

west virginia department of environmental protection

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

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:

API Number:	
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PERMIT CONDITIONS 47 10 30 2 7 9 3

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

CONDITIONS

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

API Number:	

PERMIT CONDITIONS 47 10 30 27 9 3

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, cessation of drilling, sending an email to DEPOOGNotify@wv.gov.

API NO. 47-103	02793	
OPERATOR WEL	L NO.	SMITH 2H
Well Pad Name	: SMITH	

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

1) Well Operat	or: EQTP	roduction C	ompany	3066	86	Wetzel	Magnolia	New Martinsville
				Ope	rator ID	County	District	Quadrangle
2) Operator's V	Well Numbe	r: SMITH 21	1		_ Well Pad	Name: SMITI	-	
3) Farm Name/	Surface Ow	ner: Smith, S	Sonny & Cha	arlotte	Public Road	d Access: Wet	zel County	Route 22
4) Elevation, c	urrent groun	d: <u>1321</u>	Ele	evation	n, proposed p	oost-constructio	on: 1321	
5) Well Type	(a) Gas	x	_ Oil		Unde	rground Storag	e	
	Other							
	(b)If Gas	Shallow	X		Deep			
A-1.		Horizontal	X		-			DMH
6) Existing Pad			*******					10-3-17
 Proposed Ta Marcellus, 6, 		ion(s), Depth 300 & 4,400 p		pated	Thickness ar	nd Expected Pro	essure(s):	107)21 1
8) Proposed To	tal Vertical	Depth: 6,89	97'					
9) Formation at	Total Verti	cal Depth:	Marcellus					
10) Proposed T	otal Measur	ed Depth:	12,474'					
11) Proposed H	lorizontal Le	eg Length: _	4930					
12) Approxima	te Fresh Wa	ter Strata De	pths:	100				
13) Method to I	Determine F	resh Water D	Depths: De	epth of	bit when water	shows in the flow	line or when	drilling soap is injected
14) Approxima	te Saltwater	Depths: 22	02					
l 5) Approxima	te Coal Sear	n Depths: 1	,105					
16) Approxima	te Depth to l	Possible Voi	d (coal mir	ne, kar	st, other): <u>N</u>	lone Anticipate	ed	
17) Does Propo directly overlyi					es	No	X	
(a) If Yes, pro	vide Mine I	nfo: Name:	<u></u>					
		Depth	:					
		Seam:						
		Owner	r:				· 	

WW-6B	
(04/15)	

API	NO. 47- 103	02793	
	ODERATORY	WELL NO	CAUT

Well Pad Name: SMITH

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	New or Used	<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	96'	80'	40- CTS
Fresh Water	13.375"	New	J55	54.5	1,312'	1,312'	1,139- CTS
Coal	13.375"	New	J55	54.5	1,312'	1,312'	1,139- CTS
Intermediate	9.625"	New	J55	36.0	2,582'	2,582'	717 Lead - 392 Tail CTS
Production	5.5"	New	P110	20.0	12,444'	12,444'	422 Lead - 2772 Tail CTS
Tubing	2.375"	New	J55	4.7		6,100'	N/A
Liners	N/A						

10-3-17

TYPE	Size (in)	Wellbore Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement 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	1.19
Coal	13.375"	17.5"	0.380"	2,730 psi	2160 psi	Class A	1.19
Intermediate	9.625"	12.25"	0.352"	3,520 psi	2814 psi	Class A	1.28 Lead - 1.19 Tail
Production	5.5"	8.75"	0.361"	12,360 psi	10112 psi	Class A	2.37 Lead - 1.20 Tail
Tubing	2.375"	N/A	0.190"	7,700 psi		N/A	N/A
Liners							

PACKERS

Kind:		
Sizes:		
Depths Set:		

WW-6B
(10/14)

47 10 3 0 2 7 9 3

API NO. 47- <u>103</u>	- 02793	
OPERATOR W	VELL NO.	SMITH 2H
Well Pad Na	те: змітн	

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.

10-3-17

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 scale 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 28 and 30. Intermediate casing had bow spring centralizers placed on joints 3, 6, 9, 12, 15, 18, 21, 24, 27 and 30. Production casing had rigid spiral centralizers placed on every fourth joint beginning with joint 1 to joint 144. Ran a total of 38 rigid spiral centralizers. Ran bow spring centralizers from joint 154 to joint 283 on every third joint. A total of 44 bow spring centralizers were run.

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

Fresh Water/Coal cement is typically Class A w/ 0.25 pps Cello-Flake and 1.0% to 3.0% CaCl2. Intermediate cement is a lead/tail blend with the lead being Class A w/ 10% Salt and 0.25 pps Cello-Flake. Tail is Class A w/ 0.25 pps Cello-flake + 1.0% to 3.0% CaCl2 + .02% Anti-Foam. Production cement is a lead/tail blend with the lead being Class "A" w/ 10% Salt blend w/ 0.02% Anti-foam and tail being HES's HALCEM blend w/ 0.65% Retarder and 0.1% Dispersant or SLB with lead/tail with the lead being Class A w/ 10% Salt or Class A w/ FlexSeal and the tail being Class A w/ 0.2% Dispersant, 0.4% Fluid Loss, 0.2% Anti-Foam, 0.15% Retarder, and 0.2% Anti-Settling Agent.

25) Proposed borehole conditioning procedures:

Fresh Water/Coal section will be done by circulating air through the drill string at TD between 30 and 90 minutes or until the well bore clears 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 clears of cuttings.

Production section will be done by circulating drilling fluid through the drill string at TD between 120 to 720 minutes (a minimum of 3 bottoms up) until the shakers are clear of cuttings.

*Note: Attach additional sheets as needed.



6000 Hampton Center, Suite B Morgantown, WV 26505-1748 Telephone: (304) 590-1457 Fax: (337) 291-7787

5/21/2012

. . .

Mr. James Martin, Chief WV Office of Oil and Gas 601, 57th Street, SE Charleston, WV 25304-2345

Dear Mr. Martin;

Stone Energy, Operator ID 494490923, is requesting a waiver to allow the setting of the surface casing deeper than 300' for the well applications listed in the table below. This request is being made so we can ensure any potential fresh water horizon and all coal seams are covered by casing and cement. Cement on the surface strings will be circulated back to surface. The bottom coal seam for this pad (Smith Pad) is expected to be intersected by the well bores at a depth of 1,101'. Elevation of the Pad is 1,335' above sea level prior to construction and the anticipated elevation after construction is 1,321' above sea level. This leaves the coal seam 220' above sea level based upon the anticipated elevation of the constructed pad. With coal seams being a perfect avenue for the transportation of fresh water, the setting of the surface casing at 1,265' (56' above sea level) will protect both the coal seams and any fresh water from being introduced with salt water. Salt water is expected to be encountered at a depth of 1,740' (419' subsea).

Well Name Smith #2H Smith #4H Smith #7H

Should you require additional information or have any questions please feel free to contact me at 304-225-1777.

Sincerely,

W. Lee Hornsby

Drilling Engineer, Appalachia Stone Energy Corporation

2-93-12 DWN

Office of Oil and Gas

WV Department of Environmental Protection

Well: Smith #2H State: West Virginia

STONE ENERGY - PROPOSED HORIZONTAL - Modification

Revision: 12-Nov-13

Permit Number: 47-103-02793 Permit Issued: 10/12/2012

As Built Ground Elevation: 1321'

Kelly Bushing: 18'

Rig:

Spud Date: TD Date: Rig Release Date:

Prospect: Mary Location: Surface: North = 4,388,536 East = 516,226 (UTM NAD 83) PBHL: North = 4,385,781 East = 516,894 (UTM NAD 83)

PTD: 13100' MD / 6880' TVD

County: Wetzel

District: Magnolia

SIZE	PILOT HOL FORMATION T	PILOT HOLE FORMATION TOPS			CASING & CEMENTING DATA DIRECTIONAL DATA		HOLE
24" Hole then Driven		B (80' BGL)	JIII IIII	CONDUCTOR PIPE			Vertic
17-1/2" Hole	Shallowest FW Pittsburgh Coal Deepest FW	80° TVD 1115° TVD 1114° TVD 1300° TVD		20" x 3/8" wall L/S PE @ 98' (set in bedrock & grouted to surface SURFACE CASING	ce)	Air / Mist	Vertic
12-1/4" Hole		1740' TVD 2156' TVD 2196' TVD 2296' TVD 2396' TVD 2600' TVD		13-3/8" 54.5# J-55 STC @ 1300' MD/TVD Set through fresh water zones Set through coal zones Cemented to surface INTERMEDIATE CASING	Cotaction	Stiff Foam	Vertic
	Berea Sandstone Gordon Sandstone	2765' TVD	1	9-5/8" 36.0# J-55 LTC @ 2600' MD/TVD Set through potential salt water zones Set below base of Big Injun Cemented to surface	and the Profit		
8-3/4" Hole				00,79.010	Receive	Air/Dust	
8-3/4" Hole	Rhinestreet Shale Middlesex Shale West River Shale Geneseo Shale Tully Limestone Hamilton Shale	6495' TVD 6512' TVD	_//	KOP @ 6111' TVD		WBM. In Curve	
3-3/4" Hole in Lateral	Marcellus Shale		Enviro			WBM In Lateral	-89.
	Onondaga Limestone		SEP 2 9 20 M/Departmental Front	Canding Point (CF) (8) 1400 MD 1 8030 TVD	PRO	DUCTION CASING CCDC @ 13100' MD ~1000' inside 9-5/8")	

