

west virginia department of environmental protection

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

Friday, September 29, 2017 WELL WORK PERMIT Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit approval for BLATT WTZ 5H 47-103-03193-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin Chief

Operator's Well Number: BLATT WTZ 5H Farm Name: TAMI M. BLATT MICHAEL J. BLATT & JANICE M. BLATT L U.S. WELL NUMBER: 47-103-03193-00-00 Horizontal 6A / New Drill Date Issued: 9/29/2017

Promoting a healthy environment.

API Number: 103-03/93

PERMIT CONDITIONS

047-103-03193

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

CONDITIONS

- This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

PERMIT CONDITIONS

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047-103-03193

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

4710303193 API NO. 47-

WW-6B (04/15)

OPERATOR WELL NO. Blatt WTZ 5H Well Pad Name: Blatt WTZ Pad

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 12-Proct	81-Wileyville
Operator ID County District Q	Quadrangle
2) Operator's Well Number: Blatt WTZ 5H Well Pad Name: Blatt WTZ Pad	
3) Farm Name/Surface Owner: Tami M. Blatt, Michael J. Blatt & Janice Blatt, Lawrence Blatt, Dublic Road Access: St. Joseph Bake	er Hill
4) Elevation, current ground: <u>1279'</u> Elevation, proposed post-construction: <u>1279'</u>	
5) Well Type (a) Gas X Oil Underground Storage	
Other	
(b)If Gas Shallow X Deep	
Horizontal x	D
6) Existing Pad: Yes or No yes	DmH 5-17-11
7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s): Target Formation- Marcellus, Target Top TVD-7037', Target Base TVD-7079', Anticipated Thickness-42', Associated Pressure-4590	5-17-h
8) Proposed Total Vertical Depth: 7065'	
9) Formation at Total Vertical Depth: Marcellus	
10) Proposed Total Measured Depth: 14770'	
11) Proposed Horizontal Leg Length: 7103.95'	
12) Approximate Fresh Water Strata Depths: 257'	
13) Method to Determine Fresh Water Depths: Offset water depths and existing WR-35	
14) Approximate Saltwater Depths: <u>1780'</u>	
15) Approximate Coal Seam Depths: 1108'	
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	
(a) If Yes, provide Mine Info: Name:	
Depth:	
Seam:	
Owner:	
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JUN 1 5 2017	

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API NO. 47-____-

OPERATOR WELL NO. Blatt WTZ 5H Well Pad Name: Blatt WTZ Pad

WW-6B (04/15)

18)

CASING AND TUBING PROGRAM

TYPE	<u>Size</u> (in)	<u>New</u> or <u>Used</u>	Grade	<u>Weight per ft.</u> (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100'	100'	CTS
Fresh Water	13 3/8"	New	H-40	48#	357'	357'	355 sx/CTS
Coal	9 5/8"	New	J-55	36#	2668'	2668'	1042 sx/CTS
Intermediate	7"	New	J-55	20#	If Needed	If Needed	If Needed/As Needed
Production	5 1/2"	New	HCP-110	20#	14770'	14770'	Land 762ss tol 1930ss/1007 inside income
Tubing	2 3/8'	New	HCP-110	4.7#	Approx. 7065'	Approx. 7065'	
Liners							

TYPE	<u>Size (in)</u>	<u>Wellbore</u> Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	<u>Burst Pressure</u> (psi)	Anticipated Max. Internal Pressure (psi)	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	20"	30"	0.25	2120	81 ·	Class A	
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	Approx. 8193'	Approx. 8193'		
Liners							

PACKERS

Kind:	RECEIVED Office of Oil and Gas			
Sizes:	Onice of On and			
Depths Set:	SEP 1 2 2017			
1	WV Department of			

Environmental Protection

WW-6B (10/14) API NO. 47-____-OPERATOR WELL NO. Blatt WTZ 5H Well Pad Name: Blatt WTZ Pad

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.)

MH 5-17-17

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 ***

25) Proposed borehole conditioning procedures:

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

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*Note: Attach additional sheets as needed.



2612020127

Blath WTZ 5H

API	Operator	Status	Latitude Long	gitude	Vertical TD	Producing Formation	Vertical TD Producing Formation Producing Zones Not Perforated	Men On The Ground	
103-70323		Unknown	39.71325	39.71325 -80.44782	Unknown	Unknown		where wells were "supposed to be" and nothing was located	_
103-70325	Orohan Well	Unknown	39.717745	-80.432989	39.717745 -80.432989 Unknown	Unknown		where wells were "supposed to be" and nothing was located	
									_
103-70326	103-70326 Philadelphia Oil Co.	Unknown	39.684344 -80.4	-80.439739	139739 Unknown	Unknown		where wells were "supposed to be" and nothing was located	-
}									

09/29/2017

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WV Department of Environmental Protection

	Product Name	Product Use	Chemical Name	CAS Number
Surface	S001	accelerator	calcium chloride	10043-52-4
Intermediate Surface	5001	accelerator	calcium chloride	10043-52-4
<u>~</u>	D080	dispersant	sodium polynaphthalene sulfonate	9008-63-3
s of	D801	retarder	aromatic polymer derivative	propriatary
Kick Off Plug	D047	antifoam	polypropylene glycol	25322-69-4
	D167	fluid loss	aliphatic amide polymer	propriatary
	D154	extender	non-crystalline silica	7631-86-9
Production-Lead	D400	gas migration	boric acid	10043-35-3
			polypropylene glycol	25322-69-4
	D046	antifoam	fullers earth (attapulgite)	8031-18-3
			chrystalline silica	14808-60-7
ction	D201	retarder	metal oxide	propriatary
onpo			sulphonated synthetic polymer	propriatary
Pro	D202	dispersant	formaldehyde (impurity)	propriatary
			polypropylene glycol	25322-69-4
	D046	antifoam	fullers earth (attapulgite)	8031-18-3
	D167	fluid loss	aliphatic amide polymer	propriatary
all			sodium polynaphthalene sulfonate	9008-63-3
1-L	D065	dispersant	sodium sulfate	7757-82-6
Production-Tall			chrystalline silica	14808-60-7
npo	D201	retarder	metal oxide	propriatary
Pre	D153	anti-settling	chrystalline silica	14808-60-7

