

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

Monday, August 15, 2016 WELL WORK PERMIT Horizontal 6A / Horizontal 6A Well - 1

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit approval for CONSTANCE TAYLOR WTZ 8H

47-103-03150-00-00

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

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

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

Operator's Well Number: CONSTANCE TAYLOR WTZ 8H

James A. Martin

Farm Name: TAYLOR, CONSTANCE A.
U.S. WELL NUMBER: 47-103-03150-00-00
Horizontal 6A / Horizontal 6A Well - 1

Date Issued: 8/15/2016

Promoting a healthy environment.

API Number: 163-03 150

PERMIT CONDITIONS

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

CONDITIONS

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



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James A. Martin

Farm Name: TAYLOR, CONSTANCE A.
U.S. WELL NUMBER: 47-103-03150-00-00
Horizontal 6A / Horizontal 6A Well - 1

Date Issued: 8/15/2016

Promoting a healthy environment.

API Number: 103-03150

PERMIT CONDITIONS

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API NO. 47-103 - 03150
OPERATOR WELL NO. ODDINGS TORKS WELL PAID
Well Paid Name: Destations Toylor Paid

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

1) Well Operat	tor: SWN I	Production	Co., LLC	49451292	24	103-Wetzel	7-Procto	681-Wileyville
				Operator 1	D	County	District	Quadrangle
2) Operator's \	Well Numbe	r. Constant	e Taylor	WTZ 8H W	ell Pad	Name: Cons	tance Tayl	or Pad
3) Farm Name								
4) Elevation, c	urrent groun	d: 1426'	E	levation, proj	posed p	ost-constructi	on: 1426	
5) Well Type	(a) Gas	x	_ Oil _			ground Storag		
	Other							
	(b)If Gas	Shallow	x	Dec	P _			
6) Existing Pad	l: Yes or No	Horizontal Yes	<u>×</u>				1	MH 8/3/16
7) Proposed Ta	rget Format	ion(s), Depti	o(s), Antic 0-7360°, Ter	ipated Thick gat Base TVD-7	1058 an	d Associated disputed Thickne	Pressure(s):	stod Pressure- 4600#
B) Proposed To						······································	*	
) Formation at	t Total Verti	cal Depth:	Marcellus	3				
(0) Proposed T	otal Measur	ed Depth:	14,300'					
il) Proposed H	lorizontal Le	g Length:	6,910'					
l2) Approxima	te Fresh Wa	ter Strata De	pths:	363'				
i3) Method to 1 i4) Approxima				Offset weils	in the d	dose proximi	ty.	
(5) Approxima	te Coal Sear	n Depths: 1	366'					
l6) Approxima	te Depth to 1	Possible Voi	d (coal mi	ine, karst, oth	er): N	one that we	erswa era	of.
l7) Does Propo lirectly overlyi	sed well loc ng or adjace	ation contain nt to an activ	n coal sear ve mine?	ns Yes _		No	x	
(a) If Yes, pro	vide Mine b	nfo: Name	:	•				
_		Depth	:					
		Seam:				· · · · · · · · · · · · · · · · · · ·		
		Owner	r:		_			
							•	

Page 1 of 3

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ff)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	100'	100'	CTS
Fresh Water	13 3/8*	New	H-40	48#	463'	463'	430 sx/CTS
Coal	9 5/8"	New	J-55	40#	2872'	2872'	1107 sx/CTS
Intermediate	7*	New	P-110	20#	If Needed	If Needed	If Neoded/As Neoded
Production	5 1/2"	New	HCP-110	20#	14,300'		THE AMERICAN SHARE FOR
Tubing	2 3/8'	New	P-110	4.7#	Approx. 7390'	Approx. 7390'	<u>n</u>
Liners					- * P P C C C C C C C C C C	rippiec 1580	

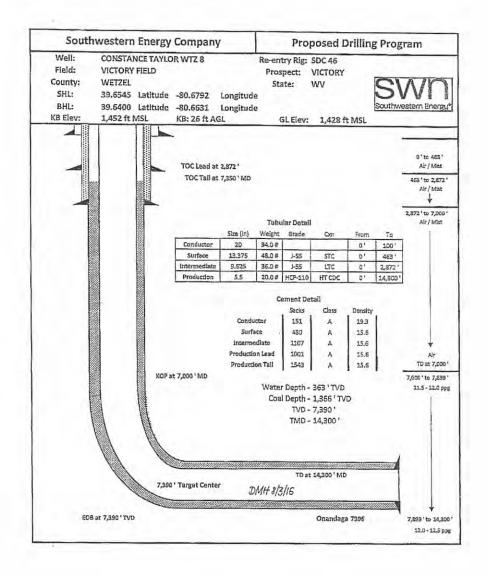
DMH 8/3/16

TYPE	Size (în)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Max. Associated Surface Pressure (psi)	Cement Type	Cement Yield (ou. ft./k)
Conductor	20°	30"	0.25	2120	81	Class A	1.19/50% Excess
Fresh Water	13 3/8"	17.5*	0.380	2740	633	Class A	1.19/50% Excess
Coal	9 5/8"	12 1/4"	0.395	3950	1768	Class A	1.19/50% Excess
Intermediate	7°	8 3/4"	0.317	4360	3250	Class A	1.20/15% Excess
Production	5 1/2"	8 3/4"	0.361	12360	9500		1.20/15% Excess
Tubing	2 3/8"	4.778"	0.190				
Liners							

PACKERS

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

Page 2 of 3



Schlumberger Cement Additives

	Product Name	Product Use	Chemical Name	CAS Number
Surface	S001	accelerator	calcium chloride	10043-52-4
Intermediate	S001	accelerator	calcium chloride	10043-52-4
4	D080	dispersant	sodium polynaphthalene sulfonate	9008-63-3
of Of	D801	retarder	aromatic polymer derivative	propriatary
D080 D801 D047	antifoam	polypropylene glycol	25322-69-4	
	D167	fluid loss	aliphatic amide polymer	propriatary
	D154	extender	non-crystalline silica	7631-86-9
	D400	gas migration	boric acid	10043-35-3
	7		polypropylene glycol	25322-69-4
pe	D046	antifoam	fullers earth (attapulgite)	8031-18-3
Production-Lead			chrystalline silica	14808-60-7
tior	D201	retarder	metal oxide	propriatary
onp			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
=			sodium polynaphthalene sulfonate	9008-63-3
Production-Tail	D065	dispersant	sodium sulfate	7757-82-6
tior	T		chrystalline silica	14808-60-7
onp	D201	retarder	metal oxide	propriatary
Pro	D153	anti-settling	chrystalline silica	14808-60-7

Dan4 12-17-15

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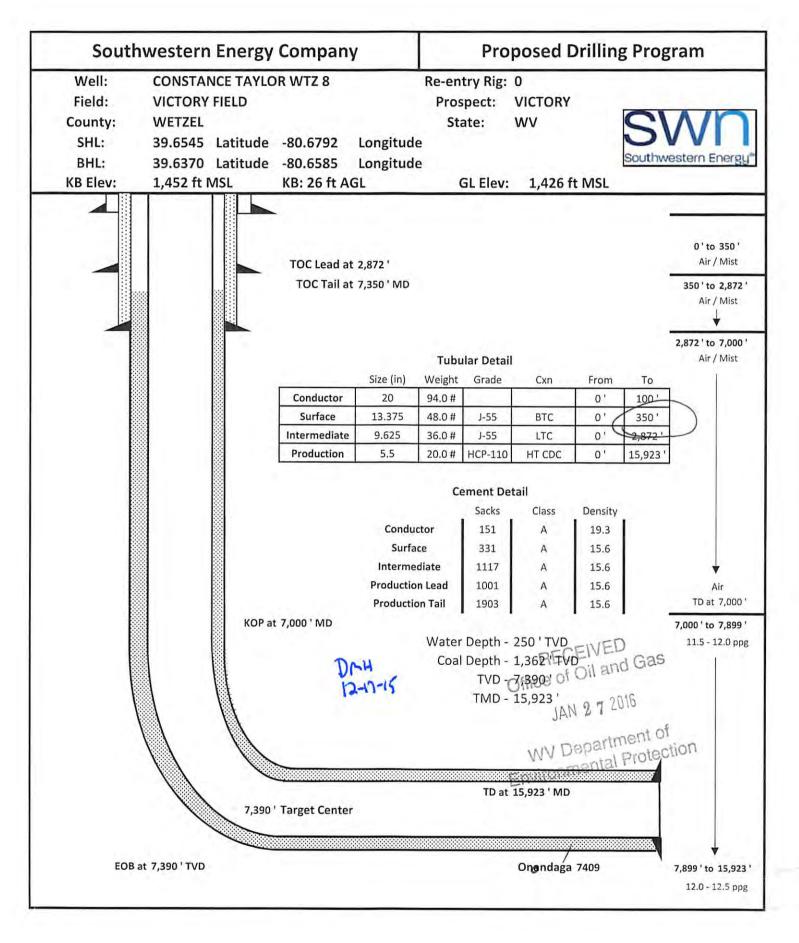
WV Department of
Environmental Protection

08/19/2016

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name_SWN Production C	Co., LLC	OP Code 49447757
Watershed (HUC 10)_Little Fishi	ng Creek Qua	adrangle 681-Wileyville
Elevation 1426	County_103-Wetzel	District 7-Proctor
Do you anticipate using more tha Will a pit be used? Yes	n 5,000 bbls of water to complete the p	2,707-0-100 NO
If so, please describe an	tierpated pit waste.	n place at this time- cuttings will be taken to a permitted landfill.
Will a synthetic liner be	used in the pit? Yes No	If so, what ml.?
Proposed Disposal Meth	nod For Treated Pit Wastes:	11 so, what ml.?
Land A	Application	
		# will be included with the WR-34/DDMR &/or permit addendum.
Off Sit	te Disposal (Supply form WW-9 for di	
Will closed loop system be used?	If so, describe: Yes	
Drilling medium anticipated for t	his well (vertical and horizontal)? Air.	freshwater, oil based, etc. Air and salt saturate mud
	Synthetic, petroleum, etc.Synthetic Oil B	
Additives to be used in drilling m		
	eave in pit, landfill, removed offsite, et	tc. landfill
	solidify what medium will be used? (c	
	The state of the s	Northwestern SWF- 1025. Short Greek 1034/WV0109517/CID28726, Carbon Limestone 28729/CID28726
-Landfill or offsite name Argen Langfill 100/2, Am	permit number/" Derican UZ-12954, Country VVIC	DE 3839U/CID3839U, Pine Grove 13688
on August 1, 2005, by the Office provisions of the permit are enfo law or regulation can lead to enfo I certify under penalty application form and all attach obtaining the information, I beli	of Oil and Gas of the West Virginia De precable by law. Violations of any terror prement action. of law that I have personally examine ments thereto and that, based on my	s of the GENERAL WATER POLLUTION PERMIT issue partment of Environmental Protection. I understand that the or condition of the general permit and/or other applicable and am familiar with the information submitted on the inquiry of those individuals immediately responsible frate, and complete. I am aware that there are significate or imprisonment.
Company Official Signature		Office of Oil and Gas
Company Official (Typed Name		IAN 2 7 2016
Company Official Title Regulate	ory Supervisor	Jan tot
	and a	Way Department of
Subscribed and sworn before me	this and day of DOW	OFFICIAL SEAL Notary Public, State of Wes BRITTANY R WO 3302 Old Elkins Re Buckhannon, WV 26 My commission expires Nogen



014/11/15		Operator's W	Constance Taylor W7			
SWN Production Co., LLC						
Proposed Revegetation Treats	ment: Acres Disturbed	Prevegetation pH	1			
Limeas determined by pH test	Tons/acre or to correct	et to pH				
Fertilizer type	0-20					
Fertilizer amount 6	00	lbs/acre				
Mulch_ Hay/Stra	aw 2.5	_Tons/acre				
		Seed Mixtures				
Ter	mporary	Perma	nent			
Seed Type	lbs/acre	Seed Type	lbs/acre			
White Grove	15	White Grove	15			
Red Top	15	Red Top	15			
Orchard Grass	20	Orchard Grass	20			
Drawing(s) of road, location,	pit and proposed area for l	and application (unless engineered plans inc	luding this info have been			
Orawing(s) of road, location, provided) Photocopied section of involv Plan Approved by:		and application (unless engineered plans inc	cluding this info have been			
Orawing(s) of road, location, provided) Photocopied section of involv Plan Approved by:						
Orawing(s) of road, location, provided) Photocopied section of involv Plan Approved by:		and application (unless engineered plans inc	/ED			
Drawing(s) of road, location, provided) Photocopied section of involv Plan Approved by:		RE6EIV	/EB and Gas			
Attach: Drawing(s) of road, location, provided) Photocopied section of involv Plan Approved by: Comments:		REGEIN Office of Oil	/EB and Gas -2016			
Drawing(s) of road, location, provided) Photocopied section of involv Plan Approved by:	ved 7.5' topographic sheet.	REGEN Office of Oil- JAN 2 7	/EB and Gas -2016			

Marcellus Well Drilling Procedures And Site Safety Plan

SWN Production Co., LLC

47 - 103 - 03150 Well name: Constance Taylor WTZ 8H Wileyville, Quad Proctor, District Wetzel County, West Virginia

Submitted by: Danielle Southall	12-2-2015 Date:
Title Regulatory Supervisor	SWN Production Co., LLC
Approved by: Title: Oil + 6.5 Taspe obv	Date: 12-17-18
Approved by:	Date:
Title: SWN Production Co., LLC – Confidential	

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1. Contacts, Schedules, and Meetings

A. SWN Production Company, LLC. 24 Hour Hotline: 1-877-879-0376

B(a). Emergency Telephone Numbers:

Agency Type	Name	Phone Number	Cell
County Police	Wetzel County	911 or 304-234-3811	
State Police	Wetzel County	304-238-1100	
Ambulance Service	Wetzel County	911 or 304-227-4357	
Hospital	Wetzel County	304-234-0123	
Fire Department	Wetzel County	911 or 304-234-3651	
Wetzel County OEM	Wetzel County	304-455-6960	
Dicky Hall	Drilling Engineer Manager	832-796-7139	501-654-4161
Bill Igou	Drilling Superintendent	570-996-4272	501-269-2946
Danny Brooks	Drilling Superintendent	570-996-4298	
Peter Cain	HSE Field Specialist	281-217-4552	
Derek Cutright	Operations General Manager	281-618-7473	
Chris Flanagan	Production Field Manager	832-796-1626	
Michelle McCracken	Manager HSE	281-618-6284	304-522-1179
Derek Haught	WV Oil and Gas Inspector		304-806-7613
Joe McCourt	Inspector Supervisor		206-
James Martin	Chief	304-926-0499 x 1654	
OEM			
WV DEP	Emergency Pollution and Spills	1-800-642-3074	
Contractor's	Company	Phone	
Well Control Co's	Boots & Coots	1-800-256-9688	
	Halliburton	1-800-409-6479	
Earthwork/Equipment	Triple J Contractors	304-472-3962	
Remediation/Cleanup	Weaverton Environmental	724-746-4850	
Remediation/Cleanup	Ryan Environmental	304-842-5578	
Remediation/Cleanup	Central Environmental Services	304-863-8867	
Heavy Equipment	Kanawha Stone	304-755-8271	
Heavy Equipment/Rouster	Arvilla Pipeline	304-665-2652	
Heavy Equipment	Hoy Contracting	724-627-0272	
Cleanup Supplies	McJunkin Supply	304-472-3565	

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B(b). All School	and Public F	acilities within	Mile Radius:
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Name:	Address:	Phone:
Higgins Chapel (Historical)	Wiley Fork- Long Drain Road Pine Grove, WV 26419	Weztel Historical Society 1-800-416-3497
Williams Valley School (Historical)	1925 Rush Run Road New Martinsville, WV 26155	Weztel Historical Society 1-800-416-3497

C. A formal pre-spud meeting will be held prior to this well being drilled. Discussions between the drilling rig toolpusher and SWN representatives will be held weekly regarding general safety and environmental issues.