STONE ENERGY - AS DRILLED TOP HOLE with SLANT

Revision: 1-Jul-14

Well: Smith #2H TOP HOLE (AFE# 2014-0002T) Permit Number: 47-103-02793
State: West Virginia Permit Issued: 10/12/2012
ounty: Wetzel Ground Elevation: 1321'

County: Wetzel 47 10 3 0 2 7 9 3 Ground Elevation: 132 Kelly Bushing: 15'

Prospect: Mary

Rig: NOMAC Rig #237

Location: Surface: (N) 420,232' (E) 1,630,826' State Plane WV North NAD 27 Spud Date: 10/31/2013

PBHL: (N) 419,811' (E) 1,630,658' State Plane WV North NAD 27 TD Date: 11/7/2013 PTD: 5911' MD / 5874' TVD Rig Release Date: 11/8/2013

HOLE SIZE	FORMATIC TOPS	ON	WELLBORE DIAGRAM	CASING & CEMENTING DATA	MW & TYPE	HOLE DEV.
Pre-Set	00114	D (04) DOL)		CONDUCTOR PIPE		Ver
Conductor	96 K	B (81' BGL)		20" @ 96' (set in bedrock &	assessed)	
	Shallowest FW	100' TVD		20 @ 96 (Set III bedlock a	cemented)	
17-1/2" Hole	Pittsburgh Coal	1105' TVD				
(Hammer)			2	9-5/8" TAM CAP Packer @	1183' MD/TVI)
	Deepest FW	1110' TVD		SURFACE CASING	Air / Mist	0.3
y-		1312'				
				13-3/8" 54.5# J-55 STC @		
	RED BEDS	04001 TVD		Set through fresh wa Do not set deeper th		
	Little Lime	2163' TVD		Cemented to surface	A STATE OF THE STA	ation
12-1/4" Hole	Big Lime	2193' TVD		Cemented to surface	3	
(Rock Bit)	Salt Water	2202' TVD				
	Big Injun	2293' TVD				
	Base of Big Injun	2393' TVD		INTERMEDIATE CASING	Stiff Foam	0.7
- A		2582'	4 4			-
			1 1	9-5/8" 36.0# J-55 LTC @ 2		
	2.00		1 1	Set through potentia		s
	Berea	2762' TVD	i i	Set below base of B		
8-3/4" Hole			1 1	Cemented to surface	1	
Nudge	200	2000 T /D	1 !	Performed SLANT due to anti	collision cons	orne
(Rock Bit)	Gordon	2983' TVD		Perioniled SEART due to and	Complete Cons	ome.
					Office of SEP 2	CEIVED Oil and Ga
0.0/4811-1-			1 1		OEP 2	9 2017
8-3/4" Hole to KOP (Hammer)					Environmental	nent of rotection
		5874' TVD	i		Air / Dust	9.6
_		3014 110	L	OP HOLE TD @ 5911' MD / 5874	The second secon	_
	Rhinestreet Base	6360' TVD		(~115' above planned KOP)	2000	
	Middlesex	6517' TVD				
	West River	6534' TVD				
	Geneseo Shale	6731' TVD				
	Tully LS	6761' TVD				
	Hamilton Shale	6786' TVD				
	Marcellus Shale	6821' 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 _ 02793 County	Wetzel	_{District} Magnolia	
	ne Smith	Field/Pool Name Mary	
Farm name Smith, Sonny and Charlotte		Well Number #2H	
Operator (as registered with the OOG) Stone Ene	ergy Corporation		_
Address 1300 Fort Pierpont Dr Suite 201		State WV	Zip <u>26508</u>
As Drilled location NAD 83/UTM Attach a Top hole Northing 4.38 Landing Point of Curve Northing 4.38 Bottom Hole Northing 4.38	8,073	Easting 516,226 Easting 515,144 Easting 516,901	
Elevation (ft) 1,321 GL Type	of Well □New ■ Existin	ng Type of Report 📲	nterim □Final
Permit Type Deviated Horizontal	Horizontal 6A 🛛 Vert	ical Depth Type 🗆	Deep Shallow
Type of Operation □ Convert □ Deepen □ D	rill 🗆 Plug Back 🗆	Redrilling □ Rework ■	Stimulate
Well Type □ Brine Disposal □ CBM ■ Gas □ C	Dil □ Secondary Recovery	□ Solution Mining □ Storag	e 🗆 Other
Type of Completion ■ Single □ Multiple Flu	ids Produced □ Brine	□Gas □NGL □Oil □C	Other
Drilled with □ Cable ■ Rotary			
Drilling Media Surface hole Air Mud Production hole Air Mud Fresh Water Mud Type(s) and Additive(s) Saturated salt mud which includes Caustic S	□ Brine	diate hole	
Soda Ash, and Sodium Chloride			
Date completion activities began Not Yet Com	ling commenced10/31 pleted Date completion on granted	on activities ceased Not Yet	Completed
Please note: Operator is required to submit a pluggi	ng application within 5 day	ys of verbal permission to plug	SEP 29 2017 WV Department of Protectic
Freshwater depth(s) ft100	Open mine(s) (Y/N) depths	N N Protection
Salt water depth(s) ft 2,202	Void(s) encount	tered (Y/N) depths	N
Coal depth(s) ft 1,105	Cavern(s) encou	intered (Y/N) depths	N
Is coal being mined in area (Y/N)	\		
			Reviewed by:

WR-35

4710302793

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Rev. 8/23/13											
API 47- 103	02793	Farm	name_S	Smith, Sonny	and C	harlotte	eWell	l nun	nber_#2H		
CASING STRINGS	Hole Size	Casing Size	r		w or sed	Grade wt/ft		Bask Depti			nent circulate (Y/ N)
Conductor	24"	20"			New		94.1 ppf	Бери	11(5)	FIOVI	N - GTS
Surface	17.5"	13.375"	_	-	lew		54.5 ppf	116	i' & 196'		Y-CTS
Coal	17.5"	13.375"			lew		54.5 ppf		' & 196'		Y - CTS
Intermediate 1	12.25"	9.625"			lew		- 36 ppf				Y-CTS
Intermediate 2			 -		-		ос рр.				
Intermediate 3		· · · · · · · · · · · · · · · · · · ·	1								
Production	8.75"	5.5"	12	.444' N	New	P110	- 20 ppf			N - TO	C @ 1,500' Calculated
Tubing											
Packer type and d	epth set T	AM CAP Inflat	able Pac	ker on the 9.625	" casing	@ 1,183	•				
Comment Details the surface on the 5	Circulated 36 bbls ce				ed 26 bbls o	cement to s	urface on the 9.6	325" ca	asing string. Cir	culated r	no cement cement to
CEMENT	Class/Type	Num		Slurry		eld	Volume		Cement		WOC
DATA Conductor	of Cement Type 1	of Sa		wt (ppg) 15.6		/sks) 18	(ft.²_) 40	Т	Top (MD Surface		(hrs) 24.0
Surface	Class "A"	95	-	15.6		19	1,139	十	Surface	_	8.0
Coal	Class "A"	95		15.6		<u>19</u>	1,139	\dashv	Surface		8.0
Intermediate 1	Lead-Flex Seal Tail-Class			Lead-15.4 Tail 15.6		Tail-1.19	 	392	Surface	-	12.0
Intermediate 2								+			12.0
Intermediate 3								\dashv			_ .
Production	Lead-TunedSpacer3 Vari	Cem Lead-178	Tail-2.310	Lead- 14.5 Tail-15.2	Lead-2.37	' Tail-1.20	Lead-422 Tail-2,	.772	1,500' Calcu	lated	7.0
Tubing			<u> </u>					十			
Deepest forma	tion penetrated cedure	farcellus Shale			ggers TD g back to					Offi	RECEIVED ice of Oil and Gas
Kick off depth	(ft) 6,029 MD / 5,990	TVD									EP 2 9 2017
Check all wire	line logs run	□ caliper □ neutro			deviateo gamma			nduc empe		W\ Enviro ⊡sonio	V Department of Inmental Protection C
Well cored	Yes 🖪 No	Conven	tional	Sidewall		W	ere cuttings	coll	lected Y	es c	No No
	HE CENTRALIZ				CH CA	SING S	TRING Sur	face o	casing had bow s	spring ce	entralizers placed on
	d rigid spiral centralizers p A total of 44 bow spring ce		h joint begin	ning with joint 1 to join	t 144. Ran a	total of 38 r	rigid spiral centrali	zers. i	Ran bow spring co	entralizen	s from joint 154 to joint 283
On every bind joint.	total of 44 bow spring ce	nualzers were run.									
WAS WELL (COMPLETED A	S SHOT HOI	E o	Yes A No	DET	ΓAILS					
WAS WELL (COMPLETED O	PEN HOLE?	□ Y €	es 🖪 No	DETA	ILS _					•
WERE TRAC	ERS USED -	Yes ■ No	TY	PE OF TRACE	ER(S) U	SED _					

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4710302793

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API 4/ Well number	API 47- 103 - 02793	Farm name Smith, Sonny and Charlotte	Well number_#2H
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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
-					

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Office of Oil and Gas
SEP 29 2017

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 oEn Water (bbls)	W Dampun of Nilfogenhaling (Imas)
-								

Please insert additional pages as applicable.

