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Office of Oil and Gas

DEC 11 2014 State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work
WV Department of Environmental Protection

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API 47-043-03460 County LINCOLN District DUVAL
Quad GRIFFITHSVILLE 7.5' Pad Name J.A. FOWLER Field/Pool Name GRIFFITHSVILLE
Farm name MCCLURE, ANDY J. & REBECCA Well Number 113
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 4,231,236 M Easting 416,427 M
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

Elevation (ft) 882' 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

*Inj well
G/S*

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 6/17/2013 Date drilling commenced 11/7/14 Date drilling ceased 11/13/14

Date completion activities began 11/17/14 Date completion activities ceased 12/5/14

Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

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

Freshwater depth(s) ft N Open mine(s) (Y/N) depths N

Salt water depth(s) ft 1180' Void(s) encountered (Y/N) depths N

Coal depth(s) ft 458'- 463' Cavern(s) encountered (Y/N) depths N

Is coal being mined in area (Y/N) N

Reviewed by:

01/16/2015

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API 47- 043 - 03460

Farm name MCCLURE, ANDY J. & REBECCA Well number 113

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	12 1/4"	11 5/8"	30'	Used	LS		Sand In
Surface	8 3/4"	7"	515'	New	LS	84'	Y
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	6 1/4"	4 1/2"	2509.7'	New	J-55		Y
Tubing							
Packer type and depth set							

Comment Details Circulated Est. 50 sks to surface on 7" surface cement job. Circulated Est. 10 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	130	15.6	1.18	153.4	Surface	8
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	50:50 Pozmix	110/125	13.2/14.2	1.64/1.27	180/159	64'	8
Tubing							

Drillers TD (ft) 2530' Loggers TD (ft) 2534'
 Deepest formation penetrated Berea Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) _____

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 _____
6 Centralizers every 84 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	12/5/14	2359'	2373'	84	Berea

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	12/5/14	3.3	1463	1890	651		47	12 bbls HCL

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Berea</u>	<u>2359'- 2373'</u>	<u>TVD</u> _____ <u>MD</u> _____
_____	_____	_____
_____	_____	_____

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	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
Sand/Shale	0	458	0		
Pittsburgh Coal	458	463			
Sand/Shale	463	1638			
Big Lime	1638	1842			
Big Injun	1842	2084			
Shale	2084	2337			
Coffee Shale	2337	2357			
Berea	2357	2374			
Shale	2374	2530			
TD	2530				

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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 Universal Services
Address 5252 Rt 1428 City Allen State KY Zip 41601

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 Feldman Telephone 304-420-1107
Signature _____ Title Operations Manager Date 12/8/14

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

01/16/2015

43.03460

Prepared for: HG Energy	 PRODUCERS SERVICE CORP.	Pre Pro Jas 109 Zan 740
INVOICE #: 17197		
WELL NAME: J A Fowler #113		
STATE & COUNTY: WV / Lincoln		
TOWNSHIP/FIELD: Griffithsville		
DATE of SERVICE: 12/5/2014		
CUSTOMER PO#		
Description	Notes	Amount Units U
ACID PUMP CHARGE 1000-2000 PSI		1 EA \$
MILEAGE CHARGE PER UNIT ONE WAY		0 MI \$
IC ACID 15%		500 GAL \$
PRO HIB II		0.5 GAL \$
ACID DELIVERY		2 HR \$
PRO CLA FIRM LP		0.5 GAL \$
PRO PEN		1 GAL \$
PRO NE-1		0.5 GAL \$
PRO SOL		5 GAL \$
DATA VAN		1 STAGE \$
Customer Approval: _____		TOT/

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