

#### west virginia department of environmental protection

Office of Oil and Gas 601 57<sup>th</sup> Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

www.dep.wv.gov

WELL WORK PERMIT

Re: Permit approval for

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.

Chief

Operator's Well Number: Farm Name: U.S. WELL NUMBER:

Date Issued:

Promoting a healthy environment.

API N	umber	:					
710	47	1	0	3	02	9	0 4

## **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. Failure to adhere to the specified permit conditions may result in enforcement action.

#### **CONDITIONS**

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

## **PERMIT CONDITIONS**

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

# 4710302904 A

NO. 47- <u>103</u>	- 02904	
OPERATOR W	VELL NO. SMITH 1H	
Well Pad Nar	me: SMITH	

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

	w Martinsville
Operator ID County District Qua	adrangle
2) Operator's Well Number: SMITH 1H Well Pad Name: SMITH	
3) Farm Name/Surface Owner: Smith, Sonny & Charlotte Public Road Access: Wetzel County Ro	oute 22
4) Elevation, current ground: 1321 Elevation, proposed post-construction: 1321	
5) Well Type (a) Gas × Oil Underground Storage Other	
(b) If Gas Shallow X Deep	<del></del>
Horizontal X	
6) Existing Pad: Yes or No yes	DAH
7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s): Marcellus, 6,700', 56', 2,500 & 3,000 psi	1071
8) Proposed Total Vertical Depth: 6,700'	
9) Formation at Total Vertical Depth: Marcellus	
10) Proposed Total Measured Depth: 11,041'	
11) Proposed Horizontal Leg Length: 3,272'	
12) Approximate Fresh Water Strata Depths: 100	
13) Method to Determine Fresh Water Depths: Noticeable flow from flowline or when having to 14) Approximate Saltwater Depths: 2,174	o start soaping
15) Approximate Coal Seam Depths: 1,017	
16) Approximate Depth to Possible Void (coal mine, karst, other): None Anticipated	
17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine?  YesNo X	
(a) If Yes, provide Mine Info: Name:	
Depth:	
Seam:	
Owner:	

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Well: Smith #1H State: West Virginia County: Wetzel District: Magnolia Prospect: Mary

#### STONE ENERGY - PROPOSED HORIZONTAL

Revision: 15-Mar-13

Permit Number: 47-103-0 Permit Issued:

As Built Ground Elevation: 1321' Kelly Bushing: 18'

> Spud Date: TD Date: Rig Release Date:

Location: Surface: North = 4,388,542 East = 516,226 (UTM NAD 83) PBHL: North = 4,389,374 East = 515,178 (UTM NAD 83) PTD: 11300' MD / 6690' TVD

HOLE	FILOT HOLE FORMATION TOPS	WELLBORE DIAGRAM	CASING & CEMENTING DATA DIRECTIONAL DATA	MW & FLUID TYPE	HOLE DEV.
24" Hole then Driven	40' KB (22' B		CONDUCTOR PIPE		Vertic
17-1/2" Hole	Shallowest FW 80° TVI Pittsburgh Coal 1109° I Deepest FW 1114° I 1280° I	VD VD	20" x 3/6" wall L/S PE @ 40" (set in bedreck & grouted to surface)  SURFACE CASING	Air / Mist	Vertic
12-1/4" Hole	Salt Water Little Lime 2187 T Big Lime 2217 T Big Injun Sandstone Base of Big Injun 2417 T	VD VD VD	13-3/8" 54.5# J-55 STC @ 1280" MD/TVD Set through fresh water zones Set through coal zones Cemented to surface	Stiff Foam	
	Berea Sandstone 2787 T Gordon Sandstone 3037 T	vo i	INTERMEDIATE CASING 9-5/8* 36.0# J-55 LTC @ 2600* MD/TVD Set through potential saft water zones Set below base of Big Injun Cemented to surface		Verti
8-3/4" Hole				Air / Dust	
5-3/4" Hole	Rhinestreet Shale 6027' T Cashagus Shale 6380' T Middlesex Shale 6492' T	/D //D	P @ 5971' TVD	WBM In Curve	
	West River Shale 6611' T Geneseo Shale 6577' T Tully Limestone 6599' T Hamilton Shale 6637' T	70	DW13		
-3/4" Hole in Lateral	Marcellus Shele 6663' T	VD.		WBM in Lateral	~90
	Cnondaga Limestone 6719' T	/D	Landing Point (LP) @ 7445' MD / 6690' TVD -90' angle -331' azimuth	TD @ 11300" MD / 6690" TVD PRODUCTION CASING 5-1/2" 20.0# P-110 CDC @ 11300" MD Top of Gement @ 1600" (-1000" inside 9-5/8")	

# Office of Cil and Gas RECEIVED

Environmental Protection WV Department of 2017 SEP 2.5

WW-6B (04/15)

API NO. 47- 103	_ 02904		
OPERATOR W	ELL NO.	SMITH 1H	
Well Pad Nam	e: SMITH	4	

18)

## **CASING AND TUBING PROGRAM**

TYPE	Size (in)	<u>New</u> <u>or</u> <u>Used</u>	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	LS	94.1	94'	94'	40- CTS
Fresh Water	13.375"	New	J55	54.5	1,300'	1,300'	1,150- CTS
Coal	13.375"	New	J55	54.5	1,300'	1,300'	1,150- CTS
Intermediate	9.625"	New	J55	36.0	2,579'	2,579'	700Lead - 386 Tail CTS
Production	5.5"	New	P110	20.0	11,032'	11,032'	2364
Tubing	2.375"	New	J55	4.7		6,500'	N/A
Liners	N/A					-,	1,000

DMH 10-3-17

TYPE		Wellbore	<u>Wall</u>	Burst Pressure	Anticipated	Cement	Cement
	Size (in)	Diameter (in)	Thickness (in)	(psi)	Max. Internal Pressure (psi)	Type	Yield (cu. ft./k)
Conductor	20"	24"	0.375"	N/A	17 psi	Type 1	1.18
Fresh Water	13.375"	17.5"	0.380"	2,730 psi	2160 psi	Class A	1.20
Coal	13.375"	17.5"	0.380"	2,730 psi	2160 psi	Class A	
Intermediate	9.625"	12.25"	0.352"	3,520 psi	2814 psi	Class A	
Production	5.5"	8.75"	0.361"	12,360 psi	10112 psi	Class A	
Tubing	2.375"	N/A	0.190"	7,700 psi	•	N/A	N/A
Liners						, 2,00	

#### **PACKERS**

Kind:		
Sizes:		
Depths Set:		

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WV Department of
Environmental Protection

OPERATOR WELL NO. SMITH 1H
Well Pad Name: SMITH

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

Well has been drilled to TD, propose to perforate and fracture the Marcellus and turn in to production.

Dat 107-17

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals (including 15% Hydrochloric acid, gelling agent, gel breaker, friction reducer, biocide, and scate inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is expected to be approximately 10000 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 350,000 barrels of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 400,000 pounds of sand per stage.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): no additional
- 22) Area to be disturbed for well pad only, less access road (acres): no additional
- 23) Describe centralizer placement for each casing string:

Surface casing had bow spring centralizers placed on joints 21, 24, 27 and 29. Intermediate casing had bow spring centralizers placed on joints 10, 13, 16, 19, 22, 25, 28 and 31. Production casing had rigid spiral centralizers placed on every fourth joint beginning with joint 1 to joint 196. Ran a total of 50 rigid spiral centralizers. Ran bow spring centralizers from joint 204 to joint 252 on everyeigth joint. A total of 7 bow spring centralizers were run.

24) Describe all cement additives associated with each cement type:

Fresh water/coal string will be cemented using a slurry of Class A cement with 0.10 lb/sx Cello flake, 0.20% BWOB Anti-foam, and 1.0% BWOB CaCl2. Intermediate string will be cemented using a lead and tail slurry; Lead is Class A cement with 0.20 gps accelerator, 0.07 gps dispersant, 0.10 gps Anti-Foam, 4.0% BWOB Expanding Agent, and 0.50% BWOB Gas Control Agent. Tail is Class A Cement with 1.0% BWOB CaCl2, 0.1 lb/sx Cello-Flake, and 0.2% BWOB Anti-Foam. Production string will be cemented using a Lead and Tail Sturry; Lead is Class A cement with 0.10 gps dispersant, 0.10 gps Anti-foam, 0.05 gps Retarder, 4.0% BWOB Expanding Agent, and 0.50% BWOB Gas Control Agent. Tail is Class A cement with 0.90% BWOB Dispersant, 0.30% BWOB Fluid loss, 0.20% BWOB Anti-Foam, and 0.60% BWOB Retarder.

25) Proposed borehole conditioning procedures:

Fresh Water/Coal section will be done by circulating air through the drill string at TD between 30 and 60 minutes or until the well bore is clean of cuttings.

Intermediate section will be done by circulating air and/or stiff foam through the drill string at TD between 30 and 120 minutes or until the well bore is clear of cuttings.

Production section will be done by circulating drilling fluid through the drill string at TD between 60 to 720 minutes until the shakers are clear of cuttings and drill string pulls free of bottom.

\*Note: Attach additional sheets as needed.

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#### STONE ENERGY - AS DRILLED TOP HOLE with NUDGE

Revision: 8-Jul-14

 Well:
 Smith #1H TOP HOLE
 (AFE# 2014-0001T)
 Permit Number:
 47-103-02904

 State:
 West Virginia
 Permit Issued:
 7/31/2013

 County:
 Wetzel
 Ground Elevation:
 1321'

 District:
 Magnolia
 47 10 30 29 04
 Kelly Bushing:
 15'

Prospect: Mary
Location: Surface: (N) 420,251' (E) 1,630,827' State Plane WV North NAD 27 Spud Date: 11/9/2013

PBHL: (N) 420,084' (E) 1,630,354' State Plane WV North NAD 27 TD Date: 11/16/2013