WR-35 Rev. 8/23/13 Page <u>4</u> of ____

API 47- 103	_ 02793		Farm	name_Si	mith, S	Sonny an	d Charl	otte	Well	number <u>#</u>	2H			
PRODUCING I	FORMAT	ION(S)		DEPTH	<u>(S</u>									
Not Yet Comple	ted					TVD			MD					
									_					
	1*.*								_					
Please insert add	•	_		0	Pl		OU TE	- C	11					
GAS TEST		_		•						-	TEG	-	•	
SHUT-IN PRES	Gas	Surface	; Oil		NGL	om Hole		_psı					hrs	
OPEN FLOW		mcfpd			NGL	_ bpd	Water	_ bpd		MEASUR nated c			Pilot	
LITHOLOGY/ FORMATION	TOP DEPTH II	N FT D	BOTTOM EPTH IN FT	TC DEPTH	IN FT	BOTTO DEPTH IN	FT DE			PE AND RE		•		
	NAME T	VD	TVD	M		MD	TY	PE OF FL	UID (FRE	SHWATER	, BRIN	E, OIL, G	AS, H ₂ S, ET	C)
See Attached Sheet														
												_		
						<u> </u>			-					
														
				ļ		1	_							_
									-			-	Oct. F	250
													Office SED	
Please insert add	ditional pa	iges as a	policable.	<u> </u>									<u> </u>	حمد
Drilling Contrac	-	_		Drilling ((horizo:	ntal)						E	Wy _{Depé} nvironment	idmen.
Address 2034 Ma						Mount Mo	rris / The \	Voodland	State	PA/TX	Zip _	25312 / 7	WV Depa nvironment 7381	al Prote —
Logging Compa	iny Scient	ific Drillin	g and Schlu	ımberger	•									
Address 124 Vist			<u>-</u>		City	Charleroi	/ Weston		_ State	PA/W	Zip _	15022 / 2	6452	_
Cementing Com Address 1178 US	ipany Sch S HWY 33 E	lumberge ast	er		City	Weston			_ State	w	Zip 2	26452		
											. —·r _			_
Stimulating Cor Address	iipaiiy <u> </u>				City		<u> </u>		_ State		Zip_			_
Please insert add	ditional pa	iges as a	pplicable.							•				
Completed by							_ Tel	ephone _						
Signature				า	itle _	rilling Engin	eer			Date	2014		-	

EQT Production

Hydraulic Fracturing Monitoring Plan

Pad ID: Smith

Wetzel County, WV

9/19/17



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 2H, Smith 8H

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:

- 1. Inspect their surface equipment prior to fracturing to establish integrity and establish pre-frac well conditions
- 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

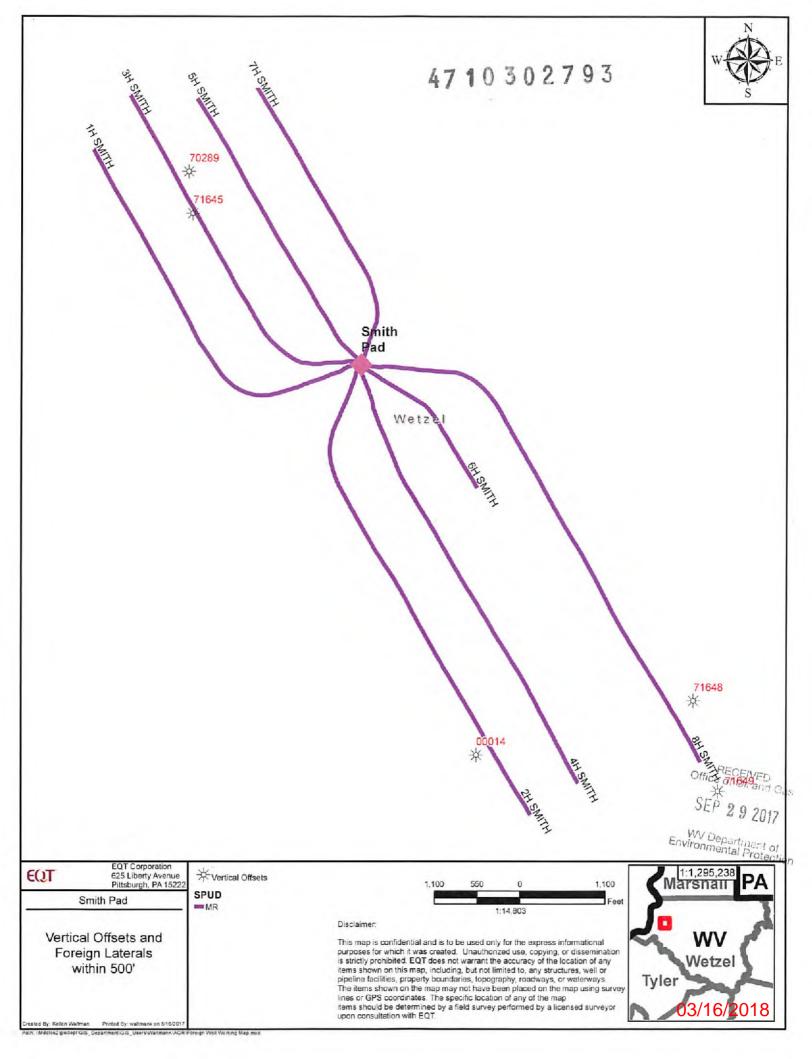
2. Reporting

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 Oil and Gas

SEP 2 9 2017

WV Department of Environmental Protection



₩e	Well ID	Completion D Current Operator	Elevation	Elevation R	Elevation Elevation Refi Final Statu-Lat		Long	Permit Date !	SPUD Date	Long Permit Date SPUD Date TD Formation N: Total Depth Pe	al Depth Pe
471	47103702890000	UNKNOWN		GR	PSEUDO	39.653169	39.653169 -80.81888				0 70
471	103000140000	47103000140000 12/1/1929 LEATHERWOOD INCORPORATED	790 GR	GR	D&A	39.632704	-80.805742	10/17/1929	11/1/1929	39.632704 -80.805742 10/17/1929 11/1/1929 BIG INJUN /SD/	1926 00
471	47103716450000	UNKNOWN		ତ୍ଲ	UNKWN	39.651717 -80.818692	-80.818692				0 71
471	47103716490000	UNKNOWN		ଦ୍ଲ	UNKWN	39.631398 -80.794669	-80.794669				0 71
471	103716480000	47103716480000 8/13/1925 UNKNOWN	888	GR.	D&A-OG	D&A-OG 39.634591 -80.795796	-80.795796	6/29/1925	6/29/1925 7/14/1925 HAMPSHIRI	HAMPSHIRE	2842 71

RECEIVED
Office of Oil and Gas

SEP 2 9 2017

WV Department of 144 9 Permit Environmental Protection

Attachment6/2018

API Number 47 -	103 _	02793
Operator's	Well No. s	MITH 2H

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 Martinsville
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.?
Proposed Disposal Method For Treated Pit Wastes:
Land Application
Underground Injection (UIC Permit Number 0014, 8462, 4037
Reuse (at API Number Various
Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain
Yes, The closed loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then will closed loop system be used? If so, describe: Yes, The closed loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then prepared for transportation to an off-site disposal facility.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. See Attached
-If oil based, what type? Synthetic, petroleum, etc. Synthetic Mud
Additives to be used in drilling medium? See Attached
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number? See Attached List
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature
Company Official (Typed Name) Victoria J. Roark
Company Official Title Permitting Supervisor
4
Subscribed and sworm before me this day of 20 photographic of FICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC
My commission expires 8-24-22 My commission expires My Commission Expires Aug. 2412022018

