

#### west virginia department of environmental protection

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

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

Monday, May 23, 2022 WELL WORK PERMIT Horizontal 6A / New Drill

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

Re: Permit approval for OCC-A OHI 401H 47-069-00342-00-00

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

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

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

Operator's Well Number:

OCC-A OHI 401H THE BOARD OF COMMISSION

Farm Name:

47-069-00342-00-00

U.S. WELL NUMBER: Horizontal 6A

New Drill Date Issued: 5/23/2022

Promoting a healthy environment.

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### 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. Pailure to adhere to the specified permit conditions may result in enforcement action.

#### CONDITIONS

- 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.
- 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.
- 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.

WW-6B (04/15) API NO. 47-008
OPERATOR WELL NO. OCC-A OHI 401H
Well Pad Name: OCC A OHI Pad

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

Nell Operator SWN Product	tion Co., LLC	494512924	069-Ohio	7-Triadel	648-Valley Groev
1) Well Operator: SWN Produc		Operator ID	County		<b>Pa</b> adrangle
2) Operator's Well Number: OCC	-A OHI 401H	Well F	ad Name: OCC	C A OHI Pac	
	ard of Commissioners Of	nio County Public R	oad Access: Ro	odneys Poin	Run
4) Flevation, current ground: 1	00E' F	levation propose	d post-construc	tion 1005'	
5) Well Type (a) Gas x	Oil	Uı	derground Stor	rage	
Other					
(b)If Gas Shall	ow X	Deep			
Horiz	rontal X	2/0	K 3/8/202	2	
6) Existing Pad: Yes or No Yes	200-1				
7) Proposed Target Formation(s),	Depth(s), Anti-	cipated Thicknes	s and Expected	Pressure(s):	Associated Pressure- 4059
Target Formation- Marcellus, Up-Dip well to t	he North, Target Top	TVD- 6178', Target Base	FVD- 6238 , Addisqua	ied : indanidas- or i	120000000000000000000000000000000000000
8) Proposed Total Vertical Depth.	6218'				
9) Formation at Total Vertical De	8 4 11	S			
10) Proposed Total Measured Dep	oth: 24892'				
11) Proposed Horizontal Leg Len	gth: 17365.8	9			RECEIVED Office of Oil and Gas
(2) Approximate Fresh Water Str	ata Depths:	393'			APR 2 0 2022
13) Method to Determine Fresh V		Deepest Nearb	y Water Well		
14) Approximate Saltwator Depth		ity Profile			WV Department of Environmental Protection
15) Approximate Coal Seam Dep					
16) Approximate Depth to Possib	le Void (coal n	nine, karst, other	): None that w	e are aware	of.
17) Does Proposed well location directly overlying or adjacent to a				No X	
(a) If Yes, provide Mine Info.	Nume.				
	Depth:				
	Seam:				
	Owner:				

WW-6B (04/15) API NO. 47- 009 - OPERATOR WELL NO. OCC-A OHI 401H
Well Pad Name: OCC A OHI 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	J-55	94#	126'	126'	CTS
Fresh Water	13 3/0"	New	11-40	48#	532'	532'	513 SZICTS
Coal	See	Surface	Casing				1
Intermediate	9 5/8"	New	J-55	36#	1900'	1900'	819 sx/CTS
Production	5 1/2"	New	P-110 HP	23#	24,892'	24,892'	Tail 4825xx/ 100 inside intermediate
Tubing							
Liners							

MAK 3/8/2022

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	30"	0.25	2120	81	Class A	1.20/30% Excess
Fresh Water	13 3/6"	17.5"	0.380	2730	633	Class A	1.20/30% Excess
Coal	See	Surface	Casing				
Intermediate	9 5/8"	12 1/4"	0.395	3950	1768	Class A	1.19/40% Excess
Production	5 1/2"	8 3/4"-8 1/2"	0.361	14360	10500	Class A	1.19/5% Excess
Tubing					-		
Liners							
	1						DECEMBER

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APR 2 0 2022

#### **PACKERS**

WV Department of Environmental Protection

Kind:		
Sizes:		
Depths Set:		

WW-6B (10/14) API NO. 47- 009 OPERATOR WELL NO. OCC-A OHI 401H
Well Pad Name: OCC A OHI Pad

19)	Describe proposed	well work.	including the	e drilling and	plugging back	of any pilot hole:
	Dogorioo proposea	TIOIS TIOSES	***********	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Property core.	torany prioring.

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

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

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

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 17.9
- 22) Area to be disturbed for well pad only, less access road (acres): 3.0
- 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:

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See Attachment \*\*\*

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#### 25) Proposed borehole conditioning procedures:

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

<sup>\*</sup>Note: Attach additional sheets as needed.

			CEMENT A	ADDITIVES		
INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Numbe
SURFACE (FRESHWATER)	><	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
up to 3%	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL PROTECTION	><	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
up to 3%	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
	D020	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D047	FP 28L	$\times$	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
INTERMEDIATE	> <	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	CemNet	> <	> <	LOST CIRC MATERIAL	COATED FIBERGLASS FIBERS	PROPRIETAR
	SUGAR	SUGAR	CJ795	CMT RETARDER	SUCROSE	57-50-1
	5001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
		><	CJ111	ACCELERATOR	SODIUM CHLORIDE	7440-23-5
	> <	SS-11W	CJ880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4
	D047	FP 28L	$\times$	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	2-122-69-4
	$\overline{}$	> <	CJX157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
		$\supset$	CJ540	HP FLUID LOSS ADDITIVE	ALIPHATIC AMIDE POLYMER	PROPRIETAR
PRODUCTION	D255	$\supset$	$\times$	MED TEMP FLUID LOSS ADDITIVE	POLYACRILIC POLYMER	PROPRIETAR
			CJ213	RETARDER	CHRYSTALLINE SILICA	14808-60-7
	>>	FL-66	CJ501	LOW TEMP FLUID LOSS ADD	POWDERED POLYSACCHARIDE	PROPRIETAR
		BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301	$\times$	VISCOSIFIER/ANTI- SETTLING AGENT	REFINED POLYMER/ CHRYSTALLINE SILICA	PROPRIETAR
	D198	R-3		CEMENT RETARDER	LIGNIN	8068-51-6
	SUGAR	SUGAR	CJ795	CEMENT RETARDER	SUCROSE	57-50-1

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#### **Proposed Drilling Program** Southwestern Energy Company Re-entry Rig: TBD OCC A OHI 401 Well: Marcellus Shale Field: PANHANDLE FIELD WET Prospect: WV State: County: OHIO -80.5981 Longitude SHL: 40.0793 Latitude 40.1175 Latitude BHL: -80.6291 Longitude 1,096 ft MSL 1,122 ft MSL KB: 26 ft AGL GL Elev: KB Elev: 126' to 552' Air/Mist PROD TOC Lead @ 2,000 ' MD PROD TOC Tail @ 5,539 ' MD 552 to 1,920 Air/Mist **TUBULAR DETAIL** Planned Interval Casing Weight **Casing String** Grade (Min) Size (in) (Min) To From 1.920' to 5,931' Conductor 20 94.0# J-55 0' 126' Air/Mist Surface/Coal 13.375 48.0# H-40 01 532 1 Intermediate 9.625 J-55 0' 1.900 36.0# Production 5.5 23.0# P-110 HP 0' 24,892 CEMENT DETAIL Sacks Class Density Conductor: 151 A 19.3 Surface: 513 A 15.6 Intermediate: 15.6 819 A Production: 4825 . A 14.5-15.6 KOP at 6,031 'MD Freshwater Depth - 393 'TVD 5,931 to 7,517 Coal Depth - 462 'TVD 13.0-13.7 Saltwater Depth - 586 'TVD TVD - 6,218 'TVD RECEIVED Office of Oil and Gas TMD - 24,892 ' APR 2 0 2022 WV Department of TD at 24,892 'MD 6,218 ' Target Center 5,933 'TVD EOB at 7,517 'MD Onondaga 5,954 'TVD 7,517 to 24,892 ' SHL Onondaga 6,239 'TVD 13.0-13.7 Created by: CR Hall on 02/25/2022

MOK 78/2002

WW-9 (4/16)

API Number 4	7 -	069	
Onerat	tor's	Well No	OCC-A OHI 401H

#### 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) Roney Point Run of Little Wheeling Creek Quadrangle Valley Grove	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No Will a pit be used? Yes No	
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes No ✓ If so, what ml.?	
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection ( UIC Permit Number Various Approved Facilities	
Reuse (at API Number At the next anticpiated well	)
Off Site Disposal (Supply form WW-9 for disposal location)  Other (Explain recovery and solidification on site	
Will closed loop system be used? If so, describe: Yes- See Attachment 3A	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Artest to NOP, fixed details	with SOBM from KOP to TD
-If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Base	
Additives to be used in drilling medium? Attachment 3B	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)	
-Landfill or offsite name/permit number? Meadowfill SWF-1032, Short Creek SWF-1034, Carbon Limestone MSWL018781,	Wetzel County 1021
Apex Sanitary Landtill 06-08438, Brooke Co SVVF-1013,	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated wast West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall be provided within 24 hours of rejection and the permittee shall be provided within 24 hours of rejection and the permittee shall be provided within 24 hours of rejection and the permittee shall be provided within 24 hours of rejection and the permittee shall be provided within 24 hours of rejection and the permittee shall be provided within 24 hours of rejection and the permittee shall be provided within 24 hours of rejection and the permittee shall be provided within 24 hours of rejection and the permittee shall be provided within 24 hours of rejection and the permittee shall be provided within 24 hours of rejection and the permittee shall be provided within 24 hours of rejection and the permittee shall be provided within 24 hours of rejection and the permittee shall be provided within 24 hours of rejection and the permittee shall be provided within 24 hours of rejection and the permittee shall be provided within 24 hours of rejection and the permittee shall be provided within 24 hours of rejection and the permittee shall be provided within 24 hours of rejection and the permittee shall be provided within 24 hours of rejection and the permittee shall be provided within 24 hours of rejection and rejectio	e rejected at any all also disclose
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTI on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and 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 application form and all attachments thereto and that, based on my inquiry of those individuals immedia obtaining the information, I believe that the information is true, accurate, and complete. I am aware that the penalties for submitting false information, including the possibility of fine or imprisonment.	I understand that the d/or other applicable on submitted on this tely responsible for
Company Official Signature Killian Woody	RECEIVED Office of Oil and Gas
Company Official (Typed Name) Brittany Woody	APR 2 0 2022
Company Official Title Senior Regulatory Analyst	
Er	WV Department of nvironmental Protection
Subscribed and sworn before me this 17th day of FEBRUARY , 20 22	WATER 2007
Notary Public Notary Public	Notary Public Official Seal State of West Virginia
My commission expires 3/1/2022	My Comm. Expires Mar 1, 2022 749 Richwood Ave Apt. 5 Morgantown WV 2650

Operator's Well No. OCC-A OHI 401H

Proposed Revegetation Treatment: Acres Distur	bed 17.9	Prevegetation pl	
Lime as determined by pH test min.2 Tons/acre or to	o correct to pH 3.0		
Fertilizer type 10-20-20			
Fertilizer amount 600/500	lbs/acre		
Mulch_ Hay/Straw	Tons/acre		
	Seed Mixtures		
Temporary		Perma	nent
Seed Type lbs/acre Attachment 3C		Seed Type	lbs/acre
Maps(s) of road, location, pit and proposed area rovided). If water from the pit will be land applicated, of the land application area. Photocopied section of involved 7.5' topographic	c sheet.	x W x D) of the pit, and	dimensions (L x W),
Maps(s) of road, location, pit and proposed area provided). If water from the pit will be land application area.  Photocopied section of involved 7.5' topographic plan Approved by:	c sheet.	s engineered plans include x W x D) of the pit, and	dimensions (L x W), a
Maps(s) of road, location, pit and proposed area provided). If water from the pit will be land applicated, of the land application area. Photocopied section of involved 7.5' topographical plan Approved by:	c sheet.	x W x D) of the pit, and	dimensions (L x W), a
Maps(s) of road, location, pit and proposed area provided). If water from the pit will be land applicated, of the land application area.  Photocopied section of involved 7.5' topographic plan Approved by:	c sheet.	x W x D) of the pit, and	l dimensions (L x W), ε
Attach: Maps(s) of road, location, pit and proposed area provided). If water from the pit will be land appliacreage, of the land application area.  Photocopied section of involved 7.5' topographic plan Approved by:  Comments:	c sheet.	x W x D) of the pit, and	l dimensions (L x W), ε
Maps(s) of road, location, pit and proposed area provided). If water from the pit will be land applianceage, of the land application area.  Photocopied section of involved 7.5' topographic plan Approved by:	c sheet.	x W x D) of the pit, and	l dimensions (L x W), ε
Maps(s) of road, location, pit and proposed area provided). If water from the pit will be land applianceage, of the land application area.  Photocopied section of involved 7.5' topographic plan Approved by:	lied, include dimensions (L	x W x D) of the pit, and	dimensions (L x W),

