

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

Tuesday, March 1, 2022 WELL WORK PERMIT Horizontal 6A / New Drill

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

Re: Permit approval for EDWARD DREMAK OHI UP 2H 47-069-00333-00-00

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:

EDWARD DREMAK OHI UP

Farm Name: ANDREW JOHN EVICK

U.S. WELL NUMBER: 47-069-00333-00-00

Horizontal 6A New Drill Date Issued: 3/1/2022



west virginia department of environmental protection

Oil and Gas Conservation Commission 601 57th Street SE, Charleston, WV 25304 304-414-1239

Randall M. Albert, Chairman dep.wv.gov

February 18, 2022

Department of Environmental Protection Office of Oil and Gas Charleston, WV 25304

RE: Application for Deep Well Permit – API #47-069-00333

COMPANY: SWN Production Company, LLC

FARM: Andrew John Evick

Edward Dremak OHI UP 2H

COUNTY:

Ohio

DISTRICT: Richland

QUAD: Tiltonsville

The deep well review of the application for the above company is <u>Approved to drill to Trenton for Point Pleasant completion.</u>

The applicant has complied with the provision of Chapter 22C-9, of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

- 1. Comments to Notice of Deviation filed? No.
- 2. Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners? Yes
- 3. Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of all deep wells: none
- Provided a plat showing that the productive interval of the well meets the requirements of the Rules of the Commission W. Va. C.S.R. § 39-1-4.2.

Sincerely,

Susan Rose Administrator

API Number: 4706900333

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action</u>.

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 casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

PERMIT CONDITIONS

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

API NO. 47- 069

OPERATOR WELL NO. Edward Dremak UP CHI 2H
Well Pad Name: Edward Dremak OHI PAD

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

1) Well Operator: S	SWN Production Co., LL	C 494512924	069-Ohio	4-Richlar 641-Tiltonsville &
vicinia de Principio III		Operator ID	County	District - Quadrangle
2) Operator's Well N	Number: Edward Dremak	UP OHI 2H Well P	ad Name: Edv	vard Dremak OHI PAD
3) Farm Name/Surfa	ace Owner: Andrew John	Evick Public Ro	oad Access: No	orth Fork Road
4) Elevation, current	ground: 1088	Elevation, propose	d post-construc	tion: 1088'
5) Well Type (a) (Gas x Oil	Un	derground Stor	age
Othe	er			
(b)If	f Gas Shallow	Deep	X	
	Horizontal X			
6) Existing Pad: Yes	or No yes			
	Formation(s), Depth(s), An oint Pleasant, Up-Dip Well to the North, Tar			d Pressure(s): ated Thickness- 136', Associated Pressure- 8393
8) Proposed Total V	ertical Depth: 10,394			
9) Formation at Tota	al Vertical Depth Trento	n		
10) Proposed Total N	Measured Depth: 20045			
11) Proposed Horizo	ontal Leg Length: 9208.	13'		
12) Approximate Fro	esh Water Strata Depths:	259'		
13) Method to Deter	mine Fresh Water Depths:	- Salinity Profile,	Nearby Spring	
14) Approximate Sal	Itwater Depths: 377' TVE)		
15) Approximate Co	oal Seam Depths: 274'			
16) Approximate De	epth to Possible Void (coal	mine, karst, other):	Possible Voi	d 274'
	well location contain coal s adjacent to an active mine		N	To X
(a) If Yes, provide	Mine Info: Name:			
	Depth:			
	Seam:			
	Owner:			

OPERATOR WELL NO. Common Orania NO OHI 2H
Well Pad Name: Edward Dremak 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	30"	New	H-40	98.9#	0'	126' -	CTS
Fresh Water/Coal	20"	New	J-55	94#	0'	340' /	682 sx/CTS
Intermediate 1	13 3/8"	New	J-55	54.4#	0'	1300' -	1555 sx/CTS
Intermediate 1	13 3/8"	New	J-55	61#	1300'	1680' /	
Intermediate 2	9 5/8"	New	P-110 HP	43.5#	0'	9356'	1109 sx/CTS
Production	5 1/2"	New	P-110 HP	23#	0'	6000' -	431 sx/CTS
Production	5 1/2"	New	P-110 HP	23#	6000'	20045' -	Tail 2442 so/Tuo' misida intermediase

War 1/7/22

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Max. Associated Surface Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	30"	0.75	2780	81	Class A	1.19/50% Excess
Fresh Water/Coal	20"	24"	0.438	2110	633	Class A	1.19/50% Excess
Intermediate 1	13 3/8"	17.5"	0.33	2730	1768	Class A	1.19/50% Excess
Intermediate 1	13 3/8"	17.5"	0.33	2730	1768	Class A	1.68/1.25
Intermediate 2	9 5/8"	12 1/4"	0.395	5750	3898	Class A	1.68/1.25
Production	5 1/2"	8 3/4"	0.415	14520	9918	Class A	
Production	5 1/2"	8 3/4"	0.415	14520	9918	Class A	

PACKERS

Kind:		
Sizes:		
Depths Set:		

Office of Oil and Gas

JAN 1 3 2022

Wy Department of Environ mental Protection

03/04/2022

API NO. 47-069 - 00333

OPERATOR WELL NO. Edward Dremak UP OHI 2H
Well Pad Name: Edward Dremak OHI PAD

19	Describe	proposed	well	work.	inclu	ding th	e drillin	gand	plugging	back	of any	pilot h	ole:
	, 2001100	brobose a	***	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		~,		_ ~	P. ~ D D		V	P	

Drill approximately 100 ft into the Trenton formation and then set cement plug from TD to 400'-600' above KOP and then drill horizontally into the Utica. **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. Run casing not less than 20' below void nor more than 50'-75' below void. (*If freshwater is encountered deeper than anticipated it must be protected, set casing 50'75' below 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- 9000 lbs @ 100 barrels a minute.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 25.50
- 22) Area to be disturbed for well pad only, less access road (acres): 8.0
- 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.

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*Note: Attach additional sheets as needed.

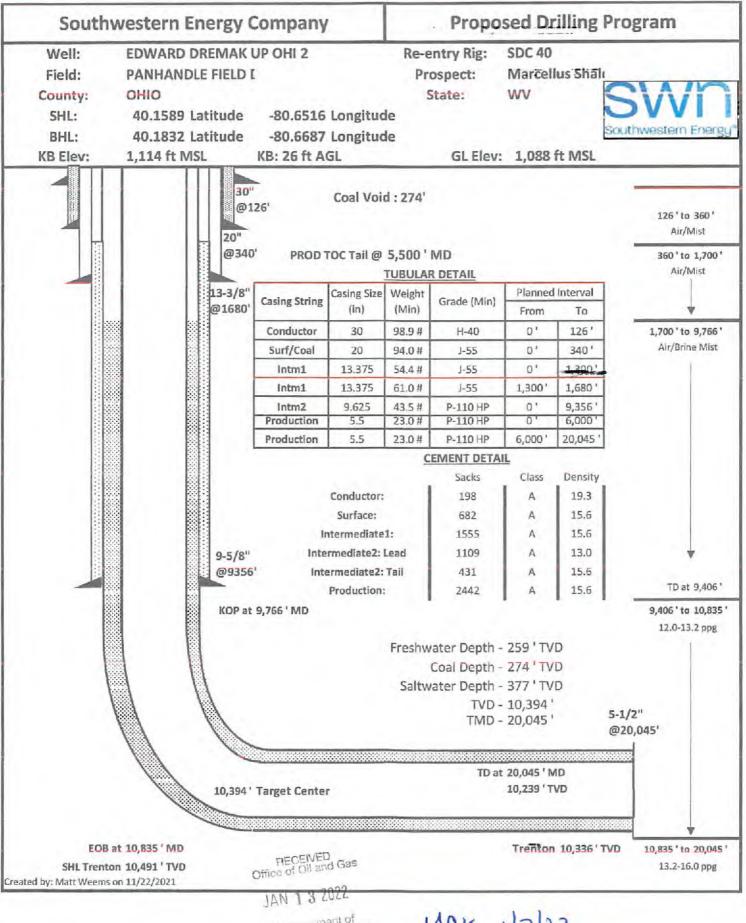
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			CEMENT	ADDITIVES		
INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Number
SURFACE (FRESHWATER)	><	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
up to 3%	5001	A-7P	CJ110	ACCELERATOR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

