

11/09/2018



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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Wednesday, November 7, 2018
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 5H
47-069-00219-00-00

Lateral Extension

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

A handwritten signature in blue ink, appearing to read "James A. Martin", is written over a circular stamp. The stamp is partially obscured by the signature and contains some illegible text and a date.

Operator's Well Number: EDWARD DREMAK OHI 5H
Farm Name: DREMAK, EDWARD & JOANNE
U.S. WELL NUMBER: 47-069-00219-00-00
Horizontal 6A New Drill
Date Modification Issued: November 07, 2018

Promoting a healthy environment.

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

1) Well Operator: SWN Production Co., LLC 494512924 069-Ohio 4-Richlar 641-Tiltonsville
Operator ID County District Quadrangle

2) Operator's Well Number: Edward Dremak OHI 5H Well Pad Name: Edward Dremak OHI Pad

3) Farm Name/Surface Owner: Andrew John Evick Public Road Access: North Fork Road

4) Elevation, current ground: 1088' Elevation, proposed post-construction: 1088'

5) Well Type (a) Gas Oil _____ Underground Storage _____
Other _____

(b) If Gas Shallow Deep _____
Horizontal

6) Existing Pad: Yes or No No

C. KLO 9.7.18

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Target Formation- Marcellus Up-Dip Well to the North, Target Top TVD-5772', Target Base TVD- 5812', Anticipated Thickness- 40', Associated Pressure- 4650

8) Proposed Total Vertical Depth: 5800'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 20444'

11) Proposed Horizontal Leg Length: 14230'

12) Approximate Fresh Water Strata Depths: 259'

13) Method to Determine Fresh Water Depths: Nearby Spring

14) Approximate Saltwater Depths: 377' Salinity Profile

15) Approximate Coal Seam Depths: 270'

16) Approximate Depth to Possible Void (coal mine, karst, other): Possible Void 270'

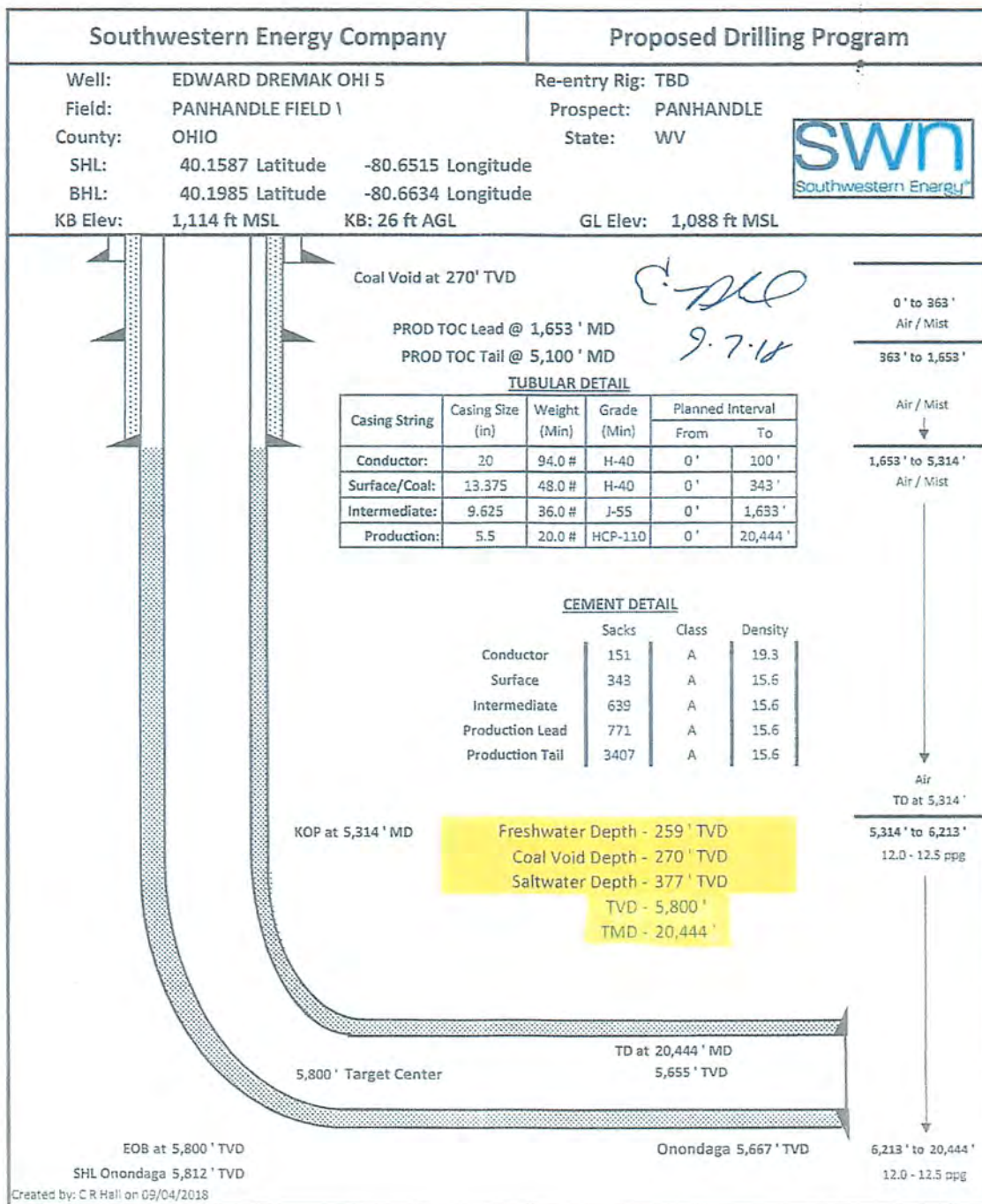
17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No