HOLE SIZE	FORMATIC TOPS	N	WELLBORE DIAGRAM	CASING & CEMENTING DATA	MW & TYPE	HOLE DEV.
Pre-Set						Man
Conductor	94' K	B (79' BGL)		CONDUCTOR PIPE	opported)	Vert
17-1/2" Hole	Shallowest FW Pittsburgh Coal	100' TVD 1017' TVD		20" @ 94' (set in bedrock a	s cemented)	
(Hammer)	Deepest FW	1120' TVD 1300'		9-5/8" TAM CAP Packer ( SURFACE CASING	@ 1199' MD/TVD Air / Mist	0.2°
_	RED BEDS	1000	2	13-3/8" 54.5# J-55 STC @ Set through fresh we Do not set deeper th	1300' MD/TVD ater and coal zor	
	Little Lime	2163' TVD		Cemented to surfac		
12-1/4" Hole	Salt Water	2174' TVD				
(Rock Bit)	Big Lime	2193' TVD				
	Big Injun	2293' TVD				
	Base of Big Injun	2393' TVD 2579'		INTERMEDIATE CASING	Stiff Foam	0.8"
	Berea	2762' TVD		9-5/8" 36.0# J-55 LTC @ 2 Set through potentia Set below base of B Cemented to surface	al salt water zone lig Injun	es
8-3/4" Hole			1 1			
Nudge (Rock Bit)	Gordon	2983' TVD		Performed SLANT due to ant	i-collision conc	erns:
8-3/4" Hole to KOP (Hammer)						
		5751' TVD	_		Air / Dust	11.9°
	Rhinestreet Base	6360' TVD	тс	OP HOLE TD @ 5792' MD / 574 (~130' above planned KOP)	Office of Oi	VED I and G
	Middlesex	6517' TVD				
	West River	6534' TVD			SEP 2	2017
	Geneseo Shale	6731' TVD				
	Tully LS	6761' TVD			WV Depa	rtment
	Hamilton Shale	6786' TVD		r.	nvironment	al Prote
	Marcellus Shale	6821' TVD		E	MIGHINGIT	Cal I Tore
	Onondaga LS	6871' TVD				

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# State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

API <u>47</u> - 103 - 02904 County Wetzel	District Magnolia	
Quad New Martinsville Pad Name Smith		
Farm name Smith, Sonny and Charlotte	Well Number #1H	
Operator (as registered with the OOG) Stone Energy Cor	rporation	
Address 1300 Fort Pierpont Dr Suite 201 City Mo	organtown State WV Zip 26508	
As Drilled location NAD 83/UTM Attach an as-drilled Top hole Northing 4.388,542  Landing Point of Curve Northing 4.388,529  Bottom Hole Northing 4.389,376	led plat, profile view, and deviation survey  Easting 516,226  Easting 515,664  Easting 515,178	
Elevation (ft) 1,321 GL Type of Well	□New ■ Existing Type of Report ■Interim □Final	
Permit Type   Deviated   Horizontal   Horizon	ntal 6A □ Vertical Depth Type □ Deep ■ Shallow	
Type of Operation	□ Plug Back □ Redrilling □ Rework ■ Stimulate	
Well Type □ Brine Disposal □ CBM ■ Gas □ Oil □ Sec	condary Recovery	
Type of Completion ■ Single □ Multiple Fluids Produ	uced   Brine   Gas   NGL   Oil   Other	
Drilled with   Cable Rotary		
· · · · · · · · · · · · · · · · · · ·		
Drilling Media Surface hole ■ Air □ Mud ■ Fresh Wa		
Production hole  Air  Mud  Fresh Water  Brin	ne	
Mud Type(s) and Additive(s)  Saturated salt mud which includes Caustic Soda, Ba	arite, Lime, New-Drill, Perma-Lose HT, Xan-Plex D, X-Cide 102,	
Soda Ash, and Sodium Chloride	and, Line, New Brin, Ferrida 2000 FFF, Nati Field B, A Grae 102,	
	<del></del>	
Date permit issued 7/31/2013 Date drilling comm		
Date completion activities began Not Yet Completed	Date completion activities ceased Not Yet Completed	
Verbal plugging (Y/N)N Date permission grante	ed Granted by	
Please note: Operator is required to submit a plugging applic	Office of Cil and C	Gas
Freshwater depth(s) ft100	Open mine(s) (Y/N) depths N SFP 2.5 2017	
Salt water depth(s) ft 2,174 w/Oil Show	Open mine(s) (Y/N) depths N  Void(s) encountered (Y/N) depths N	st Of
Coal depth(s) ft1,017		15
Is coal being mined in area (Y/N) N	Environmental Pro	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

# 47 10 30 29 04

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API 47- 103	02904	Farm na	me_Sr	mith, Sonny	and Charl	otte	Well nu	umber_#1H	I	
CASING STRINGS	Hole Size	Casing Size	De			ide /ft		sket oth(s)		ent circulate (Y/ N) de details below*
Conductor	24"	20"	94	4' N	lew L	S - 94.1 pp	ıf			N - GTS
Surface	17.5"	13.375"	1,3	100'	lew J	5 - 54.5 pp	of 12	21' & 203'		Y - CTS
Coal	17.5"	13.375"	1,3	300 N	lew .	55 - 36 ppf	12	21' & 203'		Y - CTS
Intermediate 1	12.25"	9.625"	2,5	79' N	lew J	55 - 36 ppf	f			Y-CTS
Intermediate 2										
Intermediate 3										
Production	8.75"	5.5"	11,0	032' N	lew P	110 - 20 pp	of		N - TOO	@ 1,682' Calculated
Tubing										
Packer type and de	epth set	AM CAP Inflatabl	e Packe	er on 9.625" Ca	asing @ 1,199					
Comment Details suface on the 5.5" of	Circulated 30 bbls casing string. TOC on 5	ement to surface on 15		sing string. Circula	ted 13 bbls ceme	nt to surface o	on the 9.62	5" casing string.	Did not ci	rculate any cement to
CEMENT	Class/Type	Number		Slurry	Yield	Vol	lume	Cemen	ıt	woc
DATA	of Cement	of Sacks		wt (ppg)	( ft <sup>3</sup> /sks)	<u>(f</u>	<u>t¹)</u>	Top (M	D)	(hrs)
Conductor	Type 1	34		15.6	1.18	4	40	Surfac	æ	24.0
Surface	Class "A"	958		15.6	1.20	1,	150	Surfac	æ	8.0
Coal	Class "A"	958		15.6	1.20	1,	150	Surfac	æ	8.0
Intermediate 1	Lead-Flex Seal Tail-Clas	Lead-547 Ta	il-324 L	.ead-15.4 Tail 15.6	Lead-1.28 Tail-	.19 Lead-70	0 Tail-386	Surfac	æ	12.0
Intermediate 2										
Intermediate 3						_				
Production	VariCem	1,970		15.2	1.2	2,	364	1,682' Calc	culated	7.0
Tubing										
Drillers TD (ft	11,041 MD / 6,700 T	<b>V</b> D		Log	gers TD (ft)	N/A				
•	tion penetrated				g back to (ft)			-		
Plug back pro	cedure									
Kick off depth (ft) 5.922 MD / 5.875 TVD  Check all wireline logs run							:			
Well cored	Yes  No	Convention	nal	Sidewall		Were cut	tings co	ollected =	Yes 🗆	No
DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING  joints 21, 24, 27 and 29. Intermediate casing had bow spring centralizers placed on joints 10, 13, 16, 19, 22, 25, 28 and 31.  Production casing had rigid spiral centralizers placed on every fourth joint 10 to joint 10 to joint 10. Ran a total of 50 rigid spiral centralizers. Ran bow spring centralizers from joint 204 to joint 252										
	A total of 7 bow spring o		nt beginnir	ng with joint 1 to join	196. Ran a total o	50 rigid spiral	centralizers	. Kan bow spring	centralizers	from Joint 204 to Joint 252
WAS WELL COMPLETED AS SHOT HOLE										
WAS WELL COMPLETED OPEN HOLE? □ Yes ■ No DETAILS							SEP 2 5 2017			
WERE TRAC	ERS USED a	Yes  No	TYP	E OF TRACE	ER(S) USED					V Department of
									Frwire	<del>enmental P</del> rotecti

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API 47- 103 \_ 02904

Farm name Smith, Sonny and Charlotte Well number #1H

#### PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
				-	
<u> </u>					
		_		<u> </u>	
		-			

Please insert additional pages as applicable.

#### STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbis)	Amount of Nitrogen/other (units)
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Please insert additional pages as applicable.

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API 47- 103	02904		_ Farm	name_S	mith, S	Sonny an	d Cha	rlotte	Well i	number <u>#</u>	1H			
PRODUCING F	ORMATI	ON(S)		DEPTH	łS									
Not Yet Complet						TVD			MD					
			<del>-</del>											
			_											
lease insert add	litional pa	ges as ap	plicable.											
GAS TEST	□ Build up	□ Dra	awdown	□ Oper	ı Flow		OIL	ΓEST □	Flow c	Pump				
HUT-IN PRES						om Hole					TES	r.	hrs	
PEN FLOW	Gas	our ruce .	Oil		NGL	,,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							111.3	
1 ENTLOW		mcfpd				bpd			GAS N				Pilot	
·						_								
ITHOLOGY/	ТОР		BOTTOM		OP	BOTTO								
ORMATION	DEPTH IN NAME TV		PTH IN FT TVD		i in ft id	DEPTH IN			ROCK TYI				TITYAND GAS, H₂S, E	TC)
	0		110	1	0	I MD	T	TILOTT	LOID (TKL	SHWAILN	, DI	iive, Oie,	UAS, 1125, E	<u> </u>
e Attached Sheet														
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lease insert add	litional pag	ges as ap	plicable.											
rilling Contrac					(horizor	ntal)								
ddress 2034 Ma	rtins Branch	Rd /9303	New Trails	Drive	City	Mount Mo	rris / Th	e Woodlan	ds State	PA / TX	Zip	25312 /	77381	
ogging Compa	ny Scientif	fic Drilling	and Schlu	umbergei	r									
ddress 124 Vist	a Drive / 117	78 US HW	Y 33 East		City	Charleroi	/ Westo	n	State	PA/W	Zip	15022 /	26452	
	Schl	umberger	•								-			
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duicss					_ City				State		. <b>2</b> .p			
timulating Con	—						_				~.			
ddress lease insert add	litional na	100 ac an	nlicable		_ City				State		Zip		ECEIVE	Ð
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Completed by							_ 1	elephone	304-225	-1633		OHICE	<del></del>	
Signature					Γitle <u></u>	ompletions I	Enginee	г		Date		ç	EP 25	5011

