

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

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Office of Oil and Gas

OCT 13 2017

WV Department of
Environmental Protection

API 47-043-03570 County LINCOLN District DUVAL
Quad GRIFFITHSVILLE 7.5' Pad Name W.S. MAY Field/Pool Name GRIFFITHSVILLE
Farm name ADKINS, DAVID Well Number 265
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 4,232,249 M Easting 416,390 M
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing 4,232,080 M Easting 416,489 M

Elevation (ft) 987' 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 3/9/17 Date drilling commenced 8/25/17 Date drilling ceased 9/1/17
Date completion activities began 9/7/17 Date completion activities ceased 9/8/17
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 1185', 1260' Void(s) encountered (Y/N) depths None
Coal depth(s) ft 475'- 480' Cavern(s) encountered (Y/N) depths None
Is coal being mined in area (Y/N) N

APPROVED

NAME: Jeffrey S. H.
DATE: 11-15-17

Reviewed by: _____

01/05/2018

API 47-043 - 03570 Farm name ADKINS, DAVID Well number 265

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"	34'	New	LS		Sand In
Surface	8 7/8"	7"	548.91'	New	LS	84'	Y
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	6 1/4"	4 1/2"	2716.67'	New	J-55		Y
Tubing							
Packer type and depth set							

Comment Details Circulated Est. 17 sks to surface on 7" surface cement job. Circulated Est. 16 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	120	15.6	1.18	142	Surface	8
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	50:50 Pozmix	130/125	13.2/14.2	1.64/1.27	213/186	250'	8
Tubing							

Drillers TD (ft) 2770' Loggers TD (ft) 2770'
 Deepest formation penetrated Berea Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 650'

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 _____
18 Centralizers every 84 from bottom on 4 1/2". Centralizer placed mid string on 7"

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>Berea</u>	<u>2461'- 2478'</u> TVD	<u>2586'- 2604'</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	475	0	475	
Pittsburgh Coal	475	480	475	480	
Sand/Shale	480	1744	480	1806	
Big Lime	1744	1946	1806	2028	
Big Injun	1946	2050	2028	2140	
Shale	2050	2441	2140	2565	
Coffee Shale	2441	2461	2565	2586	
Berea	2461	2478	2586	2604	Drilled directional S 30.6° E a distance of 645'
Shale	2478	2630	2604	2770	
TD	2630		2770		

Please insert additional pages as applicable.

Drilling Contractor Noah Horn Well Drilling
 Address 1070 Sandy Valley Lane City Vansant State VA Zip 24656

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

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  Title Operations Manager Date 9/27/17

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

