

### west virginia department of environmental protection

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

Wednesday, September 13, 2017 WELL WORK PERMIT Horizontal 6A / Fracture

EQT PRODUCTION COMPANY 120 PROFESSIONAL PLACE BUILDING II BRIDGEPORT, WV 26330

Re: Permit approval for SMITH 4H

47-103-02792-00-00

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

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

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

James A. Martin

Chief

Operator's Well Number: SMITH 4H

Farm Name: SMITH, SONNY AND CHARLOTTE U.S. WELL NUMBER: 47-103-02792-00-00

Horizontal 6A / Fracture

Date Issued: 9/13/2017

Promoting a healthy environment.

API Number: 103-02792 F

### **PERMIT CONDITIONS**

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

### **CONDITIONS**

- 1. 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.
- 2. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 3. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 4. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 5. 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.
- 6. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.



API NO. 47-103	- 02792	F
OPERATOR W	VELL NO.	SMITH 4H
Mall Dad Ma	CMITI	1

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

1) Well Operator: EQT Production Company	306686	Wetzel	Magnolia Ne	w Martinsville
	Operator ID	County	District Qu	adrangle
2) Operator's Well Number: SMITH 4H	Well Pa	ad Name: SMI	TH	
3) Farm Name/Surface Owner: Smith, Sonny & Ch	arlotte Public Ro	ad Access: W	etzel County Ro	oute 22
4) Elevation, current ground: 1321 El	evation, proposed	l post-construc	tion: 1321	
5) Well Type (a) Gas <u>x</u> Oil	Un	derground Stor	age	
Other				
(b)If Gas Shallow x	Deep			
Horizontal X				DMH
6) Existing Pad: Yes or No yes 7) Proposed Torget Formation(a) Double (a) Asia	1 ml : 1			VMH 8-4-17
<ol> <li>Proposed Target Formation(s), Depth(s), Antic Marcellus, 6,899' TVD, 50', with rock pressure be</li> </ol>			Pressure(s):	8.71)
8) Proposed Total Vertical Depth: 6,899'				
9) Formation at Total Vertical Depth: Marcellus	Shale		Office	of Oil and Gas
10) Proposed Total Measured Depth: 12,030'			AUI	G 9 2017
11) Proposed Horizontal Leg Length: 5,392'			ψV	Department of mental Protection
12) Approximate Fresh Water Strata Depths:	100		Environ	mentari rottorio
13) Method to Determine Fresh Water Depths:	Depth of bit when wa	ter shows in the f	lowline or when drill	ling soap is injected
14) Approximate Saltwater Depths: 2,471'				
15) Approximate Coal Seam Depths: 1,146'				
16) Approximate Depth to Possible Void (coal mi	ine, karst, other):	None Anticip	ated	
17) Does Proposed well location contain coal sear directly overlying or adjacent to an active mine?	ms Yes	N	o X	
(a) If Yes, provide Mine Info: Name:				
Depth:				
Seam:				
Owner:				

OPERATOR WELL NO. SMITH 4H

Well Pad Name: SMITH

18)

### CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	LS	94.1	90'	90'	40- CTS
Fresh Water	13.375"	New	J55	54.5	1323'KB/1,308' GL	\323'KB-1,308' GL	1175- CTS
Coal	13.375"	New	J55	54.5	1323'KB-1,308' GL	1323'KB-1,308' GL	1175- CTS
Intermediate	9.625"	New	J55	36.0	2,502'	2,502'	643 Lead - 377 Tail CTS
Production	5.5"	New	P110	20.0	12,022'/	12,022'	422 Lead - 2,808 Tail
Tubing	2.375"	New	J55	4.7		6,100'	N/A
Liners	N/A						

& Existing

Dm H 8-4-17

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	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	
Intermediate	9.625"	12.25"	0.352"	3,520 psi	2814 psi	Class A	
Production	5.5"	8.75"	0.361"	12,360 psi	10112 psi	Class A	
Tubing	2.375"	N/A	0.190"	7,700 psi		N/A	N/A
Liners							

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### **PACKERS**

Kind:	WV Department of Environmental Protection
Sizes:	
Depths Set:	

API NO. 47- 103	- 02792	F
OPERATOR W	ELL NO.	SMITH 4H
Well Pad Na	me: SMITH	1

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

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WV Department of Environmental Protection

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 1, 5, 9, 13, 17, 21 and 25. Intermediate casing had no centralizers installed due to sloghing hole conditions. Production casing had rigid spiral centralizers placed on every fourth joint beginning with joint 1 to joint 216. Ran a total of 55 rigid spiral centralizers. Ran bow spring centralizers from joint 224 to joint 264on every eighth joint. A total of 6 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.

<sup>\*</sup>Note: Attach additional sheets as needed.

Wetzel

County:

WV Dept. of Environmental Protection

### STONE ENERGY - PROPOSED HORIZONTAL - Modification

Permit Issued: Revision: 12-Nov-13

10/12/2012 As Built Ground Elevation: 1321'

Kelly Bushing:

Rig:

Permit Number: 47-103-02792

Spud Date: TD Date: Rig Release Date:

District: Magnolia Prospect: Mary

Location: Surface: North = 4,388,530 East = 516,225 (UTM NAD 83) PBHL: North = 4,386,909 East = 517,084 (UTM NAD 83)

PTD: 12800' MD / 6880' TVD

HOLE PILOT HOLE WELLBORE **CASING & CEMENTING DATA** MW & HOLE SIZE **FORMATION TOPS** DIAGRAM DIRECTIONAL DATA **FLUID TYPE** DEV. 24" Hole then Driven 98' KB (80' BGL) CONDUCTOR PIPE Vertical Shallowest FW 80' TVD 20" x 3/8" wall L/S PE @ 98' (set in bedrock & grouted to surface) Pittsburgh Coal 1115' TVD 17-1/2" Hole Alr / Mist Deepest FW 1114' TVD 1300' TVD SURFACE CASING Vertical 13-3/8" 54.5# J-55 STC @ 1300' MD/TVD Self Water 1740' TVD Set through fresh water zones Little Lime 2166' TVD Set through coal zones 12-1/4" Hole · Big Lime 2196' TVD Stiff Form Cemented to surface Big Injun Sandstone 2296' TVD Base of Big Injun 2396' TVD 2600' TVD INTERMEDIATE CASING 9-5/8" 36.0# J-55 LTC @ 2600' MD/TVD Berea Sandstone 2765' TVD Set through potential salt water zones Set below base of Big Injun Gordon Sandstone 2986' TVD Cemented to surface 8-3/4" Hole Air / Dust Office of Oil and Gas KOP @ 6111' TVD Rhinestreet Shale 6338' TVD WBM 8-3/4" Hole in Curve Middlesex Shale 6495' TVD West River Shale 6512' TVD Geneseo Shale 6709' TVD Tully Limestone 6739' TVD Hamilton Shale 6764' TVD 8-3/4" Hole in Marcellus Shale 6799' TVD ~89.5\* WBM in Leteral Lateral Onondaga Limestone 6849' TVD TD @ 12800' MD / 6880' TVD Landing Point (LP) @ 7380' MD / 6830' TVD PRODUCTION CASING -89,5° angle 5-1/2" 20.0# P-110 CDC @ 12800' MD -151° azlmuth Top of Cement @ 1600' (~1000' inside 9-5/8")

103-02792 MOOD F

### 103-02792F

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

Revision: 25-Jun-14

47-103-02792 Smith #4H TOP HOLE (AFE# 2014-0004T) Permit Number: Well: Permit Issued: 10/12/2012 State: West Virginia Ground Elevation: 1321' Wetzel County: 15' Kelly Bushing: District: Magnolia