Drilling Superintendents: Charlie Amato 501-358-1583

Danny Brooks
Rick Harless
Bill Igou

501-269-2946
304-644-9129
501-654-4161

1. Inspector: Derek Haught

2. Personnel in attendance for pre-spud meeting:

Drilling Land Regulatory Coal Geology Field

- D. HSE meetings will be conducted once per tour and will include all personnel working on location. HSE meetings will cover upcoming operations, JSAs for critical operations, recent HSE incidents, and requirements for safe and healthy operations during current weather conditions. Corporate HSE alerts and rig fleet corrective actions in response to recent HSE incidents will also be discussed when applicable.
 - 1. The highest ranking drilling contractor representative present shall keep an accurate count of all drilling personnel on the drilling location at all times. All non-drilling (i.e., non-SWN and non-drilling contractor) personnel will be required to sign the attached ACCESS CONTROL REPORT (see attachment #1). All non-essential persons will be kept off the trilling location at all times, and such access will be enforced by the highest ranking drilling contractors representative present.

JAN 2 7 2016

Attachment #2

ACCESS CONTROL REPORT

	v	Vell Name: Constance Taylor WTZ	8H
DATE	NAME	Vell Name: Constance Taylor WTZ TIME IN	TIME OUT
		_	

2. Maps and Diagrams

- A. Plan View Map--See Attachment #3
- B. 1 Mile Map -- See Attachment #4
- C. Evacuation Plan--See Attachment #5

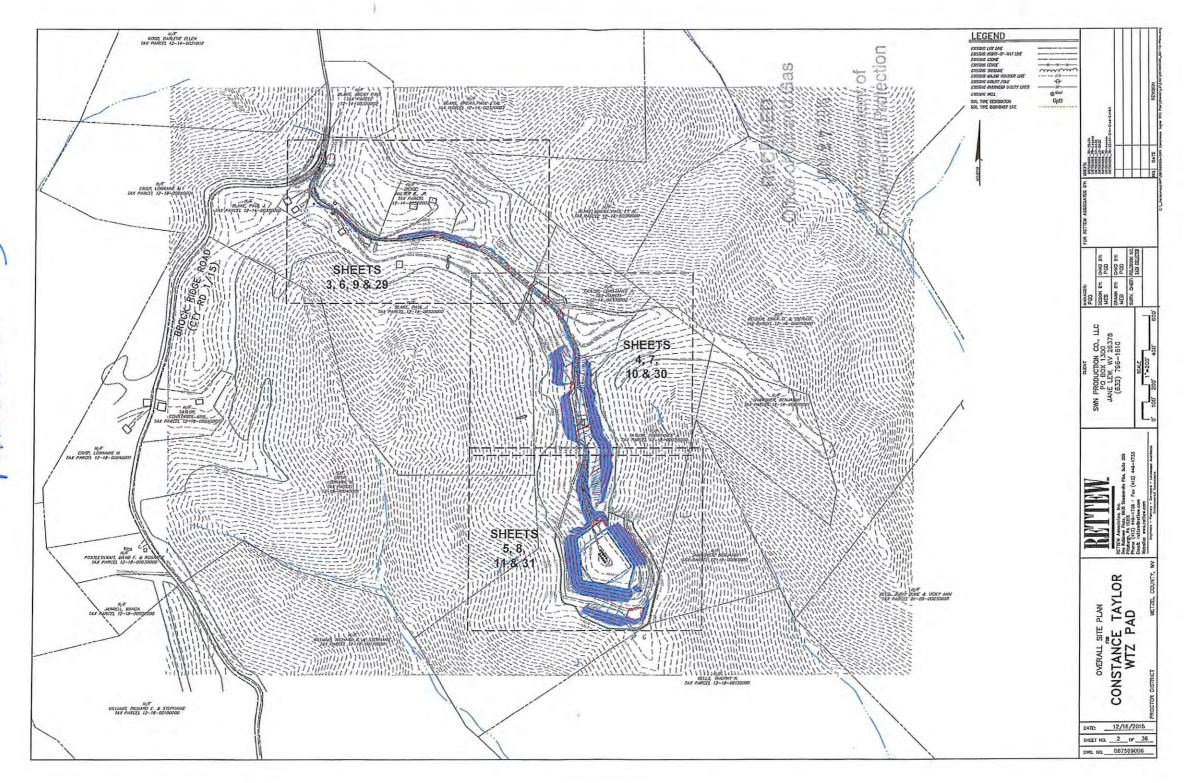
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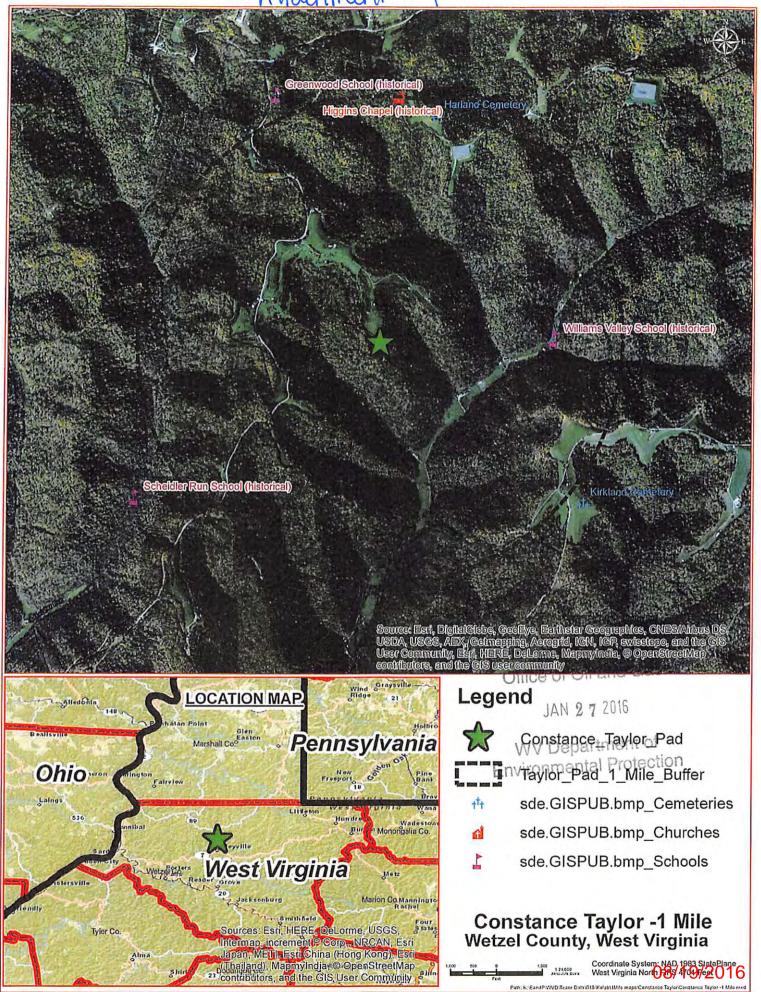
JAN 2 7 2016

WV Department of Environmental Protection

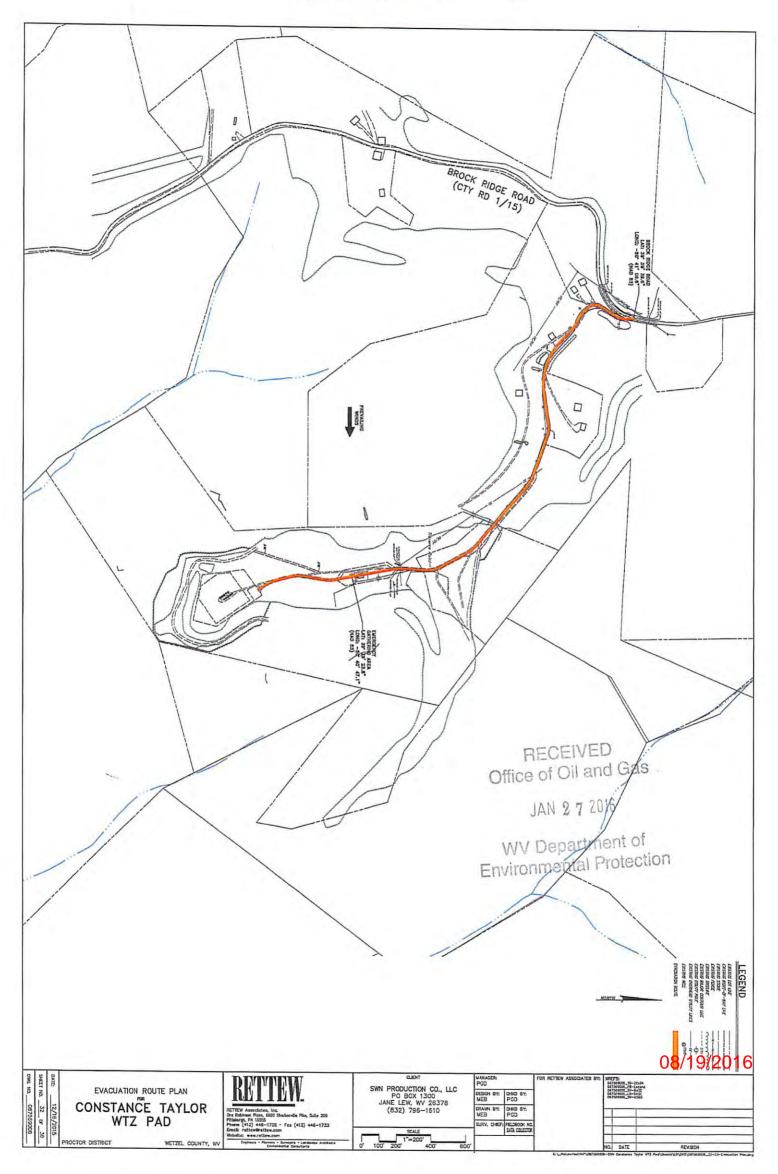
3. Well Work

A. Well Work and Procedures





Attachment #5



- 1. -Well Work Detail: Drill and stimulate the Marcellus formation. If we should encounter a void, place a basket above and below the void area balance cement to bottom of void and grout from basket to surface. Run casing not less than 50' below void nor more than 100' below void. If freshwater is encountered deeper than anticipated it must be protected, set casing at least 50' below but not more than 100' below freshwater and cts.
- 2. -All casing cemented will not be disturbed for at least 8 hours after cementing operations.
- 3. -Surface, Coal, and Intermediate strings will be pressure tested at a pressure 20% greater than what is expected to be exerted on each string throughout the remainder of the well operations.
- 4. -No oil or gas production or pressure should exist on the surface or coal protection strings.
- 5. -A Formation Integrity Test (FIT) will be performed immediately following the drill out of intermediate casing.
- 6. -Centralizers will be used in the well. However, the placement of the centralizers will be contingent on the final well log and directional data.
- 7. -Production casing will be pressure tested at a pressure 20% greater than what is expected to be exerted upon it during fracturing operations. Upon completion of fracturing operations the production casing will be pressure tested at a pressure 20% greater than expected shut in pressure.
- 8. -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 units, vertical separation units, water and oil storage tanks.
- 9. See Attachment #1
- B. A copy of the Site Safety Plan will be provided to the local county emergency office at least 7 days before dirt work or well work commences

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- A. MSDS- please refer to CD
- B. MSDS sheets will be available in the tool- pusher's office.
- C. Please see below:

Schlumberger Cement Additives

	Product Name	Product Use	Chemical Name	CAS Number
Surface	S001	accelerator	calcium chloride	10043-52-4
Intermediate	S001	accelerator	calcium chloride	10043-52-4
y _	D080 dispersant		sodium polynaphthalene sulfonate	9008-63-3
Kick Off Plug	D801	retarder	aromatic polymer derivative	propriatary
Kick (Plug	D047	antifoam	polypropylene glycol	25322-69-4
	D167	fluid loss	aliphatic amide polymer	propriatary
	D154 extender		non-crystalline silica	7631-86-9
	D400	gas migration	boric acid	10043-35-3
		antifoam	polypropylene glycol	25322-69-4
þe	D046		fullers earth (attapulgite)	8031-18-3
Production-Lead			chrystalline silica	14808-60-7
tio	D201	retarder	metal oxide	propriatary
onp			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
=			sodium polynaphthalene sulfonate	9008-63-3
Ta-f	D065	dispersant	sodium sulfate	7757-82-6
tior			chrystalline silica	14808-60-7
Production-Tail	D201	retarder	metal oxide	propriatary
Pro	D153	anti-settling	chrystalline silica	14808-60-7

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A. The following is a list of the blow-out prevention equipment that will be utilized at various times during the drilling of the well:

13-3/8" Casing String

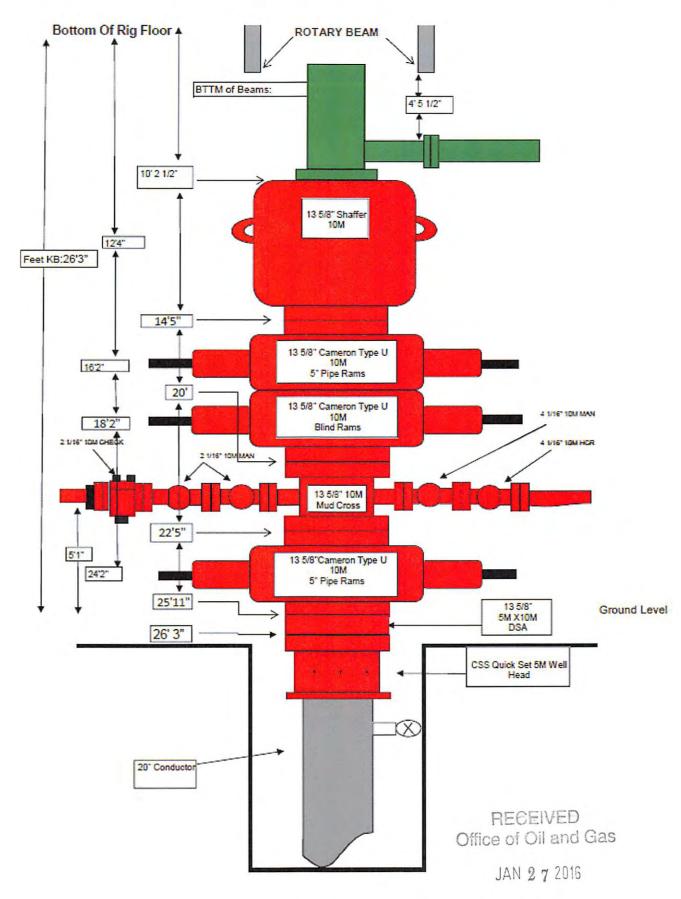
13- 5/8" Annular 13-5/8" 10,000 psi BOP Stack

B. The BOP stack will be pressure upon installation and every 21 days. The BOP stack will be function tested upon installation, weekly, and after every bit trip. All pressure tests shall be performed for thirty (30) minutes. Annular preventers should be tested to seventy percent (70%) of the rated capacity and ram preventers should be tested to eighty percent (80%) of the rated capacity.

C. BOP equipment:

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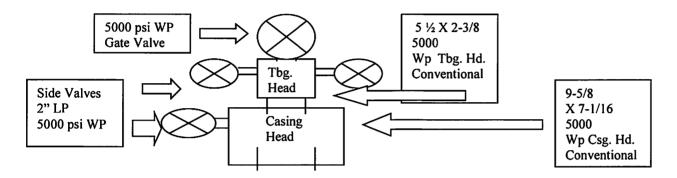


WV Department of Environmental Pr08/19/2016

D. The following persons that will be involved in the drilling operations are BOP certified:

Rig Toolpusher Rig Morning Tour Driller Rig Evening Tour Driller

E-G. See diagram below:



H. Well Killing Operations Method and Type

- 1. Barite and saturated brine will be available if necessary to weight up beyond the proposed compositions.
- 2. Once it is confirmed that a significant gas flow has occurred, the appropriate kill procedure will be employed. The mud weight required to kill the well will be calculated and the surface mud system density will be increased to the required weight. A pumping schedule to circulate the kick out of the well will be calculated and followed once the surface mud system is of proper density.

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6. Hydrogen Sulfide (H2S)

When the risk of exposure to H2S exists based on offset wells drilled in the same formation, H2S monitoring equipment will be installed at the rig floor, shakers, cellar, and pits. If an alarm is presented from any of the sensors, drill operations will cease and all personnel will gather at the appropriate muster area. Properly trained and equipped personnel will determine the validity of the alarm. If the presence of H2S is confirmed, Southwestern Energy's H2S Contingency plan will be activated. A copy of this plan is available upon request and details the equipment, training, and procedures required for operation in an H2S environment.

After the contingency plan is activated the following procedures will be implemented:

- A. In addition to the H2S monitoring equipment mentioned above, two safety area signs, one H2S condition sign and two wind socks will be mobilized to location.
- B. Training programs covering the topics below will be initiated:
 - 1. Basic awareness training (either video or booklet review) will occur on-site and may require two trips in order to train all rig crew members.
 - 2. Each crew member will be given certification test to verify his competence to respond in an H2S situation.
 - 3. Physically show members how to properly don a mask and perform a qualitative fit test (banana oil) if utilizing a tight fitting mask as an escape unit.
 - Identify and discuss the location of escape units, SCBA's and location of H2S monitors and sensors.

C. In the unlikely event that hydrogen sulfide would be present, all affected residents and agencies would be notified by telephone or in person by a SWN Production Company, LLC representative, and access would be controlled by a sign, color coded flags and a sign-in sheet. The Oil and Gas Inspector of the appropriate county will be contacted by phone.

D. In case of an emergency on the drilling site, all persons on location will exit via the access road and meet at the evacuation meeting area designated on the attached EVACUATION PLAN. The highest ranking drilling contractor representative will be responsible for comparing the persons that were present on location to those persons gathered at the designated evacuation meeting area. Protection Zones will be established while drilling that will be located at the predetermined muster points furthest upwind of the location of the H2S.

E. PPE Available

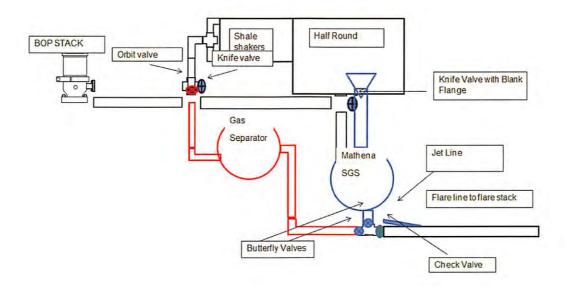
- 1. (10) 5 minute escape packs will be installed on the rig floor for a quick escape.
- 2. (1) 10 minute escape pack will be installed on the board.
- 3. (4) 30 minutes SCBA's will be on-site. Two SCBA's will be placed at the entrance to the location (Muster Point #1) and the other two placed at Muster Point #2 on the other side of the location. This will allow either equipment to be in area that is upwind.

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7. Flaring

A. Well Flaring

- 1. If a significant show is encountered the gas would be flared through the 10" flanged flowline to a flare stack.
- 2. The fire department will be notified immediately prior to flaring if possible.
- 3. The duration of flaring typically should not last more than 10 days.
- 6. Schematic:



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8. Collision Avoidance

Wellbore Anti-Collision and Directional Surveying

1. Survey Requirements

- a. All wells shall be surveyed from the wellhead to a total depth using the guidelines specified in this document.
- b. Survey tool selection shall be based on the anti-collision requirements, survey tool accuracy, target size, and depth.
- c. SWN preferred method of survey calculations shall be the Minimum Radius of Curvature method.
- d. All survey data shall be required to have azimuths precorrected to Grid North. The values for convergence and declinations and depth datum details used shall be reported on all definitive surveys. Additionally, survey tool accuracy should be specified on all surveys presented to SWN.
- e. During collision scans all offset well surveys will be evaluated for accuracy.

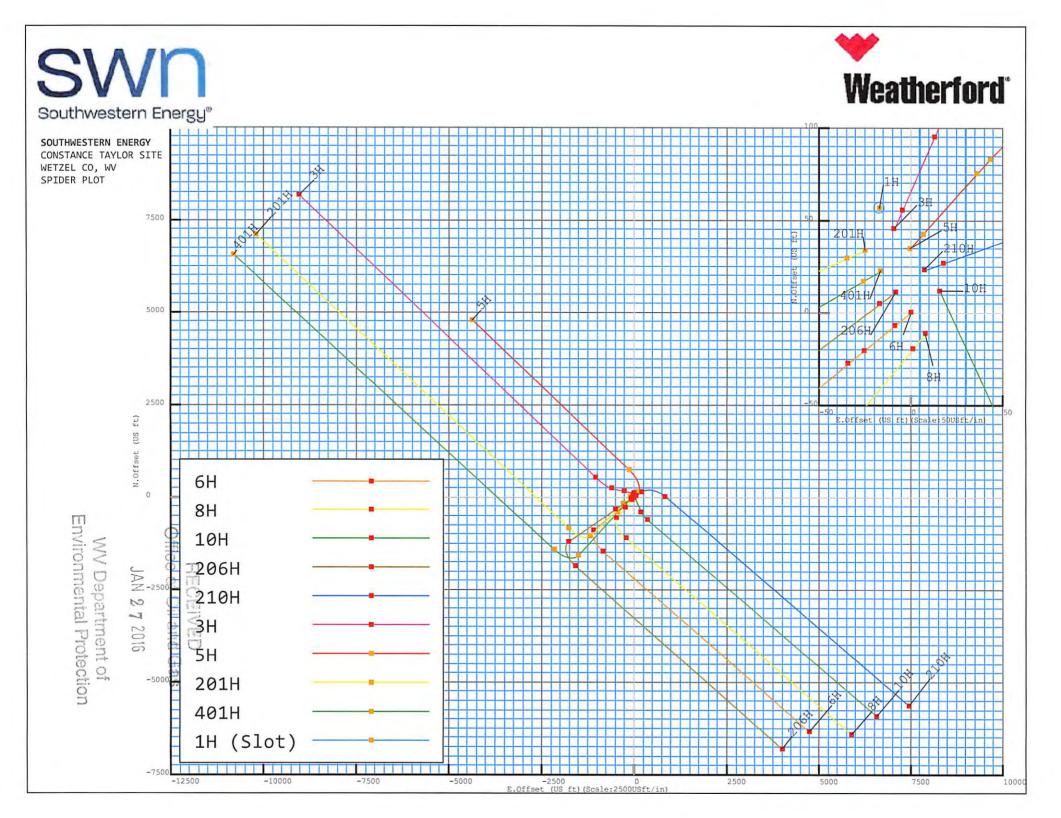
1.1 General Requirements

In all development wells, regularly spaced MWD or Magnetic Single Shot Surveys shall be taken at a frequency not to exceed 300'. Additional surveys may be taken at the discretion of the directional driller, Drilling Representative, Drilling Superintendent, or Drilling Engineer to ensure accuracy and minimize the potential for collision.

1.2 Survey Quality Control and Reporting

- 1.2.1 Deviation calculations shall be performed on the rig by the directional driller and independently verified by Southwestern's 24-hour operations support center. The calculations shall be performed using a company approved program. The directional drilling contractor is responsible for the accurate reporting of all wellbore positioning data. The directional drilling contractor will present the definitive surveys utilizing data from any of SWN's surveying contractors.
- 1.2.2 The SWN representative will check tie-in data before drilling out of each hole section. Projected surveys will never be used to tie-in subsequent surveys.
- never be used to tie-in subsequent surveys.

 1.2.3 The Drilling Engineer and directional drilling contractor, will ensure all directional drilling proposals include the



correct tie-in data and clearly identify the projection to which the plan is tied. This projection will be replaced with a survey once drilling commences.

2. Well Planning Requirements

- 2.1.1 No two wellbores should be designed to be closer than 10' once drilling commences. In the event that two surface locations are closer than 10' apart then directional equipment will be required below conductor and greater than 10' of separation shall be achieved as soon as possible.
- 2.1.2 During the well planning process a clearance scan will be performed and validated. The Directional Drilling Contractor and the Drilling Engineer shall calculate a Separation Factor for all potential collision risk wells identified in the clearance scan.
- 2.1.3 All wells planned with a S.F. of less than 1.5 or at any point closer than 10' planned center to center separation will be reviewed with the Drilling Engineering Manager prior to pre-spud meetings.
- 2.1.4 After completion of location and prior to setting the conductor the land survey company will resurvey the stakes for each surface location and drive a steel stake in the ground identifying each individual well. An as-built will be created and circulated to the Drilling Engineer and Drilling Superintendent identifying each well and the appropriate X and Y locations.

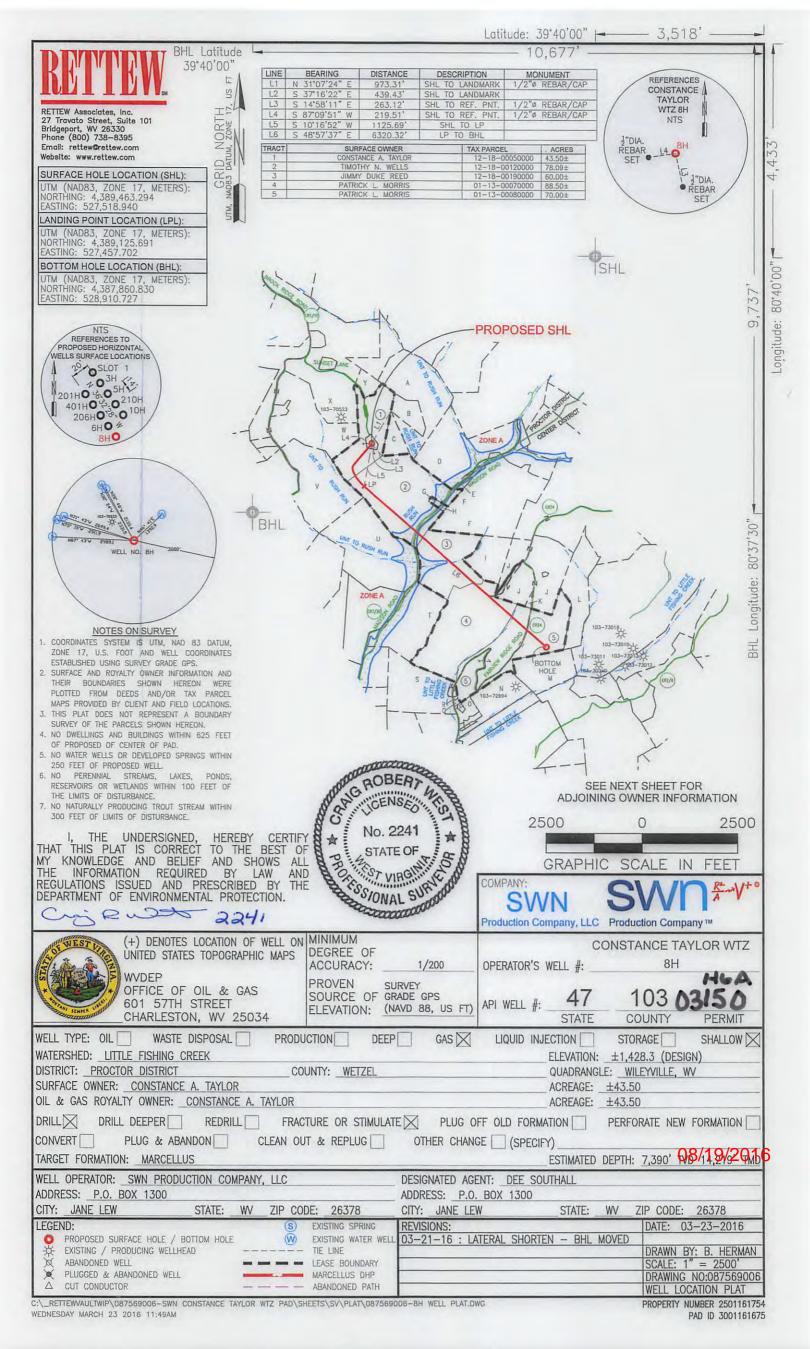
3. Well Execution Requirements

3.1 General Requirements

The Drilling Representative shall have overall responsibility for the maintenance of safe operations when drilling in close proximity to other wells. The lead directional driller is responsible for the accurate reporting of the wellbore positioning and projection and calculation of bit position and uncertainty at the bit.

