



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 – Chad Glauser OHI 10H (API #69-00167)

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

Enclosure(s)

cc: West Virginia Geological and Economic Survey

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

API 47 - 069 - 00167 County Ohio District Triadelphia
Quad Valley Grove Pad Name Chad Glauser OHI Field/Pool Name
Farm name Chad Glauser OHI 10H Well Number 833631
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 559131.1 Easting 1661226.3
Landing Point of Curve Northing 558863.0 Easting 1662990.3
Bottom Hole Northing 553336.4 Easting 1666226.5

Elevation (ft) 1,240 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 5/29/2013 Date drilling commenced 7/21/2013 Date drilling ceased 8/9/2013
Date completion activities began 9/29/2013 Date completion activities ceased 10/4/2013
Verbal plugging (Y/N) NA Date permission granted NA Granted by NA

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

Freshwater depth(s) ft 562' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1,135' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 678' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) Y

Reviewed by:

API 47-069 - 00167 Farm name Chad Glauser OHI 10H Well number 833631

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	24"	20"	118'	New	J-55/94#		Y
Surface	17 1/2"	13 3/8"	757'	New	J-55/54.50#		Y
Coal							
Intermediate 1	12 1/4"	9 5/8"	2,114'	New	J-55/40#		Y
Intermediate 2							
Intermediate 3							
Production	8 3/4" / 8 1/2"	5 1/2"	13,037'	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	310	15.60	1.20	372	Surface	8
Surface	A	680	15.60	1.20	816	Surface	8
Coal							
Intermediate 1	A	716	15.60	1.24	887.84	Surface	8
Intermediate 2							
Intermediate 3							
Production	A	995 / 1534	15.0 / 15.8	1.36 / 1.16	3132.64	324'	8
Tubing							

Drillers TD (ft) 13,040' Loggers TD (ft) _____
 Deepest formation penetrated Marcellus Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) 5,504'

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 - 00167 Farm name Chad Glauser OHI 10H Well number 833631

PRODUCING FORMATION(S)	DEPTHS
Marcellus Shale	6,495 TVD 7,300-12,877 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		
LS/SS	0	644	0	644	LIMESTONE + SANDSTONE
COAL	644	654	644	654	PITTSBURGH COAL
SH/SS	654	1720	654	1720	SHALE + MINOR SANDSTONE
LS	1720	1771	1720	1774	BIG LIME
BIG INJUN	1771	1967	1774	1971	BIG INJUN SANDSTONE
SHALE	1967	6290	1971	6754	GREY SHALE
GENESEO	6290	6302	6754	6776	GENESEO SHALE
TULLY	6302	6333	6776	6841	TULLY LIMESTONE
HAMILTON	6333	6452	6841	7275	HAMILTON SHALE
MARCELLUS	6452	TD	7275	TD	MARCELLUS SHALE ~3,500 GAS UNITS

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 1325 S. Dairy Ashford Dr City Houston State TX Zip 77077

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

Please insert additional pages as applicable.

Completed by Marlene Williams Telephone 405-935-4158
 Signature Marlene Williams Title Regulatory Analyst # Date 1-14-2014

