bailey Brougher  
Landman – SW Appalachia  
SWN Production Company, LLC

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Environmental Protection

A logo consisting of the letters "R" and "A" stacked vertically, with a red arrow pointing from the "R" to the "A", and a red plus sign to the right of the "A".

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: 1/13/20

API No. 47- 009 -  
Operator's Well No. OV Royalty Trust LLC BRK 205H  
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>535,344.094</u>
County: <u>009- Brooke</u>		Northing: <u>4,459,548.393</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.

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

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Environmental Protection

**Required Attachments:**

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

**Certification of Notice is hereby given:**

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

Well Operator:	<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 17<sup>th</sup> 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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

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WV Department of  
Environmental Protection

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

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

Date of Notice: 11/3/20 Date Permit Application Filed: 11/3/20

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: \_\_\_\_\_

COAL OWNER OR LESSEE  
Name: OV Royalty Trust LLC  
Address: PO Box 31  
Wellsburg, WV 26070

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

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

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)  
Name: None  
Address: \_\_\_\_\_

SURFACE OWNER(s) (Impoundments or Pits)  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

OPERATOR OF ANY NATURAL GAS STORAGE FIELD  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

\*Please attach additional forms if necessary

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**Notice is hereby given:**

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

**This Notice Shall Include:**

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

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

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

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

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

**Well Location Restrictions**

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

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

**Water Well Testing:**

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

**Water Testing Laboratories:**

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

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

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

**Written Comment:**

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

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

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

**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  
AUG 16 2020  
WV Department of  
Environmental Protection

WW-6A  
(8-13)

API NO. 47- 005  
OPERATOR WELL NO. OV Royalty Trust LLC BRK 2  
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](mailto:deprivacyofficer@wv.gov).



Subscribed and sworn before me this 17<sup>th</sup> day of Oct, 2019.

Jessica L. Vangilder Notary Public

My Commission Expires 7-20-20

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Office of Oil and Gas  
AN 14 2020  
WV Department of  
Environmental Protection

WW-6A3  
(1/12)

C

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

RECEIVED  
Office of Oil and Gas  
JAN 14 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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Notice is hereby given by:

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

Oil and Gas Privacy Notice:

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

WW-6A3  
(1/12)

Operator Well No. OV Royalty Trust LLC BRK

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
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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>40.265455, -80.583597</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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

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

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

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NOV 4 2019

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](mailto:depprivacyofficer@wv.gov).

WW-6A3  
(1/12)

Operator Well No. OV Royalty Trust LLC BRK

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

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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

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Office of Oil and Gas

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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

AN 14 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

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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: Jan Chamberlain  
 Address: 2915 Glenwood Ave  
Moundsville, WV 26041  
 \*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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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

JAN 14 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](mailto: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: Deborah C. Collins  
 Address: 16355 Log Cabin Road  
Alhens, WV 15611

\*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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Notice is hereby given by:

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

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

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**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
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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

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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: 304-884-1630

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JAN 14 2020

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 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

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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: 304-884-1810  
 Email: Brittany\_Woody@swn.com

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

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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

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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

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 \_\_\_\_\_  
 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

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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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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

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

COAL OWNER OR LESSEE  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_

MINERAL OWNER(S)  
Name: Randal J. Lauck  
Address: 3766 Delano Drive  
Eaton Rapids, MI 48827  
\*please attach additional forms if necessary

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Facsimile: 304-884-1690

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SEP 14 2019

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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**

- 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: Alfred C. Leist  
 Address: 3366 Edgewood Drive  
Wooster, OH 44691  
 \*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>Staubenville 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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

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

Address: 1300 Fort Pierpont Dr., Suite 201  
Morgantown, WV 26506  
 Facsimile: 304-884-1690

RECEIVED  
Office of Oil and Gas

NOV 14 2019

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

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

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

COAL OWNER OR LESSEE

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

MINERAL OWNER(s)

Name: Frederic Scott Makera  
Address: 1529 Round Bottom Hill Road  
Moundsville, WV 26041

\*please attach additional forms if necessary

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

COAL OWNER OR LESSEE  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 \_\_\_\_\_

