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WV GEOLOGICAL SURVEY MORGANTOWN, WV Page 1 of 4

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

API 47 - 033 _ 04905 _ County HARRIS	SON	District TEN MILE			
Quad WOLF SUMMIT 7.5' Pad Name HIRA	LYNCH Field/Pool Name WOLF SUMMIT				
Farm name KENNETH & DEBORAH GASKINS		Well Number 108			
Operator (as registered with the OOG) H.G. ENERGY LL	.C		_		
Address 5260 DuPONT ROAD City PA	RKERSBURG	State WV	_{Zip} <u>26101</u>		
As Drilled location NAD 83/UTM Attach an as-drilled location Top hole Northing 4,348,315 M Landing Point of Curve Northing Bottom Hole Northing	East	deviation survey ing 543,647 M ing			
Elevation (ft) 1,188' GL Type of Well	□New ■ Existing	Type of Report □I	nterim B Final		
Permit Type Deviated Horizontal Horizontal	ntal 6A	Depth Type □	Deep • Shallow		
Type of Operation □ Convert □ Deepen □ Drill □	□ Plug Back □ Redri	lling □ Rework ■	Stimulate		
Well Type □ Brine Disposal □ CBM □ Gas □ Oil ■ Se	condary Recovery G	olution Mining Storag	ge 🗆 Other		
Type of Completion Single Multiple Fluids Production Drilled with Cable Rotary Drilling Media Surface hole Air Mud Fresh W Production hole Air Mud Fresh Water Brit Mud Type(s) and Additive(s) N/A	ater Intermediate				
		Date drilling ceasivities ceased 6	/26/13		
Please note: Operator is required to submit a plugging appli	cation within 5 days of v	verbal permission to plug			
Freshwater depth(s) ftNone	Open mine(s) (Y/N)	depths	N		
Salt water depth(s) ft None	Void(s) encountered	<u>-</u>	N		
Coal depth(s) ft None	Cavern(s) encountere	d (Y/N) depths	N		
Is coal being mined in area (Y/N)N			Reviewed by:		

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44 L/-	دد	
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WV GEOLOGICAL SURVEY MORGANTOWN, WV KEI Rev. 8/23/13 Farm name KENNETH & DEBORAH GASKINS Well number 108 API 47-033 04905 Did cement circulate (Y/N) Basket Casing New or Grade **CASING** Hole * Provide details below* wt/ft Depth(s) **STRINGS** Size Depth Used Size Conductor Surface Existing 7" Existing 515' Coal Intermediate 1 Intermediate 2 Intermediate 3 Production Existing 4 1/2" 2,898.48' Existing Tubing Packer type and depth set Comment Details WOC Yield Volume Cement CEMENT Class/Type Number Slurry (ft 3/sks) $(ft^{\frac{3}{2}})$ Top (MD) (hrs) of Sacks wt (ppg) DATA of Cement Conductor Surface 125 Existing Coal Intermediate 1 Intermediate 2 Intermediate 3 Production 150 Existing Tubing Loggers TD (ft) 2940' Drillers TD (ft) 2960' Deepest formation penetrated Fifth Sand Plug back to (ft) N/A Plug back procedure N/A Kick off depth (ft) □ deviated/directional □ induction □ density Check all wireline logs run □ caliper □ temperature □sonic □ gamma ray □ neutron □ resistivity Were cuttings collected ■ Yes □ No Conventional Sidewall Well cored □ Yes ■ No DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING DETAILS WAS WELL COMPLETED AS SHOT HOLE □ Yes 💄 No DETAILS WAS WELL COMPLETED OPEN HOLE? □ Yes ■ No

TYPE OF TRACER(S) USED __

WERE TRACERS USED □ Yes ■ No

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			PERFORATI	ON RECORD		
Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)	
1	Existing	2792'	2805'	78	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 6/26/13	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI) 1891	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
		1						
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Please insert additional pages as applicable.

PIVED DEC 3 0 2013 WV GEOLOGICAL SURVEY MORGANTOWN, WV Page 4 of 4 WR-35 Rev. 8/23/13 $_{Farm\;name}$ KENNETH & DEBORAH GASKINS $_{Well\;number}$ 108 API 47- 033 _ 04905 PRODUCING FORMATION(S) **DEPTHS** 2791'-2805' Fifth Sand _____ TVD MD Please insert additional pages as applicable. OIL TEST | Flow | Pump □ Build up □ Drawdown □ Open Flow **GAS TEST** DURATION OF TEST _ hrs Bottom Hole psi Surface psi SHUT-IN PRESSURE NGL Oil Water **OPEN FLOW** Gas GAS MEASURED BY bpd bpd □ Estimated □ Orifice □ Pilot bpd mcfpd **BOTTOM** TOP **BOTTOM** LITHOLOGY/ TOP DEPTH IN FT DEPTH IN FT DESCRIBE ROCK TYPE AND RECORD QUANTITY AND **FORMATION** DEPTH IN FT MD TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H₂S, ETC) MD NAME TVD See original Well Record 0 0 Please insert additional pages as applicable. Drilling Contractor Address Zip _____ State Logging Company Zip ____ State City Address Cementing Company State Zip City Address Stimulating Company Producers Service Corp. City Zanesville State OH Zip 43701 Address 109 South Graham Street

Please insert additional pages as applicable.

Completed by Coses Heldman
Signature Den Welden Title

Telephone 304-420-1107

Mg Date 11/26/13

Submittal of Hydraulic Fracturing Chemical Disclosure Information

Attach copy of FRACFOCUS Registry

epared for: G Energy	P C		
	PRODUCERS ERVICE CORP.		
INVOICE#:			
WELL NAME:			
STATE & COUNTY:			
TOWNSHIP/FIELD:			
DATE of SERVICE:			
CUSTOMER PO#			
Description	Notes	Amount	Unit
		1	EA
LUID PUMP CHARGE 0-3000 PSI MIN CHARGE 4 HRS		140	EA MI
BLENDER CHARGE 0-10 BPM MILEAGE CHARGE PER UNIT ONE WAY	2 Units @ 70 Miles	300	GAL
C ACID 15%		0.5	GAL
PRO HIB II		2	HR
ACID DELIVERY		20	GAL
PRO CLA LOK (KCL SUBSTITUTE)		. 10	
PRO NE-21		250	
PRO GEL 4		50	
BUFFER I		50	
BUFFER II BIO CLEAR 750		22	
AP BREAKER		15	
BXL-A		15	GA
BXI -10C		94	
SAND 20/40 ECONOPROP		329	
SAND DELIVERY / TON MILES			1 STA
DATA VAN			+
			+
			-
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