



west virginia department of environmental protection

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

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

February 03, 2016

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-10303145, issued to SWN PRODUCTION COMPANY, LLC, 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 all 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 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.


James Martin
Chief

Operator's Well No: BLATT UD-B WTZ 7H
Farm Name: BLATT, TAMI, KEVIN, MICHAEL
API Well Number: 47-10303145
Permit Type: Horizontal 6A Well
Date Issued: 02/03/2016

Promoting a healthy environment.

02/05/2016

PERMIT CONDITIONS 4710303145

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. 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. 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.
8. 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.
9. 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.

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 103-Wetzel 7-Proctor 681-Wileyville
Operator ID County District Quadrangle
- 2) Operator's Well Number: Blatt UD-B Wtz 7H Well Pad Name: Blatt
- 3) Farm Name/Surface Owner: Tony Blatt, Kevin L. Blatt, Michael J. Blatt & Janice Blatt Public Road Access: St. Joseph Baker Hill
- 4) Elevation, current ground: 1282' Elevation, proposed post-construction: 1282'
- 5) Well Type (a) Gas Oil _____ Underground Storage _____
Other _____
(b) If Gas Shallow Deep _____
Horizontal
- 6) Existing Pad: Yes or No Yes Print
1-20-15
- 7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Associated Pressure(s):
Target Formation- Burket Shale, Target Top TVD- 6921', Target Base TVD- 6696', Anticipated Thickness-26', Associated Pressure- 4500
- 8) Proposed Total Vertical Depth: 6921' 6921' BW 6421' BW
- 9) Formation at Total Vertical Depth: Burket Shale
- 10) Proposed Total Measured Depth: 13332'
- 11) Proposed Horizontal Leg Length: 5700'
- 12) Approximate Fresh Water Strata Depths: 256'
- 13) Method to Determine Fresh Water Depths: based off nearby water wells
- 14) Approximate Saltwater Depths: 1650'
- 15) Approximate Coal Seam Depths: 1119'
- 16) Approximate Depth to Possible Void (coal mine, karst, other): None that we are aware of.
- 17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No TB 2/11/16 For BW
- (a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

18) CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	100'	100'	CTS
Fresh Water	13 3/8"	New	H-40	48#	356'	356'	337 sx/CTS
Coal	9 5/8"	New	J-55	36#	2583'	2583'	1007 sx/CTS
Intermediate	7"	New	P-110	20#	If Needed	If Needed	If Needed/As Needed
Production	5 1/2"	New	HCP-110	20#	13,332'	13,332'	Lead 861sx 1st 1325x100' Inside brgs
Tubing	2 3/8"	New	P-110	4.7#	Approx. 6921'	Approx. 6921'	
Liners							

DmH
11-20-15

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Max. Associated Surface Pressure (psi)	Cement Type	Cement Yield (cu. 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	1.19/50% Excess
Intermediate	7"	8 3/4"	0.317	4360	3250	Class A	1.20/15% Excess
Production	5 1/2"	8 3/4"	0.361	12360	9500	Class A	1.20/15% Excess
Tubing	2 3/8"	4.778"	0.190				
Liners							

PACKERS

Kind:	10K Arrowset AS1-X	47	10300145	
Sizes:	5 1/2"			
Depths Set:				

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19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill and stimulate any potential zones between and including the Benson to Marcellus. **If we should encounter a void place basket above and below void area- balance cement to bottom of void and grout from basket to surface. Run casing not less than 20' below void nor more than 50' below void. (*If freshwater is encountered deeper than anticipated it must be protected, set casing 50' below and cts.)

PMH
11-20-15

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. The well is produced through surface facilities consisting of high pressure production unites, vertical separation units, water and oil storage tanks. Max press and anticipated max rate- 9000 lbs @ 80 barrels a minute.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 12.9

22) Area to be disturbed for well pad only, less access road (acres): 6.4

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 ***

47 103 03 145

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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Environmental Protection
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*Note: Attach additional sheets as needed.

Schlumberger Cement Additives

	Product Name	Product Use	Chemical Name	CAS Number
Surface	S001	accelerator	calcium chloride	10043-52-4
Intermediate	S001	accelerator	calcium chloride	10043-52-4
Kick Off Plug	D080	dispersant	sodium polynaphthalene sulfonate	9008-63-3
	D801	retarder	aromatic polymer derivative	proprietary
	D047	antifoam	polypropylene glycol	25322-69-4
Production-Lead	D167	fluid loss	aliphatic amide polymer	proprietary
	D154	extender	non-crystalline silica	7631-86-9
	D400	gas migration	boric acid	10043-35-3
	D046	antifoam	polypropylene glycol	25322-69-4
			fullers earth (attapulgate)	8031-18-3
	D201	retarder	chrySTALLine silica	14808-60-7
			metal oxide	proprietary
	D202	dispersant	sulphonated synthetic polymer	proprietary
formaldehyde (impurity)			proprietary	
Production-Tail	D046	antifoam	polypropylene glycol	25322-69-4
			fullers earth (attapulgate)	8031-18-3
	D167	fluid loss	aliphatic amide polymer	proprietary
	D065	dispersant	sodium polynaphthalene sulfonate	9008-63-3
			sodium sulfate	7757-82-6
	D201	retarder	chrySTALLine silica	14808-60-7
			metal oxide	proprietary
	D153	anti-settling	chrySTALLine silica	14808-60-7

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02/05/2016

Southwestern Energy Company

Proposed Drilling Program

Well: BLATT UD-B Wtz 7
 Field: VICTORY FIELD
 County: WETZEL
 SHL: 39.7160 Latitude -80.6881 Longitude
 BHL: 39.7021 Latitude -80.6726 Longitude
 KB Elev: 1,306 ft MSL

Re-entry Rig: TBD
 Prospect: VICTORY
 State: WV



KB: 26 ft AGL

GL Elev: 1,280 ft MSL

TOC Lead at 2,583' MD
 TOC Tail at 6,800' MD

Tubular Detail

	Size (in)	Weight	Grade	Cxn	From	To
Conductor	20	94.0 #	J-55		0'	100'
Surface	13.375	48.0 #	H-40	STC	0'	356'
Intermediate	9.625	36.0 #	J-55	LTC	0'	2,583'
Production	5.5	20.0 #	HCP-110	HT CDC	0'	13,332'

Cement Detail

	Sacks	Class	Density
Conductor	151	A	19.3
Surface	337	A	15.6
Intermediate	1007	A	15.6
Production Lead	861	A	15.6
Production Tail	1325	A	15.6

KOP at 6,400' MD

Water Depth - 256' TVD
 Coal Depth - 1,119' TVD
 Gas Storage area
 TVD - 6,921'
 TMD - 13,332'

*DWH
 11-20-15*

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EOB at 6,921' TVD

Tully 6928'
 Mahantango 6951'

0' to 356'
 Air / Mist

356' to 1200'
 Air / Mist

1200' to 2583'
 Brine

2,583' to 6,400'
 Air / Mist

Air
 TD at 6,400'

6,400' to 7,298'
 11.5 - 12.0 ppg

7,298' to 13,332'
 12.0 - 12.5 ppg

4710305145

02/05/2016

WW-9
(9/13)

API Number 47 - 103 - _____
Operator's Well No. Blatt UD-B WTZ 7H

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 49447757

Watershed (HUC 10) Blake Fork of Upper Ohio River 2 Quadrangle 681-Wileyville

Elevation 1282' County 103-Wetzel District 7-Proctor

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: closed loop system in place at this time- cuttings will be taken to a permitted landfill.

Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number 2D0072539/ 2D0413175/ 2D0610306/ 2D0610317)
- Reuse (at API Number at next anticipated well, API# will be included with the WR-34/DDMR &/or permit addendum.)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain flow back fluids will be put in steel tanks and reused or taken to a permitted disposal facility.)

4710303145

Dist
11-20-15

Will closed loop system be used? If so, describe: Yes

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air and salt saturate mud

-If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Base

Additives to be used in drilling medium? see attached sheets

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) _____

-Landfill or offsite name/permit number? meadow SWF- 1032, SS Grading SWF-4902, Northwest SWF- 1025, Short Creek 1034/WV0109517/CID28726, Carbon Limestone 28726/CID28726
Arden Landfill 10072, American U2-12954, Country Wide 38390/CID38390, Pine Grove 13688

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature [Signature]

Company Official (Typed Name) Dee Southall

Company Official Title Regulatory Supervisor

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Subscribed and sworn before me this 13th day of November

Brittany R Woody

My commission expires 11/27/20



SWN Production Co., LLC

Proposed Revegetation Treatment: Acres Disturbed 12.9 Prevegetation pH _____

Lime as determined by pH test min. 2 _____ Tons/acre or to correct to pH 6.4

Fertilizer type 10-20-20

Fertilizer amount 600 lbs/acre

Mulch Hay/Straw 2.5 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
White Grove	15	White Grove	15
Red Top	15	Red Top	15
Orchard Grass	20	Orchard Grass	20

Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: _____

4710303145

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Title: Oil and Gas Inspector

Date: 11-20-15 DEC 01 2015

Field Reviewed? Yes No

WV Department of Environmental Protection

**Marcellus Well Drilling Procedures
And Site Safety Plan**

SWN Production Co., LLC

47 - 103 -
Well name: Blatt UD-B WTZ 7H
Wileyville, Quad
Proctor, District
Wetzel County, West Virginia

4710303145

Submitted by:



Danielle Southall

11-13-2015

Date:

Title Regulatory Supervisor

SWN Production Co., LLC

Approved by:



Date:

11-20-15

Title:

Oil + Gas Inspector

Approved by:

Date:

Title:

SWN Production Co., LLC – Confidential

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Environmental Protection

02/05/2016

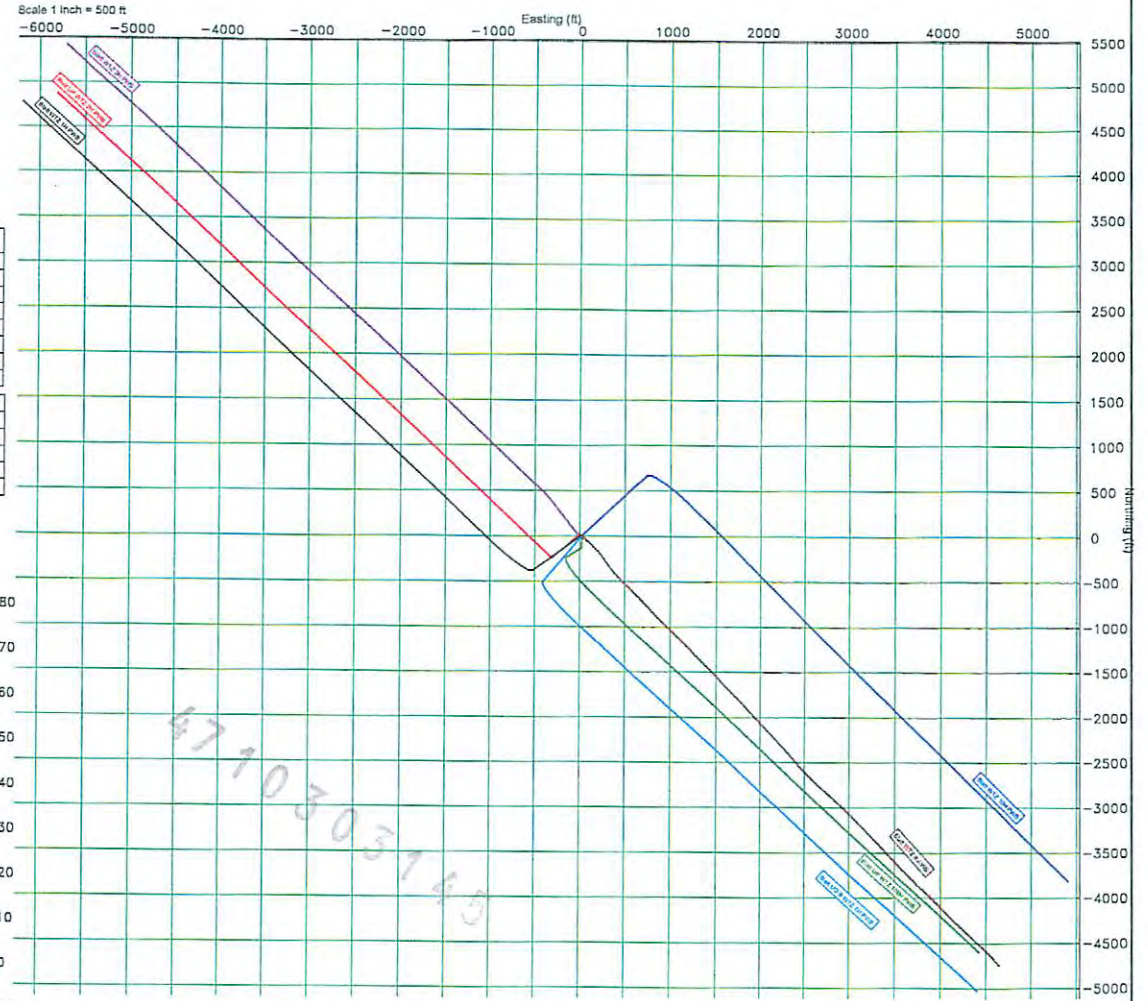
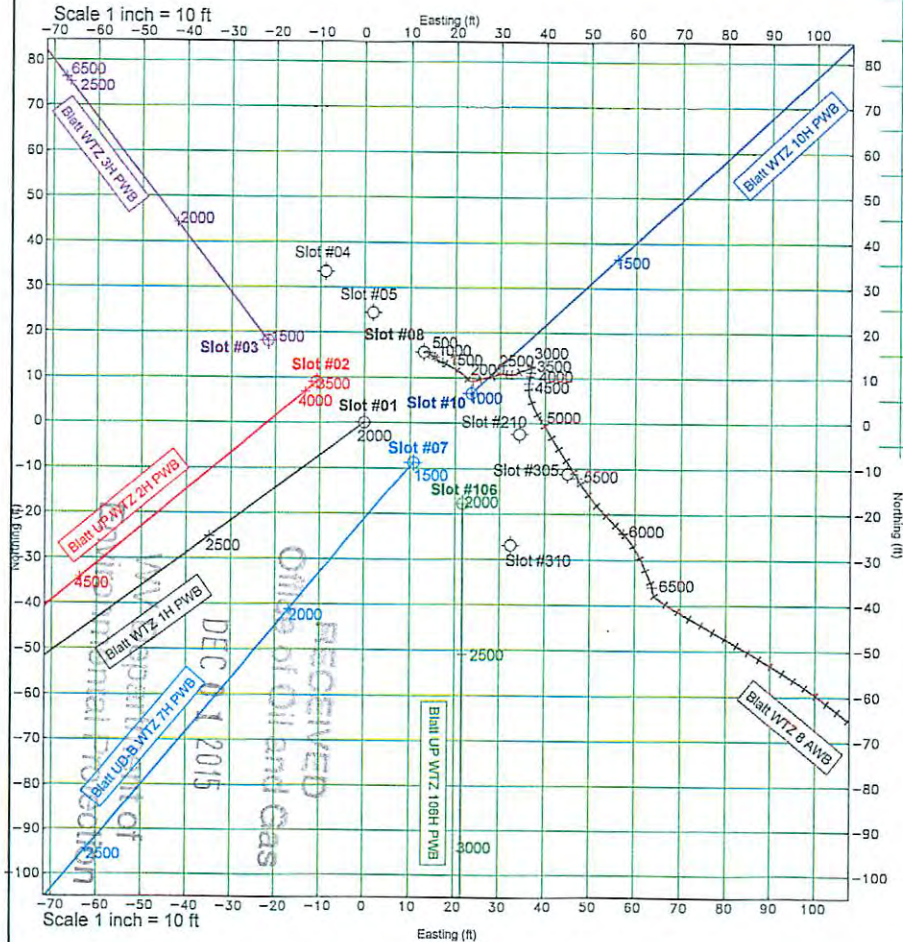
SOUTHWESTERN ENERGY

Location: Wetzel County, WV Slot: Slot #01
Field: Wetzel Well: Blatt WTZ 1H
Facility: Blatt WTZ Pad Wellbore: Blatt WTZ 1H PWB

Well Data

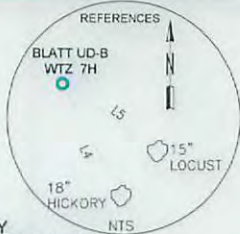
Slot	Well	Wellbore	Wellpath
Slot #01	Blatt WTZ 1H	Blatt WTZ 1H PWB	Blatt WTZ 1H PWP Ex-03
Slot #02	Blatt UP WTZ 2H	Blatt UP WTZ 2H PWB	Blatt UP WTZ 2H PWP Ex-01
Slot #03	Blatt WTZ 3H	Blatt WTZ 3H PWB	Blatt WTZ 3H PWP Ex-05
Slot #07	Blatt UD-B WTZ 7H	Blatt UD-B WTZ 7H PWB	Blatt UD-B WTZ 7H PWP Ex-03
Slot #08	Blatt WTZ 8	Blatt WTZ 8 AWP	Blatt WTZ 8 AWP
Slot #10	Blatt WTZ 10H	Blatt WTZ 10H PWB	Blatt WTZ 10H PWP Ex-01
Slot #10s	Blatt UP WTZ 106H	Blatt UP WTZ 106H PWB	Blatt UP WTZ 106H PWP Ex-01

Plot reference wellpath is Blatt WTZ 1H PWP Ex-03
 True vertical depths are referenced to Rig on Slot #03 (RT) Grid System: NAD83 / UTM Zone 17 North, US feet
 Measured depths are referenced to Rig on Slot #03 (RT) North Reference: Grid north
 Rig on Slot #03 (RT) to Mean Sea Level: 1302 feet Scale: True distance
 Mean Sea Level to Mud line (At Slot: Slot #01): -1280 feet Depths are in feet
 Coordinates are in feet referenced to Slot Created by: alvayes on 10/14/2015



Location Information						
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude		
Blatt WTZ Pad	1728103.520	14423463.500	39°42'57.510"N	80°41'17.441"W		
Slot Name	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Slot #01	0.00	0.00	1728103.520	14423463.500	39°42'57.510"N	80°41'17.441"W
Slot #02	9.07	-10.72	1728092.804	14423472.570	39°42'57.800"N	80°41'17.578"W
Slot #03	18.14	-21.72	1728081.805	14423481.635	39°42'57.690"N	80°41'17.718"W
Slot #07	-8.70	10.72	1728114.238	14423454.802	39°42'57.424"N	80°41'17.304"W
Slot #08	15.71	12.89	1728116.403	14423479.208	39°42'57.665"N	80°41'17.275"W
Slot #10	6.84	23.61	1728127.120	14423470.140	39°42'57.575"N	80°41'17.138"W
Slot #10s	-17.77	21.73	1728125.237	14423445.737	39°42'57.334"N	80°41'17.164"W
Rig on Slot #03 (RT) to Mud line (Facility - Blatt WTZ Pad)						22ft
Mean Sea Level to Mud line (Facility - Blatt WTZ Pad)						-1280ft
Rig on Slot #03 (RT) to Mean Sea Level						1302ft

JACKSON SURVEYING INC.
 P.O. Box 1460
 677 W. Main St
 Clarksburg, WV 26302
 304-623-5851

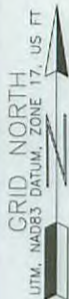


LINE	DESCRIPTION	DISTANCE	DESCRIPTION
L1	N87°54'04"E	1,411.87'	FD. 5/8" REBAR TO SHL
L2	N39°32'50"W	924.43'	FD. 1/2" REBAR TO SHL
L3	S03°11'29"W	941.45'	SHL TO LP1
L4	S27°33'33"E	186.56'	SHL TO 18" HICKORY
L5	S55°22'02"E	158.65'	SHL TO 15" LOCUST

- NOTES ON SURVEY**
- COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
 - SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
 - THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
 - NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
 - NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
 - NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
 - NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
 - ALL WELLS WITHIN 500' OF THE HORIZONTAL LEG ARE SHOWN ON THIS PLAT BASED UPON INFORMATION TAKEN FROM DEP MAPPING, WELL PLATS, AND AERIAL PHOTOS.

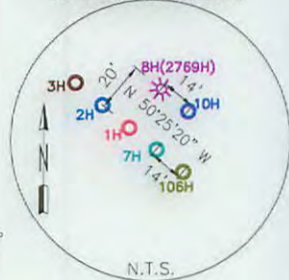
SWN PRODUCTION COMPANY, LLC
"BLATT UD-B Wtz 7H"
SURFACE HOLE
 ELEV: 1280.0'

TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	TAMI BLATT, KEVIN L. BLATT, TRUSTEE OF THE BLATT FAMILY IRREVOCABLE TRUST, MICHAEL J. BLATT & JANICE BLATT (S) / TAMI BLATT, KEVIN L. BLATT, TRUSTEE OF THE BLATT FAMILY IRREVOCABLE TRUST, MICHAEL J. BLATT & JANICE BLATT (R)	12-04-05	108.00
2	ANTHONY C. BLATT & REBECCA F. BLATT (S) / ANTHONY C. BLATT & REBECCA F. BLATT (R)	12-04-15	38.00
3	JOSEPH SHIBEN & MINNIE SHIBEN ESTATES, (S) / SHIBEN ESTATES INC. (R)	12-04-25	38.75
4	JAMES L. BITHELL & CHRISTOPHER P. BITHELL (S) / J. & V. HOLDINGS LLC, ROBERT COULTS & SHIRLEY COULTS (R)	12-04-26	180.53
5	JAMES L. BITHELL & CHRISTOPHER P. BITHELL (S) / J. & V. HOLDINGS LLC, ROBERT COULTS & SHIRLEY COULTS (R)	12-04-37	45.00
6	ANDREW D. SHULUGA & ANDREA M. SHULUGA (S) / THE JOSEPH D. DOPLER & GERMAINE C. DOPLER REVOCABLE LIVING TRUST, ANN MARIE DOPLER WOOLSEY, PATRICK L. DOPLER, KATHRYN ETHEL JEAN DOPLER ELVERUM, JACK ALEXANDER & GERRY ALEXANDER, JANA KAYE MULLIN BY HER AIF DAVID MULLIN, LESA ANNE ALEXANDER-DEMAN, THOMAS DANIEL DOPLER JR. & JERI H. DOPLER, ANNETTE DOPLER HOWELL, NANCY J. MELOY, DONALD R. SMITH, HAROLD J. STONE, LINDA G. MCMAHON (R)	12-09-08	50.00
7	MARK MASSARI (S) / MARK MASSARI, O.E. BURGE ET UX (R)	12-04-38	61.00



SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,396,277.816 EASTING: 526,730.274
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,395,991.306 EASTING: 526,714.299
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,394,749.603 EASTING: 528,070.034

REFERENCES TO PROPOSED HORIZONTAL WELLS SURFACE LOCATIONS



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

P.S. 708 *David L Jackson*



GRAPHIC SCALE IN FEET

COMPANY: **SWN** Production Company, LLC **SWN** Production Company™

(+) 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 SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)	COMPANY: SWN Production Company, LLC OPERATOR'S WELL #: 7H API WELL #: 47 103 314516A STATE COUNTY PERMIT
	WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input checked="" type="checkbox"/> DEEP <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> STORAGE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/>	WATERSHED: BLAKE FORK OF UPPER OHIO RIVER 2 DISTRICT: PROCTOR COUNTY: WETZEL SURFACE OWNER: TAMI BLATT, KEVIN L. BLATT (TRUSTEE IRR TRUST), MICHAEL J. BLATT & JANICE BLATT OIL & GAS ROYALTY OWNER: TAMI BLATT, KEVIN L. BLATT (TRUSTEE IRR TRUST), MICHAEL J. BLATT & JANICE BLATT

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 checked="" 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: 6,921' TVD 13,332' TMD
--	--

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC ADDRESS: P.O. BOX 1300 CITY: JANE LEW STATE: WV ZIP CODE: 26378	DESIGNATED AGENT: DEE SOUTHALL ADDRESS: P.O. BOX 1300 CITY: JANE LEW STATE: WV ZIP CODE: 26378
--	--

LEGEND: ● PROPOSED SURFACE HOLE / BOTTOM HOLE ✖ EXISTING / PRODUCING WELLHEAD ✖ ABANDONED WELL ✖ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR	--- LEASE BOUNDARY --- 500' DHP BUFFER --- MAR 7 --- MARCELLUS DHP --- ABANDONED PATH	REVISIONS: DATE: 11-12-2015 DRAWN BY: N. MANO SCALE: 1" = 2000' DRAWING NO: WELL LOCATION PLAT
---	--	---

JACKSON SURVEYING
INC.

P.O. Box 1460
677 W. Main St.
Clarksburg, WV 26302
304-623-5851

ADJOINING OWNERS

TRACT	ADJOINING SURFACE OWNER (S)	TAX PARCEL	ACRES
A	WEST VIRGINIA PROPERTIES LLC (S)	12-09-07	46.00
B	ROBERTA BROOKS ET AL (S)	12-04-36	44.25
C	JAMES L. BITHELL & CHRISTOPHER P. BITHELL (S)	12-04-35	59.39
D	JOHN H. MORGAN TRUSTEE & SUE M. MORGAN TRUSTEE MORGAN FAMILY (S)	12-04-34	19.03
E	PUAL G. & CYNTHIA G. FOX (S)	12-04-24	50.00
F	ANTHONY C. & REBECCA F. BLATT (S)	12-04-14	37.00
G	LAWERENCE E. BLATT ET AL (S)	12-04-04	106.26
H	KIMBERLY C. HOFFMAN (S)	12-04-40	30.00
I	ZACHARY M. BLAIR (S)	09-21-20	84.55
J	RHODA C. & CLEO M. SIVERT (S)	12-04-06	101.30
K	RHODA C. & CLEO M. SIVERT (S)	12-04-16	16.75
L	JAMES L. BITHELL & CHRISTOPHER P. BITHELL (S)	12-04-17	44.50
M	RHODA C. & CLEO M. SIVERT (S)	12-04-07	19.25
N	JOHN STULGA (S)	12-04-19	50.00
O	CLAUDIA MECKEL-JONAS ET AL (S)	12-04-27	45.00
P	JAMES L. & HAZEL JORETTA RITCHEA (S)	12-04-39	25.00
Q	ROY L. JR. & CHRIS WALTER (S)	12-05-29	5.75
R	ANDREW D. & ANDREA M. SHULUGA (S)	12-10-01	67.77
S	ANDREW D. & ANDREA M. SHULUGA (S)	12-09-15	50.50
T	ANDREW D. & ANDREA M. SHULUGA (S)	12-09-13	51.00
U	ANDREW D. & ANDREA M. SHULUGA (S)	12-09-09	11.00

02/05/2016

REVISIONS:	COMPANY:	SWN Production Company, LLC	SWN Production Company™
	OPERATOR'S	BLATT UD-B WTZ	DATE: 11-12-2015
	WELL #:	7H	DRAWN BY: N. MANO
	LOCATION:	PROCTOR DISTRICT, WETZEL COUNTY, WEST VIRGINIA	SCALE: N/A
			DRAWING NO: ADJOINING OWNERS

**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"

4710305145

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

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Office of Oil and Gas

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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:

West Virginia Department of
Environmental Protection

- 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: *[Signature]*
 Its: Landman

Tract #	TMP	Surface Owner	Deeded Acreage	Vesting BK/PG	Mineral Deeds	Lease #	Lessor	Lessee	Royalty	BK/PG
1)	12-4-5	Tami Blatt	108.00	DB 366/638	DB 366/638 DB 366/642 DB 366/650 DB 366/646 DB 428/844	1-254825-000	Edward Blatt, et al	Manufacturers Light & Heat Company	12.50%	45A/310
		Kevin L. Blatt, Trustee of the Blatt Family Irrevocable Trust								
		Michael J. Blatt and Janice Blatt								
		Mineral Owner								
Mineral Owner	Tami Blatt	DB 366/638	Manufacturers Light & Heat Company	Columbia Gas Transmission	N/A	263/194				
Mineral Owner	Kevin L. Blatt, Trustee of the Blatt Family Irrevocable Trust	DB 366/642	Columbia Gas Transmission	Chesapeake Appalachia LLC	N/A	663/592				
	Michael J. Blatt and Janice Blatt	DB 366/650	Chesapeake Appalachia LLC	SWN Production Company LLC	N/A	33/110				
		DB 428/844	Chesapeake Appalachia LLC	SWN Production Company LLC	N/A	33/110				
2)	12-4-15	Anthony C. Blatt and Rebecca F. Blatt	38.00	DB 398/189	DB 398/189 DB 276/420	1-254836-000	B.G. Weigand	Manufacturers Light & Heat Company	12.50%	45A/317
		Anthony C. Blatt and Rebecca F. Blatt								
		Mineral Owner								
		DB 276/420	Manufacturers Light & Heat Company	Columbia Gas Transmission	N/A	263/194				
			Columbia Gas Transmission	Chesapeake Appalachia LLC	N/A	663/592				
			Chesapeake Appalachia LLC	SWN Production Company LLC	N/A	33/110				
3)	12-4-25	Joseph Shibben & Minnie Shibben Estates	38.75	DB 158/48	DB 294/442	1-254844-000	Estate of Joseph and Minnie Shibben, et al	Manufacturers Light & Heat Company	12.50%	45A/451
		Shibben Estates Inc.								
		Mineral Owner								
			Manufacturers Light & Heat Company	Columbia Gas Transmission	N/A	263/194				
			Columbia Gas Transmission	Chesapeake Appalachia LLC	N/A	663/592				
			Chesapeake Appalachia LLC	SWN Production Company LLC	N/A	33/110				
4)	12-4-26	James L. Bithell & Christopher P. Bithell	180.53	DB 428/338	DB 436/45 DB 421/321	1-225929-000	Vivian Dillon	Chesapeake Appalachia LLC	12.50%	84A/401
		L&V Holdings LLC								
Mineral Owner	Robert Coutts & Shirley Coutts		Chesapeake Appalachia LLC	SWN Production Company LLC	N/A	33/110				
5)	12-4-37	James L. Bithell & Christopher P. Bithell	45.00	DB 428/338	DB 436/45 DB 421/321	1-250051-001	Vivian Dillon	Chesapeake Appalachia LLC	12.50%	92A/347
		L&V Holdings LLC								
Mineral Owner	Robert Coutts & Shirley Coutts		Chesapeake Appalachia LLC	SWN Production Company LLC	N/A	33/110				
6)	12-9-8	Andrew D. Shuluga & Andrea M. Shuluga	50.00	DB 404/685		1-314319-001	The Joseph D. Dopler & Germaine C. Dopler Revocable Living Trust	Chesapeake Appalachia LLC	17.00%	118A/588
		The Joseph D. Dopler & Germaine C. Dopler Revocable Living Trust		WB 62/206	1-314319-004		Ann Marie Dopler Woolsey	Chesapeake Appalachia LLC	18.75%	117A/301
		Mineral Owner		WB 184/416	1-314319-005		Patrick L. Dopler	Chesapeake Appalachia LLC	18.75%	117A/280
		Mineral Owner		WB 184/416	1-314319-009		Kathryn Ethel Jean Dopler Elverum	Chesapeake Appalachia LLC	18.75%	118A/533
		Mineral Owner		WB 184/416	1-314319-007		Jack Alexander & Gerry Alexander	Chesapeake Appalachia LLC	18.75%	117A/519
		Mineral Owner		WB 184/416	1-314319-008		Jana Kaye Mullin by her AIF David Mullin	Chesapeake Appalachia LLC	18.75%	118A/69
		Mineral Owner		WB 184/416	1-314319-006		Lesla Anne Alexander-Deiman	Chesapeake Appalachia LLC	18.75%	117A/523
		Mineral Owner		WB 184/416	1-314319-003		Thomas Daniel Dopler Jr. & Jeri H. Dopler	Chesapeake Appalachia LLC	18.75%	116A/661
		Mineral Owner		WB 184/416	1-314319-002		Annette Dopler Howell	Chesapeake Appalachia LLC	18.75%	116A/626
		Mineral Owner		WB 184/416	1-314319-012		Nancy J. Meloy	Chesapeake Appalachia LLC	17.00%	121A/839
		Mineral Owner		CASE # R93-9-69	1-314319-011		Donald R. Smith	Chesapeake Appalachia LLC	17.00%	121A/843
		Mineral Owner		CASE # R93-9-69	1-314319-013		Harold J. Stone	Chesapeake Appalachia LLC	17.00%	124A/432
		Mineral Owner		CASE # R79-11-59	1-314319-010		Linda G. McMahon	Chesapeake Appalachia LLC	17.00%	119A/567
		Mineral Owner		DB 424/468			Chesapeake Appalachia LLC	SWN Production Company LLC	N/A	33/110
7)	12-4-38	Mark Massari	61.00	DB 402/42		1-228456-002	Mark Massari	Chesapeake Appalachia LLC	12.50%	99A/16
		Mineral Owner		DB 402/42	1-228456-001		O.E. Burge et ux	Chesapeake Appalachia LLC	12.50%	86A/202
		Mineral Owner		DB 204/426			Chesapeake Appalachia LLC	SWN Production Company LLC	N/A	33/110

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ADJOINING TRACTS

A)	12-9-7	West Virginia Properties LLC	46.00	DB 418/134
B)	12-4-36	Roberta Brooks et al	44.25	DB 428/911
C)	12-4-35	James L. Bithell & Christopher P. Bithell	59.39	DB 428/338
D)	12-4-34	John H. Morgan & Sue M. Morgan, Trustees	19.03	DB 362/686
E)	12-4-24	Paul Fox & Cynthia Fox	50.00	DB 396/514
				DB 398/189
F)	12-4-14	Anthony C. Blatt and Rebecca F. Blatt	37.00	DB 276/420
				DB 366/638
		Tami Blatt		DB 366/642
		Kevin L. Blatt, Trustee of the Blatt Family		DB 366/650
		Irrevocable Trust		DB 366/646
G)	12-4-4	Michael J. Blatt and Janice Blatt	106.26	DB 428/844
H)	12-4-40	Kimberly C. Hoffman	30.00	DB 420/899
I)	9-21-20	Zachary M. Blair	84.55	DB 617/284
J)	12-4-6	Rhoda C. Sivert & Cleo M. Sivert	101.30	DB 340/434
K)	12-4-16	Rhoda C. Sivert & Cleo M. Sivert	16.75	DB 340/434
L)	12-4-17	James L. Bithell & Christopher P. Bithell	44.50	DB 428/338
M)	12-4-7	Rhoda C. Sivert & Cleo M. Sivert	19.25	DB 340/434
N)	12-4-19	John Stugla	50.00	DB 300/82
O)	12-4-27	Claudia Meckel Jonas et al	45.00	DB 386/613
P)	12-4-39	James L. Ritchea & Hazel Joretta Ritchea	25.00	DB 360/353
Q)	12-5-29	Roy L. Walter Jr. & Chris Walter	5.75	DB 402/45
R)	12-10-1	Andrew D. Shuluga & Andrea M. Shuluga	67.77	DB 404/685
S)	12-9-15	Andrew D. Shuluga & Andrea M. Shuluga	50.5	DB 404/685
T)	12-9-13	Andrew D. Shuluga & Andrea M. Shuluga	51.00	DB 404/685
U)	12-9-9	Andrew D. Shuluga & Andrea M. Shuluga	11.00	DB 404/685

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WV Department of
Environmental Protection

SWN

Southwestern Energy®

PO Box 1300
Jane Lew, WV 26378
PHONE: (832) 796-1610

November 24, 2015

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

RE: SWN's proposed Blatt UD-B WTZ 7H & Blatt UP WTZ 106H in Wetzel County, West Virginia, Drilling under Middle Fork Road.

Dear Ms. Cooper:

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 Middle Fork 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,



Caleb Weaver
Landman
SWN Production Company, LLC
PO Box 1300
Jane Lew, WV 26378

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The Right People doing the Right Things,
wisely Investing the cash flow from
our underlying Assets, will create Value+
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WV Department of
Environmental Protection

02/05/2016

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

Date of Notice Certification: 11/30/15

API No. 47- 103 -
 Operator's Well No. Blatt UD-B Wtz 7H
 Well Pad Name: Blatt

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State: <u>WV</u>	UTM NAD 83	Easting: <u>526730.274</u>
County: <u>103-Wetzel</u>		Northing: <u>4396277.816</u>
District: <u>7-Proctor</u>	Public Road Access: <u>St. Joseph Baker Hill</u>	
Quadrangle: <u>681-Wileyville</u>	Generally used farm name: <u>Blatt</u>	
Watershed: <u>Blake Fork of Upper Ohio River 2</u>		

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 Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY <input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED <input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED <input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) <input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION <input checked="" type="checkbox"/> 5. PUBLIC NOTICE <input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION	OOG OFFICE USE ONLY <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED
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47 103 03 145

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.

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 11/30/15 Date Permit Application Filed: 11/30/15

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") 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.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

1710303145

SURFACE OWNER(s)
Name: Lawrence & Irene Blatt
Address: 760 Northeast Ave
Tallmadge, OH 44278

Name: Michael & Janice Blatt
Address: 820 South Munroe Road
Tallmadge OH 44278

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: _____
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: CNX Center %Leatherwood
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: None
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: Columbia Gas Transmission Attn: John Shelton
Address: 1700 MacCorkle Ave SE/PO Box 1273
Charleston, WV 25325

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Office of Oil and Gas

*Please attach additional forms if necessary

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 11/31/15 Date Permit Application Filed: 11/31/15

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") 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.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)
Name: Tami Blatt
Address: 760 Northeast Ave
Tallmadge, OH 44278

Name: Patsdy Dulany & Dennis Romanoski
Address: 1303 2nd Street
Moundsville, WV 26041

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: _____
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: _____
Address: _____

COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: _____
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

*Please attach additional forms if necessary

RECEIVED
Office of Oil and Gas

DEC 01 2015

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-and-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

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:

47-10303-1-15

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

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.**

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WV Department of Environmental Protection
02/09/2016

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.

47 10303145

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WV Department of
Environmental Protection 02/05/2016

WW-6A
(8-13)

API NO. 47- 103 -
OPERATOR WELL NO. Blatt UD-B Wtz 7H
Well Pad Name: Blatt

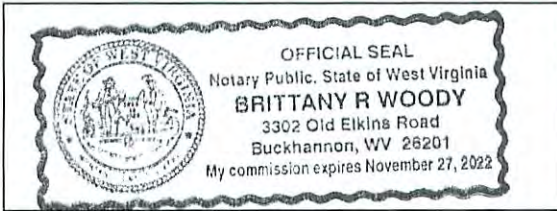
Notice is hereby given by:

Well Operator: SWN Production Co., LLC
Telephone: 304-884-1613
Email: Dee_Southall@swn.com

Address: P.O. Box 1300
Jane Lew, WV 26378
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.



Subscribed and sworn before me this 13th day of November 2015
Brittany R Woody Notary Public
My Commission Expires 11/27/22

4710303145

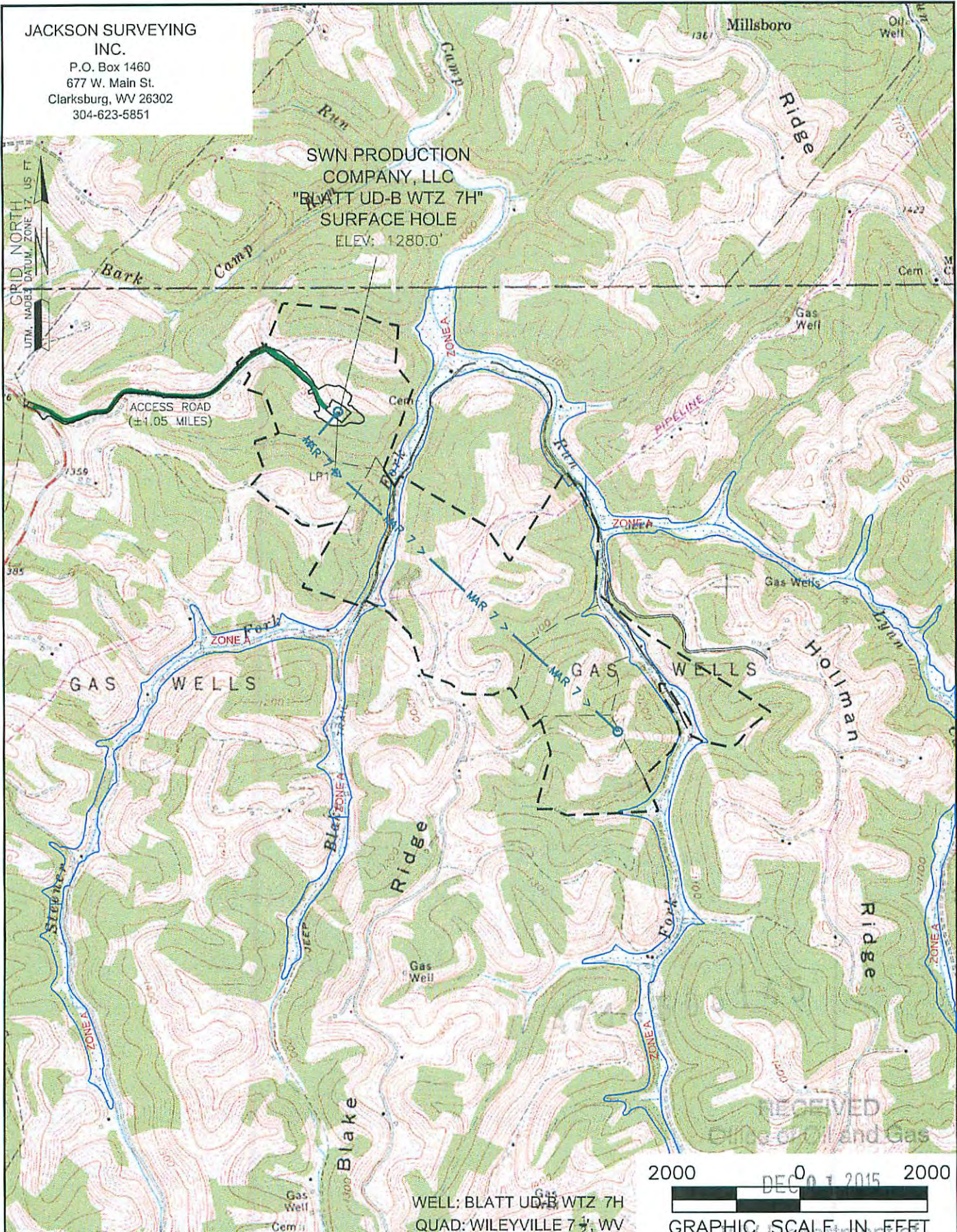
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WV Department of
Environmental Protection
02/05/2016

JACKSON SURVEYING
 INC.
 P.O. Box 1460
 677 W. Main St.
 Clarksburg, WV 26302
 304-623-5851

SWN PRODUCTION
 COMPANY, LLC
 "BLATT UD-B WTZ 7H"
 SURFACE HOLE
 ELEV: 1280.0'



WELL: BLATT UD-B WTZ 7H
 QUAD: WILEYVILLE 7 1/2, WV

2000 0 2000
 GRAPHIC SCALE IN FEET

NAME AND DISTANCE TO THE NEAREST STREAM: BLAKE FORK IS LOCATED ±0.23 MILES SE OF THE CENTER OF THE DRILL PAD.		STREAM CROSSING COORDINATES (NAD 83): NO NEW CROSSINGS.	COMPANY: SWN Environmental Production Production Company, LLC
WELL RESTRICTIONS: WELL PAD, LOD, & E & S CONTROL FEATURES TO PERENNIAL STREAM, LAKE, POND, RESERVOIR OR WETLAND: >100 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO NATURALLY PRODUCING TROUT STREAM: >300 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY: >1000 FEET WELL SHL TO EXISTING WATER WELL OR DEVELOPED SPRING: >250 FEET CENTER OF PAD TO OCCUPIED DWELLING STRUCTURE: >625 FEET CENTER OF PAD TO AGRICULTURAL BUILDINGS LARGER THAN 2500 SQ FT: >625 FEET		OPERATOR'S BLATT UD-B WTZ WELL #: 7H	
FEMA FLOOD INFORMATION: BY GRAPHIC PLOTTING ONLY FEMA FIRM INCORPORATED AREA OF WETZEL COUNTY, WEST VIRGINIA; MAP NUMBER 54103C0075 C; EFFECTIVE DATE: SEPTEMBER 25, 2009. NO FEMA MAP AVAILABLE FOR MARSHALL COUNTY SECTION.		LOCATION: PROCTOR DISTRICT, WETZEL COUNTY, WEST VIRGINIA	
LEGEND: ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ⊙ EXISTING / PRODUCING WELLHEAD ⊗ ABANDONED WELL ⊗ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR		SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 39.715951° LONGITUDE: -80.688140° BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 39.702139° LONGITUDE: -80.672574°	
<ul style="list-style-type: none"> ⊙ EXISTING SPRING ⊙ EXISTING WATER WELL — ACCESS ROAD — ACCESS ROAD TO PREV. SITE — HIGHWAY/INTERSTATE — COUNTY ROAD 		REVISIONS: DATE: 11-12-2015 DRAWN BY: N. MANO SCALE: 1" = 2000' DRAWING NO: TOPOGRAPHIC MAP	

02/05/2016

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 Requirement: Notice shall be provided at least **TEN (10)** days prior to filing a permit application.

Date of Notice: 11/16/2015 **Date Permit Application Filed:** 11/30/15

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

HAND DELIVERY CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: Michael J. Blatt and Janice M. Blatt
Address: 820 South Munroe Road
Tallmadge, OH 44278

Name: 4710303145
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: West Virginia UTM NAD 83 Easting: 526,730.274
County: Wetzel Northing: 4,396,277.816
District: Proctor Public Road Access: Bark Camp Run
Quadrangle: Wileyville Generally used farm name: _____
Watershed: Blake Fork of Upper Ohio River 2

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. 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-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: SWN Production Company, LLC
Address: PO Box 1300, 179 Innovation Drive
Jane Lew, WV 26378
Telephone: 304-884-1611
Email: Micah_Feather@swn.com
Facsimile: _____

Authorized Representative: Micah Feather
Address: PO Box 1300, 179 Innovation Drive
Jane Lew, WV 26378
Telephone: 304-884-1611
Email: Micah_Feather@swn.com
Facsimile: _____

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Office of Oil and Gas

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 of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

DEC 01 2015

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 Requirement: Notice shall be provided at least **TEN (10)** days prior to filing a permit application.

Date of Notice: 11/16/2015 **Date Permit Application Filed:** 11/30/15

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

HAND DELIVERY **CERTIFIED MAIL RETURN RECEIPT REQUESTED**

4710305145

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: Blatt Family Irrevocable Trust - Kevin L. Blatt, Trustee
Address: 760 North Court Avenue
Tallmadge, OH 44278

Name: _____
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>526,730.274</u>
County:	<u>Wetzel</u>		Northing:	<u>4,396,277.816</u>
District:	<u>Proctor</u>	Public Road Access:	<u>Bark Camp Run</u>	
Quadrangle:	<u>Wileyville</u>	Generally used farm name:	_____	
Watershed:	<u>Blake Fork of Upper Ohio River 2</u>			

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. 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-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: SWN Production Company, LLC
Address: PO Box 1300, 179 Innovation Drive
Jane Lew, WV 26378
Telephone: 304-884-1611
Email: Micah_Feather@swn.com
Facsimile: _____

Authorized Representative: Micah Feather
Address: PO Box 1300, 179 Innovation Drive
Jane Lew, WV 26378
Telephone: 304-884-1611
Email: Micah_Feather@swn.com
Facsimile: _____

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Office of Oil and Gas

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 of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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 Requirement: Notice shall be provided at least **TEN (10)** days prior to filing a permit application.

Date of Notice: 11/16/2015 **Date Permit Application Filed:** 11/30/15

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

HAND DELIVERY **CERTIFIED MAIL RETURN RECEIPT REQUESTED**

47 10305145

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: Tami M. Blatt
Address: 1298 East Avenue
Tallmadge, OH 44278

Name: _____
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: West Virginia UTM NAD 83 Easting: 526,730.274
County: Wetzel Northing: 4,396,277.816
District: Proctor Public Road Access: Bark Camp Run
Quadrangle: Wileyville Generally used farm name: _____
Watershed: Blake Fork of Upper Ohio River 2

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. 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-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: SWN Production Company, LLC
Address: PO Box 1300, 179 Innovation Drive
Jane Lew, WV 26378
Telephone: 304-884-1611
Email: Micah_Feather@swn.com
Facsimile: _____

Authorized Representative: Micah Feather
Address: PO Box 1300, 179 Innovation Drive
Jane Lew, WV 26378
Telephone: 304-884-1611
Email: Micah_Feather@swn.com
Facsimile: _____

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Office of Oil and Gas
DEC 11 2015
WV Department of
Environmental Protection

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

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 11/16/2015 **Date Permit Application Filed:** 11/30/15

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

- CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: <u>Blatt Family Irrevocable Trust - Kevin L. Blatt, Trustee</u>	Name: _____
Address: <u>760 North Court Avenue</u>	Address: _____
<u>Tallmadge, OH 44278</u>	_____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>526,730.274</u>
County: <u>Wetzel</u>	Northing: <u>4,396,277.816</u>
District: <u>Proctor</u>	Public Road Access: <u>Bark Camp Run</u>
Quadrangle: <u>Willeyville</u>	Generally used farm name: _____
Watershed: <u>Blake Fork of Upper Ohio River 2</u>	_____

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. 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-and-gas/pages/default.aspx.

Well Operator: <u>SWN Production Company, LLC</u>	Address: <u>PO Box 1300, 179 Innovation Drive</u>
Telephone: <u>304-884-1611</u>	<u>Jane Lew, WV 26378</u>
Email: <u>Micah_Feather@swn.com</u>	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 of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

DEC 01 2015

WV Department of
Environmental Protection

02/05/2016

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

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 11/16/2015 **Date Permit Application Filed:** 11/30/15

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name: Tami M. Blatt
Address: 1298 East Avenue
Tallmadge, OH 44278

Name: _____
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>526,730.274</u>
County:	<u>Wetzel</u>		Northing:	<u>4,396,277.816</u>
District:	<u>Proctor</u>	Public Road Access:	<u>Bark Camp Run</u>	
Quadrangle:	<u>Willeyville</u>	Generally used farm name:	_____	
Watershed:	<u>Blake Fork of Upper Ohio River 2</u>			

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. 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-and-gas/pages/default.aspx.

Well Operator: SWN Production Company, LLC
Telephone: 304-884-1611
Email: Micah_Feather@swn.com

Address: PO Box 1300, 179 Innovation Drive
Jane Lew, WV 26378
Facsimile: _____

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Office of Oil and Gas
WV Department of
Environmental Protection

02/05/2016

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

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Delivery method pursuant to West Virginia Code § 22-6A-16(c)

- CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

47 10302813

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Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name: <u>Michael J. Blatt and Janice M. Blatt</u>	Name: _____
Address: <u>820 South Munroe Road</u>	Address: _____
<u>Tallmadge, OH 44278</u>	_____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>526,730.274</u>
County: <u>Wetzel</u>	Northing: <u>4,396,277.816</u>
District: <u>Proctor</u>	Public Road Access: <u>Bark Camp Run</u>
Quadrangle: <u>Willeyville</u>	Generally used farm name: _____
Watershed: <u>Blake Fork of Upper Ohio River 2</u>	

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. 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-and-gas/pages/default.aspx.

Well Operator: <u>SWN Production Company, LLC</u>	Address: <u>PO Box 1300, 179 Innovation Drive</u>
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Email: <u>Micah_Feather@swn.com</u>	Facsimile: _____

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DEC 01 2015
WV Department of
Environmental Protection



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Earl Ray Tomblin
Governor

Paul A. Mattox, Jr., P. E.
Secretary of Transportation/
Commissioner of Highways

November 17, 2015

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 Blatt Pad UD-B WTZ 7H Well Site, Wetzel County

Dear Mr. Martin,

The West Virginia Division of Highways has transferred permit 06-2012-0264 to Southwestern Energy for access to the State Road for the well site located off of Wetzel County Route 4 SLS.

The operator has signed an 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 January 3, 2012.

4710305145

Very Truly Yours,

Gary K. Clayton
Regional Maintenance Engineer
Central Office Oil & Gas Coordinator

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

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WV Department of
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02/05/2016

Supplier Name	Product Name	Product Use	Chemical Name	CAS Number
NALCO ONESOURCE	EC6110A	Biocide	Ethanol	000064-17-5
			Glutaraldehyde (Pentanediol)	000111-30-8
			Quaternary Ammonium Compounds	N/A-063
	EC6629A	Biocide	No Hazardous Components	NONE
WEATHERFORD	WBK-133 OXIDIZER	Breaker	Ammonium Persulfate	007727-54-0
	WBK-134	Breaker	Ammonium Persulfate	007727-54-0
			Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7
	WCS-631LC	Clay Stabilizer	Proprietary Non Hazardous Salt	N/A-229
			Water	007732-18-5
	WFR-55LA	Friction Reducer	No Hazardous Components	NONE
	WGA-15L	Gel	Petroleum Distillate Hydrotreated Light	064742-47-8
	WPB-584-L	Buffer	Potassium Carbonate	000584-08-7
			Potassium Hydroxide	001310-58-3
	WXL-101LE	Corsslinker	No Hazardous Components	NONE
	WXL-101LM	Crosslinker	Petroleum Distillate Hydrotreated Light	064742-47-8
	WXL-105L	Crosslinker	Water	007732-18-5
Ethylene Glycol			000107-21-1	
Boric Acid			010043-35-3	
Ethanolamine			000141-43-5	
SCHLUMBERGER	B244 Green-Cide 25G	Biocide	Glutaraldehyde	111-30-8
	L071 Temporary Clay Stabilizer	Clay Stabilizer	Cholinium Chloride	67-48-1
	Breaker J218	Breaker	Diammonium Peroxidisulphate	7727-54-0
	EB-Clean* J475 Breaker		Diammonium Peroxidisulphate	7727-54-0
	Friction Reducer B315	Friction Reducer	Distillates (petroleum), Hydrotreated light Aliphatic Alcohol Glycol Ether	64742-47-8 Proprietary
	Friction Reducer J609		Ammonium Sulfate	7783-20-2

67-40305145
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WV Department of
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02/05/2016

Supplier Name	Product Name	Product Use	Chemical Name	CAS Number
SCHLUMBERGER	Water Gelling Agent J580	Gel	Carbohydrate Polymer	Proprietary
	Scale Inhibitor B317	Scale Inhibitor	Trisodium ortho phosphate Ethane-1, 2-diol	7601-54-9 107-21-1
	Borate Crosslinker J532	Crosslinker	Aliphatic polyol Sodium tetraborate decahydrate	Proprietary 1303 96-4
	Crosslinker J610		Aliphatic polyol Potassium hydroxide	Proprietary 1310 58-3

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WV Department of
Environmental Protection