Schlumberger Cement Additives

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DMH 5-17-17

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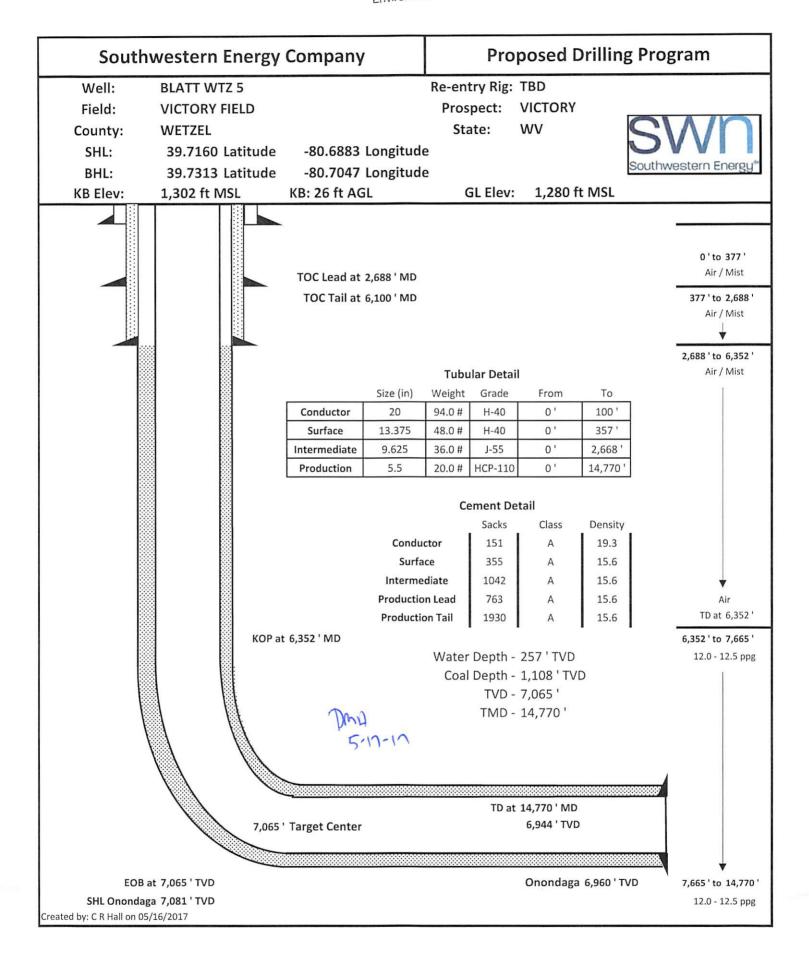
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WW O

(4/16)	JUN 1 5 2017 AI	PI Number 47 - 103
	WV Department of STATE OF WEST VII Environmental Protofer ARTMENT OF ENVIRONMEN OFFICE OF OIL AN	NTAL PROTECTION
	FLUIDS/ CUTTINGS DISPOSAL & R	ECLAMATION PLAN
Operator Name	me_SWN Production Company, LLC	OP Code 494512924
Watershed (HU	HUC 10) Steener Fork of Lynn Camp Run Quad	rangle Wileyville
Do you anticip	cipate using more than 5,000 bbls of water to complete the pro	posed well work? Yes 🖌 No 📃
Will a pit be u	e used? Yes No 🖌	
If so,	o, please describe anticipated pit waste: closed loop system in p	place at this time- cuttings will be taken to a permitted landfill
Will a	ll a synthetic liner be used in the pit? Yes No 📝	If so, what ml.?
Propo	posed Disposal Method For Treated Pit Wastes:	Datt
	 Land Application Underground Injection (UIC Permit Number_ Reuse (at API Number_ at next anticipated well, API # Off Site Disposal (Supply form WW-9 for disp Other (Explain_ flow back fluids will be put in steel 	vill be included with the WR-34/DDMR &/or permit addendum
Will closed loo	loop system be used? If so, describe: yes	
Drilling mediu	dium anticipated for this well (vertical and horizontal)? Air, fr	eshwater, oil based, etc.
-If oil	oil based, what type? Synthetic, petroleum, etc. synthetic oil ba	se
Additives to be	be used in drilling medium? see attached sheets	
Drill cuttings of	s disposal method? Leave in pit, landfill, removed offsite, etc	landfill
-If lef	left in pit and plan to solidify what medium will be used? (cer	nent, lime, sawdust)
-Land	andfill or offsite name/permit number? meadow SWF-1032, SS grading SWF-4902	Northwestern SWF-1025, Short Creek 1034/WV0109517/CID28726, Carbon Limeston 28726-CID28726

Arden LandIIII 10072, American 02-12954, Country Wide 38390/CID38390, Pine Grove 13688 Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

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

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

Company Official Signature	
Company Official (Typed Name) Dee Southall	
Company Official Title_ Regulatory Supervisor	
Subscribed and sworn before me this 11th day of May Buttony R Woody My commission expires 1171	2017 OFFICIAL SEAL Notary Public: State of West Virginia BICK ITANY R WOODDY 3302 Old Elkins Road Euckhannon, WV 26201 My commission expires November 27, 2022 09/29/2017

Operator's Well No.	Blatt WTZ 5H
Operator's well No.	Blatt TTE St.

SWN Production C	ompany, LLC				
Fertilizer type <u>10</u> Fertilizer amount	^{est min. 2} Tons/acre or to 6 20-20 600	and the second	Prevegetation pH RECEIVED Office of Oil and Gas JUN 1 5 2017		
Mulch Hay/Stra	emporary	Tons/acre Seed Mixtures	WV Depar Environmenta	tment of I Protection	
Seed Type Ibs/acre **See Attachment			Seed Type	lbs/acre	
Attach:					

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by:
Comments:
Title: oil and gas inspector Date: 5-17-17
Field Reviewed? () Yes () No

Drilling Mediums

Synthetic Oil Brine Barite Calcium Chloride Lime Organophilic Bentonite Primary and Secondary Emulsifiers Gilsonite Calcium Carbonate Friction Reducers

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JUN 1 5 2017

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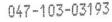
WV Department of Environmental Protection