#### 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

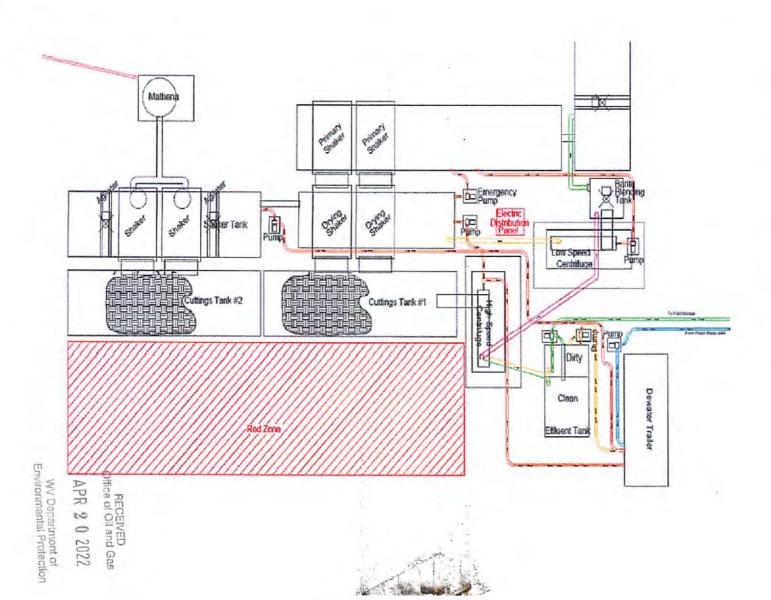
During air drilling operations, flow from the rig will pass down the flowline to the Shale Gas Separater (sometimes called a methane) where gas and liquids/solids are separated. Gas is sent to the flare scrubber tank and is flared at the flare stack. Solids and fluids pass across a shaker system to separate 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.

# Solids Control Layout





#### **Attachment 3B**

### **Drilling Mediums**

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

Air

Freshwater (if needed based on conditions)

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

Air

#### **Production Hole:**

Air

Synthetic Oil (Base Fluid for mud system)

**Barite** 

Calcium Chloride

Lime

**Organophilic Bentonite** 

**Primary and Secondary Emulsifiers** 

Gilsonite

**Calcium Carbonate** 

**Friction Reducers** 



### **WVD Seeding Specification**



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

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		Apply @ 200lbs per acre
April 16th- Oct. 14th		Oct. 15th-April 15th
Organic Fertilizer @ 200lbs per Acre		Pelletized Lime @ 2 Tons per Acre

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	Apply @ 50lbs per acre
April 16th- Oct. 14th	Oct. 15th- April 15th



47 Qw 6 - 9 au Oio O Co 3 po 44, 20

1300 Fort Pierpont Dr, Ste 20 Morgantown, WV 26508 Tel: 304 884 1610 Fax: 304 471 2497 www.swn.com

March 18, 2022

Mr. Charles Brewer Office of Oil & Gas 601 57<sup>th</sup> Street Charleston, W V 25304

RE: Proposed New Well: OCC A OHI 401H

Dear Mr. Brewer:

SWN has reviewed the area of the above mentioned well and discovered no shallow wells within 500° of the lateral. This well is situated on the OCC A's property, in Triadelphia District, Ohio County, West Virginia.

If you have any questions or desire additional information, please me at 304-884-1613.

Thank you.

Sincerely,

Buttany Woody

Brittany Woody Senior Regulatory Analyst Southwestern Energy Production Company, LLC

> RECEIVED Office of Oil and Gas

APR 2 0 2022

WV Department of Environmental Protection



# MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN

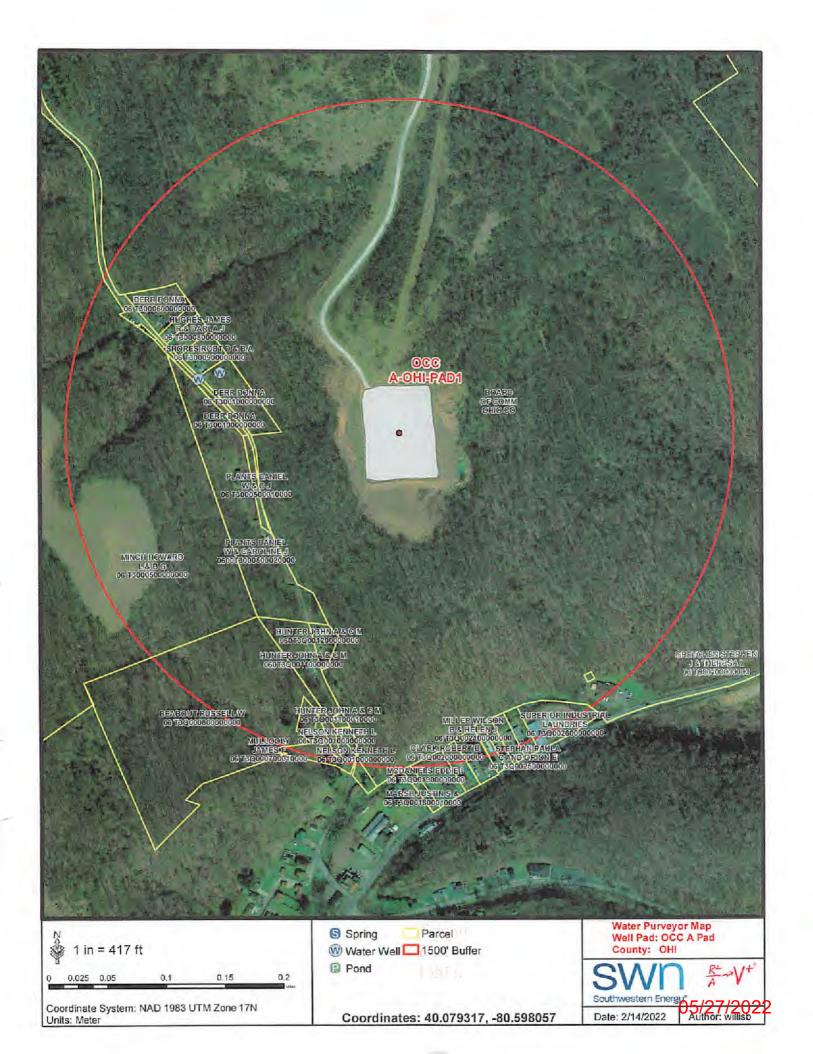


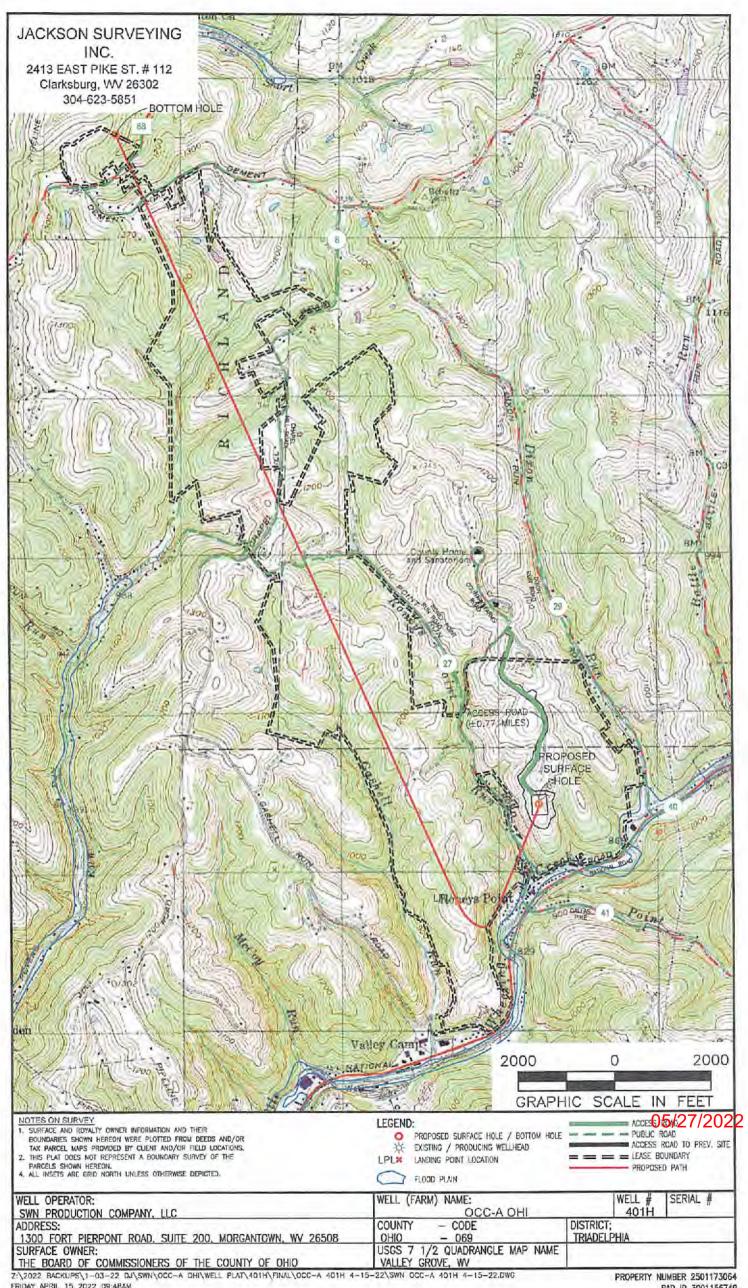
SWN Production Company, LLC 1300 Fort Pierpont Drive, Suite 201 Morgantown, West Virginia 26508

API NO. 47-XXX-XXXXX
WELL NAME: OCC A OHI 401H
Valley Grove QUAD
Triadelphia DISTRICT
OHIO COUNTY, WEST VIRGINIA

Submitted by:		
Name: Brittany Woody  Brittany Woody	Date: <u>2/15/2022</u>	
Title: Senior Regulatory Analyst	SWN Production Co., LLC	
Approved by:  Name: Mayne John  Title: Tupcom	Date: 3/8/202)	
Approved by:		
Name:	Date:	RECEIVED Office of Oil and Gas
Title:		APR 2 0 2022
CWALDRODUCTION COMPANY LLC	CONFIDENTIAL	WV Department of Environmental Protection

SWN PRODUCTION COMPANY, LLC - CONFIDENTIAL





Latitude: 40°05'00" SURFACE HOLE 4,133 Latitude: 40°07'30' BOTTOM HOLE 1,145' JACKSON SURVEYING INC 55 2413 EAST PIKE ST. # 112 Clarksburg, WV 26302 304-623-5851 - BHL SURFACE HOLE LOCATION (SHL) UTM (NAD83, ZONE 17, METERS): NORTHING: 4,436,541,323 EASTING: 534,266.082 SURFACE 2,738 ANDING POINT LOCATION (LPL): UTM (NADB3, ZONE 17, METERS): NORTHING: 4,436,022.937 EASTING: 533,749.347 HOLE 80,35,00" BOTTOM HOLE LOCATION (BHL): UTM (NADB3, ZONE 17, METERS): NORTHING: 4,440,862.802 EASTING: 531,605.221 DESCRIPTION MON SHL TO LANDMARK FD. SHL TO LANDMARK FD. 6" BOTTOM N 80'42'02" E S 06'59'30" W 1868.18 1477.68' DISTANCE 2643.90' CURVE LENGTH 80,37,30" .ongitude: NTS (P)700 401H \*\*100 B137 0 - 570 40 E ₩05H-023H 14 0 111 3/205H 0201H 3/205H LI RESTRICTIONS
NO CICUPED DWILTINGS > 2500 SQ FT, WITHIN 625 FEET OF CENTER OF PAD.
NO ASSICULTURE BUILDINGS > 2500 SQ FT, WITHIN 625 FEET OF CENTER OF PAD.
WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF O O DACKSON MENSES WELSS ON GENELOPED SPRINGS ARE WITHIN 220 FEET OF SEO WELL MITS OF DISTURBANCE. TURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF OF DISTURBANCE. OUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET LL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR WATER SUPPLY. NOTES ON SURVEY NOTES ON SURVEY

1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR
BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR
TAX PARCEL MAPS FROVIDED 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.