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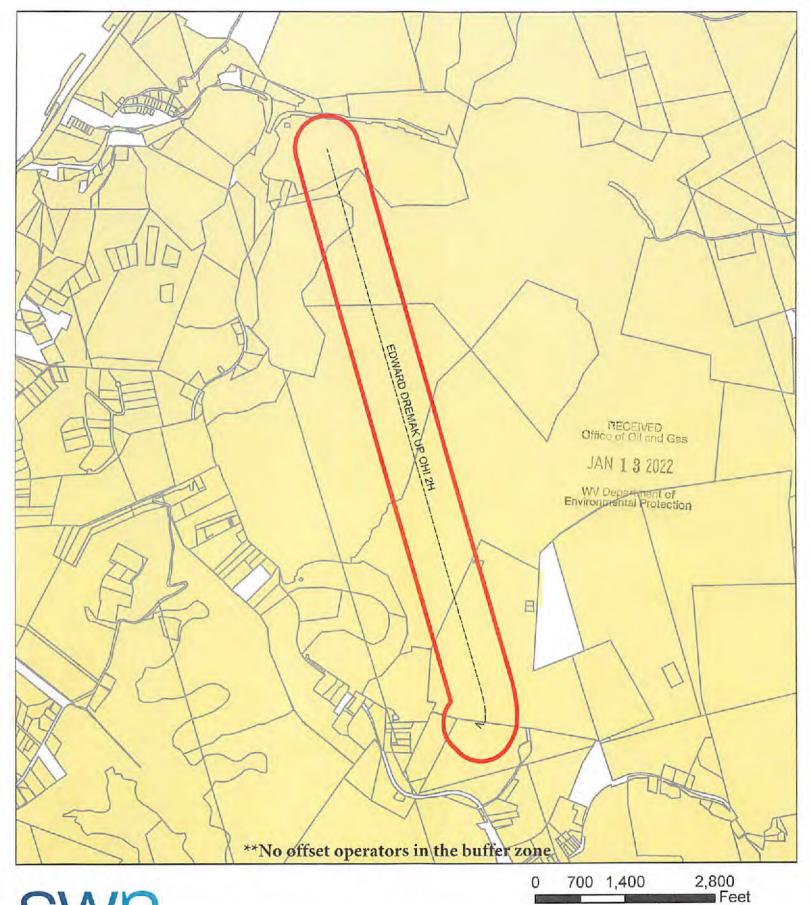
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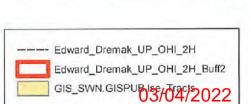




Edward Dremak UP OHI 2H Richland District Ohio County, WV

All other parcels are controlled by SWN

1 inch = 1,494 feet

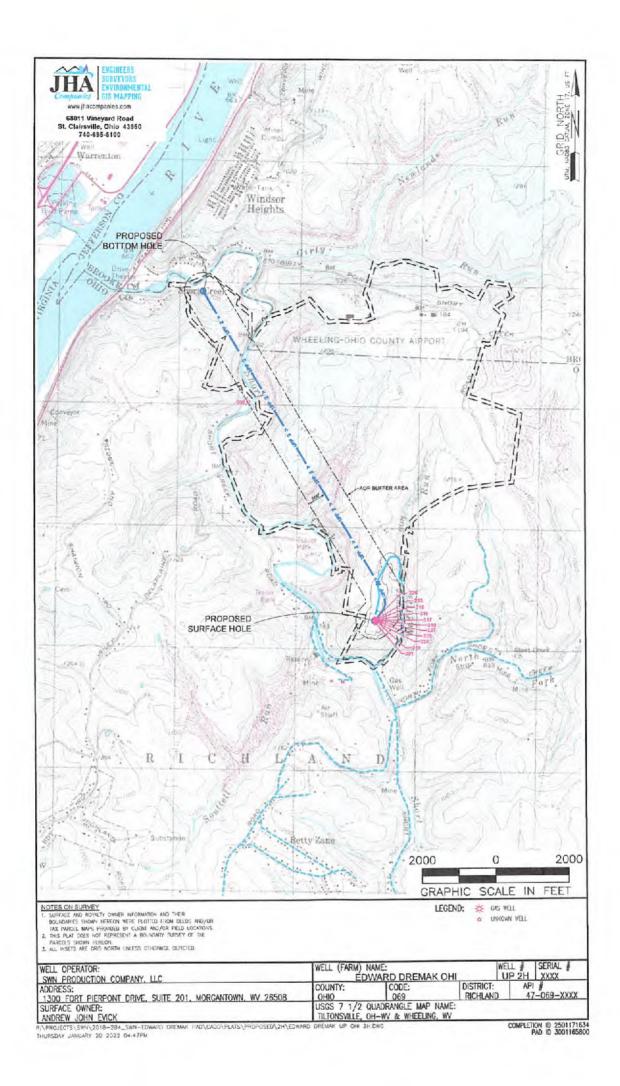


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MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN SWN PRODUCTION COMPANY, LLC

No offset Operators

ATTACHMENT 10
NAME & ADDRESSES OF OFFSET OPERATORS



API	Operator	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones Not Perforated
47-069-00226	SWN PRODUCTION COMPANY, LLC	ACTIVE	40.158776	80.651582	14008'	Marcellus	Tully, Hamilton, Geneseo, Big Injun
47-069-00213	SWN PRODUCTION COMPANY, LLC	ACTIVE	40.158759	80.651470	16393'	Marcellus	Tully, Hamilton, Geneseo, Big Injun

My commission expires_

Operator's Well No. Edward Dremak UP OHI 2H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name SWN Production Co., LLC	OP Code 494512924
Watershed (HUC 10) Upper Ohio South	Quadrangle Tiltonsville
Do you anticipate using more than 5,000 bbls of water to compl	ete the proposed well work? Yes V No
Will a pit be used? Yes No ✓	
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes	No ✓ If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection (UIC Permit	
Reuse (at API Number_At the next antic Off Site Disposal (Supply form WW	
Off Site Disposal (Supply form w w Other (Explain recovery and solidifica	
Will closed loop system be used? If so, describe: Yes- See Atta	achment 3A
Drilling medium anticipated for this well (vertical and horizontal	al)? Air, freshwater, oil based, etc. Affaits KOP fluid one with SOBM from KOP to TD
-If oil based, what type? Synthetic, petroleum, etcSy	nthetic Oil Base
Additives to be used in drilling medium? Attachment 3B	
Drill cuttings disposal method? Leave in pit, landfill, removed	offsite, etc. andfill
-If left in pit and plan to solidify what medium will be	
	- 1032, Short Creek SWF-1034,Carbon Limestone MSWL018781, Wetzel County 1021
Apex Sanitary Landtill Ub-U8438, Brooke Co SV	VF-1013,
Permittee shall provide written notice to the Office of Oil and G	as of any load of drill cuttings or associated waste rejected at any within 24 hours of rejection and the permittee shall also disclose
where it was properly disposed.	within 24 hours of rejection and the permittee state also disclose
I certify that I understand and agree to the terms and con August 1, 2005, by the Office of Oil and Gas of the West Vin provisions of the permit are enforceable by law. Violations of law or regulation can lead to enforcement action. I certify under penalty of law that I have personally application form and all attachments thereto and that, based	conditions of the GENERAL WATER POLLUTION PERMIT issued reginia Department of Environmental Protection. I understand that the fany term or condition of the general permit and/or other applicable examined and am familiar with the information submitted on this is on my inquiry of those individuals immediately responsible for rue, accurate, and complete. I am aware that there are significant lity of fine or imprisonment. PECEIVED Office of Oil and Gas JAN 13 2022
1.01	
Subscribed and sworn before me this 1st day of	November, 20 71
Kil Coutt	Notary Public REID CR Notary Public
	State of Wes

Notary Public Official Seal State of West Virginia My Comm. Expires Aug 21, 2024 47 Sparrow Lane Morgantown WV 26508

Perman	nent
Seed Type	lbs/acre
neered plans includi x D) of the pit, and	ing this info have been dimensions (L x W), a
-	PRECEIVED Office of Oil and Gas
	JAN 1 3 2022
En	WW Department of ivironmental Protection
	Er

Attachment 3A

CLOSED LOOP SYSTEM

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

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

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

AIR DRILLING INTERVALS

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

LIQUIDS DRILLING (FRESHWATER, BRINE, SOBM)

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

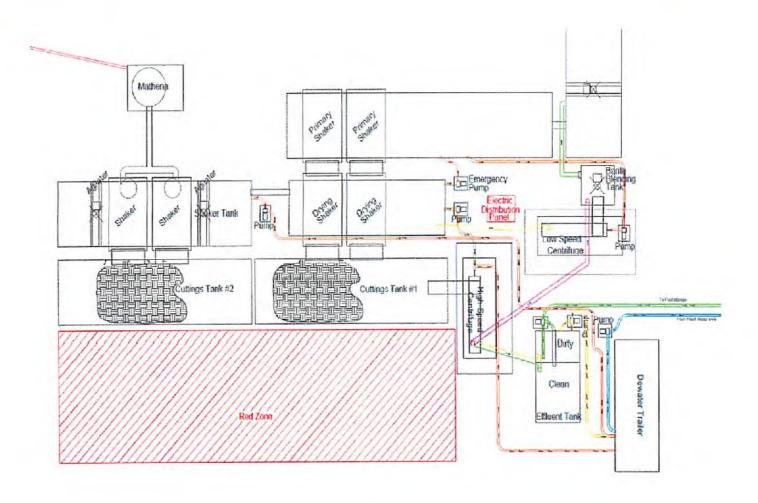
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Solids Control Layout





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Attachment 3B

Drilling Mediums

Surface/C	oal(if	present)	/Freshwater Intervals:

Air

Freshwater (if needed based on conditions)

Intermediate/Coal (if present):

Air

Production Hole:

Air

Synthetic Oil (Base Fluid for mud system)

Barite

Calcium Chloride

Lime

Organophilic Bentonite

Primary and Secondary Emulsifiers

Gilsonite

Calcium Carbonate

Friction Reducers

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WV Department of Environmental Protection