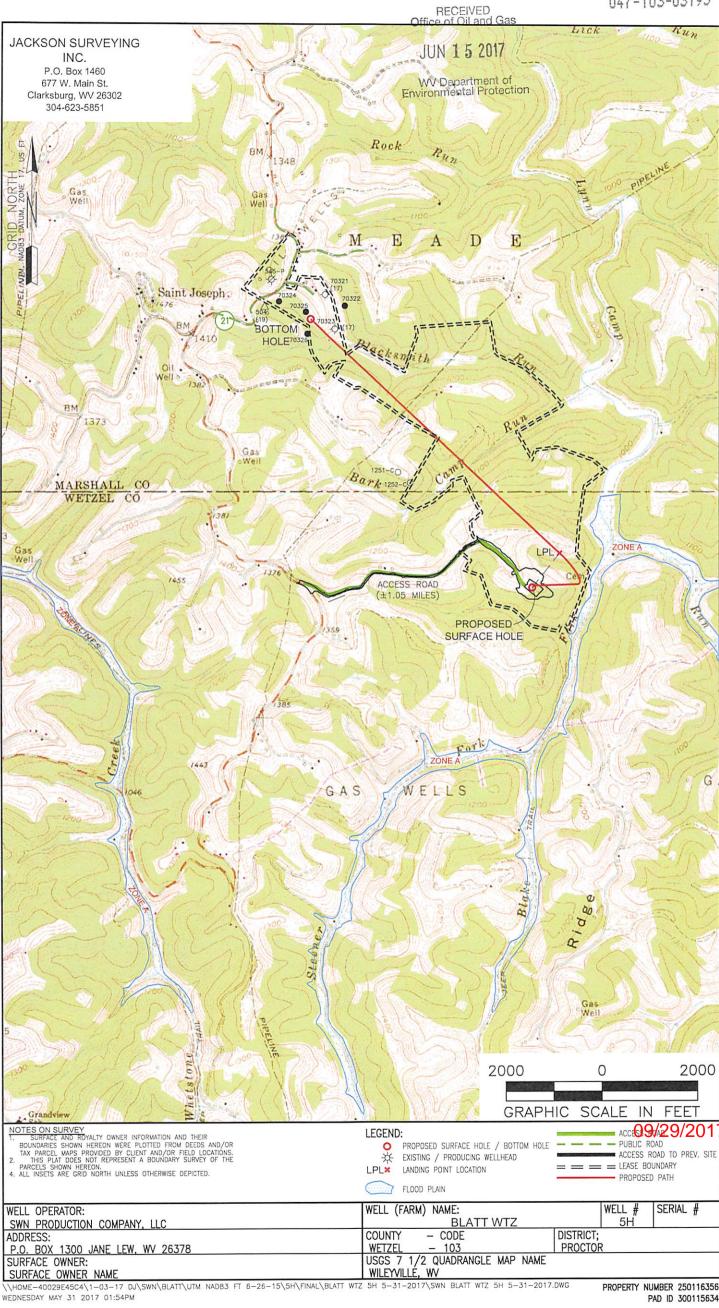
SWD Seeding Specification							
To Order Se	ed contact Lyndsi Eddy Flippo office 570-99	96-4271 cell 501-26	9-5451 lyndsi_eddy@swn.com (please allow 7 to 10 o	lays for deliv	very)		
NON-ORGANIC PROPERTIES			ORGANIC PROPERTIES	a horas at			
Seed Mixture: ROW Mix	SWN Supplied		Seed Mixture: SWN Production Organic	Mix 9	SWN Supplied		
Drchardgrass	40%		Organic Timothy	50%			
Timothy	15%		Organic Red or White Clover	50%			
Annual Ryegrass	15%		OR				
Brown Top Millet	5%		Organic Perennial Ryegrass	50%			
Red Top	5%		Organic Red or White Clover	50%			
Medium Red Clover White Clover		umes are d at 5x normal	Apply @ 100lbs per acre April 16th- Oct. 14th		Apply @ 200lbs per acre		
Birdsfoot Trefoil	5% r	ate	April 1801- Oct. 1401		Oct. 15th- April 15th		
Rough Bluegrass	5%		Organic Fertilizer @ 200lbs per Acre		Pelletized Lime @ 2 Tons per Acre		
Apply @ 100lbs per acre April 16th- Oct. 14th	Apply @ 200lbs per Oct. 15th- April 15th 50lbs per acre of Winter	PLUS	WETLANDS (delineated as jurisdict	ional w	etlands)		
SOIL AMENDMENTS			Seed Mixture: Wetland Mix		V Supplied		
10-20-20 Fertilizer	*Apply @ 500lbs pe	r Acre	VA Wild Ryegrass	20%	supplied		
Pelletized Lime	Apply @ 2 Tons pe	and the second s	Annual Ryegrass	20%			
	*unless otherwise dictated by		Fowl Bluegrass	20%			
Seeding Calculation Information:			Cosmos 'Sensation'	10%	RECEIVED		
1452' of 30' ROW/LOD is One Acre			Redtop	5%	Office of Oil and Gas		
871' of 50' ROW/LOD is One Acre			Golden Tickseed	5%	JUN 1 5 2017		
622' of 70' ROW/LOD is One Acre			Maryland Senna	5%	JUN 1 0 2017		
			Showy Tickseed	5%	WV Department of Environmental Protection		
Synopsis:			Fox Sedge	2.5%	Environmental Protection		
Every 622 linear feet in a 70' ROW/LOD,	you should be using (2) 50lb bags of	f seed, (4) 50lb	Soft Rush	2.5%			
bags of fertilizer and (80) 50lb bags of Li			Woolgrass	2.5%			
Wheat/ac).			Swamp Verbena	2.5%			
Special Considerations: Landowner Special Considerations including CREP program participants require additional			Apply @ 25lbs per acre April 16th- Oct. 14th		Apply @ 50lbs per acre Oct. 15th- April 15th		
guidance that is not given here. Discuss the beginning of the project to allow time for sp		at the	NO FERTILIZER OR LIME INSIDE WETLAND LIMITS				

MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN

17	roduction 79 Innova	Company, LLC ation Drive t Virginia 26378	RECEIVED Office of Oil and Gas	1 5 2017	WV Department of Environmental Protection
API NO WELL N Wil Pro Wetzel COL	RE Office o	JUN 15	Environm		
- Hor	Date: _ SWN Pro	5/11/2017 oduction Co., LLC			
Approved by: Title: 0:1+6 <r td="" traffector<=""><td>Date: _</td><td>5-17-17</td><td></td><td></td><td></td></r>	Date: _	5-17-17			
Approved by: [Title:	Date: _				