1. THE UNDERSIGNED. HEREBY CERTIFY THAT THIS PLAT IS
CORRECT TO THE BEST OF MY KNOWLEDGE AND BELLIEF AND SHOWS
ALL THE INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED
AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION. 2000 0 2000 STATE OF STA GRAPHIC SCALE IN FEET COMPANY: David L Jacks Production Company, LLC Production Company<sup>34</sup> (+) DENOTES LOCATION OF WELL ON MINIMUM UNITED STATES TOPOGRAPHIC MAPS DEGREE OCC-A OHI DEGREE OF ACCURACY: 1/200 401H OPERATOR'S WELL #: PROVEN SURVEY SOURCE OF GRADE GPS OFFICE OF OIL & GAS 47 069 00342 601 57TH STREET API WELL #: ELEVATION: (NAVD 88, US FT) CHARLESTON, WV 25034 STATE COUNTY PERMIT WASTE DISPOSAL WELL TYPE: OIL PRODUCTION GAS DEEP LIQUID INJECTION STORAGE SHALLOW X RONEY POINT RUN OF LITTLE WHEELING CREEK OF WHEELING CREEK (HUC-10) ELEVATION: 1095.2 DISTRICT: TRIADELPHIA QUADRANGLE: VALLEY GROVE, WY COUNTY: OHIO SURFACE OWNER: THE BOARD OF COMMISSIONERS OF THE COUNTY OF OHIO ACREAGE: ±262.85 OIL & GAS ROYALTY OWNER: THE BOARD OF COMMISSIONERS OF THE COUNTY OF OHIO ACREAGE: ±262.85 DRILL DEEPER DRILL REDRILL PLUG OFF OLD FORMATION FRACTURE OR STIMULATE PERFORATE NEW FORMATION CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) ESTIMATED DEPTH: 6,218 ND 24,892 IMD TARGET FORMATION: MARCELLUS 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 MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: ZIP CODE: 26508 STATE: WV LEGEND: - SURVEYED BOUNDARY REVISIONS: DATE: 04-15-2022 於 LPL× PROPOSED SURFACE HOLE / BOTTOM HOLE EXISTING / PRODUCING WELLHEAD LANDING POINT LOCATION = = = LEASE BOUNDARY DRAWN BY: N. MANO SCALE: 1" = 2000' PROPOSED PATH DRAWING NO:

(9)

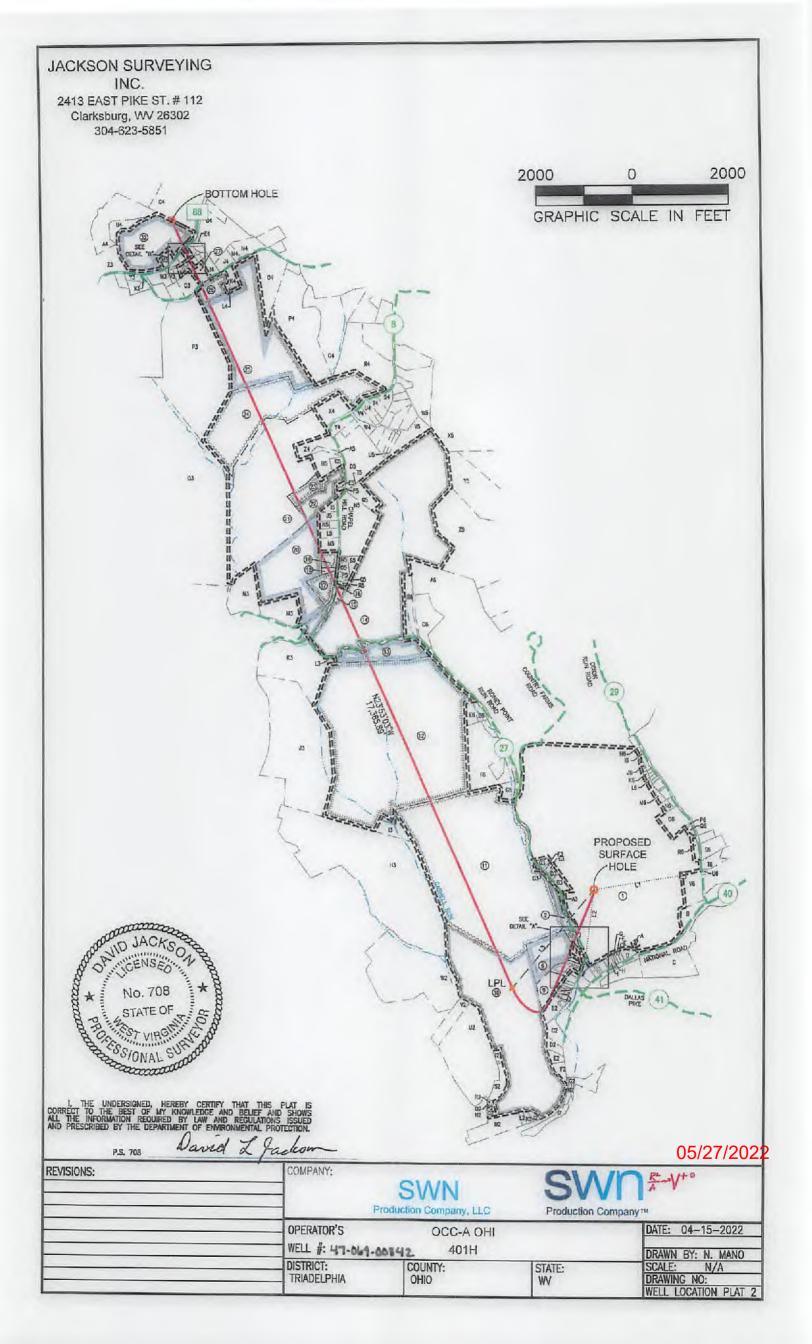
EXISTING SPRING

FRIDAY APRIL 15 2022 09:46AM

Z:\2022 BACKUP\$\1-03-22 DJ\\$WN\0CC-A OH|\WELL PLAT\401H\FINAL\0CC-A 401H 4-15-22\\$WN 0CC-A 401H 4-15-22.0WG

WELL LOCATION PLAT

HOLE

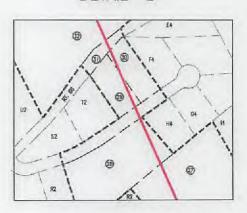


## JACKSON SURVEYING INC.

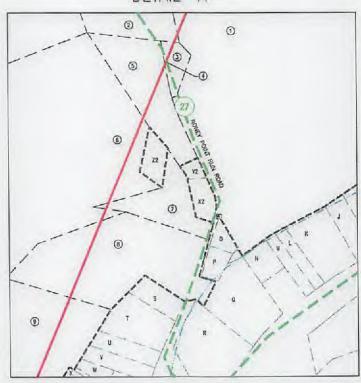
2413 EAST PIKE ST. # 112 Clarksburg, WV 26302 304-623-5851

	WELL BORE TRACTS	
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	BOARD OF COMMONIO CO (S/R)	3-113-3
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	HANNING RANDY & BRENDA [S]	6-T3-5.2
3	HUNTERJOHN A & C M (S)	6-T3Q-12
4	WV DEPARTMENT OF TRANSPORTATION (S)	ROLITE 27
5	HUNTER JOHN A & C M (S)	6-T3Q-11
6	BEABOUT RUSSELL W (S)	6-T3Q-8
7	MULLOGLY JAMES F (S)	6-T3Q-7.1
8	FISCHER PAMELA (S)	6-T3Q-6
9	PARSONS JOSEPH L & SALLY (S)	6-T3P-1
10	CROW RAYMOND E (5)	6-78-7
11	MINCHTIMMY B & AMY LYNN (S)	6-73-5
12	OGLEBAY FOUNDATION PROPS INC ANNA C MAXWELL REV TRUST [5]	3-L13-1
13	MAXWELL JOSEPH E ANNA C MAXWELL REVOCABLE TRUST (S)	3-L13-1.2
14	LUCHETTI ROBERT R SR - TOD (S)	3-L10-23
15	MILLER CALVIN F.& B.J (S)	4-L10-25.1
16	MILLER WILSON B (S)	4-110-25
17	LUCHETTI ROBERT R SR - TOD (S)	4-R15-28.4
18	WOOD MATHEW (S)	4-R15-28-6
19	WOOD MATHEW J (S)	4-R15-28.3
20	LUCHETTI ROBERT R SR - TOD (S)	4-R15-28
21	PORTER SANDRA K (5)	4-R15-25
22	A D BAKER HOMES INC (5)	3-110-19
23	SMITH PRESTON T & SARAH J [5]	3 L10-19.6
24	GOMPERS EDWARD D AND LINDA M(S)	4-R15-25.1
25	SIXTY FOUR LLC (5)	4-R15-21
26	DICKINSON JAMES F; ET AL (S)	4-R15-23
27	SHACKELFORD HOWARD L& B M(S)	4-R15-20.3
28	GENTILE ANTHONY J CHAPPANO RITA M (S)	4-R12-10.13
29	MARTIN TIMOTHY A & J M (5)	4-R12-10.6
30	MARTIN TIMOTHY A & JANICE M (S)	4-R12-10.10
31	WV DEPARTMENT OF TRANSPORTATION (S)	ROUTE 88
32	MULLW QUAY II TRUST (S)	4-R12-10.14

DETAIL "B"



DETAIL "A"



I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS STATE OF WIND HORMAND BELIEF AND SHOWS THE INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 708

P.S. 708

P.S. 708

05/27/2022

REVISIONS:

SWN

Production Company, LLC

OPERATOR'S

OPERATOR'S

OCC-A OHI

WELL #: 47-069-00242

401H

DISTRICT:
TRIADELPHIA

COUNTY:
OHIO

STATE:
WELL LOCATION PLAT 3

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

ADJOINING OWNERS TABLE				
RACT	SURFACE OWNER	TAX PARCE		
A	VILLAGE OF VALLEY GROVE	6-T3Q-27		
В	JDS INVESTMENTS LLC	6-T3-16		
C	GARRISON MELODY	6-T3-33		
D	SUPERIOR INDUSTRIAL LAUNDRIES INC	6-73Q-26		
E .	STEPHAN PAULA C AND ORION E	6-T3Q-25		
F	FISHER LOGAN J	6-T3Q-24		
G	CLARK ROBERT B & EVELYN M	6-T3Q-23		
Н	SWAIN MARVIN H & K L	6-T3Q-22		
1	PHKILC	6-T3Q-21		
1	HAMMONS TAMMY M	6-T3Q-20		
K	MCDANIELS EDDIE L & MCDANIELS TRACY L	6-T3Q-19		
L	P-3 EQUITIES LLC	6-T3Q-18.1		
M	FLACK HOLLY M	6-T3Q-18		
N	MCKENNEN JOSEPH A III	6-T3Q-17		
0	BOARD OF COMMOHIO CO	6-T3Q-13		
p.	FISCHER DONALD RJR			
		5-T3Q-7.2		
Q	VALLEY COIN MACHINE COMPANY LLC	6-T3Q-16		
R	MARQUART GREGORY F & LA; MARQUART PHILLIP J & K L	6-T3Q-15		
S	HARVATH PATRICIA H	6-T3Q-4		
T	HOWARD DANIEL K; HOWARD EJ HOWARD D; HOWARD A J	5-730-4.1		
U	VELAS JEREMY L & CARRIE L	6-T3Q-3		
V	YAHN MARY E & RAYMOND C	6-T3Q-2		
w	PACK AUSTIN M	The second secon		
		6-T3Q-2.1		
X	PACK AUSTIN M	6-T8B-7		
Y	LANGMYER KEYA FAWN	6-T88-6		
2	HALEY ROBERT M & MICHELLE L HALEY	6-T8B-4.1		
A2	NASH JOHN R JR & PAMELA L	6-TEB-4		
B2	PARSONS JOSEPH L & SALLY	6-T8B-1		
C2	NORMAN HOLLY LYNN	6-T8-B.2		
D2	GREEN GLORIA I & DAVID M	6-T8-8.3		
E2	MURRAY KENNETH W SR & WILBUR EJR			
		5-T8-8		
F2	CROW RAYMOND & SANDRA LEE	6-T8-8.4		
G2	EDGELL DEBORAH A	6-T8-32		
H2	EDGELLJOSEPH P & S J EDGELL EARL F (LIFE ESTATE)	6-T8-56		
12	PHK LLC	6-T8-58		
12	CROW RAYMOND & SANDRA	6-78-7.3		
K2	CROW RAYMOND & SANDRA L	6-T8-7.4		
L2	CROW RAYMOND E JR & RANEE E	77777		
		6-T8-7.2		
M2	LD REALTY INC	6-78-3		
N2	LD REALTYING	6-18-3.9		
02	SCHREIBER JEREMY	6-T8-6.3		
P2	PRITT SARAH	6-T8-6.2		
Q2	MATTIS KIMS & FAYE	6-T8-6.4		
R2	MATTIS KIM 5 & FAYE	6-T8-6.1		
S2	PETTIT DEBORAH	6-78-3.3		
T2	PETTIT DEBORAH			
U2	THE PROPERTY OF THE PROPERTY O	6-78-60		
	MARSHALLJASON A AND NICOLE D	6-78-6.5		
V2	BOREMAN THOM O & M E	6-78-6		
W2	GOMPERS JAMES C C/O GOMPERS & ASSOCIATES	6-73-4.2		
X2	NELSON KENNETH L	6-T3O-10		
Y2	HUNTER JOHN A & CM	6-T3Q-11.		
Z2	BEHRENS WM D	6-T3Q-9		
A3	HANNING RANDY DALE & BRENDA JOYCE	6-T3-5.1		
83	BOARD OF COMMISSIONERS	T-7-27		
C3		6-T3-10		
	KETRON TRACY E & JOHN P	6-TB-7.1		
D3	SHORES BARBARA A	6-T3-9		
E3	HUGHES JAMES R & DARLA J	6-T3-8		
F3	KETRON TRACY E & JOHN P	6-13-7		
G3	DERR ALFRED	6-T3-6		
H3	SCOTT PAUL R & JOYCE A	6-T3-3		
13	HATCHER EDWARD A	3-113-1.5		
J3	MILLER FAMILY TRUST	4-R18-11		
K3	LUCHETTI ROBERT R JR & TERESA	4-R18-29		
13	OGLEBAY FOUNDATION PROPS INC MAXWELL ANNA CREV TRUST	3-113-1.1		
M3	CRONIN CHEYENNE & AMY	4-R15-28.		
N3	VESPA JOSEPH L	4-R15-28.		
03	NICHOLS RE3/8 INT, B LSNAPP 3/8 INT & M C NICHOLS 1/4 INT	4-R15-16		
P3	YOUNG TRAVIS & MICHELLE E			
Q3		4-R15-19		
	MILLER HAROLD J JR & 5 D	4-R15-20		
R3	ZANDO ZACHARY D & ASHLEY A	4-R12-10.5		
53	MCCULLOUGH RHONDA JO	4-R12-10.1		
T3	WELLING JAYSON & KARA C	4-R12-10.		
U3	GAUDIO ROBERT & CLARE MCDONALD	4-R12-11		

DACT	ADJOINING OWNERS TABLE	TAX PARCE
RACT	SURFACE OWNER	
V3	MENGEU BRIAN R & USA M	4-R12-10.9
W3	FORD 6 QUINN & MA	4-R12-10.3
Х3	WEST RENTALS INC	4-R15-32
Y3	KUREISHYZAVEEN A	4-R15-32.2
Z3	OGLEBAY FOUNDATION PROPS INC	4-R12-10.2
A4	WEST RENTALS INC	4-R12-10.16
B4	MULL W QUAY II TRUST	4-R12-10.17
C4	MULL W QUAY II TRUST	4-R12-12
D4	WEISS ROBERT LAND PATRICIA J IRREVOCABLE TRUST	4-R12-46
E4	FRANKLIN WOODS ESTATES HOMEOWNERS ASSCINC	4-R12-10.11
F4	STRAUB ENTERPRISES INC	4-R12-10.4
G4	WHEELER MARK R & PATRICIA A	4-R12-10.7
H4	WHEELER MARK R & PATRICIA	4-R12-10,15
14	SHACKELFORD HOWARD L & B M	4-R15-20,5
14	MCCULLEY BRIAN G	4-R12-47.2
K4	DICKINSON DANIEL WJR & G K	4-R15-21.1
L4	DICKINSON DANIELW IR	4-R15-21.2
M4	DUNAWAY MEGAN R & BENJAMIN J	4-R12-47.1
N4	FLANAGAN JILL E & JOSEPH V JR	4-R12-47
04	WITSBERGER AMY LISBETH	4-R15-22
P4	TEMPLETON JOHN J DR & LISA J CO-TRUSTEES	4-R15-23.3
Q4	REGAN CHRISTOPHER I & HILARY E	4-R15-23.4
	KOWCHECK DRAKE M & CAITUN	-
R4 54		4-R15-25.6
	HARRIS RICHARD D & PATRICIA	3-L10-17.2
T4	VAN DUSEN JOHN M II & VAN DUSEN AMANDA RAE	3-L10-17.1
U4	DERROW STEPHEN J	3-L10-17.4
V4	HERCULES EUGENE & CARMELINDA S	3-L10-18
W4	HUFFNER EARLP	3-L10-17.12
X4	MARRINER ROBYN LEE	3-110-51
Y4	WHITE KRISTIAN E & NICOLE	3-L10-19.1
24	PORTER SANDRA K - TOD	4-R15-25.5
A5	PORTER MARK E PORTER BARBARA V	4-R15-25.4
B5	PORTER MARK E & BARBARA V	4-R15-25.3
C5	HAMMERQUIST KAREN L	3-L10-52
D5	WHITE KRISTIAN E & NICOLE R	3-L10-19.3
E5	KOCH MARY C	4-L10-21
F5	KQCH MARY C	4-1.10-22
G5	LUCHETTI ROBERT R JR & TERESA	3-L10-19.5
H5	A D BAKER HOMES INC	3-L10-19.4
15	A D BAKER HOMES INC	4-R15-26
15	SIMONS WILLIAM JR & THERESA M	-
K5		4-R15-26.2
15	DIBARTOLOMEO ROBERT NEUMANN KAREN JENINE	4-R15-33
_		4-R15-28.7
M5	ROGERSON RONALD EDWIN	4-R15-28.1
N5	BAIER MARKT SR & DARLENA M	3-L10-25,6
05	WOOD MATHEW J & MARIA M	3-L10-25.2
P5	CAREY WAYNE L	4-L10-25.3
Q5	MATTERN KENNETH MARK & MATTERN DANA ANN	3-L10-25.4
R5	MILLER CALVIN F & BARBARA J	3-L10-25.5
35	WOOD MATHEW & MARIA M	3-L10-25.7
T5	WHITE KRISTIAN E & NICOLE R	3-L10-23.2
US.	MACNEALYJON A AND KAREN L	3-L10-17.15
V5	PALMER LOUIS III	3-110-17.10
W5	STINGLE KEVIN W & NICOLE A	3-110-13.2
X5	WALTERS GLEN L & R S	3-L10-28
Y5	BYRUM CAROUNE LOUSTAU	3-L10-27.3
25	ABRAHAM THOMAS R & S D	3-L10-26
A6	BOARD OF COMM OHIO CO	3-113-3.1
B6	WEIR ROBERT AND BRIDGET	3-1.10-23.1
C6	OHIO COUNTY COMMISSION	3-L10-23.3
D6	BENNETT JEFFREY R	3-1.13-2.2
E6	WALTON LISA	3-113-2.2
F6	MINCH TIMMY B & AMY LYNN	3-1.13-2.3
66	SHELLER CARL J	3-1.13-24
H6		-
15	STEVENSON KIMBERLY; STEVENSON JAMES; DELGADO BRENDA STEVENSON LOVERIDGE TYSON L & VANESSA	3-113-6.1
J6		3-L13-6
	LOVERIDGE TYSON L & VANESSA	3-L13-6.4
K6	WHEELER JAMES E III & WHEELER CHRISTINE	3-113-8.2
L6	WHEELER JAMES E JR & B J	3-L13-9
M6	WHEELERJOLLY W SR & SARAH JANE (LE); ET AL	3-1.13-12.3
N6	SHEARER STEVEN P	3-113-12-1
05	KNIGHT JAMES C & D L	3-L13-13
P6	DEMERSKI GARY L & MARY C	3-L13-14
Q5	BARON KEITH E & CJ	3-113-15
R6	HOLMAN HARRY E & CHERYL L	6-T3-11
56	HOLMAN CHERYL L& HE	6-T3-13
T6	MOORE GERALD T & A M	6-T3-14
UE	MOORE GERALD T & A M	6-T3-14.1
-	OHIO COUNTY COMMISSION	6-T3-28

REVISIONS:

COMPANY:

SWN

Production Company. LLC

OPERATOR'S

OCC-A OHI

WELL #: 41-04-06-42

401H

DRAWN BY: N. MANO

DISTRICT:
TRIADELPHIA

OHIO

WELL LOCATION PLAT 4

WW-6A1 (5/13) Operator's Well No. OCC-A OHI 401H

#### 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 –

- (I) 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:

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

See Exhibit A

RECEIVED Office of Oil and Gas

APR 2 0 2022

WV Department of Environmental Protection

#### 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 Co., LLC	Han Nahar
By:		Gavin Nadeau, RPL
Its:	Tyring No. 1100	Landman