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

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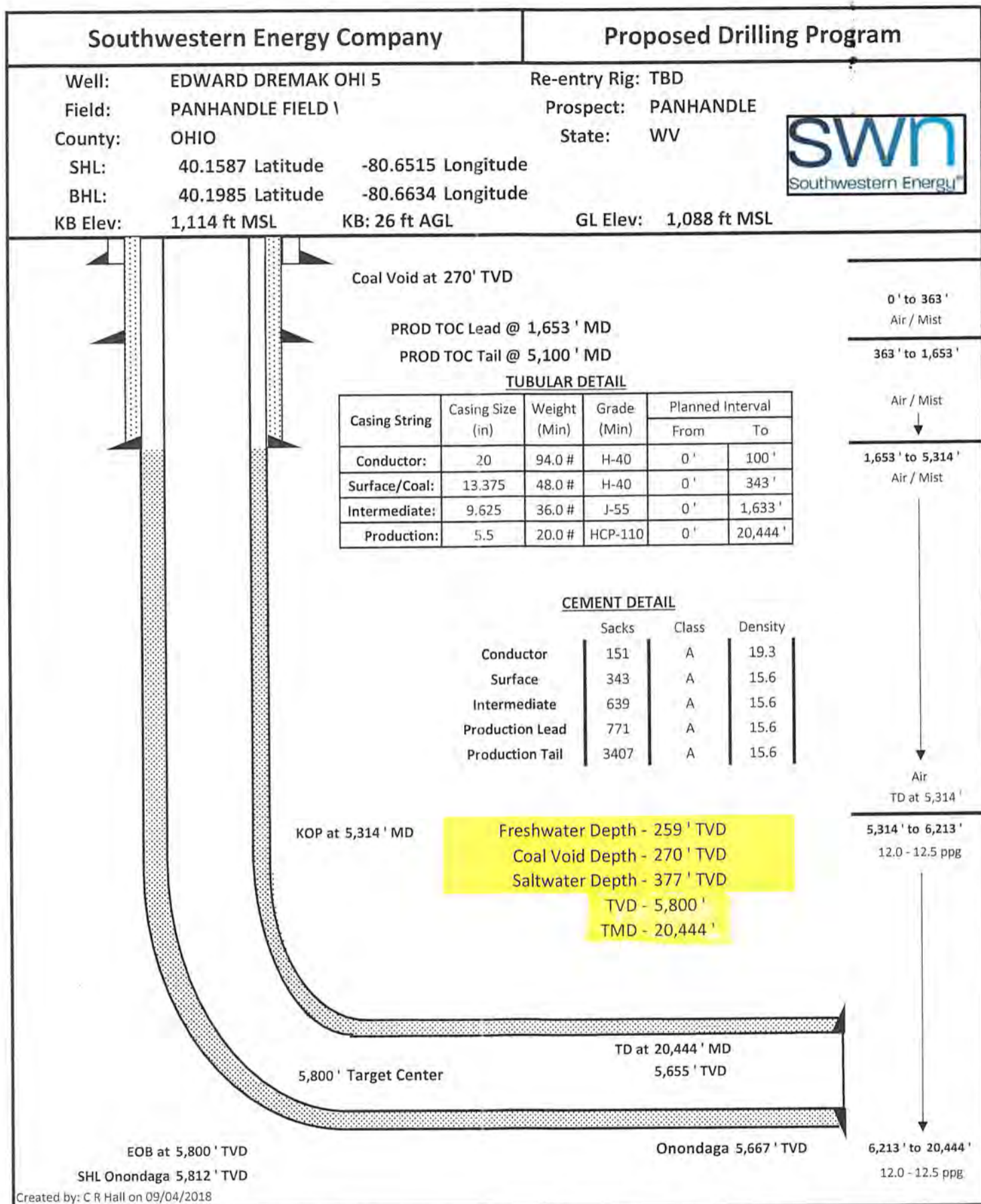