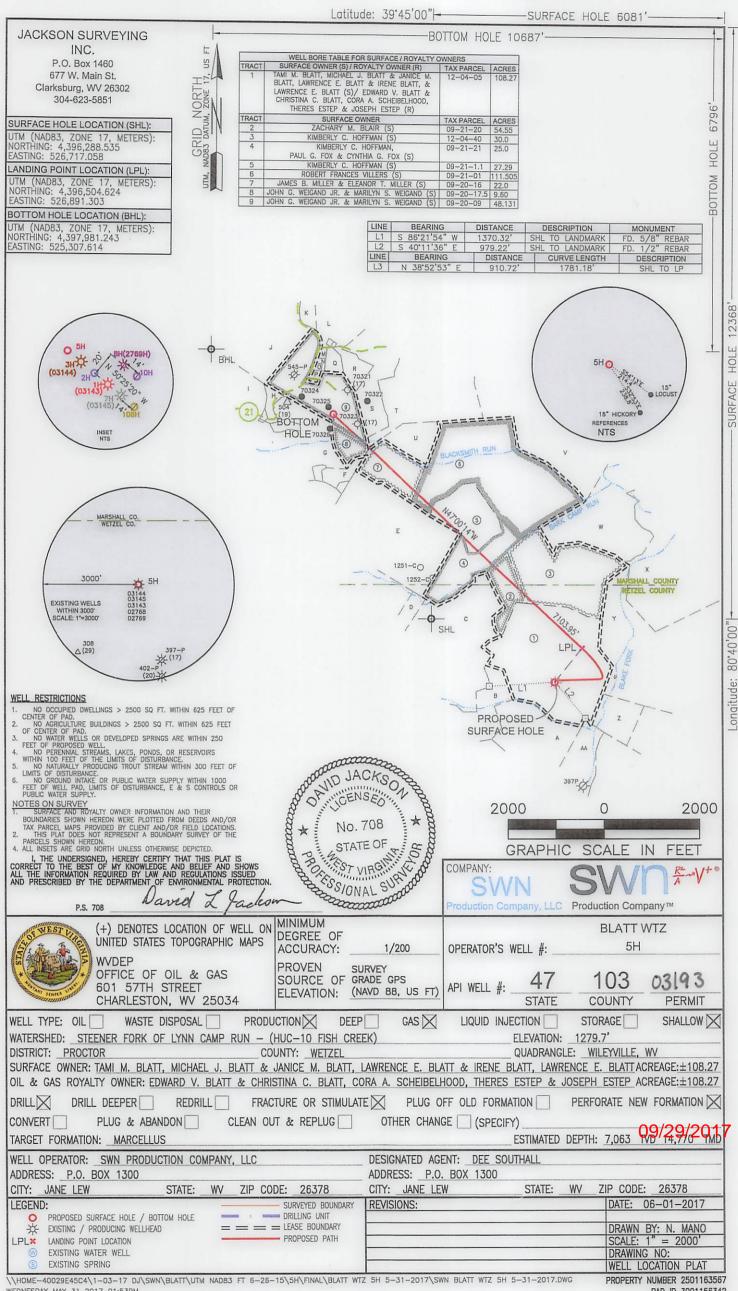
SWN PRODUCTION COMPANY, LLC





5-31-201 BLATT WTZ 5H 5-31-2017.DWG 5H NSWN

PROPERTY NUMBER 2501163567 PAD ID 3001156342



WEDNESDAY MAY 31 2017 01:53PM

PAD ID 3001156342

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

	ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	ANTHONY C. BLATT & REBECCA F. BLATT	12-04-15	38.0
В	ANTHONY C. BLATT & REBECCA F. BLATT	12-04-14	37.0
С	ANTHONY BLATT, ET AL	12-04-04	106.26
D	BLATT FAMILY IRREVOCABLE TRUST, KEVIN BLATT TRUSTEE, TAMI M. BLATT AND MICHEAL J. BLATT & JANICE M. BLATT	12-04-03	16.83
E	THOMAS JOHN FOX	09-22-10	91.21
F	MICHAEL A. URBANEK	09-20-17.2	5.000
G	COLETTA A. KLUG REVOCABLE TRUST	09-20-17	
Н	DAVID E. STINE & MARY MARGARET STINE	09-20-21	3.25
1	EILEEN J. KLUG, ET AL	09-20-22	70.2398
J	SONNY M. TAGG & LINDA L. TAGG	09-20-07	72.828
К	DAVID PAUL FROHNAPFEL	09-20-07.1	4.930
L	PATRICK A. FROHNAPFEL & LISA A. FROHNAPFEL	09-20-11	139.88
М	JAMES MILLER & HELEN MILLER	09-20-9.5	
Ν	JAMES MILLER & HELEN MILLER	09-20-9.3	0.804
0	JAMES MILLER & HELEN MILLER	09-20-10	0.5
Ρ	HELEN B. SHUTLER	09-20-9.4	0.78
Q	JAMES MILLER & HELEN MILLER	09-20-9.6	2.919
R	ELEANOR T. MILLER & JAMES B. MILLER	09-20-08	6.50
S	DAVID PAUL WEIGAND	09-20-12.1	41.286
Т	MARY JOSEPHINE NICE	09-20-13	85.5
U	DAVID PAUL WEIGAND	09-20-15	16.24
V	ROSELAND PROPERTY, LLC	09-21-02	222.4
W	ZACHARY M. BLAIR	09-21-18&19	70.75
X	MASON DIXON FARMS, LCC	09-21-12	69.92
Y	RHODA C. SIVERT & CLEO M. SIVERT	12-04-06	101.3
Ζ	RHODA C. SIVERT & CLEO M. SIVERT	12-04-16	16.75
AA	JOSEPH SHIBEN ESTATE & MINNIE SHIBEN ESTATE	12-04-25	38.75

				09/29/201
REVISIONS:	COMPANY:	SWN Production Company, LLC	SW/ Production Com	pany™
	OPERATOR'S WELL #:	BLATT WTZ 5H		DATE: 06-01-2017 DRAWN BY: N. MANO
	DISTRICT: PROCTOR	COUNTY: WETZEL	STATE: WV	SCALE: N/A DRAWING NO: WELL LOCATION PLAT 2

\\HOME-40029E45C4\1-03-17 DJ\SWN\BLATT\UTM NAD83 FT 6-26-15\5H\FINAL\BLATT WTZ 5H 5-31-2017\SWN BLATT WTZ 5H 5-31-2017.DWG WEDNESDAY MAY 31 2017 01:56PM

WW-6A1 (5/13) Operator's Well No. Lawrence Blatt WTZ 5H

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

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

- 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
		,,		

See Attached

RECEIVED Office of Oil and Gas

JUN 1 5 2017

WV Department of Environmental Protection

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

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

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

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

Well Operator:	r: SWN Production Company, LLC.				
By:	a re				
Its:	Caleb Weaver - Landman				

Page 1 of _____

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

Lawrence Blatt 5H

Marshall and Wetzel Counties, West Virginia

Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG	Surface Owner	Book/Page Must describe The Parcel	Leased
1	12-4-5	724462-001	Edward V. Blatt and Christina C. Blatt, husband and	The Manufacturers Light and Heat Company	12.50%	45A/310	Tami M. Blatt; Michael J. Blatt and Janice M.	428/844	108.270000
			wife; Cora A. Scheibelhood, widow. Theres Estep and				Blatt, husband and wife; Lawrence E. Blatt and		
			Joseph Estep, her husband				Irene Blatt, husband and wife; Lawrence E. Blatt, individually		
			The Manufacture as light & Hast Company	Columbia Con Transmission Corporation		202/104	Blatt, Individually		
			The Manufacturers Light & Heat Company Columbia Gas Transmission Corporation	Columbia Gas Transmission Corporation Columbia Natural Resources, LLC		263/164 84A/129			
			Columbia Gas Transmission Corporation Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		402/446			
			Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.		402/446 90A/242			
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540			
2	9-21-20	724650-000	Joseph J. Wagner, as Attorney in Fact for William Ester		14.00%	47A/124	Zachary M. Blair	617/284	54.550000
2	9-21-20	724030-000	(Recorded in Ohio County, West Virginia in Book 441,	The Manufacturers Light and Heat company	14.00%	4///124		017/204	34.330000
			Page 1); C.W. Estep and Emma Estep, his wife; J.R.						
			Estep and Catherine Estep, his wife; Clara T. Klug and				RECEIVED		
			N.J. Klug, her husband; Josephine Shutler, widow				Office of Oil an	d Gas	
								047	
			The Manufacturers Light & Heat Company	Columbia Gas Transmission Corporation		422/204	JUN 152	017	
			Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281			
			Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		650/63	WV Departme	ent of	
			Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.		663/592	Environmental P	Olection	
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110			
3	12-4-40	724650-000	Joseph J. Wagner, as Attorney in Fact for William Ester	The Manufacturers Light and Heat Company	14.00%	47A/124	Kimberly C. Hoffman	420/899	30.000000
			(Recorded in Ohio County, West Virginia in Book 441,	с , , ,					
			Page 1); C.W. Estep and Emma Estep, his wife; J.R.						
			Estep and Catherine Estep, his wife; Clara T. Klug and						
			N.J. Klug, her husband; Josephine Shutler, widow						
			The Manufacturers Light & Heat Company	Columbia Gas Transmission Corporation		263/164			
			Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		84A/129			
			Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		402/446			
			Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.		90A/242			
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540			
4	9-21-21	724474-000	B.G. Weigand A.K.A. B.G. Wiegand, single and Clem	The Manufacturers Light and Heat Company	12.50%	353/137	Kimberly C. Hoffman	611/563	25.000000
			Herrick, single						
			The Manufacturers Light & Heat Company	Columbia Gas Transmission Corporation		422/204	Paul G. Fox and Cynthia G. Fox, husband and	577/560	
							wife, JTROS		Contraction and the
			Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281			
			Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		650/63			CARLES AND
			Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.		663/592			
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110			