Page 1 of

		OCC Otilu Cost	HBIT "A" A OHI 401H dy, West Virginia	C 0		
£c.	i Taip	Attached to and made a part of the State of West Virginia Oil and C		C. Operator	useri I	INTERPAT NOT LEASED BY
i)		the Hoerd of Commissioners of Chin Crunty ark a The County Commission of Chin County	Chesapenke Appalachin, L.L.C.	18 00%	\$04711 \$45.272	0.00%
21	06-00T3-0005-0002	Cervine J. Plants, a L. a Carvine J. Sammon , married, dealing in her sole and separate property	SWN Production Company, LLC Chesepoule: Appelachia, L.L.C.	18.00%	\$08 123	o ore.
3)	06-0730-0012-0000	John A. Hunter and Cindy M. Famter, husband and write	SWN Production Company, LLC Chesapouke Appalachia, L.L.C.	18.00%	883/279 809/108	0.00%
-'			SWN Production Company, LLC SWN Production Company, LLC	20.00%	\$\$3/279 951 519	0.00**
5)	06-0/T3Q-0011-0090	West Virginia Department of Transportation, Division of Highways Adm A. Hanter and Cridy M. Hanter, husband and wife	Chesapenke Appelachts. L.L.C.	18.00%	836/117	0.00%
6)	06.0T30.0008.0000	Wayne Heabrust, married, and Russell W. Beabrus, married	SWN Production Company, LLC Chosepanke Appelachia, L.L.C.	18.00%	883/267 812/650	0.00%
			SWN Production Company, LLC	It ur.	884 265 826 211	
7)	-	James F. Mulliwely, sarghi	Chesapeake Appelachia, L.I. C. SWN Production Company, LLC		885/152	0.00%
8)	06-0T3Q-0H06-0000	Pemcia Fischer, single	Choseposko Appelachia, L.I.C. SWN Production Company, LLC	18.00%	806/223 883 267	0.000.
9)	06-0T3P-0001-0000	Joseph L. Parsons and Sally Persons, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	811:85	000.
tor	06-0078-0007-0000	Raymend E. Crow and Sandra Lee Crow, busband and wele	SWN Production Company, LLC Chosepunke Appelachia, L.L.C.	12.50%	883/144 796/1	0.000
			SWN Production Company, LLC	18.00%	885/482 937/435	J.M. B
111	06-0073-0005-0000	Anthony L. Asserv, Jr. and Lone Merir Asserv, husband and wife Steven L. Cock, and Linda G. Cock, husband and wife	SWN Production Company, LLC SWN Production Company, LLC	18.00	937 518	
		Daniel A. Minch and Gins Minch, husband and wife Dannis P. Minch, single	SWN Production Company, LLC SWN Production Company, LLC	18 00°+	937/414 937/421	0.00%
		Howard L. Minch, Jr. and Christine Minch, busband and wife	NWN Production Company, LLC	18.00° •	937/511	9.0XF-
		Randall A. Minch, single Timmy B. Minch and Amy Lynn Minch, bushend and wife	SWN Production Company, ILC SWN Production Company, ILC	18 00** 18 00**	937/391	
121	** ** ** ***	Acry Vergo and Marianne Vargo, himband and wife	SWN Production Company, LLC SWN Production Company, LLC	18.00%	917/525 963 315	
121	G3-0L13-0001-0000	The Anna C. Maxwell Revocable Trust, Dated 6 4/1997, by Joseph E. Maxwell. Trustee	SWN Production Company, LLC	18,00%	965/21	0.00%
13)	03-0L13-0001-0002	kueph E. Maxwell and Sinder M. Maxwell, husband and wife The Anna C. Maxwell Reveable Trinst, Dated 6/4 1997, by Joseph E. Maxwell, Trinstee	SWN Production Company, LLC SWN Production Company, LLC	18.00%	965/19 965 21	0.00%
14)		Robert R. Luchetti, Sr. e Sc a Robert R. Luchetti, a widowor	SWN Production Company, LLC	18 (4)4.	1012:507 887/545	0.00%
15)		Calvin F. Milker and Harbara J. Milker, bushased and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	16.00%	895/498	0.00%
lo)	04-01.10-0025-0000	Holen J. Miller	Chesepeake Appelachia, L.L.C. SWN Production Company, LLC	18.00%	209/537 234-61	0.00%
17)	04-0R15-0028-0004	Robert R. Luchetti and Adelaide T. I achetti, harband and wife	Chesaponke Appalachia, L.L.C.	12.50%	793/37 685/248	0.00%
18)	04-0H15-0028-0006	Mathew J. Wood, a single man	SWN Production Company, LLC Choseparke Appellachia, L.L.C.	18 00%	806/399	0.00%
191	04-0815-0028-0003	Mathew J. Wood, a size to man	SWN Production Company, LLC Chesaponke Appalachia, L.L.C.	18.00%	884 25 806 391	00%
			SWN Production Company, LLC		884/25 793/37	
20)		Rubert R. Luchetti and Adelaide T. Luchetti, husband and wife	Cheseponke Appalachia, L.L.C. 8WN Production Company, LLC	12.50%	885/248	0.00*•
2()	04-0R15-0025-0000	Russell E. Porter and Sandra K. Poster, busband and wife	Fortuna Energy Inc. Renga Resources - Appatachia, LLC	12.50%	710 713 798-694	
			Chosepusko Appelachie. L.L.C.		808/448 854 181	0.00%
22)	03-01.10-0019-0000	Louis Adm Lauch, a L'a Louis J. Lauch, widower	SWN Production Company, LLC Chosapeake Appelachia, L.I.C.	18,004	R13/1	0.00%
23)	OLD MANISARK	Look John Lasch, etc a Louis J. Lasch, widower	SWN Production Company, LLC Cheseparke Appelachia, L.L.C.	11.00°•	885/776 813 I	
			SWN Production Company, LLC		\$\$5/776	0.00**
24)	04-0R15-0025-0001	Edward D. Gompore and Linda M. Ovrupers, husband and wife	Fossil Creek Ohio, LLC Gulfport Energy Corporation	\$8,00%	871 752 893 392	oue.
			American Petroleum Pertners Operating, LLC SWN Production Company, 11 C		909 775	V.V., •
25)	04-0R15-0021-0000		SWN Production Company, LLC	16.00*•	933/585	our,
26)	04-0R15-0023-0000		Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	843 579 885 53	
		Martin B Dickings	Cheseposke Appalachia, L.L.C. SWN Production Company, LLC	12.00*+	\$43/583 \$85 53	
		Adm (Nakimwo	Chewpanke Appalachia, L.L.C.	18.00**	843/587	0.00%
		Denald W. Dickinstn. Jr.	SWN Production Company, LLC Chesaponke Appalachia, L.L.C.	18.00*4	685 53 843/591	
		Duruday Elles Crossesses	SWN Production Company, LLC Choseputke Appelachia, L.L.C.	18.00%	885/\$3 843/616	
		·	SWN Production Company, LLC		£85 53	
27)	04-0R15-0020-0003	Howard L. Shackeilard and Betty M. Shackeiford, husband and wife	Chessponke Appalachia, L.L.C. SWN Production Company, LLC	14,00%	793:38 885 776	0.00%
28)	04-0R12-0010-0013	Authory J. Gentile and Risa M. Gentile, Fle a Rita M. Chappano	Chesapenke Appalachia, L.L.C.	18,00%	839/603 885/1	0.00~
29)	04-0R12-0010-0006	Timothy A. Martin and Junioe M. Martin, busheed and wife	SWN Production Company, LLC Chesepaske Appalachia, L.L.C.	18.00%	84u/144	0.00%
30)		Timethy A. Martin and Junice M. Martin, husband and wife	SWN Production Company, LLC Chesapeake Appalachia, L.L.C.	18,00%	845:13 840:144	0.00
			SWN Production Company, LLC	15.00%	885/13 830/11	
20)		Wort Virginia Department of Transportation, Division of High ways	Cheseponke Appelachus, L.L.C. SWN Production Company, LLC		\$13.620	0.00%
32)	04-0212-0010-0014	W. Quay Moll, II, married	Chempeako Appalachia, L.L.C.	14.00%	799 213	0.0007

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Office of Oil and Gas

APR 2 0 1882

WV Deparation - Environmental - -



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

April 11, 2022

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

**RE:** SWN's proposed New Well: OCC-A OHI 401H in Ohio County, West Virginia, Drilling under Chapel Hill Road and Roney Point Run Road.

Dear Mr. Brewer:

SWN Production Company, LLC ("SWN") is applying for a drilling permit for the above referenced well. The State of West Virginia has raised some concern as to SWN's right to drill under Chapel Hill Road and Roney Point Run Road. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you.

Respectfully,

SWN Production Company, LLC

Gavin Nadeau, RPL

Landman

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WV Department of Environmental Protection

R-ANV+°

The Right People doing the Right Things, wisely investing the cash flow from our underlying Asset Type 1975 1975

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

Date of Noti	ce Certification:	A	PI No. 47- 009 -	
		0	perator's Well No. 0	CC-A OHI 401H
		V	Vell Pad Name: OCC	A OHI Pad
Notice has	been given:			
Pursuant to the	he provisions in West Virginia Code	§ 22-6A, the Operator has provide	ded the required partie	with the Notice Forms listed
below for the	tract of land as follows:	3-1-20-1-20-1-20-1-20-1-20-1-20-1-20-1-2		
State:	West Virginia	UTM NAD 83	Easting: 534266.082	
County:	069-Ohio	OTMINAD 85	Northing: 4436641.323	
District:	Triadelphia	Public Road Acces	Rodneys Poir	t Run
Quadrangle:	Valley Grove	Generally used farm	m name: OCC-A OHI	
Watershed:	Ronev Point Run of Little Wheeling Creek			
requirements Virginia Cod	e surface owner notice of entry to su of subsection (b), section sixteen of le § 22-6A-11(b), the applicant shall to have been completed by the applican	f this article were waived in w ender proof of and certify to the	riting by the surface	owner; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the require ECK ALL THAT APPLY		s Notice Certification	OOG OFFICE USE
- FLEVAR CH	ECK ALL INAL AFFL I			ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS		☐ RECEIVED/ NOT REQUIRED
■ 2. NO	TICE OF ENTRY FOR PLAT SURV	YEY or NO PLAT SURVEY	Y WAS CONDUCTED	- RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL OF	NOTICE NOT REQUIRE NOTICE OF ENTRY FOR PI		☐ RECEIVED/ NOT REQUIRED

#### Required Attachments:

5. PUBLIC NOTICE

6. NOTICE OF APPLICATION

4. NOTICE OF PLANNED OPERATION

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.

☐ WRITTEN WAIVER BY SURFACE OWNER

RECEIVED Office of Oil and Gas

APR 2 0 2022

WV Department of Environmental Protection

(PLEASE ATTACH)

☐ RECEIVED

☐ RECEIVED

RECEIVED

#### Certification of Notice is hereby given:

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

Well Operator: SWN Production Co., LLC

Brittany Woody

Its: Telephone:

Bv:

Senior Regulatory Age

304-884-1610

Address:

1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508 Facsimile:

304-884-1690

Email:

Brittany\_Woody@swn.com

NOTARUS SINABOOTH Notary Public Official Seal State of West Virginia My Comm. Expires Mar 1, 2022 749 Richwood Ave Apt 5 Morgantown WV 26505 Subscribed and sworn before me this 17th day of FRERRIAM 2022

Notary Public

My Commission Expires 3/1/2022

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.