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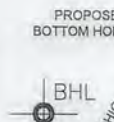
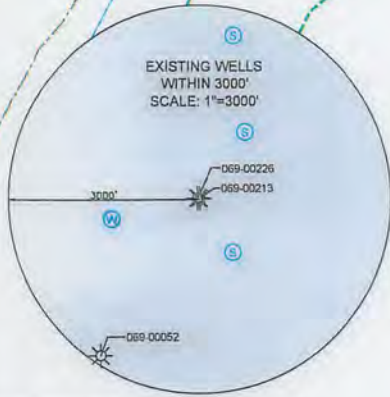
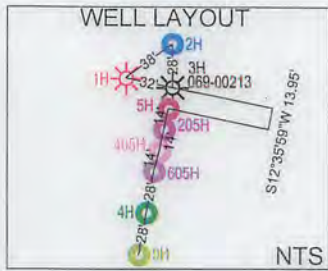
(2,000' SCALE) SURFACE HOLE LATITUDE: 40°10'00" / 7347' (2,000' SCALE) BOTTOM HOLE LATITUDE: 40°12'30" / 10673'

JHA Companies
SURVEYORS ENGINEERS ENVIRONMENTAL GIS MAPPING
 www.jhacompanies.com
 68011 Vineyard Road
 St. Clairsville, Ohio 43950
 740-695-6100

NOTES ON SURVEY

1. COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
2. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
3. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. NO DWELLINGS OR BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
5. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
6. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF THE LIMITS OF DISTURBANCE.
7. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.

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SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4445432.27
EASTING: 529680.60
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4445677.80
EASTING: 529854.92
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4449842.68
EASTING: 528649.75

LINE	BEARING	DISTANCE
L1	S87°42'46\"W	737.45'
L2	N75°40'37\"W	762.96'



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

P.S. 2041 *ADD 9/7/18*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	MINIMUM DEGREE OF ACCURACY: 1/200 PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)	EDWARD DREMAK OHI OPERATOR'S WELL #: 5H API WELL #: 47 STATE 069 COUNTY 00219 PERMIT
	WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input checked="" type="checkbox"/> DEEP <input checked="" type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> STORAGE <input type="checkbox"/> SHALLOW <input type="checkbox"/> WATERSHED: UPPER OHIO SOUTH DISTRICT: RICHLAND COUNTY: OHIO SURFACE OWNER: ANDREW JOHN EVICK OIL & GAS ROYALTY OWNER: EDWARD W. & JOANNE V. DREMAK DRILL <input checked="" type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input checked="" type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/> CONVERT <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input type="checkbox"/> (SPECIFY) TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 5,800' TVD 20,444.2' TMD	WELL OPERATOR: SWN PRODUCTION COMPANY, LLC ADDRESS: P.O. BOX 1300 CITY: JANE LEW STATE: WV ZIP CODE: 26378