3.2 Drilling and Survey Procedure Guidelines

The following guidelines and procedures detail the typical responses to be enacted in the event of drilling with close proximity to existing wells.





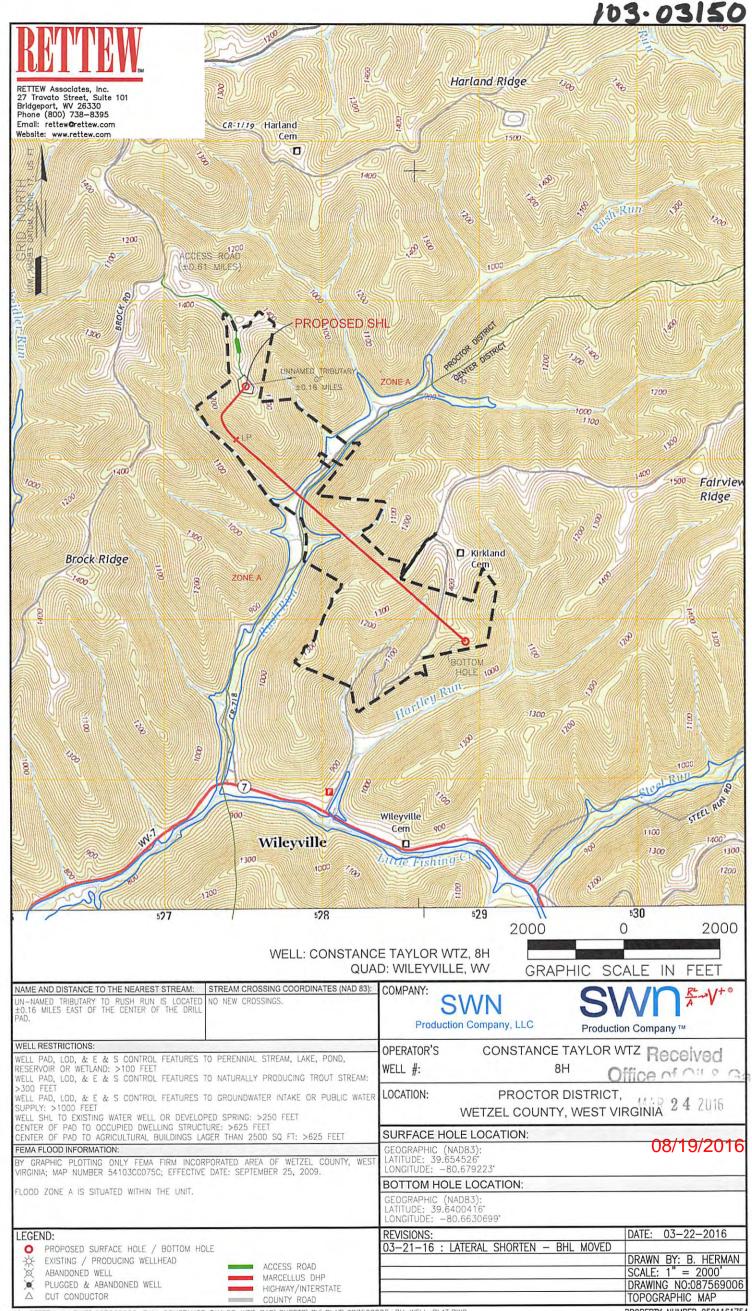


RETTEW Associates, Inc. 27 Travato Street, Suite 101 Bridgeport, WV 26330 Phone (800) 738-8395 Email: rettew@rettew.com Website: www.rettew.com

ADJOINING OWNERS

TRACT	SURFACE OWNERS	TAX PARCEL	ACRES
A	BENJAMIN SHANOWER	12-18-00070001	10.37±
В	ERICK D. & PHYLLIS BECKER	12-18-00070000	57.13
C	BENJAMIN SHANOWER	12-18-00060000	10.00±
D	JIMMY DUKE & VICKY ANN REED	01-09-00030000	46.70±
E	MILLARD R. RIGGS SR & A. R. HRS. F. BERRY SR	01-09-00080000	5.00±
F	KEVIN GOFF & MILLARD F. RIGGS SR	01-09-00090000	78.2±
G	STEVE & ROBERT TORMAN	12-18-00120001	1.11±
H	PENNY LYNN DAY	12-18-00120002	0.80±
1	BOBBY J. & DEBORAH G. DORTON	12-18-00200000	14.37±
J	BOBBY J. & DEBORAH G. DORTON	01-13-00010000	63.50±
K	BESSIE ADAMS & CALVERT OSGAY	01-13-00020000	0.89±
L	PATRICK L. MORRIS	01-13-00040000	32.00±
M	WILLIAM N. & LUCY L. PHILLIPS	01-13-00140001	30.00±
N	PHILLIP JAY MORRIS	01-13-00130000	22.61±
0	TERRY A. & CATHLENE L. PHILLIPS	01-13-00220000	2.96±
P	WILLIAM N. PHILLIPS,	01-13-00220001	0.83±
Q	WM. & LUCY L. PHILLIPS	01-13-00120001	0.94±
R	LLOYD W. & HELEN M. WILSON	01-13-00120002	0.61±
S	STANLEY D. & HILDA G. SMITH	01-13-00120000	49.05±
T	FLOYD D. MELOTT	01-13-00060000	90.50±
U	TIMOTHY N. WELLS	12-18-00180000	85.00±
V	RICHARD E. & STEPHANIE WILLIAMS	12-18-00110000	64.00±
W	LORRAINE M. CRISP	12-18-00040001	90.07±
X	PAUL BRENT BLAKE, ETAL	12-14-00320003	85.96±
Y	CONSTANCE A. TAYLOR	12-14-00330000	6.25±

08/19/2016 COMPANY: **REVISIONS:** SWN 03-21-16 : LATERAL SHORTEN - BHL MOVED Production Company™ Production Company, LLC DATE: 03-23-2016 OPERATOR'S CONSTANCE TAYLOR WTZ DRAWN BY: B. HERMAN SCALE: N/A DRAWING NO:087569006 ADJOINING OWNERS WELL #: 8H LOCATION: PROCTOR DISTRICT, WETZEL COUNTY, WEST VIRGINIA



WW-6A1 (5/13) Operator's Well No. Constance Taylor MSH 8H

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

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

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

Lease Name or Number

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

See Attached

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

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

Well Operator: SWN Production Co., LLC

By:

Its:

SENIOR LANDMAN

Page 1 of

RAVIS

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

Constance Taylor South 8H

Wetzel County, West Virginia

Tract#	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG
1	01-0013-0005-0000	Pending	Lewis N. Wykert and Diann Wykert, husband and wife	Drilling Appalachian Corporation	N/A	142A/535
2	01-0013-0005-0000	Pending	James E. Wykert and Linda Wykert, husband and wife	Drilling Appalachian Corporation	N/A	142A/537
3	01-0013-0005-0000	N/A	Shiben Estates, Inc.	Grendier Energy Partners, LLC	N/A	123A/796
			Grendier Energy Partners, LLC	Statoil USA Onshore Properties, Inc.		153A/695
4	01-0013-0007-0000	1-344236-001	Janice E. Cowan, a single woman	Chesapeake Appalachia, LLC	17.00%	121A/859
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
5	01-0013-0007-0000	1-344236-002	Jon A. Cowan, aka John A. Cowan, a single man	Chesapeake Appalachia, LLC	17.00%	121A/903
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
6	01-0013-0008-0000	WV0000152-001	Geneva Rawe, a widow; Eileen C. Smittle; Madelyn C. Harman, widow	Haddad and Brooks, Inc.	12.50%	80A/72
			Haddad and Brooks, Inc.	Chesapeake Appalachia, LLC		104A/230
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
7	01-0013-0014-0000	1-284667-001	Gene F. Hartwig, a widower	Chesapeake Appalachia, LLC	12.50%	102A/819
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
1 8 1 √	01-0013-0014-0000 O III C C	1-284667-002	Roma Darlene Norris, a married woman dealing in her sole and separate property	Chesapeake Appalachia, LLC	12.50%	102A/822
WV De	REC ce of		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
partment of ental Protection	CEIVED Oil and Gas				-	

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Constance Taylor South 8H

Wetzel County, West Virginia

Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG
9	01-0013-0014-0000	1-284667-003	Katherine Rae Haaf, aka Katherine R. Hartwig-Haaf, aka Katherine Rae Hartwig, widow	Chesapeake Appalachia, LLC	12.50%	103A/587
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
10	01-0013-0014-0000	1-284667-004	Ramona Carlene Lemasters, a married woman dealing in her sole and separate property	Chesapeake Appalachia, LLC	12.50%	103A/666
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
11	. 01-0013-0014-0000 1-284667-005	1-284667-005	John William Barksdale, a married man dealing in his sole and separate property	Chesapeake Appalachia, LLC	15.00%	109A/735
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
12	01-0013-0014-0000	Pending	Rock Camp Oil Co. and Telluric Company	Drilling Appalachian Corporation	N/A	126A/155
13	01-0013-0014-0001	WV0000174-001	Ms. Sharon Shaw Haddad and Brooks, Inc.	Haddad and Brooks, Inc. Chesapeake Appalachia, LLC	12.50%	80A/74 104A/230
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
14 W.V.	01-001@0014-0001	Pending	Scott Andrew Miller and Mary Lou Miller, husband and wife	Drilling Appalachian Corporation	N/A	155A/425
Depart	型-001 <u>©</u> 00 <u>1</u> 7-0001 2 <u></u>	Pending	Craig Tschappat and Jodie Tschappat, husband and wife	Drilling Appalachian Corporation	N/A	155A/427
ment o	成-001新00項-0001 こ の	Pending	William L. Bonar and Mavoureen D. Bonar, husband and wife	Drilling Appalachian Corporation	N/A	155A/436
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Wetzel County, West Virginia

Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG
17	01-0013-0014-0001	Pending	Paul Hedden and Janice Hedden, husband and wife	Drilling Appalachian Corporation	N/A	156A/711
18	01-0013-0014-0001	Pending	John Sambuco and Elaine Sambuco, husband and wife	Drilling Appalachian Corporation	N/A	156A/713
19	01-0013-0014-0001	Pending	Dale Tschappat	Drilling Appalachian Corporation	N/A	156A/715
20	01-0013-0014-0001	Pending	Curtis Tschappat and Cindy Tschappat, husband and wife	Drilling Appalachian Corporation	N/A	157A/380
21	01-0013-0014-0001	Pending	Garnet Snider	Drilling Appalachian Corporation	N/A	159A/369
22	01-0013-0014-0001	Pendng	Garnet Snider	Drilling Appalachian Corporation	N/A	160A/537
23 m	01-0013-0014-0001	Pending	Harold E. Lemasters and Betty L. Lemasters, as Trustees of the Lemasters Keystone Trust Agreement dated April 5, 2012	Drilling Appalachian Corporation	N/A	160A/559
WV Depa	12-0018-00@0000	WV0000155-001	Harold H. Blake and Donna M. Blake, husband and wife	Haddad and Brooks, Inc.	12.50%	79A/452
	office P		Haddad and Brooks, Inc.	Chesapeake Appalachia, LLC		104A/230
Depa Imeni	FIECE S of C		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
25 💢	12-0918-0095-0000	1-292576-001	BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC	12.88%	102A/505
ne on	JED and		BRC Working Interest Company LLC	Chesapeake Appalachia, LLC		103A/470
ment d Proted	្ណ		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
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Wetzel County, West Virginia

Tract#	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG
26	12-0018-0005-0000	1-348380-001	Tammy Kemnetz, a married woman dealing in her sole and separate property	Chesapeake Appalachia, LLC	17.00%	130A/706
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
27	12-0018-0005-0000	1-348380-002	Leonard Dunham, a/k/a Leonard Sidney Dunham, a married man dealing in his sole and separate property	Chesapeake Appalachia, LLC	17.00%	130A/951
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
28	12-0018-0005-0000	1-348380-003	Debra Keesee, a married woman dealing in her sole and separate property	Chesapeake Appalachia, LLC	17.00%	132A/456
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
29	12-0018-0005-0000	47-0000842-001	Joan Sauro, a/k/a Joany Sauro, a married woman dealing in her sole and separate property	Chesapeake Appalachia, LLC	17.00%	153A/480
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
∝W Envir	12-0018-0805-0000	N/A	Audrey Dunham	SWN Production Company, LLC	16.00%	168A/619
	12-0018-8012-9000 AN O	1-301381-001	Mary Ballouz Davis aka Mary B. Davis, a single woman	Chesapeake Appalachia, LLC	17.00%	111A/632
⊮ Depar onmenta	N 2 7		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
ment of Protection	12-0018-0012-0000 	1-301381-002	Rosalyn A. Metzger, a married woman dealing in her sole and separate property	Chesapeake Appalachia, LLC	17.00%	121A/499
of ection	Gas		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540

