

#### 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 16, 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 201H 47-069-00341-00-00

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 201H

Farm Name: BOARD OF COMMISSIONER

U.S. WELL NUMBER: 47-069-00341-00-00

Horizontal 6A New Drill Date Issued: 5/16/2022

API Number:	
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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. Failure 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.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the easing 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.

API NO. 47- 009 -	
OPERATOR WELL NO.	OCC-A OHI 201H
Well Pad Name: DCC A	OHI Pad

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

			1	
1) Well Operator:	SWN Production Co., LL		069-Ohio	7-Triade 648-Valley Groev
		Operator ID	County	District Quadrangle
2) Operator's Well	Number: OCC-A OHI 201	H Well P	ad Name: OCC	C A OHI Pad
3) Farm Name/Sur	face Owner: Board of Commissioners	Ohlo County Public Re	oad Access: Ro	odneys Point Run
4) Elevation, curre	nt ground: 1095'	Elevation, propose	d post-construc	tion: 1095'
5) Well Type (a)	Gas X Oil	Un	derground Stora	age
Ot	her			
(b)	)If Gas Shallow X	Deep		
	Horizontal X			1/3/2 3/3/2002
6) Existing Pad: Y	es or No Yes			tille 3/3/2
7) Proposed Targe	t Formation(s), Depth(s), An	ticipated Thickness	and Expected 1	Pressure(s):
Target Formation- Mare	cellus, Up-Dip well to the North, Target To	p TVD- 6184', Target Base	TVD- 6245', Anticipate	ed Thickness- 61', Associated Pressure- 4065
8) Proposed Total	Vertical Depth: 6225'			
9) Formation at To	otal Vertical Depth: Marcel	lus		
10) Proposed Total	1 Measured Depth: 24336'			
11) Proposed Horis	zontal Leg Length: 15,172	.05'		
12) Approximate F	Fresh Water Strata Depths:	393' , 432'	see 47-	069-00241 WR-35
13) Method to Det	ermine Fresh Water Depths:	Deepest Nearby	Water Well	* USE DATA
14) Approximate S	Saltwater Depths: 586'- Sali	nity Profile		FROM WR-35
15) Approximate C	Coal Seam Depths: 462', 5	00' see 47-0	69-00741 WR	47-065-00241 -35
16) Approximate I	Depth to Possible Void (coal	mine, karst, other):	None that we	are aware of.
	well location contain coal so or adjacent to an active mine		N	o X
(a) If Yes, provid	e Mine Info: Name:			
7.4	Depth:			
	Seam:			
	Owner:			
	20,000,000			

API NO. 47- 009

OPERATOR WELL NO. OCC-A OHI 201H 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 3/8"	New	17-40	48#	532'	532' /	513 SX/CTS
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	1870'	1870' /	805 sx/CTS
Production	5 1/2"	New	P-110 HP	23#	24,336'	24,336'	Tail 4715xc/100 treside 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"	0.360	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							

#### **PACKERS**

Kind:		
Sizes:		
Depths Set:		

WW-6B	
(10/14)	

API NO. 47- 009
OPERATOR WELL NO. OCC-A OHI 201H
Well Pad Name: OCC A OHI Pad

19	Describe i	proposed well	work.	including th	ne drilling and	plugging	back of	any pile	ot hole:

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

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

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

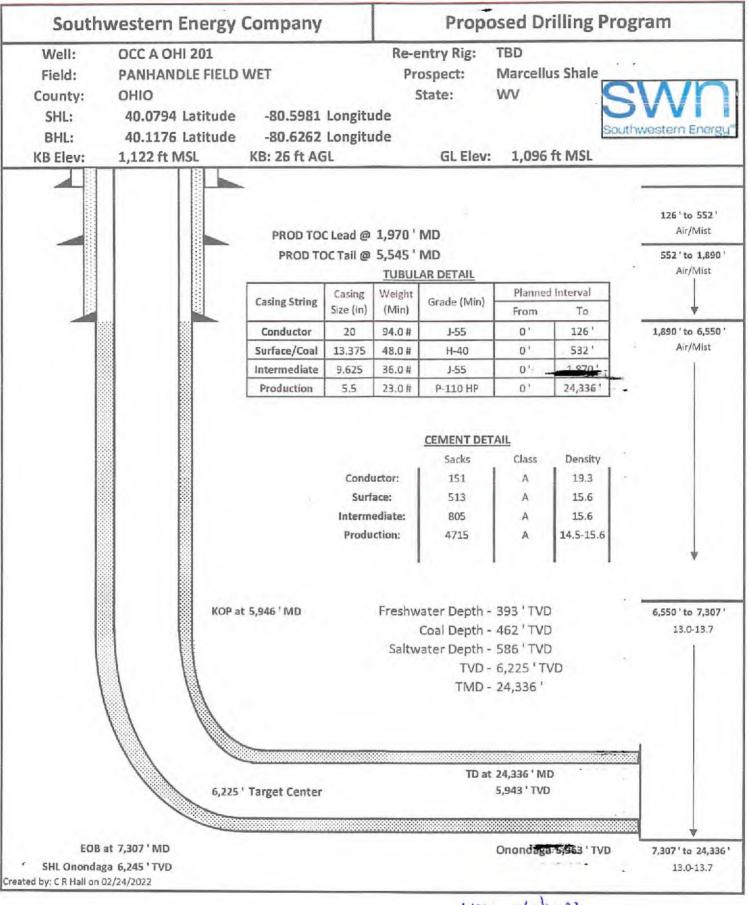
See Attachment \*\*\*

#### 25) Proposed borehole conditioning procedures:

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

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

			CEMENT /	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	> <	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
	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
			CJ111	ACCELERATOR	SODIUM CHLORIDE	7440-23-5
- 1	><	SS-11W	C1880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4
	D047	FP 28L	$\times$	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
101	> <	> <	CJX157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
	><	$\supset \subset$	CJ540	HP FLUID LOSS ADDITIVE	ALIPHATIC AMIDE POLYMER	PROPRIETAR
PRODUCTION	D255	$\supset \subset$	$\times$	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	> <	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





SWN Production Company, 11C 1300 Fort Pierpont Dr, Ste 201 Morgantown, WV 28508 Tet 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 201H

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,

Suttany Woody

Brittany Woody

Senior Regulatory Analyst

Southwestern Energy Production Company, LLC



API Number 47	069	•
Operator	de Well No	DCC V DHI 304H

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

#### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Will a pit be used? Yes No site and system be used? If so, describe: Yes See Attachment SA  Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc	Operator Name SWN Production Co., LLC OP Code 494512924	
Will a pit be used? Yes No Will a synthetic liner be used in the pit? Yes No Will a synthetic liner be used in the pit? Yes No Will a synthetic liner be used in the pit? Yes No Will a synthetic liner be used in the pit? Yes No Will a synthetic liner be used in the pit? Yes No Will a synthetic liner be used. Application  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. Notation and the pit and plan to solidify what medium will be used? (cement, lime, sawdust)  If oil hased, 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. Innoffill  If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)  Landfill or offsite name/permit number? Massawill synthetic Octors synthetic Octors synthetic County 1021  Apax Sanitary Landfill Up-U8438, Brooke Cos SWN-1013.  Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.  I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application from and all attachments therete and that, based on my inquiry of those individuals immediately responsible for obtaining the information	Watershed (HUC 10) Roney Point Run of Little Wheeling Creek Quadrangle Valley Grove	
If so, please describe anticipated pit waste:  Will a synthetic liner be used in the pit? Yes	Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes	No _
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 Off Site Disposal (Supply form WW-9 for disposal location) Offset Disposal (Supply form WW-9 for disposal location) Other (Explain, recovery and solidification on sita Will closed loop system be used? If so, describe: Yes-Seo Atlachment 3A  Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Action in the second of this well (vertical and horizontal)? Air, freshwater, oil based, etc. Action in the second in drilling medium? Atlachment 38  Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Inndfill  -If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)  -Landfill or offsite name/permit number? Meadowid 9W-1012, Short Creak 8W-1014 Carbon Limeatone MSWL018781, Weevel County 1021  APOR Saintary Landfill be-U-043-3b, BroOke Use SWVP-1013.  Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.  I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. Lunderstand that the provisions of the permit are chorecable by Jaw. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.  I certify that I understand and agree to the terms and conditions of the general permit and/or other applicable law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information su	Will a pit be used? Yes No ✓	
Proposed Disposal Method For Treated Pit Wastes:  Land Application Underground Injection (UIC Permit Number Various Approvad Facilities Reuse (at API Number Althomotandeplate 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, fireshwater, oil based, etc.  -If oil based, what type? Synthetic, petroleum, etc. Synthede Oil Base Additives to be used in drilling medium? Alluchment 3B  Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Inndfill  -If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)  -Landfill or offsite name/permit number? Mediconial SWF-101.3, Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.  I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit androfor other applicable law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information. Delieve that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.  Company Official Signature  District Medical Seal State of West Virginia Seal	If so, please describe anticipated pit waste:	
Land Application  Underground Injection (UIC Permit Number Various Approved Facilities  Reuse (at API Number Authorized adaptated 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-Seo Attachment 3A  Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.  -If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Base  Additives to be used in drilling medium? Alluchment 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? Medsconti SWF-1022, Sent Crost SWF-1094 Carbon Limestone MSWL018781, Wetzel County 1021  Apex Santiary Landfill Ub-108436, Brooke CosWF-1U13,  Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided written of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, believe that	Will a synthetic liner be used in the pit? Yes No ✓ If so, what ml.?	
Underground Injection ( UIC Permit Number Various Approved Facilities Personal Reuse (at API Number Auto mod anticipation well Off Site Disposal (Supply form W-9 for disposal location)  The Company of Site Disposal (Supply form W-9 for disposal location)  The Other (Explain recovery and solidification on site of Site Disposal (Supply form W-9 for disposal location)  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.  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., Isnoffill  If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)  -Landfill or offsite name/permit number? Meadowill SWF-1032, Short Creek SWF-1034 Carbon Limeatone MSWLO1678, Wetzel County 1021  Apex Sanitary Landfill Ub-U8436, BTOOKE U. SWF-10113, Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.  I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August I, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by Jaw. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this applicant form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, ib believe that the i	Proposed Disposal Method For Treated Pit Wastes:	
Reuse (at API Number A Denous anticipative well Off Site Disposal (Supply form WW-9 for disposal location)  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.  **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.  **Inordial** -If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)  -Landfill or offsite name/permit number? **Mendedwill SWF-1022. Short Create SWF-16M Carbon Limeatone MSWL0-18781, Webzel County 1021  APEX Sanitary Landfill Ub-US4-38, BTOOKE CO SWF-1013,  Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.  I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application from and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, in believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.  Company Official Tiple Senior Regulatory Analyst  Subscribed and swom		
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. Access 100 to 10		
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. Anticon and Solid bear No. 1 of 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? Meadowill SWF-1022. Shot Creak SWF-1034 Carbon Limestone MSWLD18781, Webzel County 1021  Apex Sanitary Landfill Ub-108438, Brooke Co SWF-1013,  Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.  I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, including the possibility of fine or imprisonment.  Company Official Title Senior Regulatory Analyst  Subscribed and sworn before me this 17th day of FeBruncy 20 A  Notary Public Microsity Robbic Official Seal		)
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. Month 100 Nation	Other (Explain recovery and solidification on site	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.    Additives to be used in drilling medium?   Altechment 38		
-If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Base  Additives to be used in drilling medium? _Attachment 5B  Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etclandfill  -If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)  -Landfill or offsite name/permit number? _Meadewill SWF-1032. Shent Creek SWF-1034 Carten Limestone MSWL018781, Wetzel County 1021  Apex Sanitary Landfill Ub-U8438, Brooke Uo SWF-1013,  Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.  I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. Lunderstand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penaltics for submitting false information, including the possibility of fine or imprisonment.  Company Official Signature August May	Will closed loop system be used? If so, describe: Yes- See Attachment 3A	
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?   Meadowill SWF-1032, Short Creak SWF-1034 Carbon Limestone MSWL018781, Wetzel County 1021  ADEX SAINITARY LANGTHII Ub-U8438, BTOOKE CO SWF-TUT3, Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.  I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, including the possibility of fine or imprisonment.  Company Official Signature   Senior Regulatory Analyst   Senior Regulatory Analyst    Subscribed and sworn before me this   17+h   day of   FERMANY   20 23    Notary Public   Senior Regulatory Analyst   State of West Virginia   S	Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etcArane to KO	P, fluid drill with SOBM from KOP to TD
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc.   landfill	-If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Base	
-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 Creak SWF-1034 Carbon Limestone MSWL018781, Wetzel County 1021  Apex Sanitary Landfill Ub-U8438, Brooke Co SWF-1UT3,  Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.  I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.  Company Official Title Senior Regulatory Analyst  Subscribed and sworn before me this 17th day of Federatory 2007.  Notary Public Official Seal State of West Virginia State of West Virginia	Additives to be used in drilling medium? Attachment 3B	
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Notary Public State of West Virginia	on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protect provisions of the permit are enforceable by law. Violations of any term or condition of the general permit law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the infor application form and all attachments thereto and that, based on my inquiry of those individuals important the information, I believe that the information is true, accurate, and complete. I am aware penalties for submitting false information, including the possibility of fine or imprisonment.  Company Official Signature Brittany Woody  Company Official (Typed Name) Brittany Woody	ion. I understand that the it and/or other applicable mation submitted on this nediately responsible for
Notary Public State of West Virginia	Subscribed and sworn before me this 17th day of Francisco 20.21	
State of West Virginia	1. 1.	
	My commission expires 3/2/2023	