#### **EQT Production**

**Hydraulic Fracturing Monitoring Plan** 

Pad ID: Smith

**Wetzel County, WV** 

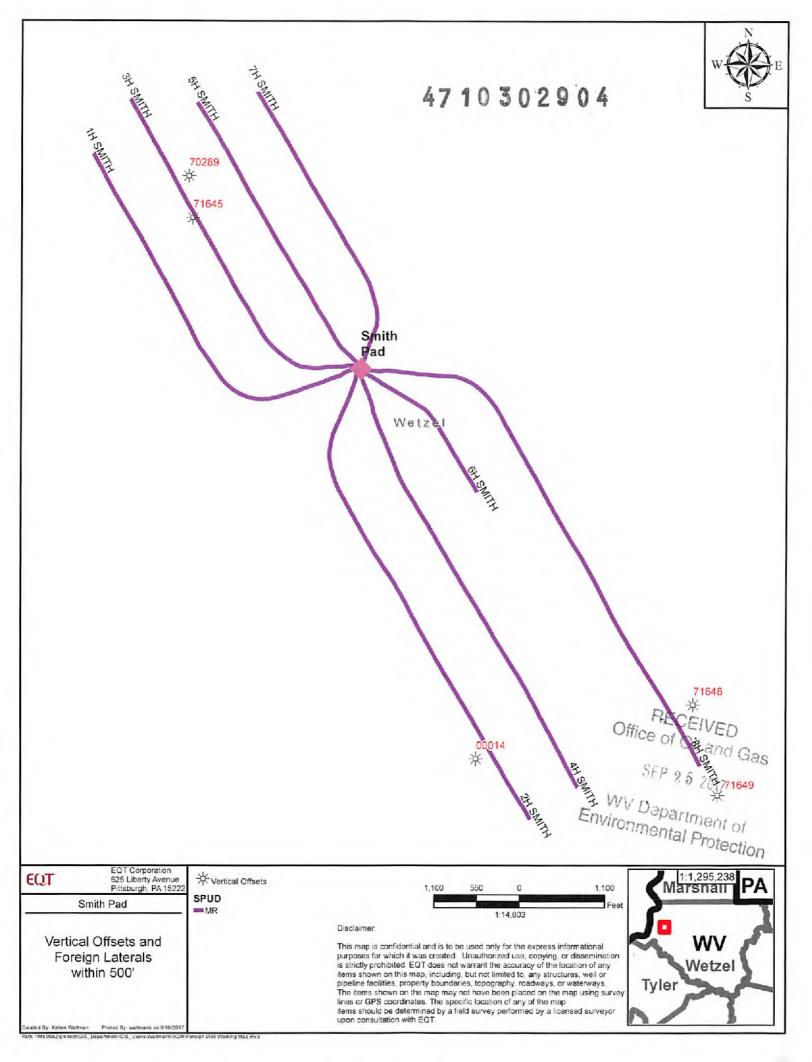
9/19/17

Office of Cil and Gas

SEP 2 5 2017

WV Department of
Environmental Protection

Page 1 of 2



#### **Purpose**

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Wetzel County, WV prior to hydraulic fracturing at the following EQT wells on Smith pad: Smith 1H, Smith 3H

Due to the requirements under 35CSR8 5.11, the permittee is required to review the area surrounding the proposed well pad so as to identify and evaluate potential conduits for unintended fracture propagation. A report is required to be submitted along with a well work permit application.

The plan is being implemented as an additional safety measure to be utilized in conjunction with existing best management practices and emergency action plans for the site. These additional measures include coordination with well operators of the timing and location of the hydraulic fracturing, establishment of measures well operators should implement, and assurance that the OOG is notified of the timeline, as well as any issues that may arise during fracturing.

#### 1. Communications with Well Operators

EQT, using available data (WV Geological Survey, WVDEP website, and IHS data service), has identified all known wells and well operators within 500 feet of this pad and the lateral sections that are known or could reasonably be expected to be within range of the fracture propagation. A map showing these wells along with a list of the wells and operators is included in **Attachment A**.

EQT will notify these operators of the hydraulic fracturing schedule for these wells, and coordinate with them throughout the fracturing process.

EQT will recommend to these operators at a minimum to:

- Inspect their surface equipment prior to fracturing to establish integrity and establish pre-frac well conditions
- 2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
- 3. Inspect or install master valves or other necessary equipment for wellhead integrity capable of a pressure recommended by EQT
- 4. Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomalies are identified

#### 2. Reporting

EQT will provide information relating to the hydraulic fracturing schedule, communication with other operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.

Office of Cil and Gas

SEP 25 2017

Environmental Protection

Page 2 of 2

Well ID Cc 47103702890000 47103000140000 47103716450000 47103716490000 47103716480000
Completion D Current Operator UNKNOWN 12/1/1929 LEATHERWOOD INCORPORATED UNKNOWN UNKNOWN 8/13/1925 UNKNOWN
Elevation Ele GR 790 GR GR GR 888 GR
Elevation Elevation Ref. Final Statu: Lat GR PSEUDO 39, 790 GR D&A 39, GR UNKWN 39, GR UNKWN 39,
.653 .631 .634
Lat Long 39.653169 -80.81888 39.632704 -80.805742 39.651717 -80.818692 39.631398 -80.794669 39.634591 -80.795796
Lat Long Permit Date 39.653169 -80.81888 39.632704 -80.805742 10/17/1929 39.651717 -80.818692 39.631398 -80.794669 39.634591 -80.795796 6/29/1925
Long Permit Date SPUD Date TD Formation No Detail Deepth Permit & 10 169 -80.81888  704 -80.805742 10/17/1929 11/11/1929 BIG INJUN /SMI 17 1958; 200014; 200014; 2
Environmental protection
Attachment A-Z

API Number	47 -	103	_	02904
Ope	rator's	Well No	. s	MITH 1H

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

#### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name EQT Production Company OP Code 306686	
Watershed (HUC 10) Tributary of of Doolin Run Quadrangle New Martinsvitte	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No	
Will a pit be used? Yes No V	
If so, please describe anticipated pit waste:  Will a synthetic liner be used in the pit? Yes No If so, what ml.?	
Will a synthetic liner be used in the pit? Yes No If so, what ml.?	
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection (UIC Permit Number 0014, 8462, 4037	
Reuse (at API Number <u>Verious</u> Off Site Disposal (Supply form WW-9 for disposal location)	,#
Other (Explain	-3-1
n/a	
Will closed loop system be used? If so, describe: n/a	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. n/a	
-If oil based, what type? Synthetic, petroleum, etcn/a	
Additives to be used in drilling medium? n/a	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etcn/a	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A	
-Landfill or offsite name/permit number? _n/a	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.  RECEIVED Office of Oil and Office of Oi	Gas
Company Official (Typed Name) Victoria J. Roark  001 11 20	17
Company Official Title Regional Land Supervisor	11
WV Department	
Subscribed and sworn before me this 222 day of Soften Do Y 2017	BCHON
DU LO O O CA TI I O O A TO O A NOTARY PUBLIC STATE OF WEST VIRGINIA	ET
My commission expires 4-7-2020 Entipaction of the property of	200

Form WW-9

D	ompany	•					
Proposed Revegetation Trea							
	Tons/acre or to corre	ct to pH 0.5					
Fertilizer type Granular 10-20-20							
	1/3	lbs/acre					
Mulch 2	***************************************	Tons/acre					
		Seed Mixtures					
Т	emporary	Perma	nent				
Seed Type	lbs/acre	Seed Type	lbs/acre				
KY-31	40	Orchard Grass	15				
Alsike Clover	5	Alsike Clover	5				
Annual Rye	15						
Maps(s) of road, location. p provided). If water from the acreage, of the land applicat	pit will be land applied, in tion area.	d application (unless engineered plans included limensions (L x W x D) of the pit, and	ling this info have beer dimensions (L x W), a				
provided). If water from the acreage, of the land applicate Photocopied section of invo	pit will be land applied, in tion area.	clude dimensions (L $x$ W $x$ D) of the pit, and	ling this info have beer dimensions (L x W), a				
Maps(s) of road, location. p provided). If water from the acreage, of the land applicate Photocopied section of invo	pit will be land applied, in tion area.	clude dimensions (L $x$ $W$ $x$ $D$ ) of the pit, and .	ling this info have beer dimensions (L x W), a				
Maps(s) of road, location, p provided). If water from the acreage, of the land applicate Photocopied section of invo	pit will be land applied, in tion area.	clude dimensions (L x W x D) of the pit, and	ling this info have beer dimensions (L x W), a				
Maps(s) of road, location, p provided). If water from the acreage, of the land applicate Photocopied section of invo	e pit will be land applied, in tion area.  Followed 7.5' topographic sheet	clude dimensions (L x W x D) of the pit, and	ling this info have beer dimensions (L x W), a				
Maps(s) of road, location, p provided). If water from the acreage, of the land applicate Photocopied section of invo	e pit will be land applied, in tion area.  Followed 7.5' topographic sheet	clude dimensions (L x W x D) of the pit, and	ling this info have beer dimensions (L x W), a				
Maps(s) of road, location, p provided). If water from the acreage, of the land applicate Photocopied section of invo	e pit will be land applied, in tion area.  Followed 7.5' topographic sheet	clude dimensions (L x W x D) of the pit, and	ling this info have beer dimensions (L x W), a				
Maps(s) of road, location, p provided). If water from the acreage, of the land applicate Photocopied section of invo	e pit will be land applied, in tion area.  Followed 7.5' topographic sheet	clude dimensions (L x W x D) of the pit, and	ling this info have beer dimensions (L x W), a				
Maps(s) of road, location, p provided). If water from the acreage, of the land applicate Photocopied section of invo	e pit will be land applied, in tion area.  Followed 7.5' topographic sheet	clude dimensions (L x W x D) of the pit, and	ling this info have beer dimensions (L x W), a				
Maps(s) of road, location, p provided). If water from the acreage, of the land applicate Photocopied section of invo	e pit will be land applied, in tion area.  Followed 7.5' topographic sheet	clude dimensions (L x W x D) of the pit, and	ling this info have beer dimensions (L x W), a				
Maps(s) of road, location, p provided). If water from the acreage, of the land applicat Photocopied section of invo  Plan Approved by:  Comments:	e pit will be land applied, in lion area.	clude dimensions (L x W x D) of the pit, and	ling this info have beer dimensions (L x W), a				
Maps(s) of road, location, p provided). If water from the acreage, of the land applicate Photocopied section of invo	e pit will be land applied, in lion area.	clude dimensions (L x W x D) of the pit, and	ling this info have beer dimensions (L x W), a				

CCT 11 2017

API No. 47 - 103 - OZJOA Operator's Well No. SMITH#1H

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

# CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name	STONE ENERGY CORPORATION			OP Code	494490923	
Watershed	Tributary of Do	olin Run	Quadrangle _	New Mar	tinsville	
Elevation	1,335'	_ County	Wetzel	District	Magnolia	
Description of antic	cipated Pit Waste:	The	ere will not be a waste pit	constructed on this we	ell site	
Do you anticipate u	sing more than 5,000	bbls of water to	complete the proposed v	vell work? Yes _ ✓	No	
Will a synthetic line	er be used in the pit?	N/A	If so, what mil.?	N/A		
Proposed Disposal	Reuse (at API	on njection ( UIC ) Number <u>Flowb</u> sal (Supply fort	Permit Number Hunter D lack will be stored in tanks ar m WW-9 for disposal loc	d re-used at other well sit		
If oil base.  Additives to be used  Will closed loop system  Drill cuttings disposed  If left in p	id, what type? Synthet id? See Attached WW-9 is stem be used? Both Top sal method? Leave in it and plan to solidify	ic, petroleum, e Addendum Hole and Horizon pit, landfill, rem what medium w	r, oil based, etc. Vertical setc. N/A  Ital drilling rigs will incorporate loved offsite, etc. Approviil be used? Cement, lin County Sanitary Landfill (SW	e the use of a closed loop ed and permitted of site la ne, N/A	system	DmH 4-23-13
on August 1, 2005, provisions of the pe or regulation can lea I certify u application form an the information, I b	by the Office of Oil au rmit are enforceable by ad to enforcement action and to enforcement action and to enforcement action and to enforcement there delieve that the inform formation, including the signature	nd Gas of the W y law. Violatio on. hat I have perse to and that, bas nation is true, a	s and conditions of the Colest Virginia Department ins of any term or conditions of any term or conditionally examined and an ed on my inquiry of those courate, and complete. Time or imprisonment.  Timothy P. M.	t of Environmental Pro on of the general pern on familiar with the i se individuals immedian I am aware that ther	otection. I understand to nit and/or other applical information submitted ately responsible for ob	that the ble law on this taining
			Land Coord			
Company Official T	itle		Land Coole	miator	Received Office of On 8.	Gas
Subscribed and swo	U. L. Ino	73 day	of april	, 20 L3  Notary Public	Office of O	IVED I and Gas
			mm	mmm	man Han	artment of

OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA (IV) DANIELLE L SNODERLY RR2 Box 248A, Fairmont, WV 26554 My Commission Expires May 18, 2021

OFFICIAL SEAL WY Department of NOTARY PUBLIC STATE OF WEST VIRGINIE NVI COmmental Protection

# 47 10 3 0 2 9 0 4API No. 47 - 103 - 629 04 Operator's Well No. - SMITH #1H

Property Boundary		Diversion 2	
Road		= Spring	$\rightarrow$
Existing Fence	xxxx	— Wet Spot	<b>"</b>
Planned Fence		Drain Pipe w/ size in inches(1	2)———
Stream	~ <del>}</del> ~ <del>}</del> ~ <del>}</del>		
Open Ditch	<del></del>	Waterway —	
Rock	<b>්</b> දුද්දූද්		
North	<b>↑</b> N	Artificial Filter Strip XXXXXXXXXXXXX	**************************************
Buildings	N .	Pit: Cut Walls	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Water Wells		Pit: Compacted Fill Walls	manus.
Drill Sites	<b>⊗</b> ⊕	Area for Land Application of Pit Waste	
Proposed Revegetation Treat	ment: Acres Disturbed	14.22 Prevegetation pH	
Lime 2.0	Tons/acre or to correct to	pH 6.5	
Facilian (10.20.20	or equivalent) 500 - 750		
•	•	ios/acte (500 los minimum)	
MulchU.5U to	0 0.75 TPA + Straw Tor	ns/acre	
		Seed Mixtures	
Ar	ea I	Area I	I
Seed Type	lbs/acre	Seed Type	lbs/acre
Marcelius Mix	100.0	Marcellus Mix	100.0
White or Ladino Clover	10.0	White or Ladino Clover	10.0
Orchard Grass	40.0	Orchard Grass	40.0
Winter Rye	50.0	Winter Rye	50.0
Attach: Drawing(s) of road, location, Photocopied section of invol	pit and proposed area for land a	application.	
Plan Approved by:			
Comments:			
			Received
			Office of Oil & Gas
Title: Oil + Gal I	nspe (h/	Date: 4-23-13	RECEIVED
Field Reviewed? (	/ ) Yes (	) No	Office of Oil and Gas
I fold Vestewen;			
			050 0 5 2017

SEP 2 5 2017



#### WW-9 ADDENDUM

#### **Drilling Medium Anticipated for This well**

- Vertical section of well bore, down to KOP, will be drilled on air and/or a combination of air and drilling soap.
- From KOP through the curve section and horizontal section of well bore will be drilled on a brine-water based mud system.

#### Additives to be Used While Drilling

- Common additives when air drilling: KCl (CAS No. 1302-78-9 & 14808-60-7), soda ash (CAS No. 497-19-8), shale stabilizer (CAS No 67-48-1 & 7732-1835), drilling soap (CAS No. 111-76-2), air hammer/motor lubricant.
- Common water based additives for mud drilling: NaCl (CAS No. 7647-14-5), KCl (CAS No. 7447-40-7), barite (CAS No. 13462-86-7 & 14808-60-7), starch (CAS No. 9005-25-8), PAC (CAS No. 9004-32-4), xanthum gum (CAS No. 11138-66-2), PHPA (CAS No. 64742-47-8), polysaccharide (CAS No. 11138-66-2), sulfonated asphaltic material (CAS No. 269-212-0 & 238-878-4), aluminum silicate (CAS No. 37287-16-4), gilsonite (CAS No. 12002-43-6), graphite (CAS No.14808-60-7 & 7782-42-5), shale stabilizer (CAS No. 67-48-1 & 7732-18-5), fluid loss control polymers (CAS No. 9004-34-6), viscosity control polymers (CAS No. 11138-66-2 & 107-22-2), soda ash (CAS No. 497-19-8), sodium bicarbonate (CAS No. 144-55-8), NaOH (CAS No. 1310-73-2, 7647-14-5, & 7732-18-5), lime (CAS No. 1305-62-0), gypsum (CAS No.778-18-9), citric acid (CAS No. 77-92-9), biocide (CAS No. 52-51-7 or 7732-18-5 + 67-56-1 + 141-43-5), CaCO<sub>3</sub> (CAS No. 471-34-1), cellulose fibers (CAS No. 14808-60-7), nut plug (CAS No. 9004-34-6 & 14808-60-7), cross-linking polymers (CAS No. 107-22-2 & 11138-66-2), other LCMs, surfactants (CAS No. 64-17-5), ROP enhancer/lubricant (CAS No. 8002-13-9), beads, corrosion inhibitor (CAS No. 7732-18-5), aluminum stearate (CAS No. 300-92-5), defoamer (CAS No. 246-771-9).

MSDS are available upon request.

Din19

Office of Oil and Gas

SEP % 5 2017



#### WW-9 ADDENDUM

#### **Drill Cuttings Disposal Method**

Closed loop drilling system will be incorporated. No waste pits will be constructed. All
drill cuttings are put through a drier system and hauled to and disposed of at approved
and permitted landfills.

#### Landfills or Offsite Names and Permit Numbers

Wetzel County Sanitary Landfill Rt. 1, Box 156A New Martinsville, WV 26155 SWF-1021 / WV01909185 Brooke County Sanitary Landfill Colliers, WV 26035 SWF-1013 / WV0109029

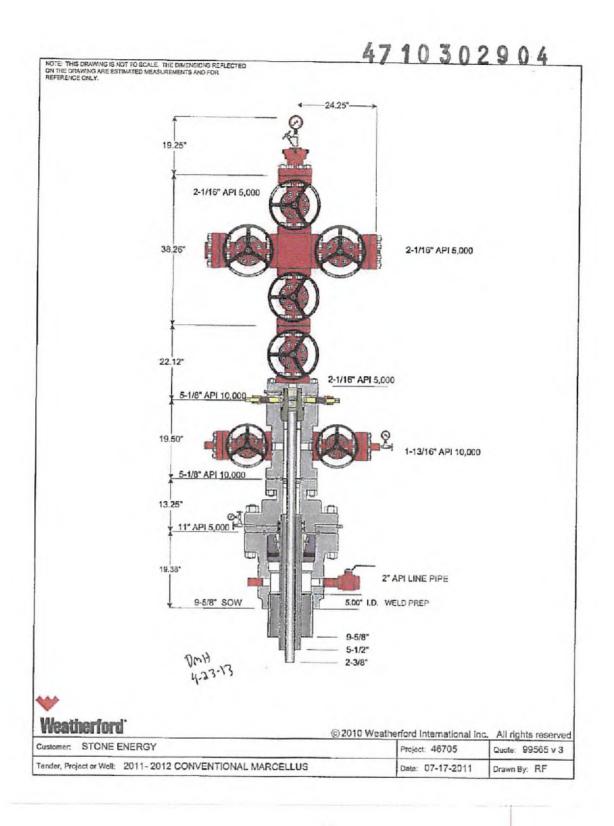
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#### **EQT Production Water plan**

## 4710302904

#### Offsite disposals for Marcellus wells

#### **CWS TRUCKING INC.**

P.O. Box 391 Williamstown, WV 26187 740-516-3586 Noble County/Noble Township Permit # 3390

#### LAD LIQUID ASSETS DISPOSAL INC.

226 Rankin Road Washington, PA 15301 724-350-2760 724-222-6080 724-229-7034 fax Ohio County/Wheeling Permit # USEPA WV 0014

#### TRI COUNTY WASTE WATER MANAGEMENT, INC.

1487 Toms Run Road
Holbrook, PA 15341
724-627-7178 Plant
724-499-5647 Office
Greene County/Waynesburg
Permit # TC-1009

#### **Waste Management - Meadowfill Landfill**

Rt. 2, Box 68 Dawson Drive Bridgeport, WV 26330 304-326-6027 Permit #SWF-1032-98 Approval #100785WV

#### **Waste Management - Northwestern Landfill**

512 E. Dry Road
Parkersburg, WV 26104
304-428-0602
Permit #SWF-1025 WV-0109400
Approval #100833WV

#### **BROAD STREET ENERGY LLC**

37 West Broad Street
Suite 1100
Columbus, Ohio 43215
740-516-5381
Washington County/Belpre Twp.
Permit # 8462

#### **TRIAD ENERGY**

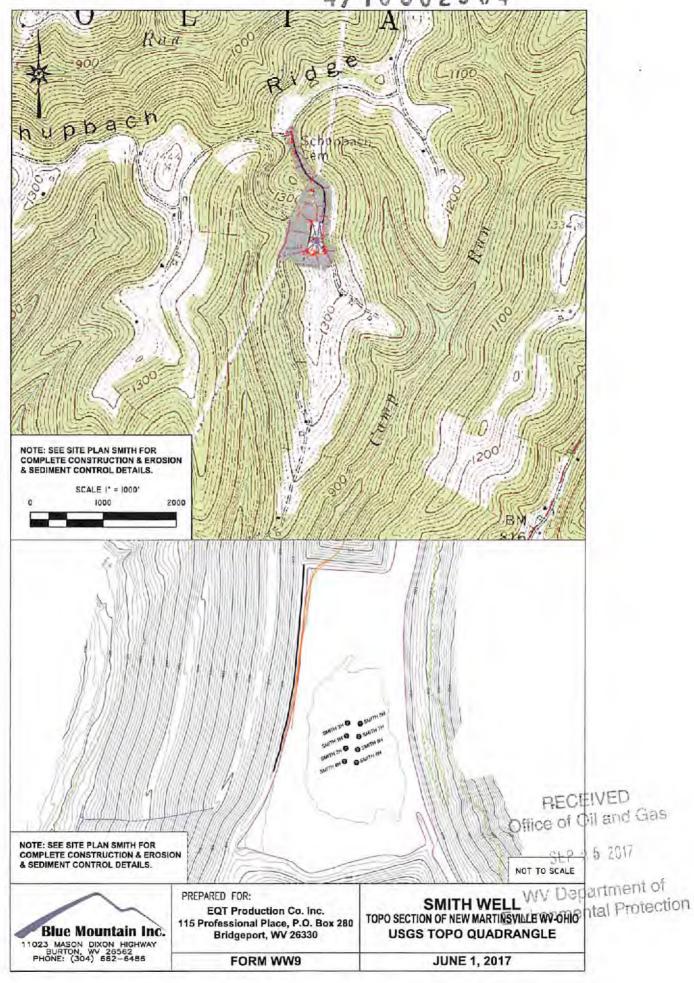
P.O. Box 430
Reno, OH 45773
740-516-6021 Well
740-374-2940 Reno Office Jennifer
Nobel County/Jackson Township
Permit # 4037