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Constance Taylor South 8H

Wetzel County, West Virginia

Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG
33	12-0018-0012-0000		Deborah Rein, a married woman dealing in her sole and separate property	Chesapeake Appalachia, LLC	17.00%	121A/495
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
34	12-0018-0012-0000		The Siegler Family Trust, by Rosalyn A. Metzger and Deborah Rein, acting as Trustees	Chesapeake Appalachia, LLC	17.00%	121A/700
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
35	12-0018-0012-0000		BRC Minerals LP and BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC	12.88%	103A/320
			BRC Working Interest Company LLC	Chesapeake Appalachia, LLC		103A/470
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
36	12-0018-0012-0000	N/A	Chesapeake Appalachia, LLC	SWN Production Company, LLC	N/A	157A/646
	12-0018- 60 19-0000		Mary Ballouz Davis aka Mary B. Davis, a single woman	Chesapeake Appalachia, LLC	17.00%	111A/632
V De	JAN		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
WV Degartment	12-9018-0019-0000		Rosalyn A. Metzger, a married woman dealing in her sole and separate property	Chesapeake Appalachia, LLC	17.00%	121A/499
ment o	AED and Ga		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
S S S S	12-0018-0019-0000	1-301381-003	Deborah Rein, a married woman dealing in her sole and separate property	Chesapeake Appalachia, LLC	17.00%	121A/495
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540

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 **Constance Taylor South 8H** Wetzel County, West Virginia

Tract#	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG
40	12-0018-0019-0000	1-301381-004	The Siegler Family Trust, by Rosalyn A.	Chesaneake Annalachia II C	17.00%	121A/700
	11 0010 0013 0000		Metzger and Deborah Rein, acting as Trustees	Cite Superine / ippulatina, etc	17.0070	1217,700
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
41	12-0018-0019-0000		BRC Minerals LP and BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC	12.88%	103A/320
			BRC Working Interest Company LLC	Chesapeake Appalachia, LLC		103A/470
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
42	12-0018-0019-0000	N/A	Chesapeake Appalachia, LLC	SWN Production Company, LLC	N/A	157A/646
43	12-0018-0019-0000	N/A	Richard C. Davis	Haddad and Brooks, Inc.	12.50%	79A/456
			Haddad and Brooks, Inc.	Chesapeake Appalachia, LLC		104A/230
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
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Environmental Protection

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Wetzel County, West Virginia

Surface Owner	Book/Page Must describe The Parcel	Deeded Acreage	Leased
ames E. Wykert, Lewis N. Wykert and Dianne L. Wykert	342/687	135.000000	135.000000
James E. Wykert, Lewis N. Wykert and Dianne L. Wykert	342/687	135.000000	135.000000
James E. Wykert, Lewis N. Wykert and Dianne L. Wykert	342/687	135.000000	135.000000
Patrick L. Morris	393/35	88.500000	88.500000
Patrick L. Morris	393/35	88.500000	88.500000
Patrick L. Morris	371/140	70.000000	102.000000
Rayne E Berger	420/22	17.180000	17.180000
Rayne EzBerger	420/22	17.180000	17.180000

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 Constance Taylor South 8H

Wetzel County, West Virginia

Surface Owner	Book/Page Must describe The Parcel	Deeded Acreage	Leased
Rayne E. Berger	420/22	17.180000	17.180000
Rayne E. Berger	420/22	17.180000	17.180000
Rayne E. Berger	420/22	17.180000	17.180000
Rayne E. Berger	420/22	17.180000	1147.390000
William N. and Lucy L. Phillips	336/412	30.000000	30.000000
William N. and Lucy L. Phillips	336/412	30.000000	30.000000
William N. and Lucy L. Phillips	336/412	30.000000	30.000000
William N. and Lucy L. Phillips	336/412	30.000000	30.000000

Environmental Protection

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 Constance Taylor South 8H

Wetzel County, West Virginia

Surface Owner	Book/Page Must describe The Parcel	Deeded Acreage	Leased
William N. and Lucy L. Phillips	336/412	30.000000	30.000000
William N. and Lucy L. Phillips	336/412	30.000000	30.000000
William N. and Lucy L. Phillips	336/412	30.000000	30.000000
William N. and Lucy L. Phillips	336/412	30.000000	30.000000
William N. and Lucy L. Phillips	336/412	30.000000	30.000000
William N. and Lucy L. Phillips	336/412	30.000000	30.000000
William N. and Lucy L. Phillips	336/412	30.000000	30.000000
<u>Q</u>			
Constance A. Taylor	357/480	43.087500	78.000000
Constance A. Taylor	357/480	43.087500	N/A

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 Constance Taylor South 8H

Wetzel County, West Virginia

Surface Owner	Book/Page Must describe The Parcel	Deeded Acreage	Leased
Constance A. Taylor	357/480	43.087500	43.500000
Constance A. Taylor	357/480	43.087500	43.500000
Constance A. Taylor	357/480	43.087500	43.500000
Constance A. Taylor	357/480	43.087500	43.500000
Constance A. Taylor	357/480	43.087500	N/A
Timothy N. Wells	427/577	78.090000	239.372000
Timothy N. Wells	427/577	78.090000	239.372000

Environmer

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 Constance Taylor South 8H

Wetzel County, West Virginia

Surface Owner	Book/Page Must describe The Parcel	Deeded Acreage	Leased
Fimothy N. Wells	427/577	78.090000	239.372000
Fimothy N. Wells	427/577	78.090000	239.372000
Timothy N. Wells	427/577	78.090000	N/A
Fimothy N. Wells	427/577	78.090000	N/A
immy Duke Reed and Thomas E. Miller	367/683	60.000000	239.372000
immy Duke Reed and Thomas E. Miller	367/683	60.000000	239.372000
immy Duke Reed and Thomas E. Miller	367/683	60.000000	239.372000

WV Department of Environmental Protection

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 Constance Taylor South 8H

Wetzel County, West Virginia

Surface Owner	Book/Page Must describe The Parcel	Deeded Acreage	Leased
Jimmy Duke Reed and Thomas E. Miller	367/683	60.000000	239.372000
Jimmy Duke Reed and Thomas E. Miller	367/683	60.000000	N/A
limmy Duke Reed and Thomas E. Miller	367/683	60.000000	N/A
Jimmy Duke Reed and Thomas E. Miller	367/683	60.000000	240.000000

Office of Oil and Gas

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 Constance Taylor South 8H Wetzel County, West Virginia

Fract #	Lease Number	Lessor	Lessee	Royalty	BK/PG	Surface Owner	Book/Page Must describe The Parcel	Deeded Acreage	Leased
1	1-344236-001	Janice E. Cowan, a single woman Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC SWN Production Company, LLC	17.00%	121A/859 157A/540	Patrick L. Morris	393/35	88.500000	88,500000
1	1-344236-002	Jon A. Cowan, aka John A. Cowan, a single man	Chesapeake Appalachia, LLC	17.00%	121A/903	Patrick L. Morris	393/35	88.500000	88.500000
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540				
2	WV0000152-001	Geneva Rawe, a widow; Elleen C. Smittle; Madelyn C. Harman, widow	Haddad and Brooks, Inc.	12.50%	80A/72	Patrick L. Morris	371/140	70.000000	102.000000
		Haddad and Brooks, Inc. Chesapeake Appalachía, LLC	Chesapeake Appalachia, LLC SWN Production Company, LLC		104A/230 157A/540				
3	WV0000155-001	Harold H. Blake and Donna M. Blake, husband and wife	Haddad and Brooks, Inc.	12.50%	79A/452	Constance A. Taylor	357/480	43.087500	78.000000
		Haddad and Brooks, Inc. Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC SWN Production Company, LLC		104A/230 157A/540				
3	1-292576-001	BRC Appalachian Minerals I LLC BRC Working Interest Company LLC	BRC Working Interest Company LLC Chesapeake Appalachia, LLC	12.88%	102A/505 103A/470	Constance A. Taylor	357/480	43.087500	N/A
		Chesapeake Appalachía, LLC	SWN Production Company, LLC		157A/540				
3	1-348380-001	Tammy Kemnetz, a married woman dealing in her sole and separate property	Chesapeake Appalachia, LLC	17.00%	130A/706	Constance A. Taylor	357/480	43.087500	43.500000
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	11.			
3	1-348380-002	Leonard Dunham, a/k/a Leonard Sidney Dunham, a married man dealing in his sole and separate	Chesapeake Appalachia, LLC	17.00%	130A/951	Constance A. Taylor	357/480	43.087500	43,500000
		property Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540				
3	1-348380-003	Debra Keesee, a married woman dealing in her sole and separate property	Chesapeake Appalachia, LLC	17.00%	132A/456	Constance A. Taylor	357/480	43.087500	43,500000
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540				
3	47-0000842-001	Joan Sauro, a/k/a Joany Sauro, a married woman dealing in her sole and separate property	Chesapeake Appalachia, LLC	17,00%	153A/480	Constance A. Taylor	357/480	43.087500	43.500000
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540				
3	N/A	Audrey Dunham	SWN Production Company, LLC	16.00%	168A/619	Constance A. Taylor	357/480	43.087500	N/A
4	1-301381-001	Mary Ballouz Davis aka Mary B. Davis, a single woman	Chesapeake Appalachia, LLC	17.00%	111A/632	Timothy N. Wells	427/577	78.090000	239.372000
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540				

MAR 2 4 2016

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 Constance Taylor South 8H Wetzel County, West Virginia

Tract #	Lease Number	Lessor	Lessee	Royalty	BK/PG	Surface Owner	Book/Page Must describe The Parcel	Deeded Acreage	Leased
4	1-301381-002	Rosalyn A. Metzger, a married woman dealing in her sole and separate property	Chesapeake Appalachia, LLC	17.00%	121A/499	Timothy N. Wells	427/577	78,090000	239.372000
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540				
4	1-301381-003	Deborah Rein, a married woman dealing in her sole and separate property	Chesapeake Appalachia, LLC	17.00%	121A/495	Timothy N. Wells	427/577	78.090000	239,372000
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540				
4	1-301381-004	The Siegler Family Trust, by Rosalyn A. Metzger and Deborah Rein, acting as Trustees	Chesapeake Appalachia, LLC	17.00%	121A/700	Timothy N. Wells	427/577	78.090000	239.372000
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540				
4	1-292576-001	BRC Minerals LP and BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC	12.88%	103A/320	Timothy N. Wells	427/577	78.090000	N/A
		BRC Working Interest Company LLC Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC SWN Production Company, LLC		103A/470 157A/540				
4	722916-001	Chesapeake Appalachia, LLC	SWN Production Company, LLC	12.50%	157A/646	Timothy N. Wells	427/577	78.090000	N/A
5	1-301381-001	Mary Ballouz Davis aka Mary B. Davis, a single woman	Chesapeake Appalachia, LLC	17.00%	111A/632	Jimmy Duke Reed and Thomas E. Miller	367/683	60.000000	239.372000
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540				
5	1-301381-002	Rosalyn A. Metzger, a married woman dealing in her sole and separate property	Chesapeake Appalachia, LLC	17.00%	121A/499	Jimmy Duke Reed and Thomas E. Miller	367/683	60,000000	239,372000
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540				
5	1-301381-003	Deborah Rein, a married woman dealing in her sole and separate	Chesapeake Appalachia, LLC	17.00%	121A/495	Jimmy Duke Reed and Thomas E. Miller	367/683	60,000000	239,372000
		property Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540				
5	1-301381-004	The Siegler Family Trust, by Rosalyn A. Metzger and Deborah Rein, acting as	Chesapeake Appalachia, LLC	17.00%	121A/700	Jimmy Duke Reed and Thomas E. Miller	367/683	60.000000	239,372000
		Trustees Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540				
5	1-292576-001	BRC Minerals LP and BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC	12.88%	103A/320	Jimmy Duke Reed and Thomas E. Miller	367/683	60.000000	N/A
		BRC Working Interest Company LLC Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC SWN Production Company, LLC		103A/470 157A/540				
5	722916-001	Chesapeake Appalachia, LLC	SWN Production Company, LLC	12.50%	157A/646	Jimmy Duke Reed and Thomas E. Miller	367/683	60.000000	N/A
5	N/A Offi	CRichard C. Davis & Gas	Haddad and Brooks, Inc.	12.50%	79A/456	Jimmy Duke Reed and Thomas E. Miller	367/683	60.000000	240.000000

MAR 24 2016

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 Constance Taylor South 8H Wetzel County, West Virginia

Tract #	Lease Number	Lessor	Lessee	Royalty	BK/PG	Surface Owner	Book/Page Must describe The Parcel	Deeded Acreage	Leased
		Haddad and Brooks, Inc. Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC SWN Production Company, LLC		104A/230 157A/540				

Received Office of Oil & Gas MAR 2 4 2016



PO Box 1300 Jane Lew, WV 26378 PHONE: (304) 884-1610

March 23, 2016

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

RE: Proposed New Well Constance Taylor WTZ 8H & Constance Taylor WTZ 5H

Dear Ms. Adkins:

Enclosed please find a revised WW6A-1 removing tracts and an updated plat for the Constance Taylor WTZ 8H. As well as numbered WW6A-1 for both showing correlation to the plats. These wells are situated on the Kestner property, in Liberty district, Ohio County, West Virginia.

If you have any questions or require additional information, please contact me at 304-884-1614

Thank your

Sincerely.

Dee Southall

Regulatory Supervisor

Southwestern Energy Production Company, LLC

PO Box 1300

Jane Lew, WV 26378

Received
Office of Oil & Gas
MAR 2 4 2016

The Right People doing the Right Things, wisely Investing the cash flow from our underlying Assets, will create Value+



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

January 14, 2015

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

RE: SWN's proposed Constance Taylor WTZ 3H in Wetzel County, West Virginia, Drilling under Wheston Road, Blake Ridge, Brock Ridge Road, & Sunset Lane.

Dear Ms. Cooper:

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

Thank you.