Operator's Well No. SMITH 2H

Proposed Revegetation Trea	atment: Acres Disturbed n	o additional Prevegetation p	н
Lime 3	Tons/acre or to corre		
Fertilizer type Gra	anular 10-20-20		
Fertilizer amount_	1/3	Tons	
Mulch 2		_Tons/acre	
		Seed Mixtures	
T	emporary	Perm	anent
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5 .	Alsike Clover	5
Annual Rye	15		
rovided). If water from the creage, of the land applicati	pit will be land applied, inc	d application (unless engineered plans incluctude dimensions (L x W x D) of the pit, and	ding this info have bee
Maps(s) of road, location, pirovided). If water from the creage, of the land applicate thotocopied section of invol	pit will be land applied, inc ion area. lved 7.5' topographic sheet.	d application (unless engineered plans incluctude dimensions (L x W x D) of the pit, and	ding this info have beed dimensions (L x W),
Maps(s) of road, location, pirovided). If water from the creage, of the land application	pit will be land applied, inc ion area. lved 7.5' topographic sheet.	d application (unless engineered plans inclu clude dimensions (L x W x D) of the pit, and	ding this info have beed dimensions (L x W),
Maps(s) of road, location, pirovided). If water from the creage, of the land applicate thotocopied section of involvant	pit will be land applied, inc ion area. lved 7.5' topographic sheet.	d application (unless engineered plans incluctude dimensions (L x W x D) of the pit, and	ding this info have beed dimensions (L x W),
Maps(s) of road, location, pirovided). If water from the creage, of the land applicate thotocopied section of involvant	pit will be land applied, inc ion area. lved 7.5' topographic sheet.	d application (unless engineered plans incluctude dimensions (L x W x D) of the pit, and	ding this info have beed dimensions (L x W),
Maps(s) of road, location, pirovided). If water from the creage, of the land applicate thotocopied section of involvant	pit will be land applied, inc ion area. lved 7.5' topographic sheet.	d application (unless engineered plans incluctude dimensions (L x W x D) of the pit, and	ding this info have beed dimensions (L x W),
Maps(s) of road, location, pirovided). If water from the creage, of the land applicate thotocopied section of involvant	pit will be land applied, inc ion area. lved 7.5' topographic sheet.	d application (unless engineered plans incluctude dimensions (L x W x D) of the pit, and	ding this info have beed dimensions (L x W),
Maps(s) of road, location, pirovided). If water from the creage, of the land applicate thotocopied section of involvant	pit will be land applied, inc ion area. lved 7.5' topographic sheet.	d application (unless engineered plans incluctude dimensions (L x W x D) of the pit, and	ding this info have beed dimensions (L x W),
Maps(s) of road, location, pirovided). If water from the creage, of the land applicate thotocopied section of involvant	pit will be land applied, inc ion area. lved 7.5' topographic sheet.	d application (unless engineered plans incluctude dimensions (L x W x D) of the pit, and	ding this info have beed dimensions (L x W),
Maps(s) of road, location, pirovided). If water from the creage, of the land applicate thotocopied section of involvant	pit will be land applied, inc ion area. lved 7.5' topographic sheet.	d application (unless engineered plans incluctude dimensions (L x W x D) of the pit, and	ding this info have beed dimensions (L x W),

WW-9 Rev. 1/12 API No. 47 - 103 - 2793
Operator's Well No. SMITH 2H

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 CORPORATIO	N	OP Code	494490923	
Watershed	Tributary of Doolin Run	Quadrangle	New	Martinsville	
Elevation	1,335' County	Wetzel	District	Magnolia	
Description of antic	ipated Pit Waste: No plt will be constructed on	this well pad			
Do you anticipate u	sing more than 5,000 bbls of water to comp	ete the proposed w	ell work? Yes _	✓ No	
Will a synthetic line	er be used in the pit?	f so, what mil.?	N/A	_	
Proposed Disposal !	Method For Treated Pit Wastes:				
	Land Application Underground Injection (UIC Permi	Number 9395, Ohio	Oil Gathering, 34670 S	ate Route 7. Newcort. OH 45768.	
		back will be collected			
	Off Site Disposal (Supply form WW	-9 for disposal loca	ntion)		
_	Other (Explain				
Drilling medium an	ticipated for this well? Air, freshwater, oil l	need ato Vertical St	ection sir & drilling se	an Curve and lateral brine mu	4
	d, what type? Synthetic, petroleum, etc N		occorr and a criming oc	up. Garro and lateral prints made	:
	j? See WW-9 Adendum				•
Will closed loop sys					
	sal method? Leave in pit, landfill, removed			site landfill	
-it left in p	it and plan to solidify what medium will be r offsite name/permit number? Wetzel County	used? Cement, IIm	e,	1	-
-candiii o	onsite name permit number:	, , , , , , , , , , , , , , , , , , , ,			_
provisions of the pe or regulation can lea I certify un application form and the information, I be	by the Office of Oil and Gas of the West V rmit are enforceable by law. Violations of ad to enforcement action. nder penalty of law that I have personal! d all attachments thereto and that, based on believe that the information is true, accura ormation, including the possibility of fine of	any term or conditi y examined and ar my inquiry of thos te, and complete.	on of the general m familiar with t e individuals imn	permit and/or other applica he information submitted tediately responsible for o	able law on this btaining
Company Official S	ignature	1/11/4	<u> </u>		
Company Official (Typed Name)	Tim McGre	gor		
Company Official T	itle	Land Coordin	nator		
Subscribed and swo	rn before me this 2/3 [†] day of	nay	, 20_12		
Danelli	R. Smoduly	<u> </u>	Notary Pu	blic	
	pires May 18, 2021				Office Of Cill and Gas
	2-33-1.8 JWH			OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA DANIELLE L SNODERLY RR2 Box 248A, Fairmont, WV 285 V Commission Expires May 18, 2	Environm 29 2017

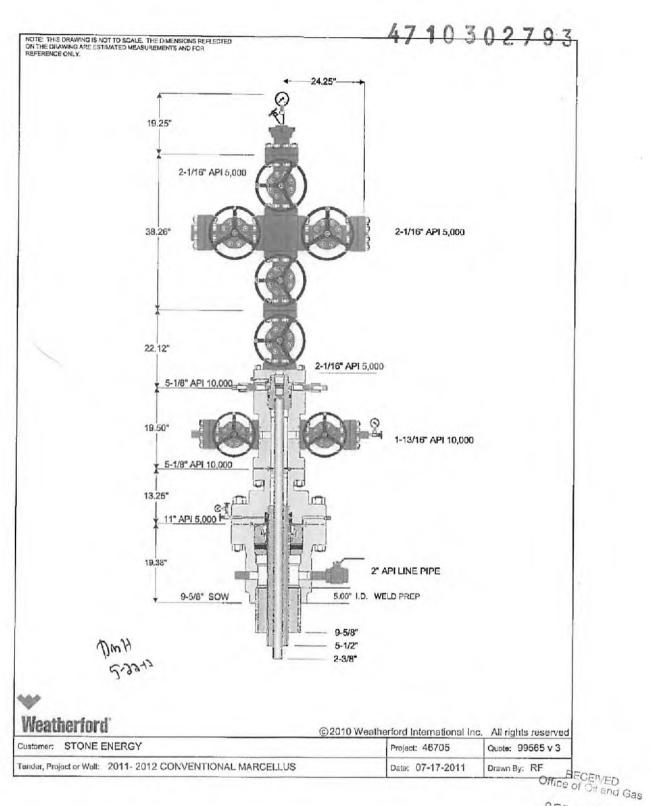
ww.	-9
Rev.	1/12

API No. 47	103	. 2793	
Operator's Well	No	SMITH 2H	_

Property Boundary	^		iversion ————	
Road		== s	pring	-
Existing Fence		< ∨	Vet Spot	Ö
Planned Fence			rain Pipe / size in inches	—(12)————— >>
Stream	~»~»	~	Vaterway —	
Open Ditch				_ > _ -
Rock	<u> రేద్దిర్త</u> ేద్ద	-		
	†	٨	rtificial Filter Strip	***************************************
North	N	F	it: Cut Walls	
Buildings		P	t Compacted Fill Walls	American Control of the Control of t
Water Wells	₩ W		rea for Land Application I Pit Wasto	
Drill Sites	()	·	TR VVSSIU	
Proposed Revegetation Treat	tment: Acres Disturbed	14.22	Prevegetation	рН
Lime 3.0	Tons/acre or to correct to	o nH	6.5	
		•		
Fertilizer (10-20-20	or equivalent) 500	_lbs/acre (50	0 lbs minimum)	
Mulch	2 to 3	ons/acre		
		Seed Mixtu	res	
	ea I		,	Area II
Seed Type	lbs/acre		Seed Type	lbs/acre
Tail Fescue	40		Tall Fescue	40
	40			40
Annual Rye	10		Annual Rye	10
Ladino Clover	5		Ladino Clover	5
Birdsfoot Trefoil	10		Birdsfoot Trefoil	10
Attach: Drawing(s) of road, location Photocopied section of invol	pit and proposed area for land, ved 7.5' topographic sheet.	d application.		
Plan Approved by:	<u>'</u>			
Comments:				
Title: 01 + 655 7	ngpe uhr/	_ Date	: 5-22-12	
tueid i/calement ("	<u></u>			

