



Regulatory Department

January 16, 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 – David Reinbeau MSH 5H (API #51-01630)

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 Marshall 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 blue ink that reads "Marlene Williams".

Marlene Williams
Regulatory Analyst

Enclosure(s)

cc: West Virginia Geological and Economic Survey

Received

JAN 21 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

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

API 47 - 051 - 01630 County Marshall District Union
Quad Moundsville Pad Name David Reinbeau Pad Field/Pool Name _____
Farm name David Reinbeau MSH 5H Well Number 837280
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 545845.1 Easting 1643116.2
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing 552855.9 Easting 1641767.5

Elevation (ft) 1250 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 5/8/2013 Date drilling commenced 8/8/2013 Date drilling ceased 8/24/2013
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 630' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1426' Void(s) encountered (Y/N) depths Received
Coal depth(s) ft 758' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Received
JAN 21 2014
Reviewed by:
Office of Oil and Gas
WV Dept. of Environmental Protection

API 47-051 - 01630 Farm name David Reinbeau MSH 5H Well number 837280

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	30"	20"	118'	New	J-55 94#		Y
Surface	17 1/2"	13 3/8"	804'	New	J-55 54.5#		Y
Coal							
Intermediate 1	12 1/4"	9 5/8"	2174'	New	J-55 40#		Y
Intermediate 2							
Intermediate 3							
Production	8 3/4" / 8 1/2"	5 1/2"	13648'	New	P-110 20#		Y
Tubing		2 3/8"	Approx. 6737'	New	N-80		
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	Class A	193	15.60	1.20	231.6	Surface	8
Surface	Class A	730	15.6	1.20	876	Surface	8
Coal							
Intermediate 1	Class A	724	15.6	1.24	897.76	Surface	8
Intermediate 2							
Intermediate 3							
Production	Class H	646 / 4932	15.6	1.36 / 1.16	3456.28	646	8
Tubing	NA		NA	NA		NA	

Drillers TD (ft) 13648' Loggers TD (ft) _____

Deepest formation penetrated Marcellus Plug back to (ft) NA

Plug back procedure NA

Kick off depth (ft) 5635

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 Received

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED JAN 21 2014

Maximum TVD of wellbore: 6359 ft TVD @ 7124 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SHALE/SS	0	0	150	150
SS	150	150	180	180
SS/LS	180	180	210	210
SS/SLTSTN	210	210	480	480
SHALE/SS	480	480	510	510
SS/SHALE	510	510	540	540
SHALE/SLTSTN	540	540	600	600
SHALE/LS	600	600	630	630
SHALE/SS	630	630	690	690
LS/SHALE	690	690	720	720
SHALE/LS	720	720	758	758
PITTSBURGH COAL	758	758	763	763
SHALE/LS	763	763	840	840
SHALE	840	840	870	870
SHALE/SLTSTN	870	870	930	930
SS/SLTSTN	930	930	960	960
SHALE/SLTSTN	960	960	990	990
SHALE/LS	990	990	1020	1020
SHALE/SS	1020	1020	1050	1050
SS/SHALE	1050	1050	1110	1110
SHALE/SLTSTN	1110	1110	1140	1140
SHALE/SS	1140	1140	1230	1230
SS/SHALE	1230	1230	1260	1260
SHALE/LS	1260	1260	1320	1320
SHALE/SS	1320	1320	1380	1380
SS/SHALE	1380	1380	1410	1410
SHALE/SS	1410	1410	1440	1440
SS	1440	1440	1500	1500
SHALE/SS	1500	1500	1530	1530
SS/SHALE	1530	1530	1590	1590
SHALE/SS	1590	1590	1680	1680
SS/SHALE	1680	1680	1800	1800
BIG LIME	1800	1800	1860	1860
BIG INJUN	1860	1860	2018	2018
SHALE/SS	2018	2018	2040	2040
SHALE	2040	2040	2130	2130
SHALE/SS	2130	2130	2190	2190
SHALE	2190	2190	2310	2310
SHALE/SS	2310	2310	2400	2400

Received

JAN 21 2014

SHALE	2400	2400	6422	6177
GENESECO	6422	6177	6471	6195
TULLY	6471	6195	6576	6231
HAMILTON	6576	6231	6836	6309
MARCELLUS	6836	6309	13647	6289
TD	13647	6289		0

