Rev. 8/23/13

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

API 47 - 033 - 05759 County HARRIS	SON	District TEN MILE	
Quad SALEM 7.5' Pad Name J.M. I		_Field/Pool Name _Wo	OLF SUMMIT
Farm name MYERS, EDGAR LEE , JR.		_ Well Number 117 F	REV.
Operator (as registered with the OOG) H.G. ENERGY LL	C		
Address 5260 DuPONT ROAD City PA	RKERSBURG	State WV	Zip 26101
As Drilled location NAD 83/UTM Attach an as-drilled Top hole Northing 4,347,103 M Landing Point of Curve Northing Northing 4,348,879 M Elevation (ft) 1,347' GL Type of Well	Ea Ea	sting 542,479 M sting 542,348 M	□Interim ■Final
	ntal 6A 🗆 Vertical		□ Deep ■ Shallow
		- •-	•
Type of Operation □ Convert □ Deepen ■ Drill □	□ Plug Back □ Red	rilling Rework	□ Stimulate
Well Type □ Brine Disposal □ CBM □ Gas □ Oil ■ See	condary Recovery 🗆 :	Solution Mining Stor	rage 🗆 Other
Type of Completion ■ Single □ Multiple Fluids Production Drilled with □ Cable ■ Rotary Drilling Media Surface hole ■ Air □ Mud ■ Fresh Water □ Brin Mud Type(s) and Additive(s) N/A	ater Intermediate		□ Other
Date permit issued 8/27/13 Date drilling compate completion activities began 5/12/14		Buto unning o	5/15/14
Verbal plugging (Y/N) N Date permission grante		Granted by	OF CONTROL GREE
1 55 5 ()		44 A (18)	3.87
Please note: Operator is required to submit a plugging applic	cation within 5 days of	verbai permission to pi	ing 1
Freshwater depth(s) ft N/A Salt water depth(s) ft N/A Coal depth(s) ft 703'-711' Is coal being mined in area (Y/N) N	Open mine(s) (Y/N) Void(s) encountered Cavern(s) encounter	depths(Y/N) depthsed (Y/N) depths	onmental Protection
			Reviewed by:

Rev. 8/23/13									- — —
API 47- 033	_ 05759	Farm n	ame MYERS	, EDGAR L	EE , JR.	We	ell number 11	7 REV.	_
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		Basket Depth(s)		nt circulate (Y/ N) details below*
Conductor	12 1/4"	11 5/8"	30'	Used		LS			Sand In
Surface	8 3/4"	7"	805'	New	1	LS	64'		Υ
Coal									
Intermediate I									
Intermediate 2									
Intermediate 3									- · · - · - · · · · · · · · · · · · · ·
Production	6 1/2"	4 1/2"	3172.7'	New	J	-55			Y
Tubing						•			
Packer type and d	lepth set			•	•			•	
Comment Details									woo
CEMENT DATA	Class/Type of Cement	Numb of Sac			rield t ³/sks)	Volume (ft ³)	e Cem Top (WOC (hrs)
Conductor		31 540					1	T	, , , , , , , , , , , , , , , , , , , ,
Surface	Reg Neat	200	15.0	6	1.18	236	Surf	ace	8
Coal									
Intermediate 1									
Intermediate 2									
Intermediate 3									
Production	50:50 Pozmix/ Ecor	10 200/8	5 14.2/1	1.8 1.2	7/2.93	254/25	0 Surf	ace	8
Tubing									
Drillers TD (fi Deepest forma Plug back pro Kick off depth	ation penetrated Fit ocedure N/A	th Sand		Loggers T					
Check all wire	eline logs run	a caliper a neutron	■ density ■ resistivity		ed/direction		induction temperature	□sonic	
Well cored	□Yes ■ No	Conventi	ional Side	wall	W	ere cutting	gs collected	Yes 🗆	No
	THE CENTRALIZ			OR EACH C	ASING ST	TRING _			
To Centralizers every 86	, wom bollom on 4 m2 , cerualizi	Perced line online oil							
WAS WELL	COMPLETED AS	SHOT HOL	E □ Yes ■	No D	ETAILS		CHIC	RECEIV	VED and Gas
WAS WELL	COMPLETED OP	EN HOLE?	□ Yes 🛔 N	No DET	AILS _			JUN 1	3 51114
WERE TRAC	CERS USED 🗆 Y	es 🖺 No	TYPE OF T	TRACER(S)	USED		- V	in Deb	_{artment} of Ital Protection
							Env	ILOULUE	1.0

API 47-033 _ 05759

Farm name MYERS, EDGAR LEE , JR. Well number 117 REV.

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft	Perforated to MD ft.	Number of Perforations	Formation(s)
1	5/12/14	3068'	3070'	8	Fifth Sand
1	5/12/14	3074'	3078'	16	Fifth Sand
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-					
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	<u> </u>		<u> </u>	1	

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)
1	5/15/14	10	1687	3386	<u> 1811 </u>	20,000	381	
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							ing of UII	Cit 1 -
						1 011		ED and Gas
	-						JUN 1	2 (n.
L	<u> </u>				<u> </u>		1	t Of

Please insert additional pages as applicable.