Office of Oil and Gas
SEP 2 9 2017

WV Department of Environmental Protection



SEP 2 9 2017

Environmental Protection



STONE ENERGY CORPORTATION

Addendum for

Planned Additives to be Used in Fracturing or Stimulations

Listed below are the chemicals used in addition to water and sand (CAS-No 14808-60-7) and their respective quantities for slick water fracturing;

- 0.5 gal/thousand gallons of water Friction Reducer (CAS-No 7783-20-2)
- 0.25 gal/thousand gallons of water Bacteria Control (CAS-No 11-30-8)
- 0.25 gal/thousand gallons of water Clay Stabilizer (CAS- No 75-57-0)
- 0.75 gal/thousand gallons of water Surfactant (CAS-No Proprietary)
- 0.25 gal/thousand gallons of water Scale Inhibitor (CAS-No 7601-54-9 & 107-21-1)
- 2000 gal of 15% HCl (CAS-No 7647-01-0) per stage with/ 2 gal/thousand gallons of acid Corrosion Inhibitor (CAS-No 67-56-1, 107-19-7, & Propretary) and 6 pints/thousand gallons of acid — Iron Stabilizer (CAS-No 6381-77-7)
- A 15 lb. Linear Gel and breaker is sometimes used during a stage but the exact amount is not known until the stimulation is in progress (CAS-No Proprietary & 7727-54-0)

DWH 2-8-8-19

Office of Oil and Gas

SEP 2 9 2017

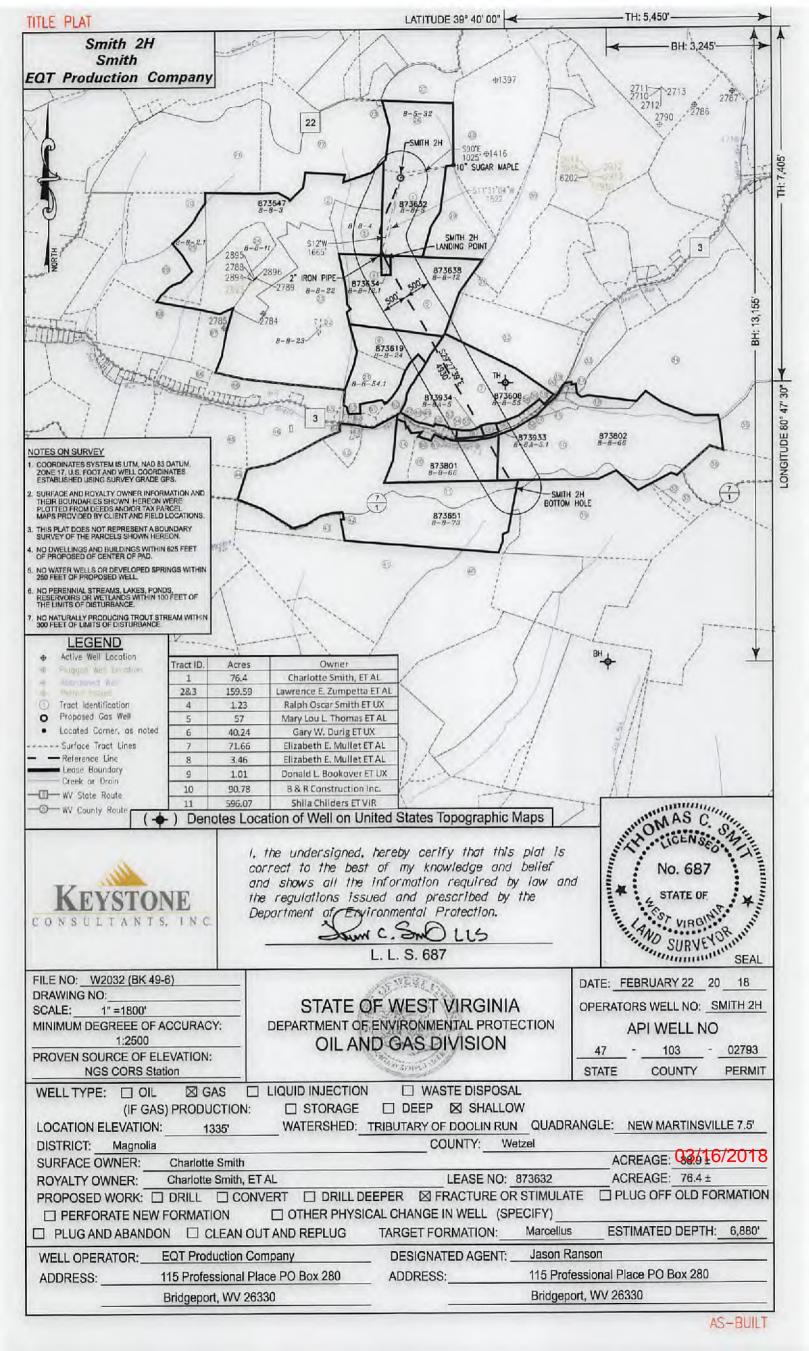
Wy Department of Environmental Protection



Site Specific Safety Plan

EQT Smith Pad New Martinsville Wetzel County, WV

Smitt-2H	For Wells:	
Date Prepared: June 19, 2017		
Legional Lord Supervisor		WV Oil and Gas Inspector Oil For Tospe chr
Title 8/21/17 Date		Title
		23.0



Smith 2H Smith **EQT Production Company**

1 2 3 4 5 6 7	8 8	3		Magnotia	Charlotte Smith	38.9
3 4 5 6	_	3				
4 5 6 7	2		Wetzel	Magnolia	Lawrence E. Zumpatta ET AL	72.86
5 6 7		4	Wetzel	Magnolia	Lawrence E. Zumpetta ET AL	15.28
7	.8	12.1	Wettel	Magnottia	Raiph Oscar & Jones Kay Smith	1.23
7	8	12	Wetzel	Magnalia	Oavid L & Raigh G Smith	58:15
	- 8	24	Wetzel	Magnolia	Gary W. & Linda I. Durig	18-32
-	.8	55	Wetzel	Magnolla	Cathy M. Westfall ET AL	17.56
ā	-84	5		Magnelia	Cathy M. Westfall ET AL	29
9	84	51	Wetsel	Magodia	Donald L. S. Brenda K. Brookover	1.07
10	8	66	Wetzel	Magodilia	Mark I. Cochran	134.66
11	.0	73	Wetzel	Magnolia	Burwell Newman	154 1
13	8	53	Wetzel	Magnolla	Ronald & Viola Newman	6.81
13		11.12	Wetzet	Magnolla	Ronald & Viola Newman	1.1
14	8	64	Wetzel	Magnotta	Peter Pitsenberger	5.78
19	8	66.2	Wetzel	Magnolia	Mars I. & Mary Beth Cochran	2.47
16	8	66.1		Magnolia	Mark I, Cochran	10.53
17	8	66.4	Wetzel	Magnotta	Mark I. Cochran	31,53
18	8	55.1	Wetrel	Magnofia	Mark I. & Mary Beth Cochran	0.34
19	8	28.1	Westwell	Magnotia	Mark J. Cochran	0.17
20	8	56.3		Magnolia	Mark I. Cocrean	0.32
21	8	54.1		Magiclia	Gary W. & Linda J. Durig	22.47
22	H	23		Magnolia	Lawrence E. Zumpetta ETAL	0.27
23	8	27	Wetrol	Magnolia	Lawrence E. Zumpetta ET AL	107,5
24	8	11	Water	Magnetta	Lawrence E. Zumpetta ET AL	36.80
24	8	2.1		Magnolia	Lawrence E. Zumpetta ET AL	18.15
					George 5. Schupbach	37.5
26	5	32		Magazila		
27	5	26.2		Magaolia	Franklin Ray Blake	17.73
28	5	33		Magnolia	Franklin Ray Blake	33.00
29	8	- 6		Magsolia	Kocher Albert HRS	
30	8	7		Magnolia	Gery Lemons	30.19
31	8	13		Magnolia	Gary Lemons	5.57
32	8	25		Magnolia	Cathy M. Westfall ET AL	57,68
33	8	28	Wetzel	Magnolia	Raymond L & Ellen E. Ebart	17.33
3.4	9	7	Wetzel	Magnona	James B. Stewat ET AL	164.7
35	9	15	Wetzel	Magnolia	David L. Geddard	52.95
36	9	27.	Wetzel	Magnolia	David L. Goddard	59.3
37	9	24	Wetzel	Magnotta	Clinton L & Albert E, Leasure	10.03
38	9	25	Wetzel	Magnolia	Ginton L & Albert E. Leature	1.25
39	- 8	74	Wetzel	Magnolia	Thomas Eugene Presley	97.1
40	13	5	Wetzel	Magnolia	Anna Lee & James Dennis	83.79
41	8	80	Wetzel	Magnolia	Charles 5. Corlist	100 6
42	8	73.1		Magnolla	Russell F. Albright	0.14
43	8	81		Magnolia	Michael J. & Jeanne K. Barnes	15.00
-44	8	78		Magnolia	Clyde D. & Donna K. Dennis	26.94
45	8	61		Magnolia	Jimmie L. & Rex A. Thomas	25.72
46	A	62		Magnolia	Gary W. & Linda J. Durig	57.13
47	8	64		Magnolia	Peter Pitsenberger	0.32
46	A	64.2		Magaplia	Leonard H. Dates Ir	0.25
49	4	85	Wetzel	Magnolia	Raymond L. Pribble	0.72
50	8	65	Wetrel	Magnolia	fason T. & Tracy L. Goodrich	0.53
51	8	65.1	Matrel	Magnolia	Mark I Cochran	0.16
-	BA.	20	Wetzel		Cathy M. Westfail ET AL	0
52	BA BA				Daniel R. Westfail	0.35
53		19		Magnolla	Daniel R. Westfall	0.34
54	SA SA	16		Magnolia		0.3
55	EA	17	Wetzel		Daniel R. Westfall	0.22
56	EA	5.2	Wette	Magnolia	Danny Lee Neff	
57	BA	4	Wetzel	Magnotia	Danny Lee & Usa H. Neff	1.22
58	BA	3		Magnolia	Michael J. Miller	0.24
59	BA	1	Wetzel		Michael J. Miller	0.46
60	8	54		Magnolia	Bartiera E. Palmer	7.64
61	8.	54.2		Magnolia	David Lee & Freds Lough	1.8
62	- 8	53.2	Wetre	Magnoila	Christy Fluhercy	0.65
63	В	53.3	Wetze	Magnolia	Raymond Pribble	0.4
64	- 6	53.1		Magnolia	Debra L. Hohn	0.57
65	- 8	54.3		Magnotia	Dears L. Hohn	0.27
66	E	38.2		Magnotia	George R. Mullett	8.28
67	В	21		Magnolia	Michael L. Mullett	12.2
60	- 8	20		Magnolia	Billy Dairell Morris	54.6
69	8	10		Magnolla	Myron H. Helmick	35.5
70	8	2		Magnotia	J W Schamp EST	37.5
71	5	30	Wetzel		Wayne A. & Virginia L. Schupbach	93.8
72	5	31		Magnotta	John William Burton	66.58
73	-	31.1		Magnolia	Schupbach Cemetery	0.27

