

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

API <u>47</u> - 033	_ 05784	County HARRIS	ON <sub>1</sub>	District TEN MILE		
Quad SALEM 7.5'		Pad Name J.M. F	ULTZ	Field/Pool Name W		IMIT
Farm name MYERS, E	DGAR LEE	JR.		Well Number 244		
Operator (as registered	with the OOG	H.G. ENERGY LLC	<u> </u>			
Address 5260 DuPON	NT ROAD	City PAR	KERSBURG	State WV	Zip <u></u>	26101
T Landing Point	of Curve	Attach an as-drilled Northing 4,347,103 M Northing 4,346,798 M	Easti	deviation survey ing 542,485 M ng		
Elevation (ft) 1,342'	GL	Type of Well	New   Existing	Type of Report	□Interim	■Final
Permit Type   Dev	iated 🗆 H	orizontal   Horizont	al 6A 🗆 Vertical	Depth Type	□ Deep	■ Shallow
Type of Operation □ C	onvert 🗆 I	Deepen	Plug Back □ Redril	ling   Rework	□ Stimula	te
Well Type □ Brine Dis	posal □ CBN	M □ Gas ■ Oil □ Seco	ondary Recovery D So	lution Mining 🗆 Sto	orage 🗆 O	ther
Type of Completion ■ Drilled with □ Cable  Drilling Media Surfac  Production hole ■ Air  Mud Type(s) and Addit  N/A	■ Rotary e hole ■ Ai □ Mud	ltiple Fluids Produc r □ Mud BFresh Wate BFresh Water □ Brine	ed □ Brine □Gas er Intermediate h	□ NGL ■ Oil ole ■ Air □ Mud	□ Other	
Date permit issued	8/28/13	Date drilling comm	enced4/24/14	Date drilling		4/27/14
Date completion activiti	Ŧ. —	5/12/14	Date completion activ	vities ceased	5/15/14	
Verbal plugging (Y/N)	N	Date permission granted		_ Granted by		
Please note: Operator is	s required to s	ubmit a plugging applica	tion within 5 days of ve	erbal permission to p	Tece	eived
Freshwater depth(s) ft		0001	Open mine(s) (Y/N) de			8 20 <b>14</b>
Salt water depth(s) ft		N/A	Void(s) encountered (	Y/N) depths	N	
Coal depth(s) ft	703	'-711'	Cavern(s) encountered	(Y/N) depths WV De	Office of Rept. of Environ	il and Gas <del>nmental Protection</del>
Is coal being mined in a		N				wed by:

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API 47-033	05784	Farm na	me MYERS,	EDGAR L	EE JR.	Well	number 244		
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		Basket Depth(s)		ent circulate (Y/N) e details below*
Conductor	12 1/4"	11 5/8"	30'	Used		LS			Sand In
Surface	8 3/4"	7"	802'	New		LS	64'		Υ
Coal									
Intermediate 1							• • •		
Intermediate 2									
Intermediate 3									
Production	6 1/2"	4 1/2"	3179.55'	New	J	-55			Υ
Tubing								-	
Packer type and d	epth set			L	<u> </u>	1		l	
Comment Details	Circulated Est. 45 sks to	surface on 7" surfa	ace cement job. Circu	ulated Est. 29 sk	to surface or	n 4 1/2" cement ju	ob.		
CEMENT	Class/Type	Number	Slurr		rield	Volume	Cemer	ıt	WOC
DATA Conductor	of Cement	of Sacks	wt (pp	og) ( f	t <sup>3</sup> /sks)	(ft <sup>3</sup> )	Top (M	D)	(hrs)
Surface									
Coal	Reg Neat	200	15.6	j	1.18	236	Surfac	ce	8
Intermediate 1									
Intermediate 2						_			
Intermediate 3									
Production Tubing	50:50 Pozmix/ Econ	200/85	14.2/11	1.8 1.2	7/2.93	254/250	Surfac	ce	8
Drillers TD (fi Deepest forma Plug back pro	ation penetrated Fifth	Sand		Loggers T Plug back					
Kick off depth	,,	■ caliper	■ density ■ resistivity		ed/directi a ray		duction emperature	□sonic	
Well cored	Yes No	Conventio	nal Sidev	wall	W	ere cuttings	collected ■	Yes 🗆	No
	HE CENTRALIZE from bottom on 4 1/2*, Centralizar		NT USED FO	R EACH C	ASING S	TRING			
WAS WELL	COMPLETED AS	SHOT HOLE	□ Yes ■	No Di	ETAILS		Ro	cei	ved
WAS WELL	COMPLETED OPP	EN HOLE?	□ Yes ■ N	o DET	AILS _		JUN	V 18	2014
WERE TRAC	ERS USED 🗆 Ye	s 🖪 No	TYPE OF TI	RACER(S)	USED _		Office WV Dept. of E	of Oil an	d Gas ntal Protection

ΔΡΙ	47_	033	_	05784

Farm name\_MYERS, EDGAR LEE JR.

