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

API 47 - 033 - 05761 County HARRISON District TEN MILE
Quad SALEM 7.5' Pad Name J.M. FULTZ Field/Pool Name WOLF SUMMIT
Farm name MYERS, EDGAR LEE JR. Well Number 142
Operator (as registered with the OOG) H.G. ENERGY LLC
Address 5260 DuPONT ROAD City PARKERSBURG State WV Zip 26101

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,347,110 M Easting 542,485 M
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing 4,346,785 M Easting 542,761 M

Elevation (ft) 1,342' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)
N/A

Date permit issued 8/27/13 Date drilling commenced 4/29/14 Date drilling ceased 5/2/14
Date completion activities began 5/12/14 Date completion activities ceased 5/15/14
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

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Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug JUN 18 2014

Freshwater depth(s) ft N/A Open mine(s) (Y/N) depths N
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 N
Is coal being mined in area (Y/N) N

Reviewed by: _____

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CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade w/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	12 1/4"	11 5/8"	30'	Used	LS		Sand In
Surface	8 3/4"	7"	803'	New	LS	64'	Y
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	6 1/2"	4 1/2"	3404.3'	New	J-55		Y
Tubing							
Packer type and depth set							

Comment Details Circulated Est. 45 sks to surface on 7" surface cement job. Circulated Est. 27 sks to surface on 4 1/2" cement job.

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	Reg Neat	200	15.6	1.18	236	Surface	8
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	50:50 Pozmix/ Econo	200/100	14.2/11.8	1.27/2.93	254/293	Surface	8
Tubing							

Drillers TD (ft) 3468' Loggers TD (ft) 3461'

Deepest formation penetrated Fifth Sand Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 850'

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

20 Centralizers every 88 from bottom on 4 1/2". Centralizer placed mid string on 7"

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

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WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	5/12/14	3270'	3274'	16	Fifth Sand
1	5/12/14	3276'	3278'	8	Fifth Sand

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	1874	2376	1971	20,000	388	

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
Fifth Sand	2986'-2983'	TVD	3270'-3278' MD
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface _____ psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas _____ Oil _____ NGL _____ Water _____ GAS MEASURED BY
 mcfpd bpd bpd bpd Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
Sand/Shale	0	703	0	703	
Pittsburgh Coal	703	711	703	711	
Sand/Shale	711	2050	711	2128	
Big Lime	2050	2130	2128	2229	
Big Injun	2130	2181	2229	2296	
Shale	2181	2584	2296	2794	
Fifty Foot	2584	2606	2794	2822	
Shale	2606	2674	2822	2902	
Sand	2674	2824	2902	3082	
Shale	2824	2986	3082	3270	
Fifth Sand	2986	2993	3270	3278	Drilled directional S 72° E a distance of 1036'
Shale	2993	3158	3278	3468	
TD	3158		3468		

Please insert additional pages as applicable.

Drilling Contractor Decker Drilling
 Address 11565 State Route 676 City Vincent State OH Zip 45784

Logging Company Weatherford International
 Address 777 North River Avenue City Weston State WV Zip 26452

Cementing Company Baker Hughes
 Address 2228 Philippi Pike City Clarksburg State WV Zip 26301

Stimulating Company Producers Service Corp.
 Address 109 South Graham Street City Zanesville State OH Zip 43701

Please insert additional pages as applicable.

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Completed by Roger Heldman Telephone 304-420-1107
 Signature *Roger Heldman* Title Operations Manager Date 6/17/14 JUN 18 2014

Submittal of Hydraulic Fracturing Chemical Disclosure Information 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 #: 16284
WELL NAME: JM Fultz #142
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	\$ 4,250.00	\$
BLENDER CHARGE 0-10 BPM		1	EA	\$ 1,500.00	\$
MILEAGE CHARGE PER UNIT ONE WAY	2 Units @ 70 Miles	0	MI	\$ 4.50	\$
IC ACID 15%		300	GAL	\$ 2.25	\$
PRO HIB II		0.5	GAL	\$ 50.00	\$
ACID DELIVERY		2	HR	\$ 200.00	\$
PRO CLA LOK (KCL SUBSTITUTE)		20	GAL	\$ 35.00	\$
PRO NE-21		10	GAL	\$ 40.00	\$
PRO GEL 4		250	LB	\$ 13.00	\$
BUFFER I		50	LB	\$ 4.00	\$
BUFFER II		50	LB	\$ 3.00	\$
BIO CLEAR 750		1	LB	\$ 125.00	\$
AP BREAKER		22	LB	\$ 7.00	\$
BXL-A		15	GAL	\$ 35.00	\$
BXL-10C		15	GAL	\$ 35.00	\$
SAND 20/40 OTTAWA		200	CWT	\$ 18.00	\$
SAND DELIVERY / TON MILES		700	TMILE	\$ 1.75	\$
DATA VAN		1	STAGE	\$ 500.00	\$
					\$
					\$
					\$
					\$
					\$
					\$
					\$
					\$
					\$
TOTAL					\$

Customer Approval: _____

Received

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