Proposed Revegetation Treatment: Acres Disturbed	17.9	Prevegetation pl	1
Limeas determined by pH test min.2 Tons/acre or to corr	ect 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
Attach: Maps(s) of road, location, pit and proposed area for la provided). If water from the pit will be land applied, in acreage, of the land application area. Photocopied section of involved 7.5' topographic shee	nclude dimensions (L	engineered plans inclue x W x D) of the pit, and	ding this info have been I dimensions (L x W), and
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#### Attachment 3A

#### CLOSED LOOP SYSTEM

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

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

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

#### AIR DRILLING INTERVALS

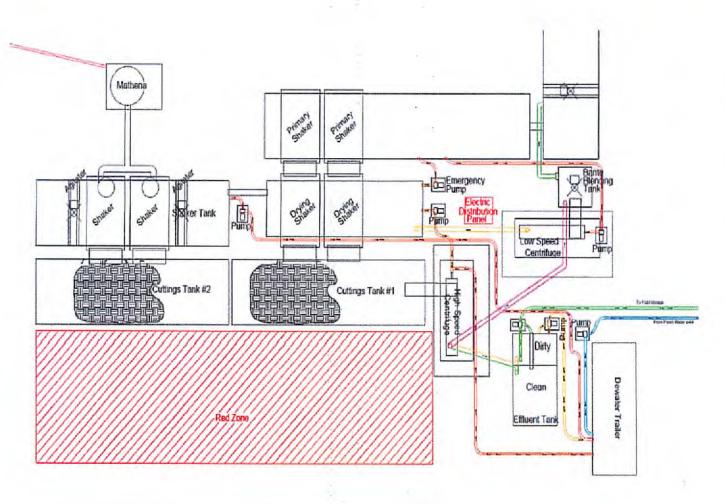
During air drilling operations, flow from the rig will pass down the flowline to the Shale Gas Separater (sometimes called a methane) where gas and liquids/solids are separated. Gas is sent to the flare scrubber tank and is flared at the flare stack. Solids and fluids pass across a shaker system to separate solids it of liquids. Solids pass into the cuttings tanks where they are captured for drying and hauloff to an approped 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**

# 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** 

Rev. 6/11/2018 05/20/2022



#### **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				
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:

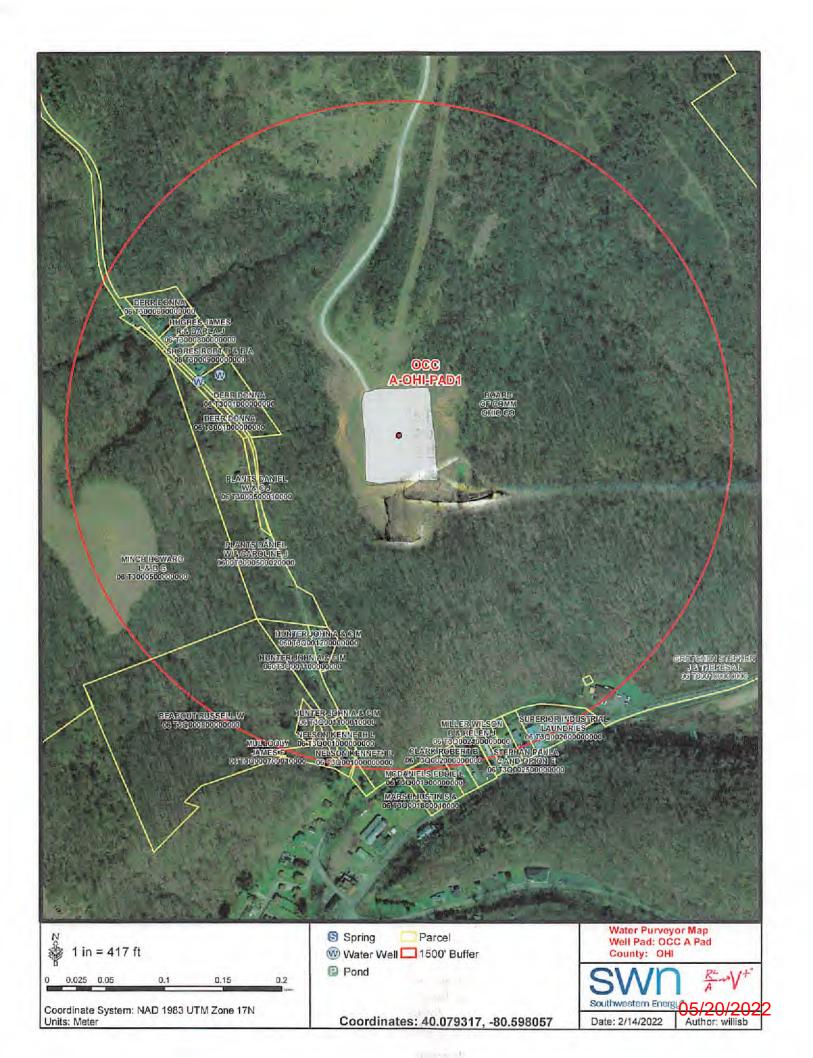
Every 622 linear feet in a 70' ROW/LOD, you should be using (2) 50lb bags of seed, (4) 50lb bags of fertilizer and (80) 50lb bags of Lime (2x seed in winter months + 50lb Winter Wheat/ac).

#### 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.

ORGANIC PROPERTIES				
Seed Mixture: SWN Production Organ	nic 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



# MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN

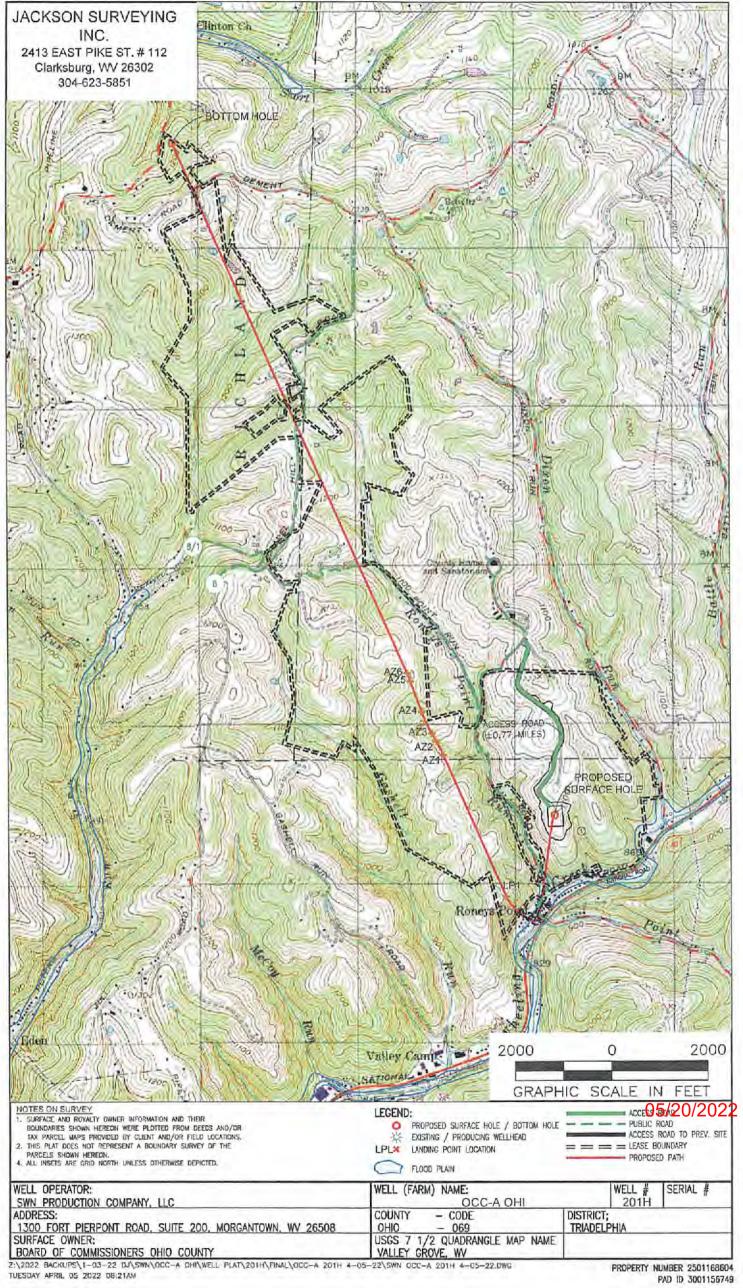


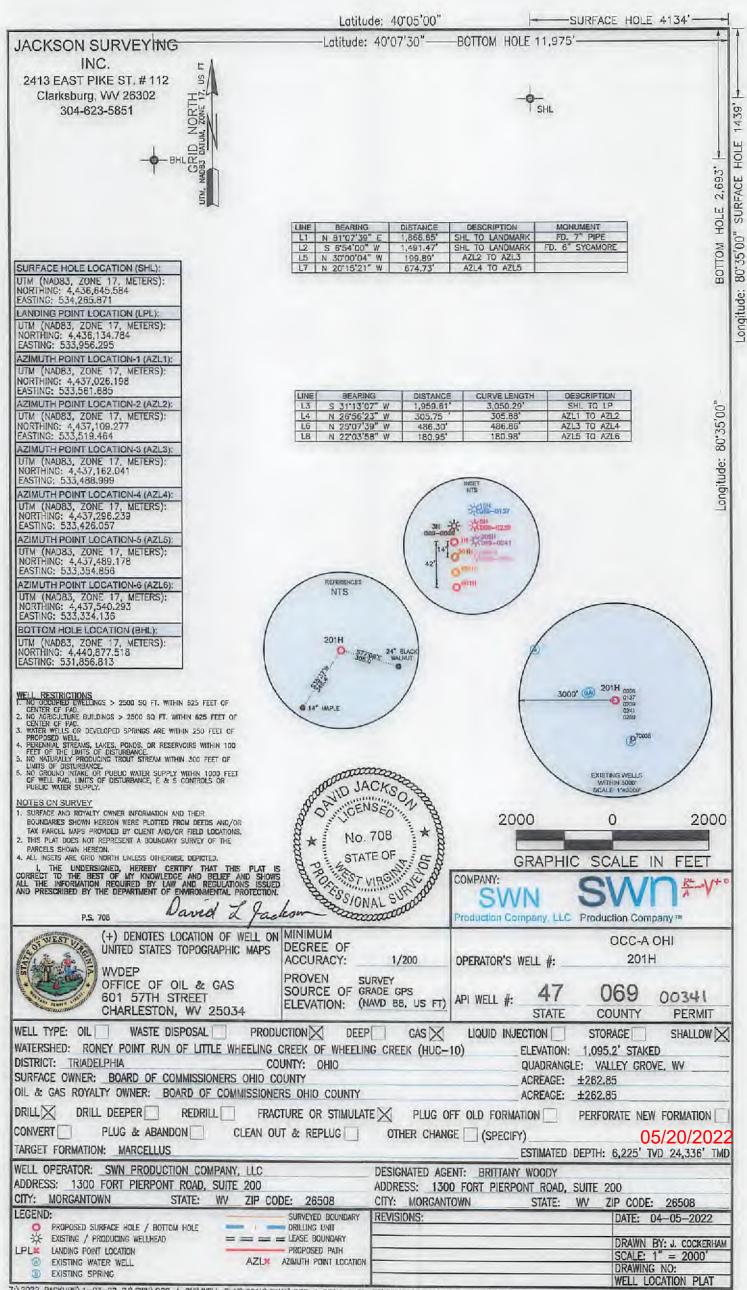
SWN Production Company, LLC 1300 Fort Pierpont Drive, Suite 201 Morgantown, West Virginia 26508