> RECEIVED Office of Oil and Gas

APR 2 0 2022

WV Department of Environmental Protection WW-6A (9-13) API NO 47- 009

OPERATOR WELL NO. OCC-A OHI 401H

Well Pad Name: OCC A OHI Pad

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

Not	ice Time Requirem	ent: notice shall be	provided no later than	the filing date of permit application.	
	e of Notice:	_ Date Permit Ap	oplication Filed:	<u> </u>	
Not	ice of:				
V	PERMIT FOR AN	Y CE	RTIFICATE OF APP	ROVAL FOR THE	
	WELL WORK	CC	INSTRUCTION OF A	N IMPOUNDMENT OR PIT	
Deli	ivery method pursu	ant to West Virgi	nia Code § 22-6A-10	(b)	
	PERSONAL	✓ REGISTERE	D METHO	DD OF DELIVERY THAT REQUIRES A	A
	SERVICE	MAIL	RECEI	PT OR SIGNATURE CONFIRMATION	
the soil addescooper more well important provides the cooper well important provides the cooper well important provides the cooper well and the cooper well important provides the cooper was a cooper with the cooper well and the cooper well are cooper well and the cooper well are cooper well and the cooper	surface of the tract on and gas leasehold being tribed in the erosion a rator or lessee, in the ecoal seams; (4) The work, if the surface coundment or pit as doe a water well, spring wide water for consumpted well work activities of the sheriff requires of the sheriff requires of the sheriff requires of the sarticle to the R. § 35-8-5.7.a require purveyor or surface	which the well is on a developed by the and sediment control event the tract of lar cowners of record of tract is to be used for escribed in section nor water supply sound it is to take place. It is to be maintained to be maintained the contrary, notice puires, in part, that the owner subject to no	r is proposed to be local proposed well work, if a plan submitted pursual id on which the well profit the surface tract or tract in the placement, constraint of this article; (5) A rece located within one to domestic animals; and (c)(1) If more than three the lands, the applicant ed pursuant to section enter the lands of the placement is not a lien holder is not a coperator shall also protice and water testing a	the well plat to each of the following persons ted; (2) The owners of record of the surface the surface tract is to be used for roads or on the subsection (c), section seven of this and possed to be drilled is located [sic] is knowned to soverlying the oil and gas leasehold being action, enlargement, alteration, repair, remony surface owner or water purveyor who is housand five hundred feet of the center of the tenants in common or other co-owners of it may serve the documents required upon the ight, article one, chapter eleven-a of this contoice to a landowner, unless the lien holder ovide the Well Site Safety Plan ("WSSP") the provided in section 15 of this rule.	tract or tracts overlying the ther land disturbance as little: (3) The coal owner, in to be underlain by one or g developed by the proposed val or abandonment of any known to the applicant to he well pad which is used to field within which the interests described in the de. (2) Notwithstanding any is the landowner. W. Va. to the surface owner and any
			☐ E&S Plan Notice	☑ Well Plat Notice is hereby provided	d to:
	URFACE OWNER( ne: Board of Commissions			☐ COAL OWNER OR LESSEE  Name: Alliance Resources GP, LLC	
	Iress: 1500 Chapline St.,			Address: 2596 Battle Run Road	
	eling, WV 26003			Triadelphia, WV 26059	
Nan				☐ COAL OPERATOR	
	lress:			Name:	RECEIVED
1000				Address:	Office of Oil and Gas
TI ST	URFACE OWNER(	s) (Road and/or Otl	ner Disturbance)	Addiess.	APR 2 0 2022
	1e:			SURFACE OWNER OF WATER WE	
Add	ress:			AND/OR WATER PURVEYOR(s)	WV Department of
				Name: See Attachment 13A	Environmental Protection
Nan	ne:			Address:	
Add	ress;			, tout 633.	
				OPERATOR OF ANY NATURAL GA	AS STORAGE FIELD
DSI	JRFACE OWNER(	s) (Impoundments of	or Pits)	Name:	The second secon
	ne:			Address:	
Add	ress:			South - 100.	
				"Please attach additional forms if necessary	ary

API NO 47 CT OPERATOR WELL NO 00 ACL Well Ped Name (100 Apid to)

#### STATE OF THE STATE OF MEST VERGINGA DEPARTMENT OF THE TRONDENT ALFRO LECTION. OFFICE OF OIL AND GAS NOTICE OF APPLICATION

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Some Time Requirements notice shell are exched as later force of Person Regularities of Rectar Application River Notice of	inter the thing date of permits applifications.
	GE APPROX AL C <b>OR</b> TUB
28C # 1.176	BY ON AN INDOMENDED OR PILE
Orbivery anchord participant to West Virginia Code § $22$ -ver	(4)01-7-6-2
<del>-</del> -	ЛЕГЕН ОК ŞUZALT СКЕТОМЕРКІЛІКА ГІВОРІІ (1994) — «ВЕСЕГЕТ ОК ŞUZALT СКЕТОМЕРКЫ ДТИОН
the service of the read on which the well is on a project will when and and got leastled being developed by the propositional will well and apparations. It is seen and or among control plan orders an operations, losses, in one waste the facet of land, in which the words well well is action of the enface trust of well is action the first endace trust or any another that the surface trust or any another that the surface trust or any another that the placement, companied with a surface trust or any appropriate order for any any and the surface trust is a surface or well as a surface or any and any and the surface trust of the surface or any and the face of the surface of the surface or any and the face of the surface or any and that the operator shart in a some continuous and the surface of the surface or any and that the operator shart in a some continuous and the surface or any and the surface of the surface	tet bubinang laterat al including teletition paratisk.
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[] NORTH OWNER(s) (impronduces on the)	JOHERATOR OF ANY VALLERAL GAS STORAGE FIELD.
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API NO. 47-009 OPERATOR WELL NO. OCC-A OHI 401H
Well Pad Name: OCC A OHI Pad

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 the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

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

#### 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 thing 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

API NO. 47-009 -

OPERATOR WELL NO. OCC-A OHI 401H

Well Pad Name: OCC A OHI Pad

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.

concreted in the state required by this subsection, the secretary if all lade the authority to propose for promalgation legislative rates confidently made indeed and rescodures regarding reuses of neighted, day and relating to delivery model and research relating to delivery to an action of the confidence and the proposed with the constant and the confidence and the confi

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WW-6A (8-13) API NO. 47-009 -

OPERATOR WELL NO. OCC-A OHI 401H

Well Pad Name: OCC A OHI 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 <a href="http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx">http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx</a> 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.

API NO. 47-009

OPERATOR WELL NO. OCC-A OHI 401H

Notary Public

Well Pad Name: OCC A OHI Pad

Notice is hereby given by:

Well Operator: SWN Production Co., LLC

Telephone: 304-884-1610 Email: Britteny\_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 <a href="mailto:depprivacyofficer@wv.gov">depprivacyofficer@wv.gov</a>.

JUSTIN BOOTH
Notary Public Official Seal
State of West Virginia
My Comm. Expires Mar 1, 2022
749 Richwood Ave. Apt. 5 Morgantown WV 26505

Subscribed and sworn before me this 17th day of Frequency 2022

My Commission Expires 3/1/2022

#### Attachment 13A

### OCC A OHI Pad - Water Purveyors w/in 1500'

Sources

Landowner

Barbara Shores

Address

1705 Point Run Road, Triadelphia WV 26059 2 Well

RECEIVED Office of Oil and Gas

APR 2 0 2022

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 entry	Requirement: Notice shall be provi	ided at least SEVEN (7) days but no more th	an FORTY-FIVE (45) days prior to
Date of Notice	ce: Date of Plan	med Entry:	
Delivery me	thod pursuant to West Virginia Co	ode § 22-6A-10a	
☐ PERSO	NAL E REGISTERED	☐ METHOD OF DELIVERY THAT R	PEOLIDES A
SERVIC		RECEIPT OR SIGNATURE CONFI	
on to the surf but no more to beneath such owner of min and Sediment Secretary, who	ace tract to conduct any plat surveys han forty-five days prior to such ent- tract that has filed a declaration purs erals underlying such tract in the con- t Control Manual and the statutes and	rior to filing a permit application, the operator required pursuant to this article. Such notice ry to: (1) The surface owner of such tract; (2) suant to section thirty-six, article six, chapter unty tax records. The notice shall include a six of rules related to oil and gas exploration and information, including the address for a web personner.	shall be provided at least seven days to any owner or lessee of coal seams twenty-two of this code; and (3) any statement that copies of the state Erosion production may be obtained from the
Notice is her	eby provided to:		
SURFA	CE OWNER(s)	COAL OWNER OR L	ESSEE
	f Commission Ohio County	Name: Alliance Resources GP, LLC	
	Chapline St., Suite 215	Address: 2596 Battle Run Road	
Wheeling, WV 260		Triadelphia, WV 26059	RECEIVED Office of Oil and Gas
Name:			
Address:		MINERAL OWNER(s	ALR CHILL
		Name: Board of Commission Chio	County
Name: Address:		Address: 1500 Chapline St., Suite	111
Address:		Wheeling, WV 26003  "please attach additional forms if r	Environmental Protection
		prease attach additional forms in a	become y
		otice is hereby given that the undersigned we	
County:	Ohio	Public Road Access:	Rodneys Point Run
District:	Liberty	Watershed:	Upper Ohio South
Quadrangle:	Valley Grove	Generally used farm name:	OGC-A
may be obtain	ned from the Secretary, at the WV D VV 25304 (304-926-0450). Copies	Manual and the statutes and rules related to epartment of Environmental Protection head of such documents or additional information wy gov/oil-and-gas/pages/default aspx.	quarters, located at 601 57th Street, SE,
obtained fron			
obtained from Notice is he	reby given by:	111	
obtained from Notice is he Well Operato	reby given by:  SWN PRODUCTION COMPANY, LLC	Address: 1300 Fort Pierpont Dr.	
obtained from	reby given by:	Address: 1300 Fort Pierpont Dr. Morganlown, WV 2856 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.

WW-6A4 (1/12)

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

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

Notice Time Date of Notic	Requirement: Notice shall be provided at l be: 02/23/2022 Date Perm	east TEN (10) days prior to filling a nit Application Filed:	permit application.
Delivery met	hod pursuant to West Virginia Code § 22	-6A-16(h)	
☐ HAND	■ CERTIFIED MAIL		
DELIVE		JESTED	
receipt request drilling a hori of this subsect subsection mand if availab	V. Va. Code § 22-6A-16(b), at least ten days ted or hand delivery, give the surface owner zontal well: Provided, That notice given put on as of the date the notice was provided to be waived in writing by the surface owner, facsimile number and electronic mail addressly provided to the SURFACE OWN.	or notice of its intent to enter upon the sursuant to subsection (a), section to the surface owner: <i>Provided</i> , hower. The notice, if required, shall includes of the operator and the operator	the surface owner's land for the purpose of en of this article satisfies the requirements wever. That the notice requirements of this aude the name, address, telephone number,
	Commission Chia County	Name:	APR 2 0 2022
	Chapline St., Suite 215	Address:	MIN O LOLL
Whee	eling, WV 26003	W. 114. 11. 11. 11. 11. 11. 11. 11. 11. 1	WV Department of Environmental Protection
State: County:	West Virginia Ohio	UTM NAD 83 Easting: Northing:	534,266.082 4,436,641.323
District:	Tridelphia	Public Road Access:	Roney Point Run Road
Quadrangle: Watershed:	Valley Grove, WV  Roney Point Run of Little Wheeling Creek of Wheeling Creek	Generally used farm name:	OCC-A OHI
This Notice Pursuant to Vacsimile num related to hor	Shall Include:  Vest Virginia Code § 22-6A-16(b), this number and electronic mail address of the optizontal drilling may be obtained from the Street, SE, Charleston, WV 25304 (30)	perator and the operator's authorize Secretary, at the WV Department of	ed representative. Additional information of Environmental Protection headquarters,
Vation is ha	reby given by:		
	F. SWN Production Company, LLC	Authorized Representative	Mike Yates
Address:	1300 Fort Pierpont Drive, Suite 201	Address:	1300 Fort Pierpont Drive, Suite 201
tudicas.	Morgantown, WV 26508	1100000	Morgantown, WV 26508
Telephone:	304-884-1714	Telephone:	304-884-1714
Email:	Michael Yates@swn.com	Email:	Michael Yales@swn.com
Facsimile:	The state of the supplemental is	Facsimile:	The second of th
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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 deprivacy officer@wv.gov.

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND CAS NOTICE OF WIENT TO DRILL

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## GB and Gas Trivacy Entice:

The Origin of On and Gar mocesses your personal information, act as more unitess and telephone auniter, as par et our regularry, and the personal information may be disclosed to either State aperture on third parties in the named ancest of branches on as a asoft o comply with cannoty or regulated requirements, metadice Frenchm of Information Aut requests. Our office will appropriately seem grown personal information. By our birds constructed for the eritors personal information pressed contact DEP's Chief Project Officer at the group of the Project Chief WW-6A5 (1/12)

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

Delivery met	hod pursuant to West Virginia (	Code § 22-	6A-16(c)		
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RETUR	RN RECEIPT REQUESTED	D.	ELIVERY		
return receipt the planned of required to be drilling of a d damages to th (d) The notice of notice.	requested or hand delivery, give to operation. The notice required by provided by subsection (b), section horizontal well; and (3) A propose the surface affected by oil and gas of	the surface y this subso on ten of the sed surface operations to given to the	owner whose lan ection shall includes is article to a sur- use and compen to the extent the domes are surface owner	d will be used for ide: (1) A copy face owner whose sation agreement amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing aff offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
(at the addres	s listed in the records of the sherif		e of notice):		
	Commission Ohio County	_	Name:		
	Chapline St., Suite 215	_	Addres	SS:	
State:	the surface owner's land for the p West Virginia	urpose of d	uTM NAD	Easting:	534,266.082
County:	Ohio			Northing:	4,436,641.323
District:	Tridelphia		Public Road		Roney Point Run Road
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Watershed:	Roney Point Run of Little Wheeling Creek of V	Theeling Creek			
Pursuant to V to be provide horizontal we surface affect information r	ed by W. Va. Code § 22-6A-10(t ell; and (3) A proposed surface use ted by oil and gas operations to the elated to horizontal drilling may located at 601 57 <sup>th</sup> Street, SE,	<ul> <li>to a surfer and comp</li> <li>he extent the obtainer</li> </ul>	face owner whose ensation agreement the damages are of d from the Secre-	e land will be ent containing a compensable und etary, at the WV	code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting <a href="https://www.dep.wv.gov/oil-and-department">www.dep.wv.gov/oil-and-department</a>
			Addisses		1000000
Wall Operate	I: SWN Production Company, LLC 304-884-1714		Address:	1300 Fort Plerpont	
				Morgantown, WV 2	5508
	Michael Yates@swn.com		Facsimile:		
Well Operato Telephone:	3007.1007.17.17				

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.

