

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

API 47 - 087 - 04738 County ROANE District SPENCER  
Quad ARNOLDSBURG Pad Name \_\_\_\_\_ Field/Pool Name \_\_\_\_\_  
Farm name GENE POTTS Well Number POTTS #2  
Operator (as registered with the OOG) ROY G. HILDRETH AND SON, INC.  
Address P. O. BOX 1007 City SPENCER State WV Zip 25276

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 652,542 Easting 1,900,889  
Landing Point of Curve Northing N/A Easting N/A  
Bottom Hole Northing \_\_\_\_\_ Easting \_\_\_\_\_

Elevation (ft) 1034' 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)  
CLA STA, SOAP

Date permit issued 7/1/14 Date drilling commenced 8/4/2014 Date drilling ceased 8/09/2014  
Date completion activities began 9/12/2014 Date completion activities ceased 11/7/2014  
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

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

Freshwater depth(s) ft 110 EST Open mine(s) (Y/N) depths NO  
Salt water depth(s) ft 1,845 1/2", 1,865 2" Void(s) encountered (Y/N) depths NO  
Coal depth(s) ft NONE Cavern(s) encountered (Y/N) depths NO  
Is coal being mined in area (Y/N) NO

Reviewed by:  
A.L. 5/19/15 ✓  
W.S. on 06/12/2015

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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		9 5/8"	30'	NEW	32#		PULLED
Surface	8 7/8"	7"	337'	NEW	17#	85'	YES, CTS *
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	6 3/8"	4 1/2"	2,286'	NEW	11.6#		NO, 1340' TOP OF CEMENT
Tubing							
Packer type and depth set							

Comment Details \_\_\_\_\_

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	A/1	65	15.6	1.18	76.7	CTS - 45% EXCESS	12
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	A/1	90	15.6	1.18	106	1,340'	
Tubing							

Drillers TD (ft) 2336' Loggers TD (ft) 2,286  
 Deepest formation penetrated INJUN Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) N/A

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 7" - 127', 251'  
4 1/2" - 2,200', 2,116', 1,864', 1,648'

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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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>INJUN</u>	<u>2,156</u> TVD	<u>2,188</u> MD
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 385 psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST 12 hrs

OPEN FLOW Gas Oil NGL Water GAS MEASURED BY  
 SHOW mcfpd  SHOW 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)
	0		0		
SLATE & SHALE	0	900			
SLATE & SHALE	900	1296			
SALT SAND	1296	1437			
SLATE & SHALE	1437	1813			
SALT SAND	1813	1964			
MAXON	1964	1981			
BIG LIME	1981	2155			
INJUN	2155	2188			
SLATE & SHALE	2188	2336			

Please insert additional pages as applicable.

Drilling Contractor R & R WELL SERVICE, LLC  
 Address 42 LYNCH RIDGE City WALTON State WV Zip 25286

Logging Company NABORS COMPLETION & PRODUCTION SERVICES, INC. (BOND & GAMMA RAY)  
 Address P O BOX 975682 City DALLAS State TX Zip 75397-5682

Cementing Company UNIVERSAL WELL SERVICES, INC. (4 1/2") ADDRESS AS BELOW  
 Address ROY G. HILDRETH & SON, INC. City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Stimulating Company UNIVERSAL WELL SERVICES, INC.  
 Address P O BOX 200969 City DALLAS State TX Zip 75380

Please insert additional pages as applicable.

Completed by JON R. HILDRETH Telephone 304-927-2130  
 Signature *Jon R. Hildreth* Title SECRETARY Date 1/2/2015

MAR 10 2015

RECEIVED  
Office of Oil and Gas

WV Department of Environmental Protection

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

06/12/2015