

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

API 47-087-04739 County ROANE District SPENCER
Quad ARNOLDSBURG Pad Name _____ Field/Pool Name _____
Farm name GENE POTTS Well Number POTTS #3
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 653,142 Easting 1,901,110
Landing Point of Curve Northing N/A Easting N/A
Bottom Hole Northing _____ Easting _____

Elevation (ft) 973' 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 8/11/2014 Date drilling ceased 8/15/2014
Date completion activities began 9/17/2014 Date completion activities ceased 11/14/2014
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 100' EST.-NOT DETECTED Open mine(s) (Y/N) depths NO
Salt water depth(s) ft 1,785' - 1/2", 1,805' - 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

NO
RECEIVED
Office of Oil and Gas
NO
NO
MAR 10 2015
Reviewed by:
WV Department of
Environmental Protection
W.S. 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"	336'	NEW	17#	85'	YES, CTS *
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	6 3/8"	4 1/2"	2,278	NEW	11.6#		NO, 1,386' 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 ³ /sks)	Volume (ft ³)	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	80	14.4	1.28	102.4	1,386'	
Tubing							

Drillers TD (ft) 2306' Loggers TD (ft) 2278'
 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" - 128', 253'
4 1/2" - 2,162', 2,078', 1,879', 1,683'

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>2,086'</u>	<u>TVD</u>	<u>2,126'</u> <u>MD</u>
_____	_____	_____	_____
_____	_____	_____	_____

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	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	0		0		
SLATE & SHALE	0	850			
SLATE & SHALE	850	1206			
SALT	1206	1349			
SLATE & SHALE	1349	1721			
SALT SAND	1721	1872			
SLATE & SHALE	1872	1900			
MAXON	1900	1917			
BIG LIME	1917	2085			
INJUN	2085	2126			
SLATE & SHALE	2126	2298			

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 & OPEN HOLE)
 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. DID 7" City _____ State _____ Zip _____

Stimulating Company UNIVERSAL WELL SERVICES, INC.
 Address P O BOX 200969 City DALLAS State TX Zip 75326

Please insert additional pages as applicable.

Completed by JON R. HILDRETH Telephone 304-927-2130
 Signature *Jon R. Hildreth* Title SECRETARY Date 1/2/2014 1/2/15

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

RECEIVED
Office of Oil and Gas

WV Department of
Environmental Protection
06/12/2015