Sincerely,

SWN Production Company, LLC

PO Box 1300

Jane Lew, WV 26378

The Right People doing the Right Things, wisely Investing the cash flow from our underlying Assets, will create Value+

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

Date of Noti	ce Certification:			ell No. Cons	3150 stance Taylor WTZ 8H
NT. /	to introduce the first		Well Pad Nan	ne: Constan	ice Taylor Pad
	been given:	8 22 6A the O	ia a a como i		'd d At d B B
below for the	he provisions in West Virginia Code at tract of land as follows:	§ 22-6A, the Operator has provi	ided the requir	ed parties v	vith the Notice Forms liste
State:	WV		Easting: 52	27518.940	
County:	103-Wetzel			389463.294	
District:	7-Proctor	Public Road Acce	_	ock Ridge Roa	d
Quadrangle:	681-Wileyville	Generally used far		onstance Taylor	
Watershed:	Little Fishing Creek				
Pursuant to	have been completed by the applicar West Virginia Code § 22-6A, the Op	perator has attached proof to the	is Notice Certi	ification	
	erator has properly served the require ECK ALL THAT APPLY	d parties with the following:			OOG OFFICE USE ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS			☐ RECEIVED/ NOT REQUIRED
☒ 2. NO	TICE OF ENTRY FOR PLAT SURV	YEY or [NO PLAT SURVE	Y WAS CON	DUCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED NOTICE OF ENTRY FOR POWAS CONDUCTED OF			
		WAS COMBECTED OF			NOT REQUIRED

Required Attachments:

■ 5. PUBLIC NOTICE

6. NOTICE OF APPLICATION

■ 4. NOTICE OF PLANNED OPERATION

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

JAN 2 7 2016

RECEIVED

RECEIVED

☐ RECEIVED

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

By: Dee Southall

Its: Regulatory Supervisor

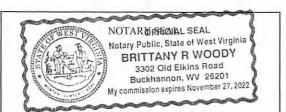
Telephone: 832-796-1614

Address: P.O. Box 1300

Jane Lew, WV 26378

Facsimile:

Email: Dee Southall@swn.com



Subscribed and sworn before me this

day of **Drumber** 2015

Notary Public

My Commission Expires

Oil and Gas Privacy Notice:

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

API NO. 47- 103 - 03150

OPERATOR WELL NO. Constance Taylor WIZ BH
Well Pad Name: Constance Taylor Pad

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

Notice Time Requirement: notice shall be provided no late	er than the filing date of permit application.
Date of Notice: Date Permit Application Filed	1/20/1
	Letteff 6
Notice of:	
☑ PERMIT FOR ANY ☐ CERTIFICATE OF	APPROVAL FOR THE
	OF AN IMPOUNDMENT OR PIT
WEEL WORK CONSTRUCTION	OF AN INFOONDMENT OR FIT
Delivery method pursuant to West Virginia Code § 22-6	A-10(b)
☐ PERSONAL ☑ REGISTERED ☐ M	ETHOD OF DELIVERY THAT REQUIRES A
	ECEIPT OR SIGNATURE CONFIRMATION
sediment control plan required by section seven of this article, the surface of the tract on which the well is or is proposed to be oil and gas leasehold being developed by the proposed well we described in the erosion and sediment control plan submitted properator or lessee, in the event the tract of land on which the women coal seams; (4) The owners of record of the surface tract well work, if the surface tract is to be used for the placement, of impoundment or pit as described in section nine of this article; have a water well, spring or water supply source located within provide water for consumption by humans or domestic animals proposed well work activity is to take place. (c)(1) If more than subsection (b) of this section hold interests in the lands, the apprecords of the sheriff required to be maintained pursuant to see provision of this article to the contrary, notice to a lien holder in	eipt or signature confirmation, copies of the application, the erosion and and the well plat to each of the following persons: (1) The owners of record of the located; (2) The owners of record of the surface tract or tracts overlying the ork, if the surface tract is to be used for roads or other land disturbance as the unsuant to subsection (c), section seven of this article; (3) The coal owner, well proposed to be drilled is located [sic] is known to be underlain by one or or tracts overlying the oil and gas leasehold being developed by the proposed construction, enlargement, alteration, repair, removal or abandonment of any (5) Any surface owner or water purveyor who is known to the applicant to a one thousand five hundred feet of the center of the well pad which is used to se; and (6) The operator of any natural gas storage field within which the an three tenants in common or other co-owners of interests described in plicant may serve the documents required upon the person described in the ation eight, article one, chapter eleven-a of this code. (2) Notwithstanding any is not notice to a landowner, unless the lien holder is the landowner. W. Va. also provide the Well Site Safety Plan ("WSSP") to the surface owner and any sting as provided in section 15 of this rule.
☐ Application Notice ☐ WSSP Notice ☐ E&S Plan No	otice
SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name: Constance Taylor	Name: Consolidated Coal Company
Address: 807 Johnson St	Address: 1000 Consol Energy Drive
New Martinsville, WV 26155	Canonsburg, PA 15317
Name:	☐ COAL OPERATOR
Address:	Name:
	Address:
SURFACE OWNER(s) (Road and/or Other Disturbance)	TOWNS A CE OWNER OF WATER WELL
Name:	SURFACE OWNER OF WATER WELL.
Address:	AND/OR WATER PURVEYOR(s)
	Name: See Attachment #1
Name:	Address:
Address:	POPERATOR OF ANY NATURAL GAS STORAGE FIELD
CLIDE ACE OWNED (a) (Income description on Dita)	
SURFACE OWNER(s) (Impoundments or Pits)	Name:
Name:Address:	Address:
Address:	*Please attach additional forms if necessary Office of Oil and Gas
	the state of the s

JAN 2 7 2015

AHachment #1

Constance Taylor WTZ Pad - Water Purveyors w/in 1500'

Landowner

Address

Erick & Phyllis Becker

647 Sunset Lane New Martinsville, WV 26155

RECEIVED
Office of Oil and Gas

JAN 2 7 2016

WV Department of Environmental Protection 08/19/2016

API NO. 47-103 - 03150
OPERATOR WELL NO. CONSTANCE TAYLOR WATER BH
Well Pad Name: Constance Taylor Pad

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

RECEIVED
Office of Oil and Gas

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.

JAN 2 7 2016

API NO. 47- 103 - 03150

OPERATOR WELL NO. Constance Taylor WTZ BH

Well Pad Name: Constance Taylor Pad

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

API NO. 47- 103 - 63150

OPERATOR WELL NO. Constance Taylor WTZ BH

Well Pad Name: Constance Taylor Pad

Notice is hereby given by:

Well Operator: SWN Production Co., LLC

Telephone: 304-884-1613 Email: Dee_Southall@swn.com Address: P.O. Box 1300

Jane Lew, WV 26378

Facsimile:

Oil and Gas Privacy Notice:

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

OFFICIAL SEAL
Notary Public, State of West Virginia
BRITTANY R WOODY
3302 Old Elkins Road
Buckhannon, WV 26201
My commission expires November 27, 2022

Subscribed and sworn before me this

day of

Notary Public

My Commission Expires_

RECEIVED
Office of Oil and Gas

JAN 2 7 2016



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

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

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 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: Address: Name: Address: Name: Address: Notice is hereby given: Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: West Virginia County: West Virginia County: 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 County: West Virginia Code § 22-6A-16(b), this 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: West Virginia County: West Virginia Code § 22-6A-16(b), this notice is hereby given by: Watershed: UTM NAD 83 Northing: West Virginia Generally used farm name: Constance Taylor West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electroni	Notice Time I Date of Notice	Requirement: Notice shall be provided at 2: 12/08/2015 Date Per	least TEN (10) days prior to filing a mit Application Filed:	a permit application.
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 filling 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: Constance A. Taylor Name: Address: BOT Johnson St. Address: BOT Johnson	Delivery meth	od pursuant to West Virginia Code § 2	2-6A-16(b)	
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 filling 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: Constance A Taylor Name: Constance A Taylor 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 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 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 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 and horizontal well on the tract of land as follows: State: West Virginia Code § 22-6A-16(b), notice is hereby given by: Welloperator Sweltz February and the undersigned well operator has an intent to enter upon the secretary	☐ HAND	CERTIFIED MAIL		
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 firliling 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: Address: 807 Johnson St. New Martineville, WV 281955 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 County: Wetzel UTM NAD 83 County: Wetzel UTM NAD 83 Northing: 4.389,463.29 Public Road Access: Brock Ridge Road Ouadrangle; Wileyille Watershed: Little Fishing Croek 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, acasimile number and electronic mail address of the operator and the operator's authorized representative. Additional information elated to thorizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, ocated at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx. Notice is hereby given by: Well Operator: Well Operator: SWN Production Company, LLC Address: PO Box 1300, 179 Innovation Drive Jane Lew, WV 28378 Telephone: Micah, Feather@swn.com Micah, Feather@swn.com			UESTED	
Name: Constance A Taylor Address: 807 Johnson St. New Martinsville, WV 26155 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: County: West Virginia UTM NAD 83 Easting: 527,518.94 County: Weizel UTM NAD 83 Northing: 4,399,463.29 District: Proctor Public Road Access: Brock Ridge Road Quadrangle: Wileyville Generally used farm name: Constance Taylor This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx. Notice is hereby given by: Well Operator: SWN Production Company, LLC Address: PO Box 1300, 179 Innovation Drive Jane Lew, WV 26378 Telephone: 304-884-1611 Email: Micah_Feather@swn.com Name: Address: Maddress: Mell operator has an intent to enter upon defined well on the tract of land as follows: Services and intent to enter upon defined the undersigned well operator has an intent to enter upon defined the undersigned well operator has an intent to enter upon defined the undersigned well operator has an intent to enter upon lower and information follows: Address: PO Box 1300, 179 Innovation Drive Jane Lew, WV 26378 Telephone: 304-884-1611 Email: Micah_Feather@swn.com	receipt request drilling a horize of this subsect subsection may and if available	ed or hand delivery, give the surface own tontal well: <i>Provided</i> , That notice given ion as of the date the notice was provided by be waived in writing by the surface own a, facsimile number and electronic mail as	ner notice of its intent to enter upon to pursuant to subsection (a), section to the surface owner: <i>Provided, hower</i> . The notice, if required, shall incoddress of the operator and the operator	the surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this lude the name, address, telephone number,
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Notice is hereby given by: Well Operator: SWN Production Company, LLC Address: PO Box 1300, 179 Innovation Drive Jane Lew, WV 26378 Telephone: 304-884-1611 Email: Micah_Feather@swn.com Authorized Representative: Omicah_Feather Oil and Gas Address: PO Box 1300, 179 Innovation Drive Jane Lew, WV 26378 2015 Telephone: 304-884-1611 Email: Micah_Feather@swn.com	This Notice S Pursuant to W facsimile num related to hori	Shall Include: Vest Virginia Code § 22-6A-16(b), this ber and electronic mail address of the contained from the	operator and the operator's authorize Secretary, at the WV Department of	ted representative. Additional information of Environmental Protection headquarters,
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Jane Lew, WV 26378 Jane Lew, WV 26378 Z U 15 Telephone: 304-884-1611 Telephone: 304-884-1611 Email: Micah_Feather@swn.com Email: Micah_Feather@swn.com				
Email: Micah_Feather@swn.com Email: Micah_Feather@swn.com of				Jane Lew-WV 26378 2016
	Telephone:	304-884-1611		304-884-1611
Facsimile: Environmental Protection	Email:	Micah_Feather@swn.com	Email:	Micah_Feather@swn.com nt of
	Facsimile:	4	Facsimile:	Invironmental Protection

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 deprivacyofficer@wv.gov.

WW-6A5 (1/12) Operator Well No. Constance Taylor WTZ BH

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

Date of Notice	Requirement: notice shall ce: 12/08/2015 D		later than the filing oplication Filed:	date of permit	application.
Delivery met	thod pursuant to West Virg	ginia Code § 2	22-6A-16(c)		
CERTI	FIED MAIL		HAND		
	RN RECEIPT REQUESTED		DELIVERY		
return receipt the planned of required to be drilling of a damages to the (d) The notice of notice.	requested or hand delivery, operation. The notice requi- e provided by subsection (b) horizontal well; and (3) A page surface affected by oil and	give the surfa ired by this su , section ten of proposed surfa d gas operation hall be given to	ce owner whose land absection shall inclu- if this article to a surf- ace use and compens as to the extent the day to the surface owner a	I will be used for de: (1) A copy ace owner whos sation agreemen amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
	s listed in the records of the				
at the addres					
(at the addres Name: Constan	ce A. Taylor	/	Name:		
			Address		
Name: Constan Address: 807 New Martisnville,	Johnson St. WV 26155				
Name: Constan Address: 807. New Martisnville, Notice is her Pursuant to W operation on State: County: District: Quadrangle:	eby given: /est Virginia Code § 22-6A- the surface owner's land for West Virginia Wetzel Proctor Willeyville		Address s hereby given that the familiang a horizonta UTM NAD 8	ne undersigned value on the tra Easting: Northing:	well operator has developed a planned act of land as follows: 527,518.94 4,389,463.29 Brock Ridge Road Constance Taylor
Name: Constan Address: 807 New Martisnville, Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r	eby given: Vest Virginia Code § 22-6A- the surface owner's land for West Virginia Wetzel Proctor Willeyville Little Fishing Creek Shall Include: Vest Virginia Code § 22-6A- ed by W. Va. Code § 22-6A- ed by Oil and gas operation telated to horizontal drilling located at 601 57th Street	-16(c), this not A-10(b) to a since use and consist of the extension may be obtain	Address s hereby given that the farilling a horizonta UTM NAD 8 Public Road Generally use tice shall include: (1) surface owner whose impensation agreement the damages are coined from the Secret	ne undersigned of well on the tra Basting: Northing: Access: ed farm name: OA copy of this e land will be undersigned arm, at the WV	act of land as follows: 527,518.94 4,389,463.29 Brock Ridge Road
Name: Constan Address: 807. New Martisnville, Notice is her Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters, gas/pages/def	eby given: Vest Virginia Code § 22-6A- the surface owner's land for West Virginia Wetzel Proctor Willeyville Little Fishing Creek Shall Include: Vest Virginia Code § 22-6A- ed by W. Va. Code § 22-6A- ed by W. Va. Code § 22-6A- ed by oil and gas operation telated to horizontal drilling located at 601 57 th Street. Sault.aspx.	-16(c), this not A-10(b) to a since use and consist of the extension may be obtain	Address s hereby given that the farilling a horizonta UTM NAD 8 Public Road Generally use tice shall include: (1) surface owner whose impensation agreement the damages are coined from the Secret	ne undersigned of well on the tra Basting: Northing: Access: ed farm name: OA copy of this e land will be undersigned arm, at the WV	act of land as follows: 527,518.94 4,389,463.29 Brock Ridge Road Constance Taylor code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
Name: Constan Address: 807 New Martisnville, Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters,	eby given: Vest Virginia Code § 22-6A- the surface owner's land for West Virginia Wetzel Proctor Willeyville Little Fishing Creek Shall Include: Vest Virginia Code § 22-6A- ed by W. Va. Code § 22-6A- ed by W. Va. Code § 22-6A- ed by oil and gas operation telated to horizontal drilling located at 601 57 th Street. Sault.aspx.	-16(c), this not A-10(b) to a since use and consist of the extension may be obtain	Address s hereby given that the drilling a horizonta — UTM NAD 8 — Public Road of Generally use tice shall include: (1) surface owner whose impensation agreement the damages are contined from the Secreteston, WV 25304	ne undersigned of the transport of the undersigned of the transport of the transport of the undersigned farm name: Access: Accepy of this eland will be understand will be understand understand the WV (304-926-0450)	act of land as follows: 527,518.94 4,389,463.29 Brock Ridge Road Constance Taylor code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-

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 deprivacyofficer@wv.gov.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways 1900 Kanawha Boulevard East • Building Five • Room 110

Charleston, West Virginia 25305-0430 • (304) 558-3505

January 25, 2016

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

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 Constance Taylor Pad, Wetzel County

Constance Taylor WTZ 8H

Dear Mr. Martin,

Earl Ray Tomblin

Governor

The West Virginia Division of Highways has received an application for Permit for the subject site from Southwestern Energy for access to the State Road for the well site located off of Wetzel County Route 15/1 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.