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

PERFORATION RECORD ATTACHMENT

Well Number and Name: 833631 Chad Glauser OHI 10H

PERFORATION RECORD					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	9/29/2013	12,725	12,877	10	Marcellus Shale
2	9/29/2013	12,523	12,675	10	Marcellus Shale
3	9/29/2013	12,320	12,473	10	Marcellus Shale
4	9/30/2013	12,118	12,270	10	Marcellus Shale
5	9/30/2013	11,916	12,072	10	Marcellus Shale
6	9/30/2013	11,714	11,866	10	Marcellus Shale
7	9/30/2013	11,511	11,664	10	Marcellus Shale
8	9/30/2013	11,309	11,461	10	Marcellus Shale
9	9/30/2013	11,107	11,259	10	Marcellus Shale
10	10/1/2013	10,905	11,053	10	Marcellus Shale
11	10/1/2013	10,708	10,855	10	Marcellus Shale
12	10/1/2013	10,500	10,653	10	Marcellus Shale
13	10/1/2013	10,298	10,450	10	Marcellus Shale
14	10/1/2013	10,096	10,248	10	Marcellus Shale
15	10/2/2013	9,894	10,046	10	Marcellus Shale
16	10/2/2013	9,692	9,844	10	Marcellus Shale
17	10/2/2013	9,489	9,645	10	Marcellus Shale
18	10/2/2013	9,284	9,439	10	Marcellus Shale
19	10/2/2013	9,085	9,237	10	Marcellus Shale
20	10/2/2013	8,883	9,035	10	Marcellus Shale
21	10/3/2013	8,680	8,833	10	Marcellus Shale
22	10/3/2013	8,478	8,630	10	Marcellus Shale
23	10/3/2013	8,273	8,428	10	Marcellus Shale
24	10/3/2013	8,027	8,212	10	Marcellus Shale
25	10/3/2013	7,783	7,969	10	Marcellus Shale
26	10/3/2013	7,540	7,725	10	Marcellus Shale
27	10/3/2013	7,300	7,497	10	Marcellus Shale

STIMULATION INFORMATION PER STAGE

Well Number and Name: 833631 Chad Glauser OHI 10H

STIMULATION RECORD							
Stage No.	Stimulation Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)
1	9/29/2013	80	7,812	6,662	4,030	294,800	5,645
2	9/29/2013	76	7,999	6,427	3,901	299,720	5,931
3	9/29/2013	75	7,845	5,828	4,041	299,800	5,708
4	9/30/2013	80	7,294	5,993	4,202	300,640	5,712
5	9/30/2013	79	7,268	5,997	4,122	301,480	5,857
6	9/30/2013	79	7,166	6,476	4,216	300,060	6,038
7	9/30/2013	75	7,290	5,871	4,160	299,600	5,777
8	9/30/2013	78	7,303	6,173	4,009	296,140	5,671
9	10/1/2013	79	7,278	6,711	4,041	298,620	5,643
10	10/1/2013	80	7,011	6,429	4,081	301,160	5,812
11	10/1/2013	80	7,145	5,891	4,029	299,960	5,913
12	10/1/2013	78	7,146	6,213	4,017	300,160	6,246
13	10/1/2013	79	7,331	6,367	4,185	290,120	5,607
14	10/1/2013	76	7,372	6,030	4,315	300,880	5,571
15	10/2/2013	80	7,169	6,113	4,267	301,700	5,619
16	10/2/2013	79	7,538	6,272	4,274	300,960	6,257
17	10/2/2013	68	7,465	6,996	4,427	300,200	6,801
18	10/2/2013	74	7,830	6,197	4,452	298,940	5,871
19	10/2/2013	78	6,711	5,980	4,355	297,880	5,572
20	10/2/2013	79	6,891	5,676	4,277	297,180	5,631
21	10/3/2013	79	6,514	5,425	4,566	300,680	5,635
22	10/3/2013	78	6,768	6,102	4,229	298,860	5,578
23	10/3/2013	78	6,848	6,363	4,060	300,240	5,538
24	10/3/2013	76	8,426	6,820	2,551	302,420	6,193
25	10/3/2013	78	6,777	6,073	4,016	298,560	5,624
26	10/3/2013	78	6,375	6,422	4,199	299,160	5,637
27	10/4/2013	57	8,229	6,203	4,107	299,040	8,033

**UPS Shipping Form**

Request ID: 00084204

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 WR-35 Chad Glauser 10

 Signature Required**Sender Info**

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

**UPS Shipping Form**

Request ID: 00084207

Carrier Information

Carrier UPS
Destination Domestic

Addressee

Company Shipping To WV Geological Survey
Attention To Geological Department
Address: 1 Mont Chateau Road
City Morgantown
State WV
Country US
Postal Code 26508
Phone 3045942331

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.

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Sender Name Marlene Williams
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