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

047-103-03193

Lawrence Blatt 5H

Marshall and Wetzel Counties, West Virginia

Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG	Surface Owner	Book/Page Must describe The Parcel	Leased
5	9-21-1.1	726579-001	Kimberly B. Hoffman, f/k/a Kimberly C. Hoffman, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	14.00%	695/227	Kimberly C. Hoffman	611/563	27.290000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110			
5	9-21-1.1	726579-002	Hayhurst Company, a Florida Partnership Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	17.00%	708/60 33/110			27.290000
6	9-21-1	724979-001	Hayhurst Company, a Florida Partnership Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	16.00%	674/121 33/110	Robert Frances Villers	652/105 845/279	111.505000
6	9-21-1	724979-002	Robert Francis Villers and April L. Villers, his wife Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	676/87 33/110			111.505000
7	9-20-16	725553-001	James B. Miller, a/k/a James Miller, a married man dealing in his sole and separate property Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C.	15.00%	683/51	James B. Miller Eleanor T. Miller	241/27 WB71/211	22.000000
7	9-20-16	725553-002	Eleanor T. Miller, a/k/a Eleanor Miller, a single woman	1 11	15.00%	683/52			22.000000
7	9-20-16	745533-002	Chesapeake Appalachia, L.L.C. Joseph A. Wayman, a married man dealing in his sole and separate property	SWN Production Company, LLC.	17.00%	894/419			22.000000
7	9-20-16	745533-001	Frederick William Wayman, a widower	SWN Production Company, L.L.C.	17.00%	894/421			22.000000
7	9-20-16	745533-003	Mary Frances Pierce and Jeffrey S. Pierce, her husband	SWN Production Company, L.L.C.	17.00%	894/443			22.000000
7	9-20-16	745533-004	Susan J. Modell and Robert J. Modell, her husband	SWN Production Company, L.L.C.	17.00%	894/445			22.000000
8	9-20-17.5	726024-000	Coletta A. Klug Revocable Living Trust, by Coletta A. Klug, acting as Trustee Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	691/112 33/110	John G. Weigand, Jr. and Marilyn S. Weigand, his wife	918/627	9.600000
9	9-20-9	725706-000	David Paul Weigand, a single man	Chesapeake Appalachia, L.L.C.	15.00%	685/364	John G. Weigand, Jr. and Marilyn S. Weigand, his wife	918/627	48.131000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110			

RECEIVED Office of Oil and Gas

JUN 1 5 2017

WV Department of Environmental Protection

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

Date of Notice Certification:

Notice has been given:

API No. 47-		
Operator's Well N	0. Blatt WTZ 5H	
Well Pad Name:	Blatt WTZ Pad	

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:	WV		Easting:	526717.058	
County:	103- Wetzel	UTM NAD 83	Northing:	4396288.535	
District:	Proctor	Public Road Acce	Public Road Access:		
Quadrangle:	Wileyville	Generally used farm name:		Blatt	
Watershed:	Steener Fork of Lynn Camp Run				

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	OOG OFFICE USE ONLY
□ 1. NOTICE OF SEISMIC ACTIVITY or □ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED
□ 2. NOTICE OF ENTRY FOR PLAT SURVEY or □ NO PLAT SURVEY WAS CONDUCTED	□ RECEIVED
☑ 3. NOTICE OF INTENT TO DRILL OF □ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OF	RECEIVED/ NOT REQUIRED
WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
4. NOTICE OF PLANNED OPERATION	RECEIVED
5. PUBLIC NOTICE	RECEIVED
6. NOTICE OF APPLICATION	C RECEIVED

Required Attachments:

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

JUN 1 5 2017

09/29/2017

WV Department of Environmental Protection

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047-103-03193
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Certification of Notice is hereby given:

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

Well Operator:	SWN Production Co., LLC		Address:	P.O. Box 1300
By:	Dee Southal			Jane Lew, WV 26378
Its:	Regulatory Supervisor	5	Facsimile:	
Telephone:	304-884-1614	- And	Email:	Dee_Southall@swn.com
	EST NOTARY SEMFICIAL SEAL Notary Public, State of West Virginia BRITTANY R WOODY 3302 Old Elkins Road Buckhannon, WV 26201 My commission expires November 27, 2022	Bitt	ibed and swo tany R mmission Ex	rn before me this <u>11</u> th day of <u>May 201</u> . Notary Public pires <u>H</u> R

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 <u>depprivacyofficer@wv.gov</u>.

RECEIVED Office of Oil and Gas

JUN 1 5 2017

WV Department of Environmental Protection 09/29/2017

(9-13) U47		47-103-03193	OPERATOR WELL NO. Blatt WTZ 5H Well Pad Name: Blatt WTZ Pad	
			STATE OF WEST VII	
	DEDAD	TMENT OF ENVIR	NAMA AN AN AND A AND	CTION, OFFICE OF OIL AND GAS
	DEIAN	TWIENT OF ENVIR	NOTICE OF APPLIC	
			MOTICE OF ATTER.	
Not	ice Time Requiremen	at: notice shall be provi	ded no later than the filing	date of permit application.
	e of Notice: 10/14/17 ice of:	Date Permit Applica	tion Filed:	
\checkmark	PERMIT FOR ANY	CERTIFI	CATE OF APPROVAL FO	DR THE
	WELL WORK	CONSTR	RUCTION OF AN IMPOU	NDMENT OR PIT
Deli	ivery method pursual	nt to West Virginia Co	ode § 22-6A-10(b)	
	PERSONAL [SERVICE	REGISTERED MAIL		LIVERY THAT REQUIRES A
Purs	suant to W. Va. Code §	22-6A-10(b) no later that	in the filing date of the appli	cation, the applicant for a permit for any well work or for a

WW-6A

API NO. 47-

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)	COAL OWNER OR LESSEE
Name: Blatt Family Irr. Tr Kevin Blatt, Trustee	Name: CNX Center %Leatherwood
Address: 760 Northeast Avenue	Address: 1000 Consol Energy Drive
Tallmadge, OH 44278	Canonsburg, PA 15317
Name: Tami M. Blatt	□ COAL OPERATOR
Address: 1298 East Avenue	Name:
Tallmadge, OH 44278	Address:
SURFACE OWNER(s) (Road and/or Other Disturba	
Name:	☑ SURFACE OWNER OF WATER WELL
Address:	AND/OR WATER PURVEYOR(s)
	Name: None
Name:	Address:
Address:	
	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
□ SURFACE OWNER(s) (Impoundments or Pits)	Name: Columbia Gas Transmission, LLC Attn: John Shelton
Name:	Address: 1700 MacCorkle Ave SE
Address:	Charleston, WV 25325
	RECEIVEBlease attach additional forms if necessary

JUN 1 5 2017



WV Department of Environmental Protection

WW-6A (9-13) API NO. 47-103 -OPERATOR WELL NO. Blatt WTZ 5H Well Pad Name:

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF APPLICATION</u>

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

	e of Notice: ce of:	_ Date Permit Applicati	on Filed:
7	PERMIT FOR AN WELL WORK		ATE OF APPROVAL FOR THE UCTION OF AN IMPOUNDMENT OR PIT
Deli	very method pursu	ant to West Virginia Coo	de § 22-6A-10(b)
	PERSONAL SERVICE	REGISTERED MAIL	METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION
certi	ficate of approval for	the construction of an impo	the filing date of the application, the applicant for a permit for any well work or for a bundment 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:	RECEIVED Office of Oil and Gas
☑ SURFACE OWNER(s)	COAL OWNER OR LESSEE	
Name: Lawrence & Irene Blatt	Name:	JUN 1 5 2017
Address: 760 Northeast AVe	Address:	
Tallmadge, OH 44278		WV Department of Environmental Protection
Name: Michael & Janice Blatt	COAL OPERATOR	Environmental Protection
Address: 820 South Munroe Road	Name:	
Tallmadge, OH 44278	Address:	_
USURFACE OWNER(s) (Road and/or Other Disturbance)		
Name:	SURFACE OWNER OF WATER WELL	
Address:	AND/OR WATER PURVEYOR(s)	
	Name:	
Name:	Address:	
Address:		-
	OPERATOR OF ANY NATURAL GAS STOR	AGE FIELD
URFACE OWNER(s) (Impoundments or Pits)	Name:	
Name:	Address:	
Address:		-

*Please attach additional forms if necessary

WW-6A (8-13) 047-103-03193

JUN 1 5 2017

OPERATOR WELL NO. Blatt WTZ 5H Well Pad Name: Blatt WTZ Pad

API NO. 47-

WV Department of Environmental Protection

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 <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

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

WW-6A (8-13) API NO. 47-____ OPERATOR WELL NO. Blatt WTZ 5H Well Pad Name: Blatt WTZ Pad

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450

JUN 1 5 2017 WV Department of Environmental Protection

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

API NO. 47-____-OPERATOR WELL NO. Blatt WTZ 5H Well Pad Name: Blatt WTZ Pad

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-

<u>Permits/Pages/default.aspx</u> 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.

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WV Department of Environmental Protection



WW-6A	API NO. 47
(8-13)	OPERATOR WELL NO. Blatt WTZ 5H
	Well Pad Name: Blatt WTZ Pad
Notice is hereby given by:	
Well Operator: SWN Production Co., LLC	Address: P.O. Box 1300
Telephone: 304-884-1614	Jane Lew, WV 26378
Email: Dee_Southall@swn.com	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 <u>depprivacyofficer@wv.gov</u>.

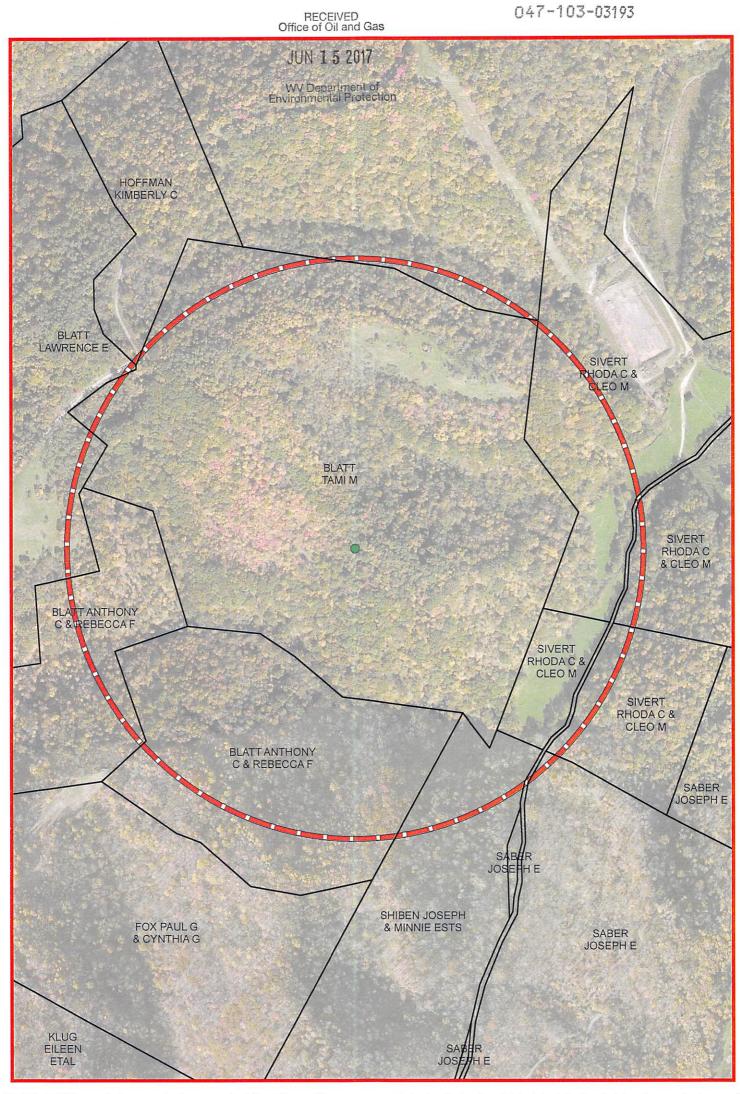
Notary P. dlic. State of West Virginia BD: TTANY R WOODY 3002 Old Elkins Road Buckhannon, WV 26201 My commission expires November 27, 2022 Subscribed and sworn before me this day of day of dot notary Public

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JUN 1 5 2017

WV Department of Environmental Protection





The intent of this map is for general reference only. Information on this map was created using the best available data at the time but is not guaranteed accurate. 09/29/2017

					05/25/2011
	в Л — —	Oprim 💦 STREAM	Well Pad:		County:
Water Purveyor	мар	NO MLI SPERG	Blatt WTZ Pad		WETZEL
Map by: speart	Date: 5/11/2017		Blatt WTZ Cod	ordinates:	
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STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF INTENT TO DRILL</u>

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.
 RECEIVED

 Date of Notice:
 05/31/2017
 Date Permit Application Filed:
 Office of Oil and Gas

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

JUN 1 5 2017

WV Department of Environmental Protection

HAND		CERTIFI
	DELIVERY	RETURN

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

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	LITM NIAD 92	Easting:	526,717.058	
County:	Wetzel	UTM NAD 83	Northing:	4,396,288.535	
District:	Proctor	Public Road Acc	cess:	Bark Camp Run	
Quadrangle:	Wileyville	Generally used f	farm name:	Blatt WTZ	
Watershed:	Steener fork of Lynn Camp Run - (HUC-10 Fish Creek)				

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 <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Notice is hereby given by:

SWN Production Company, LLC	Authorized Representative:	Steve Teel	
PO Box 1300, 179 Innovation Drive	Address:	PO Box 1300, 179 Innovation Drive	
Jane Lew, WV 26378		Jane Lew, WV 26378	
832-540-1136	Telephone:	832-540-1136	
Steve_Teel@swn.com	Email:	Steve_Teel@swn.com	
304-884-1691 Facsimile:		304-884-1691	
	PO Box 1300, 179 Innovation Drive Jane Lew, WV 26378 832-540-1136 Steve_Teel@swn.com	PO Box 1300, 179 Innovation Drive Address: Jane Lew, WV 26378 Telephone: 832-540-1136 Telephone: Steve_Teel@swn.com Email:	

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 <u>depprivacyofficer@wv.gov</u>.

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF INTENT TO DRILL</u>

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.