Rev. 6/11/2018



WVD Seeding Specification



To Order Seed contact Lyndsi Eddy Flippo	FR - FRO COC 4074	H FOA DOO FARA	the data and the Market areas.	Interes allows	7 to 10 days for delivered
To Order Seed contact Lynds: Eddy Flight	Office 570-996-0771	Cell 5U1-/69-5451	ivnasi eaay@swn.com	(Diease allow	A TO TO DOME TOUR DEHACTAL
to oraci occu contact cynasi cady imppo	SHIPE SIN SON ARLE	OCH DOX DED DIOR	the same of the sa	Age of the second secon	

NON-ORGANIC PROPERTIES		
Seed Mixture: ROW Mix	SWI	N Supplied
Orchardgrass	40%	
Timothy	15%	
Annual Ryegrass	15%	
Brown Top Millet	5%	
Red Top	5%	
Wedium 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	
ı	10-20-20 Fertilizer	0

"Apply @ 500lbs per Acre 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:

Pelletized Lime

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.

a last to castal fore duction One	namia Billiu	bailarus MACS
Seed Mixture: SWN Production Org	ganic iviix	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 Acro	ė	Pelletized Lime @ 2 Tons per Acre

Seed Mixture: Wetland Mix	SWN Sup	plied
VA Wild Ryegrass	20%	
Annual Ryegrass	20%	. 6
Fowl Bluegrass	20%	od Gas 1022 ent of roteotion
Cosmos 'Sensation'	10%	QP 02
Redtop	5%	PRECEIVED Gas Dring of Avy Decorated Protection of Avy Decoration Protection of Avy Decorated Protection Decorated Protection of Avy Decorated Protection of Avy Decorated Protection of Avy Decorated Protection Decorated Protec
Golden Tickseed	5%	Diffice of Pill
Maryland Senna	5%	AN AN
Showy Tickseed	5%	6
Fox Sedge	2.5%	1
Soft Rush	2,5%	
Woolgrass	2.5%	
Swamp Verbena	2.5%	
Apply @ 25lbs per acre April 16th- Oct. 14th		Apply @ 50lbs per acre Oct. 15th- April 15th

MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN



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

API NO. 47-XXX-XXXXX WELL NAME: Edward Dremak UP OHI 2H Tiltonsville & Wheeling QUAD Richland DISTRICT Ohio COUNTY, WEST VIRGINIA

Submitted by:		
Name: Brittany Woody Suttany Woody	Date: <u>11/1/2021</u>	
Title: Regulatory Analyst	SWN Production Co., LLC	
Approved by:		
Name: Handkud	Date: 1 2 32	
Title: Tuspetan		Office of Oil and Gas
Approved by:		JAN 1 3 2022
Name:	Date:	W/V Department of Environmental Protection
Title:		

SWN PRODUCTION COMPANY, LLC - CONFIDENTIAL



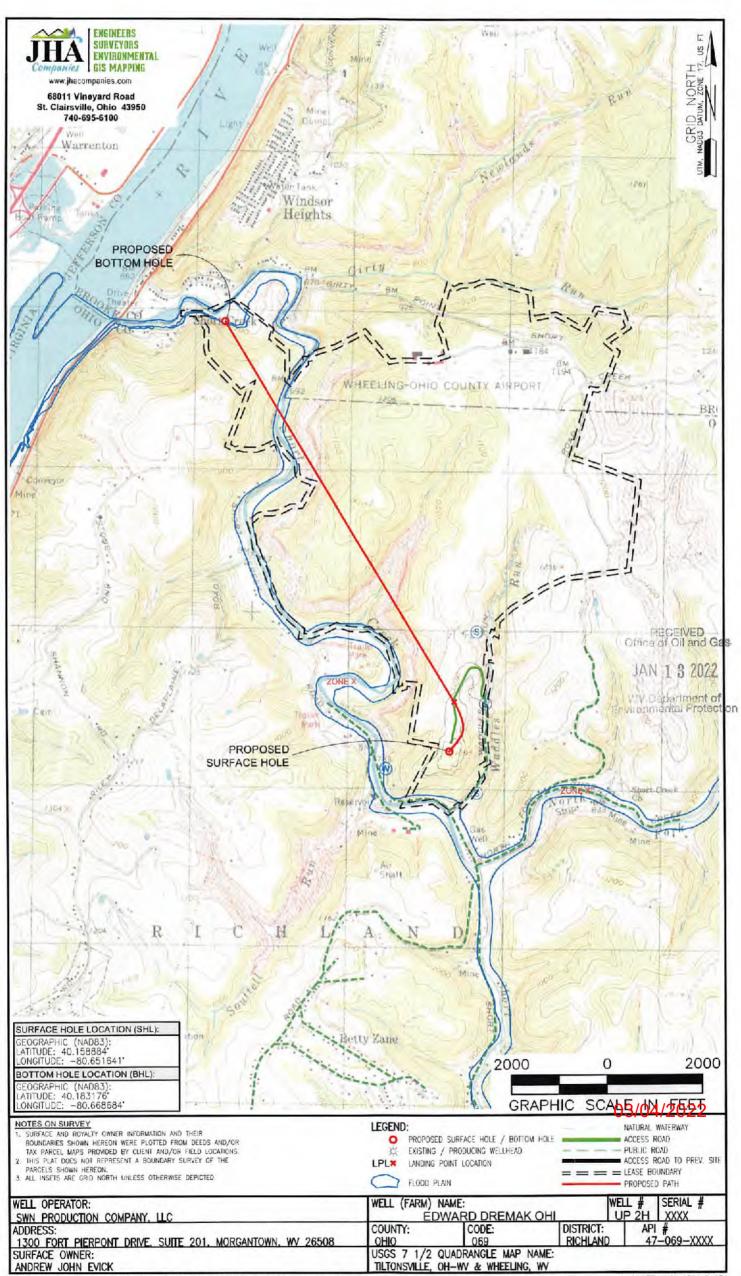
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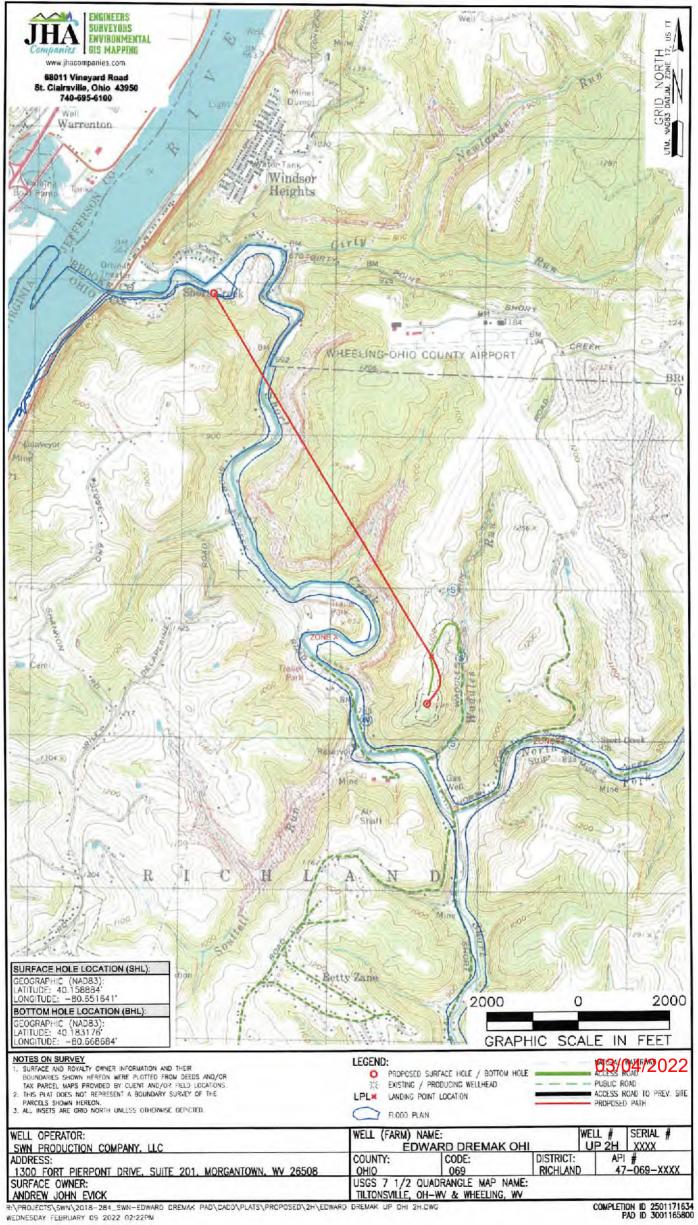
03/04/2022