#### KING EXCAVATING CO.

Advanced Waste Services 101 River Park Drive New Castle, Pa. 16101 Facility Permit# PAR000029132

RECEIVED
Office of Oil and Gas

SEP 25 2017





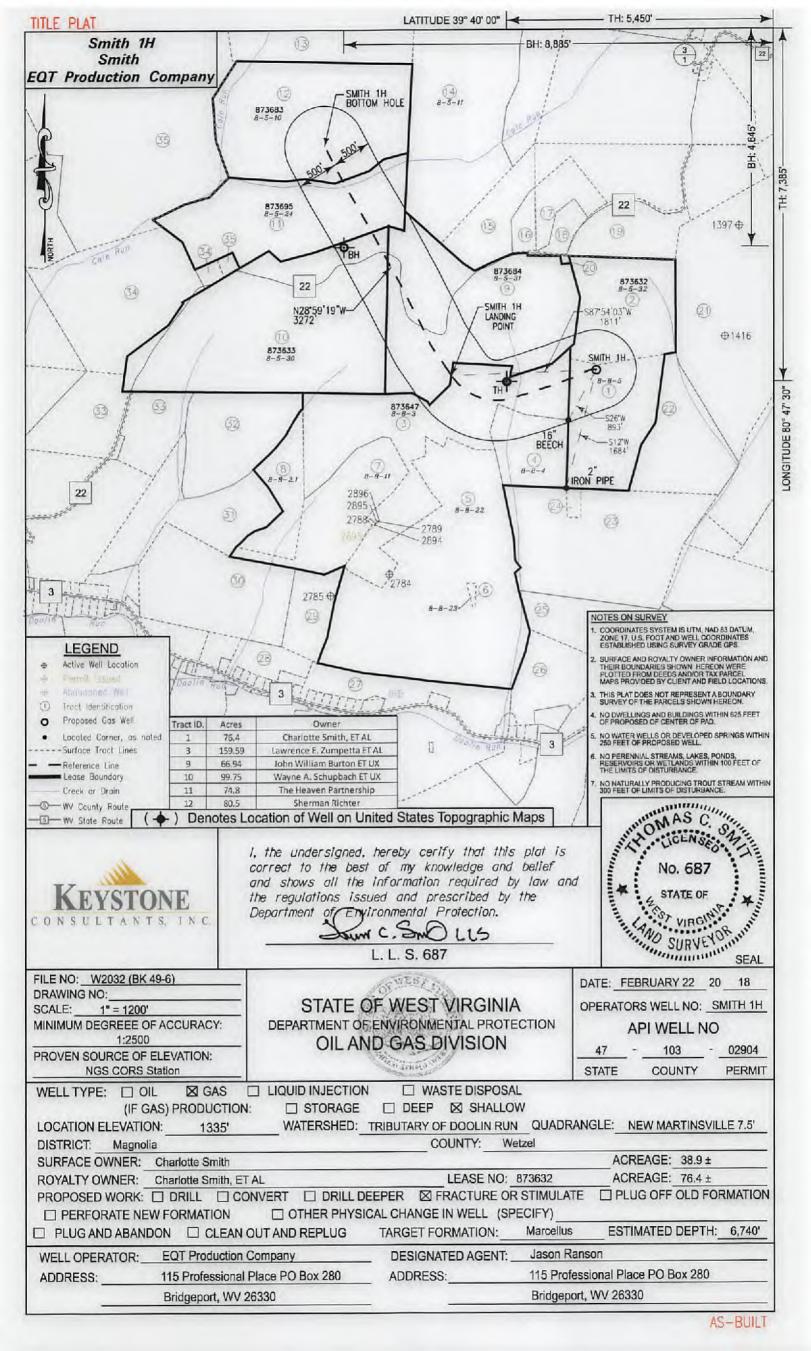
# Site Specific Safety Plan

# EQT Smith Pad New Martinsville Wetzel County, WV

Smith H	For Wells:		<del></del>
Date Prepared: June 19, 2017  EQT Production		WV Oil and Gas Inspector	
Regional Sent Sign.		Dil + Gr Tage Title 16-7-17	
Date		Date	RECEIVED Office of Oil and Gas

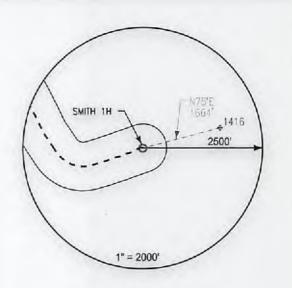
WV Department of Environmental Protection

OCT 11 2017



#### Smith 1H Smith **EQT Production Company**

Tract ID.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	8	5	Wetzel	Magnolia	Charlotte Smith	38.9
2	5	32	Wetzel	Magnolia	Charlotte Smith	37.5
3	8	3	Wetzel	Magnolia	Lawrence E. Zumpetta ET AL	72.86
4	8	4	Wetzel	Magnolia	Lawrence E. Zumpetta ET AL	15.28
5	8	22	Wetzel	Magnolia	Lawrence E. Zumpetta ET AL	107.5
6	8	23	Wetzel	Magnolia	Lawrence E. Zumpetta ETAL	0.27
7	8	11	Wetzel	Magnolia	Lawrence E. Zumpetta ET AL	36.86
8	8	2.1	Wetzel	Magnolia	Lawrence E. Zumpetta ET AL	18.15
9	5	31	Wetzel	Magnolia	John William Burton	66.56
10	5	30	Wetzel	Magnolia	Wayne A. & Virginia L. Schupbach	93.83
11	5	24	Wetzel	Magnolia	Heaven Partnership	53.59
12	5	10	Wetzel	Magnolia	Herman L. & Sherman Richter	80.66
13	5	1	Wetzel	Magnolia	Mark Edwin Scheibelhood	327.66
14	5	11	Wetzel	Magnolla	Ronald L Schupbach	89.45
15	5	25	Wetzel	Magnolia	Stone Energy Corporation	17.64
16	5	25.1	Wetzel	Magnolia	Stone Energy Corporation	4.19
17	5	26,3	Wetzel	Magnolia	Stone Energy Corporation	10.95
18	5	26.1	Wetzel	Magnolia	Stone Energy Corporation	3.93
19	5	26.2	Wetzel	Magnolia	Franklin Ray Blake	17.73
20	5	31.1	Wetzel	Magnolla	Schupbach Cemetery	0.27
21	5	33	Wetzel	Magnolia	Franklin Ray Blake	108.4
22	8	6	Wetzel	Magnolla	Kocher Albert HRS	33.01
23	8	12	Wetzel	Magnolia	David L. & Ralph D. Smith	58.15
24	8	12.1	Wetzel	Magnolia	Ralph Oscar & Jonee Kay Smith	1.23
25	8	24.0	Wetzel	Magnolia	Gary W. & Linda J. Durig	18.32
26	8	54.1	Wetzel	Magnolia	Gary W. & Linda J. Durig	22.47
27	8	62	Wetzel	Magnulia	Gary W. & Linda J. Durig	57.15
28	8	38	Wetzel	Magnolia	George R. Mullett	8.28
29	8	21	Wetzel	Magnolia	Michael L. Mullett	12.25
30	8	20	Wetzel	Magnolia	Billy Darrell Morris	54.66
31	8	10	Wetzel	Magnolia	Myron H. Helmick	35.57
32	8	2	Wetzel	Magnolia	J W Schamp EST	37.54
33	8	1	Wetzel	Magnolia	Raymond L. Howell	40.43
34	5	29	Wetzel	Magnolia	Robert L. Goddard	54,39
35	5	8	Wetzel	Magnolia	George E. & Beth Ann Heinzman	141.4



SMITH 1H As-Built coordinates are
NAD 27 N: 420,251,000 E: 1,630,827,000
NAD 27 Lat: 39,646436 Long: -80,811062 NAD 83 UTM N: 4,388,541.959 E: 516,226.062

SMITH 1H As-Built Landing Point coordinates are NAD 27 N: 420,184.710 E: 1,629,017.200 NAD 27 Lat: 39.646181 Long: -80.817484 NAD 83 UTM N: 4,388,512.542 E: 515,675.027

SMITH 1H As-Built Bottom Hole coordinates are NAD 27 N: 423,044,240 E: 1,627,432,810 NAD 27 Lat: 39,653967 Long: -80,823260 NAD 83 UTM N: 4,389,375,647 E: 515,177,812

West Virginia Coordinates system of 1927 (North Zone) based upon Differential GPS Measurements Plat orientation, Corner and well ties are based upon the grid north meridian Well location references are based upon the grid north

UTM coordinates are NAD83, Zone 17, Meters.