MINERAL OWNER(s)  
 Name: George Michael Makara  
 Address: 36 Fuller Road  
Moundsville, WV 26041  
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Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_

COAL OWNER OR LESSEE  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_

MINERAL OWNER(S)  
Name: Cynthia McCloskey  
Address: 3210 West Bullford Ave  
Greenfield, WI 53221  
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\_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_

COAL OWNER OR LESSEE

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

MINERAL OWNER(s)

Name: Gamet Midcap  
Address: 4019 Fish Creek Road  
Proctor, WV 26055  
\*please attach additional forms if necessary

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

COAL OWNER OR LESSEE

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

MINERAL OWNER(s)

Name: Grace M. Midcap  
Address: 11321 Cedar Springs Road  
Blakely, GA 39823  
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\_\_\_\_\_

COAL OWNER OR LESSEE

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

MINERAL OWNER(s)

Name: Jerry Wayne Midcap  
Address: PSC 473 Box 8  
FPO AP, 96349

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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: Paul Alan Midcap  
 Address: 115 Karen Drive  
Washington, PA 15301  
 \*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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Notice is hereby given by:

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

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

RECEIVED  
Office of Oil and Gas

AN 11 2019

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 of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
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 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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NOV 4 2019

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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

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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

**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

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

**Notice is hereby given by:**

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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

RECEIVED  
Office of Oil and Gas

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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

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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Office of Oil and Gas

JAN 14 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: Aaron Wheeler  
Address: 4726 S Airport Road, Apt. C  
Ray, UT 84067

\*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>40.265455, -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: 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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JAN 14 2020

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WV DEPARTMENT OF  
Environmental Protection

WW-6A3  
(1/12)

Operator Well No. OV Royalty Trust LLC BRK

**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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 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: Douglas Wheeler  
Address: 2211 Calvin Drive  
Bellevue, NE 68123  
\*please attach additional forms if necessary

**Notice is hereby given:**

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Facsimile: 304-884-1690

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WV Department of  
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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

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

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- 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: Emmett Wheeler  
Address: 31518 Plank Lane  
DeLand, FL 32720  
\*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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Notice is hereby given by:

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

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

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Office of Oil and Gas

AN 1 4 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](mailto: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: Shannon Wheeler  
Address: 15349 SE 182nd Ave  
Umatilla, FL 32784  
\*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

RECEIVED  
Office of Oil and Gas

SEP 30 2019

WV Department of  
Environmental Protection

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

\*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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

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Well Operator: SWN PRODUCTION COMPANY, LLC  
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Email: Brittany\_Woody@swn.com

Address: 1300 Fort Pierpont Dr., Suite 201  
Morgantown, WV 26508  
Facsimile: 304-884-1699

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Office of Oil and Gas

NOV 13 2020

www.dep.wv.gov  
Department of Environmental Protection

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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:** 10/17/2019 **Date Permit Application Filed:** 11/3/20

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

- CERTIFIED MAIL RETURN RECEIPT REQUESTED
- HAND DELIVERY

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

**Notice is hereby provided to the SURFACE OWNER(s)**  
(at the address listed in the records of the sheriff at the time of notice):

Name: Valentine Gene Charles The Trust of 11/26/86	Name: _____
Address: PO Box 31 Wellsburg, WV 26070	Address: _____

**Notice is hereby given:**

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

State: West Virginia	UTM NAD 83	Easting: 535,344.094
County: Brooke		Northing: 4,459,548.393
District: Cross Creek	Public Road Access: Rabbit Hill Road	
Quadrangle: Steubenville East	Generally used farm name: OV Royalty Trust, LLC	
Watershed: Painters Run of Buffalo Creek		

**This Notice Shall Include:**

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

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

**Oil and Gas Privacy Notice:**

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

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WV Department of  
Environmental Protection



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 57<sup>th</sup> Street, SE  
 Charleston, WV 25304

Subject: DOH Permit for the OV Royalty Trust LLC Pad, Brooke County

OV Royalty Trust LLC BRK 205H Well Site

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.