LEGEND: (S) PROPOSED SURFACE HOLE / BOTTOM HOLE (W) EXISTING / PRODUCING WELLHEAD LPL * LANDING POINT LOCATION (W) EXISTING WATER WELL (S) EXISTING SPRING --- SURVEYED BOUNDARY ===== LEASE BOUNDARY --- PROPOSED PATH	REVISIONS: Δ REVISED DDR 08-27-2018 Δ REVISED DDR 09-06-2018	DATE: 09-07-2018 DRAWN BY: D. REED SCALE: 1" = 3000' DRAWING NO: 2018-284 WELL LOCATION PLAT
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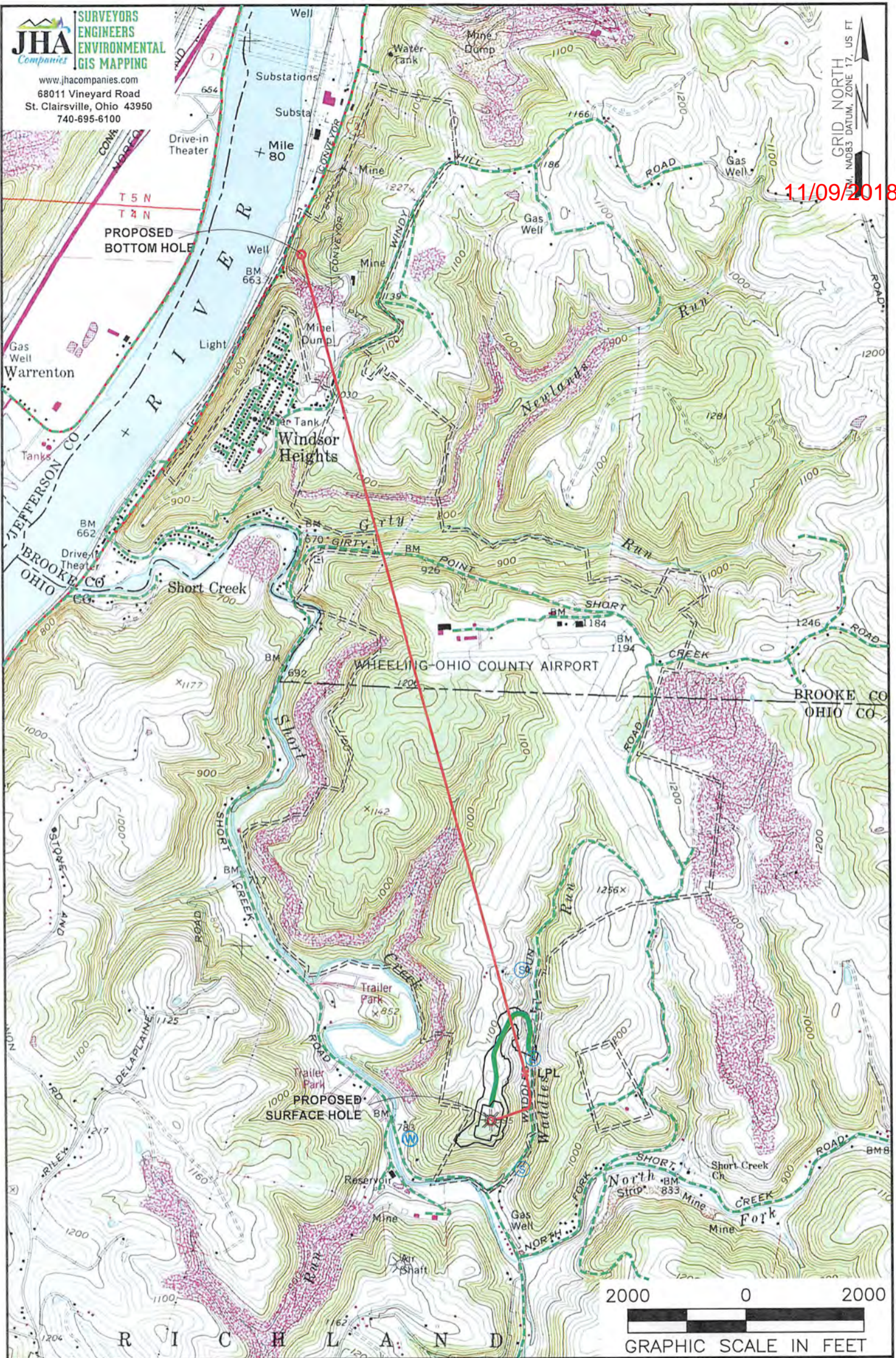
11/09/2018