\_\_Well number\_244

## PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	5/12/14	3054'	3060'	24	Fifth Sand
				-	
-				-	
				<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)
1	5/15/14	10	1695	2974	2033	20,000	382	
								, <u>-</u> .
			- 11 - 11 - 11					
1								
								-
							Branco	
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		•					JUN	18 2014

Please insert additional pages as applicable.

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API 47- 033	05784	Farm	<sub>name</sub> MYERS	, EDGAR	LEE JR. Well number 244
PRODUCING	FORMATION(	<u>S)</u> _	<u>DEPTHS</u>		
Fifth Sand		:	3016'-3022'	TVD	3054'-3060' MD
		<del></del>		_ 1 \ D	WID
					<del></del>
Please insert ad	lditional pages a	s applicable.			
GAS TEST	□ Build up □	Drawdown	□ Open Flow		OIL TEST □ Flow □ Pump
SHUT-IN PRE	SSURE Surf	ace	_psi Botto	m Hole	psi DURATION OF TEST hrs
OPEN FLOW	Gas	Oil	NGL		Water GAS MEASURED BY
	mcf	pd 1	bpd	bpd _	bpd □ Estimated □ Orifice □ Pilot
			-	_	
LITHOLOGY/	TOP	воттом	TOP	воттом	Λ
FORMATION	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN	FT DESCRIBE ROCK TYPE AND RECORD QUANTITY AND
	NAME TVD	TVD	MD	MD	TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
Sand/Shale	0	703	0	703	Facaivad
Pittsburgh Coal	703	711	703	711	
Sand/Shale	711	2062	711	2083	
Big Lime	2062	2140	2083	2162	JUN 1 8 2014
Big Injun	2140	2192	2162	2216	
Shale	2192	2600	2216	2633	06
Fifty Foot	2600	2624	2633	2656	Office of Oil and Gas  WV Dept. of Environmental Protection
Shale	2624	2691	2656	2725	1 1100000
Sand	2691	2845	2725	2881	
Shale	2845	3016	2881	3054	
Fifth Sand	3016	3022	3054	3060	Drilled directional S 47 degrees E a distance of 386'
Shale	3022	3188	3060	3228	
TD	3188		3228		
Di	1	12 1.1 .			
Please insert ac	lditional pages a	s applicable.			
Drilling Contra	ctor Decker Drill	ing			
Address 11565	State Route 676		City	Vincent	State OH Zip 45784
	<b>141</b> 41 <b>F</b>				
	any Weatherford	i international		1411	NAN/ 20450
Address 777 No	orth River Avenue	<del>-</del> .	City	Weston	State WV Zip 26452
Cementing Cor	npany Baker Hu	ahes			
Address 2228 P	hilippi Pike		City	Clarksburg	State WV Zip 26301
/ Iddi C33					State
Stimulating Co	····p·····	ers Service Cor	р.		_
Address 109 So	uth Graham Street		City	Zanesville	State OH Zip 43701
Please insert ad	lditional pages a	s applicable.			
Completed by	Roger Heldman				Telephone 304-420-1107
Signature	Bu 1	Hold	Title O	perations Ma	Date 06/17/14
Submittal of H	ydraulic Fracturi	ng Chemical I	Disclosure Info	rmation	Attach copy of FRACFOCUS Registry

Prepared for:

H G Energy



Prepared by: Producers Service Corp Jason Stanbery 109 S. Graham St.

Zanesville, OH 43702

740-454-6253

INVOICE #:	16285
WELL NAME:	J M Fultz 244
STATE & COUNTY:	WV/ Harrison
TOWNSHIP/FIELD:	Wolf Summit
DATE of SERVICE:	5/15/2014

CUSTOMER PO#					
Description	Notes	Amount	Units	Unit Cost	Total Cost
FLUID PUMP CHARGE 0-3000 PSI MIN CHARGE 4 HRS		1	EA	\$	
BLENDER CHARGE 0-10 BPM		1	EA	\$	
MILEAGE CHARGE PER UNIT ONE WAY	2 Units @ 70 Miles	0	MI	\$	
IC 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	LB	\$	
BUFFERI		50	LB	\$	
BUFFER II		50	LB	\$	
BIO CLEAR 750		1	LB	\$	
AP BREAKER		22	LB	\$	
BXL-A		15		\$	
BXL-10C		15		\$	
SAND 20/40 OTTAWA		200	CWT	\$	
SAND DELIVERY / TON MILES		700	TMILE	\$	
DATA VAN		1	STAGE	\$	
				TO	

Customer Approval: \_\_\_\_\_

Received

JUN 18 2014

Office of Oil and Gas
WV Dept. of Environmental Protection