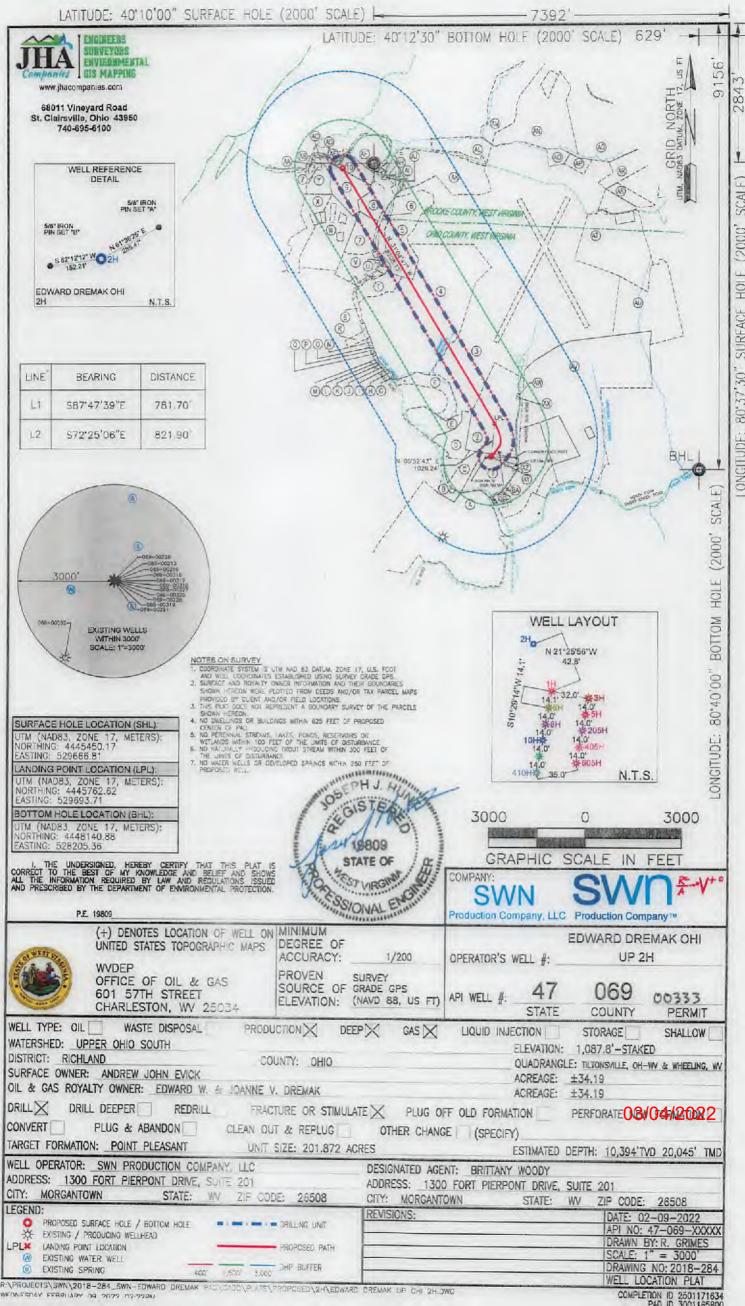
Office of Cas

JAN 13

WV Depa. Protection







SCALE

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HOLE

SURFACE

30,

80.37

	WELLBORE TABLE FOR SURF/ CE/ROYALTY OWNERS	
TRACT	SURFACE OWNER (S) / ROYALTY C WNER (R)	TAX PARCEL
1	EVICK ANDREW JOHN (5) DREMAK EDWARD W. & JOANNE V. (R)	04-R5-54
2	EVICK ANDREW JOHN (S) DREMAK EDWARD W. & JOANNE V. (R)	4-R5-49
3	BOARD OF COMM OHIO CO / WHG OHIO COUNTY AIRPORT AUTH (S) THE BOARD OF OHIO COUNTY COMMISIONERS (R)	4-R5-10
4	S E W TRUST WOLDSHAN SHANE E TRUSTEE (S)(R)	4-R5-9
5	MCCONNELL RODNEY K & N C (S)(R)	4-R2-20
6	MCCONNELL RODNEY K & N C (S)(R)	04-R2-9999-9999
7	DONZELLA GUY D & LORI R (S)(R)	4-R2-19
8	SENFTEN SYLVIA A - TOD (S) HAWRANICK SYLVIA A, GRANTOR, ASHCRAFT REBEKAH BENEFICIARY, TOD (R)	4-R2-18
9	CHILES PAMELA & RYAN (S) CHILES PAMELA (R)	4-R2-16
10	CHILES PAMELA SUE & RYAN (S)(R)	4-R2-17.2

ACT	SURFACE OWNER	TAX PARCE
A	CRAFT JOSEPH W III FOUNDATION	4-R8-6
В	CRAFT JOSEPH W III FOUNDATION	4-R5-52
C	CRAFT JOSEPH W III FOUNDATION	4-R5-53
D	WINDSOR COAL COMPANY C/O CNX LAND - PROPERTY TAX	4-R5-50
E	METZ JOHN W	4-R5-46
F	BURNT MILL ACRES LLC C/O MARK FOSTER	4-R5-13
G	KOEHLER JULIE A	4-R5-45.4
н	KOEHLER JULIE A	4-R5-45.13
1	TAYLOR HELEN	4-R5-12
1	TAYLOR HELEN	4-R5-14
K	FLICK HUMPHREY D JR & T M	4-R5-15
L	VILLANI DALE A & JENNIFER	4-R5-16
M	VILLANI DALE A & JENNIFER A	4-85-17.1
N	CONNER CHARLOTTE L	4-R5-17
0	ROUSH PATRICIA	4-R5-18
P	TRUBIANO ERVAN & NANCY - TOD	4-R5-19
	SOWIZRAL BRIAN W AND MELINDA K	4-R5-20.1
Q	HOSKINS DENNIS J & SHEINA L	4-R5-20.1
R		110 12 17 17 17
5	COAST HAROLD ET AL	4-R5-2.9
T	KUBOVICZ ROBERT C/O UNITED ELEC	4-R5-8
U	HARWATT EDITH ROSE	4-R5-8.2
٧	FRYE CHARLES H ETAL C/O DORIS ALTMEYER	4-R5-6
W	STENGER THOMAS H & M A	4-R2-6
X	STENGER THOMAS H & M A	4-R2-5.1
Y	MIDCAP MARY E	4-R2-14
2	PARKER TODD	4-R2-14.2
AA	HUFFMAN ROBERT L & DELMA LOU	4-R2-13
AB	WAGNER PHILIP N & WAGNER DENNIS D	4-R2-12
AC	NEIDER LEE M & ASHLEY N	4-R2-15
AD	UNITED STATES OF AMERICA	4-R2-15.1
AE	ROEDER DANIEL & JUDITH A JTWS	3-B45D-21
AF	ZEIDLER HENRY W & M F	4-R2-17
AG	ZEIDLER HENRY W;JUDITH; BURGRAF MARGARET	3-846-13
AH	SENFTEN SYLVIA A - TOD	4-R2-18.1
Al	MCCONNELL RODNEY K & N C	4-R2-18.2
AJ	MCCONNELL RODNEY K & NEDRA C	3-846-14
AK	ZEIDLER HENRY W; ZEIDLER JUDITH K; BURGGRAF MARGARET L	3-846-15
AL	GREATHOUSE BARRY L	3-B46-18
AM	GREATHOUSE BARRY L	3-B41-32
AN	GREATHOUSE BARRY L	3-841-83
AO	GREATHOUSE BARRY L	3-846-19
AP	HAYMAN FREDERICK CLAY JR HAYMAN STACY ANN (JTWS)	3-846-41
AQ	GREATHOUSE BARRY L	3-841-82
AR	BRITT DANNY GENE & VIRGINIA MARGARET (SURV)	3-B46-27
-	GILBERT TRACY	3-846-22.1
AS	BONAR BRUCE D-3/4 WILLIAM-1-4	3-846-20
AT	SEAMON MARC	4-R6-2
AU		10757
AV	BOARD OF COMM OHIO CO BLACK RICHARD L & DEBORAH K	4-R5-55
AW		4-R5-58.1
AX	WALLEY LARRY & LISA WINDSOR POWER COAL COMPANY C/O CNX LAND - PROPERTY	4-R5-58 4-R8-8.1
AY	TAX EVICK ANDREW JOHN	4-R5-54.1
AZ		4-R5-54.1 4-R8-8.18
BA	TUNNEL RIDGE LLC	4-40-0-19

REVISIONS:	COMPANY:	SWN Production Company LLC.	S Pri	oduction Company™
	OPERATOR'S WELL #: 47-00	The state of the s	REMAK OHI 2H	DATE: 02-09-2022 API NO: 47-069-XXXXX DRAWN BY:R. GRIMES
	DISTRICT: RICHLAND	COUNTY: OHIO	STATE: WV	SCALE: N/A DRAWING NO:2018-284 WELL LOCATION PLAT

WW-6A1 (5/13) Operator's Well No. Edward Dremak UP OHI 2H

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

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

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

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

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	for Miles
By:		Gavin Nadeau, RPL
Its:		Landman

Page 1 of

EXHIBIT "A"

Edward Dremak UP OHI 2H

Ohio County and Brooke County, West Virginia

Attached to and made a part of the State of West Virginia Oil and Gas Pertait Form, WW-6A1, by SWN Production Company, L.-C., Operator

