

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

API 47-043-03568 County LINCOLN District DUVAL  
Quad GRIFFITHSVILLE 7.5' Pad Name W.S. MAY Field/Pool Name GRIFFITHSVILLE  
Farm name DAVID ADKINS Well Number 261  
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 4,232,264 M Easting 416,388 M  
Landing Point of Curve Northing \_\_\_\_\_ Easting \_\_\_\_\_  
Bottom Hole Northing 4,232,447 M Easting 416,436 M

Elevation (ft) 996' 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 12/16/16 Date drilling commenced 12/27/16 Date drilling ceased 1/5/17  
Date completion activities began 1/12/17 Date completion activities ceased 3/2/17  
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 \_\_\_\_\_  
Salt water depth(s) ft 1200', 1280' Void(s) encountered (Y/N) depths WV Department of  
Coal depth(s) ft 487'- 492' Cavern(s) encountered (Y/N) depths Environmental Protection  
Is coal being mined in area (Y/N) N

**APPROVED**

NAME: Jeffrey Smith  
DATE: 4-28-17

05/26/2017

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None

WR-35  
Rev. 8/23/13

API 47- 043 - 03568 Farm name DAVID ADKINS Well number 261

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"	548'	New	LS	64'	Y
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	6 1/4"	4 1/2"	2726.15'	New	J-55		N
Tubing							
Packer type and depth set							

Comment Details Circulated Est. 10 sks to surface on 7" surface cement job. Grouted surface w/ additional 10 sks. Did not circulate cement to surface on 4 1/2" cement job.

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	8
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	50:50 Pozmix	110/125	13.2/14.2	1.64/1.27	180/186	190'	8
Tubing							

Drillers TD (ft) 2750' Loggers TD (ft) 2752'  
 Deepest formation penetrated Berea Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 600'

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"

WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS \_\_\_\_\_ **RECEIVED**  
 Office of Oil and Gas

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_ **MAR 06 2017**

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED \_\_\_\_\_ **WV Department of Environmental Protection**

05/26/2017



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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Berea</u>	<u>2469'- 2490'</u> TVD	<u>2577'- 2598'</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 <sub>2</sub> S, ETC)
Sand/Shale	0	487	0	487	
Pittsburgh Coal	487	492	487	492	
Sand/Shale	492	1750	492	1830	
Big Lime	1750	1954	1830	2050	
Big Injun	1954	2057	2050	2150	
Shale	2057	2449	2150	2556	
Coffee Shale	2449	2469	2556	2577	
Berea	2469	2490	2577	2598	Drilled directional N 20.6° E a distance of 527'
Shale	2490	2642	2598	2750	
TD	2642		2750		

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 13211 Old Hwy 50 City Flora State IL Zip 62839

Cementing Company Baker Hughes  
Address 837 Phillippi Pike City Clarksburg State WV Zip 26301

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 Helman Telephone 304-420-1107 Date 3/3/17  
Signature *Roger Helman* Title Operations Manager Date MAR 06 2017

Submittal of Hydraulic Fracturing Chemical Disclosure Information

Attach copy of FRACFOCUS Registry

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Office of Oil and Gas  
WV Department of  
Environmental Protection  
05/26/2017

