



Regulatory Department

August 18, 2014

VIA UPS NEXT DAY AIR

Mr. Gene Smith
West Virginia Department of Environmental Protection
Office of Oil & Gas
601 57th Street
Charleston, WV 25304

Re: WR-35 – Carl Rotter OHI 1H

Dear Mr. Smith:

Chesapeake Appalachia, L.L.C. submits the *Operator's Interim Report of Well Work* in duplicate for the above captioned well(s) located in Ohio County.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete.

If you have any questions or require additional information please feel free to contact me at (405)935-4158 or marlene.williams@chk.com.

Sincerely,

Chesapeake Appalachia, L.L.C

A handwritten signature in cursive script that reads "Marlene Williams".

Marlene Williams
Regulatory Analyst II

Enclosure(s)

cc: West Virginia Geological and Economic Survey

Chesapeake Energy Corporation

P.O. Box 18496 | Oklahoma City, OK 73154-0496 | 6100 N. Western Avenue | Oklahoma City, OK 73118

405-848-8000

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

API 47-069-00171 County Ohio District Liberty
Quad Valley Grove Pad Name Carl Rotter OHI Field/Pool Name _____
Farm name Carl Rotter OHI 1H Well Number 837750
Operator (as registered with the OOG) Chesapeake Appalachia, L.L.C.
Address P.O. Box 18496 City Oklahoma City State OK Zip 73154-0496

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4439131.7 Easting 539000.9
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing 4441580.1 Easting 537549.9

Elevation (ft) 1,340' 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)
SOBM

Date permit issued 6-13-2013 Date drilling commenced 12-2-2013 Date drilling ceased 12-31-2013
Date completion activities began _____ Date completion activities ceased _____
Verbal plugging (Y/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 622' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 830' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 742' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

API 47-069 - 00171 Farm name Carl Rotter OHI 1H Well number 837750

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	26"	20"	122'	New	J-55 / 94#		Y
Surface	17 1/2"	13 3/8"	765'	New	J-55 / 54.5#		Y
Coal							
Intermediate 1	12 1/4"	9 5/8"	2,254'	New	J-55 / 40#		Y
Intermediate 2							
Intermediate 3							
Production	8 3/4" / 8 1/2"	5 1/2"	15,856'	New	P-110 / 20#		Y
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	A	225 / 203	15.60	1.20	513.6	Surface	8
Surface	A	692	15.60	1.21	837.32	Surface	8
Coal							
Intermediate 1	A	793	15.60	1.18	935.74	Surface	8
Intermediate 2							
Intermediate 3							
Production	H	927 / 2,308	15.60	1.18	3817.3	970'	8
Tubing							

Drillers TD (ft) _____ Loggers TD (ft) _____

Deepest formation penetrated Marcellus Plug back to (ft) _____

Plug back procedure _____

Kick off depth (ft) 5,648'

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 _____

Surface / Coal - Run centralizers in the middle and top of the first joint, top of the third jt and every 4th joint to surface.

Production - Run 1st centralizer 3' from Shoe, 2nd at top of the first joint and then one every 3rd joint to TOC.

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 _____

API 47- 069 - 00171 Farm name Carl Rotter OHI 1H Well number 837750

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>6555</u> TVD	<u>6955</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)
	0		0		
SS/Sh	0	200	0	200	Sandstone and Shale
SS/Sh/Minor LS	200	742	200	742	Sandstone, Shale, and Minor Limestone
Pitts Coal	742	752	742	752	Pittsburgh Coal
SS/Siltstone/Sh	752	1520	752	1520	Sandstone, Siltstone, and Shale
Shale/Minor SS	1520	1780	1520	1780	Shale with Minor Sandstone
Big Lime	1780	1822	1780	1822	Big Lime
Big Injun SS	1822	2097	1822	2097	Big Injun Sandstone
Grey Shale	2097	6386	2097	6566	Grey Devonian Shale
Geneseo Sh	6386	6404	6566	6597	Geneseo Shale
Tully LS	6404	6437	6597	6656	Tully Limestone
Hamilton Sh	6437	6555	6656	6955	Hamilton Shale
Marcellus Sh	6555	TD	6955	TD	Marcellus Shale
TD		6486		15856	TD

Please insert additional pages as applicable.

Drilling Contractor Nomac Drilling
Address 171 Locust Ave Extension City Mt. Morris State PA Zip 15349

Logging Company Nomac Drilling
Address 171 Locust Ave Extension City Mt. Morris State PA Zip 15349

Cementing Company Schlumberger
Address 1080 U.S. 33 City Weston State WV Zip 26452

Stimulating Company _____
Address _____ City _____ State _____ Zip _____

Please insert additional pages as applicable.

Completed by Marlene Williams Telephone 405-935-4158
Signature *Marlene Williams* Title Regulatory Analyst II Date 8/18/14

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Department of Environmental Protection - Office of Oil and Gas
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Completed by Marlene Williams Telephone 405-935-4158
 Signature Marlene Williams Title Regulatory Analyst II Date 8/18/14

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



UPS Shipping Form



Carrier Information

Carrier UPS
 Destination Domestic

Addressee

Company Shipping To WV DEP
 Attention To Mr. Gene Smith
 Address: Office of Oil & Gas
 601 57th Street
 City Charleston
 State WV
 Country US
 Postal Code 25304
 Phone 3049260499
 Email Gene.C.Smith@wv.gov

Service Type

Next Day Air

Delivery typically by 10:30 a.m.

This service provides guaranteed next-business-day delivery from and to most addresses in the US 50 and Puerto Rico, with some limitations in Alaska and Hawaii.

Shipment Details

Package Reference 1 Interim completion

Signature Required

Sender Info

Sender Name Marlene Williams
 Sender Email marlene.williams@chk.com

Carl Rottler OHI IH