Prospect: Mary Rig: NOMAC Rig #237

Location: Surface: (N) 420,212' (E) 1,630,824' State Plane WV North NAD 27 Spud Date: 10/24/2013
PBHL: (N) 419,789' (E) 1,630,978' State Plane WV North NAD 27 TD Date: 10/30/2013
PTD: 5814' MD / 5777' TVD Rig Release Date: 10/31/2013

MW HOLE CASING & WELLBORE HOLE FORMATION & DEV. DIAGRAM CEMENTING DATA TOPS SIZE TYPE Pre-Set CONDUCTOR PIPE Vert Conductor 90' KB (75' BGL) 20" @ 90' (set in bedrock & cemented) Shallowest FW 100' TVD 17-1/2" Hole Pittsburgh Coal 1146' TVD (Hammer) TAM CAP Pkr set @ 1228' KB on 9-5/8" x 13-5/8" Deepest FW 1120' TVD SURFACE CASING Air / Mist 1323' 13-3/8" 54.5# J-55 STC @ 1323' MD/TVD - 1308' GL Set through fresh water and coal zones RED BEDS Do not set deeper than ground elevation Cemented to surface Little Lime 2163' TVD 12-1/4" Hole Big Lime 2193' TVD (Rock Bit) Big Injun 2293' TVD Base of Big Injun 2393' TVD 2471' TVD Salt Water 0.44° INTERMEDIATE CASING Stiff Foam 2501 9-5/8" 36.0# J-55 LTC @ 2501' MD/TVD Set through potential salt water zones Set below base of Big Injun 2762' TVD Berea Cemented to surface 8-3/4" Hole Nudae Performed SLANT due to anti-collision concerns: 2983' TVD Gordon (Rock Bit) - Ran VES gyro to 2545' in 12-1/4" hole hole was relatively straight at this point with only 0.55° inclination RECEIVED Office of Oil and Gas AUG 3 2017 8-3/4" Hole WV Department of Environmental Protection to KOP (Hammer) 9.57 Air / Dust 5777' TVD TOP HOLE TD @ 5814' MD / 5577' TVD (~269' above planned KOP) Rhinestreet Base 6360' TVD 6517' TVD Middlesex West River 6534' TVD Geneseo Shale 6731' TVD Tully LS 6761' TVD Hamilton Shale 6786' TVD Marcellus Shale 6821' TVD Onondaga LS 6871' TVD 09/15/201

**EQT Production** 

**Hydraulic Fracturing Monitoring Plan** 

Pad ID: Smith

Wetzel County, WV

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WV Department of Environmental Protection

7/11/17

### **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 5H, Smith 6H

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

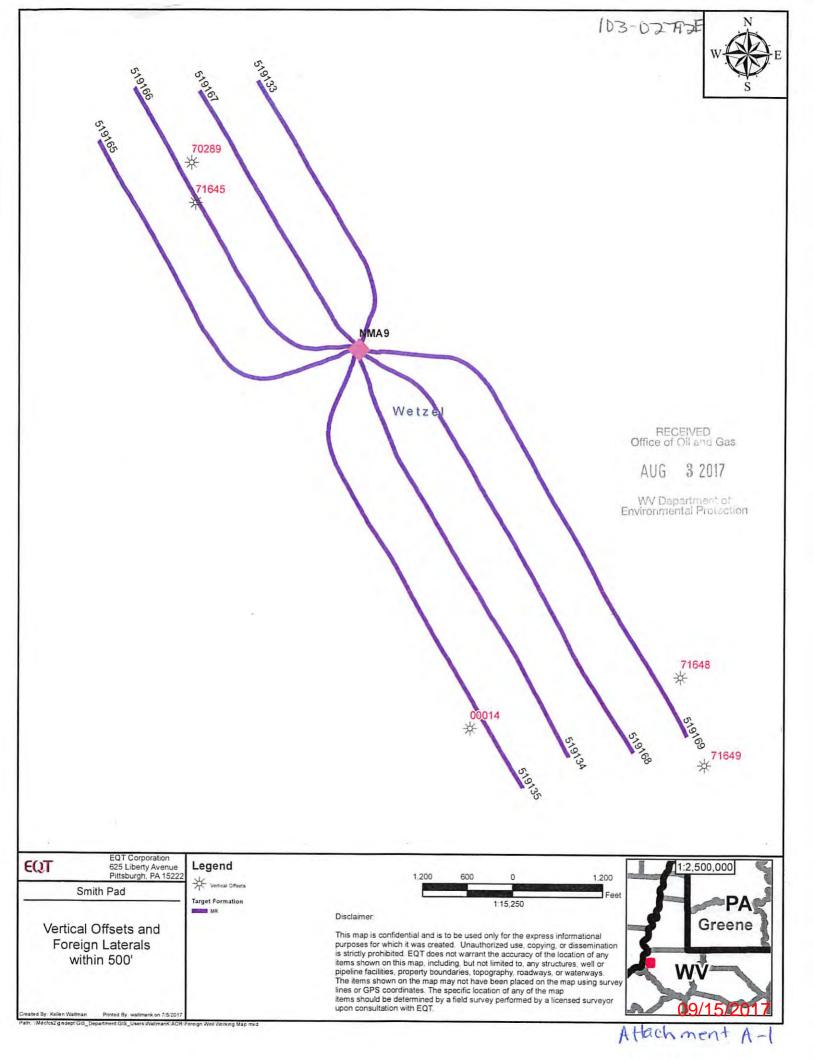
### 2. Reporting

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

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WV Department of Environmental Protection



Well ID 47103702890000 47103000140000 47103716450000 47103716490000 47103716480000
Well ID Completion D Current Operator 47103702890000 UNKNOWN 47103000140000 12/1/1929 LEATHERWOOD INCORPORATED 47103716450000 UNKNOWN 47103716480000 8/13/1925 UNKNOWN
Elevation Elevation Ref. Final Statu: Lat GR PSEUDO 39. 790 GR D&A 39. GR UNKWN 39. GR UNKWN 39. 888 GR D&A-OG 39.
Elevation Ru GR GR GR GR
efi Final Statu PSEUDO D&A UNKWN UNKWN UNKWN
39.653169 39.632704 39.651717 39.631398 39.634591
Lat Long 39.653169 -80.81888 39.632704 -80.805742 39.651717 -80.818692 39.631398 -80.794669 39.634591 -80.795796
Permit Date 10/17/1929
SPUD Date 11/1/1929 7/14/1929
### 10 Permit Date SPUD Date TD Formation Na Total Depth Permit 39.653169 -80.81888 0 70289  39.653704 -80.805742 10/17/1929 11/1/1929 BIG INJUN /SD/ 1926 00014  39.651717 -80.818692 0 71645  39.631398 -80.794669 0 71649  39.634591 -80.795796 6/29/1925 7/14/1925 HAMPSHIRE 2842 71648
tal Depth Permit 0 70289 1926 00014 0 71645 0 71649 2842 71648

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WR-35 Rev. 8/23/13

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

	Zip 26508	hallow
e WV on survey 225 401 086 oe of Report Interpth Type	Zip 26508  terim □Final  Deep ■ S	hallow
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API 47- 103	3 _ 02792	Farm na	me_S	mith, Sonn	y and Ch	arlott	e	ell nun	nber_#4H		
CASING STRINGS	Hole Size	Casing Size	Е		ew or Jsed	Grade wt/ft		Baske		Did cement c	irculate (Y/ N)
Conductor	24"	20"		90'	New	LS-	94.1 ppf				- GTS
Surface	17.5"	13.375"	1,323' KI	8-1,308' GL	New	100	- 54.5 ppf	121' & 201'		Y-CTS	
Coal	17.5"	13.375"	1,323' KI	3-1,308' GL	New	J55 -	54.5 ppf	121' & 201'		Υ	- CTS
Intermediate 1	12.25"	9.625"	2.	502	New		- 36 ppf			Y	- CTS
Intermediate 2											43435
Intermediate 3											
Production	8.75"	5.5"	12	,022'	New	P110	0 - 20 ppf			N - TOC @	906' Calculated
Tubing						211111					ood Gardalatoa
Packer type and	depth set T	AM CAP Packer	Set @	1 228' On The	9 625" Cas	sing Str	ring				
Comment Detail surface on the 5,5"	S Circulated 30 bbls ce casing string. TOC on 5	ment to surface on 13		sing string. Circula	ted 30 bbls cer	ment to s	urface on the 9	.625" cas	sing string. Circ	culated 25 bbls	TunedSpacer to
CEMENT	Class/Type	Number		Slurry	Yiel		Volume	•	Cement		WOC
DATA Conductor	of Cement Type 1	of Sack	5	wt (ppg) 15.6	( ft 3/s		(ft 3) 40	-	Top (MD Surface		(hrs) 24.0
Surface	Class "A"	987	-	15.6	1.1		1,175	-	Surface		8.0
Coal	Class "A"	987	-	15.6	1.1		1,175	_	Surface		8.0
Intermediate 1	Lead-10% Salt Tail-Class		il 217	Lead-15,4 Tail 15,6					Surface		
Intermediate 2	Load-1070 Gait Tail-Class	h Leau-302 Ta	111-517	Lead-15,4 Tall 15,0	Leau-1,20	1 all-1.21	Lead-043 Ta	11-3//	Suriace		12.0
Intermediate 3								4			
Production	V-47 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1	0 1 1 470 T-1	0.040		1	T 11 1 00	7	200	000 0-11	al a d	7.0
Tubing	Lead-TunedSpacer3 Tail-Var	Lead-178 Tal	1-2,340	Lead- 14.5 Tail-15.2	Lead-2.37	rail-1.20	Lead-422 Tail	-2,808	906 Calcul	ated	7.0
Deepest form Plug back pro	ation penetrated 60cedure	Marcellus Shale			ggers TD						
Check all wir	eline logs run	□ caliper □ neutron			deviated/ gamma ra			induct tempe		□sonic	
Well cored	□ Yes ■ No	Convention	nal	Sidewall		W	ere cutting	s colle	ected Y	es 🗆 No	)
points 1, 5, 9, 13, 17, 21 Production casing h	THE CENTRALIZ and 25. Intermediate casing had ad rigid spiral centralizers p t. A total of 6 bow spring ce	no centralizers installed du laced on every fourth jo	e to sloghir	ng hole conditions.							
WACWELL	COMBLETED 11	C CLIOT HOLE		V V.	Dem	A III C				Office of	Oil and Gas
WAS WELL	COMPLETED AS	S SHOT HOLE		Yes No	DETA	AILS				AUG	3 2017
WAS WELL	COMPLETED OI	PEN HOLE?	□ Ye	s 🛮 No	DETAIL	LS _				WV DE	partment of ental Protection
WERE TRAC	CERS USED - Y	es ■ No	TYI	PE OF TRAC	ER(S) US	ED _					

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API 47- 103 - 02792	Farm name_Smith, Sonny and Charlotte	Well number_#4H
---------------------	--------------------------------------	-----------------

### PERFORATION RECORD

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

Please insert additional pages as applicable.

### STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
-				-				
			-		<u> </u>			
-					_			
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								AUG 3 2017

Please insert additional pages as applicable.

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Page 4 of WR-35 Rev. 8/23/13 Farm name Smith, Sonny and Charlotte Well number #4H API 47- 103 02792 **PRODUCING FORMATION(S) DEPTHS** Not Yet Completed TVD MD Please insert additional pages as applicable. **GAS TEST** □ Build up □ Drawdown □ Open Flow OIL TEST | Flow | Pump SHUT-IN PRESSURE \_psi Bottom Hole\_\_\_\_psi Surface DURATION OF TEST hrs **OPEN FLOW** Oil Gas NGL Water GAS MEASURED BY mcfpd bpd bpd □ Estimated □ Orifice □ Pilot bpd LITHOLOGY/ TOP **BOTTOM** TOP **BOTTOM FORMATION DEPTH IN FT** DEPTH IN FT **DEPTH IN FT DEPTH IN FT** DESCRIBE ROCK TYPE AND RECORD QUANTITY AND NAME TVD TVD MD TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H2S, ETC) 0 0 See Attached Sheet Please insert additional pages as applicable. Drilling Contractor Nomac (top-hole) & Saxon Drilling (horizontal) Address 2034 Martins Branch Rd /9303 New Trails Drive Mount Morris / The Woodlands State PA / TX Zip 25312 / 77381 City Logging Company Scientific Drilling and Schlumberger Address 124 Vista Drive / 1178 US HWY 33 East Charleroi / Weston City State PA/WV Zip 15022 / 26452 Cementing Company Schlumberger Address 1178 US HWY 33 East City Weston State WV Zip 26452 Stimulating Company RECEIVED Office of Oil and Gas Address City State Zip Please insert additional pages as applicable. 3 2017 AUG Completed by W. Lee Hornsby Telephone 304-225-1600 WV Department of Environmental Protection Title Drilling Engineer Date 7/7/2014 Signature \_

Submittal of Hydraulic Fracturing Chemical Disclosure Information

Attach copy of FRACFOCUS Registry

API Number	47 -	103	-	02792
-	and the state of the			

Operator's Well No. SMITH 4H

### 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 Will a pit be used? Yes No	complete the proposed well work? Yes V No No	
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 Was	RECEIVEL	d Gas
Land Application		2017
	Permit Number 0014, 8462, 4037	
Reuse (at API Number Various		nent of
Off Site Disposal (Supply for Other (Explain	m WW-9 for disposal location)  Environmental for the second secon	1975
Will closed loop system be used? If so, describe: Yes, Th	ne closed loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then add for transportation to an off-site disposal facility.	
Drilling medium anticipated for this well (vertical and ho	orizontal)? Air, freshwater, oil based, etc. See Attached	MH
-If oil based, what type? Synthetic, petroleum,	etc. Synthetic Mud	411
Additives to be used in drilling medium? See Attached		1 1
Drill cuttings disposal method? Leave in pit, landfill, rer	moved offsite, etc. Landfill	
-If left in pit and plan to solidify what medium v	will be used? (cement, lime, sawdust) N/A	
-Landfill or offsite name/permit number? See A		
West Virginia solid waste facility. The notice shall be prowhere it was properly disposed.	l and Gas of any load of drill cuttings or associated waste rejected at any ovided within 24 hours of rejection and the permittee shall also disclose	=
on August 1, 2005, by the Office of Oil and Gas of the W provisions of the permit are enforceable by law. Violat law or regulation can lead to enforcement action.  I certify under penalty of law that I have per- application form and all attachments thereto and that	is and conditions of the GENERAL WATER POLLUTION PERMIT issued vest Virginia Department of Environmental Protection. I understand that the tions of any term or condition of the general permit and/or other applicable sonally examined and am familiar with the information submitted on this is, based on my inquiry of those individuals immediately responsible for on is true, accurate, and complete. I am aware that there are significant possibility of fine or imprisonment.	e e s
Company Official Signature	A /	
Company Official (Typed Name) Victoria J. Roark		
Company Official Title Permitting Supervisor		
	^	
Subscribed and sworn before me this day	y of Hugust, 20 17	
Allela & Wanst	Notary Public OFFICIAL SEAL	~
My commission expires 4-7-2020	NOTARY PUBLIC STATE OF WEST VING REBECCA L. WANS: EQT PRODUCTION COM	C HNIA TREET IPANY

Operator's Well No. SMITH 4H

EQT Production Co	mpany			=
Proposed Revegetation Treat	ment: Acres Disturbed _n	o additional Prevegetation pH		4
Lime 3	Tons/acre or to corre	ct to pH 6.5		
Fertilizer type Gra	nular 10-20-20			
Fertilizer amount 1/	/3	lbs/acre		
Mulch_2		Tons/acre		
		Seed Mixtures		
Те	mporary	Perma	nent	
Seed Type KY-31	lbs/acre 40	Seed Type Orchard Grass	lbs/acre	CEIVED f Oil and Gas
Alsike Clover	5	Alsike Clover	5 Office of	• 2017
Annual Rye	15		AUG	9 2017
		_	WV (	Department of mental Protection
Photocopied section of involve			-	
Plan Approved by:				+3
Comments:				-
				-
				-
				-
				-
				-
				-
Title: Oil + Gas T	mouch	Date: <b>641</b>		
Field Reviewed?	Yes (	) No		

### **EQT Production Water plan**

### Offsite disposals for Marcellus wells

#### CWS TRUCKING INC.

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

### LAD LIQUID ASSETS DISPOSAL INC.

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

### TRI COUNTY WASTE WATER MANAGEMENT, INC.

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

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

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

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

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

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

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

#### **TRIAD ENERGY**

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

#### KING EXCAVATING CO.

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

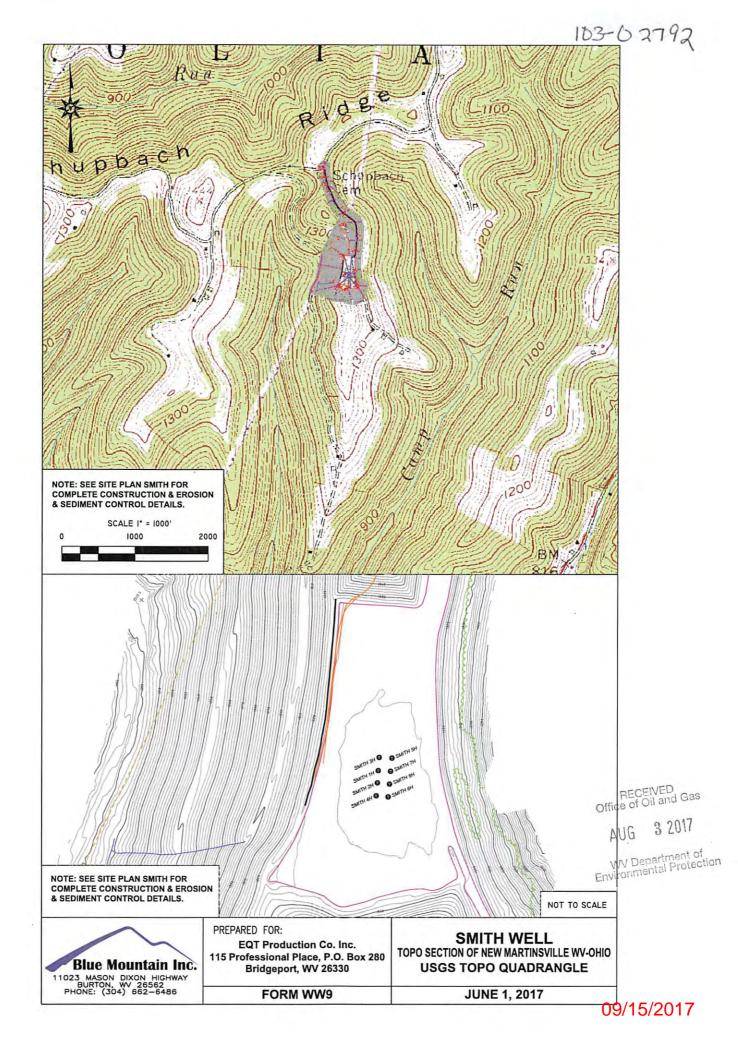


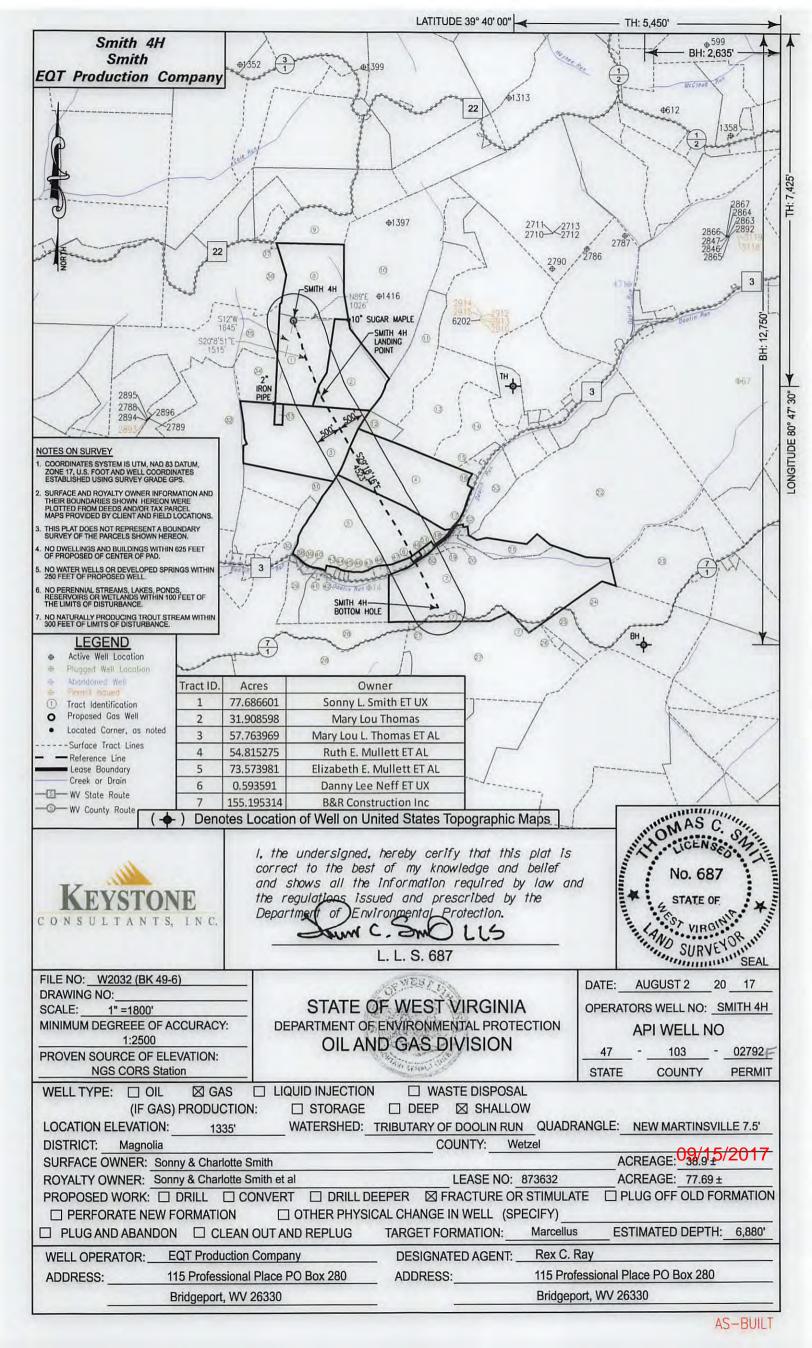


### Site Specific Safety Plan

# EQT Smith Pad New Martinsville Wetzel County, WV

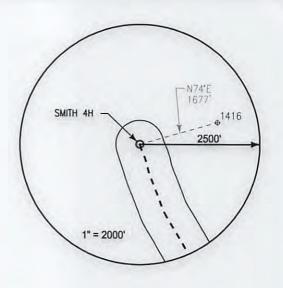
Smith 4H	For Wells:	
Date Prepared: June 19, 2017		
EQT Production  Production  Title	WV Oil and Ga	as Inspector
Title 81.117	Title	Office of Oil and Gas
Date	Date	AUG 3 2017
		WV Department of Environmental Protection





### Smith 4H Smith **EQT Production Company**

Tract ID.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	8	5	Wetzel	Magnolia	Sonny L. & Charlotte Smith	38.9
2	8	6	Wetzel	Magnolia	Kocher Albert HRS	33.01
3	8	12	Wetzel	Magnolia	David L. & Ralph O. Smith	58.15
4	8	25	Wetzel	Magnolia	Cathy M. Westfall ETAL	57.68
5	8	55	Wetzel	Magnolia	Cathy M. Westfall ETAL	17.66
6	8A	5.2	Wetzel	Magnolia	Danny Lee Neff	0.22
7	8	66	Wetzel	Magnolia	Mark I. Cochran	134.6
8	5	32	Wetzel	Magnolia	George S. Schupbach	37.5
9	5	26,2	Wetzel	Magnolia	Franklin Ray Blake	18
10	5	33	Wetzel	Magnolia	Franklin Ray Blake	108.4
11	8	7	Wetzel	Magnolia	Gary Lemons	30.19
12	8	13	-	Magnolia	Gary Lemons	5.57
13	8	14		Magnolia	Aaron Lloyd Lemons	43.79
14	8	14.1	_	Magnolia	James D. Johnston	24.46
15	8	26		Magnolia	Raymond L. & Ellen E. Ebert	1.84
16	8	25.1	THE RESERVE AND ADDRESS OF	Magnolia	Kevin A. & Sarah L. Yeater	0.56
17	8	28.1		Magnolia	Mark I. Cochran	0.17
18	8	66.3		Magnolia	Mark I. Cochran	0.32
19	8	55.1	*****	Magnolia	Mark I, & Mary Beth Cochran	0.34
20	8	66.2		Magnolia	Mark I. & Mary Beth Cochran	2.47
21	8	66.1	-	Magnolia	Mark I. Cochran	10.53
22	9	7		Magnolia	James B. Stewat ETAL	164.7
23	9	15	-	Magnolia	David L. Goddard	52.95
24	9	27	-	Magnolia	David L. Goddard	59.30
25	9	24		Magnolia	Clinton L. & Albert E. Leasure	10.03
26	9	25		Magnolia	Clinton L. & Albert E. Leasure	1.26
27	8	74	-	Magnolia	Thomas Eugene Presley	97.10
28	8	73		Magnolia	Burwell Newman	154.1
29	8	64	-	Magnolia		-
30	8	54		Magnolia	Peter Pitsenberger	8.78
31	8	24	-	-	Barbara E. Palmer	7.64
32	8	22	-	Magnolia	Gary W. Linda J. Durig	18.32
33	8	12.1		Magnolia	Lawrence E. Zumpetta ETAL	107.5
34	8	4		Magnolia	Ralph Oscar & Jonee Kay Smith	1.37
35	_		_	Magnolia	Lawrence E. Zumpetta ETAL	15.28
	8	3	_	Magnolia	Lawrence E. Zumpetta ETAL	79.47
36	5	31		Magnolia	William John Burton	66.56
	5	31.1	-	Magnolia	Schupbach Cemetery	0.27
38	8	64.1		Magnolia	Peter Pitsenberger	0.32
39	8	64.2		Magnolia	Leonard R. Oates Jr	0.25
40	8	85	-	Magnolia	Raymond L. Pribble	0.72
41	8	65		Magnolia	Jason T & Tracy L. Goodrich	0.53
42	8	65.1	-	Magnolia	Mark I. Cochran	0.16
43	8A	20	-	Magnolia	Cathy M. Westfall ETAL	0
44	8A	19		Magnolia	Daniel R. Westfall	0.35
45	8A	18		Magnolia	Daniel R. Westfall	0.34
46	8A	17		Magnolia	Daniel R. Westfall	0.3
47	8A	5		Magnolia	Cathy M. Westfall ETAL	2.9
48	8A	5.1		Magnolia	Donald L. & Brenda K. Brookover	1.07
49	8A	4		Magnolia	Danny Lee & Lisa A. Neff	0.23
50	8A	3		Magnolia	Michael J. Miller	0.24
51	8A	1	Wetzel	Magnolia	Michael J. Miller	0.46
52	8	66.4	Wetzel	Magnolia	Mark I. Cochran	0.6
53	8	28	Wetzel	Magnolia	Raymond L. & Ellen E. Ebert	17.33



Notes: SMITH 4H As-Built coordinates are

NAD 27 N: 420,212.000 E: 1,630,824.000 NAD 27 Lat: 39.646328 Long: -80.811070 NAD 83 UTM N: 4,388,530.062 E: 516,225,345

SMITH 4H As-Built Landing Point coordinates are NAD 27 N: 418,789,950 E: 1,631,345,780 NAD 27 Lat: 39,642446 Long: -80,809144 NAD 83 UTM N: 4,388,099,483 E: 516,391,529

SMITH 4H As-Built Bottom Hole coordinates are NAD 27 N: 414,847.660 E: 1,633,558.600 NAD 27 Lat: 39.631711 Long: -80.801084 NAD 83 UTM N: 4,386,909.708 E: 517,085.695

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

UTM coordinates are NAD83, Zone 17, Meters.

### **LEGEND**

- Active Well Location
- 0 Proposed Gas Well
  - Located Corner, as noted Surface Tract Lines
- Reference Line Lease Boundary
  - Creek or Drain
- WV County Route WV State Route

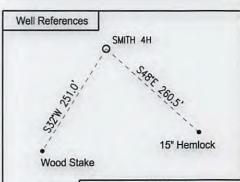
### SMITH PAD

SMITH 3H O O SMITH 5H

SMITH 1H O O SMITH 7H

SMITH 2H O O SMITH 8H

SMITH 4H O O SMITH 6H

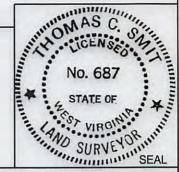




I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

SWO LLS Sum C.

L. L. S. 687



FILE NO: W2032 (BK 49-6) WAREN ! DRAWING NO: STATE OF WEST VIRGINIA SCALE: 1" = 1000' DEPARTMENT OF ENVIRONMENTAL PROTECTION MINIMUM DEGREE OF ACCURACY: 1:2500 OIL AND GAS DIVISION PROVEN SOURCE OF ELEVATION:

AUGUST 2 DATE: 20 OPERATORS WELL NO: SMITH 4H API WELL NO

- <u>02792</u>F 103 47 COUNTY PERMIT STATE

ACREAGE 09/81.54/2017

NGS CORS Station WELL TYPE: | OIL

SURFACE OWNER: Sonny & Charlotte Smith

☐ LIQUID INJECTION **⊠** GAS

☐ WASTE DISPOSAL

(IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☐ SHALLOW

QUADRANGLE: NEW MARTINSVILLE 7.5' LOCATION ELEVATION: 1,335' WATERSHED: TRIBUTARY OF DOLLIN RUN

COUNTY: Wetzel DISTRICT: Magnolia

ACREAGE: 77.69 ± LEASE NO: 873632 ROYALTY OWNER: Sonny & Charlotte Smith, et al

PROPOSED WORK: ☐ DRILL ☐ CONVERT ☐ DRILL DEEPER ☐ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION

☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ☐ PERFORATE NEW FORMATION

ESTIMATED DEPTH: 6,880' Marcellus TARGET FORMATION: □ PLUG AND ABANDON □ CLEAN OUT AND REPLUG

Rex C. Ray **EQT Production Company** DESIGNATED AGENT: WELL OPERATOR: \_\_

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

Operator's	Well	No.	SMITH 4H
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### 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

\*\* Per West Virginia Code Section 22-6-8.

Office of Oil and Gas

AUG 3 2017

WV Department of Environmental Protection

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

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

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

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

Well Operator: EQT Production Company

By: Victoria J Roark

Its: Permitting Supervisor

Page 1 of \_\_\_\_

WW-6A1 (Attachment)

0	per	ator	's	We	11 1	Nu	mh	er	•
-		u.co.				•••			*

Sm	ith	#4H

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

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page	Map/Parcel	Code
Sonny Smith	Stone Energy Corporation	1/8	111A/982	8-8-5	Α
Mary Lou Thomas	Stone Energy Corporation	1/8	364/233	8-8-6	В
Sonny L. Smith	Stone Energy Corporation	1/8	48/496	8-8-6	В
David L. Smith	Stone Energy Corporation	1/8	48/496	8-8-6	В
Milton O. Smith	Stone Energy Corporation	1/8	48/496	8-8-6	В
Ralph O. Smith	Stone Energy Corporation	1/8	48/496	8-8-6	В
Jeanette D. Kocher	Stone Energy Corporation	1/8	125A/279	8-8-6	В
Sarah M. Kocher	Stone Energy Corporation	1/8	125A/404	8-8-6	В
Bessie Stillwagoner	Stone Energy Corporation	1/8	125A/406	8-8-6	В
Murray D. Shackelford	Stone Energy Corporation	1/8	125A/408	8-8-6	В
Sarah M. Carpenter	Stone Energy Corporation	1/8	125A/410	8-8-6	В
Shelva Jean Whimpkey	Stone Energy Corporation	1/8	125A/412	8-8-6	В
Freda Eastmam	Stone Energy Corporation	1/8	125A/414	8-8-6	В
Nilla J. Montgomery	Stone Energy Corporation	1/8	125A/416	8-8-6	В
Linda Sue Irwin	Stone Energy Corporation	1/8	125A/418	8-8-6	В
Mary L. Hartley	Stone Energy Corporation	1/8	125A/420	8-8-6	В
William Jean McElwain	Stone Energy Corporation	1/8	125A/281	8-8-6	В
Harold F. Lewis	Stone Energy Corporation	1/8	125A/283	8-8-6	В
Gregory R. Richard	Stone Energy Corporation	1/8	125A/285	8-8-6	В
Lloyd A. Lewis	Stone Energy Corporation	1/8	125A/287	8-8-6	В
Annette M. Hinkle	Stone Energy Corporation	1/8	125A/289	8-8-6	В
Sharon L. Clutter	Stone Energy Corporation	1/8	125A/291	8-8-6	В
Mary L. Wright	Stone Energy Corporation	1/8	125A/293	8-8-6	В
Kathy Kay Tedrow	Stone Energy Corporation	1/8	125A/295	8-8-6	В
Tina I. Williamson	Stone Energy Corporation	1/8	125A/297	8-8-6	В
Case E.F. Garvey	Stone Energy Corporation	1/8	125A/299	8-8-6	В
Donald E. Richard	Stone Energy Corporation	1/8	125A/301	8-8-6	В
Judy E. Courtwright	Stone Energy Corporation	1/8	125A/303	8-8-6	В
Nancy Doty	Stone Energy Corporation	1/8	125A/305	8-8-6	В
Carla Hall	Stone Energy Corporation	1/8	125A/307	8-8-6	В
Deborah J. Richard Taylor	Stone Energy Corporation	1/8	125A/309	8-8-6	В
Eric Scott Richard	Stone Energy Corporation	1/8	125A/311	8-8-6	В
Christina Parr	Stone Energy Corporation	1/8	139A/836	8-8-6	В

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:

RECEIVED Office of Oil and Gas

AUG 3 2017

WV Department of Environmental Protection

Well Operator Stone Energy Corporation

BK / MILLOW

Received

Title Land Coordinator

JAN 2 | 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

WW-6A1 (Attachment)

Operator's	Well	Number:	
------------	------	---------	--

C.	nith	#41	
21	mu	1441	

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

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page	Map/Parcel	Code
Steven M. Lewis	Stone Energy Corporation	1/8	125A/313	8-8-6	В
Gregory R. Lewis	Stone Energy Corporation	1/8	124A/959	8-8-6	В
Kimberly A. Lewis	Stone Energy Corporation	1/8	124A/957	8-8-6	В
Scottie L. Lewis	Stone Energy Corporation	1/8	125A/315	8-8-6	В
Misty D. Brown	Stone Energy Corporation	1/8	125A/317	8-8-6	В
Deborah E. Hrancho	Stone Energy Corporation	1/8	125A/863	8-8-6	В
Elson Wells Lewis, Jr.	Stone Energy Corporation	1/8	125A/865	8-8-6	В
Gary Michael Richard	Stone Energy Corporation	1/8	126A/867	8-8-6	В
Terrill L. Lewis Sr., et ux	Stone Energy Corporation	1/8	127A/932	8-8-6	В
Nancy Doty	Stone Energy Corporation	1/8	131A/698	8-8-6	В
Ben Lewis	Stone Energy Corporation	1/8	131A/769	8-8-6	В
Danny Lewis	Stone Energy Corporation	1/8	135A/373	8-8-6	В
Donna Reynolds	Stone Energy Corporation	1/8	139A/574	8-8-6	В
Mary Lou L. Thomas, et al	Stone Energy Corporation	1/8	112A/96	8-8-12	С
Barry Sisler	Stone Energy Corporation	1/8	134A/133	8-8-12	С
Robert D. Schupbach	Stone Energy Corporation	1/8	134A/135	8-8-12	С
Nina Winters	Stone Energy Corporation	1/8	134A/163	8-8-12	С
Joel A. Potts, Jr	Stone Energy Corporation	1/8	134A/161	8-8-12	С
Carol Facci	Stone Energy Corporation	1/8	134A/159	8-8-12	С
Linda Wren	Stone Energy Corporation	1/8	134A/145	8-8-12	С
Ruth E. Mullett	Stone Energy Corporation	1/8	108A/906	8-8-25	D
Elizabeth M. Mullett	Stone Energy Corporation	1/8	108A/902	8-8-55	E
Elizabeth Mullett	Stone Energy Corporation	1/8	139A/588	8-8A-5	F
Danny Neff, et ux	Stone Energy Corporation	1/8	135A/403	8-8A-5.2	G
Mark I. Cochran	Stone Energy Corporation	1/8	119A/487	8-8-66	Н
Chesapeake	Stone Energy Corporation	. 1/8	406/459	8-8-66	Н
3&R Construction	Stone Energy Corporation	1/8	408/338	8-8-66	Н

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:

RECEIVED Office of Oil and Gas

AUG 3 2017

WV Department of Environmental Protection

Well Operator Stone Energy Corporation

Title Land Coordinator



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

RECEIVED Office of Oil and Gas

AUG 3 2017

WW Department of Environmental Protection

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

Date of Notic	ce Certification: 8/1/201	7	API N	o. 47- 103 - 0	02792 F
	-11-			tor's Well No. St	MITH 4H
				ad Name: SMIT	
Notice has l					
Pursuant to th	ne provisions in West Virginia Co	de § 2	2-6A, the Operator has provided the	e required parties	with the Notice Forms listed
	tract of land as follows:				
State:	WV		UTM NAD 83 Eastin		
County: District:	Wetzel Magnolia	_	Public Road Access:	-	500.00
Quadrangle:	New Martinsville		Generally used farm nan	Wetzel County	
Watershed:	Tributary of of Doolin Run		Generally used farm han	ne: Smith, Sonny	Chanotte
information r of giving the requirements Virginia Code of this article	equired by subsections (b) and (c) surface owner notice of entry to of subsection (b), section sixtee e § 22-6A-11(b), the applicant shahave been completed by the appli	), sect o surv on of all ten icant.	d in subdivisions (1), (2) and (4), ion sixteen of this article; (ii) that they pursuant to subsection (a), see this article were waived in writing der proof of and certify to the secret	ne requirement wo ion ten of this at by the surface of tary that the notice	as deemed satisfied as a result rticle six-a; or (iii) the notice owner; and Pursuant to West
that the Ope	rator has properly served the requ	uired	ator has attached proof to this Noti parties with the following:	ce Certification	OOG OFFICE USE
*PLEASE CHI	ECK ALL THAT APPLY				ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY		NOTICE NOT REQUIRED BE SEISMIC ACTIVITY WAS CONI		☐ RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SU	JRVE	Y or 🔳 NO PLAT SURVEY WA	S CONDUCTED	☐ RECEIVED
■ 3. NO	FICE OF INTENT TO DRILL		NOTICE NOT REQUIRED BE NOTICE OF ENTRY FOR PLAT S VAS CONDUCTED or		☐ RECEIVED/ NOT REQUIRED
		į	☐ WRITTEN WAIVER BY SUB (PLEASE ATTACH)	RFACE OWNER	
■ 4. NO	ΓICE OF PLANNED OPERATIO	N			☐ RECEIVED
■ 5. PUE	BLIC NOTICE				☐ RECEIVED
■ 6. NO	ΓICE OF APPLICATION				☐ RECEIVED

### Required Attachments:

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

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WW-6AC (1/12)

Certification of Notice is hereby given;

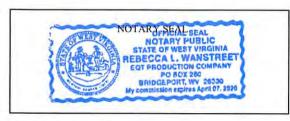
THEREFORE, I \_\_\_\_\_\_\_\_, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by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

 Well Operator:
 EQT Production Company
 Address:
 115 Professional Place PO Box 280

 By:
 Victoria J Roark
 Bridgeport WV 26330

 Its:
 Permitting Supervisor
 Facsimile:
 304-848-0041

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



Subscribed and sworn before me this \_\_\_\_\_ day of August 2017.

Notary Public

My Commission Expires 4-7-2020

### 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 <a href="deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

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AUG 3 2017

WV Department of Environmental Protection WW-6A (9-13) API NO. 47- 103 - 02792 F
OPERATOR WELL NO. SMITH 4H
Well Pad Name: SMITH

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 2217 Date Permit Application Filed: 8/2/17 Notice of: PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) 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 of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to: COAL OWNER OR LESSEE ☑ SURFACE OWNER(s) Name: See Attached Name: Address: Address: ☐ COAL OPERATOR Name: Address: Name: Address: ☑ SURFACE OWNER(s) (Road and/or Other Disturbance) Name: See Attached □ SURFACE OWNER OF WATER WELL Address: AND/OR WATER PURVEYOR(s) Name: Name: Address: Address: ☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD SURFACE OWNER(s) (Impoundments or Pits) RECEIVED. Name: Office of Oll and Gas Name: See Attached Address: Address: 3 2017 AUG \*Please attach additional forms if necessary WV Department of Environmental Presection Surface Owners, Surface Owners (road or other disturbance), and Surface Owners (AST):

Sonny and Charlotte Smith 440 Farm Road New Martinsville WV 26155

> RECEIVED Office of Oil and Gas

AUG 3 2017

WW-6A (8-13) RECEIVED
Office of Oil and Gas

AUG 3 2017

API NO. 47- 103 - 02792 P
OPERATOR WELL NO. SMITH 4H
Well Pad Name: SMITH

Notice is hereby given:

WV Department of

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

### This Notice Shall Include:

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

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

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

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

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

### **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 - 02792 P
OPERATOR WELL NO. SMITH 4H
Well Pad Name: SMITH

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

### Water Well Testing:

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

### Water Testing Laboratories:

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

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

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

### Written Comment:

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

| RECEIVED Office of Oil and Gas

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

AUG 3 2017

WV Department of Environmental Protection

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

### Time Limits and Methods for Filing Comments.

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

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

### **Comment Requirements**

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

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

### **Permit Denial or Condition**

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

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

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

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

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AUG 3 2017

WV Department of Environmental Protection

API NO. 47-103 - 02792 F
OPERATOR WELL NO. SMITH 4H
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
NOTARY PUBLIC
STATE OF WEST VIRIGINIA
FEEECCA L, WANSTREET
EQT PRODUCTION COMPANY
POBOL 250
PRINGEPORT, WY 28330
PRINGEPORT WY 28330

Subscribed and sworn before me this

day of

2017

My Commission Expires

020

Notary Public

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AUG 3 2017

WW Department of Environmental Protection

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

Sonny and Charlotte Smith 440 Farm Road New Martinsville WV 26155 103-02792 F

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AUG 3 2017

WV Department of Environmental Protection

Scale: WW Department of 1" = 1000' Topo Quad: NEW MARTINSVILLE, WV - OHIO 7.5' Environmental Protection WETZEL 29 JUNE 2017 Date: County: MAGNOLIA Project No: 0492-17 District: Topo Water SMITH WELL PURVEYOR MAP TH H 1200 *LEGEND* SCALE: 1 INCH = 1000 FEET Water Well 2000' 3000' 1000' Cistern/Spring Stream EQT Production Co. Inc. 115 Professional Place, P.O. Box 280 Blue Mountain Inc. 11023 MASON DIXON HIGHWAY BURTON, WV 26562 PHONE: (304) 662-6486 Bridgeport, WV 26330

WW-6A4 (1/12)

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 Noti			st TEN (10) days prior to filing a Application Filed: 07/10/2017	permit application.		EIVED Oil and Gas
Delivery me	thod pursuant	to West Virginia Code § 22-6	A-16(b)		AUG	3 2017
☐ HAND DELIV		CERTIFIED MAIL RETURN RECEIPT REQUE	ESTED		WV Dep Environmer	eartment of otal Protection
receipt reque drilling a hor of this subse subsection m and if availal	ested or hand del rizontal well: P ction as of the da nay be waived in ble, facsimile nu	ivery, give the surface owner in rovided, That notice given purate the notice was provided to writing by the surface owner.	rior to filing a permit application, notice of its intent to enter upon the suant to subsection (a), section to the surface owner: <i>Provided, how</i> . The notice, if required, shall includes of the operator and the operator.	ne surface owner's land on of this article satisfien wever, That the notice roude the name, address,	for the purp to the require equirements telephone no	oose of ements of this
Name: See Att		1 to the SURFACE OWN	Name: See Attached			
Address:			Address:		_	
the surface o State: County: District:	wner's land for the www. Wetzel Magnolia	the purpose of drilling a horizo	ereby given that the undersigned ntal well on the tract of land as fo UTM NAD 83  Easting: Northing: Public Road Access:	llows: 516225.62 4388530.04 Wetzel County Route 22		
Quadrangle:	New Martinsville		Generally used farm name:	Smith, Sonny & Charlotte		
Watershed:	Tributary of of Doo	lin Run				
Pursuant to facsimile nur related to ho	mber and electronic rizontal drilling	Code § 22-6A-16(b), this notionic mail address of the oper may be obtained from the Sec	ice shall include the name, addr ator and the operator's authorize cretary, at the WV Department o 926-0450) or by visiting <u>www.de</u>	ed representative. Addi f Environmental Protec	tional information	nation arters.
Notice is he	ereby given by	:				
Well Operato						
	OF: EQT Production	Company	Authorized Representative:	Victoria Roark		
Address:		al Place PO Box 280	_ Authorized Representative: Address:	Victoria Roark  115 Professional Place PC	Box 280	<del></del>
_	115 Profession		<b>-</b> •		Box 280	
Address:	115 Profession		Address:		9 Box 280	<del></del>
Address: Bridgeport WV 2	115 Professiona 26330	al Place PO Box 280	Address: Bridgeport WV 26330	115 Professional Place PC	9 Box 280	
Address: Bridgeport WV 2 Telephone:	115 Professiona 26330 304-848-0076	al Place PO Box 280	Address:  Bridgeport WV 26330  Telephone:	115 Professional Place PC 304-848-0076	9 Box 280	

### Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. 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 <a href="mailto:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

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

Sonny and Charlotte Smith 440 Farm Road New Martinsville WV 26155



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WV Department of Environmental Protection

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WW-6A5 (1/12)

Operator Well No. SMITH 4H

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

Date of Noti		d no later than the filing date of permit	
	ce: 8/2/17 Date Permit	t Application Filed: 8/2/17	AUG 3 2017
Delivery me	thod pursuant to West Virginia Code	§ 22-6A-16(c)	
	FIED MAIL [	☐ HAND	WV Department of Environmental Protecti
RETU	RN RECEIPT REQUESTED	DELIVERY	
return receipt the planned of required to be drilling of a damages to the (d) The notice of notice.	requested or hand delivery, give the supperation. The notice required by this provided by subsection (b), section te horizontal well; and (3) A proposed supperation are surface affected by oil and gas operation.	arface owner whose land will be used for subsection shall include: (1) A copy of this article to a surface owner whose urface use and compensation agreementions to the extent the damages are comen to the surface owner at the address like	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information see land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
(at the addres	s listed in the records of the sheriff at the	he time of notice):	
Name: See Atta		Name:	
Address		Address:	
Notice is her	eby given:		
Pursuant to Woperation on State: County: District:	Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose www.  Wetzel  Magnolia	ce is hereby given that the undersigned se of drilling a horizontal well on the tra  UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:	ct of land as follows: 516225.62 4388530.04 Wetzel County Route 22
Notice is her Pursuant to Woperation on State: County: District: Quadrangle: Watershed:	Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose wv Wetzel	se of drilling a horizontal well on the tra  UTM NAD 83  Easting: Northing:	516225.62 4388530.04
Pursuant to Woperation on State: County: District: Quadrangle: Watershed:  This Notice Solution of the provide the provide the formation readquarters,	West Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose www.  Wetzel  Magnolia  New Martinsville  Tributary of of Doolin Run  Shall Include: West Virginia Code § 22-6A-16(c), this end by W. Va. Code § 22-6A-10(b) to ell; and (3) A proposed surface use and ted by oil and gas operations to the excellated to horizontal drilling may be of located at 601 57th Street, SE, Chemical Code Section 1.	se of drilling a horizontal well on the tra  UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  notice shall include: (1)A copy of this a surface owner whose land will be a compensation agreement containing are tent the damages are compensable und btained from the Secretary, at the WV	ct of land as follows: 516225.62 4388530.04 Wetzel County Route 22
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Pursuant to Woperation on State: County: District: Quadrangle: Watershed:  This Notice Service of the provide the provide the horizontal we surface affect information readquarters, gas/pages/def	West Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose www.  Wetzel  Magnolia  New Martinsville  Tributary of of Doolin Run  Shall Include:  West Virginia Code § 22-6A-16(c), this end by W. Va. Code § 22-6A-10(b) to cell; and (3) A proposed surface use and the dependent of the expectation	se of drilling a horizontal well on the tra  UTM NAD 83  Public Road Access:  Generally used farm name:  notice shall include: (1)A copy of this a surface owner whose land will be a compensation agreement containing artent the damages are compensable und btained from the Secretary, at the WV arrleston, WV 25304 (304-926-0450)	code section; (2) The information required ased in conjunction with the drilling of a coffer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting <a href="https://www.dep.wv.gov/oil-and-ace-PO-Box 280">www.dep.wv.gov/oil-and-ace-PO-Box 280</a>

### 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.

103-02792F

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

Sonny and Charlotte Smith 440 Farm Road New Martinsville WV 26155

> RECEIVED Office of Oil and Gas

AUG 3 2017

WV Department of Environmental Protection

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

Sonny and Charlotte Smith 440 Farm Road New Martinsville WV 26155



RECEIVED
Office of Oil and Gas

AUG 3 2017

WV Department of Environmental Protection





### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION **Division of Highways**

Jim Justice Governor

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

RECEIVED
Office of Oil and Gas

3 2017 AUG

WV Department of Environmental Protection

Subject: DOH Permit for the Smith Pad. Wetzel County

Smith 1H

Smith 3H

Smith 4H 103-02792 F

Smith 5H

Smith 6H

Smith 8H

Dear Mr. Martin.

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

Cc:

Nick Bumgardner

**EQT Production Company** 

CH. OM. D-6

File

### Anticipated Frac Additives Chemical Names and CAS numbers



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

8417

Office of Oil and Gas

AUG 9 2017

WV Department of Environmental Protection



LOCATION MAP

#### SITE LOCATION

THE PROJECT IS LOCATED AT 39.650510, -80.81220! (NAD83 WVN). THE COORDINATES ARE REFERENCED FROM THE PAD ENTRANCE AND CAN BE LOCATED BY TAKING DOOLIN RIDGE ROAD ONE MILE EAST FROM NEW MARTINSVILLE. TURN LEFT ONTO SCHUPBACH RIDGE AND TRAVEL APPROXIMATELY 2.4 MILES AND THE PAD ENTRANCE WILL BE ON THE RIGHT

#### FLOODPLAIN NOTE

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



	SHEET INDEX
PG	DRAWING NAME
1	COVER SHEET
2	GENERAL DETAILS #1
3	GENERAL DETAILS #2
4	EXISTING SITE PLAN
5	OVERALL SITE PLAN
6	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



10125 Mason Dixon Hwy. Burton, WV 26562-9656 (304) 662-6486

NOTE: DRAWING WAS CREATED ON 22x34 PAPER. IIXI7 DRAWINGS ARE HALF SCALE. REFER TO SCALE BAR FOR PROPER SCALING.



LOCATION MAP NEW MARTINSVILLE, WY 7.5M USGS QUADRANGLE

#### PROPERTY OWNERS

I. SMITH SONNY L & CHARLOTTE 08-08-05 2. SCHUPBACH GEORGE S 08-05-32



Know what's below. Call before you dig.



120 PROFESSIONAL PLACE PROFESSIONAL BUILDING FOI BRIDGEPORT, WV 26330

SMITH WELL SITE Cover Sheet





NAWN BY TUM

SHEET NO. 1