1" = 2000' 1670 •1416 SMITH 2H 2500'

SMITH 2H As-Built coordinates are NAD 27 N: 420,232,000 E: 1,630,826,000 NAD 27 Lat: 39,646383 Long: -80,811084 NAD 83 UTM N: 4,388,536,166 E: 516,225,853

SMITH 2H As-Built Landing Point coordinates are NAD 27 N: 418,740,730 E: 1,630,522,170 NAD 27 Lat: 39,642277 Long: -80,812066 NAD 83 UTM N: 4,388,080,291 E: 516,140,859

SMITH 2H As-Built Bottom Hole coordinates are NAD 27 N: 414,449.010 E: 1,632,946.570 NAD 27 Lat: 39.630593 Long: -80.803236 NAD 83 UTM N: 4,386,785.138 E: 516,901.259

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

meridian. 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 W County Route W State Route

FILE NO:

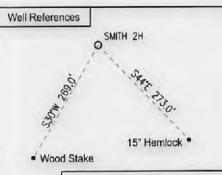


SMITH 3H O O SMITH 5H

SMITH 1H O O SMITH 7H

SMITH 2H O O SMITH 8H

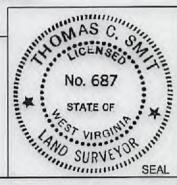
SMITH 4H O O SMITH 6H





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 LLS L. L. S. 687



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

Bridgeport, WV 26330

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

OF MER CITY

DATE: FEBRUARY 22 OPERATORS WELL NO: SMITH 2H API WELL NO - 103 - 02793

NGS CORS Station		The state of the s	STA	ATE COUN	NTY PERMIT
WELL TYPE: □ OIL ☑ GAS	☐ LIQUID INJECTION	☐ WASTE DISPOSAL			
(IF GAS) PRODUCTION	N: STORAGE	☐ DEEP ☒ SHALLOV	N		Charles and A
LOCATION ELEVATION: 1,335'	WATERSHED:	TRIBUTARY OF DOLLIN RUN	QUADRANGL	E: NEW MAR	TINSVILLE 7.5'
DISTRICT: Magnolia		COUNTY: We	tzel		
SURFACE OWNER: Charlotte Smith	1			ACREAGE:	03/16/2018
ROYALTY OWNER: Charlotte Smith,	ETAL	LEASE NO: _	873632	ACREAGE:	76.4 ±
PROPOSED WORK: ☐ DRILL ☐ CO	ONVERT DRILL DE	EPER S FRACTURE OR	STIMULATE [☐ PLUG OFF C	OLD FORMATION
□ PERFORATE NEW FORMATION	☐ OTHER PHYSIC	CAL CHANGE IN WELL (SPI	ECIFY)		
☐ PLUG AND ABANDON ☐ CLEAN	OUT AND REPLUG	TARGET FORMATION:	Marcellus	ESTIMATED D	DEPTH: 6,880'
WELL OPERATOR: EQT Production	Company	DESIGNATED AGENT: _	Jason Ranson	l .	
ADDRESS: 115 Professional	Place PO Box 280	ADDRESS:	115 Profession	nal Place PO Bo	x 280

ADDRESS: 115 Professional Place PO Box 280 Bridgeport, WV 26330

WW-6A1 (5/13)

Operator's	Well No.	SMITH 2H

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

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Various	Stone Energy Corp.	EQT Production Company	**	183A/305

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, RECEIVED
Office of Oil and Can 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: **Permitting Supervisor**

> > Page 1 of

FEB 28 20 3

W Departm

^{**} Per West Virginia Code Section 22-6-8.

6A1 Lease Addendum

Smith 2H

Parcel Number	Grantor, Lessor, ect.	Grantee, Lessee, ect.	Royalty	Book/Page
8-8-5	Sonny L Smith (Charlotte Smith)	Stone Energy Corporation	1/8th	112A/96
8-8-3, 8-8-4	Lawrence E Zumpetta et ux	Stone Energy Corporation	1/8th	88A/309
8-8-12.1	Ralph O Smith	Stone Energy Corporation	1/8th	113A/571
8-8-12	Mary Lou L Thomas et ux	Stone Energy Corporation	1/8th	364/233
8-8-24	Gary W Durig	Stone Energy Corporation	1/8th	111A/231
8-8-55	Elizabeth M Mullett	Stone Energy Corporation	1/8th	108A/902
8 -8 A-5	Donald L Brookover et ux	Stone Energy Corporation	1/8th	137A/326
8-8-66	B&R Construction Inc.	Stone Energy Corporation	1/8th	143A/378
8-8-73	Shila Childers Et Vir	Stone Energy Corporation	1/8th	88A/215
8-8-4	Charles McGowen Jr. et ux	Stone Energy Corporation	1/8th	88A/305
8-8-4	John C Bober, III et us	Stone Energy Corporation	1/8th	88A/313
8-8-4	David T Griffith	Stone Energy Corporation	1/8th	88A/217
8-8-4	Jay H Renner	Stone Energy Corporation	1/8th	88A/93
8-8-4, 8-8-24	Lynn McCray	Stone Energy Corporation	1/8th	58/509
8-8-12	David Smith	Stone Energy Corporation	1/8th	112A/96
8-8-12	Milton Smith	Stone Energy Corporation	1/8th	112A/96
8-8-12	Mary Lou Smith	Stone Energy Corporation	1/8th	112A/96

RECEIVED Gas
Office of Oil and Gas
FEB 28 2018

WV Department of Environmental Protection

WW-6A1 (1/12)

4710302793

Operator's Well No.	SMITH 2H
-	

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:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Charles McGowen Jr., et ux	Stone Energy Corporation	1/8	88A/305
Lawrence E Zumpetta, et ux	Stone Energy Corporation	1/8	88A/309
John C Bober, III et ux	Stone Energy Corporation	1/8	88A/313
David T Griffth	Stone Energy Corporation	1/8	88A/317
Jay H Renner	Stone Energy Corporation	1/8	89A/93
Lynn McCray	Stone Energy Corporation	1/8	58/509

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:	STONE ENERGY CORPORATION
Ву:	111111
Its:	Land Coordinator

WW-6A1	(Attachment

Operator's Well Number:

Smith Pad 6 2H

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
Raiph O Smith	Stone Energy Corporation	1/8	113A/571
David Smith	Stone Energy Corporation	1/8	112A/96
Milton Smith	Stone Energy Corporation	1/8	112A/96
Mary Lou Smith	Stone Energy Corporation	1/8	112A/95
Sonny L. Smith	Stone Energy Corporation	1/8	112A/96
Gary W. Durig	Stone Energy Corporation	1/8	111A/231
Elizabeth M. Mullett	Stone Energy Corporation	1/8	108A/902
· · ·			
		i —	
		 	
		 	
		il	

Under the eath 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:

Well Operator Stone Energy Corporation

RECEIVED
Office of Oil and Gas
FEB 2 8 2018

VALUE partment of Environmental Protection



June 12, 2017

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

Re: Smith well pad, well numbers SMITH 2H, SMITH 4H, SMITH 5H, SMITH 6H, SMITH 7H
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.