#### LEGEND

- Active Well Location Proposed Gas Well
- 0 Located Corner, as noted
- Surface Tract Lines Reference Line

Lease Boundary Creek or Drain

WV County Route WV State Route

SMITH PAD

SMITH 3H O O SMITH 5H

SMITH IH O O SMITH 7H

SMITH 2H O O SMITH 8H SMITH 4H O O SMITH 6H

Well References ⊚ SMITH 1H 15" Hemlack Wood Stake

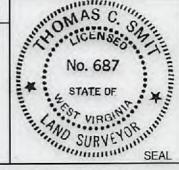


I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

w c. Smo LUS

L. L. S. 687

DE TEREST



FILE NO:	W2032 (BK 49-6)
DRAWING	NO:
SCALE:	1" = 1000'
MINIMUM I	DEGREE OF ACCURACY:
	1:2500
PROVEN S	OURCE OF ELEVATION:

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

DATE: FEBRUARY 22 20 18 OPERATORS WELL NO: SMITH 1H API WELL NO

- 02904 103

NGS CORS S	tation		The same of the sa			STATE	COUNTY	PERMIT
WELL TYPE:   OII	□ GAS □	LIQUID INJECTION	□ WAS	STE DISPO	DSAL			
(IF G/	AS) PRODUCTION:	☐ STORAGE	☐ DEEP	SHALL	LOW			
LOCATION ELEVATION	N: 1,335'	WATERSHED:	TRIBUTARY OF	DOLLIN RUN	QUAD	RANGLE:	NEW MARTINS	SVILLE 7.5'
DISTRICT: Magnolia	a		CC	DUNTY:	Wetzel			
SURFACE OWNER:	Charlotte Smith					A	CREAGE: 38.9	9 ±
ROYALTY OWNER:	Charlotte Smith, ET	AL		LEASE N	O: 873632	A	CREAGE: 76.	4 ±
DROBOSED WORK! I	DDILL DCOM	VEDT   DOILL DE	EDER ME	RACTURE	OR STIMUL	ATE DE	PLUG OFF OLD	FORMATION

ROPOSED WORK: LI DRILL

☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) □ PERFORATE NEW FORMATION ESTIMATED DEPTH: 6,740'

□ PLUG AND ABANDON □ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus

**EQT Production Company** DESIGNATED AGENT: \_ Jason Ranson WELL OPERATOR: \_\_ 115 Professional Place PO Box 280 115 Professional Place PO Box 280 ADDRESS: ADDRESS: Bridgeport, WV 26330 Bridgeport, WV 26330

#### 47 10 3 0 2 9 0 4 Operator's Well No. SMITH 1H

RECEIVED
Office of Oil and Gas

SEP 2 5 2017

# INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) WV Department of IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACTORS mental Protection

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
Various	Stone Energy Corp.	EQT Production Company	**	183A/305

\*\* Per West Virginia Code Section 22-5-8

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

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

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

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

Well Operator: EQT Production Company

By: Victoria J Roark

Its: Regional Land Supervisor

Page 1 of

SMITH #1H

10302904

#### 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)

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- (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
8-5-10	Sherman Richter	Stone Energy Corporation	1/8	122.A/832
8-5-10	Herman L. Richter	Stone Energy Corporation	1/8	122A/834
8-5-10	Piney Holdings Inc.	Stone Energy Corporation	1/8	122A/818
8-5-10	Betty Lou Goff	Stone Energy Corporation	1/8	3/198
8-5-10	· Robin M. King	Stone Energy Corporation	1/8	124A/943
8-5-10	Kim Allan Vance	Stone Energy Corporation	1/8	124A/945

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

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Office of Oil and Gas

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

SEP **2.5** 2017

WV Department of Environmental Protection

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:	STONE ENERGY CORPORATI	ION
By:	( ) my	<del></del>
Its:	Land Coordinator	Received Ga
		Office of Oil & Ga

and the property

10302904

WW-6A1 (Attachment)

Operator's Well Number:

Smith #1H

# INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page	Map/Parcel
Sandra Lee Wright	Stone Energy Corporation	1/8	124A/947	8-5-10
Michael Lee Greathouse	Stone Energy Corporation	1/8	124A/949	8-5-10
Clifford Bruce Kauff	Stone Energy Corporation	1/8	124A/951	8-5-10
Lana Jean Frame	Stone Energy Corporation	1/8	124A/953	8-5-10
Henry K. Bivens	Stone Energy Corporation	1/8	124A/520	8-5-10
Mariann Cutlip	Stone Energy Corporation	1/8	124A/518	8-5-10
Edward C. Cody	Stone Energy Corporation	1/8	124A/516	8-5-10
Kathyryn L. Brown	Stone Energy Corporation	1/8	125A/388	8-5-10
Betty H. Bohoney	Stone Energy Corporation	1/8	125A/390	8-5-10
Curtis Eugene Joy, Jr.	Stone Energy Corporation	1/8	125A/392	8-5-10
Jeanette Ann Hafley	Stone Energy Corporation	1/8	125A/394	8-5-10
Eric Lane Alian	Stone Energy Corporation	1/8	126A/331	8-5-10
Leah E. Chapman Trust	Stone Energy Corporation	1/8	126A/714	8-5-10
Gordon Taiclet	Stone Energy Corporation	1/8	126A/717	8-5-10
Gary Melvin Hafely	Stone Energy Corporation	1/8	126A/712	8-5-10
Carol A. Domingo	Stone Energy Corporation	1/8	125A/855	8-5-10
Elizabeth F. Fitchet	Stone Energy Corporation	1/8	126A/333	8-5-10
Hafely Heirs, LLC	Stone Energy Corporation	1/8	126A/730	8-5-10
Lois Poort, et ux	Stone Energy Corporation	1/8	126A/732	8-5-10
Betty June Hafley Miller, et vir	Stone Energy Corporation	1/8	127/215	8-5-10
The Heaven Partnership	Stone Energy Corporation	1/8	116A/948	8-5-24
Charles L. McGowen, Jr., et ux	Stone Energy Corporation	1/8	88A/305	8-8-3
Lawrence E. Zumpetta, et ux	Stone Energy Corporation	1/8	88A/309	8-8-3
John C. Bober, Ili, et ux	Stone Energy Corporation	1/8	88A/313	8-8-3
David T. Griffith	Stone Energy Corporation	1/8	88A/317	8-8-3
Jay H. Renner	Stone Energy Corporation	1/8	89A/93	8-8-3
B&R Construction	Stone Energy Corporation	1/8	112A/416	8-8-3
Lynn Ann McCray	Stone Energy Corporation	1/8	129A/620	8-8-3

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 —

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(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:

Well Operator Stone Energy Corporation

Title Land Coordinator

Received Office of Oil & Gas

RECEIVED
Office of Cil and Gas

SEP 9.5 2017

WW-6A1 (Attachment)

Operator's Well Number:	Smith #1H
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# INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page	Map/Parcel
Lyman B. Waterman, Jr.	Stone Energy Corporation	1/8	131A/696	8-5-31
Sherrell Lee Lallathin	Stone Energy Corporation	1/8	137A/332	8-5-31
Mary Martha Young	Stone Energy Corporation	1/8	39/105	8-5-31
Lisa Hoyt	Stone Energy Corporation	1/8	39/105	8-5-31
Joseph M. Young	Stone Energy Corporation	1/8	39/105	8-5-31
Lois J Hombrook	Stone Energy Corporation	1/8	39/105	8-5-31
John William Burton	Stone Energy Corporation	1/8	114A/713	8-5-31
Terry L. Schupbach	Stone Energy Corporation	1/8	39/105	8-5-31 8-5-31
Paul Nieratko Jr	Stone Energy Corporation	1/8	39/105	8-5-31
Charles Menkel	Stone Energy Corporation	1/8	39/105	8-5-31 8-5-31
James Young	Stone Energy Corporation	1/8		8-5-31 8-5-31
Sonny Smith	Stone Energy Corporation	1/8	39/105 111A/982	8-8-5
Joanne Brown	Stone Energy Corporation	1/8	114/267	8-5-30
Ray C Lance	Stone Energy Corporation	1/8		
Ken Lance, et ux	Stone Energy Corporation	1/8	114/267	8-5-30 8-5-30
John Caparanis, et ux	Stone Energy Corporation	1/8	114/267	
Kathryn B Emch	Stone Energy Corporation	1/8	114/267	8-5-30
Daniel Emch, et ux	Stone Energy Corporation		114/267	8-5-30
Cathy Bates	Stone Energy Corporation	1/8	114/267	8-5-30
Wayne Anthony Schupach, et ux		1/8	114/267	8-5-30
Mary M. Emch	Stone Energy Corporation	1/8	114/267	8-5-30
William A. Saylor, et ux	Stone Energy Corporation	1/8	131A/727	8-5-30
Nellie Drevna	Stone Energy Corporation	1/8	131A/712	8-5-30
IACING DIGALIA	Stone Energy Corporation	1/8	131A/714	8-5-30

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**Well Operator Stone Energy Corporation** 

Title Land Coordinator

Received Office of Oil & Gas

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Office of Oil and Gas

SEP 9.5 2017

10302904

WW-6A1 (Attachment)

Operator's Well Number:

Smith #1H

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Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page	Map/Parcel
Ray Weingart, et ux	Stone Energy Corporation	1/8	131A/716	8-5-30
Leonard E. Lance	Stone Energy Corporation	1/8	131A/718	8-5-30
George M. Lance, et ux	Stone Energy Corporation	1/8	131A/720	8-5-30
Ruth Ann Blevins, et vir	Stone Energy Corporation	1/8	114/267	8-5-30
Anna Mae White	Stone Energy Corporation	1/8	131A/722	8-5-30
Beth E. Saylor	Stone Energy Corporation	1/8	131A/743	8-5-30
David Saylor, et ux	Stone Energy Corporation	1/8	131A/741	8-5-30
Jean Ann Emch	Stone Energy Corporation	1/8	114/267	8-5-30
Patricia Lance	Stone Energy Corporation	1/8	114/267	8-5-30
Paula Hall	Stone Energy Corporation	1/8	114/267	8-5-30
Cindy Mistak	Stone Energy Corporation	1/8	114/267	8-5-30
Edward G Ernch II	Stone Energy Corporation	1/8	114/267	8-5-30
Jane Banning	Stone Energy Corporation	1/8	114/267	8-5-30
Jim Lance	Stone Energy Corporation	1/8	114/267	8-5-30
Jacquelyn Flix	Stone Energy Corporation	1/8	114/267	8-5-30
Richard W. Bell	Stone Energy Corporation	1/8	114/267	8-5-30
Joanne Ahlquist	Stone Energy Corporation	1/8	114/267	8-5-30
David J Bell	Stone Energy Corporation	1/8	114/267	8-5-30
Barbara J Chichak	Stone Energy Corporation	1/8	136A/509	8-5-30
Kenneth Emch, et ux	Stone Energy Corporation	1/8	114/267	8-5-30
Deborah Lenyo	Stone Energy Corporation	1/8	114/267	8-5-30
Roger Lon Ernch, et ux	Stone Energy Corporation	1/8	114/267	8-5-30
Daniel Ernch	Stone Energy Corporation	1/8	114/267	8-5-30
David Earl Emch	Stone Energy Corporation	1/8	114/267	8-5-30
Janice Lance	Stone Energy Corporation	1/8	114/267	8-5-30
Steve Lance	Stone Energy Corporation	1/8	114/267	8-5-30
The Ralph W. & Dorthy M. Emch Trust	Stone Energy Corporation	1/8	114/267	8-5-30
Rita Marie Ernch	Stone Energy Corporation	1/8	114/267	8-5-30
Mary Emch, et vir	Stone Energy Corporation	1/8	114/267	8-5-30
Jona Ernch	Stone Energy Corporation	1/8	114/267	8-5-30

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**Well Operator** Stone Energy Corporation

By I and Coordinate

Received Office of Oil & Gas

RECEIVED
Office of Oil and Gas

SEP & 5 2017

WW-6A1 (Attachment)

Operator's Well Number:	Smith #1H
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# INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page	Map/Parcel
Eileen Emch	Stone Energy Corporation	1/8	114/267	8-5-30
Majorie Ann Johnson Sells	Stone Energy Corporation	1/8	114/267	8-5-30
Charlene Winkler	Stone Energy Corporation	1/8	114/267	8-5-30
Charles Winkler, et ux	Stone Energy Corporation	1/8	114/267	8-5-30
Mary J Winkler	Stone Energy Corporation	1/8	114/267	8-5-30
Laurie K Miller	Stone Energy Corporation	1/8	114/267	8-5-30
Robert Miller	Stone Energy Corporation	1/8	114/267	8-5-30
Terry Lee Eaddy	Stone Energy Corporation	1/8	114/267	8-5-30
Marcia Lynn Williamson	Stone Energy Corporation	1/8	114/267	8-5-30
Rebecca Miller	Stone Energy Corporation	1/8	114/267	8-5-30
Sammuel Miller	Stone Energy Corporation	1/8	114/267	8-5-30
Debra Delong	Stone Energy Corporation	1/8	114/267	8-5-30
Ben Emch	Stone Energy Corporation	1/8	114/267	8-5-30
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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 —

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Nell Operator Stone Energy Corporation	
By Land Coordinator	
litte Land Coordinator	—— Beceived
	Received Office of Oil & Gas

RECEIVED
Office of Oil and Gas

SEP 2 5 2017



September 13, 2017

Mr. James Martin West Virginia Department of Environmental Protection Office of Oil and Gas 601 57th Street SE Charleston, WV 25304

Re: Smith 1H

Magnolia District, Wetzel County

Dear Mr. Martin.