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 Office of Oil and Gas

AN 14 2020

WV Department of  
 Environmental Protection

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

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
Bactron K-219 (Champion Technologies)	Biocide	Methanol	64-17-5
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	67-56-1
CarboNRT	Tracer	Ceramic Proppant	68424-85-1
EC6486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate	66402-68-4
		Ethylene Glycol	Proprietary
EC6734A (Champion Technologies)	Biocide	Hydrogen Peroxide	107-21-1
		Acetic Acid	7722-84-1
		Peroxyacetic Acid	64-19-7
Econo-CI200 (SWN Well Services)	Corrosion Inhibitor	Methanol	79-21-0
		Oxyalkylated fatty acid	67-56-1
		Fatty acids	68951-67-7
		Modified thiourea polymer	61790-12-3
		Water	68527-49-1
		Hydrochloric acid	7732-18-5
		Potassium acetate	7647-01-0
Ecopol-FEAC (SWN Well Services)	Iron Control	Formaldehyde	127-08-2
		Acetic Acid	50-00-0
		Citric Acid	64-19-7
FDP-S1176-15 (Halliburton)	Friction Reducer	Water	77-92-9
		Polyacrylate	7732-18-5
FLOJET DR900 LPP (SWN Well Services)	Friction Reducer	Hydrotreated light petroleum distillate	Proprietary
		Distillates (petroleum) hydrotreated light	64742-47-8
		Ethylene Glycol	64674-47-8
		Alcohols, C12-16, Exoxylated propoxylated	107-21-1
FLOJET DRP 1130X (SWN Well Services)	Friction Reducer	Fatty Alcohols ethoxylated	68213-24-1
		Water	Proprietary
		Proprietary	7732-18-5
		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-propenamamide	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 propenamamide	9003-06-9

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 Office of Oil and Gas  
 JAN 14 2019  
 NWL  
 Environmental Protection  
 Division

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!!!



Know what's below.  
Call before you dig.

# OV ROYALTY TRUST LLC-BRK PAD #A

## AS-BUILT

WELL PAD/ACCESS ROAD  
BUFFALO DISTRICT, BROOKE COUNTY, WV  
JULY 2015

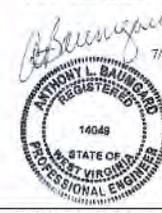
PLANS PREPARED BY:

### TRIPLE H ENTERPRISES

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

**WVDEP OOG  
ACCEPTED AS-BUILT**

*HHH* 7/28/2015



7/27/2015

ANTHONY BAUMGARD, P.E. NO. WV 14049

OWNER:



AS-BUILT CERTIFICATION:

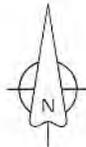
THE DRAWINGS, CONSTRUCTION NOTES, AND  
REFERENCE DIAGRAM(S) ATTACHED HERETO  
HAVE BEEN PREPARED IN ACCORDANCE WITH  
THE WEST VIRGINIA CODE OF STATE RULES,  
DIVISION OF ENVIRONMENTAL, OFFICE OF OIL  
AND GAS CRS-35-8

SHEET INDEX

1. TITLE SHEET
2. OVERALL PLAN
3. EVACUATION PLAN SHEET
4. EVACUATION PLAN SHEET
5. LOD MODIFICATION SHEET
6. AS-BUILT SITE OVERVIEW SHEET
7. AS-BUILT SITE OVERVIEW SHEET
8. AS-BUILT SITE OVERVIEW SHEET
9. AS-BUILT SITE OVERVIEW SHEET
10. AS-BUILT SITE OVERVIEW SHEET
11. AS-BUILT SITE OVERVIEW SHEET
12. AS-BUILT SITE OVERVIEW SHEET
13. AS-BUILT SITE OVERVIEW SHEET
14. ACCESS ROAD PROFILE SHEET
15. DETAIL SHEET

NOTES:

1. THE AS-BUILT INFORMATION SHOWN HEREON REFLECTS FIELD DATA COLLECTED RELATIVE TO THE FINAL GRADING OF THE DISTURBED AREA AS OF 7/27/2015. 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 BERM(S) TO THE WELL PAD SHALL HAVE THE MOUNTABLE BERM(S) REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS.