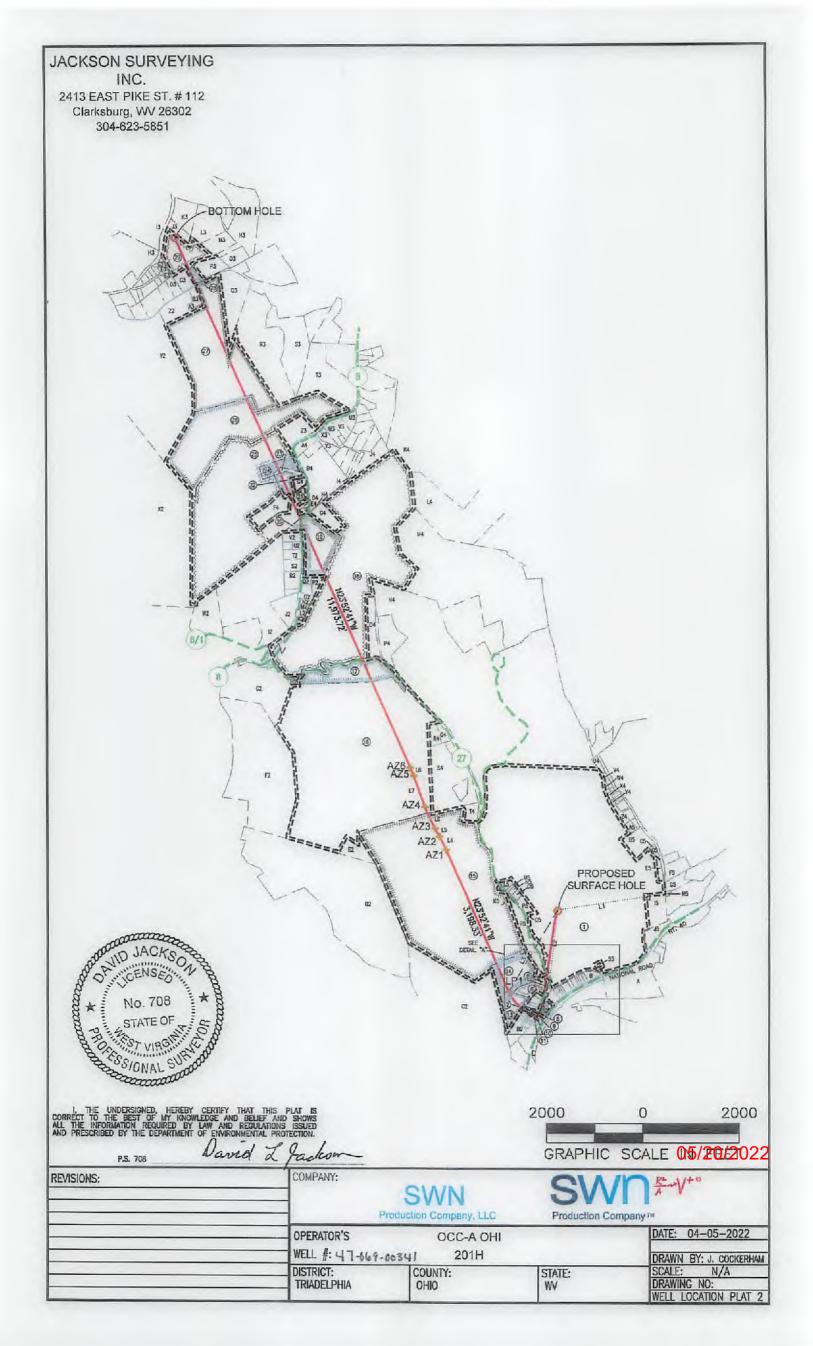
API NO. 47-XXX-XXXXX
WELL NAME: OCC A OHI 201H
Valley Grove QUAD
Triadelphia DISTRICT
OHIO COUNTY, WEST VIRGINIA

Submitted by:	
Name: Brittany Woody Suttany Woody	Date: <u>2/15/2022</u>
Title: Senior Regulatory Analyst	SWN Production Co., LLC
Approved by:	
Name: Ham Hah	Date: 3/6/2020
Title: Inspect	_
Approved by:	
Name:	Date:
Title:	

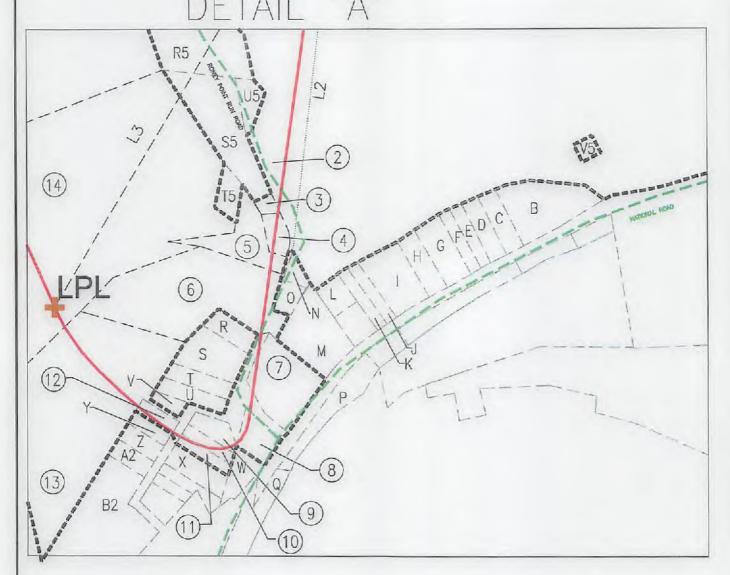
SWN PRODUCTION COMPANY, LLC - CONFIDENTIAL







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





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

P.S. 708 Warred d	factor			05/20/2022	
REVISIONS:	COMPANY:	SWN Production Company, LLC	SV. Production Co	W A V + 0 tion Company™	
	OPERATOR'S WELL #: 47-0	OCC-A OHI		DATE: 04-05-2022 DRAWN BY: J. COCKERHAM	
	DISTRICT: TRIADELPHIA	COUNTY: OHIO	STATE: WV	SCALE: N/A DRAWING NO: WELL LOCATION PLAT 3	

### JACKSON SURVEYING INC.

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

	WELL BORE TRACTS	
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	BOARD OF COMM OHIO CO (S/R)	3-L13-3
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	WV DEPARTMENT OF HIGHWAYS (S)	RT. 27
3	HUNTER JOHN A & C M (S)	6-T3Q-11.1
4	NELSON KENNETH L (S)	6-T3Q-10
5	MULLOOLY JAMES F (S)	6-T3Q-7.1
6	FISCHER PAMELA (S)	6-T3Q-6
7	MARQUART GREGORY F & LA; MARQUART PHILLIP J & K L (S)	6-T3Q-15
8	KOPYAR JERRY L & CYNTHIA L (S)	6-T8C-7
9	PRICE JOSEPH S JR & K M (S)	6-T8C-5
10	COFFIELD RHONDA L (S)	6-T8C-4
11	ANDERSON T VERNON & DILLE B L (S)	6-T8C-3
12	PACK AUSTIN M(S)	6-T8B-7
13	PARSONS JOSEPH L & SALLY (S)	6-T3P-1
14	BEABOUT RUSSELL W (S)	6-T3Q-8
15	MINCH TIMMY B & AMY LYNN (S)	6-T3-5
16	OGLEBAY FOUNDATION PROPS INC ANNA C MAXWELL REV TRUST (S)	3-L13-1
17	MAXWELL JOSEPH E ANNA C MAXWELL REVOCABLE TRUST (S)	3-L13-1.2
18	LUCHETTI ROBERT R SR - TOD (S)	3-L10-23
19	A D BAKER HOMES INC (S)	3-L10-19.4
20	A D BAKER HOMES INC (S)	4-R15-26
21	A D BAKER HOMES INC (S)	3-L10-19
22	PORTER MARK E & BARBARA V (S)	4-R15-25.3
23	PORTER MARK E PORTER BARBARA V (S)	4-R15-25.4
24	PORTER SANDRA K - TOD (S)	4-R15-25.5
25	PORTER SANDRA K (S)	4-R15-25
26	GOMPERS EDWARD D AND LINDA M (S)	4-R15-25.1
27	SIXTY FOUR LLC (S)	4-R15-21
28	DUNAWAY MEGAN R & BENJAMIN J (S)	4-R12-47.1
29	WEISS ROBERT LAND PATRICIA J IRREVOCABLE TRUST (5)	4-R12-46