#	TMP	ESSOR	LESSEE	ROYALTY	BK/PG
1)	04-C0R5-0054-0000	Edward W. Dremak and Joanne V. Dremak, hu sband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	16.75%	810/722 884/121
2)	04-C0R5-0049-0000	Edward W. Dremak and Joanne V. Dremak, hu shand and wife	Chesapial e Appalachia, L.L.C. SWN Production Company, LLC	16.75%	810/673 884/109
3)	04-C0R5-0010-0000	The Board of Ohio County Commissioners	Chesapeque Appalachia, L.L.C. SWN Production Company, LLC	18.00%	802/742 893/13
4)	04-C0R5-0009-0000	Shane E. Woloshan, Trustee of the S. E. W. Trust	Chesapeal & Appalachia, L.L.C. SWN Production Company, LLC	18.00%	812/384 884/193
5)	04-C0R2-0020-0000	Rodney K. McConn ill and Nedra C. McConnell, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	819/737 884/133
6)	04-(0R2-9999-9999	Rodney K. McConnell and Nedra C. McConnell, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	819/737 884/133
7)	04-()R2-0019-0000	Guy D. Donzella an I Leri R. Donzella, husband and wife	Chesapenke Appalachia, L.L.C SWN Production Company, LLC	18.00%	840/279 885/1
8)	04-C0R2-0018-0000	Sylvia A. Hawranick, grantor; Rebekah Ashcra I, beneficiary, Transfer on Death	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	845/204 885/53
9)	04-C0R2-0016-0000	Pamela Chiles, a single woman	Fossil Creek Ohio, LLC Gulfport Energy Corporation	18.00%	879/26 893/406
			American Petrols um Partners Operating, LLC SWN Production Company, LLC		933/77 946/405
10)	04-C0R2-0017-0002	Pamela Chiles and Fyan Chiles	SWN Production Company, LLC	18.00%	957/421

BOOK 918 PAGE 570

MEMORANDUM OF SURFACE USE AGREEMENT AND SUBSURFACE EASEMENT

THIS MEMORANDUM OF SURFACE USE AGREEMENT AND SUBSURFACE EASEMENT (the "Memorandum") is made and entered into this 23rd day of November, 2016 (the "Effective Date by between EDWARD W. DREMAK and JOANNE V. DREMAK, husband and wife, with an address of 503 Waddells Run Rd, Wheeling, WV 26003 ("Surface Owner") and SWN Production Company, LLC, a Texas limited liability company, with its principal office located at 10000 Energy Drive, Spring, Texas 77389 ("SWN").

WHEREAS, Surface Owner is the owner of all the interest in and to the surface of the following described lands located in Richland Country District, Ohio Country, West Virginia, further identified as Tax Parcel Identification Number 04-R5-49 being the same lands conveyed to Surface Owner by Deed dated the 12th day of April, 1957 of record in the office of the Recorder of Deeds of the Country of Ohio as more particularly described in Deed Book 388 at Page 349, containing 87.75 +/- acres, more or less

And

lands located in Richland Country District, Ohio County, West Virginia, further identified as Tax Parcel Identification Number 04-R5-54 being the same lands conveyed to Surface Owner by Deed dated the 30th day of March, 2004 of record in the office of the Recorder of Deeds of the County of Ohio, as more particularly described in Deed Book 749 at Page 468, containing 34.19 acres, more or less (hereinafter referred to as the "Lands").

WHEREAS, Surface Owner and SWN have entered into a Surface Use Agreement and Subsurface Easement dated the 23rd of November, 2016 (the "Agreement"), relating to the construction by SWN on the Lands of a Well Pad and Access Road for the purpose of drilling, completing, producing, operating and maintaining one or more oil and gas wells, (the "Wells") thereon, in particular the Edward Dremak Well Pad.

NOW THEREFORE, in consideration of the mutual covenants and agreement contained in the Agreement, Surface Owner and SWN do hereby agree as follows:

- 1. This Memorandum has been executed and recorded for the purpose of indicating, evidencing, and notifying third parties as to the existence and effect of the Agreement, including the Exhibit "A". Notwithstanding anything to the contrary herein or elsewhere, this Memorandum shall not in any way alter, amend, supplement or otherwise modify the terms of the Agreement.
- 2. Under the Agreement, Surface Owner(s) settled with, released, remised, and fully and forever discharged SWN, its parent company and affiliates, and its and their agents, employees, officers, directors, designees, contractors, subcontractors, successors and assigns, from any and all claims, demands, losses, damages, whether arising in tort, contract, strict liability, under statute, or of any other character whatsoever, for and on account of damages to the Lands arising from or relating to SWN's use, improvement and occupancy of the Lands, or in consequence of its use of the Facilities for drilling, completion, production, operation and maintenance under the Agreement.
- 3. Under the Agreement Surface Owner hereby granted unto SWN, and its successors and assigns, an exclusive easement and right-of-way on, over and across the LOD (as such term is defined below) for the purpose of construction, use and maintenance of the Facilities (as defined below) and drilling one or more vertical and/or horizontal Wells whose surface location is on the Lands, and whose subsurface may be, in whole or in part, on the Lands, on lands pooled therewith, or on other lands, in search for oil and gas and their liquid or gaseous constituents, together with the right to conduct operations as may be prudent or necessary, including without limitation, operations to establish, re-establish, or increase the deliverability of hydrocarbon production, and to field process, separate, dehydrate, treat, store, compress, gather, and transport the same and any non-hydrocarbon substances produced in association therewith.

4. THE FACILITIES.

- a. The term "Facilities", as used in the Agreement, means, well pads, access roads, waterlines, production equipment and flowlines, tanks, fences, power lines, pumps, valves, launchers, meters, materials and any other structures, improvements, fixtures or equipment necessary or convenient for the drilling, completion, production, operation and maintenance of any Wells drilled with a surface location on the Lands.
- b. The area of the Lands to be cleared, altered, used and occupied by SWN pursuaprants 2022 Agreement shall be within the approximate limits of disturbance of the Facilities (the "LOD") depicted on Exhibit "A", attached hereto and made a part hereof.

BOOK 918 PAGE 571

- c. Under the Agreement, SWN shall have the right, at any time, to maintain, repair, remove, replace, and/or change the size of any Facilities or any portions thereof within the LOD as depicted on Exhibit "A" without obligation to pay Surface Owner or any third party additional damages.
- d. Under the Agreement, SWN, in its sole discretion, may install a security fence around the well pad perimeter and/or Facilities.
- e. Under the Agreement, SWN shall have the right to mow, cut, and remove all saplings, tree limbs, weeds, undergrowth, brush, and/or other obstructions within or encroaching on the LOD which, in the sole discretion of SWN, may injure, endanger, or interfere with the use of the Facilities or the right of SWN's use and enjoyment.
- 5. INGRESS AND EGRESS. Under the Agreement, SWN shall have all the rights and benefits necessary or convenient for the full enjoyment or use of the LOD and SWN's Facilities thereon for their contemplated use, including, but not limited to, the free right of ingress and egress, over, across, and through the Lands to and from the LOD and the Facilities and, as necessary, any and all subsurface usage thereunder.
- 6. Under the Agreement, Surface Owner further granted unto SWN, the right of subsurface easement to drill, complete, equip, produce and operate one or more wellbores through the subsurface of the Lands, including without limitation, the right to repair, maintain, re-drill, deepen, plug back, recomplete, rework, recondition, clean out, sidetrack, remove, plug and abandon and inject gas or other substances into such wellbore(s), and to conduct other operations as may be prudent or necessary on or with respect thereto, including, without limitation, any and all operations deemed by SWN to be necessary or desirable to establish, re-establish, or increase the deliverability of hydrocarbon production therefrom.
- 7. Under the Agreement, Surface Owner further granted unto SWN, the right to drill one or more Deep Wells (as that term is defined in Section 22C-9-2 of the West Virginia Code) for the production of oil and/or gas from the Lands. Surface Owner further agreed that the Agreement satisfied all requirements of Operator under 22C, Article 9-7 (b) (4) of the West Virginia Code.
- 8. The Agreement shall run with the land and shall bind Surface Owner and SWN and their respective successors, personal representatives, heirs and assigns. The easements granted herein are appurtenant to the Wells and the land to which the production of hydrocarbons from such Wells are attributable (the "Appurtenant Lands") and run with the Wells and such lands.
- 9. The Agreement shall remain in full force and effect during the period commencing on the Effective Date and expiring upon the expiration of all oil and gas leases of SWN covering the Appurtenant Lands; provided that SWN shall have the right at any time to remove its fixtures, equipment and materials, including well casing, from the Lands and to perform any required restoration thereof within a reasonable time after the expiration of such term.
- 10. This Memorandum may be executed in one or more counterparts, each of which, when executed and delivered, shall be an original, but all of which shall together constitute one and the same instrument. For purposes of the foregoing, facsimile signatures or signatures transmitted by email or .pdf shall have the same force and effect as original signatures.
- 11. For realty transfer tax purposes, the value of the property rights herein conveyed is FORTY-SEVEN THOUSAND FOUR HUNDRED DOLLARS and 00/100 (\$47,400.00).

