

PM

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

API 47 - 033 - 04064 County HARRISON District TEN MILE
Quad WOLF SUMMIT 7.5' Pad Name NATHAN GOFF Field/Pool Name WOLF SUMMIT
Farm name JOHNSON, WM. R. & PAMELA Well Number 59
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 4,349,258 M Easting 544,326 M
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

Elevation (ft) 1,037' 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 3/17/14 Date drilling commenced N/A Date drilling ceased N/A
Date completion activities began 4/24/14 Date completion activities ceased 4/24/14
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

RECEIVED
Office of Oil and Gas
JUL 02 2014
WV Department of
Environmental Protection

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug.
Freshwater depth(s) ft N/A Open mine(s) (Y/N) depths _____
Salt water depth(s) ft N/A Void(s) encountered (Y/N) depths N
Coal depth(s) ft N/A Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

08/15/2014

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CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor							
Surface		8 5/8"	398'	EXISTING	20#		EXISTING
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production		4 1/2"	2740.5'	EXISTING	J-55		EXISTING
Tubing							
Packer type and depth set							

Comment Details _____

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	130					EXISTING
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	50:50 Pozmix	460					EXISTING
Tubing							

Drillers TD (ft) 2771' Loggers TD (ft) N/A
 Deepest formation penetrated Fifth Sand Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) N/A

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 _____
EXISTING

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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	EXISTING	2652'	2654'	12	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	4/24/14	10	2013	2566	1953	20,000	366	

Please insert additional pages as applicable.

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Fifth Sand</u>	<u>2652'-2654'</u> TVD	<u>2652'-2654'</u> 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 _____ mcfpd Oil _____ bpd NGL _____ bpd Water _____ bpd GAS MEASURED BY
 Estimated Orifice Pilot

<u>LITHOLOGY/ FORMATION</u>	<u>TOP DEPTH IN FT NAME TVD</u>	<u>BOTTOM DEPTH IN FT TVD</u>	<u>TOP DEPTH IN FT MD</u>	<u>BOTTOM DEPTH IN FT MD</u>	<u>DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H₂S, ETC)</u>
Sand/Shale	0		0		SEE ORIGINAL WELL RECORD
Pittsburgh Coal					
Sand/Shale					
Big Lime					
Big Injun					
Shale					
Fifty Foot					
Shale					
Sand					
Shale					
Gordon					
Shale					
TD					

Please insert additional pages as applicable.

Drilling Contractor _____
 Address _____ City _____ State _____ Zip _____

Logging Company _____
 Address _____ City _____ State _____ Zip _____

Cementing Company _____
 Address _____ City _____ State _____ Zip _____

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

Please insert additional pages as applicable.

Completed by Roger Heldman Telephone 304-420-1107
 Signature  Title Operations Manger Date 06/27/14

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

33.04064

Prepared for:
H G Energy LLC

Roger Heldman



Prepared by:
Producers Service Corp
Matt Untied
109 S. Graham St.
Zanesville, OH 43702
740-454-6253

INVOICE #:
WELL NAME:
DATE of SERVICE:
CUSTOMER PO#

Description	Notes	Amount	Units
BLENDER CHARGE 0-10 BPM		1	EA
FLUID PUMP CHARGE 0-3000 PSI MIN CHARGE		1	EA
MILEAGE CHARGE PER UNIT ONE WAY	2 Units @ 70 Miles	140	MI
IC ACID 15%		500	GAL
ACID DELIVERY		4	HR
PRO HIB II		1	GAL
PRO CLA LOK (KCL SUBSTITUTE)		20	GAL
PRO NE-21		10	GAL
PRO GEL 4		250	LB
BUFFER II		50	LB
BUFFER I		50	LB
BIO CLEAR 750		1	LB
AP BREAKER		22	LB
BXL-A		15	GAL
BXL-10C		15	GAL
DATA VAN		1	STAGE
SAND 20/40 OTTAWA		200	CWT
SAND DELIVERY / TON MILES	10 Ton @ 70 Miles	700	TMILE

Customer Approval: _____