RECEIVED Office of Oil and Gas

APR 2 0 2022

Wy Department of Environ 05/27/2022

No. 2 to 10 pt 2 to 10 pt 10 p

# STATE OF WEST VERICED. DEFARTMENT OF ENVIRONSHENCY PROTECTED. OFFICE OF OB AND GAS NOTICE OF THE STERMINE STEPS.

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on a permit application, as specified mail, by cardired mail land will be used for the draing of a honorman well conce of scholer (1) A cost of this conce section (2) the inferred continuous and the specific particles are unaction with the remainfit machiner contains by arrest at a connection for a contains of the rest of the sheriff at the time of the address fisted is the near its of the sheriff at the time.	overor whose lead in a spanial to the constant to the cons	egitug bili sil silos edit yd to silos edit yd to silos edit silos silos openanos so enonenos so	equested on bond during your common the notice teapen and the context and (b), with the context and (c) A property souther and (c) A property souther and (c)	t Prevor manor go buraste odir god at brancogo al a bolgantico odi corossita o
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came address and religione munber, as part of our regulatory nebes to third parties in the pointal course of broatess or as e.g. Freedom of Information Act requests. Our office will as object our personal information, playe contact	oga, statě reda duli <b>o</b> m, strosti nitroup vrts . 7	nie Pakolikitzis Pir par igentiu Li 1974 - Genta	ine ræseseng seli line lið el gen aðsgamline lendæ el a litte stæmme og reg	cuttes Your property resident to con- representates



# WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

# **Division of Highways**

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

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

February 9, 2022

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 OCC-A Pad, Ohio County

OCC A OHI 401H Well Site

Dear Mr. Martin,

D. Alan Reed, P.E.

State Highway Engineer

This well site will be accessed from a DOH permit #06-2011-0363 which has been issued to Southwestern Energy for access to the State Road for a well site located off Ohio County Route 911 HARP MP 0.40.

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

Very Truly Yours,

Gary K. Clayton, P.E.

Day K. Clayton

Regional Maintenance Engineer Central Office O&G Coordinator

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

File

05/27/2022

Product Name	Product Use	Chemical Name	CAS Number
-303 (U.S. Well Services)	Mixture	Ethylene glycol Cinnamaldehyde	107-21 1
		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
actron K-139 (Champion Technologies)	Blocide	Glutara dehyde	111-30-8
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides Ethanol	68424-85-1 64-17-5
Bactron K-219 (Champion Technologies)	Biocide	Methanol	67-56-1
actron k-219 (Champion Technologies)	Biocide	Quaternary Ammonium Compounds, Benzyl-C12-15-Alkyldimethyl, Chlorides	68424-85-1
arboNRT	Tracer	Ceramic Proppant	66402-68-4
C6486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate	Proprietary
		Ethylene Glycol	107-21-1
C6734A (Champion Technologies)	Blocide	Hydrogen Peroxide	7722-84-1
		Acetic Acid	64-19-7
		Peroxyacetic Acid	79-21-0
cono-Cl200 (SWN Well Services)	Corrosion Inhibitor	Methanol Oxyalkylated fatty acid	67-56-1 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
copol-FEAC (SWN Well Services)	Iron Control	Acetic Acid	64-19-7
		Citric Acid	77-92-9
		Water	7732-18-5
DP-S1176-15 (Halliburton)	Friction Reducer	Polyacylate	Proprietary
	-4-1	Hydrotreated light petroleum distillate	64742-47-8
OJET DR900 LPP (SWN Well Services)	Friction Reducer	Distillates (petroleum) hydrotreated light	64674-47-8
		Ethylene Glycol  Alcohols C12-16 Experiented accompleted	107-21-1
		Alcohols, C12-16, Exoxylated propoxylated Fatty Alcohols ethoxylated	68213-24-1 Proprietary
		Water	Proprietary 7732-18-5
OJET DRP 1130X (SWN Well Services)	Friction Reducer	Proprietary	Proprietary
R-76 (Halliburton)	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
	, many neutroes	Inorganic Salt	Proprietary
YPTRON T-390 (Champion Technologies)	Scale Inhibitor	Methangl	67-56-1
	scare numeron	Nanylphenol Ethoxylate	Proprietary
AI-150E (Halliburton)	Corrosion Inhibitor	No hazardous substance	N/A
CL (SWN Well Services)	Hydrocholic Acld	Hydrochloric Acid	7647-01-0
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Water	7732-18-5
P-65 MC (Halliburton)	Scale Inhibitor	Organic phosphonate	Proprietary
		Ammonium Chloride	12125-02-9
PTI-FLEX (U.S. Well Services)	Viscosifying Agent	Distillates, petroleum, hydrotreated light	64742-47-B
exslick 930	Friction Reducer	Copolymer of 2-propenamide	Proprietary
		Hydrotreated Distillate	64742-47-B
		Sodium Chloride	7647-14-5
		Alcohols, C12-16, Exoxylated	68551-12-2
		Oleic Acid Diethanolamide	93-83-4
evellal of 2	Paratical P. 1	Ammonium Chloride	12125-02-9
exslick 953	Friction Reducer	Petroleum Distillate	54742-47-8
		Sodium Chloride	7647-14-5
		Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide	12125-02-9 93-83-4
exslick 957	Friction Reducer	Petroleum Distillate	64742-47-8
eneman dat	THE HOLL MEDICAL	Ammonium Chloride	12125-02-9
		Oleic Acid Diethanolamide	93-83-4
		Alcohols, C12-16, Exoxylated	68551-12-2
		Water	7732-15-5
lexslick 996	no data available	Copolymer of 2-Propeeramide	******
		Distillates (petroleum), hydotreated light	54742-47-8
		Alcohol Ethoxylate	*******
WAL HOME WIN TO THE		Surfactant	*******
/FRA-2000 (U.S. Well Services)	Anionic Friction Reducer	Hydrotreated light distillate (petroleum)	54742-47-8
and differential	* Internal	Propenoic acid, polymer with propenamide	9003-05 9
exald 655 NM exslick 922	Scale Inhibitor	Diethylenetriamine penta (methylene phosphonic acid)	15827-30-8
Council 265	no data available	Copolymer of 2-propenaminde Distillates (not release), hydrotreated light	69418-26-4
		Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI)	64742-47-8 12125-02-9
		Oleic Acid Diethnolamide	93-83-4
olcide 4Frac	Mixture	Phosphonium, tetrakis (hydroxymethyl), Sulfate	55566-30-8
		Quaternary ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
		Ethanol	64.17 F
olcide PS50A	Biocidal product	Ethanol Tetrakis (hydroxymethy ) phosphonium sulphate	64-17-5
	product	Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate	55566-30-8
		groups	397256-50-7
D-2950	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
		Ethoxylated alcohol	Proprietary
		Poly (oxy-1.2-ethanediyl) alphatridecylomegahydroxy-, branched	69011-36-5
	Scale Control	Methanol	67-56-1
gend LD-7750W			
gend LD-7750W C MX 8-4743		Phosphonic Acid Salt	Proprietary 7551 00 4



# OCC A OHI PAD "A" CONSTRUCTION AND RECLAMATION PLAN **AS-BUILT** TRIADELPHIA DISTRICT OHIO COUNTY, WV SHEET INDEX TS1. TITLE SHEET MAY 2017 EP2.1 EVACUATION ROUTE/PREVAILING WIND

**REVISED JUNE 2018** 

ORIGINAL LOD

TOTAL DISTURBED AREA: 17.9 ACRES ROAD DISTURBED AREA: 8.9 ACRES PAD DISTURBED AREA: 9.0 AGRES

REVISED LOD - JUNE, 2018

TOTAL DISTURBED AREA: 18.4 ACRES ROAD DISTURBED AREA: 9.4 ACRES PAD DISTURBED AREA: 9.0 ACRES

COORDINATES:

SITE ENTRANCE (NAD83) LAT 40.089299 LONG: 80.600353

CENTER OF PAD (NAD83) IAT 40.079288 LONG: 80,598094

GATHERING AREA (NAD83) LAT: 40.089299 LONG: 80.500353

EXISTING WELL 3H (NAD83) LAT: 40.079462 LONG: 80.598107 API NUMBER: 069-00137

EXISTING WELL 10H (NAD83) LAT: 40.079502 LONG: 80.598041 API NUMBER:069 00096

AS3.4 ASBUILT AS3.6 ASBUILT AS3.7 ASBUILT AS3 8 ASBUILT AS3.9 ASBUILT ASR4.1 ACCESS ROAD PROFILE ASR4.2 ACCESS ROAD PROFILE ASR4.3 ACCESS ROAD PROFILE MRD5.1 RECLAMATION PLAN OVERVIEW MRD5.2 RECLAMATION PLAN MRD5.3 RECLAMATION PLAN MRD5.4 RECLAMATION PLAN MRD5.5 RECLAMATION PLAN MRD5.6 RECLAMATION PLAN MRD5.7 RECLAMATION PLAN MRD5.8 RECLAMATION PLAN MRD58 RECLAMATION PLAN MRD5.9 RECLAMATION PLAN

MRD6.1 RECLAMATION DETAILS MRD6.2 RECLAMATION DETAILS

MRD6.3 RECLAMATION DETAILS

EP2.2 EVACUATION ROUTE/PREVAILING WIND

AS3.1 ASBUILT OVERVIEW

AS3.2 ASBUILT

AS3.3 ASBUILT

ENGINEER'S ESTIMATE OF QUAN	TITLES	
WELL PAD DATA		
DESCRIPTION	ESTIMATED QUANTITY	UNIT
24" MOUNTABLE BERM 5:1	35	LF
FILL FOR BERM 5:1	840	CF
EROSION & SEDIMENT CONTROL	TEMS	
DESCRIPTION	ESTIMATED QUANTITY	UNIT
ROCK LINED DITCH	50	L
CLASS C RIP RAP	68	TN
OUTLET PROTECTION/ROCK APRON SUMP	2	EA
OUTLET PROTECTION/ROCK APRON SUMP ROCK: CLASS C	2.4	TN
OUTLET PROTECTION/ROCK APRON SUMP ROCK: GEOTEXTILE	3.6	5Y
CUT FOR ABOVE GROUND STORAGE TANK	403	5Y
FILL FOR ABOVE GROUND STORAGE TANK	403	SY
UNDERDRAIN ITEMS		
DESCRIPTION	ESTIMATED QUANTITY	UNIT
3'X3'X3' CONCRETE CATCH BASIN	1	EA

REVISION	DEP REVISIONS	ADDED 20,000 BBL AST REVISED LOD	ADDED TOPOGRAPHY AROUND AST		
DATE	6/28/17	91710	\$130.18		
ý	41	24			