COORDINATES

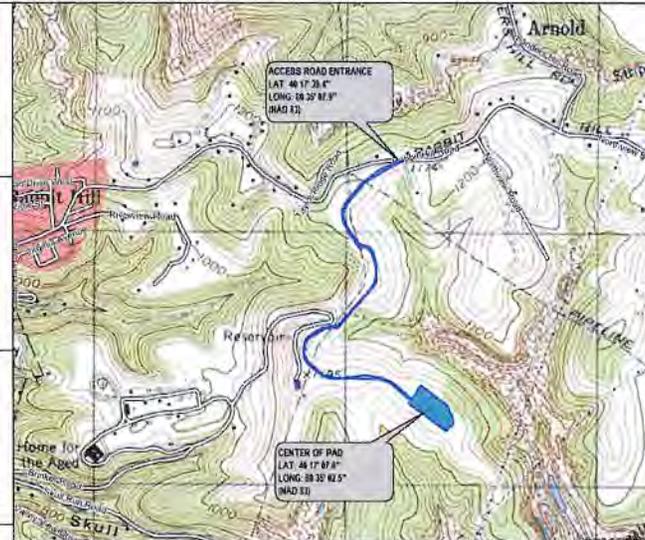
ACCESS ROAD ENTRANCE  
(NAD 83)  
LAT: 40° 17' 39.4"  
LONG: 80° 35' 07.9"

