

west virginia department of environmental protection

Office of Oil and Gas 601 57<sup>th</sup> Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452 Jim Justice, Governor Austin Caperton, Cabinet Secretary www.dep.wv.gov

# September 14, 2017 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

# SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit Modification Approval for EDWARD DREMAK OHI 3H 47-069-00213-00-00

Modified Casing Depths due to Water Depth Adjustment

# SWN PRODUCTION COMPANY, LLC

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin Chief

Operator's Well Number: EDWARD DREMAK OHI 3H Farm Name: DREMAK, EDWARD & JOANNE U.S. WELL NUMBER: 47-069-00213-00-00 Horizontal 6A / New Drill Date Issued: September 14, 2017

Promoting a healthy environment.

# 09/15/2017

Well Pad Name: Energ Damat OH Pad			
OPERATOR WELL NO. BARRING CONTRACTOR			
DIE OQ - 600-LA ON LAN	1		
UMETE			

(ST/70) 89-MM

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Ceann:
Deptit:
(a) If Yes, provide Mine Info: Mame:
17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No X
16) Approximate Depth to Possible Void (coal mine, larst, other): Possible Void X74'
15) Approximate Coal Seam Depths: 274'
14) Approximate Satiwater Depths: 750' estimate from nearby satinity profile analysis, longs on first well.
13) Method to Determine Fresh Water Depths: nearby spring at 855'SS used for livestock in the past.
12) Approximate Fresh Water Strata Depths: 259
11) Proposed Horizontal Leg Length: 7802
10) Proposed Total Measured Depth: 15230
9) Formation at Total Vertical Depth: Marcellus
8) Proposed Total Vertical Depth: 5809'
Other     X     Wolk Gas     Shallow     X       Horizontal     X     Deep       Horizontal     X     Deep       Alternation (s), Depth(s), Anticipated Thickness and Expected Pressure(s):       (1)     Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):       (3)     Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):       (3)     Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
3) Well Type (a) Gas X Oil Underground Storage
4) Elevation, current ground: 1087' Elevation, proposed post-construction: 1087
3) Farm Name/Surface Owner: Edward Damas & Jourse Dremas Public Road Access: Waddells Run Road
2) Operator's Well Number: Edward Dremak OHI 3H Well Pad Name: Edward Dremak OHI Pad
Operator ID County District Quadrangle
I) Mell Operator: SWN Production Co., LLC 494512924 069-Ohio 4-Richize 641-Tittonsville
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

Page 1 of 3

API NO. 47-659 - ODAL3 MON OPERATOR WELL NO. BOost Deset On 2014 Well Pad Name: Boost Direct Of Pad

WW-68 (04/15)

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#### 18)

# CASING AND TUBING PROGRAM

TYPE	<u>Size</u> (in)	<u>New</u> OI Used	<u>Grade</u>	<u>Weight per ft.</u> (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100'	100'	CTS
Fresh Water	13 3/8"	New	H-40	48#	339'	339'	339 sx/CTS
Coal	9 5/8*	New	J-55	36#	1747'	1747	672 sx/CTS
Intermediate	7*	New	J-55	36#	If Needed	If Needed	If Needed/As Needed
Production	5 1/2"	New	HCP-110	20#	15230'	15230'	he the fit in the second
Tubing	2 3/8"	New	HCP-110	4.7#	Approx. 5809'	Approx. 5809'	
Liners							

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TYPE	<u>Size (in)</u>	<u>Wellbore</u> Diameter (in)	<u>Wall</u> Thickness (in)	<u>Burst Pressure</u> (psi)	<u>Anticipated</u> <u>Max. Internal</u> <u>Pressure (psi)</u>	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (cr. ft./k)
Conductor	20*	30"	0.25	2120	81	Class A	1.19/50% Excess
Fresh Water	13 3/8"	17.5°	0.380	2740	633	Class A	1.19/50% Excess
Coal	9 5/8"	12 1/4"	0.395	3950	1768	Class A	1.1950% Excess
Intermediate	7"	8 3/4°	0.317	4360	3250	Class A	1.20/50% Excess
Production	5 1/2"	8 3/4°	0.361	12360	9500	Class A	1.20/50% Excess
Tubing	2 3/8"	4.778°	0.190	Approx 8193'	Approx 8193		
Liners	1			]			