2017-05-16 CHECKED BY

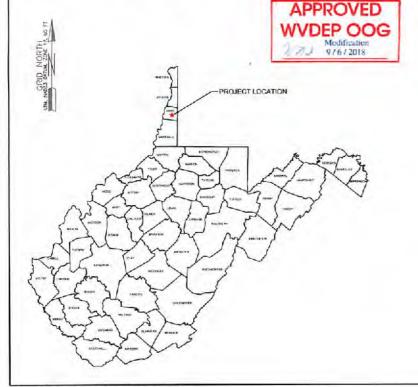


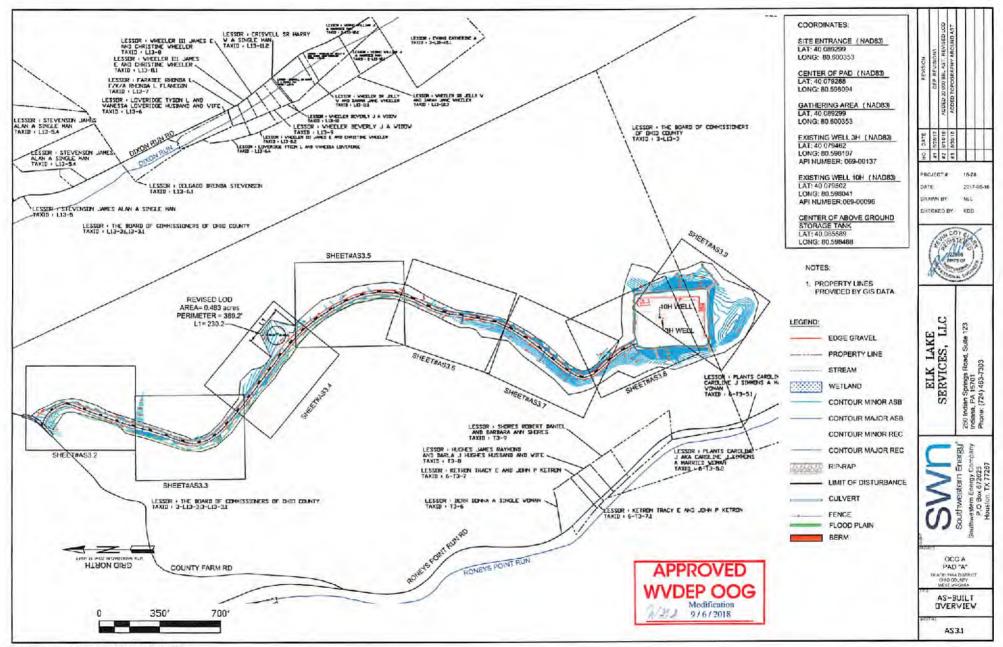
ELK LAKE SERVICES, LLC

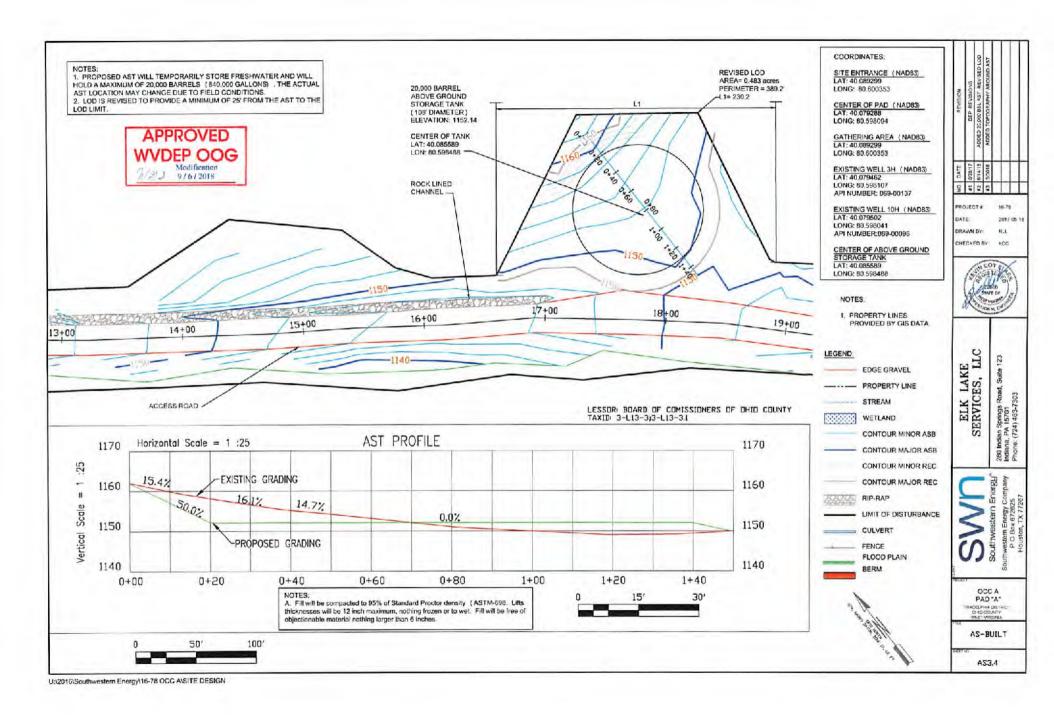
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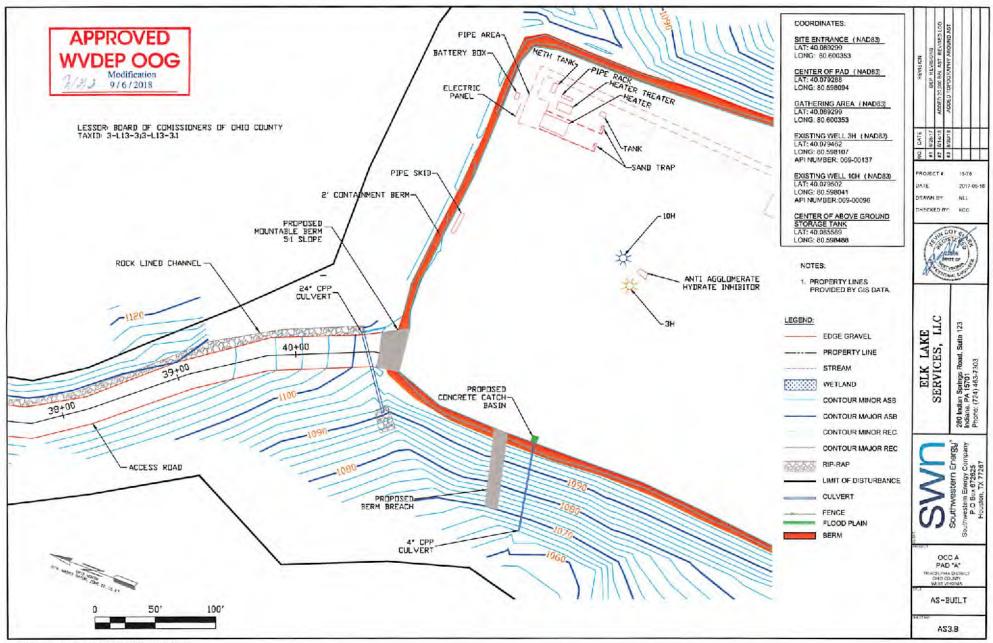
TITLE SHEET

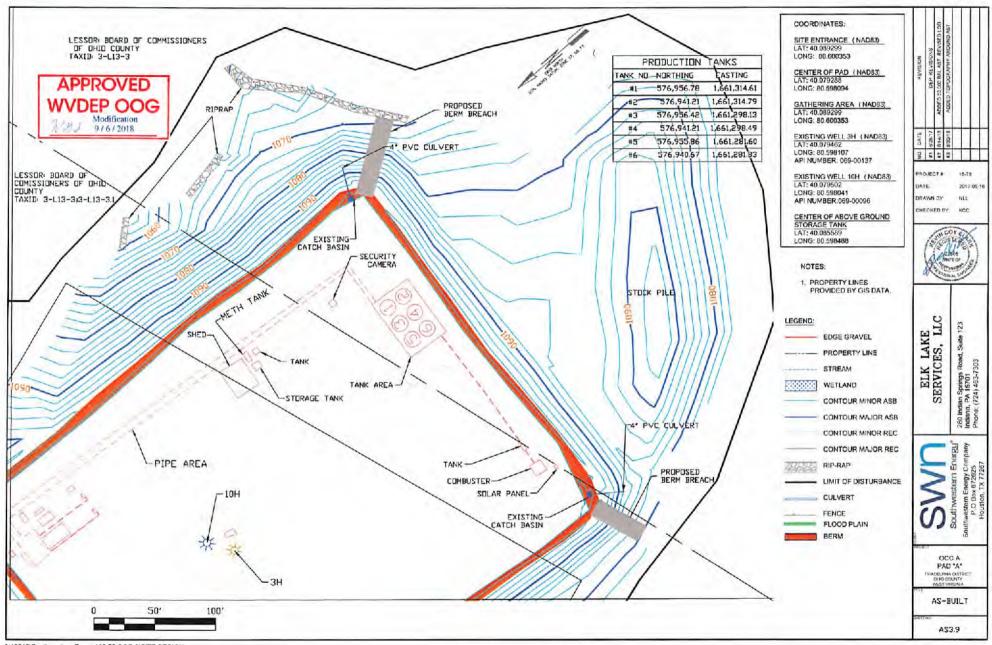
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1"=1000"

# OCC A OHI PAD "A" CONSTRUCTION AND RECLAMATION PLAN AS-BUILT

TRIADELPHIA DISTRICT OHIO COUNTY, WV MAY 2017

SHEET INDEX TS1. TITLE SHEET

EP2.1 EVACUATION ROUTE/PREVAILING WIND EP2.2 EVACUATION ROUTE/PREVAILING WIND

AS3.1 ASBUILT OVERVIEW

AS3.3 ASBUILT AS3.4 ASBUILT

AS3.6 ASBUILT

AS3.7 ASBUILT

AS3.8 ASBUILT AS3.9 ASBUILT

ASR4.1 ACCESS ROAD PROFILE ASR4.2 ACCESS ROAD PROFILE

ASR4.3 ACCESS ROAD PROFILE

MRD5.4 RECLAMATION PLAN

MRD5.6 RECLAMATION PLAN

MRD5.8 RECLAMATION PLAN

MRD6.3 RECLAMATION DETAILS

MRD5.8 RECLAMATION PLAN MRD5.9 RECLAMATION PLAN MRD6.1 RECLAMATION DETAILS MRD6.2 RECLAMATION DETAILS

# PROJECT LOCATION

### LOD

TOTAL DISTURBED AREA: 17.9 ACRES PAD DISTURBED AREA: 3.0 ACRES

### COORDINATES:

SITE ENTRANCE (NAD83) LAT: 40.089299 LONG: 80.600353

CENTER OF PAD (NAD83) LAT: 40.079288 LONG: 80.598094

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WELL PAD DATA		
DESCRIPTION	ESTIMATED QUANTITY	UNIT
24" MOUNTABLE BERM 5:1	35	LF
FILL FOR BERM 5:1	840	CF
EROSION & SEDIMENT CONTROL I	TEMS	
DESCRIPTION	ESTIMATED QUANTITY	UNIT
ROCK UNED DITCH	50	LF
CLASS C RIP RAP	68	TN
DUTLET PROTECTION/ROCK APRON SUMP	2	EA
OUTLET PROTECTION/ROCK APRON SUMP ROCK: CLASS C	2.4	TN
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UNDERDRAIN ITEMS		
DESCRIPTION	ESTIMATED QUANTITY	UNIT
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ENGINEER'S ESTIMATE OF QUANT	TITIES	
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OUTLET PROTECTION/ROCK APRON SUMP ROCK: GEOTEXTILE	3.6	SY
UNDERDRAIN ITEMS		
DESCRIPTION	ESTIMATED QUANTITY	UNIT
B'X3'X3' CONCRETE CATCH BASIN	1	EA



PROJECT # DATE:

DRAWN BY: CHECKED BY: MCH.



ELK LAKE SERVICES, LLC

PAD "A" TRIADELPHIA DISTRICT

TITLE SHEET

TSI