SURFACE OWNER:

EDWARD W. DREMAK

OANNE V. DREMAK

SWN:

SWN PRODUCTION COMPANY, LLC

By: Stephen M. Guidry

Its: Vice President - Land

03/04/2022

ACKNOWLEDGEMENTS

ACKNOWLEDGMENT	
STATE OF West Virginia & SS: COUNTY OF OHIO & SS:	
On this	me (or ag and
IN WITNESS WHEREOF, I hereunto set my hand and official seal. My Commission Expires on March 22, 2021	
Official Seal Commissioner for West Virginia Michael Paul Yates West Monroe,LA My Cemmissien Expires March 22,2021 Notary Public	
CORPORATE ACKNOWLEDGMENT	
STATE OF TEXAS \$ \$ SS: COUNTY OF HARRIS \$	
On this 2 Day of 2010 2010 2010 2010 2010 2010 2010 201	y, LLC, ent for
IN WITNESS WHEREOF, I hereunto set my hand and official seal. My Commission Expires on: Nay 39,3019	7
DANIEL TOWNSEND Notary Public. State of Texas My Commission Expires May 29, 2019	

THIS AGREEMENT PREPARED BY SWN PRODUCTION COMPANY, LLC

Return to: SWN Production Company, LLC ATTN: Land Department 179 Innovation Drive Jane Lew, WV 26378

Ohio County
Michael E. Kelly OcieOx4/2022
Instrument 19658355
04/17/2017 @ 09:12:54 AM
AGREEMENT
Book 918 @ Pase 570
Pages Recorded 3
Recording Cost \$ 31.00
Iransfer Tax \$ 209.00

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

Date of Notic	ce Certification:		API No. 47	7- 069	- 00333
Sant poorter			Operator's	Well	No. Edward Dremak UP OHI 2H
			Well Pad N		Edward Dremak OHI PAD
Notice has l	been given:				
	ne provisions in West Virginia Code § 22-6A, th	e Operator has pro	vided the rec	quired p	parties with the Notice Forms listed
	tract of land as follows:				
State:	WV	UTM NAD 83	Easting:	529,666	5.81
County:	069-Ohio	OTM NAD 83	Northing:	4,445,4	50.17
District:	Richland	Public Road Ace	cess:	North F	ork Road
Quadrangle:	Tiltonsville & Wheeling	Generally used t	arm name:	Edward	I Dremak
Watershed:	Upper Ohio South			1	
Pursuant to 1	West Virginia Code § 22-6A-7(b), every peri	mit application fil	ed under thi	s section	on shall be on a form as may be
	the secretary, shall be verified and shall contain				
		D. 1. 1	1 543		and the state of t

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

Pursuant to West Virginia Code § 22-6A, the Op that the Operator has properly served the require *PLEASE CHECK ALL THAT APPLY	erator has attached proof to this Notice Certification d parties with the following:	OOG OFFICE USE ONLY
☐ I, NOTICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	☐ RECEIVED/ NOT REQUIRED
\square 2. NOTICE OF ENTRY FOR PLAT SURV	YEY or NO PLAT SURVEY WAS CONDUCTED	☐ RECEIVED
3. NOTICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	RECEIVED/ NOT REQUIRED
	WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
■ 4. NOTICE OF PLANNED OPERATION	(PLEASE ATTACH) RECEIVED Office of Oil and Gas	☐ RECEIVED
■ 5. PUBLIC NOTICE	1 4 9 (01-	☐ RECEIVED
■ 6. NOTICE OF APPLICATION	JAN 1 of WV Department of Environmental Protection	☐ 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:

, have read and understand the notice requirements within West Virginia Code § 22-THEREFORE, I 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 Analyst

Telephone: 304-884-1610 Address: 1300 Fort Pierpont Dr. Suite 201

Morgantown, WV 26505

Facsimile: 304-884-1690

Email: Brittany_Woody@swn.com

REID CROFT Notary Public Official Seal State of West Virginia My Comm. Expires Aug 21, 2024 Sparrow Lane Morgantown WV 26508

1st day of November Subscribed and sworn before me this

My Commission Expires

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.

> JAN 1 3 2022 WV Department of Environmental Protection

WW-6A (9-13) API NO. 47- 069 OPERATOR WELL NO. Edward Dremak UP OHI 2H
Well Pad Name: Edward Dremak OHI PAD

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

Date of Notice: Date Permit Appl Notice of:	1	12	
		PROVAL FOR THE AN IMPOUNDMENT OR PIT	
Delivery method pursuant to West Virginia	Code § 22-6A-11	0(b)	
☐ PERSONAL ☑ REGISTERED MAÎL		OD OF DELIVERY THAT REQUIRES A IPT OR SIGNATURE CONFIRMATION	
certificate of approval for the construction of an registered mail or by any method of delivery that sediment control plan required by section seven the surface of the tract on which the well is or is oil and gas leasehold being developed by the prodescribed in the erosion and sediment control ploperator or lessee, in the event the tract of land of more coal seams; (4) The owners of record of the well work, if the surface tract is to be used for the impoundment or pit as described in section nine have a water well, spring or water supply source provide water for consumption by humans or do proposed well work activity is to take place. (c) (subsection (b) of this section hold interests in the records of the sheriff required to be maintained provision of this article to the contrary, notice to	impoundment or p t requires a receipt of this article, and a proposed to be loc posed well work, i an submitted pursua on which the well p e surface tract or tra- te placement, const of this article; (5) / e located within one mestic animals; and 1) If more than three e lands, the applica pursuant to section a lien holder is not operator shall also p	e of the application, the applicant for a permit for any it as required by this article shall deliver, by personal or signature confirmation, copies of the application, the well plat to each of the following persons: (1) The ated; (2) The owners of record of the surface tract or if the surface tract is to be used for roads or other land ant to subsection (c), section seven of this article; (3) roposed to be drilled is located [sic] is known to be tracts overlying the oil and gas leasehold being development, enlargement, alteration, repair, removal or althousand five hundred feet of the center of the well (6) The operator of any natural gas storage field with the tenter of the documents required upon the person eight, article one, chapter eleven-a of this code. (2) No motice to a landowner, unless the lien holder is the larovide the Well Site Safety Plan ("WSSP") to the surface provided in section 15 of this rule.	service or by the erosion and e owners of record of tracts overlying the I disturbance as The coal owner, anderlain by one or ped by the proposed bandonment of any o the applicant to pad which is used to hin which the described in described in the Notwithstanding any andowner, W. Va.
	E&S Plan Notice	☑ Well Plat Notice is hereby provided to:	/
SURFACE OWNER(s)	/	☑ COAL OWNER OR LESSEE Name: Consolidated Coal Company %Leatherwood	PECEIVED Gas
Name; Andrew J. Evick Address; 659 Springdale Ave	_	Address: 1000 Consol Energy Drive	Office of Oil and Gas
Wheeling, WV 26004		Canonsburg, PA 15317	
Name:	_	T COAL OPERATOR	- JAN 1 3 2022
Address:		Name:	nonartment of
- 1334		Address:	With the Protection
SURFACE OWNER(s) (Road and/or Other	Disturbance)	Name: Address:	EUAllerin
Name:		SURFACE OWNER OF WATER WELL	
Address;		AND/OR WATER PURVEYOR(s)	
		Name: See Attachment 13A	_
Name:		Address:	
Address:			
		OPERATOR OF ANY NATURAL GAS STO	
SURFACE OWNER(s) (Impoundments or		Name:	_
Name:	-	Address:	_
Address:		*Please attach additional forms if necessary	_

API NO. 47-069 OPERATOR WELL NO. FOR MICH DEPOSIT OF THE PROPERTY OF THE PROP Well Pad Name: Edward Dremak 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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-MICHELL San and-gas/pages/default.aspx.

Well Location Restrictions

JAN 1 3 2022 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 or domestic animal consumption. 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. 47-069 - 00333

OPERATOR WELL NO. Edward Dromak UP OHI 2H
Well Pad Name: Edward Dromak 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 57th St. SE
Charleston, WV 25304
(304) 926-0450

JAN 13 2022

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.

API NO. 47- 069 - 00 333

OPERATOR WELL NO. Edward Dremak UP OHI 2H

Well Pad Name: Edward Dremak 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 http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

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

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

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

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

Office of Oil and Gas

JAN 1 3 2022

API NO. 47-069 OPERATOR WELL NO. Edward Dremak UP DHI 24 Well Pad Name: Edward Dremak OHI PAD

Notice is hereby given by:

HOUN'S Madix Well Operator: SWN Production Co., LLC

Telephone: 304-884-1610

Email: Brittany_Woody@swn.com

Address: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26505

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.