02/05/2016

Supplier Name	Product Name	Product Use	Chemical Name	CAS Number
BAKER HUGHES	ALPHA 1427	Biocide	Didecyl Dimethyl Ammonium Chloride	007173-51-1
			Ethanol	000064-17-5
			Glutaraldehyde (Pentanediol)	000111-30-8
			Quaternary Ammonium Compound	068424-85-1
			Water	007732-18-5
	BF-7L	Buffer	Potassium Carbonate	000584-08-7
	ClayCare	Clay Stabilizer	Choline Chloride	000067-48-1
			Water	007732-18-5
	Enzyme G-I	Breaker	No Hazardous Components	NONE
	ENZYME G-NE	Breaker	No Hazardous Components	NONE
	FRW-18	Friction Reducer	Petroleum Distillate Hydrotreated Light	064742-47-8
	GW-3LDF	Gel	Petroleum Distillate Blend	N/A-014
			Polysaccharide Blend	N/A-021
SCALETROL 720	Scale Inhibitor	Diethylene Glycol	000111-46-6	
		Ethylene Glycol	000107-21-1	
XLW-32	Crosslinker	Boric Acid	010043-35-3	
		Methanol (Methyl Alcohol)	000067-56-1	
FRAC TECH SERVICES	APB01 (AMMONIUM PERSUFATE BREAKER)	Breaker	Ammonium Persulfate	007727-54-0
	B05 (LOW PH BUFFER)	Buffer	Acetic acid	000064-19-7
	BXL03 Borate XL Delayed High Temp	Crosslinker	No Hazardous Components	NONE
	FRW-200	Friction Reducer	No Hazardous Components	NONE
	HVG01 (TURQUOISE-1 BULK)	Gelling Agent	Petroleum Distillate Hydrotreated Light	064742-47-8
	KCLS-4	Clay Stabilizer	No Hazardous Components	NONE
	LTB-1	Breaker	Ammonium Persulfate	N/A

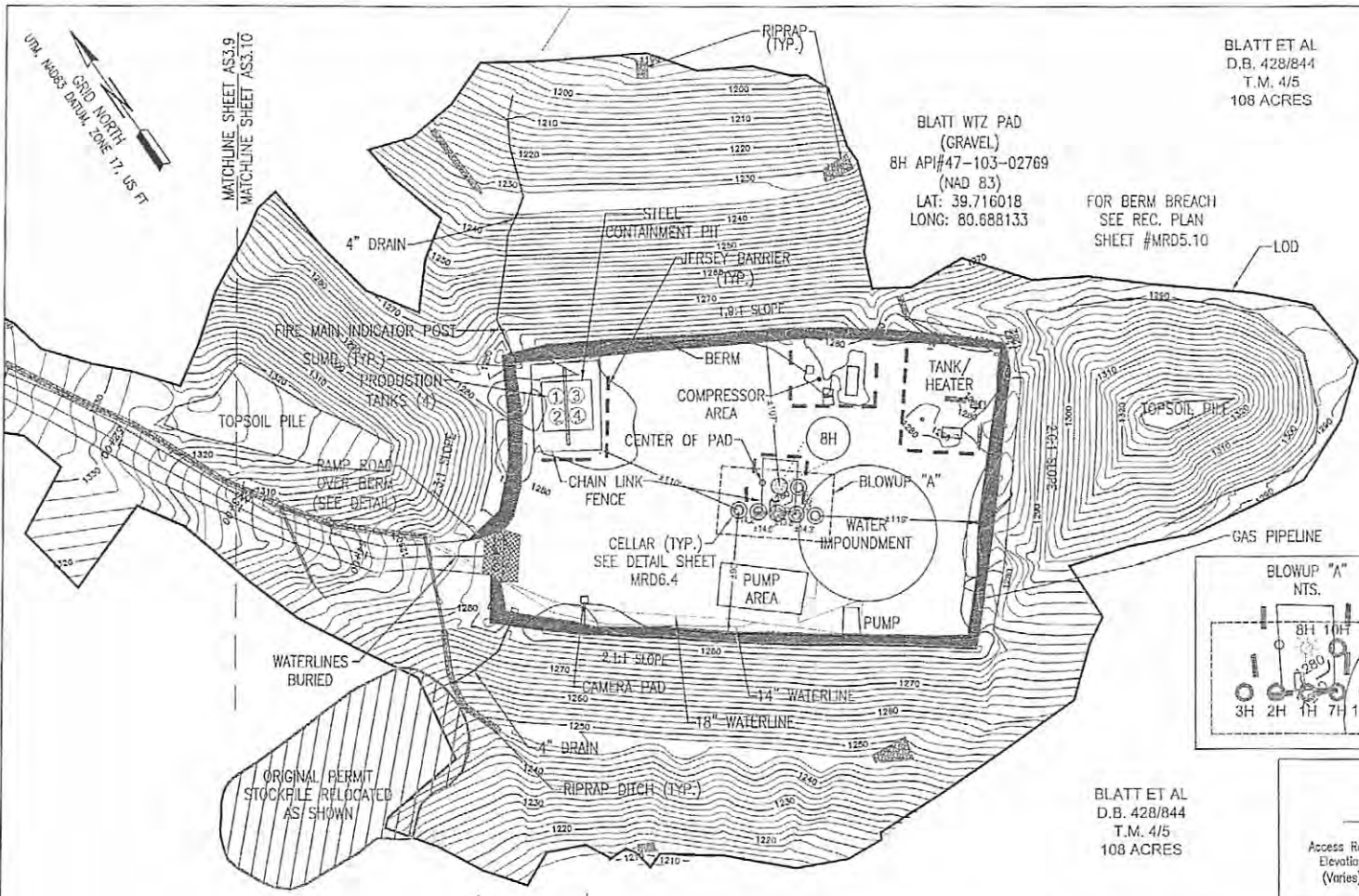
6710305145

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WV Department of
Environmental Protection

02/05/2016



BLATT ET AL
D.B. 428/844
T.M. 4/5
108 ACRES

BLATT Wtz PAD
(GRAVEL)
8H API#47-103-02769
(NAD 83)
LAT: 39.716018
LONG: 80.688133

FOR BERM BREACH
SEE REC. PLAN
SHEET #MRD5.10

- LEGEND -

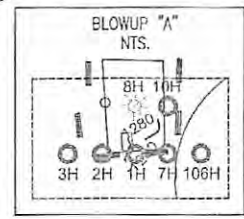
- EDGE ACCESS ROAD
- PUBLIC/Private ROAD
- MODIFIED LOD
- FENCE
- PROPERTY LINES
- OVERHEAD UTILITIES
- CL ACCESS ROAD
- GAS LINE
- DITCH
- MINOR CONTOUR AS BUILT
- MAJOR CONTOUR AS-BUILT
- 8" COMPOST FILTER SOCK

RED TEXT INDICATES ITEMS TO BE CONSTRUCTED PRIOR TO DRILLING ACTIVITY.

**WVDEP OOG
ACCEPTED AS-BUILT**

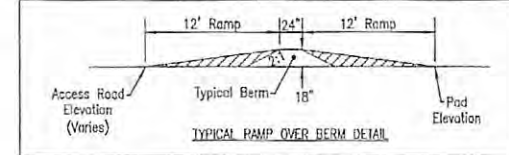
12/16/2015

REVISION	DATE
CHANGES PER DEP	11-24-2015
CHANGES PER DEP	12-15-2015



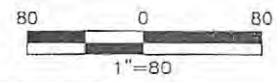
PRODUCTION TANKS (UTM METERS)

	Northing	Easting
#1	4,396,330.658	526,701.882
#2	4,396,326.812	526,699.464
#3	4,396,328.228	526,705.739
#4	4,396,324.382	526,703.315

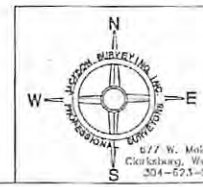


BLATT ET AL
D.B. 428/844
T.M. 4/5
108 ACRES

SWN
Production Company



Dennis L. Fisher RPE 6684
Date: 12-16-2015



Jackson Surveying Inc.
CONSTRUCTION AND RECLAMATION
ASBUILT
AS3.10
SOUTHWESTERN PRODUCTION COMPANY LLC
BLATT Wtz PAD
PROCTOR DISTRICT, WETZEL COUNTY, WV
NOVEMBER 20, 2015