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
△1	ANDREW JOHN EVICK (S) / JOANNE V. DREMAK (R)	04-R5-54
SURFACE OWNER		
△2	ANDREW JOHN EVICK	04-R5-49
3	THE BOARD OF COMMISSIONERS OF THE COUNTY OF OHIO	04-R5-10
4	SHANE E. WOLOSHAN, TRUSTEE	04-R5-9
5	HENRY W. ZEIDLER, JUDITH K. ZEIDLER & MARGARET L. BURGGRAF	03-B46-0015.0000
△6	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS	GIRTYS POINT ROAD
7	BARRY L. & PATRICIA A. GREATHOUSE	03-B46-0018.0000
8	LAWRENCE R. MOORE & ROSEMARY KINDER	03-B41-0021.0004
9	NEIL A. & JANICE C. ABRAHAMSON	03-B41-0024.0000
△10	NEIL A. & JANICE C. ABRAHAMSON	03-B41-0021.0005
11	NEIL A. & JANICE C. ABRAHAMSON	03-B41-0025.0000
12	LAWRENCE R. & ROSEMARY MOORE	03-B41-0021.0001
13	THE VILLAGE OF WINDSOR HEIGHTS	03-B41-0029.0000
14	WINDSOR COAL COMPANY	03-B41-0021.0000
15	WINDSOR COAL COMPANY	03-B41-0005.0000