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

HAND	CERTIFIED MAIL	
DELIVERY	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	Name:	
Address: 820 South Munroe Road	Address:	
Tallmadge, OH 44278	 	

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:	526,717.058	
County:	Wetzel	UTMINAD 85	Northing:	4,396,288.535	
District:	Proctor	Public Road Ac	cess:	Bark Camp Run	
Quadrangle:	Wileyville	Generally used t	farm name:	Blatt WTZ	
Watershed:	Steener Fork of Lynn Camp Run - (HUC-10 Fish Creek)	2022			

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 <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Notice is hereby given by:

Well Operator:	SWN Production Company, LLC	Authorized Representative:	Steve Teel	
Address:	PO Box 1300, 179 Innovation Drive	Address:	PO Box 1300, 179 Innovation Drive	
	Jane Lew, WV 26378		Jane Lew, WV 26378	
Telephone:	832-540-1136	Telephone:	832-540-1136	
Email:	Steve_Teel@swn.com	Email:	Steve_Teel@swn.com	
Facsimile:	304-884-1691	Facsimile:	304-884-1691	

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 <u>depprivacyofficer@wv.gov</u>.

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Environmental Protection

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF INTENT TO DRILL</u>

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: _________ Date Permit Application Filed: ________ RECEIVED
Office of Oil and Gas

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

HAND	CERTIFIED MAIL
DELIVERY	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: Tami M. Blatt	Name:
Address: 1298 East Avenue	Address:
Tallmadge, OH 44278	T
	T -

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:	526,717.058	
County:	Wetzel	UTIVI INAD 85	Northing:	4,396,288.535	
District:	Proctor	Public Road Acc	cess:	Bark Camp Run	
Quadrangle:	Wileyville	Generally used t	farm name:	Blatt WTZ	
Watershed:	Steener Fork of Lynn Camp Run - (HUC-10 Fish Creek)	70			

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 <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Notice is hereby given by:

SWN Production Company, LLC	Authorized Representative:	Steve Teel
PO Box 1300, 179 Innovation Drive	Address:	PO Box 1300, 179 Innovation Drive
Jane Lew, WV 26378		Jane Lew, WV 26378
832-540-1136	Telephone:	832-540-1136
Steve_Teel@swn.com	Email:	Steve_Teel@swn.com
304-884-1691	Facsimile:	304-884-1691
	PO Box 1300, 179 Innovation Drive Jane Lew, WV 26378 832-540-1136 Steve_Teel@swn.com	PO Box 1300, 179 Innovation Drive Address: Jane Lew, WV 26378 Telephone: 832-540-1136 Telephone: Steve_Teel@swn.com Email:

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WW-6A5 (1/12)

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: 05/31/2017 Date Permit Application Filed:

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: Blatt Family Irrevocable Trust - Kevin L. Blatt, Trustee	/	Name:
Address: 760 Northeast Avenue		Address:
Tallmadge, OH 44278	_ /	

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:	West Virginia	
County:	Wetzel	
District:	Proctor	
Quadrangle:	Willeyville	
Watershed:	Steener Fork of Lynn Camp Run - (HUC-10 Fish Creek)	

Easting:	526,717.058		
NAD 83	Northing:	4,396,288.535	
c Road Access: rally used farm name:		Bark Camp Run	
		Blatt WTZ	

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 <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Well Operator:	SWN Production Company, LLC	Address:	PO Box 1300, 179 Innovation Drive
Telephone:	832-540-1136		Jane Lew, WV 26378
Email:	Steve_Teel@swn.com	Facsimile:	304-884-1691

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RECEIVED Office of Oil and Gas JUN 1 5 2017 WV Department of Environmental Protection

09/29/2017

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF PLANNED OPERATION</u>

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

 Date of Notice:
 05/31/2017

 Date Permit Application Filed:
 05/31/2017

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

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:	West Virginia	UTM NAD 83	Easting:	526,717.058	
County:	Wetzel	UTM NAD 85	Northing:	4,396,288.535	
District:	Proctor	Public Road Ac	cess:	Bark Camp Run	
Quadrangle:	Willeyville	Generally used	farm name:	Blatt WTZ	
Watershed:	Steener Fork of Lynn Camp Run - (HUC-10 Fish Creek)				

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 <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Well Operator:	SWN Production Company, LLC	Address:	PO Box 1300, 179 Innovation Drive	
Telephone:	832-540-1136		Jane Lew, WV 26378	
Email:	Steve_Teel@swn.com	Facsimile:	304-884-1691	

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RECEIVED Office of Oil and Gas

JUN 1 5 2017

WV Department of Environmental Protection



WW-6A5 (1/12) 047-103-03193

Operator Well No. Blatt WTZ 5H

JUN 1 5 2017

WV Department of Environmental Protection

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION me Requirement: notice shall be provided no later than the filing data of eventions. I'vertices of Oil and Gas

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

 Date of Notice:
 05/31/2017

 Date Permit Application Filed:
 01/2017

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 t	ime of notice):	
Name: Tami M. Blatt	Name:	
Address: 1298 East Avenue	Address:	
Tallmadge, OH 44278		

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:	West Virginia	UTM NAD 83	Easting:	526,717.058	
County:	Wetzel	UTM NAD 83	Northing:	4,396,288.535	
District:	Proctor	Public Road Ac	cess:	Bark Camp Run	
Quadrangle:	Willeyville	Generally used t	farm name:	Blatt WTZ	
Watershed:	Steener Fork of Lynn Camp Run - (HUC-10 Fish Creek)				

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 <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Well Operator:	SWN Production Company, LLC	Address:	PO Box 1300, 179 Innovation Drive	
Telephone:	832-540-1136		Jane Lew, WV 26378	
Email:	Steve_Teel@swn.com	Facsimile:	304-884-1691	

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 <u>depprivacyofficer@wv.gov</u>.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Jim Justice Governor

Thomas J. Smith, P. E. Secretary of Transportation/ Commissioner of Highways

May 12, 2017

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 WTZ 5H 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.

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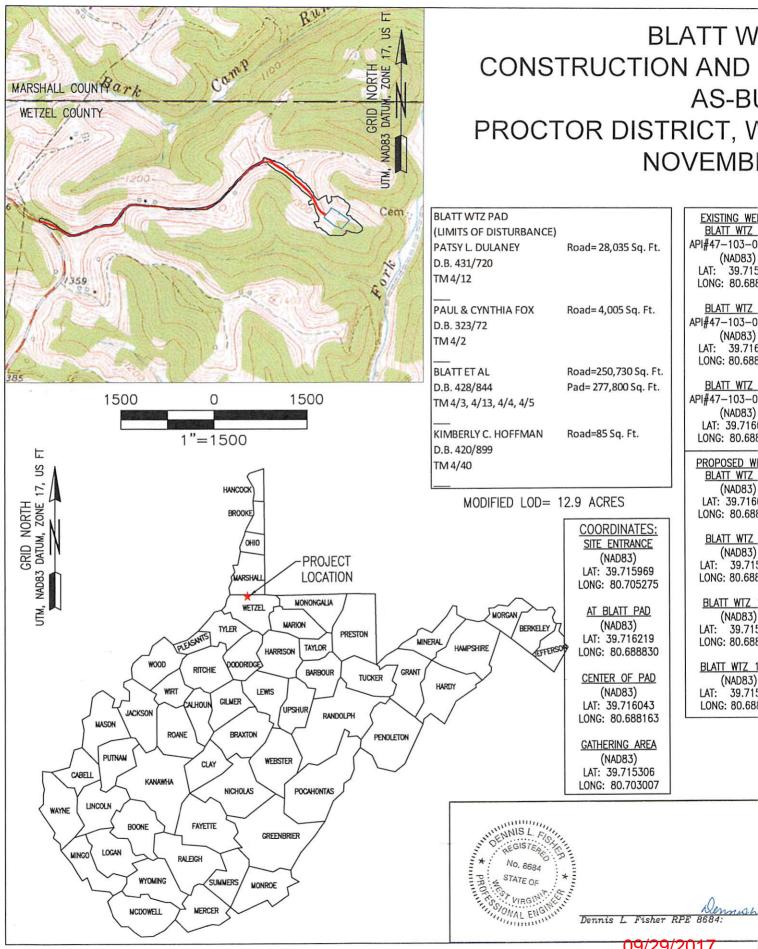
WV Department of Environmental Protection Very Truly Yours,