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer

Office Oil &Gas Coordinator

Wy Department of Environmental Protection

Cc: Brittany Woody Southwestern Energy

CH, OM, D-6

File

Supplier Name	Product Name	Product Use	Chemical Name	CAS Number
			Ethanol	000064-17-5
NALCO	EC6110A	Biocide	Glutaraldehyde (Pentanediol)	000111-30-8
ONESOURCE			Quaternary Ammonium Compounds	N/A-063
	EC6629A	Biocide	No Hazardous Components	NONE
	WBK-133 OXIDIZER	Breaker	Ammonium Persulfate	007727-54-0
			Ammonium Persulfate	007727-54-0
	WBK-134	Breaker	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7
×	MOC COAL C	Clay Stabilizer	Proprietary Non Hazardous Salt	N/A-229
	WCS-631LC	Clay Stabilizer	Water	007732-18-5
	WFR-55LA	Friction Reducer	No Hazardous Components	NONE
	WGA-15L	Gel	Petroleum Distillate Hydrotreated Light	064742-47-8
WEATHERFORD			Potassium Carbonate	000584-08-7
	WPB-584-L	Buffer	Potassium Hydroxide	001310-58-3
	WXL-101LE	Corsslinker	No Hazardous Components	NONE
	WXL-101LM	Crosslinker	Petroleum Distillate Hydrotreated Light	064742-47-8
	reverse seem		Water	007732-18-5
			Ethylene Glycol	000107-21-1
	WXL-105L	Crosslinker	Boric Acid	010043-35-3
			Ethanolamine	000141-43-5
	B244 Green-Cide 25G	Biocide	Glutaraldehyde	111-30-8
	L071 Temporary Clay Stabilizer	Clay Stabilizer	Cholinium Chloride	67-48-1
	Breaker J218		Diammonium Peroxidisulphate	7727-54-0
SCHLUMBERGER	EB-Clean* J475 Breaker	Breaker	Diammonium Peroxidisulphate	7727-54-0
		100000000000000000000000000000000000000	Distillates (petroleum),	64742-47-8
-	Friction Reducer B315	Friction Reducer	Hydrotreated light Aliphatic Alcohol Glycol Ether	Proprietary
	Friction Reducer J609		Ammonium Sulfate	7783-20-2

RECEIVED Office of Oil and Gas

JAN 27 2016

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

RECEIVED
Office of Oil and Gas

JAN 2 7 2016

Supplier Name	Product Name	Product Use	Chemical Name	CAS Number
			Didecyl Dimethyl	007173-51-1
			Ammonium Chloride	0000004.47.5
			Ethanol	000064-17-5
	Torrito taken -		Glutaraldehyde	000111-30-8
	ALPHA 1427	Biocide	(Pentanediol)	
	100000000000000000000000000000000000000		Quaternary Ammonium	068424-85-1
			Compound	
			Water	007732-18-5
	BF-7L	Buffer	Potassium Carbonate	000584-08-7
		THE STORY	Choline Chloride	000067-48-1
	ClayCare	Clay Stabilizer		
	ClayCale	Clay Clabilizer	Water	007732-18-5
			No Hazardous Components	NONE
BAKER HUGHES	Enzyme G-I	Breaker		
	ENZYME G-NE	Breaker	No Hazardous Components	NONE
		Friction	Petroleum Distillate	064742-47-8
	FRW-18	Reducer	Hydrotreated Light	
		N CONTRACTOR OF THE PARTY OF TH	Petroleum Distillate Blend	N/A-014
	GW-3LDF	Gel		
	011 0251		Polysaccharide Blend	N/A-021
			Diethylene Glycol	000111-46-6
	004157801 700	Casla labibitas		
	SCALETROL 720	Scale Inhibitor	Ethylene Glycol	000107-21-
			Design Asid	010043-35-3
			Boric Acid	010043-33-
	XLW-32	Crosslinker	Methanol (Methyl Alcohol)	000067-56-
	APB01 (AMMONIUM	Breaker	Ammonium Persulfate	007727-54-
	PERSUFATE BREAKER)	Dieakei		
	B05 (LOW PH BUFFER)	Buffer	Acetic acid	000064-19-
	BXL03 Borate XL Delayed	0 . " !	No Hazardous Components	NONE
	High Temp	Crosslinker		
FRAC TECH	FRW-200	Friction	No Hazardous Components	NONE
SERVICES		Reducer		004740 47
	HVG01 (TURQUOISE-1	Gelling Agent	Petroleum Distillate	064742-47-
	BULK)	3. 3.11	Hydrotreated Light No Hazardous Components	NONE
	KCLS-4	Clay Stabilizer	INO Flazardous Components	NONE
			Ammonium Persulfate	N/A
	LTB-1	Breaker		

RECEIVED
Office of Oil and Gas

JAN 27 2016



EROSION AND SEDIMENT CONTROL PLAN

CONSTANCE TAYLOR WTZ PAD

PROCTOR DISTRICT, WETZEL COUNTY, WEST VIRGINIA

- NAME OF REPORTS OF THE RESIDENCE OF THE PROPERTY OF THE PROPER
- ACTUST CERTIFICIES IN ACCORDANCE WITH APPLICABLE SEGULATIONS WITH, WHICH IS THE MEDIAN AND SHAPE WE SETTLED TO SECOND SHAPE HE OPENIND PRODUCELY TO SEE CHARLE OF STOREGO MAILS SHAPE OF WHITEIN CHARLES AND SECOND SHAPE SHAPE OF WHITEIN CHARLES AND SECOND OF SHAPE O



SOILS CLASSIFICATION

GEO. GILPIN PEABODY COMPLEY, 15 TO 15% SLOPES SEE GLPIN PEABOUT COMPLEX, 55 TO 70% SLOPES

	PAO SITE	OPIVE.	2IIC
CUT (SOL)	+44,107 CY	- 9.438 CY	453,545 CT
10% COMPACTION (SOL)		
	- 4.411 CT	- 944 CY	- 5,355 CY
CUT (ROCK)	+ 7,607 CY	- 5 CT	+ 7,702 CY
15% SWELL (ROCK)	+ 1,155 CY	* 1 CY	+ 1,156 CY
FELL	-34.8:5 CY	-12:35 Cr.	-45.953 EY
NET	+13,733 CY	- 3,638 CY	- 10,095 CY
STONE	+ 4,150 CY	- 2,934 CY	- 7,084 CY
TOPSOIL	+ 2,390 CY	+ 1,703 CY	- 4,093 CY

- THE TOPSICL DEPIN FOR THE ACCRESS DRIVE IS 0.5° (EV. 0.+00 TO THE OBJACO). AND 0° (211-00) TO 21-00) THE TOPSICL DRIVE OF THE TOPSICL DRIVE OF THE TOPSIC DRIVE OF THE ORIGINATION OF THE OBJACO OBJAC

YOU DIG! 800.245.4848

Dial 811 or

DATE: 03/04/2015 TICKET # 1506308695

LIST OF DRAWINGS

	COVER SHIET & GENERAL NOTES.
2 05 17	CHERALL SITE PLAN
3 OF 37	ENLARGED LAYOUT PLAN
	ENCANGED LAYOUT PLAN
	DILARGED LAYOUT PLAN
6 OF 31	EROSON & MEDINENT DONTED, PLAN
	EROSON & MEDINENT CONTROL PLAN
8 DF 31	EROSON & SEDIMENT CONTROL PLAN
	WY DEP EAS PLAN
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11 OF 27.	WY DEP EAS PLAN
	ACCESS DRIVE PROFILE
	ACCESS ERRYE PROFILE
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	- WELL PAD CROSS SECTIONS
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	DROSS SECTIONS - ACCESS DRIVE
18 CF 31.	_ DROSS SECTIONS - ACCESS DRIVE
	CHOSS SECTIONS - ACCESS DRIVE
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24 OF 37	CROSS SECTIONS - ACCESS DRIVE
	CROSS SECTIONS - PAD
	CROSS SECTIONS - PAD
	CROSS SECTIONS - PAQ
	CPCSS SECTIONS - PAD
29 07 57	PEGLAMATION PLAN
30 07 37	RECLANATION PLAN
	. RECLAMATION PLAN
	- EVACUATION ROUTE PLAN
	EVACUATION ROUTE PLAN - LISCH
	MOTES & DETAILS
25 OF 37	. DETAILS
36 07 37	. DETAILS
37 07 37	DETAILS

DESCRIPTION	ESTIMATED GUANTITY	UNITS
MELL PAD CUT (EXCLUDES TOPSOL)	44,107	CT
TOE KEY EXCAVATION	11,030	CY
WELL PAD FILL (EXCLUDES TOPSOL)	34,815	CA
WELL PAD TOPSOIL STRIPPING	2.56E	CY
WELL PAD TOPSON, STRIPPING WELL PAD FINISH GRADING	15.521	117
PLACEMENT TOPSOL	1,889	C+
GEOTEXTLE	10.547	SY
BASE ROCK: R3S 12" (ROCK PROVIDED BY QUARRY) PLACEMENT COST	628	TON
FINISH GRADE GRUSHER PUN 4" (ROCK PROVIDED BY DUARRY) PLACEMENT COST	2,344	TON
24" 0CRVS	(36)	U
ACCESS ROAD D	ATA	-
DESCRIPTION	ESTIMATED QUANTITY	UNITS
ACCESS ROAD CUT (EXCLUDES TOPSOIL)	9,438	C7
ACCESS ROAD FILL (EXCLUDES TOPSOL)	12,134	C.
TOE KET EXCAVATION	6,970	- 64
ACCESS HOAD FORSON STREPPING ACCESS ROAD FINISH GRADING	1,703	C1
ACCESS ROAD FINISH GRADING	13,914	57
PLACEMENT OF TOPSOL	1,546	0
OF O TEXTLE	6,801	27
BASE ROCK: R3S 12" (ROCK PROVIDED BY QUARRY) PLACEMENT COST	2,658	ton
FINISH GRADE CRUSHER RUN 4" (ROCK PROVIDED BY QUARRY) PLACEMENT COST	1,493	TON
BASE ROCK AASHTO #67 A" (ROCK PROVIDED BY QUARRYPLACEMENT COST	694	TON
FINISH CRADE CRUSHER RUN 1 5" (ROOK PROVINE) BY DUARRY) PLACEMENT COST	560	TON
BASE ROCK: R-3'S 6" (ROCK PROMOLD BY	500	TON
SUPERPAYE HAS BASE AS' TWO 25	520	TON
SUPERPAYE HAS BASE 45" TYPE 25 SUPERPAYE HAS BASE 1.5" TYPE 25	173	TON
AIR BROCE	1	EA
BASE ROCK: R-5'S (ACCESS DRIVE STONE TRENCH)	99	TON
12" DANETER CROSS PIPE	57	J
	54	U
TE" DIAMETER CROSS PIPE	35	- 3
POACSOE UNCERDRAIN	370	
CULVERT OUTLET/ROCK MPRON SUMP		LA
CULVERT OUTLET/ROCK APRON SUMP ROCK: R-55	5	70N
CULVERT OUTLET/ROCK APRON SUMP ROCK GEOTEXTILE ROADSIDE CHANNEL	16	57
	1,101	J
ROADSIDE CHANNEL ROCK: R-55		TON
EROSION & SEDIMENT CON		-99
M' SUPER SULT FENCE	5,592	5
FE.TUN SOCK (12") FE.TUN SOCK (18")	3,517	3
FILTUR SOCK (18")	526	J
	490	. 3
FILTER SOCK (32")	1,059	U
CHANNEL MATTING (NAG. P300)	409	SY
CHANNEL MATTING (NAG SC250)	792	54
ROCK FUTER DAM	3	EA
LEVEL SPREADER ADDITIONAL ITEM	3	EA
TRAFFIC CONTROL	1	LS.
CONSTRUCTION ENTRANCE	- T-	u
CONSTRUCTION FONCE	105	5
MOBILIZATION		LS
TRENCH SAFETY PLAN & PROTECTION		LE
SEEDING/MULCHING		
SEEDING, LIME, & FERTILIZER FLEXIERRA (ONLY 2:1 SLOPE, NO MATTING)	8.5	ACRES
FLEXTERNA (ONLY 2:1 SLOPE, NO MATTING)	6.4	ACRES.
SEED AND MULCHING -> HYDROSEEDING		ACRES.
UNDERORAIN ITE		
HYDROBLOB PLANKS	1069	· ·
HYDROPLANK TRANSITION BOX	1	EA.
SOUD SCHEDULE 40 PLASTIC PIPE	80	J
A" STIT. GATE VALVE 2'Y2' PURBER ANTI-SEEP COLLAR	2	EA
CLEARING AND GRUBBI		EA
CLEARING AND GRUBBING	IO LIEMS	46
CLEANING AND GRUSSING	3.6	AC

ENGINEER'S ESTIMATE OF QUANTITIES WELL SITE PAD DATA

\$102/22/ \$102/22/ \$102/30/8	/4/2016 PER 727/2016 PER 720/2016 PER /6/2016	74/2016 PER eV 72/2016 PER SWH 76/2016 PER SWH	7/4/2016 PER 8Y DEP COMMENTS /20/2016 PER SHI COMMENTS /20/2016 PER 8Y DEP COMMENTS /20/2016 PER 8Y DEP COMMENTS
	5 5 5 5	PER SHIN PER SHIN	FUR SHIR CO FUR SHIR CO FUR SHIR CO



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MEB MEB 26378 1610

TAYLOR CONSTANCE

DATE: 02/10/2016 SHEET NO _ 1 OF _ 37 DMG, NO. 087569006

STAKING FLAG LEGEND

BREEF

top of cuts

COLLINGE FILL TOP HOLE LOCATION

VERTICAL CUT & FILL AT PAD/POND/PIT CORNER OR COCE (PINK & HLACK STRIPE) LANTS OF DISTURBANCE

METICAL CUT & FLL AT CONTRING OF EDGE OF ACCESS DAVID COMMON & BLACK STREET

TOPSOL STOCKPILE LOCATIONS (DRANGE & MATE STRPE)

CULVERT CROSSING

CENTERUNE LEASE
BOAD
(LIME GREEN & CRANCE)



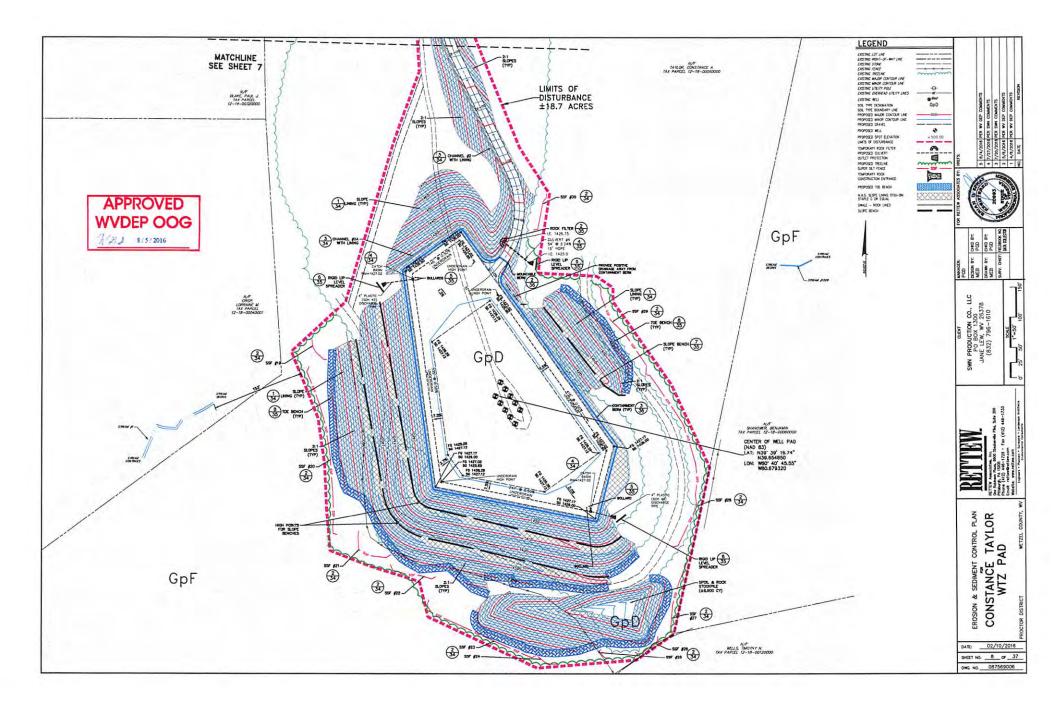
OPERATOR

PAD	10.6 ACRE
ROND	10.0 ALM
TOTAL	18.7 ACRE

PER LAND OWNER	ACRES_	
BLAKE PAUL L BLAKE SRENT PAUL ETAL DIONE, WALTER R. JR TAYLER, CONSTANCE A.	01 25 05	
TOTAL	18.7	

LIMITS OF DISTURBANCE

CAOS	10.6 ACRES	
TOTAL	18.7 ACRES	
PER LA	NO OWNER	ACRES
BLAKE BLAKE DIONE TAYLOR	WA: TEN B S	01 25 05



EROSION AND SEDIMEN CONSTANCE TAY PROCTOR DISTRICT, WETZEL (

GENERAL NOTES

- THE BOUNDARY AND TOPOGRAPHIC SURVEY FOR THE PROJECT AREA WERE PERFORMED BY RETIEW ASSOCIATES IN JULY 2011, UPDATED SEPTEMBER 2013 AND NOVEMBER 2015.. PROPERTY BOUNDARIES, LANDOWNER INFORMATION AND ROAD NETWORKS SHOWN ON THIS PLAN ARE BASED ON AVAILABLE COUNTY GIS DATA. EMSTING STRUCTURES, TREE LINES AND ROADWAYS HAVE BEEN LOCATED PER AVAILABLE ONLINE ARRIAL PHOTOGRAPHY.
- THE HORIZONTAL DATUM IS WEST VIRGINIA STATE PLANE, NORTH AMERICAN DATUM 1983 (NAD 83), NORTH ZONE. THE VERTICAL DATUM IS WEST VIRGINIA STATE PLANE, NORTH AMERICAN VERTICAL DATUM 1988

- 83), NORTH ZONE.

 THE VERTICAL DATUM IS WEST VIRGINIA STATE PLANE, NORTH AMERICAN VERTICAL DATUM 1988

 (NAVO 88) WHICH ORIGINATES FROM FIELD RUN TOPOGRAPHIC SURVEY.

 A WELLANDS SURVEY WAS PERFORMED BY RETIEWA SSOCIATES IN JULY 2011, OCTOBER 2011

 AND SEPTEMBER 2013 AND NO WELLANDS OR SENSITIVE RESOURCES WERE FOUND WITHIN THE

 PROJECT AREA.

 PROJECT AREA.

 THE CONTROLOR IS RESPONSIBLE FOR CESTAMING PROR TO CONSTRUCTION ALL HECESSARY

 CONSTRUCTION PERMITS REQUIRED BY FEDERAL STATE AND LOCAL GOVERNMENT ACENCES.

 THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND

 REQULATIONS, NICLIDING ALL SAFETY REQUIREMENTS.

 SWA PRODUCTION CO, LLC RESERVES THE RIGHT TO ACCEPT OR REJECT ANY AND ALL BIOS ATT

 ITS DISCRETION. ALL WORK WILL BE PERFORMED UPON AND SUBJECT TO THE TERMS AND

 CONDITIONS OF SWA PRODUCTION CO, LLC'S MASTER SERVICE AGREEMENT EXECUTED BETWEEN

 THE COMPANIES. THIS IS A LUMP SUM BID. SHOULD CONTRACTOR UNDERESTIMATE,

 CONTRACTOR SHALL PROTUDED ADDITIONAL LABOR AND MATERIALS TO COMPLETE THE WORK AT

 NO COST TO SWA PRODUCTION CO, LLC. ALL MEASUREMENTS ARE ESTIMATES GIVEN FOR

 DRAWNINGS PROVIDED.

 THE CONSTRUCTION START DEADLINE IS BEING PROVIDED AS THE DATE SWA PRODUCTION CO.

 LLC MAY LOSE ITS RIGHTS TO COMMENCE WORK UNDER THIS BID IS NOT TIMELY COMMENCED. BY

 SUBMITTION THIS BID. CONTRACTOR IS RESPONSIBLE TO COMMENCE THE WORK AT ON THE PROFOSED

 WELL, IF THE WORK PROVIDED FOR UNDER THIS BID IS NOT TIMELY COMMENCED. BY

 SUBMITTION THIS BID. CONTRACTOR IS AGREEMEN TO COMMENCE THE WORK PROVIDED FOR HEREIN

 MAY CAUSE DAMAGES TO SWA PRODUCTION CO.

 LLC MAY LOSE ITS RIGHTS TO COMMENCE WORK UNDER THIS BID IS NOT TIMELY COMMENCED. BY

 SUBMITTION THIS BID. CONTRACTOR IS AGREEMEN TO COMMENCE THE WORK PROVIDED FOR HEREIN

 MAY CAUSE DAMAGES TO SWA PRODUCTION CO.

 LLC MAY LOSE ITS RIGHTS TO COMMENCE THE WORK PROVIDED FOR HEREIN

 MAY CAUSE DAMAGES TO SWA PRODUCTION CO.

 LE FOR WHICH CONTRACTOR IS ADDRAFTED THE ADDRAFT OF THE WORK TO TIMELY COMMENCED. BY

 SUBMITTION THIS BID. CONTRACTOR IS AGRE

- WELL, IF THE WORK PROVIDED FOR LUNGER THIS BID IS NOT TIMELY COMMENCED. BY SUBMITING THIS BID, CONTRACTOR IS AGREENED TO COMMENCE THE WORK PROVIDED FOR HEREIN MAY CAUSE DANAGES TO SAMP PRODUCTION CO. LLC FOR WHICH CONTRACTOR SHALL BE HERE CONTRACTOR. IS RESPONSIBLE FOR MEETING ALL PROJECT BONDION REQUIREMENTS WHEN CONSTRUCTION FOR SWIP PRODUCTION CO. LLC SHALL INCLUDE A MINIMUM 1-YEAR WARRANTY OF PERFORMANCE.

 11. ISHALL BE THE RESPONSIBILET OF THE CONTRACTOR TO PREVENT ANY DAMAGE TO PRIVATE PROPERTY, PROMOE ACCESS TO ALL DRIVES DURING CONSTRUCTION, NOTIFY UTILITY COMPANIES AND VERTY LOCATION OF ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION, NO PROTECT PROPERTY, PROMOE ACCESS TO ALL DRIVES DURING CONSTRUCTION, NOTIFY UTILITY COMPANIES AND VERTY LOCATION OF ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION, AND PROTECT THE CONTRACTOR AND SHALL CONFORM TO THE LATEST MANUAL ON INFORM TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO THE LATEST MANUAL ON INFORM TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO THE LATEST WANUAL ON INFORM TRAFFIC CONTROL DURING CONSTRUCTION SHALL REPORT AND SHALL CONFORM TO THE ACCESS SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL ASSOCIATED TO SHALL SHOW THE PROJECT. THE CONTRACTOR SHALL SHOW THE PROJECT. THE CONTRACTOR SHALL SHOW THE ACCESS THE SHALL SHAPE THE SHALL SHALL SHAPE CONTRACTOR SHALL ASSOCIATED SHALL SHAPE CONTRACTOR SHALL SHAPE SHAPE CONTRACTOR SHALL SHAPE SHAPE



STAKING FLAG LEGEND

TOP OF CUTS TOES OF FILL (ORANGE) TOP HOLE LOCATION VERTICAL CUT & FILL AT PAD/POND/PIT CORNER OR EDGE (PINK & BLACK STRIPE) LIMITS OF DISTURBANCE (BLUE & WHITE STRIPE) VERTICAL CUT & FILL AT CENTERLINE OR EDGE OF ACCESS DRIVE (ORANGE & BLACK STRIPE) TOPSOIL STOCKPILE LOCATIONS (ORANGE & WHITE STRIPE) CENTERLINE OF DITCH & BOTTOM OF SEDIMENT TRAPS



LIMITS OF DISTURB.

18.7 ACRES

IT CONTROL PLAN LOR WTZ PAD COUNTY, WEST VIRGINIA



SOILS CLASSIFICATION

GoD: GILPIN PEABODY COMPLEX, 15 TO 25% SLOPES GDE: GILPIN PEABODY COMPLEX, 35 TO 70% SLOPES

CUT & FILL

-	PAD SITE	DRIVE	SITE
CUT (SOIL)	+37,548 CY	+11,372 CY	+48,920 CY
10% COMPACTION (SOIL)		
	- 3,755 CY	- 1,137 CY	- 4,892 CY
CUT (ROCK)	+ 7,786 CY	+ D CY	+ 7,785 CY
15% SWELL (ROCK)	+ 1,168 CY	+ 0 CY	+ 1,168 CY
FILL	-19.677 CY	-10.177 CY	-29.854 CY
NET	+23,070 CY	+ 58 CY	= 23,128 CY
STONE	+ 4,183 CY	+ 3,602 CY	= 7,785 CY
TOPSOIL	+ 1,802 CY	+ 2,095 CY	= 3,897 CY

NOTES:

1. THE TOPSOIL DEPTH FOR THE ACCESS DRIVE IS 0.5" (STA. 0+00 TO 21+00) AND 6" (21+00 TO 32+00). THE TOPSOIL DEPTH FOR THE PAD IS 3.3".

2. THE CUT & FILL SIMMARY CALCULATIONS PRESENTED ON THIS PLAN ARE FOR INFORMATIONAL PURPOSES ONLY. IT SHALL BE THE CONTRACTORS RESPONSEILTY TO VERIFY EXSTING GRADES AND VERIFY EARTHWORK VOLUMES, METHODS AND PROCEDURES, ANY ISSUES ARE TO BE BROUGHT TO THE ENGINEER'S AND OWNER'S ATTENTION PRIOR TO COMMENCEMENT OF WORK.

LIST OF DRAWINGS

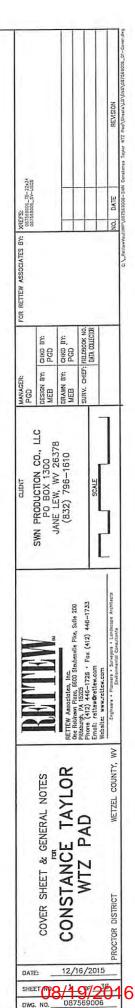
LIST	Ul	DIAMINOS
		, COVER SHEET & CENERAL NOTES
2 OF 36.		. OVERALL SITE PLAN
3 OF 36.		. ENLARGED LAYOUT PLAN
4 OF 35.		. ENLARGED LAYOUT PLAN
5 DF 36.		. ENLARGED LAYOUT PLAN
6 OF 35.		, EROSION & SEDIMENT CONTROL PLA
7 OF 36.		. EROSION & SEDIMENT CONTROL PLA
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CALL BEFORE

Dial 811 or 800.245.4848 12-17-15

AT LEAST 48 HOURS, BUT NOT MORE THAN 10 WORKING DAYS (EXCLUDING WEEKENDS AND HOLIDAYS), PRIOR TO TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THESE ACTIVITIES SHALL CONTACT MISS UTILITY OF WEST VIRGINIA AT B11 OR 1-800-245-4848.

DATE: 03/04/2015 TICKET #: 1506308695



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