#### JACKSON SURVEYING INC. 2413 EAST PIKE ST. # 112

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

ADJOINING OWNERS TABLE					
TRACT	SURFACE OWNER	TAX PARCEL			
A	GARRISON MELODY	6-T3-33			
В	SUPERIOR INDUSTRIAL LAUNDRIES INC	6-T3Q-26			
C	STEPHAN PAULA CAND ORION E	5-T3Q-25			
D	FISHER LOGAN I	5-T3Q-24			
E	CLARK ROBERT B & EVELYN M	6-T3Q-23			
F	SWAIN MARVIN H& K L	6-T3Q-22			
G	PHKILC	6-T3Q-21			
H	HAMMONS TAMMY M	6-T3Q-20			
1	MCDANIELS EDDIE L MCDANIELS TRACY L	6-T3Q-19			
1	P-3 EQUITIES LLC	6-T3Q-18.1			
K	FLACK HOLLY M	6-T3Q-18			
L	MCKENNEN JOSEPH A HI	6-T3Q-17			
M	VALLEY COIN MACHINE COMPANY LLC	6-T3Q-16			
N	BOARD OF COMM OHIO CO	6-T3Q-13			
0	FISCHER DONALD R JR	6-T3Q-7.2			
P	PHKILC	6-T8-54			
0					
	LINDHEIMER KENNETH	6-T8-54.1			
R	HARVATH PATRICIA H	6-130-4			
5	HOWARD DANIELK; HOWARD EJ HOWARD D; HOWARD A J	6-T3Q-4.1			
T	VELAS JEREMY L & CARRIEL	6-T3Q-3			
U	YAHN MARY E & RAYMOND C	6-T3Q-2			
W	PACK AUSTIN M	5-T3Q-2.1			
-	LINDHEIMER KENNETH A - TOD	6-T8C-6			
X	ANDERSON T VERNON & DILLIE B L	6-T8C-2			
Y	LANGWYER KEYA FAWN	6-T8B-6			
Z	HALEY ROBERT M & MICHELLE L HALEY	6-T88-4.1			
A2	NASH JOHN R JR & PAMELA L	5-T8B-4			
82	PARSONS JOSEPH L & SALLY	6-788-1			
C2	CROW RAYMOND E	6-78-7			
D2	SCOTT PAUL R & JOYCE A	6-T3-3			
E2	HATCHER EDWARD A	3-113-1.5			
F2	MILLER FAMILY TRUST	4-R18-11			
G2	LUCHETTI ROBERT R JR & TERESA	4-R18-29			
H2	OGLEBAY FOUNDATION PROPS INC MAXWELLANNA CREV TRUST	3-1.13-1.1			
12	LUCHETTI ROBERT R SR - TOD	4-R15-28			
12	LUCHETTI ROBERT R SR - TOD	4-815-28.4			
K2	MILLER CALVIN F & B J	4-L10-25.1			
12	MILLER WILSON B	4-L10-25			
M2	MILLER CALVIN F & BARBARA J	3-1.10-25.5			
N2	MATTERN KENNETH MARK MATTERN DANA ANN	3-L10-25.4			
02	CAREY WAYNE L	4-L10-25.3			
P2	WOOD MATHEW J & MARIA M	3-L10-25.7			
Q2	BAIER MARK T SR & DARLENA M	3-L10-25.6			
R2	WOOD MATHEW J	4-R15-28,3			
52	ROGERSON RONALD EDWIN	4-R15-28.1			
T2	NEUMANN KARENJENINE	4-R15-28.7			
U2	DIBARTOLOMEO ROBERT A	4-R15-33.1			
V2	SIMONS WILLIAM IR & THERESA M	4-R15-26.2			
W2	VESPA JOSEPH L	4-R15-28.2			
X2	NICHOLS RE3/BINT, BLSNAPP 3/BINT & MCNICHOLS 1/4INT	4-R15-16			
Y2	YOUNGTRAVIS & MICHELLE E	4-R15-19			
72	DICKINSON JAIVES F; ET AL	4-R15-23			
A3	DICKINSON DANIELWJR	4-R15-21.2			
B3	DICKINSON DANIEL W JR & G K	4R15-21.1			
C3	MCCULLEY BRIANG	4-R12-47.2			
03	SHACKELFORD HOWARD L & B M	4-R15-20.5			
E3	WINKLER JONATHAN JOEL	4-R12-10.8			
FB	WINKLERJONATHAN JOEL & JENNA NICOLE LINTON	4-R12-10			
G3	FRANKLIN WOODS ESTATES HO MED WINERS ASSC INC	4-R12-10.11			
H3	MULL W QUAY II TRUST	4-R12-10.14			
13	MULL W QUAY II TRUST				
13	LASURE BENJAMIN & SHANDA	4-R12-12			
K3	LASURE BENJAMIN & SHANDA	4-R12-46.1			
144	CHOOK CONTINUE OF STRAIN	4-R12-45,12			

ADJOINING OWNERS TABLE				
RACI	SURFACE OWNER	TAX PARCE		
13	TARR CHRISTOPHER & CHRISTINE	4-R12-45.14		
МЗ	WEISENBORN KERRIE C/O FOX STEPHEN R	4-R12-45.15		
N3	TARR JOHN A IV	4-R12-45		
03	FLANAGAN JILL E & JOSEPH V JR	4-812-45.4		
P3	FLANAGAN JILL E & JOSEPH V JR	4-R12-47		
Q3	WITSBERGER AMY LISBETH	4-R15-22		
R3	TEMPLETON JOHN J DR & LISA J CO-TRUSTEES	4-R15-23.3		
53	REGAN CHRISTOPHER J & HILARY E	4-R15-23.4		
T3	KOWCHECK DRAKE M & CAITLIN	4-R15-25.6		
Ü3	HARRIS RICHARD D& PATRICIA	3-110-17.2		
V3	VAN DUSEN JOHN MIL & VAN DUSEN AMANDA RAE	3-L10-17.1		
W3	DERROW STEPHEN J	3-110-17.4		
ХЗ	HERCULES EUGENE & CARMELINDA S	3-1.10-18		
V3	HUFFNER EARL P	3-L10-17.12		
73	MARRINER ROBYN LEE	3-L10-51		
A4	WHITE KRISTIAN E & NICOLER	3-110-19.1		
B4	WHITE KRISTIAN E & NICOLER	3-L10-19.3		
C4	HAMMERQUIST KAREN L	3-L10-52		
D4	KOCH MARY C	4-110-21		
E4	KOCH MARY C	4-110-22		
F4	SMITH PRESTON T & SARAH 1	3-110-19.6		
G4	LUCHETTI ROBERT R IR & TERESA	3-110-19.5		
H4	WHITE KRISTIAN E & NICOLER	3-L10-23.2		
14	MACNEALY JON A & MACNEALY KAREN L	3-L10-17.13		
14		3-L10-17.16		
K4	PALMER LOUIS III			
14	WALTERS GLEN L.B. R.S.	3-L10-28		
_	BYRUM CAROLYN LOUSTAU	3-110-27.3		
M4	ABRAHAM THOMAS R & S O	3-L10-25		
N4	BOARD OF COMM OHIO CO	3-113-3.1		
04	WEIR ROBERT AND BRIDGET	3-L10-23.1		
P4	OHIO COUNTY COMMISSION	3-L10-23.3		
Q4	BENNETT JEFFREY R	3-L13-2.2		
R4	WALTON LISA	3-L13-2.3		
S4	MINCH TIMMY BE AMY LYNN	3-113-2		
T4	SHELLER CARL)	3-L13-24		
U4	STEVENSON KIMBERLY;STEVENSON JAMES;DELGADO BRENDA STEVENSON	3-113-6.1		
V4	LOVERIDGE TYSON L & VANESSA	3-113-6		
W4	LOVERIDGE TYSON L & VANESSA	3-113-6.4		
X4	WHEELER JAMES E III WHEELER CHRISTINE	3-113-8.2		
Y4	WHEELER JAMES E JR & B I	3-113-9		
24	WHEELER JOLLY W SR & SARAH JANE (LE); ET AL	3-113-12.3		
A5	SHEARER STEVEN P	3-L13-12.1		
B5	KNIGHTJAMES C & D L	3-L13-13		
C5	DEMERSKI GARYL & MARY C	3-113-14		
D5	BARON KEITH E & C J	3-113-15		
E5	HOLMAN HARRY E& CHERYLL	6-T3-11		
F5	HOLMAN CHERYLL & H E	6-T3-13		
G5	MOORE GERALD T & A M	6-T3-14		
H5	MOORE GERALD T & A M	6-T3-14.1		
15	OHIO COUNTY COMMISSION	5-T3-28		
15	JDS INVESTMENTS LLC	6-T3-16		
K5	KETRON TRACY E & JOHN P	6-13-7.1		
LS	DERR ALFRED	5-T3-5		
M5	KETRON TRACY E& JOHN P	6-T3-7		
N5	HUGHES JAMES R & DARLA J	6-T3-8		
05	SHORES BARBARA A	6-T3-9		
P5	BOARD OF COMMISSIONERS	6-T3-10		
Q5	HANNING RANDY DALE & BRENDA JOYCE	6-T3-5.1		
R5	HANNING RANDY & BRENDA	6-T3-5.2		
55	HUNTER JOHN A & C M	6-T3Q-11		
TS	BEHRENSWMD	6-130-9		
US	HUNTER JOHN A & C M	6-T3Q-12		
V5	VILLAGE OF VALLEY GROVE	6-T3Q-27		

05/20/2022

REVISIONS:

COMPANY:

SVN

Production Company, LLC

OPERATOR'S

OCC-A OHI

WELL #: 47-069-00341 201H

DISTRICT:
TRIADELPHIA

COUNTY:
OHIO

STATE:
W

DISTRICT:
TRIADELPHIA

OHIO

STATE:
W

DISTRICT:
TRIADELPHIA

OHIO

WELL LOCATION PLAT 5

	EXHIBIT "AC"  OCC-4 (OHI 2011)  Olide Champi, West Virgina  Annelsed Season grades part of the State of Wort Virgina and Gas Formit From WW-5, 11, 60 SW/Hydrotron Company, 1, 14., Specialty  Annelsed Season grades part of the State of Wort Virgina Class Formit From WW-5, 11, 60 SW/Hydrotron Company, 1, 14., Specialty					
ı	150	LISSUE	LESSET	ROVALTY	ngro	VANTEREST NOT LEASED BY SWIFTED BEING LONG BANK, LLC.
D.	01-01.11-0003-0060	The Dound of Commissioners of Chap County a Lin The Eventy Pronounce as #Cohine on a fe	Chesapealte Apparachia, I. T. C. SWI: Production Company, I.L.	1300%	804711	B (0%)
2)	1.55 (00.7E-27)	to a Vegere Department of Transportation Lineares of Highways	SWN Production Company, LLE	20.00%+	95,0510	0.00%
38.	26401303-001 -20001	West Virginia Department of Transportation Divinian of Hightens Adm A. Honter and Goldy M. Horter, leadand and wife	SWN Production Company, LLC Chesapolite Appearant, LLC	27,00% 18,00%	981/591 817/196	
77		CA THE PERSON OF STREET STREET, STREET	SWN Productor Company 1.1.C		1837279	0 (U-+
10	06-0130-0318-000	Famoth L. Nällon, single	Chesquala Application 1.4.1. Sints Propagation Company, 11.0.	1 S E00* a	80 GT66 883/270	0.00% is
1	09/01/3/04/05/1/00/01	James F Mullindy, angle	Chempente Appalaciin, U.L.C. SWM Production Company, 13 0	152014	826/211 88/112	0.00%
0	064013(37000-0000)	Panea Focker single	Chespeake Appalaina, 1 f. C.	14 (60%	906/223	0.0-
210	06401301400153000	Policy J. Lieguert and Kersen Livin Manyant, husband and virts	SWN Production Company, M.C. Chomposite Appelicona, J. L.C.	18100	101 107	
7	2020/2011		SWW Product on Company, 11.0.		8837291	0.035
		Chapter F. Man, nort and Jase Ann Marquert, Innexes I and wife	O espeaks Application 1. C. SVZ-Uroduction Company, U.C.	19.00%	678/103- 183/251	
B)	0640190-00074000	Emissi Pantakka terje c	Chesaponi é Appliadma, L.I. C.	18,0041	110,109	Owns.
101	OR OTHER DOOR OF SERVICE	Joseph Somed Proc. A and Kableen Main Price, husband on haife	SWM Preduction Company, 1179 Chesapout e Appillacinia, 11 C	1210%	811/8	
31	manner de		SWE Production Company, LLC	10773	883/126	0,00%
(3)	0/4/19/24/00/4/000	Sheeda L Cothidd emple	Chemposke Appliedm. 1. C. SWI: Production Company, U.E.	18.50%	101/32	0.00%
iii	06401305-0005-0000	T. Vernin Anderson and Bonrio I. Dalle, both ongle	Quesapethe Appalachia, T.L.C.	13,50%	872 183	0.61%
		Soul Fack and Catterned Facs, hardward and savie	SWN Production Company, 11C Clesspeake Appalachia 1 L.C.	18/30%	281.459	
21		AC 101 AC 10	SWM Production Company 11.C		3837365	g.b.n.
13)	261TF-0801-0:00	Jongen I. Persons and Saley Purvey. Insuband and wife	Cherepsal e Apprincisia L.L.C.	18,00%	851/146	WWW.
1)	06-973/0-0003-0000	Wayne Barben, ranned and Bressell W. Healton, marginal	SWN Production Company, LLC Of expends Appelleding J. L.C.	1870%	413(69	0.6%
		Section and section in a section in the section in	SWN Freduction Company, LLC		454 203	nna.
15)	0640077-0005-2000	Anthony L. Asserto Jr. and Long Native Asset Literatured and write States L. Cook and Linda G. Cook, hutband and write	SWN Production Company, LLC SWN Production Company, LLC	18:00% 18:00%	937 (1)	
		Deniel A. March and Gim Mirch, instant and wife	SWN Production Company, 11.0	18:00%	997.414	
		Dennis P. Minch, was a I would L. Minch R, and Christine Minch husband and wife	SWM Production Company, 11.0 SWM Production Company, 11.0	18.00%	937 421	0.07%
		Mandall A. Strack, wing o	5WM Emphatom Compact 111	18/00 w	957/428	
		Tea. or F. Mindle and Assy I was Woods, bushand and wife: Jens Varyo and Marianae Varyo, bord and mile:	SWN Production Company 11 0 SWN Production Company, 11 C	18:00% 18:00%	937(32)	
55	D-0143-00014000	Ogledy Foundation, Dv.	SWN Production Company, LLC	18,00%	997/111	0.00%
		The Anna C. Microsoft Repressible Trans. United 6-9/1997, by Joseph L. Mesterill, Trustee	SWN Fredactor Corpus M.C.	18/30%	965/21	
71	13-01.12-00st-0002	Joseph E. Marwell and Singer M. Massoul, Instituted and wife. The state C. Marwell Economic Trust, Detail 64/1007, by Joseph E. Marwell, Trustian	SWM Freshation Company 110 SWM-Freshation Company 110	18.00%	903-21	4/00/4
31	13-01/10-00/3-00/0	Robert K. Eugfaste, Sr. a k a Robert R. Laubertt, a viscower	5W7+ (reduction Company, LLC	18.00%	797-17	0.004
		Recent Fr. Luchetti and Autoin de T. Luchetti, his hand and wife	Companie Appalachia, L. C. SWN Enchantes Company II C.	12.50%	885/218	V.00.
91	23.09.10.0010-0004	Louis Jonn Levin, when Louis I Louis, whower	Cheupode Apulichia L.L.C.	18.30%	863.776	0.0%
201	As object on the popular	Louis lives Labora, a Vin Living A. Labora, Vollance	SWN Production Company, LLC Champanka Appallacide, T. L. C.	18,50%	813/1	0.60%
			SWN Production Company, 14 C.		185:716	
11	E3 0L10 00 19-0000	Louis John Lascit, a Son Louis A. Levily, Vollawor	Clesopeake Ap (Oschio, F.I. C. SWF Production Commune, CLC)	18,00%	813/T	0.60%
27		Main F. Porter and Bachara V. Porter, hashand and wife	SWIP Productive Company, LLC	11:00%	953.751	0.00%
5)		Hassell E. Porlet and Sondyn K. Postet, bulleted and will	Former Energy for Range Resources - Appalation, 11 C	12.50%	788/751 738 004	(Alas)
			Cl exspense AppalachiaL.C.		\$11.441	0.000
	Named and San	The state of the s	SWN Production Company, 14.0. Formula Energy for	12.50%	780/711	
(1)	0448340025005	Randl L Portorad Sandra K. Portor, Inchesid and wife	Honge Resources - Appalachia, 1142	(2200	798 694	0.00%
			Champanha Appalacina, A. C. SWM Production Company, I.I.C.		894 181	A7-1-
25)	0440815-0025-0000	Quanti E. Poster and Bandra E. Poster, husband and value	Farmus Energy Inc.	12,50%	780713	
		And the second s	Range Resource - Appelachia, 112		702'004. 100.44E	0.07%
			Crosspent o Appalachia LLLC SWN Production Company, LLC		R94 (R)	
261	E4.0215-0025-0201	colored O. Compress and Linda M. Compress, hashed and Wife	Forsal Create Onio, LLC	13,00%	871.742	
			Output Energy Corporation American Purchase Partners Operating, LLA:		89.0392 909.773	0.62% w
			SWN Production Company, LLC		946-401	464
27)	04-0R15-0021-0000	Stary Four, LLC  John S. Nis Colley and Kvargarer L. McColley, increased and write	SWN freshection Company, LLC Chemponke Appalación, LLC	1670%	911/565 810/265	0.00° a
25 /	0+0K12-9017-9001		SWAD reduction Company, LLC		585/1	Ø (XC)* ≥
400	A CORPORATION AND ADDRESS.	The Robert and Patricia Wests 2016 Introceable Irrint, dated Japaner 20, 2016	SWA Production Common, LLC	18,00%	957.387	0.00%

END OF EXHIBIT "A"



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 4, 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 201H in Ohio County, West Virginia, Drilling under Chapel Hill Road and County Farm 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 County Farm 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

R2 WY+"

WW-6A1 (5/13)

# 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 I of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that —

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

Lease Name or				
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
	S-0	o Exhibit A		

#### See Exhibit A

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

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

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

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

Well Operator:	SWN Production Co., LLC	And Node
By:		Gavin Nadeau, RPL
Its:		Landman

Page 1 of \_\_\_\_



SWN Production Company, LLC I300 Fort Pierpont Dr, Ste 201 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 57th Street Charleston, WV 25304

RE: Proposed New Well: OCC A OHI 201H

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,

Brittany Woody

Brittany Woody

Senior Regulatory Analyst

Southwestern Energy Production Company, LLC

R2 W+"

The Right People doing the Right Things, wisely investing the party of the Right Party of

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

	4/13			-	
Date of Notic	ce Certification:		API No. 4		A COULDING H
			A - A - A - A - A - A - A - A - A - A -	Well No. OCC	
Matina Las I	Land Stores		Well Pad	Vame: OCCA	JHI Pad
	ne provisions in West Virginia Code	§ 22-6A, the Operator has pr	ovided the re	quired parties w	rith the Notice Forms listed
below for the State:	tract of land as follows: West Virginia		Easting:	534265.871	
County:	069-Ohio	UTM NAD 83	Northing:	4436645.584	
District:	Liberty	Public Road Ac		Rodneys Point Ru	un
Quadrangle:	Valley Grove	Generally used	farm name:	OCC-A OHI	
Watershed:	Roney Point Run of Little Wheeling Creek				
of giving the requirements Virginia Cod	equired by subsections (b) and (c), so surface owner notice of entry to so of subsection (b), section sixteen to § 22-6A-11(b), the applicant shall have been completed by the applicant	arvey pursuant to subsection of this article were waived it tender proof of and certify to	n (a), section in writing by	ten of this arti-	cle six-a; or (iii) the notice vner; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the O erator has properly served the require ECK ALL THAT APPLY	perator has attached proof to ed parties with the following	this Notice (	Certification	OOG OFFICE USE ONLY
□ 1. NO	TICE OF SEISMIC ACTIVITY of	■ NOTICE NOT REQU SEISMIC ACTIVITY WA			☐ RECEIVED/ NOT REQUIRED
■ 2. NO	TICE OF ENTRY FOR PLAT SUR	VEY or NO PLAT SUR	VEY WAS C	ONDUCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQU NOTICE OF ENTRY FOI WAS CONDUCTED OF			RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER (PLEASE ATTACK		CE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION				☐ RECEIVED
■ 5. PU	BLIC NOTICE				☐ RECEIVED
■ 6. NO	TICE OF APPLICATION				☐ RECEIVED

Required Attachments:

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

By:

#### Certification of Notice is hereby given:

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

Well Operator: SWN Production Co., LLC

Brittany Woody

Its: Senior Regulatory Analy

Telephone: 304-884-1610

Address: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

Facsimile: 304-884-1690

Email: Brittany\_Woody@swn.com

NOTARDS FM 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 FEBRUARY 2022.

Notary Public

My Commission Expires 3/2/2022

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 <a href="deepprivacyofficer@wv.gov">deepprivacyofficer@wv.gov</a>.

WW-6A (9-13)

API NO. 47-009
OPERATOR WELL NO. OCC-A OHI 201H
Well Pad Name: OCC A OHI Pac

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

Not	ice Time Requirer	ment: notice shall be provi	ded no later than the filing date of permit application.
Dat	e of Notice:	Date Permit Applica	tion Filed: 413
Not	ice of:	30,0000,000	
V	PERMIT FOR AT		CATE OF APPROVAL FOR THE RUCTION OF AN IMPOUNDMENT OR PIT
Del	ivery method purs	uant to West Virginia Co	ode § 22-6A-10(b)
	PERSONAL	✓ REGISTERED	☐ METHOD OF DELIVERY THAT REQUIRES A
_	SERVICE	MAIL	RECEIPT OR SIGNATURE CONFIRMATION
the soil addessed open more well imphave proven properties.	surface of the tract of and gas leasehold be cribed in the erosion rator or lessee, in the e coal seams; (4) The work, if the surface oundment or pit as do a water well, spring vide water for consumpted well work actions (b) of this secretion (b) of this secretion of the sheriff receivision of this article te R. § 35-8-5.7.a re-	on which the well is or is pro- ing developed by the propose and sediment control plans as event the tract of land on we event the tract of land on we event is to be used for the particle of the set tract is to be used for the particle of	this article, and the well plat to each of the following persons: (1) The owners of record of posed to be located; (2) The owners of record of the surface tract or tracts overlying the sed well work, if the surface tract is to be used for roads or other land disturbance as submitted pursuant to subsection (c), section seven of this ancie. (3) The coal owner, which the well proposed to be drilled is located [sic] is known to be underlain by one or urface tract or tracts overlying the oil and gas leasehold being developed by the proposed lacement, construction, enlargement, alteration, repair, removal or abandonment of any this article; (5) Any surface owner or water purveyor who is known to the applicant to eated within one thousand five hundred feet of the center of the well pad which is used to stic animals; and (6) The operator of any natural gas storage field within which the f more than three tenants in common or other co-owners of interests described in ands, the applicant may serve the documents required upon the person described in the suant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any ien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. rator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any not water testing as provided in section 15 of this rule.
	Application Notice	■ WSSP Notice □ E&	2S Plan Notice Well Plat Notice is hereby provided to:
	URFACE OWNER		COAL OWNER OR LESSEE
	ne: Board of Commission Iress: 1500 Chapline St		Name: Alliance Resources GP, LLC Address: 2596 Bettle Run Road
	eling, WV 26003	, Some 215	Triadelphia, WV 26059
-	ne:		COAL OPERATOR
	3300		Address:
	URFACE OWNER	(s) (Road and/or Other Di	sturbance)
Nar	ne:		☑ SURFACE OWNER OF WATER WELL
Add	lress:		AND/OR WATER PURVEYOR(s)
_			
Nar	ne;		Address:
Add	iress		
			■ OPERATOR OF ANY NATURAL GAS STORAGE FIELD
			Name:
Nar Ad-	ne:		Address:
Auc	11 692		*Please attach additional forms if necessary
Nar Add	ne: dress: URFACE OWNER	(s) (Impoundments or Pits	AND/OR WATER PURVEYOR(s) Name: Sae Attachment 13A Address:  OPERATOR OF ANY NATURAL GAS STORAGE FIELD Name: Address:

API NO. 47- 009

OPERATOR WELL NO. OCC-A OHI 201H 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 (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <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 staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

API NO. 47-009

OPERATOR WELL NO. OCC-A OHI 201H

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.