Dary K. Clayton

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

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

Product Name	Product Use	Chemical Name	CAS Numbe
F.C.C7244		Hydrogen Peroxide	
EC6734A (Champion Technologies)	Biocide	Acetic Acid	
		Peroxyacetic Acid	
GYPTRON T-390 (Champion	Scale Inhibitor	Methanol	
Technologies)	Scale Infibitor	Nonylphenol E thoxylate	
		Glutaraldehyde	
Bactron K-139 (Champion	Biocide	Quaternary Ammonium Compounds, Benzyl-C12	111-50-8
Technologies)	Diocide	16-Alkyldimethyl, Chlorides	68424-85-1 64-17-5 67-56-1 12 68424-85-1 67-56-1 Proprietary 107-19-7 Proprietary 7732-18-5 111-30-8 7601-54-9 107-21-1 7647-01-0 7727-54-0 7783-20-2 57-13-6 1310-58-3 Proprietary 6381-77-7 14808-60-7 14808-60-7 Proprietary 107-21-1 14808-60-7 Proprietary 107-21-1 14808-60-7 64742-47-8
		E thanol	64-17-5
Bactron K-219 (Champion Technologies)	Biocide	Methanol	
r echnologies)		Quaternary Ammonium Compounds, Benzyl-C12 16-Alkyldimethyl, Chlorides	68424-85-1
		Methanol	67-56-1
A 264 (Schlumberger)	C orros ion	Aliphatic Acids	Proprietary
	Inhibitor	Prop-2-yn-1-ol	
		Aliphatic Alcohols, Ethoxylated #1	P roprietary
Myacide GA 25 (Schlumberger)	Biocide	Water	
		Glutaral	
cale Inhibitor B317 (Schlumberger	Scale Inhibitor	Trisodium Ortho Phosphate	
, · · · · · · · · · · · · · · · · · · ·		E thane-1,2-diol	
H 215 (S chlumberger)	Hydrochloric Acid	Hydrochloric Acid	
J 218 (Schlumberger)	Breaker	Diammonium Peroxidisulphate	7727-54-0
EB-Clean* J 475 (Schlumberger)	Breaker	Diammonium Peroxidisulphate	
Water Gelling Agent J 580 (Schlumberger)	Gel	Carbohydrate Polymer	
Friction Reducer J 609W	Friction	Ammonium Sulfate	7783-20-2
(S chlumberger)	Reducer	Urea	57-13-6
Crosslinker J 610 (Schlumberger)	Crosslinker	P otassium Hydroxide	1310-58-3
		Aliphatic Polyol	Proprietary
ron Stabilizer L58 (Schlumberger)	Iron Stabilizer	S odium E rythorbate	
40/70-Mesh Sand S012 (Schlumberger)	Sand	C rystalline Silica	
Sand S100 (Schlumberger)	Sand	C rystalline S ilica	14808-60-7
EC6486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate	
SSA-2 (Halliburton)		E thylene Glycol	
	Sand	Crystalline Silica	14808-60-7
FR-76 (Halliburton)	Friction	Inorganic salt	64742-47-8
LCA-1 (Halliburton)	Reducer	invaloucated light perbledin distillate	
SP BREAKER (Halliburton)	Breaker	Hydrotreated light petroleum distillate	P roprietary
	Breaker	S odium P ersulfate	7775-27-1
HAI-150E (Halliburton)	C orros ion Inhibitor	Methanol Aliphatic Acids Prop-2-yn-1-ol	NA
Hydrochloric Acid 10-30%		Aliphatic Alcohols, Ethoxylated #1	
(Halliburton) G-36 Gelling Agent (Halliburton)	C_=	Hydrochloric Acid	7647-01-0
BC-140C (Halliburton)	Gel	Polysaccharide	9000-30-0
	Crosslinker		NA



TZ PAD RECLAMATION PLAN ЛLT /ETZEL COUNTY, WV ER 2015

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6H

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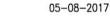
ENGINEERING ESTIMA	TE OF QUAN	TITIES
WELL SITE PAD DA	TA (DRILLING)	
CLEAN SUMP	1	EA
ACCESS ROAD DA	TA (DRILLING)	
REPAIR POTHOLES & GRADE	1	EA
STONE FOR ROAD	120	TON
WELL SITE PAD DATA	(RECLAMATION)	
REMOVE SUMP	2	EA
BREACH BERM	2	EA
DISCHARGE CHANNEL(S)		
RIPRAP	90	TON
OR		
EROSION CONTROL FABRIC	120	SY
SPREAD TOPSOIL	860	CY
SEED & MULCH	1,350	SY
INSTALL RSF	485	FT

047-103-03193

TS1. TITLE SHEET
EP2.1 EVACUATION ROUTE/ PREVAILING WIND
EP2.2 EVACUATION ROUTE/ PREVAILING WIND
AS3.1 ASBUILT OVERVIEW
AS3.2 ASBUILT
AS3.3 ASBUILT
AS3.4 ASBUILT
AS3.5 ASBUILT
AS3.6 ASBUILT
AS3.7 ASBUILT
AS3.8 ASBUILT
AS3.9 ASBUILT
AS3.10 ASBUILT
ASR4.1 CONSTRUCTION AND RECLAMATION ACCESS ROAD PROFILE
MRD5.1 RECLAMATION PLAN OVERVIEW
MRD5.2 RECLAMATION PLAN
MRD5.3 RECLAMATION PLAN
MRD5.4 RECLAMATION PLAN
MRD5.5 RECLAMATION PLAN
MRD5.6 RECLAMATION PLAN
MRD5.7 RECLAMATION PLAN
MRD5.8 RECLAMATION PLAN
MRD5.9 RECLAMATION PLAN
MRD5.10 RECLAMATION PLAN
MRD6.3 RECLAMATION DETAILS
MRD6.4 RECLAMATION DETAILS

REVISION	DATE
CHANGES ON SHEETS AS3.10 & MRD5.10 ALSO ADDED SHEET MRD6.4	11-24-2015
CHANGES ON SHEETS AS3.10 & MRD6.4 PER DEP	12-15-2015

UPDATED ASBUILT



 $\frac{K^2}{A} = V^{+ \circ}$



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JUN 1 5 2017

WV Department of Environmental Protection

PmH 5-17-17

Production Company™

Jackson Surveying Inc. TITLE SHEET TS.1SOUTHWESTERN PRODUCTION COMPANY LLC. BLATT WTZ PAD PROCTOR DISTRICT, WETZEL COUNTY, WV 677 W. Main St. Clarksburg, Wv 26301 304-623-5851 NOVEMBER 20, 2015

05-08-2017 Date:



