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State of West Virginia Department of Environmental Protection - Office of Oil and Gas MAR 1 3 2017 Well Operator's Report of Well Work

WV Department of Environmental Protection

06/02/2017

API 47 - 103 _ 029	08 County We	tzel	Magnolia	
Quad New Martinsville			Field/Pool Name N	Mary
Farm name Smith, Sonny ar			Well Number #6	
Operator (as registered with the		Corporation		
Address 1300 Fort Pierpon	t Dr Suite 201 City	Morgantown	State WV	Zip 26508
As Drilled location NAD 83 Top hol		drilled plat, profile view	v, and deviation survey Easting 516,231	
Landing Point of Cur	The state of the s		Easting 516,545	
Bottom Ho	le Northing 4,386,930		Easting 517,347	
Elevation (ft) 1,321			g Type of Report	
Permit Type Deviated	□ Horizontal ■ Ho	orizontal 6A 🗆 Vertic	cal Depth Type	□ Deep ■ Shallow
Type of Operation □ Convert	□ Deepen Drill	□ Plug Back □ I	Redrilling Rework	Stimulate
Well Type □ Brine Disposal	□ CBM	☐ Secondary Recovery	□ Solution Mining □ S	torage Other
Type of Completion ■ Single Drilled with □ Cable ■ Ro		Produced □ Brine □	Gas □ NGL □ Oil	□ Other
Drilling Media Surface hole	■ Air □ Mud ■Fres	h Water Intermed	iate hole 📱 Air 🗆 Mu	d ■ Fresh Water □ Brine
Production hole Air N	1ud □ Fresh Water □	Brine		
Mud Type(s) and Additive(s) Saturated salt mud which	includes Caustic Soda	, Barite, Lime, New-	Drill. Perma-Lose HT.	Xan-Plex D. X-Cide 102.
Soda Ash, and Sodium C			<u> </u>	
20.50	us/d	10.72.72	220	
Date permit issued7/31/2		commenced 11/25/	Date drilling	
Date completion activities beg	an12/09/2015	Date completion	activities ceased	12/15/2015
Verbal plugging (Y/N)	Date permission gr	ranted	Granted by	
Please note: Operator is requir	red to submit a plugging a	pplication within 5 days	s of verbal permission to	plug
Freshwater depth(s) ft	100	Open mine(s) (Y.	N) depths	N
Salt water depth(s) ft	1,733	Void(s) encounte	red (Y/N) depths	N
Coal depth(s) ft	1,017	Cavern(s) encour	ntered (Y/N) depths	N
Is coal being mined in area (Y/	APPR	OVE		Reviewed by:
	DATE: 5-25-	M Herr		06/02/20

WR-35

Rev. 8/23/13													
API 47- 103	02908		_ Farm n	_{ame} _S	mith, Sc	nny	and C	harlotte	We	ell nu	_{mber_} #6H		
CASING STRINGS	Hole Size		asing ize	D	epth	New Us		Grade wt/ft		Bas Dep			nent circulate (Y/N) de details below*
Conductor	24"		20"	r	90'		ew		94 ppf			N - GTS	
Surface	17.5"	1	3.375"	1,321' KB	- 1,306' GL	N	ew		54.5 ppf	120	0' & 201'		Y - CTS
Coal	17.5"		13.375"	1,321' KB	- 1,306' GL	N	ew		54.5 ppf	120	0' & 201'		Y - CTS
Intermediate 1	12.25"	 	9.625"	2.	476'		ew		36 ppf				Y - CTS
Intermediate 2	12.20				***-					1			-
Intermediate 3											_		
Production	8.75"		5.5"	12	.640'	N	lew	P110	- 20 ppf	 		N - TO	C @ 1,381' Calculated
Tubing	0.10		0.0		,,,,,,					 			
Packer type and de	epth set	TAM	CAP Inflatal	l ole Pacl	er Set On	9.625	5" Casir	g String @	D 1,199'	<u> </u>			
Comment Details on the 5.5" casing s	Circulated 32 bbls				sing string. (Circulate	ed 22 bbls	cement to su	urface on the	9.625*	casing string. N	lo cement	circulated to surface
CEMENT DATA	Class/Type of Cement		Numb of Sac		Slurry wt (pp			'ield ³ /sks)	Volum (ft.³)		Cemen Top (M		WOC (hrs)
Conductor	Type 1		34		15.6		1	.18	40		Surfac	e	24.0
Surface	Class "A'	1	1,010)	15.6		1	.20	1,212	2	Surfac	се	8.0
Coal	Class "A"		1,01)	15.6	i	1	.20	1,212	2	Surfac	ce	8.0
Intermediate 1	Lead-10% Sall Tail-0	Class "A"	Lead-513	ail-321	Lead-15.4 T	ail 15.6	Lead-1.2	28 Tail-1.19	Lead-657 T	ail-382	Surface		12.0
Intermediate 2													
Intermediate 3													
Production	Lead-TunedSpacer3 Tai	l-VariCem	Lead-178 Ta	ail-2,370	Lead- 14.5 T	ail-15.2	Lead-2.3	37 Tail-1.20	Lead-422 Ta	il-2,844	1,381 Calc	culated	7.0
Tubing													
Drillers TD (ft Deepest forma Plug back pro	tion penetrated	Marce	allus Shale			_	_	D (ft) <u>N/A</u> to (ft)					
Kick off depth	1 (ft) 6,026 MD / 6,	005' TVE)							•			
Check all wire	eline logs run		□ caliper □ neutron		ensity esistivity		deviat gamm	ed/directi a ray		indu tem	ction perature	□soni	c
Well cored	⊐ Yes 📱 No		Convent	ional	Side	wall		W	ere cuttin	gs co	llected =	Yes 1	□ No
points 3, 6, 9, 12, 15 and Production casing ha	HE CENTRAL 18. Intermediate cosing his rigid spiral centralize A total of 44 bow sprin	nd bow spr ers placed	ing centralizers plac I on every fourth	ed on joints	3, 7, 11. 15, 19, 2	27, 31,	35, 39, 43,	47, 51, 55, and 6	9.				entralizers placed on rs from joint 159 to joint 288
						-							
WAS WELL	COMPLETED	AS S	HOT HOL	E o	Yes 🖪	No	DI	ETAILS					
WAS WELL	COMPLETED	OPE	N HOLE?	□ Ye	es 🖪 N	o	DET.	AILS _					
WERE TRAC	ERS USED	□ Yes	■ No	TY	PE OF T	RACI	ER(S)	USED _					

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API 47- 103 - 02908

Farm name Smith, Sonny and Charlotte

Well number#6H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	12/09/2015	12,472	12,399	36	Marcellus
2	12/15/2015	12,247	12,330	54	Marcellus
3	12/15/2015	12,097	12,180	54	Marcellus
		 -			
					.,,

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage	Stimulations	Ave Pump	Ave Treatment	Max Breakdown	ICID (BCI)	Amount of	Amount of	Amount of
No.	Date	Rate (BPM)	Pressure (PSI)	Pressure (PSI)	ISIP (PSI)	Proppant (lbs)	Water (bbls)	Nitrogen/other (units)
1	12/14/15	69.9	7553	9154	4180	294,028	6521	NA
2	12/15/15	76.2	7274	7989	3987	292,688	5867	NA
3	12/15/15	79.2	7703	9111	4819	300,225	5708	· NA
					-			

Please insert additional pages as applicable.

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	_ 02908	Farm	_{name} Smith, S	Sonny and	d Charlotte	_Well i	number_#	6H	
PRODUCING	FORMATION(S)	DEPTHS						
Marcellus	- orani i i i i i i i i i i i i i i i i i i	777		TVD	12,097'-12,472'	MD			
Marcellus			6,893	_ 17D	12,097 -12,472	_ MD			
		_		_		-			
				_					
Please insert ad	Iditional pages a	s applicable.							
GAS TEST	□ Build up □	Drawdown	□ Open Flow		OIL TEST 🗆 Flo	ow E	Pump		
SHUT-IN PRE	SSURE Surf	ace	_psi Botto	m Hole	psi [OURA"	TION OF	TEST	Γhrs
OPEN FLOW	Gas mcf	Oil pd	NGL bpd	_ bpd	Water bpd		MEASUR mated =		
LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN MD	FT DESCRIBE RO				QUANTITYAND JE, OIL, GAS, H2S, ETC)
	0	1110	0	WID	THE OF TEC	ID (FRE	SHWATER	, DKI	NE, OIE, GAS, H ₂ S, ETC)
See Attached Sheet									
					-				
Please insert ad	 ditional pages a	s applicable.							
	ctor Nomac (top		Drilling (horizon	tal)					
	lartins Branch Rd				rris / The Woodlands	State	PA / TX	Zip	25312 / 77381
	any Scientific Dr sta Drive / 1178 US		City	Charleroi /	Weston	State	PA / WV	7in	15022 / 26452
-	.02 45 55		City			State		Zip_	10022 / 20102
Cementing Con Address 1178 U	npany Schlumbe	erger	C'a	Weston			WV		26452
Address 11700	O TIVYT 33 Last	9	City	vvestori		State		Zip_	26452
Stimulating Con		Hughes		D. I.I.	_		1007		00000
Address 1681 E	ditional pages a	s applicable	City	Bridgeport		State	VVV	Zip_	26330
		- прричине.							
Completed by	Greg Zofchak	W.	grist Di	illing Engine	Telephone 3			/17	
Signature	My Jobs		Title _Di	ming Engine	.01	_	Date 2/14	7.17	
Submittal of Hy	draulic Fracturi	ng Chemical I	Disclosure Infor	mation	Attach copy of F	FRACE	OCUS R	egistr	У

Smith #6H API 47-103-02908 Stone Energy Corporation

Horizontal

	Тор	Top		Bottom (ft	Bottom	
	(ft TVD)	(ft MD)		TVD)	(ft MD)	
Sandstone & Shale	Surface		*	1,017		FW @ 100
Coal	1,017		*	1,019		
Sandstone & Shale	1,019		*	2,163		SW @1,733
Little Lime	2,163		*	2,193		
Big Lime	2,193		*	2,293		
Big Injun	2,293		*	2,393		
Sandstone & Shale	2,393		*	2,762		
Berea Sandstone	2,762		*	2,795		
Shale	2,795		*	2,986		
Gordon	2,983		*	3,033		
Undiff Devonian Shale	3,033		*	5,882	5,906	
Rhinestreet	5,882	5,906	~	6,514	6,587	
Cashaqua	6,514	6,587	~	6,666	6,805	
Middlesex	6,666	6,805	~	6,686	6,837	
West River	6,686	6,837	~	6,745	6,940	
Geneseo	6,745	6,940	~	6,761	6,973	
Tully Limestone	6,761	6,973	~	6,802	7,070	
Hamilton Shale	6,802	7,070	~	6,846	7,221	
Marcellus	6,846	7,221	~	6,892	12,650	
TD				6,892	12,650	

^{*} From Pilot Hole Log and Driller's Log

[~] From MWD Gamma Log