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

OPERATOR WELL NO. OCC-A CHI 201H

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 201H Well Pad Name: OCC A OHI Pad

Notice is hereby given by:

intom & wady Well Operator: SWN Production Co., LLC

Telephone: 304-884-1610

Email: Brittany\_Woody@swn.com

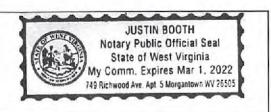
Address: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

Facsimile: 304-884-1690

#### Oil and Gas Privacy Notice:

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



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

Notary Public

My Commission Expires 3/1/2022

Attachment 13A

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

Sources

Landowner

Address

Barbara Shores

1705 Point Run Road, Triadelphia WV 26059 2 Well

WW-6A3 (1/12)

Operator	Well No.	OCC-A OHI	
Operator	WELL TAO.	000710111	

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

	1 1	
entry Date of Notice	Date of Plan	ned Entry: 117 33
	110/100	
Delivery meth	od pursuant to West Virginia Co	de § 22-6A-10a
D PEDGON	AL REGISTERED	☐ METHOD OF DELIVERY THAT REQUIRES A
☐ PERSON.		
SERVICE	MAIL	RECEIPT OR SIGNATURE CONFIRMATION
on to the surface but no more the beneath such to owner of miner and Sediment ( Secretary, whice enable the surfa-	the tract to conduct any plat surveys an forty-five days prior to such entract that has filed a declaration pursuals underlying such tract in the coulontrol Manual and the statutes and the statutes and the statement shall include contact in ace owner to obtain copies from the	ior to filing a permit application, the operator shall provide notice of planned entry required pursuant to this article. Such notice shall be provided at least seven days y to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams cant to section thirty-six, article six, chapter twenty-two of this code; and (3) any mty tax records. The notice shall include a statement that copies of the state Erosion rules related to oil and gas exploration and production may be obtained from the aformation, including the address for a web page on the Secretary's web site, to execretary.
Notice is herel	by provided to:	
■ SURFACE	E OWNER(s)	COAL OWNER OR LESSEE /
Name: Board of C	Commission Ohio County	Name: Alliance Resources GP, LLC
	Chapline St., Suite 215	Address: 2596 Battle Run Road
Wheeling, WV 26003		Triadelphia, WV 26059
Name:		FILE AND THE AMOUNT OF A STATE OF
Address:		MINERAL OWNER(s)
Nama		Name: Board of Commission Ohio County  Address: 1500 Chapline St., Suite 215
		Wheeling, WV 25003
Address		*please attach additional forms if necessary
Address.		*please attach additional forms if necessary
Notice is here Pursuant to We a plat survey or	eby given: est Virginia Code § 22-6A-10(a), no n the tract of land as follows: West Virginia	Approx. Latitude & Longitude: 40.089427,-80.600276
Notice is here Pursuant to We a plat survey or State: County:	est Virginia Code § 22-6A-10(a), no n the tract of land as follows:	Approx. Latitude & Longitude:  Public Road Access:  Approx. Latitude & Longitude:  Approx. La
Notice is here Pursuant to We a plat survey or State: County: District:	est Virginia Code § 22-6A-10(a), no in the tract of land as follows: West Virginia Ohio Liberty	Approx. Latitude & Longitude:  Public Road Access:  Watershed:  Approx. Latitude & Longitude:  Public Road Access:  Watershed:  Departor is planning entry to conduct  40.089427, -80.600276  Rodneys Point Run  Upper Ohio South
Notice is here Pursuant to We a plat survey or State: County; District:	est Virginia Code § 22-6A-10(a), no in the tract of land as follows: West Virginia Obio	Approx. Latitude & Longitude:  Public Road Access:  Approx. Latitude & Rodneys Point Run
Notice is here Pursuant to We a plat survey or State: County: District: Quadrangle: Copies of the s may be obtaine Charleston, W	est Virginia Code § 22-6A-10(a), non the tract of land as follows:  West Virginia Ohio Liberty Valley Grove  tate Erosion and Sediment Control of from the Secretary, at the WV Dov 25304 (304-926-0450). Copies of	Approx. Latitude & Longitude:  Public Road Access:  Watershed:  Approx Dipor Ohlo South
Notice is here Pursuant to We a plat survey or State: County: District: Quadrangle: Copies of the s may be obtaine Charleston, Wo obtained from	est Virginia Code § 22-6A-10(a), non the tract of land as follows:  West Virginia Ohio Liberty Valley Grove  tate Erosion and Sediment Control and from the Secretary, at the WV Dev. 25304 (304-926-0450). Copies of the Secretary by visiting www.den.	Approx. Latitude & Longitude:  Approx. Latitude & Longitude:  Public Road Access:  Watershed:  Generally used farm name:  Manual and the statutes and rules related to oil and gas exploration and production epartment of Environmental Protection headquarters, located at 601 57th Street, SE, of such documents or additional information related to horizontal drilling may be
Notice is here Pursuant to We a plat survey or State: County: District: Quadrangle: Copies of the s may be obtaine Charleston, Wo obtained from	est Virginia Code § 22-6A-10(a), non the tract of land as follows:  West Virginia Ohio Liberty Valley Grove  tate Erosion and Sediment Control and from the Secretary, at the WV Dove 25304 (304-926-0450). Copies of the Secretary by visiting www.den.	Approx. Latitude & Longitude:  Approx. Latitude & Longitude:  Public Road Access:  Watershed:  Generally used farm name:  Manual and the statutes and rules related to oil and gas exploration and production epartment of Environmental Protection headquarters, located at 601 57th Street, SE, of such documents or additional information related to horizontal drilling may be
Notice is here Pursuant to We a plat survey or State: County: District: Quadrangle: Copies of the s may be obtaine Charleston, Wo obtained from	est Virginia Code § 22-6A-10(a), non the tract of land as follows:  West Virginia Ohio Liberty Valley Grove  tate Erosion and Sediment Control and from the Secretary, at the WV Dove 25304 (304-926-0450). Copies of the Secretary by visiting www.den.	Approx. Latitude & Longitude:  Approx. Latitude & Longitude:  Public Road Access:  Watershed:  Generally used farm name:  Manual and the statutes and rules related to oil and gas exploration and production epartment of Environmental Protection headquarters, located at 601 57th Street, SE, of such documents or additional information related to horizontal drilling may be wv.gov/oil-and-gas/pages/default_aspx.

#### 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 www.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		d at least TEN (10) days prior to filing a Permit Application Filed:	permit application.
Delivery met	hod pursuant to West Virginia Code	§ 22-6A-16(b)	
] HAND	■ CERTIFIED MAIL		
DELIVE		REQUESTED	
eceipt requestrilling a horion of this subsection mand if availab	sted or hand delivery, give the surface of izontal well: <i>Provided</i> , That notice give tion as of the date the notice was proving be waived in writing by the surface le, facsimile number and electronic materials provided to the SURFACE of	owner notice of its intent to enter upon the ven pursuant to subsection (a), section te ded to the surface owner: <i>Provided, how</i> owner. The notice, if required, shall include address of the operator and the operator	an operator shall, by certified mail return the surface owner's land for the purpose of an of this article satisfies the requirements the ever, That the notice requirements of this tude the name, address, telephone number, r's authorized representative.
	Commission Ohio County	Name:	
Contract Contract	Chapline St., Suite 215	Address:	<del></del>
Whe	eling, WV 26003		
		uth NAD 83 UTM NAD 83 Northing:	well operator has an intent to enter upon llows: 534,265.871 4,436,645.584
District:	Tridelphia	Public Road Access:	Roney Point Run Road
Quadrangle:	Valley Grove, WV	Generally used farm name:	OCC-A OHI
Watershed:	Roney Point Run of Little Wheeling Creek of Wheelin	g Creek	
Pursuant to Vifacsimile nur related to hor	nber and electronic mail address of the rizontal drilling may be obtained from	he operator and the operator's authorize the Secretary, at the WV Department o	ess, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		· · · · · · · · · · · · · · · · · · ·
	reby given by: r: SWN Production Company, LLC	Authorized Representative:	Miles Vistor
Men Operato Address:		Address:	Mike Yates
nddress:	1300 Fort Pierpont Drive, Suite 201	Address.	1300 Fort Pierpont Drive, Suite 201  Morgantown, WV 26508
Telephone.	Morgantown, WV 26508	Telephone:	304-884-1714
	304-884-1714	Email:	
Email: Facsimile:	Michael_Yates@swn.com	Facsimile:	Michael Yates@ewn.com

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-6A5 (1/12)

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

Notice Time Date of Notic		ermit Application Filed:	1113	
Delivery met	hod pursuant to West Virginia	Code § 22-6A-16(c)		
CERTI	FIED MAIL	☐ HAND		- 6
	RN RECEIPT REQUESTED	DELIVERY		*
ICE I OF	dy RECEII I REQUESTED	DELIVER		
eturn receipt he planned of required to be drilling of a l damages to the d) The notice of notice.	requested or hand delivery, give operation. The notice required by provided by subsection (b), section or provided by subsection (c), section or provided by subsection (d). A propose surface affected by oil and gas on the surface affected by this section shall be supported by this section shall be supported by the surface affected by the supported by the suppor	the surface owner whose land of this subsection shall include on ten of this article to a surface sed surface use and compensate operations to the extent the dame given to the surface owner at OWNER(s)	will be used for (1) A copy the owner who tion agreement tages 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 containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
and the address	s listed in the records of the sherif	f at the time of notice):		
The Mark Mark and Control of				
Name: Board of	Commission Ohio County	Name:		
Name: Board of Address: 1500 Whee	Commission Ohio County Chapline St., Suite 215	Name:Address:	undersigned	well operator has developed a planned
Name: Board of Address: 1500 Whee Notice is her Pursuant to W	Commission Ohio County Chapline St., Suite 215 eling, WV 26003  eby given /est Virginia Code § 22-6A-16(c), the surface owner's land for the p	Name: Address: , notice is hereby given that the purpose of drilling a horizontal	well on the tra	
Name: Board of Address: 1500 Whee Notice is her Pursuant to We peration on State:	Commission Ohio County Chapline St., Suite 215 Paling, WV 26003  Peby given Pest Virginia Code § 22-6A-16(c), the surface owner's land for the powest Virginia	Name: Address: , notice is hereby given that the	well on the tra Easting:	well operator has developed a planned act of land as follows:  534,265.871  4,436,645.584
Name: Board of Address: 1500 Whee Notice is her Pursuant to Wasperation on State: County:	Commission Ohio County Chapline St., Suite 215 Pling, WV 26003  Peby given Pest Virginia Code § 22-6A-16(c), the surface owner's land for the public West Virginia Ohio	Name: Address: , notice is hereby given that the purpose of drilling a horizontal	well on the tra Easting: Northing:	act of land as follows: 534,285.871
Name: Board of Address: 1500 Whee Pursuant to Wopperation on State: County: District:	Commission Ohio County Chapline St., Suite 215 Paling, WV 26003  Peby given Pest Virginia Code § 22-6A-16(c), the surface owner's land for the powest Virginia	Name: Address: notice is hereby given that the purpose of drilling a horizontal UTM NAD 83 Public Road A	well on the tra Easting: Northing: ccess:	act of land as follows: 534,285,871 4,436,645,584
Name: Board of Address: 1500 Whee Pursuant to Woperation on State: County: Quadrangle:	Commission Ohio County Chapline St., Suite 215 Siling, WV 26003  eby given /est Virginia Code § 22-6A-16(c), the surface owner's land for the p West Virginia Chio Tricelphia	Name: Address: notice is hereby given that the surpose of drilling a horizontal UTM NAD 83 Public Road A Generally used	well on the tra Easting: Northing: ccess:	act of land as follows: 534,285.871 4,436,645.584 Roney Point Run Road
Name: Board of Address: 1500 Whee Pursuant to Wopperation on State: County: District:	Commission Ohio County Chapline St., Suite 215 eling, WV 26003  eby given: /est Virginia Code § 22-6A-16(c), the surface owner's land for the p West Virginia Ohio Tridelphia Valley Grove, WV	Name: Address: notice is hereby given that the surpose of drilling a horizontal UTM NAD 83 Public Road A Generally used	well on the tra Easting: Northing: ccess:	act of land as follows: 534,285.871 4,436,645.584 Roney Point Run Road
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Name: Board of Address: 1500 Whee Pursuant to Woperation on State: County: District: Quadrangle: Watershed: Pursuant to Voo be provide norizontal we surface affect information re-	Commission Ohio County Chapline St., Suite 215 Siling, WV 26003  Peby given Vest Virginia Code § 22-6A-16(c), the surface owner's land for the pwest Virginia Chio Tricelphia Valley Grove, WV Roney Point Run of Little Wheeling Creek of V Shall Include: Vest Virginia Code § 22-6A-16(c) ed by W. Va. Code § 22-6A-10(le); and (3) A proposed surface us ted by oil and gas operations to the lated to horizontal drilling may located at 601 57th Street, SE,	Name: Address: Address:  notice is hereby given that the purpose of drilling a horizontal  UTM NAD 83  Public Road A  Generally used  The object of the second compensation agreement the extent the damages are corbe obtained from the Secreta	Well on the tra Easting: Northing: ccess: I farm name: A copy of this land will be containing an npensable uno ry, at the WV	act of land as follows:  534,285.871  4,436,645.584  Reney Point Run Road  OCC-A OHI   code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection
Name: Board of Address: 1500 Whee Pursuant to Woperation on State: County: District: Quadrangle: Watershed: Pursuant to Voto be provided norizontal we surface affect information readquarters, gas/pages/def	Commission Ohio County Chapline St., Suite 215 eling, WV 26003  eby given Vest Virginia Code § 22-6A-16(c), the surface owner's land for the p West Virginia Ohio Tricelphia Valley Grove, WV Roriey Point Run of Little Wheoling Creek of V Shall Include: Vest Virginia Code § 22-6A-16(c) ed by W. Va. Code § 22-6A-10(lell; and (3) A proposed surface us ted by oil and gas operations to the lated to horizontal drilling may located at 601 57th Street, SE, iault.aspx.	Name: Address: Address:  notice is hereby given that the purpose of drilling a horizontal  UTM NAD 83  Public Road A Generally used  Name: Address:  On this notice shall include: (1) A  Bo to a surface owner whose e and compensation agreement the extent the damages are combe obtained from the Secreta Charleston, WV 25304 (3)	well on the tra Easting: Northing: ccess: I farm name: A copy of this land will be a containing an inpensable underly, at the WV	act of land as follows:  534,265.871  4,436,645.584  Reney Point Run Road  OCC-A OHI   code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional Department of Tayloronmental Protection or by visiting www.dep.wv.gov/oil-and-
Name: Board of Address: 1500 Whee Pursuant to Woperation on State: County: District: Quadrangle: Watershed: Pursuant to Voto be provided norizontal we surface affect information in headquarters, gas/pages/del	Commission Ohio County Chapline St., Suite 215  eling, WV 26003  eby given /est Virginia Code § 22-6A-16(c), the surface owner's land for the p West Virginia Ohio Tricelphia Valley Grove, WV Roney Point Run of Little Wheoling Creek of v  Shall Include: Vest Virginia Code § 22-6A-16(c) ed by W. Va. Code § 22-6A-10(lell; and (3) A proposed surface us ted by oil and gas operations to the lated to horizontal drilling may located at 601 57th Street, SE, iault aspx.	Name: Address: Address:  notice is hereby given that the purpose of drilling a horizontal  UTM NAD 83  Public Road A  Generally used  The object of the second of the extent the damages are corbe obtained from the Secreta Charleston, WV 25304 (3)  Address:	Well on the tra Easting: Northing: ccess: I farm name: A copy of this land will be t containing an npensable und ry, at the WV 604-926-0450	act of land as follows:  534,285.871  4,436,645.584  Reney Point Run Road  OCC-A OHI   code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional / Department of Toyloromental Protection or by visiting www.dep.wv.gov/oil-and-Drive, Suite 201
Name: Board of Address: 1500 Whee Pursuant to Woperation on State: County: District: Quadrangle: Watershed: Pursuant to Voto be provided norizontal we surface affect information readquarters, gas/pages/def	Commission Ohio County Chapline St., Suite 215 eling, WV 26003  eby given Vest Virginia Code § 22-6A-16(c), the surface owner's land for the p West Virginia Ohio Tricelphia Valley Grove, WV Roriey Point Run of Little Wheoling Creek of V Shall Include: Vest Virginia Code § 22-6A-16(c) ed by W. Va. Code § 22-6A-10(lell; and (3) A proposed surface us ted by oil and gas operations to the lated to horizontal drilling may located at 601 57th Street, SE, iault.aspx.	Name: Address: Address:  notice is hereby given that the purpose of drilling a horizontal  UTM NAD 83  Public Road A  Generally used  The object of the second of the extent the damages are corbe obtained from the Secreta Charleston, WV 25304 (3)  Address:	well on the tra Easting: Northing: ccess: I farm name: A copy of this land will be a containing an inpensable underly, at the WV	act of land as follows:  534,285.871  4,436,645.584  Reney Point Run Road  OCC-A OHI   code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional / Department of Toyloromental Protection or by visiting www.dep.wv.gov/oil-and-Drive, Suite 201

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>.



## 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

D. Alan Reed, P.E. State Highway Engineer

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 201H Well Site

Dear Mr. Martin,

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.

Dary K. Clayton

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Brittany Woody

Southwestern Energy CH, OM, D-6

File

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Profect Name Al-303 (U.S. Well Services)	Product Use Mixture	Chemical Name Ethylene glycol	CAS Number 107-21 1
		Cinnamaldehyde	104-55 2
		Butyl cellosolve	111-75 2
		Formic acid	64-18 6
		Polyether	Proprietary
		Acetophenone, thiourea, formaldehyde polymer	68527-49 1
P ONE (U.S. Well Services)	Breaker	Ammonium persulfate	7727-54-0
actron K-139 (Champion Technologies)	Biocide	Glutaraldehyde	111-30-8
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides Ethanol	58424-85-1
			54-17-5
ctron K-219 (Champion Technologies)	Biocide	Methanol Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	67-56-1 68424-85-1
irboNRT	Yana.	Ceramic Proppant	56402-68-4
	Tracer	Amine Triphosphate	Proprietary
6485A (Nalco Champion)	Scale Inhibitor	Ethylene Glycol	107-21-1
ennas det annota Tarbantano.	601.031		7722-84-1
6734A (Champion Technologies)	Biocide	Hydrogen Peroxide Acetic Acid	54-19-7
		Peroxyacetic Acid	79-21-0
ono-Cl200 (SWN Well Services)	Corrosion Inhibitor	Methanol	67-56-1
nic cizeo para recubinancaj	COLLOCATION	Oxyalkylated fatty acid	68951-67-7
		Fatty acids	51790-12-3
		Modified thiourea polymer	58527-49-1
		Water	7732-18-5
		Hydrochloric acid	7647-01-0
		Potassium acetate	127-08-2
		Formaldehyde	50-00-0
opol-FEAC (SWN Well Services)	Iron Control	Acetic Acid	54-19-7
		Citric Acid	77-92-9
		Water	7732-18-5
P-S1176-15 (Halliburton)	Friction Reducer	Polyacylate	Proprietary
		Hydrotreated light petroleum distillate	64742-47-8
DJET DR900 LPP (SWN Well Services)	Friction Reducer	Distillates (petroleum) hydrotreated light	54674-47-8
		Ethylene Glycol	107-21-1
		Alcohols, C12-16, Exoxylated propoxylated	58213-24-1 Proprietary
		Fatty Alcohols ethoxylated Water	Proprietary 7732-18-5
DISTRIBUTE AND LIGHT TO THE PARTY OF THE PAR	Finally medium	Proprietary	Proprietary
OUET DRP 1130X (SWN Well Services)	Friction Reducer		64742-47-8
76 (Halliburton)	Friction Reducer	Hydrotreated light petroleum distillate Inorganic Salt	Proprietary
OTRON T 200 /Champles Technology	Scale Inhibitor	Methanol	67-56-1
PTRON T-390 (Champion Technologies)	Scale Inhibitor	Nonylphenol Ethoxylate	Proprietary
II-150E (Halliburton)	Corrosion Inhibitor	No hazardous substance	N/A
		Hydrochloric Acid	7647-01-0
CL (SWN Well Services)	Hydrocholic Acid	Water	7732-18-5
-65 MC (Halliburton)	Scale Inhibitor	Organic phosphonate	Proprietary
es we (namburton)	acate minuted	Ammonium Chloride	12125-02-9
TI-FLEX (U.S. Well Services)	Viscosifying Agent	Distillates, petroleum, hydrotreated light	54742-47-8
xslick 930	Friction Reducer	Copolymer of 2-propenamide	Proprietary
		Hydrotreated Distillate	54742-47-8
		Sodium Chloride	7647-14-5
		Alcohols, C12-16, Exoxylated	68551-12-2
		Oleic Acid Diethanolamide	93-83-4
		Ammonium Chloride	12125-02-9
xslick 953	Friction Reducer	Petroleum Distillate	64742-47-8
		Sodium Chloride	7647-14-5
		Ammonium Chloride	12125-02-9
		N,N-bis (2-hydroxyethyl) oleamide	93-83-4
exslick 957	Friction Reducer	Petroleum Distillate	64742-47-8
		Ammonium Chloride	12125-02-9
		Oleic Acid Diethanolamide	93-83-4
		Alcohols, C12-16, Exoxylated Water	68551-12-2 7732-15-5
	and the second		7/32-15-5
exslick 996	no data available	Copolymer of 2-Propeenamide Distillates (petroleum), hydotreated light	64742-47-8
		Alcohol Ethoxylate	*******
		Surfactant	******
FRA-2000 (U.S. Well Services)	Anionic Friction Reducer	Hydrotreated light distillate (petroleum)	64742-47-8
	The section of the second	Propenoic acid, polymer with propenamide	9003-069
exald 655 NM	Scale Inhibitor	Diethylenetriamine penta (methylene phosphonic acid)	15827-30-8
exslick 922	no data available	Copolymer of 2-propenaminde	69418-26-4
		Distillates (petroleum), hydotreated light	64742-47-8
		Ammonium chloride ((NH4)CI)	12125-02-9
		Oleic Acid Diethnolamide	93-83-4
Icide 4Frac	Mixture	Phosphonium, tetrakis (hydroxymethyl), Sulfate Ousternast ammonium Compounds Beastyl C12-15-Alfoldimethyl Chlorides	55565-30-8
		Quaternary ammonium Compounds, Benzyl-C12-15-Alkyldimethyl, Chlorides	68424-85-1
		Ethanol	64-17-5
olcide PS50A	Biocidal product	Tetrakis (hydroxymethyl) phosphonium sulphate	55565-30-8
		Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate	
		groups	397256-50-7
0-2950	Friction Reducer	Hydrotreated light petroleum distillate	54742-47-8
		Ethoxylated alcohol	Proprietary
		Poly (oxy-1.2-ethanediyl) alphatridecylomegahydroxy-, branched	69011-36-5
	Scale Control	Methanol	67-56-1
end LD-7750W			
end LD-7750W MX 8-4743	Specialty Product	Phosphonic Acid Salt Sodium Nitrate	Proprietary 7631-99-4

#### GRID NORTH REVISED LOD AREA= 0.483 acres PERIMETER = 389.2" 11= 230 2 SITE ENTRANCE 40.089299°N 80.600353°W 1000 2000

#### OCC A OHI PAD "A" CONSTRUCTION AND RECLAMATION PLAN AS-BUILT TRIADELPHIA DISTRICT OHIO COUNTY, WV TS1. TITLE SHEET MAY 2017

**REVISED JUNE 2018** 

ORIGINAL LOD

APPROVED

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

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: 40.069299 LONG: 80.600353

CENTER OF PAD (NAD83) LONG: 80.598094

GATHERING AREA (NAD83) LAT: 40.089299 LONG: 80.600353

EXISTING WELL 3H (NADB3) LAT: 40.079462 LONG: 80.598107

EXISTING WELL 10H. (NAD83) LAT: 40,079502 LONG: 80 598041

API NUMBER: 069-00137 API NUMBER:069-00096

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

AS3.1 ASBUILT OVERVIEW

AS3.2 ASBUILT

AS3.3 ASBUILT

AS3.4 ASBUILT AS3.5 ASBUILT

AS3.7 ASBUILT

ASS & ASSUULT

ASS 9 ASBUILT

ASR4.1 ACCESS ROAD PROFILE

ASR4.2 ACCESS ROAD PROFILE

ASR43 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 MRD5.8 RECLAMATION PLAN

MRD5.9 RECLAMATION PLAN

MRD6.1 RECLAMATION DETAILS

MRD6.2 RECLAMATION DETAILS MRD6.3 RECLAMATION DETAILS

ENGINEER'S ESTIMATE OF QUANTITIES WELL PAD DATA ESTIMATED QUANTITY UNIT DESCRIPTION 24" MOUNTABLE BERM 5:1 U CF FILL FOR BERM 5:1 **EROSION & SEDIMENT CONTROLITEMS** STIMATED QUANTITY UNIT DESCRIPTION ROCK LINED DITCH LF CLASS C RIP RAP TN **OUTLET PROTECTION/ROCK APRON SUMP** EA OUTLET PROTECTION/ROCK APRON SUMP ROCK: CLASS C TN SY OUTLET PROTECTION/ROCK APRON SUMP ROCK: GEOTEXTILE 3.6 CUT FOR ABOVE GROUND STORAGE TANK 403 SY FILL FOR ABOVE GROUND STORAGE TANK 403 UNDERDRAIN ITEMS ESTIMATED QUANTITY UNIT DESCRIPTION 3'X3'X3' CONCRETE CATCH BASIN