EQT Production Company is submitting an application for a new well work permit for the above well number. Upon information and belief, Operator's lease and/ or other real property rights permit it to conduct drilling operations for the subject well in the location shown on the plat, including under any public roads that the well lateral crosses.

Vicki Roark

Permitting Supervisor-WV

RECEIVED Office of Oil and Gas

SEP 2.5 2017

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

Date of Notic	ce Certification: 9/21/17		API No. 47	7- 103 - 029	904
	1/-1/-			Well No. SMIT	H 1H
				Name: SMITH	
Notice has I	peen given:				
Pursuant to th	e provisions in West Virginia Code	§ 22-6A, the Operator has prov	ided the rec	quired parties v	with the Notice Forms listed
below for the	tract of land as follows:			3000	
State:	W		Easting:	516226.07	
County:	Wetzel		Northing:	4388541.96	
District:	Magnolia	Public Road Acce		Wetzel County R	
Quadrangle:	New Martinsville	Generally used far	rm name:	Smith, Sonny & C	Charlotte
Watershed:	Tributary of of Doolin Run				
requirements Virginia Code of this article Pursuant to	surface owner notice of entry to sof subsection (b), section sixteen a § 22-6A-11(b), the applicant shall have been completed by the application.  West Virginia Code § 22-6A, the Code § 22-6A,	of this article were waived in tender proof of and certify to thant.  Operator has attached proof to the	writing by e secretary	the surface ov that the notice	vner; and Pursuant to West
that the Ope	rator has properly served the requir	red parties with the following:			
*PLEASE CHE	CK ALL THAT APPLY				OOG OFFICE USE ONLY
☐ 1. NOT	TICE OF SEISMIC ACTIVITY 0	NOTICE NOT REQUIR SEISMIC ACTIVITY WAS			RECEIVED/ NOT REQUIRED
☐ 2. NO	FICE OF ENTRY FOR PLAT SUR	VEY or 🔳 NO PLAT SURVE	EY WAS CO	ONDUCTED	☐ RECEIVED
■ 3. NO	FICE OF INTENT TO DRILL OF	NOTICE NOT REQUIR NOTICE OF ENTRY FOR P			RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER B (PLEASE ATTACH)	BY SURFA	CE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION				☑ RECEIVED
■ 5. PUE	BLIC NOTICE				RECEIVED
■ 6. NO	FICE OF APPLICATION				RECEIVED

Required Attachments:

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

SEP 9.5 2017

WV Department of Environmental Protection

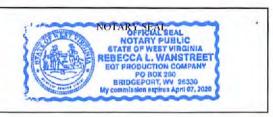
WW-6AC (1/12)

4710302904

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: EQT Production Company Address: 115 Professional Place PO Box 280 By: Victoria J Roark Bridgeport WV 26330 Its: Regional Land Supervisor Facsimile: 304-848-0041 Telephone: 304-848-0076 Email: vroark@eqt.com



Subscribed and sworn before me this 21 day of September 2017.

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 depprivacyofficer@wv.gov.

Office of Oil and Gas

SEP 9.5 2017

WV Department of Environmental Protection

API NO. 47-103 - 02904
OPERATOR WELL NO. SMITH 1H
Well Pad Name: SMITH

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 92117 Date Permit Application Filed: 9217 Notice of: PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) REGISTERED PERSONAL. ✓ METHOD OF DELIVERY THAT REQUIRES A SERVICE MAIL RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. RECEIVED ☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice ☐ Well Plat Notice is hereby provided to: Office of Oil and Gas COAL OWNER OR LESSEE ☑ SURFACE OWNER(s) Name: See attached Name: See Attached SEP 2 6 2017 Address: Address: WV Department of COAL OPERATOR Name: Environmental Protection Name: Address: Address: SURFACE OWNER(s) (Road and/or Other Disturbance) Name: See Attached ☐ SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s) Address: Name: Name: Address: Address: □ OPERATOR OF ANY NATURAL GAS STORAGE FIELD M SURFACE OWNER(s) (Impoundments or Pits) Name: Name: See Attached Address: Address: \*Please attach additional forms if necessary

WW-6	A
(8-13)	

API NO. 47- 103 - 02904 OPERATOR WELL NO. SMITH 1H

Well Pad Name: SMITH

## 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/oiland-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 imposs by permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, Reting Contained Cases in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 40 Cpermit 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 solution the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address that thems

WW-6A (8-13)

API NO. 47-103 - 02904

OPERATOR WELL NO. SMITH 1H

Well Pad Name: SMITH

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

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Office of Cil and Gas

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

WY Department of the permit decision and a list of persons qualified ton't of test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

Environmental Protection

WW-6A
(8-13)

API NO. 47- 103 - 02904

OPERATOR WELL NO. SMITH 1H

Well Pad Name: SMITH

## 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 <a href="http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx">http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx</a> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

## **Permit Denial or Condition**

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

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

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

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

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SEP 25 2017

WW-6A (8-13)

API NO. 47- 103 - 02904

OPERATOR WELL NO. SMITH 1H

Well Pad Name: SMITH

Notice is hereby given by:

Well Operator: EQT Production Company

Telephone: 304-848-0076 Email: vroark@eqt.com

Address: 115 Professional Place PO Box 280

Bridgeport WV 26330

Facsimile: 304-848-0041

## Oil and Gas Privacy Notice:

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

Subscribed and sworn before me this 21 day of Supernber2017.

Notary Public

My Commission Expires

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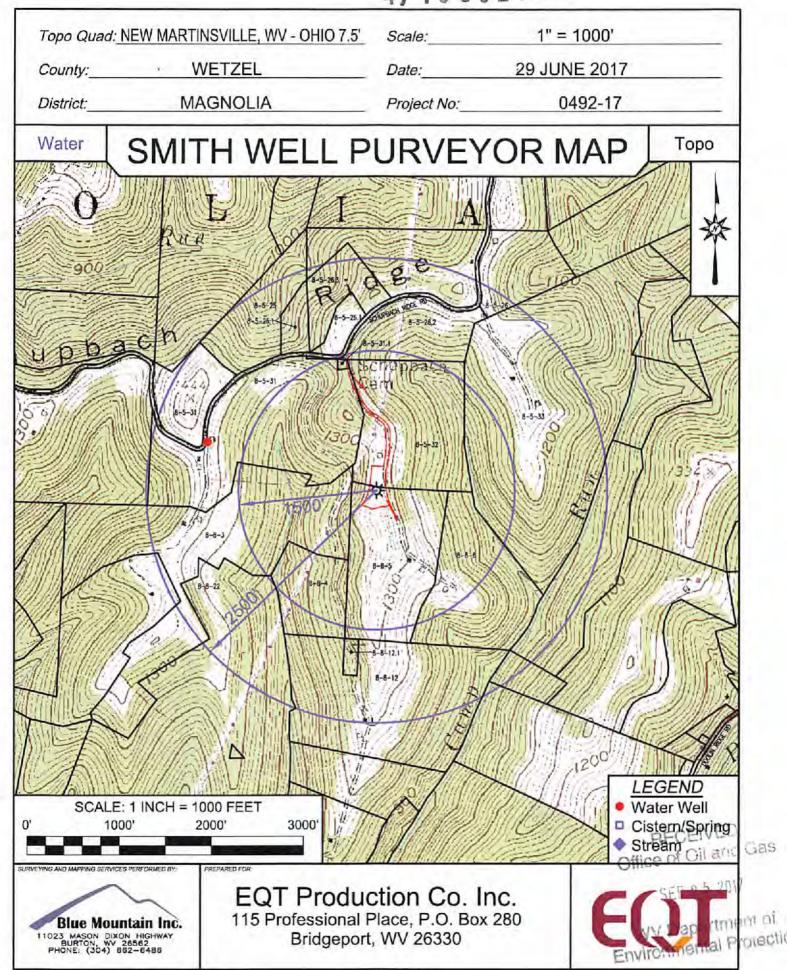
SEP 2 5 2017

Surface Owners, Surface Owners (road or other disturbance), Surface Owners (AST) and Coal:

Charlotte Smith 440 Farm Road New Martinsville WV 26155

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Office of Oil and Gas

SEP 2 5 2017



## 4710302904

# 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.

Date of Noti		d at least TEN (10) days prior to filing a Permit Application Filed: 09/22/2017	permit application.
Delivery met	thod pursuant to West Virginia Code	§ 22-6A-16(b)	
M HAND	7		
	☐ CERTIFIED MAIL	continued to the	
DELIVE	ERY RETURN RECEIPT R	EQUESTED	
receipt request drilling a hore of this subsect subsection mand if availab	sted or hand delivery, give the surface o izontal well: <i>Provided</i> , That notice givetion as of the date the notice was provided by the surface of the waived in writing by the surface of the facsimile number and electronic mains.	wher notice of its intent to enter upon the en pursuant to subsection (a), section teded to the surface owner: <i>Provided, how</i> owner. The notice, if required, shall included to the operator and the operator	an operator shall, by certified mail return ne surface owner's land for the purpose of n of this article satisfies the requirements vever, That the notice requirements of this ude the name, address, telephone number, r's authorized representative.
Name: See Atta	reby provided to the SURFACE O	Name: See Attached	
Address:	WHE	Address:	
State: County: District:	wher's land for the purpose of drilling a  W  Wetzel  Magnolia	horizontal well on the tract of land as fo  UTM NAD 83 Easting: Northing: Public Road Access:	Hows: 516226.07 4388541.96 Wetzel County Route 22
State: County: District: Quadrangle:	WV Wetzel	UTM NAD 83 Easting: Northing:	516226.07 4388541.96
the surface of State: County: District: Quadrangle: Watershed:	WV Wetzel Magnolia	UTM NAD 83 Easting: Northing: Public Road Access:	516226.07 4388541.96 Wetzel County Route 22
State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor	WW Wetzel Magnolia New Martinsville Tributary of of Doolin Run  Shall Include: West Virginia Code § 22-6A-16(b), the observation of the cizontal drilling may be obtained from the cizontal drilling	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  is notice shall include the name, addre operator and the operator's authorize the Secretary, at the WV Department of	516226.07 4388541.96 Wetzel County Route 22
State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 601	WW Wetzel Magnolia New Martinsville Tributary of of Doolin Run  Shall Include: West Virginia Code § 22-6A-16(b), the other and electronic mail address of the cizontal drilling may be obtained from the cizontal drilling may be obtained from the cizontal Street, SE, Charleston, WV 25304	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  is notice shall include the name, addre operator and the operator's authorize the Secretary, at the WV Department of	516226 07 4388541.96 Wetzel County Route 22 Smith, Sonny & Charlotte ess, telephone number, and if available, and representative. Additional information f Environmental Protection headquarters,
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State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 601 Notice is he Well Operato	WW Wetzel Magnolia New Martinsville Tributary of of Doolin Run  Shall Include: West Virginia Code § 22-6A-16(b), the other and electronic mail address of the cizontal drilling may be obtained from the fizontal drilling may be obtained from the cizontal drilling may be obtained from	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  is notice shall include the name, addre operator and the operator's authorize the Secretary, at the WV Department of 4 (304-926-0450) or by visiting www.de	516226 07 4388541.96 Wetzel County Route 22 Smith, Sonny & Charlotte  ess, telephone number, and if available, and representative. Additional information f Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx.  Victoria Roark
State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 601 Notice is he Well Operato Address: Bridgeport WV 2	WW Wetzel Magnolia New Martinsville Tributary of of Doolin Run  Shall Include: West Virginia Code § 22-6A-16(b), the other and electronic mail address of the cizontal drilling may be obtained from the fizontal drilling may be obtained from the cizontal drilling may be obtained from	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  is notice shall include the name, addre e operator and the operator's authorize the Secretary, at the WV Department of 4 (304-926-0450) or by visiting www.de  Authorized Representative: Address:	516226 07 4388541.96 Wetzel County Route 22 Smith, Sonny & Charlotte  ess, telephone number, and if available, and representative. Additional information f Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx.  Victoria Roark
State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 601 Notice is he Well Operato Address:	WW Wetzel Magnolia New Martinsville Tributary of of Doolin Run  Shall Include: West Virginia Code § 22-6A-16(b), the observant of the cizontal drilling may be obtained from the cizontal drilling ma	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  is notice shall include the name, addre e operator and the operator's authorize the Secretary, at the WV Department of 4 (304-926-0450) or by visiting www.de  Authorized Representative: Address: Bridgeport WV 26330	s16226 07 4388541.96 Wetzel County Route 22 Smith, Sonny & Charlotte  ess, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx.  Victoria Roark 115 Professional Place PO Box 280

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. On office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

SEP 2 5 2017

Surface Owners, Surface Owners (road or other disturbance), Surface Owners (AST) and Coal: 47 10 3 0 2 9 0 4

Charlotte Smith 440 Farm Road New Martinsville WV 26155

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

## **WAIVER**

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

. hereby state ti	hat I have read the notice pro	visions lister	d shove and haraby spains the
ments under West Virginia Cod	e § 22-6A-16(b) for the tract	of land as fo	llows:
w	19714344 700	Easting:	516226 07
Wetzel	UIM NAD 83	_	4388541.96
Magnolia	Public Road Acc		Wetzel County Route 22
New Martinsville			Smith, Sonny & Charlotte
Tributary of of Doolin Run			
e Smith arm Road NV 28155	Signature:	Araki 14 Si	lotte S. Smoth
	ments under West Virginia Cod  W  Wetzel  Magnolia  New Martinsville  Tributary of of Doolin Run  e Smith  arm Road	ments under West Virginia Code § 22-6A-16(b) for the tract  W  Wetzel  Magnelia New Martinsville Tributary of of Doolin Run  Public Road Acc Generally used f	ments under West Virginia Code § 22-6A-16(b) for the tract of land as fo  W Wetzel  Magnolia New Martinsville Tributary of of Dooiin Run  Tributary of of Dooiin Run

Oil and Gas Privacy Notice:

Surface Owner Waiver:

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 depprivacy officer awv.gov.

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## 4710302904

Operator Well No. SMITH 1H

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

	Requirement: notice shall be provided nee: 9 2117 Date Permit A	o later than the filing pplication Filed:	date of permit	application.
Delivery met	hod pursuant to West Virginia Code §	22-6A-16(c)	1	
	FIED MAIL   RN RECEIPT REQUESTED	HAND DELIVERY		
return receipt the planned of required to be drilling of a l damages to the	requested or hand delivery, give the surfa- operation. The notice required by this so provided by subsection (b), section ten operation well; and (3) A proposed surface affected by oil and gas operation	ace owner whose land ubsection shall include of this article to a surfa ace use and compens as to the extent the da	I will be used for de: (1) A copy ace owner whost sation agreement 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
(at the address	eby provided to the SURFACE OWNE s listed in the records of the sheriff at the			
Name: See Atta	ched	Name:		
Address:		Address	S:	
operation on State: County:	vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose of www.	of drilling a horizonta UTM NAD 8	l well on the tra Easting: Northing:	
District:	Magnolia	Public Road	VED NORTH	Wetzel County Route 22
Quadrangle:	New Martinsville	Generally use	ed farm name:	Smith, Sonny & Charlotte
Pursuant to W to be provide horizontal we surface affect information re	d by W. Va. Code § 22-6A-10(b) to a still; and (3) A proposed surface use and coded by oil and gas operations to the exterelated to horizontal drilling may be obtated at 601 57th Street, SE, Charles	surface owner whose empensation agreement the damages are co- tined from the Secret	land will be unt containing an ompensable und ary, at the WV	code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting

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 of the privacy Officer at depprivacyofficer@wv.gov.

Office of Oil and Gas

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Surface Owners, Surface Owners (road or other disturbance), Surface Owners (AST) and Coal:

Charlotte Smith 440 Farm Road New Martinsville WV 26155

4710302904

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SEP 2 5 2017



## WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

July 26, 2017

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57<sup>th</sup> Street, SE Charleston, WV 25304

Subject: DOH Permit for the Smith Pad, Wetzel County

47-103-02904 Smith 1H Smith 2H Smith 3H Smith 4H

Smith 5H Smith 6H Smith 8H

Dear Mr. Martin,

Jim Justice

Governor

This well site will be accessed from an encroachment permit 06-2013-0010 to be transferred EQT Production Company for access to the State Road for a well site located off of Wetzel County Route 22 SLS. This permit must be approved by the DOH before construction is begun.

The operator has signed a STATEWIDE 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.

Dang K. Classton

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Nick Bumgardner

**EQT Production Company** 

CH, OM, D-6

File

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SEP 2 5 2017

# Anticipated Frac Additives Chemical Names and CAS numbers

4710302904

<u>Material</u>	<u>Ingredient</u>	<b>CAS Number</b>
Water		
Sand	Hydrotreated light petroleum distillate Tributyl tetradecyl phosphonium	14808-60-7
Friction Reducer	chloride	64742-47-8
Biocide	Ammonium chloride	81741-28-8
Scale Inhibitor	Hydrochloric Acid	12125-02-9
15% Hydrochloric Acid	Propargyl Alcohol	7647-01-0
Corrosion Inhibitor	Methanol	107-19-7
Corrosion Inhibitor	Guar Gum	67-56-1
Gelling Agent	Sodium Persulfate	9000-30-0
Oxidizing Breaker	Potassium Carbonate	7775-27-1
Buffering Agent		584-08-7

10-7-17

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Office of Oil and Gas

OCT 11 2017



LOCATION MAP NEW PRATTY SALLE WY 7 SH LIGHT GUARNARIE Scale II - 2000

### SITE LOCATION

THE PROJECT IS LOCATED AT 39.650510, -BD.BI2201 (NAD83 WVN). THE COORDINATES ARE REFERENCED FROM THE PAD ENTRANCE AND CAN BE LOCATED BY TAKING DODLIN RIDGE ROAD ONE MILE EAST FROM NEW MARTINEVILLE. TURN LEFT ONTO SCHUPBACH RIDGE AND TRAVEL APPROXIMATELY 2 4 MILES AND THE PAD ENTRANCE WILL BE ON THE RIGHT

### FLOODPLAIN NOTE

THE PROPOSED LIMITS OF DISTURBANCE FOR THIS PROJECT ARE NOT LOCATED IN A FLOOD ZONE, PER THE FLOOD INSURANCE RATE MAP (FIRM) NUMBER 54051C0225E.

## WVDEP OOG **ACCEPTED AS-BUILT** VA 9/13/2017

	SHEET INDEX
PG	DRAWING NAME
1	COVER SHEET
2	GENERAL DETAILS #1
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9	CONSTRUCTION DETAILS

# WV Department of Environmental Protection

LOCATION MAP

## ENTRANCE OF SITE

**SMITH WELL SITE** 

NAD 83 - LAT: N 39.650510°: LONG: W 80.812201° NAD 27 - LAT: N 39.650432°: LONG: W 80.812381° UTM (NAD83) - N: 4388985.269; E: 516111.897

## CENTER OF WELL PAD LOCATION

NAD 83 - LAT: N 39.646617°: LONG: W 80.810879° NAD 27 - LAT: N 39.646539°; LONG: W 80.811059° UTM (NAD83) - N: 4388553.447; E: 516226.226

> MAGNOLIA DISTRICT WETZEL COUNTY, WEST VIRGINIA DATE: JUNE I, 2017

## Blue Mountain Inc.

Engineers and Land Surveyors Woman Owned Small Business 10125 Mason Dixon Hwv. Burton, WV 26562-9656 (304) 662-6486

NOTE. DRAWING WAS CREATED ON 22x34 PAPER. HX17 DRAWINGS ARE HALF SCALE. REFER TO SCALE BAR FOR PROPER SCALING.

### PROPERTY OWNERS

SMITH SONNY L & CHARLOTTE 08-08-05 2 SCHUPBACH GEDRGE S 08-05-32



Know what's below. Call before you dig. SMITH WELL SITE

1. 1. 10 Y. 16 APPROXIMATE THE LOTE THE THORN the street and used made of a said

SHEET NO.