Sincerely,

Vicki Roark

Permitting Supervisor-WV

Office of Oil and Gas

SEP 2 9 2017

WV Department of Environmental Protection

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

Date of Notic	ce Certification: 9-28-17		API No. 4	7- 103 - 02793
			Operator's	Well No. SMITH 2H
			Well Pad I	Name: SMITH
Notice has I	peen given:			
Pursuant to the below for the	te provisions in West Virginia Code § 22-6A, tract of land as follows:	the Operator has pro	ovided the rea	quired parties with the Notice Forms listed
State:	WV	LITTA CALLED DO	Easting:	516226.07
County:	Wetzel	UTM NAD 83	Northing:	4388536.15
District:	Magnolia	Public Road Ace	cess:	Wetzel County Route 22
Quadrangle:	New Martinsville	Generally used f	farm name:	Smith, Sonny & Charlotte
Watershed:	Tributary of of Doolin Run			
prescribed by it has provide information re of giving the requirements	West Virginia Code § 22-6A-7(b), every p the secretary, shall be verified and shall conted the owners of the surface described in stequired by subsections (b) and (c), section six surface owner notice of entry to survey pur of subsection (b), section sixteen of this are	ain the following intubdivisions (1), (2) atteen of this article; (arount to subsection ticle were waived in	formation: (1- and (4), sub- ii) that the re (a), section writing by	4) A certification from the operator that (i) section (b), section ten of this article, the quirement was deemed satisfied as a result ten of this article six-a; or (iii) the notice

Pursuant to West Virginia Code § 22-6A, the Opthat the Operator has properly served the require *PLEASE CHECK ALL THAT APPLY	erator has attached proof to this Notice Certification d parties with the following:	OOG OFFICE USE ONLY
☐ 1. NOTICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED
☐ 2. NOTICE OF ENTRY FOR PLAT SURV	YEY or <a> NO PLAT SURVEY WAS CONDUCTED	☐ RECEIVED
3. NOTICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	RECEIVED/ NOT REQUIRED
	☐ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
4. NOTICE OF PLANNED OPERATION		RECEIVED
5. PUBLIC NOTICE	RECEIVED Office of Oil and Gas	RECEIVED
■ 6. NOTICE OF APPLICATION	SEP 2 9 2017	RECEIVED
	WV Department of Environmental Françation	

Required Attachments:

of this article have been completed by the applicant.

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

WW-6AC (1/12)

Certification of Notice is hereby given:

4710302793

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:
 Permitting Supervisor
 Facsimile:
 304-848-0041

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



Subscribed and sworn before me this 24 day of

2017

Notary Public

My Commission Expires

8-24-22

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.

WW-6A (9-13)

API NO. 47- 103 - 02793
OPERATOR WELL NO. SMITH 2H
Well Pad Name: SMITH

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

Date of Notice: 9-28-17 Date Permit Application Filed: 9-28-17 Notice of: PERMIT FOR ANY CERTIFICATE OF APPROVAL FOR THE	
Notice of: PERMIT FOR ANY CERTIFICATE OF APPROVAL FOR THE	
✓ PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE	
— Seminering of Markot Million	
WELL WORK CONFIDENCE OF THE POLICE OF THE PO	
WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT	
Delivery method pursuant to West Virginia Code § 22-6A-10(b)	
☐ PERSONAL ☐ REGISTERED ☑ 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 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 propose 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 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 d	of e ed to
☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice ☐ Well Plat Notice is hereby provided to:	
☑ SURFACE OWNER(s) ☑ COAL OWNER OR LESSEE	
Name: See Attached Name: See Attached	
Address: Office of D	N/CE
	IVED I and Gas
	IVED il and Gas
Name: ☐ COAL OPERATOR SEP 2 9 Address: Name:	9 2017
Name: ☐ COAL OPERATOR SEP 2 9 Address: Name:	9 2017
Name: COAL OPERATOR SEP 2 9 Address: Name: Address: WV Ground SURFACE OWNER(s) (Road and/or Other Disturbance) Name: Address: TSURFACE OWNER OF WATER WELL	9 2017
Name: ☐ COAL OPERATOR Address: ☐ Name: Address: ☐ SURFACE OWNER(s) (Road and/or Other Disturbance) Name: See Attached ☐ SURFACE OWNER OF WATER WELL	9 2017
Name: COAL OPERATOR Address: Name: Address: WW Grad and See Attached Name: See Attached Address: Surface OWNER(s) (Road and/or Other Disturbance) Name: See Attached Address: Surface OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)	9 2017
Name: COAL OPERATOR Address: Name: Address: WV Special SURFACE OWNER(s) (Road and/or Other Disturbance) Name: See Attached Address: Surface OWNER OF WATER WELL And/or WATER PURVEYOR(s) Name: See Attached	9 2017
Name: COAL OPERATOR Address: Name: Address: SEP 2 9 SURFACE OWNER(s) (Road and/or Other Disturbance) Name: See Attached Address: See Attached Address: Address: Address: Name: See Attached Name: See Attached Address: Address:	9 2017
Name:	9 2017
Name:	9 2017
Name:	9 2017

W	W.	-6A
(8-	-13)

API NO. 47-103 - 02793	<u> </u>
OPERATOR WELL NO.	SMITH 2H
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 Construction of an impoundment or pit.

Office of Oil and Gas

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 WV Department of Environmental Protection 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 impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items WW-6A (8-13)

API NO. 47-103 - 02793
OPERATOR WELL NO. SMITH 2H
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 EIVED application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as its the chast location or construction of the applicant's proposed well work to the Secretary at:

SEP 2 9 2017

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

WV Department of Environmental Protection

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

WW-6A (8-13)

API NO. 47- 103 - 02793
OPERATOR WELL NO. SMITH 2H
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 http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

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

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

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

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



WW-6A (8-13)

API NO. 47-103 - 02793 OPERATOR WELL NO. SMITH 2H

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.

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Pamela Sykes
EQT Production
PO Box 280
Bridgeport, WV 26330
My Commission Expires Aug. 24, 2022

Subscribed and sworn before me this

2017

Notary Public

My Commission Expires_

Office of Oil and SEP 29 20.7

Topo Quad: NEW MARTINSVILLE, WV - OHIO 7.5' 1" = 1000' Scale: County: WETZEL Date: 29 JUNE 2017 District: MAGNOLIA 0492-17 Project No: SMITH WELL PURVEYOR MAP Water Торо Run 900 1200 LEGEND SCALE: 1 INCH = 1000 FEET Water Well 3000 1000 20001 Cistern/Spring Stream. EQT Production Co. Inc. SEP 2 9 1017 115 Professional Place, P.O. Box 280v Dependent MV 26330 Blue Mountain Inc. 11023 MASON DIXON HIGHWAY BURTON, WV 26562 PHONE: (304) 862-6486 Bridgeport, WV 26330 03/16/2018