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

**Triple H** enterprises

DATE: 07/27/2015

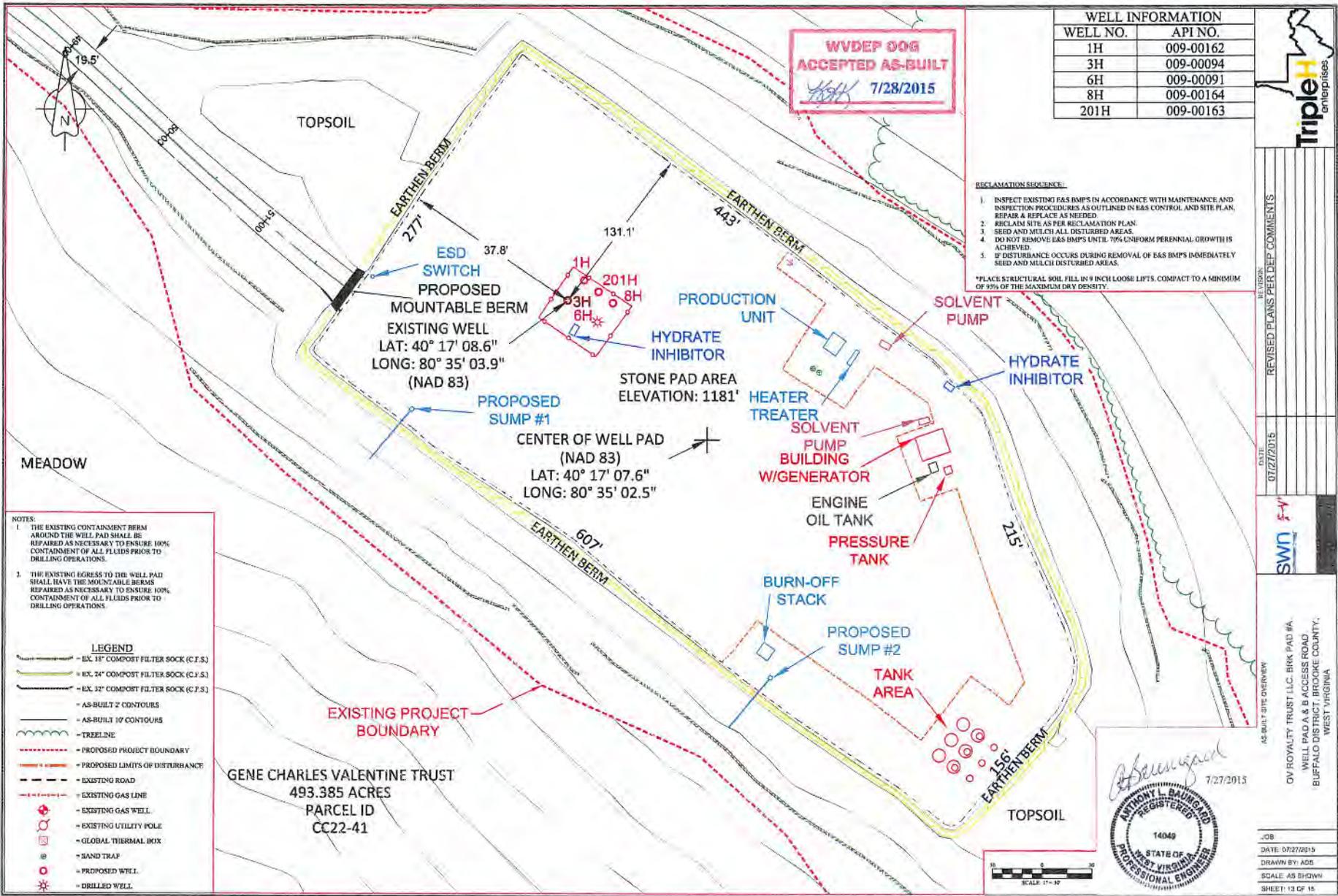
REVISIONS PER COMMENTS

DATE: 07/27/2015

COVER PLAN SHEET

O.V. ROYALTY LLC BRK PAD #A  
WELL PAD A & B ACCESS ROAD  
BUFFALO DISTRICT, BROOKE COUNTY,  
WEST VIRGINIA

JOB:  
DATE: 07/27/2015  
DRAWN BY: ACS  
SCALE: AS SHOWN  
SHEET: 1 OF 15



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

- RECLAMATION SEQUENCE:**
- INSPECT EXISTING EAS BMP'S IN ACCORDANCE WITH MAINTENANCE AND INSPECTION PROCEDURES AS OUTLINED IN EAS CONTROL AND SITE PLAN. REPAIR & REPLACE AS NEEDED.
  - RECLAIM SITE AS PER RECLAMATION PLAN.
  - SEED AND MULCH ALL DISTURBED AREAS.
  - DO NOT REMOVE EAS BMP'S UNTIL 75% UNIFORM PERENNIAL GROWTH IS ACHIEVED.
  - IF DISTURBANCE OCCURS DURING REMOVAL OF EAS BMP'S IMMEDIATELY SEED AND MULCH DISTURBED AREAS.
- \*PLACE STRUCTURAL SOIL FILL IN 9 INCH LOOSE LIFTS. COMPACT TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY.

- NOTES:**
- THE EXISTING CONTAINMENT BERM AROUND THE WELL PAD SHALL BE REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS.
  - 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
  - TREE LINE
  - PROPOSED PROJECT BOUNDARY
  - PROPOSED LIMITS OF DISTURBANCE
  - EXISTING ROAD
  - EXISTING GAS LINE
  - EXISTING GAS WELL
  - EXISTING UTILITY POLE
  - GLOBAL THERMAL BRIX
  - SAND TRAP
  - PROPOSED WELL
  - DRILLED WELL

