

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

pm

API 47-033-03962 County HARRISON District TEN MILE  
Quad WOLF SUMMIT 7.5' Pad Name E. FLETCHER Field/Pool Name WOLF SUMMIT  
Farm name FLETCHER, RICHARD & ELIZABETH Well Number 15  
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 4,351,096 M Easting 545,482 M  
Landing Point of Curve Northing \_\_\_\_\_ Easting \_\_\_\_\_  
Bottom Hole Northing \_\_\_\_\_ Easting \_\_\_\_\_

Elevation (ft) 1,319' 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 4/11/14 Date completion activities ceased 4/11/14  
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 fractures (Y/N) depths N  
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

API 47- 033 - 03962 Farm name FLETCHER, RICHARD & ELIZABETH Well number 15

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"	673.15'	EXISTING	20#		EXISTING
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production		4 1/2"	3028.75'	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 <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	Reg Neat	205					EXISTING
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	50:50 Pozmix	410					EXISTING
Tubing							

Drillers TD (ft) 3078' 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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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Fifth Sand</u>	<u>2936'-2952'</u> TVD	<u>2936'-2952'</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

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 <sub>2</sub> S, ETC)
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 manager Date 06/27/14

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

33.03962

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: \_\_\_\_\_