PROJECTA DATE 2017-05-1 DOZUM BY-

NIE

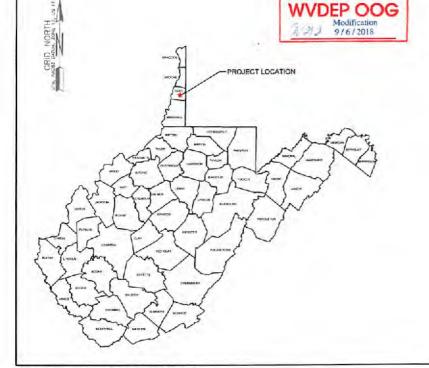


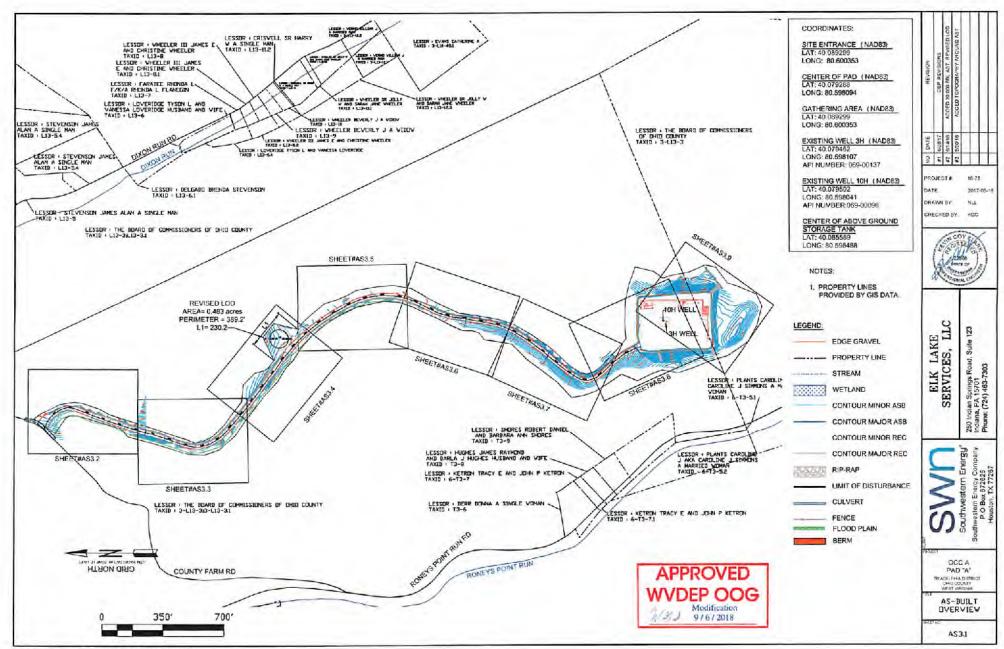
ELK LAKE SERVICES, LLC

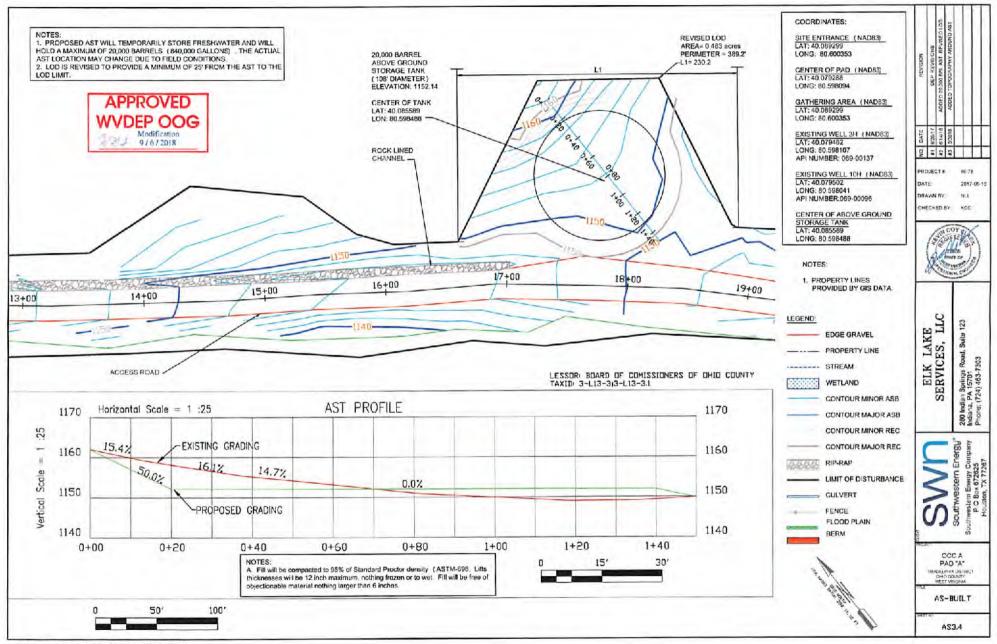
OCC A PAD "A" THADELPHIA DISTRICT DHIO DOUNTY

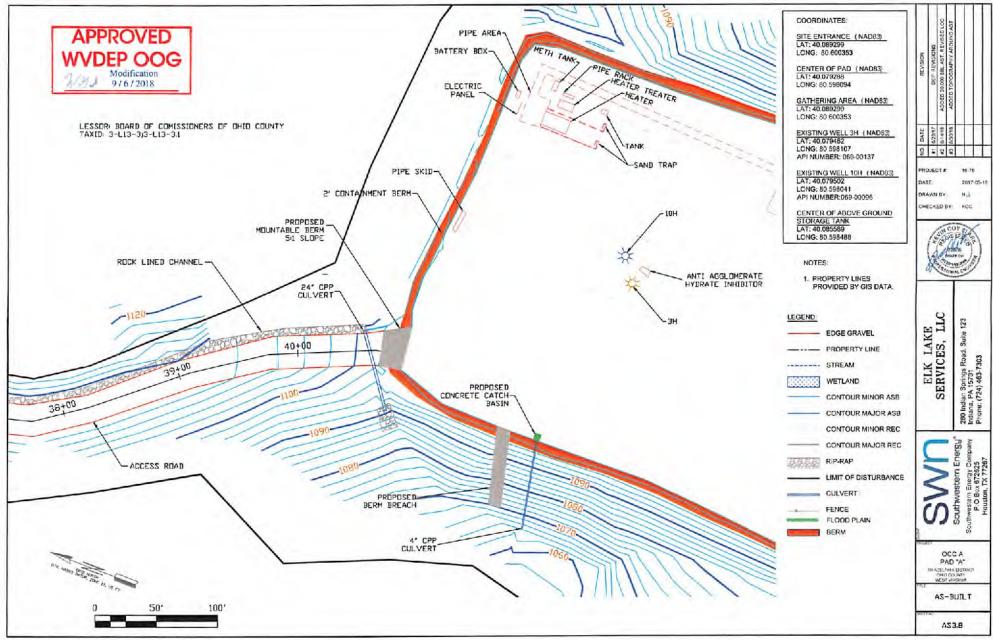
TITLE SHEET

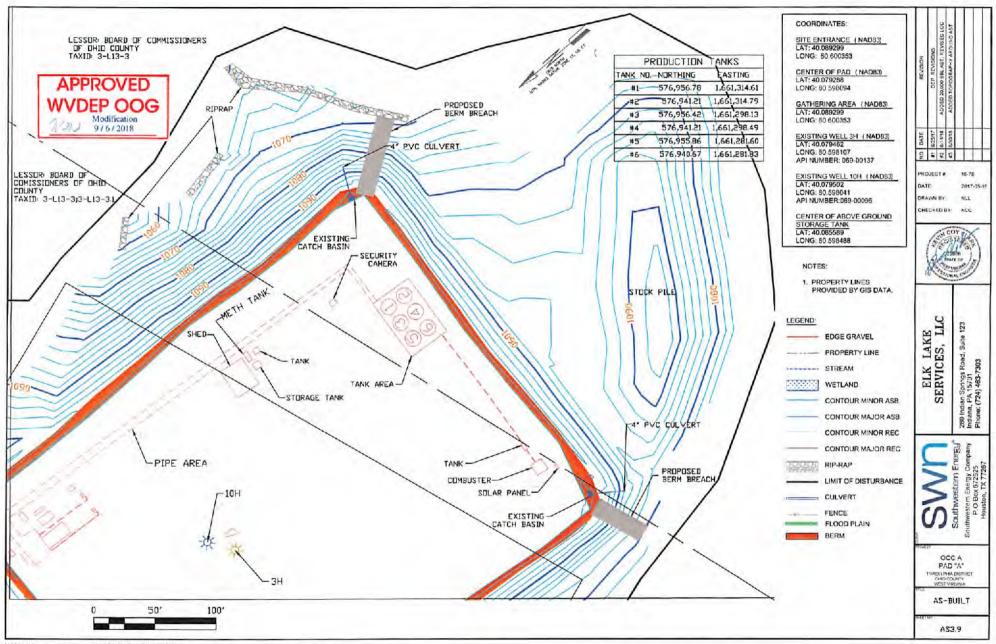
TS1













#### 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 EP2.2 EVACUATION ROUTE/PREVAILING

PROJECT LOCATION

TOTAL DISTURBED AREA: 17.9 ACRES ROAD DISTURBED AREA: 2.4 ACRES PAD DISTURBED AREA: 3.0 ACRES

#### COORDINATES:

SITE ENTRANCE (NADB3) LAT: 40,089299 LONG: 80,600353

CENTER OF PAD (NAD83) LONG: 80.598094

GATHERING AREA (NADB3) LAT: 40.089299 LONG: 80.600353

EXISTING WELL 3H (NADB3) LAT: 40.079462 LONG: 80.598107 API NUMBER: 069-00137

EXISTING WELL 10H (NAD83) LAT: 40.079502 LONG: 80,598041 API NUMBER:069-00096

ENGINEER'S ESTIMATE OF QUAN	TITIES	
WELL PAD DATA		
DESCRIPTION	ESTIMATED QUANTITY	UNIT
24" MOUNTABLE BERM 5:1	35	LF
FILL FOR BERM 5:1	840	CF
EROSION & SEDIMENT CONTROLI	TEMS	
DESCRIPTION	ESTIMATED QUANTITY	UNIT
ROCK LINED DITCH	50	LF
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	SY
UNDERDRAIN ITEMS		
DESCRIPTION	ESTIMATED QUANTITY	UNIT
3'X3'X3' CONCRETE CATCH BASIN	1	EA

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

MRD6.3 RECLAMATION DETAILS

ION PLAN	REVISION		
	NO. DATE		
SHEET INDEX TS1. TITLE SHEET EP2.1 EVACUATION ROUTE/PREVAILING WIND EP2.2 EVACUATION ROUTE/PREVAILING WIND AS3.1 ASBUILT OVERVIEW AS3.2 ASBUILT AS3.3 ASBUILT	DATE DRAW CHED		16 20 18
AS3.4 ASBUILT AS3.6 ASBUILT AS3.7 ASBUILT AS3.8 ASBUILT AS3.9 ASBUILT AS4.1 ACCESS ROAD PROFILE AS6.2 ACCESS ROAD PROFILE AS6.3 ACCESS ROAD PROFILE			A CA
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	KE	LLC	uite 123

2017-05-16

ELK LAK SERVICES,

PAD "A" TRIADELPHIA DISTRICT CHIO COUNTY WEST WIRGINIA

TITLE SHEET

TS1

U:\2016\Southwestern Energy\16-76 OCC A\SITE DESIGN