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	ALLIANCE RESOURCE GP, LLC	04-R6-6
B	ALLIANCE RESOURCE GP, LLC	04-R5-52
C	ALLIANCE RESOURCE GP, LLC	04-R5-53
D	WINDSOR COAL COMPANY (C/D CNX LAND-PROPERTY TAX)	04-R5-50
E	JOHN W. METZ	04-R5-46
F	BURNT MILL ACRES, LLC (C/D MARK FOSTER)	04-R5-13
G	JULIE A. KOEHLER	04-R5-45.4
H	JULIE A. KOEHLER	04-R5-45.13
I	CAROL G. TAYLOR, MARK J. TAYLOR & SUE A. HOWARD	04-R5-12
J	CAROL G. TAYLOR, MARK J. TAYLOR & SUE A. HOWARD	04-R5-14
K	THERESE FLICK	04-R5-15
L	DALE A. & JENNIFER A. VILLANI	04-R5-16
M	DALE A. & JENNIFER A. VILLANI	04-R5-17.1
N	ROBERT N. & C.L. CONNER	04-R5-17
O	PATRICIA ROUSH	04-R5-18
P	ERVAN D. & NANCY G. TRUBIANO	04-R5-19
Q	BRYAN W. & MELINDA K. SOWIZRAL	04-R5-20.1
R	DENNIS J. & SHEINA L. HOSKINS	04-R5-20.4
S	HAROLD & LINDA COAST	04-R5-2.9
T	ROBERT KUBOVICZ	04-R5-8
U	RODNEY K. & N.C. MCCONNELL	04-R2-20
△V	RODNEY K. & N.C. MCCONNELL	03-B46-0014.0000
W	RODNEY K. & N.C. MCCONNELL	04-R2-18.2
X	SYLVIA A. HAWRANICK	04-R2-18.1
Y	HENRY W. ZEIDLER, JUDITH K. ZEIDLER & MARGARET L. BURGGRAF	03-B46-0013.0000
Z	KENNETH D. & BARBARA J. COVER	03-B46-0012.0000
AA	JOAN GARRETT	03-B46-0009.0000
AB	JOAN GARRETT	03-B46-0017.0000
△AC	SIDNEY W. MOZINGO, JR. & VICTORIA L. MOZINGO	03-B46-0005.0000
AD	ALEC MUSHET & DARLA ANN MUSHET	03-B46-0004.0000
AE	EVERT RUNYAN	03-B41-0018.0000
AF	WINDSOR COAL COMPANY	03-B41-0020.0000
AG	VILLAGE OF WINDSOR HEIGHTS	08-W41N-0139.0000
AH	WILLIAM I. KNIGHT, II & MEREDITH M. SERRICH	08-W41N-0129.0000
△AJ	JAYCOB HAYDEN DOTY & HAYLEY A. DOTY	08-W41N-0130.0000
AJ	WILLIAM C. MCGILL & PEGGY L. MCGILL	08-W41N-0131.0000
AK	WILLIAM C. MCGILL & PEGGY L. MCGILL	03-B41-0028.0000
AL	DOUGLAS CUNNINGHAM	03-B41-0027.0000
AM	MONICA P. GRAY	03-B41-0026.0000
AN	WINDSOR HEIGHTS DEVELOPMENT COMPANY	08-W41J-0002.0000
AO	WINDSOR HEIGHTS DEVELOPMENT CORPORATION	08-W41J-0001.0000
AP	LAMBROS TSUHLARES	03-B40S-0016.0000
AQ	RIGHT OF WAY (STATE ROUTE #2: RIVER ROAD)	XXXXX
AR	WINDSOR COAL COMPANY	01-BB41-0005.0000
AS	MT. OLIVE BAPTIST CHURCH	01-B40S-0001.0000
AT	WINDSOR COAL COMPANY	01-BB41-0003.0000
AU	WEST PENN POWER COMPANY	01-BB41-0017.0000
AV	WEST PENN POWER COMPANY	01-BB41-0016.0000
AW	WEST PENN POWER COMPANY	01-BB41-0007.0000
AX	WINDSOR COAL COMPANY	03-B41-0007.0000
AY	WINDSOR COAL COMPANY	03-B41-0039.0000
AZ	SYLVESTER & MARY KELLER	03-B41-0038.0000
BA	DONNA MARIE PEREZ	03-B41-0037.0000
BB	ROSEMARY KINDER MOORE	03-B41-0035.0000
BC	MICHAEL A. & LINDA S. WOLEN	03-B41-0036.0000
BD	LAWRENCE & ROSEMARY MOORE	03-B41-0034.0000
BE	LAWRENCE R. & ROSEMARY K. MOORE	03-B41-0033.0000
BF	ROSEMARY KINDER MOORE	03-B41-0030.0000
BG	STANLEY RAE KRUPINSKI & MEREDITH KINDER MOORE KRUPINSKI	03-B41-0021.0003
BH	HAMMOND PUBLIC SERVICE DISTRICT	03-B41-0021.0002
BI	CHARLES D. BELL TESTAMENTARY TRUST, CHARLES W. BELL, BETTY BELL WILLIAMS, PEGGY BELL HRACH, MEGAN CALDWELL, SCOTT CALDWELL & CHAD CALDWELL	03-B41-0031.0000
BJ	BARRY L. & PATRICIA A. GREATHOUSE	03-B41-0032.0000
BK	BARRY L. & PATRICIA A. GREATHOUSE	03-B41-0083.0000
BL	BARRY L. & PATRICIA A. GREATHOUSE	03-B46-0019.0000
BM	STACY ANN GREATHOUSE & PATRICIA ANN GREATHOUSE	03-B46-0041.0000
BN	BARRY L. & PATRICIA A. GREATHOUSE	03-B41-0082.0000
BO	DANNY GENE & VIRGINIA MARGARET BRITT	03-B46-0027.0000
BP	TRACY GILBERT	03-B46-0022.0001
BO	BRUCE D. BONAR	03-B46-0020.0000
BR	MARC SEAMON	04-R6-2
BS	THE BOARD OF COMMISSIONERS OF THE COUNTY OF OHIO	04-R5-55
BT	RICHARD L. & DEBORAH K. BLACK	04-R5-58.1
BU	RAY W. ARCHER	04-R5-58
BV	WINDSOR COAL COMPANY	04-R6-8.1
BW	EDWARD W. & JOANNE V. DREMAK	04-R5-54.1
BX	ALLIED WASTE, INC	04-R5-56
BY	TUNNEL RIDGE, LLC	04-R6-8.18
BZ	SUSAN L. CAIN	04-R6-8.3
CA	HAMMOND PUBLIC SERVICE DISTRICT	03-B46-0016.0000

REVISIONS: △ REVISED DDR 08-27-2018	COMPANY: <div style="display: flex; justify-content: space-around; align-items: center;">   </div>
OPERATOR'S EDWARD DREMAK OHI	DATE: 09-07-2018
WELL #: 5H	DRAWN BY: D. REED
DISTRICT: RICHLAND	SCALE: N/A
COUNTY: OHIO	DRAWING NO: 2018-284
STATE: WV	WELL LOCATION PLAT

11/09/2018



NOTES ON SURVEY

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

LEGEND:

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

WELL OPERATOR:
 SWN PRODUCTION COMPANY, LLC

ADDRESS:
 P.O. BOX 1300 JANE LEW, WV 26378

SURFACE OWNER:
 JOHN ANDREW EVICK

WELL (FARM) NAME:
 EDWARD DREMAK OHI

COUNTY - CODE
 OHIO - 069

USGS 7 1/2 QUADRANGLE MAP NAME
 TILTONVILLE, OH

WELL # SERIAL #
 5H XXXX

DISTRICT;
 RICHLAND

WW-6A1
(5/13)

Operator's Well No. Edward Dremak OHI 5H

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

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
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SEE EXHIBIT "A"

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

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

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

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

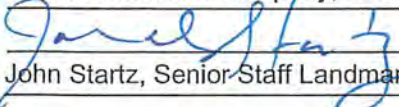
Well Operator: SWN Production Company, LLC
 By: 
 Its: John Startz, Senior Staff Landman

EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, L.L.C., Operator
Edward Dremak OHI 5H
Ohio County and Brooke Counties, West Virginia

#	TMP	LEASE #	LESSOR	LESSEE	ROYALTY	BK/PG
1)	4-R5-54	729403-000	Edward W Dremak and Joanne V Dremak	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	16.75%	810/722 884/121
2)	4-R5-49	729328-000	Edward W Dremak and Joanne V Dremak	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	16.75%	810/673 884/109
3)	4-R5-10	745907-009	Anna Mae Moore and Gerald Thomas Moore, her husband	SWN Production Company, LLC	14.00%	911/632
		745907-008	Arlene F. Barrett and Joseph Charles Barrett, her husband	SWN Production Company, LLC	14.00%	911/459
		745907-011	Audrey Mae Predmore, a widow	SWN Production Company, LLC	14.00%	911/564
		745907-007	Beth L. Christopher and Jefferey Christopher, her husband	SWN Production Company, LLC	14.00%	911/612
		745907-035	Betty Jane Claypoole, a widow, by Anna Moore, her attorney in fact	SWN Production Company, LLC	14.00%	911/607
		745907-021	Carole L. Freeland, a widow, Shari Lynn Freeland, a single woman & Teresa Renee Freeland Kuhens, a married woman dealing in her sole and separate property	SWN Production Company, LLC	16.00%	911/552
		745907-036	Cheryl L Hunter	SWN Production Company, LLC	18.00%	912/13
		745907-015	Dale E. Wisard and Janet Wisard, his wife	SWN Production Company, LLC	16.00%	911/481
		745907-023	Dorothy Humphrey, a widow	SWN Production Company, LLC	14.00%	911/670
		745907-033	Eleanor Freeland Tesarek and Thomas Tesarek, her husband	SWN Production Company, LLC	18.00%	911/516
745907-024	Elizabeth Ann Beck and Charles Allen Beck, husband and wife	SWN Production Company, LLC	14.00%	911/782		

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EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, L.L.C., Operator
Edward Dremak OHI 5H
Ohio County and Brooke Counties, West Virginia

745907-045	Elizabeth Ellen Fluharty, by Douglas Fluharty, her Attorney in Fact	SWN Production Company, LLC	16.00%	912/018
745907-002	Harold L. Wisard and Eldine Wisard, his wife	SWN Production Company, LLC	16.00%	911/470
745907-034	James Miller, a widower	SWN Production Company, LLC	18.00%	911/510
745907-029	Janice L. Steinbrenner, a married woman	SWN Production Company, LLC	18.00%	911/580
745907-014	John Arley Freeland, a married man dealing in his sole and separate property	SWN Production Company, LLC	14.00%	911/476
745907-032	John Paul Freeland, a single man	SWN Production Company, LLC	18.00%	911/498
745907-028	Joseph Robert Freeland and Patricia Freeland, his wife	SWN Production Company, LLC	18.00%	911/522
745907-027	Julia A. Freeland Price, a widow	SWN Production Company, LLC	18.00%	911/546
745907-025	Linda Freeland Wheeler and James Wheeler, Jr., her husband	SWN Production Company, LLC	18.00%	911/504
745907-026	Robert E. Peters, Sr., a widower	SWN Production Company, LLC	16.00%	911/558
745907-005	Robert T. Davidson, a widower	SWN Production Company, LLC	14.00%	911/540
745907-039	Robert Wisard, a single man	SWN Production Company, LLC	14.00%	911/487
745907/038	Steven S. Wisard and Julie Wisard, husband and wife	SWN Production Company, LLC	14.00%	911/787
745907-030	Thomas A. Weldon, a single man	SWN Production Company, LLC	18.00%	911/586
745907-037	Tracy Casey and Drew Casey, her husband	SWN Production Company, LLC	14.00%	911/622
745907-022	Wilda P. Freeland, a widow, by Eric Freeland, her Attorney in Fact	SWN Production Company, LLC	14.00%	911/492
745907/031	William Charles Freeland and Laura Anne Freeland, husband and wife and Jessica Erin Freeland, a single woman	SWN Production Company, LLC	18.00%	911/569
727321-001	The Board of Commissioners of Ohio County a/k/a The County Commission of Ohio County	Chesapeake Appalachia, L.L.C.	18.00%	802/742 883/415

