

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

API 47-087-04784 County ROANE District SMITHFIELD
Quad LOONEYVILLE 7.5' Pad Name EDGELL, A W Field/Pool Name CLOVER
Farm name WEBB, PATTY C Well Number 127
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 4,285,678 M Easting 476,368 M
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing 4,285,661M Easting 476,105 M

Elevation (ft) 1042' 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

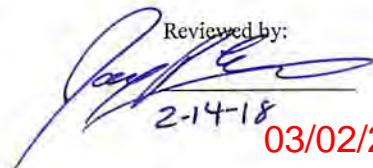
Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)
N/A

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Date permit issued 5/11/17 Date drilling commenced 10/25/17 Date drilling ceased 11/1/17
Date completion activities began 11/16/17 Date completion activities ceased 12/12/17
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 None Open mine(s) (Y/N) depths None
Salt water depth(s) ft 1080' Void(s) encountered (Y/N) depths None
Coal depth(s) ft None Cavern(s) encountered (Y/N) depths None
Is coal being mined in area (Y/N) N

Reviewed by:

2-14-18
03/02/2018

API 47-087 - 04784 Farm name WEBB, PATTY C Well number 127

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	15"	13 3/8"	15'	Used	LS		sanded in
Surface	8 7/8"	7"	507'	New	LS	64'	Y
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	6 1/4"	4 1/2"	2544'	New	J-55		Y
Tubing		2 3/8"	2340'	New	J-55		
Packer type and depth set		Parmaco shear packer @ 2340'					

Comment Details Circulated Est. 50 sks to surface on surface cement job. Approx 35 sks circulated on long string

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	140	15.6	1.18	165	Surface	8
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	50:50 Pozmix	240	14.2	1.27	330	80'	8
Tubing							

Drillers TD (ft) 2607 Loggers TD (ft) 2566

Deepest formation penetrated Big Injun 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 _____

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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PRODUCING FORMATION(S)	DEPTHS	
<u>Big Injun</u>	<u>2062'-2088'</u> TVD	<u>2404'-2442'</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 ₂ S, ETC)
Sand/Shale	0	1042	0	1043	
Sand	1042	1066	1043	1088	
Shale	1066	1446	1068	1450	
Sand	1446	1480	1450	1486	
Shale	1480	1586	1486	1600	
Sand	1586	1764	1600	1656	
Shale	1764	1798	1656	1930	
Sand	1798	1910	1930	1984	
Shale	1910	1930	1984	2190	
Little Lime	1930	1956	2190	2234	
Big Lime	1956	2032	2234	2354	
Keener	2032	2062	2354	2404	
Big Injun	2062	2088	2404	2442	
Shale	2088	2168	2442	2566	

Please insert additional pages as applicable.

Drilling Contractor Noah Horn Well Drilling
 Address 1070 Sandy Valley Lane City Vansant State VA Zip 2465

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Logging Company Weatherford International
 Address 13211 Old Hwy 50 City Flora State IL Zip 62839

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Cementing Company C & J Energy Services
 Address 580 Hawthorn Dr. City Norton State VA Zip 24273

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 *Roger Heldman* Title Operations Manager Date 12/12/17

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

JOT
03/02/2018

HG Enegy AW Edgell #127

Timestamp	Annotation	Pressure 1	Rate	Stage Total (bbf)	Grand Total (bbf)
12/5/2017 10:00:51 AM	Pressure Test	3086.44	0.00	1.35	1.35
12/5/2017 10:23:34 AM	Break	1900.64	1.44	2.00	2.00
12/5/2017 10:28:33 AM	x linker pad	1260.40	10.05	28.25	28.25
12/5/2017 10:29:28 AM	Sand #1	1179.39	9.94	37.38	37.38
12/5/2017 10:33:00 AM	Sand #2	1077.28	9.90	35.31	73.20
12/5/2017 10:36:56 AM	Flush	941.19	10.07	39.12	112.65
12/5/2017 10:40:47 AM	ISIP	603.38	0.00	37.08	149.90



501

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