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

	BO7 County HARF	KISON	District TEN MILE	<u>-</u>
API <u>47</u> - <u>033</u> _ <u>058</u> Quad SALEM 7.5'		FULTZ		
Farm name MYERS, EDGA		•	Well Number 248	
Operator (as registered with the	ne OOG) H.G. ENERGY L	LC	<del></del>	
Address 5260 DuPONT Re	OAD City P.	ARKERSBURG	State WV	Zip 26101
As Drilled location NAD 8.  Top ho	ole Northing 4,346,930 M		nd deviation survey sting 542,312 M	
Landing Point of Cur		Ea	sting	
Bottom Ho	ole Northing 4,346,861 M	Ea	sting 542,328 M	
Elevation (ft) 1,281'	_ GL Type of Well	l ■New □ Existing	Type of Report	□Interim <b>B</b> Final
Permit Type   Deviated	□ Horizontal □ Horiz	ontal 6A	Depth Type	□ Deep ■ Shallow
Type of Operation   Conver	t 🗆 Deepen 🗂 Drill	□ Plug Back □ Red	rilling 🗆 Rework	□ Stimulate
Well Type	□ CBM □ Gas □ Oil ■ S	Secondary Recovery 🗆 S	Solution Mining 🛮 St	orage 🗆 Other
Type of Completion ■ Single Drilled with □ Cable ■ R	e □ Multiple Fluids Prod otary	duced □ Brine □Gas	s □ NGL <b>■</b> Oil	□ Other
Drilling Media Surface hole Production hole Air N Mud Type(s) and Additive(s) N/A	Mud ■ Fresh Water □ Bri		hole Air 🗆 Mud	l ■ Fresh Water □ Brine
Date permit issued2/4				
	/14 Date drilling cor	nmenced 4/13/14	Date drilling	ressed 4/17/14
			Date drilling	
Date completion activities beg	gan 4/25/14	Date completion ac	tivities ceased	5/8/14
	gan 4/25/14	mmeneed	tivities ceased	5/8/14
Date completion activities beg	gan4/25/14  N Date permission grant	Date completion acted	tivities ceased Granted by verbal permission to p	5/8/14
Date completion activities beg Verbal plugging (Y/N)  Please note: Operator is requi	yan 4/25/14  N Date permission grant  red to submit a plugging appl	Date completion acted	tivities ceased Granted by verbal permission to p	5/8/14
Date completion activities beg Verbal plugging (Y/N)  Please note: Operator is requi Freshwater depth(s) ft	yan 4/25/14  N Date permission grantered to submit a plugging applement	Date completion acted  lication within 5 days of  Open mine(s) (Y/N)	tivities ceased  Granted by  verbal permission to p	5/8/14  Polug CEIVED OilNand Gas
Date completion activities beg Verbal plugging (Y/N)  Please note: Operator is requi  Freshwater depth(s) ft  Salt water depth(s) ft	gan 4/25/14  N Date permission grantered to submit a plugging applemantered None  None	Date completion acted  lication within 5 days of  Open mine(s) (Y/N)	tivities ceased  Granted by  verbal permission to p	5/8/14  Polug CEIVED OilNand Gas
Date completion activities beg Verbal plugging (Y/N)  Please note: Operator is requi Freshwater depth(s) ft	yan 4/25/14  N Date permission grantered to submit a plugging applemantered None  None  646'-654'	Date completion acted  lication within 5 days of  Open mine(s) (Y/N)	verbal permission to p  depths(Y/N) depths	5/8/14  Slug CEIVED OilNand Gas

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API 47- 033	05807	Farm na	me MYERS,	EDGAR L	EE JR.	We	ll number 24	8	
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		Basket Depth(s)	Did ceme	nt circulate (Y/ N) e details below*
Conductor	12 1/4"	11 5/8"	30'	Used	WOIL	LS	Depui(s)	Flovide	Sand In
Surface	8 3/4"	7"	727'	New		LS	64'	1	Y
Coal			<u> </u>		<del>-</del>			+	<del></del> -
Intermediate 1					<del> </del>	·		1	
Intermediate 2								<del>                                     </del>	*.*
Intermediate 3					<del> </del>			<u> </u>	
Production	6 1/2"	4 1/2"	3086.9'	New	<b>!</b> .	J-55	- M-1-11	<del>                                     </del>	Y
Tubing		+					<del></del>	1	
Packer type and d	lepth set	1	1	l		<u>_</u>			
CEMENT DATA	Class/Type of Cement	Number	Slurr	y \	ield	Volume			WOC (hrs)
Conductor									
Surface	Reg Neat	185	15.6	1	.18	218	Surfa	ce	8
Coal							_		
Intermediate 1									
Intermediate 2									
Intermediate 3									
Production	50:50 Pozmix/ Econ	o 200/80	14.2/11	1.8 1.2	7/2.93	254/235	28	1	8
Tubing		<u> </u>							
Drillers TD (fl Deepest forma Plug back pro	tion penetrated Fift	h Sand		Loggers T					
Kick off depth									
Check all wire	line logs run	<ul><li>■ caliper</li><li>■ neutron</li></ul>	■ density ■ resistivity	<b>≜</b> deviate <b>≜</b> gamma			nduction emperature	□sonic	
Well cored	Yes 🖪 No	Convention	nal Sidev	vall	W	ere cuttings	s collected	Yes □	No
	HE CENTRALIZE from bottom on 4 1/2*, Centralizer		NT USED FO	R EACH CA	ASING S'	TRING _			
								CEIVEL	d Gas
WAS WELL (	COMPLETED AS	SHOT HOLE	□ Yes 🛎	No DE	TAILS		Office C	of Oil 31	7014
WAS WELL O	COMPLETED OPI	EN HOLE?	□ Yes ■ No	DETA	AILS _			Deba	rtment of lal protection
WERE TRAC	ERS USED 🗆 Ye	es 🖪 No	TYPE OF TR	RACER(S) U	JSED		EUNI	ouwen	