REID CROFT Notary Public Official Seal State of West Virginia Comm. Expires Aug 21, 2024 rrow Lane Morgantown WV 26508

Subscribed and sworn before me this 15th day of Nov , 2021

Notary Public

My Commission Expires August 21, 2024

CON CALLENTO GAS JAN 1 3 2022

WV Department of Environmental Protection

OWNER	ADDRESS	CITY_STATE_ZIP	WATERSOURCES
EVICK ANDREW J.	503 Waddells Run Road	WHEELING WV 26003	1
WADDELL CHRISTOPHER A	116 WADDELLS RUN RD	WHEELING WV 26003	1
WOLEN PATRICIA A & D F	1826 SHORTCREEK	WHEELING WV 26003	2

Office of Oil and Gas

JAN 1 3 2022

WW Department of Environmental Protection

WW-6A4 (1/12) Operator Well No. Edward Dramak OHI UP 2H

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		provided at least TEN (10) days prior to filing a Date Permit Application Filed:	permit application.
Delivery met	hod pursuant to West Virgin	a Code § 22-6A-16(b)	
☐ HAND	■ CERTIFIED	IAII	
DELIVE		CEIPT REQUESTED	
DELIVE	act actorica	Ell I REQUESTED	
receipt request drilling a hor of this subsection mand if availab	sted or hand delivery, give the izontal well: <i>Provided</i> , That re- tion as of the date the notice way be waived in writing by the		ne surface owner's land for the purpose of an of this article satisfies the requirements of this ude the name, address, telephone number, or's authorized representative.
	Springdale Avenue	Name:Address:	JAN 1 3 2022
The second second	eling, WV 26003	Address.	Covirtumental Protection
State: County:	West Virginia Ohio	rilling a horizontal well on the tract of land as for UTM NAD 83 Easting: Northing:	529,666.81 4,445.450.17
District:	Richland	Public Road Access:	Waddells Run
Quadrangle:	Tiltonsville, OH-WV & Wheeling, WV	Generally used farm name:	Edward Dremak
Watershed:	Upper Ohio South		
Pursuant to 'facsimile nur related to hor	mber and electronic mail addi- rizontal drilling may be obtain	16(b), this notice shall include the name, address of the operator and the operator's authorized from the Secretary, at the WV Department of V 25304 (304-926-0450) or by visiting www.de	ed representative. Additional information of Environmental Protection headquarters,
Notice is he	reby given by:		
	SWN Production Company, LLC	Authorized Representative:	Mike Yates
Address:	1300 Fort Pierpont Drive, Suite 20	Address:	1300 Fort Pierpont Drive, Suite 201
	Morgantown, WV 26508		Morgantown, WV 26508
Telephone:	304-884-1714	Telephone:	304-884-1714
Email:	Michael Yates@swn.com	Email:	Michael Yales@swn.com
Facsimile:		Facsimile:	

Oil and Gas Privacy Notice:

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

WW-6A5 (1/12) Operator Well No. Edward Dremak OHI UP 2H

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

Date of Notice	Requirement: notice shall be provided: 10: 01/04/2022 Date Permi	Application Filed:	10		
Delivery met	thod pursuant to West Virginia Code	e § 22-6A-16(c)			
■ CERTI	FIED MAIL	☐ HAND			
	RN RECEIPT REQUESTED	DELIVERY			
return receipt the planned of required to be drilling of a l damages to th (d) The notice of notice. Notice is her	V. Va. Code § 22-6A-16(c), no later to requested or hand delivery, give the superation. The notice required by this exprovided by subsection (b), section to horizontal well; and (3) A proposed subsection shall be given by provided to the SURFACE OWNs listed in the records of the sheriff at the required by this section shall be given by provided to the SURFACE OWNs.	urface owner whose lan- s subsection shall inclu- en of this article to a surf- urface use and compen- utions to the extent the di- en to the surface owner NER(s)	d will be used for de: (1) A copy ace owner whose sation agreement amages are com	or the drilling of of this code se se land will be un the containing and pensable under	a horizontal well notice of ction; (2) The information sed in conjunction with the other of compensation for article six-b of this chapter.
Name: Andr	ew J. Evick	Name:			
Name: Andr Address: 659 S Whee	Springdale Avenue eling, WV 26003 eby given:	Addres		well operator ha	s developed a planned
Name: Andr Address: 659 9 Whee Notice is her Pursuant to W operation on State; County:	eling, WV 26003 eby given: Vest Virginia Code § 22-6A-16(c), noti the surface owner's land for the purpo West Virginia Ohio	Addres ice is hereby given that the second drilling a horizontal to the second drilling a horizontal	he undersigned al well on the tra Easting: Northing:	529,666.81 4,445,450.17	s developed a planned
Name: Andr Address: 659 s Whee Notice is her Pursuant to W operation on State: County: District:	eling, WV 26003 eby given: Vest Virginia Code § 22-6A-16(c), noti the surface owner's land for the purpo West Virginia Obio Richland	Addres Addres ice is hereby given that the se of drilling a horizontal to the control of the c	he undersigned al well on the tra Easting: Northing: Access:	529,666.81 4,445,450.17 Waddells Run	s developed a planned
Name: Andr Address: 659 8 Whee Notice is her Pursuant to W operation on State: County:	eling, WV 26003 eby given: Vest Virginia Code § 22-6A-16(c), noti the surface owner's land for the purpo West Virginia Ohio	Addres Addres ice is hereby given that the se of drilling a horizontal to the control of the c	he undersigned al well on the tra Easting: Northing:	529,666.81 4,445,450.17	s developed a planned
Name: Andr Address: 659 8 Whee Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice 8 Pursuant to W to be provide horizontal we surface affect information of	eling, WV 26003 eby given: Vest Virginia Code § 22-6A-16(c), notifies surface owner's land for the purpo West Virginia Ohio Richland Tiltonsville, OH-WV & Wheeling, WV Upper Ohio South Shall Include: Vest Virginia Code § 22-6A-16(c), this ed by W. Va. Code § 22-6A-10(b) to cell; and (3) A proposed surface use and ted by oil and gas operations to the excellated to horizontal drilling may be concluded at 601 57th Street, SE, College of the cell of the concluded at 601 57th Street, SE, College of the cell of the c	Addressice is hereby given that the set of drilling a horizontal UTM NAD and Public Road Generally us a notice shall include: (1) a surface owner whose driving a compensation agreement the damages are contained from the Secretary of the secreta	he undersigned al well on the tra Easting: Northing: Access: ed farm name:)A copy of this e land will be ent containing an ompensable underly, at the WV	set of land as fol 529,666.81 4,445,450.17 Waddells Run Edward Dremak code section; (2 used in conjunct offer of competer article six-b	2) The information required a constitution with the drilling of a constitution for damages to the of this chapter. Additional Environmental Protection www.dep.ww.gow/ofBand-mand Gas
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Oil and Gas Privacy Notice:

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



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

Byrd E. White, III Secretary of Transportation/ Commissioner of Highways Jimmy Wriston, P. E. Deputy Secretary/ Deputy Commissioner

May 28, 2021

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

Subject: DOH Permit for the Edward Dremak Pad, Ohio County

Edward Dremak UP OHI 2H Well Site

Office of Oil and Gas

JAN 1 3 2022

WV Department of Environmental Protection

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2017-0100 which has been issued to Southwestern Energy for access to the State Road for a well site located off Ohio County Route 1/1 SLS MP 0.50.

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.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Brittany Woody Southwestern Energy