Operator Well No. SMITH 2H

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

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

Notice Time Date of Notic	Requirement: Notice shall be provided at lease: 8/4/17 Date Permi	ast TEN (10) days prior to filing a	permit application	
Delivery me	hod pursuant to West Virginia Code § 22-0	5A-16(b)		
☐ HAND DELIVE	CERTIFIED MAIL RETURN RECEIPT REQUI	ESTED		
receipt request drilling a hor of this subsection ma	V. Va. Code § 22-6A-16(b), at least ten days parted or hand delivery, give the surface owner izontal well: <i>Provided</i> , That notice given puttion as of the date the notice was provided to ay be waived in writing by the surface owner. le, facsimile number and electronic mail address.	notice of its intent to enter upon to resuant to subsection (a), section to the surface owner: <i>Provided</i> , how The notice, if required, shall income.	he surface owner's en of this article sat wever, That the noti lude the name, addr	land for the purpose of tisfies the requirements are requirements of this tess, telephone number,
	reby provided to the SURFACE OWN			
Name: See Atta		Name: See Attached		
Address:		Address:		
the surface ov State: County:	Vest Virginia Code § 22-6A-16(b), notice is horized with the purpose of drilling a horized with	ontal well on the tract of land as for UTM NAD 83 Easting: Northing:	well operator has a bllows: 516226.07 4388536.15	n intent to enter upon
District:	Magnolia	Public Road Access:	Wetzel County Route 22	2
Quadrangle:	New Martinsville	Generally used farm name:	Smith, Sonny & Charlott	te
Watershed:	Tributary of of Doolin Run			
Pursuant to V facsimile numerilated to hor	Shall Include: Vest Virginia Code § 22-6A-16(b), this not ober and electronic mail address of the open izontal drilling may be obtained from the Se 57 th Street, SE, Charleston, WV 25304 (304	rator and the operator's authorized cretary, at the WV Department of	ed representative. A f Environmental Pr	Additional information rotection headquarters.
	reby given by:			
-	EQT Production Company	_ Authorized Representative:	Victoria Roark	
Address:	115 Professional Place PO Box 280	_ Address:	115 Professional Plac	ce PO Box 280
Bridgeport WV 26	330	Bridgeport WV 26330		Pror.
Telephone:	304-848-0076	Telephone:	304-848-0076	RECEIVED Office of Oil and Gas
Email:	vroark@eqt.com	Email:	vroark@eqt.com	0==
Facsimile:	304-848-0041	Facsimile:	304-848-0041	SEP 2 9 2017
Oil and Gas	Privacy Notice:			WV Department of

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.

Operator Well No. SMITH 2H

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

	RN RECEIPT REQUESTED	DELIVERY		
return receip the planned required to be drilling of a damages to the	t requested or hand delivery, give the operation. The notice required by the provided by subsection (b), section horizontal well; and (3) A propose the surface affected by oil and gas open to the su	e surface owner whose lan this subsection shall inclu- nate of this article to a surface use and compen derations to the extent the d	d will be used for ide: (1) A copy face owner whose sation agreement amages are com	ication, 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 nt containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
	reby provided to the SURFACE Of street in the records of the sheriff:			
Name: See Atta				
Address:		Addres	01	
Notice is her Pursuant to V operation on	Vest Virginia Code § 22-6A-16(c), n the surface owner's land for the pur	notice is hereby given that t	he undersigned	well operator has developed a planned act of land as follows:
Notice is her Pursuant to V operation on State: County:	Vest Virginia Code § 22-6A-16(c), n the surface owner's land for the pur WV Wetzel	notice is hereby given that to pose of drilling a horizonta	he undersigned al well on the tra Easting: Northing:	act of land as follows: 516226.07 4388536.15
Notice is her Pursuant to V operation on State: County: District:	Vest Virginia Code § 22-6A-16(c), n the surface owner's land for the pur wv	notice is hereby given that to pose of drilling a horizonta UTM NAD to Public Road	he undersigned al well on the tra Easting: Northing: Access:	act of land as follows: 516226.07 4388536.15 Wetzel County Route 22
Notice is her Pursuant to V operation on State: County:	Vest Virginia Code § 22-6A-16(c), n the surface owner's land for the pur WV Wetzel Magnolia	notice is hereby given that to pose of drilling a horizonta UTM NAD to Public Road	he undersigned al well on the tra Easting: Northing:	act of land as follows: 516226.07 4388536.15
Notice is her Pursuant to V operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to V to be provide horizontal we surface affect information in headquarters,	West Virginia Code § 22-6A-16(c), n the surface owner's land for the pur WV Wetzel Magnolia New Martinsville Tributary of of Doolin Run Shall Include: Vest Virginia Code § 22-6A-16(c), t ed by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use a ted by oil and gas operations to the related to horizontal drilling may be located at 601 57th Street, SE,	pose of drilling a horizonta UTM NAD 8 Public Road Generally us his notice shall include: (1 to a surface owner whose and compensation agreement extent the damages are one obtained from the Secre	he undersigned all well on the tra Basting: Northing: Access: ed farm name: A copy of this e land will be understand arm ompensable undersy, at the WV	act of land as follows: 516226.07 4388536.15 Wetzel County Route 22
Notice is her Pursuant to V operation on State: County: District: Quadrangle: Watershed: This Notice Sepursuant to V to be provide horizontal we surface affect information in headquarters, gas/pages/def	West Virginia Code § 22-6A-16(c), n the surface owner's land for the pur W Wetzel Magnolia New Martinsville Tributary of of Doolin Run Shall Include: West Virginia Code § 22-6A-16(c), t ed by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use a ted by oil and gas operations to the related to horizontal drilling may be located at 601 57th Street, SE, fault.aspx.	pose of drilling a horizonta UTM NAD 8 Public Road Generally us his notice shall include: (1 to a surface owner whose and compensation agreement extent the damages are contained from the Secret Charleston, WV 25304	he undersigned all well on the tra Basting: Northing: Access: ed farm name: A copy of this e land will be understand arm ompensable undersy, at the WV	act of land as follows: 516226.07 4388536.15 Wetzel County Route 22 Smith, Sonny & Charlotte code section; (2) The information required ased in conjunction with the drilling of a noffer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection
Notice is her Pursuant to V operation on State: County: District: Quadrangle: Watershed: This Notice & Pursuant to V to be provide horizontal we surface affect information in headquarters, gas/pages/del	Vest Virginia Code § 22-6A-16(c), n the surface owner's land for the pur WV Wetzel Magnolia New Martinsville Tributary of of Doolin Run Shall Include: Vest Virginia Code § 22-6A-16(c), t ed by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use a ted by oil and gas operations to the related to horizontal drilling may be located at 601 57 th Street, SE, ault.aspx. T: EQT Production Company	pose of drilling a horizonta UTM NAD 8 Public Road Generally us his notice shall include: (1 to a surface owner whose and compensation agreement extent the damages are one obtained from the Secre	he undersigned all well on the tra Basting: Northing: Access: ed farm name: A copy of this e land will be understand arm ompensable undersy, at the WV	act of land as follows: 516226.07 4388536.15 Wetzel County Route 22 Smith, Sonny & Charlotte code section; (2) The information required ased in conjunction with the drilling of a noffer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting

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 Office of Oil and Gas DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WV Department of Environmental Profection

03/16/2018



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 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the Smith Pad, Wetzel County 47-103-02793

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.

Regional Maintenance Engineer Central Office O&G Coordinator

Ce: Nick Bumgardner

EQT Production Company

CH, OM, D-6

File

Office of Oil and Gas

SEP 2 9 2017

WV Department of Environmental Protection

Anticipated Frac Additives Chemical Names and CAS numbers

4710302793

<u>Material</u>	Ingredient	CAS Number
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



LOCATION MAP

N

STE LOCATION

THE PROJECT IS LOCATED AT 59.050510, -80.812201 (NADBS WVN) THE CORRUNATES ARE REFERENCED FROM THE PAR ENTRANCE AND CAN BE LOCATED BY TAKING DOOLIN RIDGE ROAD ONE HILLE EAST FROM NOW PARTIMOVILLE TURN LEFT CANTO SCHUBBACH RIDGE AND TRAVEL APPROXIMATELY 2.4 MILES AND THE PAD INTRANCE 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 55/05/1002256.



WVDEP OOG ACCEPTED AS-BUILT

VAJ 9/13/2017

SHEET INDEX	
PG	DRAWING NAME
1	COVER SHEET
8	GENERAL DETAILS #1
3	GENERAL DETAILS #2
4	EXISTING SITE PLAN
5	OVERALL SITE PLAN
ě	OVERALL PROPOSED SITE PLAN W/ ORTHO
7	DETAIL SITE PLAN #1
8	PROFILES
9	CONSTRUCTION DETAILS

EQT

SMITH WELL SITE

ENTRANCE OF 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 1, 2017

Blue Mountain Inc.

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

NOTE: DRAWING WAS CREATED ON 22X34 PAPER. 11X17 DRAWINGS ARE HALF SCALE, REFER TO SCALE BAR FOR PROPER SCALING.



LOCATION MAP

PROPERTY OWNERS

I. SMITH SONNY L & CHARLOTTE 08-08-05 Z SCHUPBACH GEORGE S 08-05-52



Know what's below. Call before you dig. Blue Mountain Inc Engarcest and Land Servente Witness On art Small Brane Co. M. M. Marier Deep Fra.

TO PROFESSIONAL PLACE
PESSIONAL BUILDING FOUR
BRIDGEPORT, WY 26.3.0

SMITH WELL SITE

Cover Sheet

FEVE ON



COAR IN COARS

Development Service (1977)

SHEET NO. I