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EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, L.L.C., Operator
Edward Dremak OHI 5H
Ohio County and Brooke Counties, West Virginia

4)	4-R5-9	1-325515-000	S.E.W. Trust, Shane E Woloshan, Trustee	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	812/384 898/212
5)	3-B46-15	729490-003	Henry W Zeidler	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	13/339 30/480
		729490-002	Judith K Zeidler	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	14/72 30/480
		729490-001	Margaret Zeidler Burggraf	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	14/510 30/480
6)	Girtys Point Road	17-99999	West Virginia Department of Transportation, Division of Highways	SWN Production Company, LLC	20.00%	38/217
7)	3-B46-18	18-00301	Barry L. Greathouse and Patricia A. Greathouse	SWN Production Company, LLC	15.50%	35/373
8)	3-B41-21-4		HG Energy II Appalachia, LLC	SWN Production Company, LLC	18.00%	42/260
9)	3-B41-24		Neil A. Abrahamson and Janice C. Abrahamson, husband and wife	SWN Production Company, LLC	18.00%	40/43
10)	3-B41-21-5	747789-000	HG Energy II Appalachia, LLC	SWN Production Company, LLC	18.00%	42/260 47/342
11)	3-B41-25		Neil A. Abrahamson and Janice C. Abrahamson, husband and wife	SWN Production Company, LLC	18.00%	40/38
12)	3-B41-21-1		HG Energy II Appalachia, LLC	SWN Production Company, LLC	18.00%	42/260
13)	3-B41-29		CNX Gas Company, LLC	SWN Production Company, LLC	18.00%	48/112
14)	3-B41-21		CNX Gas Company, LLC	SWN Production Company, LLC	18.00%	48/118
15)	3-B41-5		CNX Gas Company, LLC	SWN Production Company, LLC	18.00%	48/118

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WV Department of
Environmental Protection

August 29, 2018

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

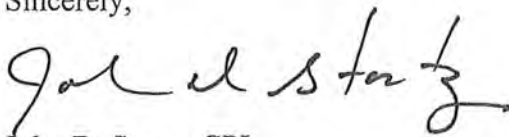
RE: SWN's proposed New Well: Edward Dremak OHI 5H
in Ohio County, West Virginia, Drilling under Windy Hill
Road, Girtys Point Road & Waddells Run Road.

Dear Ms. Adkins:

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

Thank you.

Sincerely,



John D. Startz, CPL
Technical Expert Landman

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

September 7, 2018

Ms. Laura Adkins
Office of Oil & Gas
601 57th Street
Charleston, WV 25304

RE: Modifications: Edward Dremak UP OHI 2H - 47-069-00225
Edward Dremak OHI 205H - 47-069-00227
Edward Dremak OHI 5H - 47-069-00219

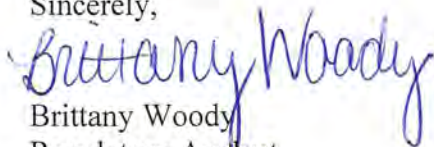
Dear Ms. Adkins

Enclosed please find the updated 6B, WBD, Mylar, 6A1, and road letter for the above captioned wells. We have extended the laterals and updated the BOFW & TOSW. These wells are situated on the Dremak's property, in Ohio County, West Virginia.

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

Thank you.

Sincerely,



Brittany Woody
Regulatory Analyst
Southwestern Energy Production Company, LLC

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SEP 10 2018

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