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API 47- 033 \_ 05807 Farm name\_MYERS, EDGAR LEE JR. Well number\_248

## PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	4/25/14	2970'	2975'	20	Fifth Sand
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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	5/8/14	10	1710	2240	1579	20,000	372	
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				1	<del></del>			
<u> </u>					<del></del>			
								WED
							BEUT	od Gas
							use of O	11 and
						(,_	11100	IVED Gas
							KUL	32014

Please insert additional pages as applicable.

Wy Department of Environmental Protection

API 47- 033	_ 05807	Farm	name_MYERS	, EDGAF	R LEE JR.	Well number_248	
PRODUCING	FORMATIO	N(S)	DEPTHS				
				2.0	20681 20751		
Fifth Sand			2958'-2964'	_ TVD	2968'-2975'	MD	
						_	
Please insert ad	lditional pages	s as applicable.					
GAS TEST	□ Build up	□ Drawdown	□ Open Flow		OIL TEST D	Flow   Pump	
SHUT-IN PRE	SSURE Su	ırface				DURATION OF TEST	hrs
OPEN FLOW		Oil ocfpd	NGL bpd	bpd	Water bpd	GAS MEASURED BY  □ Estimated □ Orifice □	□ Pilot
LITHOLOGY/	TOP	BOTTOM	TOP	BOTTO	M		
FORMATION	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN	FT DESCRIBE	ROCK TYPE AND RECORD QUAN	ΓΙΤΥΑΝD
	NAME TVD		MD	MD	TYPE OF F	LUID (FRESHWATER, BRINE, OIL,	GAS, H <sub>2</sub> S, ETC)
Sand/Shale	0	646	0	646			
Pittsburgh Coal	646	654	646	654			
Sand/Shale	654	2007	654	2013			
Big Lime	2007	2089	2013	2094			
Big Injun	2089	2136	2094	2142	- 5		
Shale	2136	2545	2142	2554			
Fifty Foot	2545	2569	2554	2578			
Shale	2569	2634	2578	2644			
Sand	2634	2790	2644	2800			
Shale	2790	2958	2800	2968			
Fifth Sand	2958	2964	2968	2975	Drille	ed directional S 34 degrees E a dista	nce of 192'
Shale	2964	3127	2975	3138			
TD	3127		3138				
Please insert ad	l ditional pages	s as applicable.					
	, Decker D	rilling					
Orilling Contract Address 11565 8	State Poute 676	Tilling	Cir.	Vincent		State OH Zip 45784	
Address 11000 c	State Noute 010		City	VIIIOOIIC		State OH Zip 45784	
Logging Compa	any Weatherfo	ord International					
Address 777 No	rth River Avenue	9	City	Weston		StateWV Zip _26452	
		17.7					
Cementing Con	npany Baker H	lughes		01-1-1		- 1414 - 00004	:D
Address 2228 Ph	hilippi Pike		City	Clarksburg		State WV Zip 26301	nd Gas
timulating Con	mpany Produ	ucers Service Co	rp.			of Oil 8	1110
ddress 109 Sou	uth Graham Stre	et	City	Zanesville	-	State WV Zip 26301 State OH Zip 43701	2014
41 74 4 1 7 7 7 7 7 7 7 7		as applicable.				11111 1 0	
Januari 1 1 1	Roger Haldm	an y			Talanta	Date 6/9/14  FRACFOCUS Registry	artment of
Completed by Signature	A toget fielding	Who it.	mid O	perations Mo	_ lelephone	Date 6/9/14	tal Proteo.
dunanire (	61	MA AIN	TITLE U			PATE OF THE	1.000

Prepared for:

H G Energy



INVOICE #:	16278	
WELL NAME:	J M Fultz #248	
STATE & COUNTY:	WV/ Harrison	
TOWNSHIP/FIELD:	Wolfe Summit	
DATE of SERVICE:	5/8/2014	

CUSTOMER PO#

Description	Notes	Amount
FLUID PUMP CHARGE 0-3000 PSI MIN CHARGE 4 HRS		1
BLENDER CHARGE 0-10 BPM		1
MILEAGE CHARGE PER UNIT ONE WAY	2 Units @ 70 Miles	140
IC ACID 15%		300
PRO HIB II		0.5
ACID DELIVERY		2
PRO CLA LOK (KCL SUBSTITUTE)		20
PRO NE-21		10
PRO GEL 4		250
BUFFER I		50
BUFFER II		50
BIO CLEAR 750		1
AP BREAKER		22
BXL-A		15
		15
BXL-10C SAND 20/40 OTTAWA	,	200
SAND DELIVERY / TON MILES		700
		1
DATA VAN		

Customer Approval:		
customer rippi or an		

Office of Oil and Gas
JUN 1.3 2014
Wy Department of
Environmental Protection