CH, OM, D-6

File

2

E.E.O./AFFIRMATIVE ACTION EMPLOYER

4706900333

roduct Name	Product Use	Chemical Name	CAS Number
1-303 (U.S. Well Services)	Mixture	Ethylene glycol	107-21 1
		Cinnamaldehyde	104-55 2
		Butyl cellosolve	111-76 2
		Formic acid	64-18 6
		Polyether	Proprietary
		Acetophenone, thiourea, formaldehyde polymer	68527-49 1
P ONE (U.S. Well Services)	Breaker	Ammonium persulfate	7727-54-0
actron K-139 (Champion Technologies)	Biocide	Glutaraldehyde	111-30-8
action is any females and including any	District		Tanaha a
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides Ethanol	68424-85-1 64-17-5
actron K-219 (Champion Technologies)	Biocide	Methanol	67-56-1
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
arboNRT	Tracer	Geramic Proppant	66402-68-4
C6486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate Ethylene Glycol	Proprietary 107-21-1
C6734A (Champion Technologies)	Biocide	Hydrogen Peroxide	7722-84-1
corsus (champion recimologies)	plocide	Acetic Acid	64-19-7
		Peroxyacetic Acid	79-21-0
and the second s	* ***		67-56-1
cona-CI200 (SWN Well Services)	Corrosion Inhibitor	Methanol	
		Oxyalkylated fatty acid	68951-67-7
		Fatty acids	61790-12-3
		Modified thiourea polymer	68527-49-1
		Water	7732-18-5
		Hydrochloric acid	7647-01-0
		Potassium acetate	127-08-2
		Formaldehyde	50-00-0
copol-FEAC (SWN Well Services)	Iron Control	Acetic Acid	64-19-7
		Citrle Acid	77-92-9
		Water	7732-18-5
DP-51176-15 (Halliburton)	Friction Reducer	Polyacylate	Proprietary
or arrivers (regimentall)		Hydrotreated light petroleum distillate	54742-47-8
a management to the standard t	Edeler Ballings		64674-47-8
OJET DR900 LPP (5WN Well Services)	Friction Reducer	Distillates (petroleum) hydrotreated light	107-21-1
		Ethylene Glycol	68213-24-1
		Alcohols, C12-16, Exoxylated propoxylated	
		Fatty Alcohols ethoxylated	Proprietary
		Water	7732-18-5
LOJET DRP 1130X (SWN Well Services)	Friction Reducer	Proprietary	Proprietary
R-75 (Halliburton)	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
		Inorganic Salt	Proprietary
YPTRON T-390 (Champion Technologies)	Scale Inhibitor	Methanol	67-56-1
TELEGIA 1-050 (CITATION TOCIMOSBICS)	Searc Hillerton	Nonylphenol Ethoxylate	Proprietary
AI-150E (Halliburton)	Corresion Inhibitor	No hazardous substance	N/A
		Hydrochloric Acid	7647-01-0
CL (SWN Well Services)	Hydrocholle Acid	Water	7732-18-5
		71000	
P-65 MC (Halliburton)	Scale Inhibitor	Organic phosphonate	Proprietary
		Ammonium Chloride	12125-02-9
PTI-FLEX (U.S. Well Services)	Viscosifying Agent	Distillates, petroleum, hydrotreated light	64742-47-8
lexslick 930	Friction Reducer	Copolymer of 2-propenamide	Proprietary
		Hydrotreated Distillate	64742-47-8
		Sadium Chloride	7647-14-5
		Alcohols, C12-16, Exoxylated	68551-12-2
		Oleic Acid Diethanolamide	93-83-4
		Ammonium Chloride	12125-02-9
standist of a	Eriction Coduces	Petroleum Distillate	64742-47-8
Piexslick 953	Friction Reducer	Sodium Chloride	7647-14-5
		provide the state of the state	12125-02-9
		Ammonium Chloride N,N-bis (2-hydroxyethyl) cleamide	93-83-4
			July User 19
	Tarana and Tarana		E4747 47 F
Plexslick 957	Friction Reducer	Petroleum Distillate	54742-47-8
Vexslick 957	Friction Reducer	Petroleum Distillate Ammonium Chloride	12125-02-9
Plexslick 957	Friction Reducer	Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide	12125-02-9 93-83-4
Vexslick 957	Friction Reducer	Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated	12125-02-9 93-83-4 68551-12-2
Plexslick 957	Friction Reducer	Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide	12125-02-9 93-83-4 68551-12-2 7782-15-5
	Friction Reducer Anionic Friction Reducer	Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8
		Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water	12125-02-9 93-83-4 68551-12-2 7782-15-5
WFRA-2000 (U.S. Well Services)		Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Hydrotreated light distillate (petroleum)	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8
NFRA-2000 (U.S. Well Services) Plexald 555 NM	Anionic Friction Reducer	Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid)	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-05-9
NFRA-2000 (U.S. Well Services) Plexald 555 NM	Anionic Friction Reducer	Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, G12-16, Exoxylated Water Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde	12125-02-9 93-83-4 68551-12-2 7782-15-5 64742-47-8 9003-05-9 15827-30-8
NFRA-2000 (U.S. Well Services) Plexald 555 NM	Anionic Friction Reducer	Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, G12-16, Exoxylated Water Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-05-9 15827-30-8 69418-26-4
NFRA-2000 (U.S. Well Services) Plexald 555 NM	Anionic Friction Reducer	Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI)	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-05-9 15827-30-8 69418-26-4 64742-47-8
WFRA-2000 (U.S. Well Services) Plexald 555 NM Plexslick 922	Anionic Friction Reducer Scale inhibitor no data available	Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Cleic Acid Diethnolamide	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-05-9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4
WFRA-2000 (U.S. Well Services) Plexald 555 NM Plexslick 922	Anionic Friction Reducer	Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Cleic Acid Diethrolamide Tetrakis (hydroxymethyl) phosphonium sulphate	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-05-9 15827-30-8 69418-26-4 64742-47-8 12125-02-9
WFRA-2000 (U.S. Well Services) Plexald 555 NM Plexslick 922	Anionic Friction Reducer Scale inhibitor no data available	Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Cleic Acid Diethnolamide Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-05-9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8
NFRA-2000 (U.S. Well Services) Plexald 655 NM Plexslick 922 Toldide PS50A	Anionic Friction Reducer Scale Inhibitor no data available Biocidal product	Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, G12-16, Exoxylated Water Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)Cl) Cleic Acid Diethnolamide Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups	12125-02-9 93-83-4 68551-12-2 7782-15-5 64742-47-8 9003-05 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-88-4 55566-30-8
WFRA-2000 (U.S. Well Services) Plexald 655 NM Plexslick 922 Tolcide PS50A	Anionic Friction Reducer Scale inhibitor no data available	Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, G12-16, Exoxylated Water Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Cleic Acid Diethnolamide Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups Hydrotreated light petroleum distillate	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06-9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8
WFRA-2000 (U.S. Well Services) Plexald 655 NM Plexslick 922 Tolcide PS50A	Anionic Friction Reducer Scale Inhibitor no data available Biocidal product	Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, G12-16, Exoxylated Water Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)Cl) Cleic Acid Diethnolamide Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-05-9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8
Plexslick 957 WFRA-2000 (U.S. Well Services) Plexslick 922 Tolcide PS50A	Anionic Friction Reducer Scale Inhibitor no data available Biocidal product	Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, G12-16, Exoxylated Water Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)Cl) Cleic Acid Diethnolamide Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups Hydrotreated light petroleum distillate Ethoxylated alcohol	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-05-9 15527-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8
WFRA-2000 (U.S. Well Services) Plexald 555 NM Plexslick 922 Tolcide PS50A	Anionic Friction Reducer Scale Inhibitor no data available Biocidal product Friction Reducer	Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, G12-16, Exoxylated Water Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)Cl) Cleic Acid Diethnolamide Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups Hydrotreated light petroleum distillate Ethoxylated alcohol Poly (oxy-1.2-ethanedlyl) alpha-tridecyl-omega-hydroxy-, branched	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06-9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8 397256-50-7 64742-47-8 Proprietary
NFRA-2000 (U.S. Well Services) Plexald 655 NM Plexslick 922 Toldide PS50A	Anionic Friction Reducer Scale Inhibitor no data available Biocidal product	Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, G12-16, Exoxylated Water Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)Cl) Cleic Acid Diethnolamide Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups Hydrotreated light petroleum distillate Ethoxylated alcohol	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-05 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 5556-30-8 397256-50-7 64742-47-8 Proprietary 69011-36-5





CALL BEFORE

800.245.4848

AT LEAST 48 HOURS, BUT NOT MORE THAN 10 WORKING DAYS (DOCUMENO WEDGENDS AND HOURANS), PRIOR TO TO STATING AN ACATE DESTREAMED ACTIVITIES, ALL CONTRACTOR OF HEALTH DESTREAMED ACTIVITIES, ALL CONTRACTOR OF HEALTH DESTREAMED, AT BIT OR 1—800—245—4848.

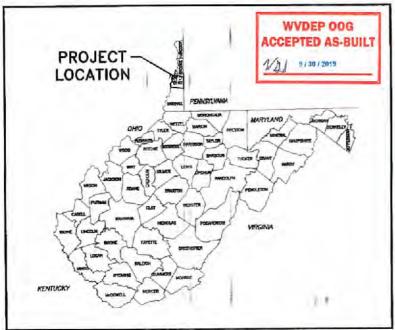
AS-BUILT SITE PLAN FOR

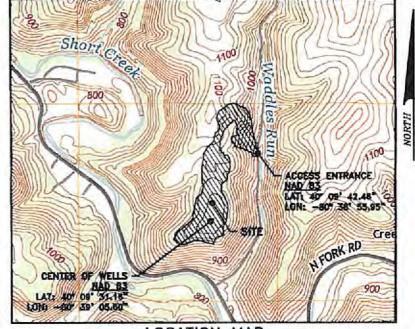
EDWARD DREMAK WELL PAD

RICHLAND DISTRICT, OHIO COUNTY, WV









COUNTY MAP

SITE DATA

TOTAL DISTURBED AREA: 25.50 ACRES ROAD DISTURBED AREA: 17.50 ACRES PAD DISTURBED ACRES: 8.00 ACRES ACCESS ROAD LENGTH: 2,570'
ACCESS ROAD AVERAGE WIDTH: VARIES
WELL PAD ELEVATION: 1087.95 Southwestern Energy*

OPERATOR

SWN PRODUCTION CO., LLE P.D. BUX 1300 JANE LEW, WV 26378 (832) 796-1610

LIST OF DRAWINGS

MRDS.3 DETAILS

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EP2.1							. EVACUATION ROUTE/PREVAILING	WNDS
EP2.2							. EVACUATION ROUTE/PREVAILING	
A53.1	0					ì.	. AS-BUILT OVERVIEW	
AS3.2							. AS-BUILT SITE PLAN	
AS3.3							. AS-BUILT SITE PLAN	
AS3.4							. AS-BUILT SITE PLAN	
CRA4.1	d						. ACCESS ROAD PROFILE	
CRA4.2							. PAD CROSS SECTIONS	
MRP5.1							. RECLAMATION OVERVIEW	
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MRP5.3							RECLAMATION PLAN	
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MRD5.2		ú	i.		2		DETAILS	

LOCATION MAP

WELL API NUMBERS

WELL NUMBER	API NUMBER	CELLAR DIAMETER	CELLAR DEPTH	CELLAR MATERIAL
405H	059-00228	8 FT	8 FT	CMP
5H	069-00219	8 FT	8 FT	CMP
205H	069-00227	8 FT	BFT	CMP
1H	069-00226	8 FT	8 FT	CMP
3H	069-00213	8 FT	8 FT	CMP
2H	069-00225	8 FT	8 FT	CMP

TS1.1

PAD WELL

COVER SHEET FOR DREMAK

EDWARD

RICHLAND DISTRICT