**Triple H Enterprises**

DATE: 07/27/2015

REVISED PLANS PER DEP COMMENTS

AS BUILT SITE OVERVIEW

OW ROYALTY TRUST LLC, BKR PAD #A, WELL PAD A & B ACCESS ROAD, BUFFALO DISTRICT, BROOKS COUNTY, WEST VIRGINIA

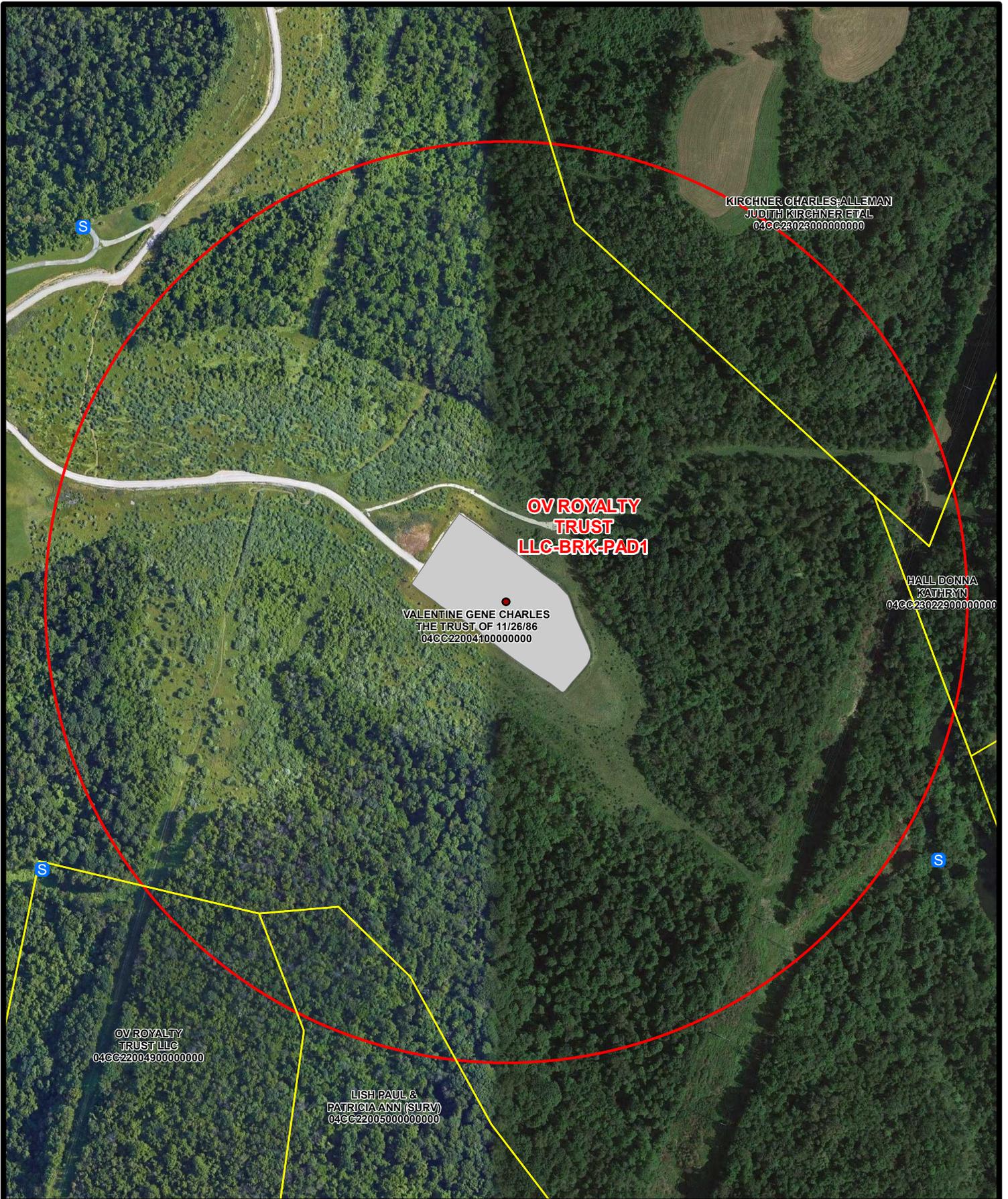
ANTHONY L. BAUMGARD, REGISTERED PROFESSIONAL ENGINEER, STATE OF WEST VIRGINIA, 14049

DATE: 07/27/2015

DRAWN BY: ACS

SCALE: AS SHOWN

SHEET: 13 OF 15



KIRCHNER CHARLES ALLEMAN  
 JUDITH KIRCHNER ETAL  
 04CG28024000000000

**OV ROYALTY  
 TRUST  
 LLC-BRK-PAD1**

VALENTINE GENE CHARLES  
 THE TRUST OF 11/26/86  
 04CG22004100000000

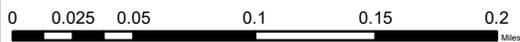
HALL DONNA  
 KATHRNM  
 04CG23022900000000

OV ROYALTY  
 TRUST LLC  
 04CG22004900000000

LISH PAUL &  
 PATRICIA ANN (SURV)  
 04CG22005000000000



1 in = 417 ft



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

- S Spring
- W Water Well
- Pond
- Parcel
- 1500' Buffer

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



**Coordinates: 40.285451, -80.58024**

Date: 10/9/2019 Author: willisb