WV Department of Environmental Protection

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Rev. 8/23/13			MAZEDO	EDCABI	LEE ID 117 DEV
API 47- 033	_ 05759	Farm n	ame MYERS,	EDGAR	LEE , JR. Well number 117 REV.
PRODUCING I	FORMATION(S	S) I	<u>DEPTHS</u>		
			3026'-3036'	TT IT	3068'-3078' MD
Fifth Sand			026-3036	_TVD	MD
Please insert ad	ditional pages a	s applicable.			
GAS TEST	□ Build up □	Drawdown	□ Open Flow	(OIL TEST - Flow - Pump
					psi DURATION OF TEST hrs
OPEN FLOW	Gas	Oil L	NGL	hnd	Water GAS MEASURED BY bpd □ Estimated □ Orifice □ Pilot
	mci	t		. սիս _	bpu Estimated Offfice I not
		normo: (TOB	воттом	4
LITHOLOGY/	TOP	BOTTOM DEPTH IN FT	TOP DEPTH IN FT		
FORMATION	DEPTH IN FT NAME TVD	TVD	MD	MD	TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
Sand/Shale	0 NAME IVD	703	0	703	
Pittsburgh Coal	703	711	703	711	
Sand/Shale	711	2062	711	2078	
Big Lime	2062	2144	2078	2162	
Big Injun	2144	2198	2162	2218	
Shale	2198	2613	2218	2640	
Fifty Foot	2613	2632	2640	2663	
Shale	2632	2702	2663	2735	
Sand	2702	2862	2735	2898	
Shale	2862	3025	2898	3068	
Fifth Sand	3026	3036	3068	3078	Drilled directional S 73 degrees W a distance of 390'
Shale	3036	3187	3078	3228	
TD	3187	 	3228		
	<u> </u>	11:1-1-	<u> </u>	L	
	dditional pages	•			
Drilling Contra	actor Decker Dri	illing			- OH 45794
Address <u>11565</u>	State Route 676		City	Vincent	State OH Zip 45784
	oany Weatherfor	rd International			
Logging Comp	orth River Avenue		City	Weston	State WV Zip 26452
Cementing Co	mpany Baker H	ughes			NAT - 00004
Address 2228 I	Philippi Pike		City	Clarksburg	· · · · · · · · · · · · · · · · · · ·
		cers Service Co	ro.		-114
Stimulating Co	ompany Produ outh Graham Stree	et	City	Zanesville	State OH ZARBOTIVED Gas
Please insert a	dditional pages	as applicable.			owice of Oil are
					OHIO: - 2014
Completed by	y Roger Heldma	in			Telephone 304-420-1107
Signature /	Zer 1	Keed-	Title _C	perations Ma	Telephone 304-420-1107 13 2014 Date 6/12/14 JUN 1 3 2014 Attach copy of FRACFOCUS Registry Department of Environmental Protection
	8		D: 1 - 7 ^		Attach copy of FRACFOCUS Registry Department of Environmental Protection
Submittal of H	Iydraulic Fractu	ring Chemical	Disclosure Info	rmation	Allach copy of FRACTOCUS Registry mental Flor
					EUAIIO

repared for: [G Energy

Customer Approval: _



Prepared by:
Producers Service Corp
Jason Stanbery
109 S. Graham St.
Zanesville, OH 43702

	service corp.			Zanesville, OH 740-454-6253	43702
INVOICE #: 16286					
WELL NAME: J M Fultz 117R					
STATE & COUNTY: WV/Harrison					
TOWNSHIP/FIELD: Wolf Summit					
DATE of SERVICE: 5/15/2014					
CUSTOMER PO#					
Description	Notes	Amount	Units	Unit Cost	Total Cost
LUID PUMP CHARGE 0-3000 PSI MIN CHARGE 4 HRS		1	EA	\$	-1-1
BLENDER CHARGE 0-10 BPM		1	EA	\$	
AILEAGE CHARGE PER UNIT ONE WAY	2 Units @ 70 Miles	0	MI	\$	
C ACID 15%		300	GAL	\$	
PRO HIB II		0.5	GAL	\$	
ACID DELIVERY		2	HR	\$	
PRO CLA LOK (KCL SUBSTITUTE)		20	GAL	\$	
PRO NE-21		10	GAL	\$	
PRO GEL 4		250 50	LB	\$	
3UFFER I		50	LB	\$	
3UFFER II		1	LB	\$	
3IO CLEAR 750		22	LB	\$	
AP BREAKER		15	GAL	\$	
3XL-A		15	GAL	\$	
3XL-10C		200	CWT	\$	
SAND 20/40 OTTAWA SAND DELIVERY / TON MILES		700		\$	
		1	STAGE	\$	
DATA VAN					
				L. L. C.	
				1	
		-		0.1	
			2		
				0.7	
				TOTAL	
The state of the s	7			TOTAL	