

WR-35  
Rev. 8/23/13

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

API 47-087-04749 County ROANE District SMITHFIELD  
 Quad LOONEYVILLE 7.5' Pad Name KINKEAD, S.B. Field/Pool Name CLOVER  
 Farm name SNODGRASS, REVA ET AL Well Number 108  
 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 4,285,361 M Easting 475,282 M  
 Landing Point of Curve Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Bottom Hole Northing 4,285,227 M Easting 475,151 M

Elevation (ft) 1,1101 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 10/13/20 Date drilling commenced N/A Date drilling ceased N/A  
 Date completion activities began 11/12/20 Date completion activities ceased 11/12/20  
 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 1720' 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:

 04/15/2022

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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	12 1/4"	11 5/8"	30'	Used	LS		Existing
Surface	8 3/4"	7"	558'	New	LS	64'	Existing
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	6 1/4"	4 1/2"	2411.8'	New	J-55		Existing
Tubing							
Packer type and depth set							

Comment Details Grouted w/ Est. 50 sks to surface on 7" surface cement job. Did not circulate to surface on 4 1/2" cement job. \*Existing Casing/Cement program\*

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	140	15.6	1.18	165	Surface	Existing
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	50:50 Pozmix	100/125	13.2/14.2	1.64/1.27	164/186	36'	Existing
Tubing							

Drillers TD (ft) <sup>2450'</sup> \_\_\_\_\_ Loggers TD (ft) <sup>2451'</sup> \_\_\_\_\_  
 Deepest formation penetrated <sup>Big Injun</sup> \_\_\_\_\_ Plug back to (ft) <sup>N/A</sup> \_\_\_\_\_  
 Plug back procedure <sup>N/A</sup> \_\_\_\_\_

Kick off depth (ft) <sup>650'</sup> \_\_\_\_\_

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 \_\_\_\_\_  
20 Centralizers every 88 from bottom on 4 1/2", Centralizer placed mid string on 7" \*Existing\*

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WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS \_\_\_\_\_ FEB 14 2022

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_ WV Department of Environmental Protection

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED \_\_\_\_\_

*JPZ*

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PRODUCING FORMATION(S)	DEPTHS	
Big Injun	2167'- 2184'	TVD 2274'- 2294' 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 \_\_\_\_\_ Oil \_\_\_\_\_ NGL \_\_\_\_\_ Water \_\_\_\_\_ GAS MEASURED BY  
 mcfpd  bpd  bpd  bpd  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	1192	0	1205	
Sand	1192	1284	1205	1302	
Shale	1284	1414	1302	1440	
Sand	1414	1638	1440	1686	
Shale	1638	1692	1686	1744	
Sand	1692	1972	1744	2056	
Little Lime	1972	2000	2056	2088	
Pencil Cave	2000	2012	2088	2100	
Big Lime	2012	2140	2100	2236	
Keener	2140	2167	2236	2274	
Big Injun	2167	2184	2274	2294	Drilled directional S 45° W a distance of 542'
Shale	2184	2323	2294	2450	
TD	2323		2450		

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

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Cementing Company Universal Services  
 Address Hall Rd City Buckhannon State WV Zip 26201

WV Department of  
Environmental Protection

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 [Signature] Title Operations Manager Date 12/1/20

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

[Signature]

04/15/2022