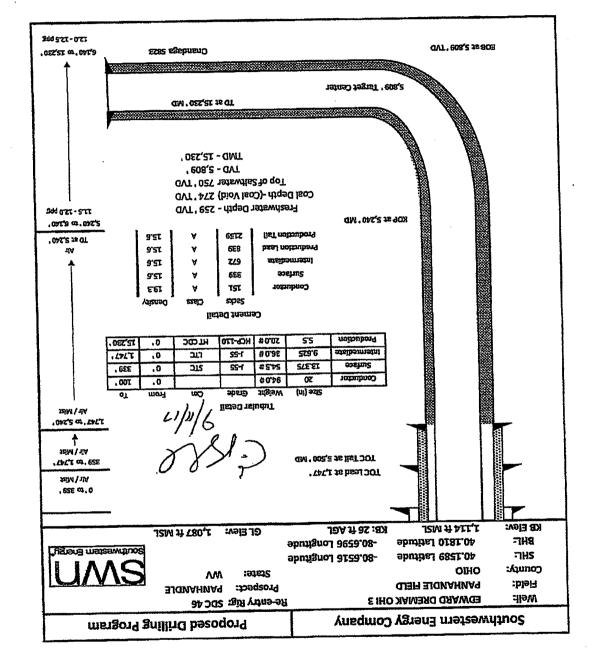
### PACKERS

Kind:	10K Arrowset AS-1X		
Sizes:	5 1/2"		
Depths Set:		· · · · · · · · · · · · · · · · · · ·	

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WW-6AW (1-12)

Dremak 1H

Dremak

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS VOLUNTARY STATEMENT OF NO OBJECTION

#### Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

#### **Comment and Waiver Provisions**

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.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*. That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

### VOLUNTARY STATEMENT OF NO OBJECTION

I, <u>Casey V. Saunders</u>, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through \_\_\_\_\_\_, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	West Virginia	MULCONI NUED 07	Easting:	1,678,070.495
County:	Ohio	WVSPN NAD 27	Northing:	606,214,383
District:	Richland	Public Road Access:	÷	
Quadrangle:	TILTONSVILLE	Generally used farm	name:	
Watershed:				

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials, provided that Southwestern Energy Production Company, LLC drills the well on WV North NAD27 coordinates of North 606,214.383, East 1,678,070.495. This statement does not serve as notice that Consol Pennsylvania Coal Company has waived its rights to mine all the coal or accept any responsibility for any damage to the well or surface facilities associated with the well by mining activity. This Voluntary Statement of No Objection does not waive CPCC's Common Law Property Rights in the State of West Virginia.

*Please check the box that applies SURFACE OWNER	FOR EXEC	UTION BY A NATURAL PERSON
SURFACE OWNER (Road and/or Other Disturbance)	Signature: Print Name: Date:	
SURFACE OWNER (Impoundments/Pits)		UTION BY A CORPORATION, ETC.
⊠COAL OWNER OR LESSEE	1025	Consol Pennsylvania Coal Company
COAL OPERATOR	Its:	Manager Coal-Gas Coordination
WATER PURVEYOR	Signature: Date:	Cose V. Sormun 9/12/2017
OPERATOR OF ANY NATURAL GAS STORAGE FIELD	Date.	() 9/12/2017

#### 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-6AW (1-12)

OPERATOR WELL NO. Well Pad Name:

API NO.

Dremak 3H

Dremak

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	Signature:
SURFACE OWNER (Road and/or Other Disturbance)	Print Name: Date:
SURFACE OWNER (Impoundments/Pits)	
	FOR EXECUTION BY A CORPORATION, ETC.
COAL OWNER OR LESSEE	Company: Consol Pennsylvania Coal Company By: Casey Saunders
⊠COAL OPERATOR	Its: Manager Coal-Gas Coordination
WATER PURVEYOR	Signature: Wey V- Samuelly Date: 9/12/2017
OPERATOR OF ANY NATURAL GAS STORAGE FIELD	

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