Received

JAN 21 2014

Office of Oil and Gas
 WV Dept. of Environmental Protection

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

API 47-051-01630 County Marshall District Union
Quad Moundsville Pad Name David Reinbeau Pad Field/Pool Name _____
Farm name David Reinbeau MSH 5H Well Number 837280
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 545845.1 Easting 1643116.2
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing 552855.9 Easting 1641767.5

Elevation (ft) 1250 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 5/8/2013 Date drilling commenced 8/8/2013 Date drilling ceased 8/24/2013
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 630' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1426' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 758' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Received
JAN 21 2014
Reviewed by: _____
Office of Oil and Gas
Department of Environmental Protection

API 47-051 - 01630 Farm name David Reinbeau MSH 5H Well number 837280

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	30"	20"	118'	New	J-55 94#		Y
Surface	17 1/2"	13 3/8"	804'	New	J-55 54.5#		Y
Coal							
Intermediate 1	12 1/4"	9 5/8"	2174'	New	J-55 40#		Y
Intermediate 2							
Intermediate 3							
Production	8 3/4" / 8 1/2"	5 1/2"	13648'	New	P-110 20#		Y
Tubing		2 3/8"	Approx. 6737'	New	N-80		
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	Class A	193	15.60	1.20	231.6	Surface	8
Surface	Class A	730	15.6	1.20	876	Surface	8
Coal							
Intermediate 1	Class A	724	15.6	1.24	897.76	Surface	8
Intermediate 2							
Intermediate 3							
Production	Class H	646 / 4932	15.6	1.36 / 1.16	3456.28	646	8
Tubing	NA		NA	NA		NA	

Drillers TD (ft) 13648' Loggers TD (ft) _____
 Deepest formation penetrated Marcellus Plug back to (ft) NA
 Plug back procedure NA

Kick off depth (ft) 5635

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 J 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 Received

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED JAN 21 2014

API 47- 051 - 01630 Farm name David Reinbeau MSH 5H Well number 837280

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
	TVD	MD
Marcellus		

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	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		
See Attached					

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

Received

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

Stimulating Company _____
Address _____ City _____ State Office of Oil and Gas

Please insert additional pages as applicable. WV Dept. of Environmental Protection

Completed by Marlene Williams Telephone 405-935-4158
Signature Marlene Williams Title Regulatory Analyst Date 1-16-2014

Maximum TVD of wellbore: 6359 ft TVD @ 7124 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SHALE/SS	0	0	150	150
SS	150	150	180	180
SS/LS	180	180	210	210
SS/SLTSTN	210	210	480	480
SHALE/SS	480	480	510	510
SS/SHALE	510	510	540	540
SHALE/SLTSTN	540	540	600	600
SHALE/LS	600	600	630	630
SHALE/SS	630	630	690	690
LS/SHALE	690	690	720	720
SHALE/LS	720	720	758	758
PITTSBURGH COAL	758	758	763	763
SHALE/LS	763	763	840	840
SHALE	840	840	870	870
SHALE/SLTSTN	870	870	930	930
SS/SLTSTN	930	930	960	960
SHALE/SLTSTN	960	960	990	990
SHALE/LS	990	990	1020	1020
SHALE/SS	1020	1020	1050	1050
SS/SHALE	1050	1050	1110	1110
SHALE/SLTSTN	1110	1110	1140	1140
SHALE/SS	1140	1140	1230	1230
SS/SHALE	1230	1230	1260	1260
SHALE/LS	1260	1260	1320	1320
SHALE/SS	1320	1320	1380	1380
SS/SHALE	1380	1380	1410	1410
SHALE/SS	1410	1410	1440	1440
SS	1440	1440	1500	1500
SHALE/SS	1500	1500	1530	1530
SS/SHALE	1530	1530	1590	1590
SHALE/SS	1590	1590	1680	1680
SS/SHALE	1680	1680	1800	1800
BIG LIME	1800	1800	1860	1860
BIG INJUN	1860	1860	2018	2018
SHALE/SS	2018	2018	2040	2040
SHALE	2040	2040	2130	2130
SHALE/SS	2130	2130	2190	2190
SHALE	2190	2190	2310	2310
SHALE/SS	2310	2310	2400	2400

Received

JAN 21 2014

SHALE	2400	2400	6422	6177
GENESEO	6422	6177	6471	6195
TULLY	6471	6195	6576	6231
HAMILTON	6576	6231	6836	6309
MARCELLUS	6836	6309	13647	6289
TD	13647	6289		0

Received

JAN 21 2014

Office of Oil and Gas
WV Dept. of Environmental Protection