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

API 47 - 069 _ 00166	County Ohio	Distric	t Triadelphia	
Quad Valley Grove	Pad Name G W Re	ntals LLC. Field/I	ool Name	
Farm name G W Rentals LLC OHI 8H		Well 1	Number 83646	34
Operator (as registered with the OOG)	nesapeake Appala	chia, L.L.C.		
Address P.O. Box 18496	City Oklah	oma City St	ate OK	Zip 73154-0496
Landing Point of Curve Nort	Attach an as-drilled phing 4436087.2 hing 4434176.8	Easting	7033.0	
Elevation (ft) 1,246' GL	Type of Well	New □ Existing T	ype of Report	Interim □Final
Permit Type Deviated Horiz	ontal Horizontal	6A 🗆 Vertical	Depth Type	□ Deep
Type of Operation □ Convert □ Deep	en 🛢 Drill 🗆 P	lug Back 🛘 🗆 Redrilling	□ Rework	□ Stimulate
Well Type □ Brine Disposal □ CBM	Gas □ Oil □ Secon	ndary Recovery	Mining Stor	age 🗆 Other
Type of Completion	n Mud ■Fresh Wate			□ Other
Date permit issued 5-22-2013 Date completion activities began	Date drilling comme	enced 10-17-2013		eased10-27-2013
Verbal plugging (Y/N) Dat	e permission granted	G	ranted by	
Please note: Operator is required to subm	uit a plugging applicat	ion within 5 days of verbal	permission to pl	
rreshwater depth(s) it		Open mine(s) (Y/N) depths		Y 610'
Sait water depth(s) it		Void(s) encountered (Y/N) Cavern(s) encountered (Y/N)		NI .
Coal depth(s) It	NI NI	Cavern(s) encountered (17)	1) depuis	
Is coal being mined in area (Y/N)		_ 		Reviewed by:

WR-35 Rev. 8/23/13

ASING FRINGS onductor urface on termediate 1 termediate 2	00166 Hole Size 30"	Farm na: Casing Size	_{me} G W Rei	New or		We	ll number		
PRINGS Onductor urface oal termediate 1	Size	-		Mouse or	~ .				
onductor urface oal termediate 1			Depth	Used	Grade wt/ft		Basket Depth(s)		d cement circulate (Y/N) Provide details below*
oal termediate 1		20"	122'	New	K-55	94#			Y
termediate 1	17 1/2"	13 3/8"	702'	New	J-55	54.5#			Y
termediate 2	12 1/4"	9 5/8"	2,154'	New	J-55	40#			Y
termediate 3									
oduction	8 3/4" / 8 1/2"	5 1/2"	13,331'	New	P-11	0 20#			Y
ibing							<u> </u>		
cker type and dep	oth set								
omment Details							<u>. </u>		
CEMENT	Class/Type	Numbe	r Slu	πv	Yield	Volum	ne .	Cement	woc
DATA	of Cement	of Sack			ft ³/sks)	(ft 3)		Top (MD)	(hrs)
onductor	A	311	15.		1.20	373.2		Surface	88
ırface	A	592	15.	60	1.21	716.3	2	Surface	8
oal							_	C.,.4	
termediate 1	Α	770	15.	60	1.19	916.3	3	Surface	8
termediate 2									
termediate 3								O. dans	
roduction	Н	1,057 / 1,	660 15.	60 1.	18 / 1.18	3,206.	06	Surface	8
ubing							<u> </u>		
Orillers TD (ft)	13,331'			Loggers	TD (ft)				
, ,									
-	=								
		<u> </u>					· · · · · · · · · · · · · · · · · · ·		
Cick off depth	(ft)		<u></u>						
Check all wirel	line logs run	□ caliper	□ density	□ devi	ated/directi	onal [induction	n	
	_	□ neutron	□ resistivit	y □ gamı	na ray	1	□ tempera	ture i	□sonic
							.,	. 1 – 32	
Weil cored 🗆	Yes 🖪 No	Conventi	onal Sid	ewall	W	ere cuttii	ngs collect	tea • Y	es 🗆 No
DESCRIBE TH	HE CENTRAL	IZER PLACEM	ENT USED F	OR EACH	CASING S	TRING			
Surface / Coal - Run centra	alizers in the middle and to	of the first joint, top of the to , 2nd at top of the first jo	nird it and every 4th joint t	o surface.				<u></u> _	
Production - Run 1st c	entranzer 3' mom Shoe	, zira at top of the mat jo	313 0,01 010 000						
WAS WELL C	COMPLETED .	AS SHOT HOL	E 🗅 Yes	⊐ No I	DETAILS				
WAS WELL (COMPLETED	OPEN HOLE?	□ Yes □	No DE	TAILS _				
						<u> </u>			

API	47- 069	00166	Farm name	G W Rentals LLC OHI 8H	Well number_	836464
LYY Y	-		1 001111 11001110			

PERFORATION RECORD

Stage No	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
-					
	····				
-					
-					

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
						 		
					· · · · · ·			
	· · · · · · · · · · · · · · · · · · ·			-				
			<u></u>					
				<u></u>			<u> </u>	l

Please insert additional pages as applicable.

□ Open Flow

NGL

City

City

City

City

Bottom Hole_

psi

	mcf	pd b	od bpd		bpd □ Estimated □ Orifice □ Pilot
LITHOLOGY/	TOP	воттом	TOP	воттом	
FORMATION	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DESCRIBE ROCK TYPE AND RECORD QUANTITYAND
	NAME TVD	TVD	MD	MD	TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H2S, ETC)
	0		0		
LS/SILTSTONE	0	603	0	603	LIMESTONE & SILTSTONE
COAL	603	613	603	613	PITTSBURGH COAL
LS/SS	613	920	613	920	LIMESTONE & SANDSTONE
SS/SILTSTONE	920	1730	920	1730	SANDSTONE & MINOR SILTSTONE
BIG LIME	1730	1797	1730	1797	BIG LIME
BIG INJUN	1797	2014	1797	2014	BIG INJUN SANDSTONE
SHALE	2014	6319	2014	6404	GREY SHALE
GENESEO	6319	6330	6404	6420	GENESEO SHALE
TULLY	6330	6362	6420	6470	TULLY LIMESTONE
HAMILTON	6362	6485	6470	6784	HAMILTON SHALE
MARCELLUS	6485	TD	6784	TD	MARCELLUS SHALE
		TD@6545		TD@13331	
-					
Please insert ad	ditional pages a	s applicable.			

Mt. Morris

Mt. Morris

Clarksburg

Please insert additional pages as applicable.

Drilling Contractor Nomac Drilling

Logging Company Nomac Drilling
Address 171 Locust Ave Extension

Cementing Company Baker Hughes

Address 37 Philippi Pike

Stimulating Company

Address

Address 171 Locust Ave Extension

Please insert additional pages as applicable.

Gas

□ Build up □ Drawdown

Surface

Oil

GAS TEST

OPEN FLOW

SHUT-IN PRESSURE

Telephone 405-935-4158

OIL TEST - Flow - Pump

_psi

Water

DURATION OF TEST hrs

GAS MEASURED BY

Completed by Marlene Williams Telephone
Signature Wallow Williams Title Regulatory Analyst II

Date 1-30-2014

Zip 15349

Zip_26301

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State

State

State

State

WR-35 Rev (9-11)

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

DATE:	9-26-2013
API#:	47-069-00165

ırm name: Clarence Farmer OHI 3H	Operat	Operator Well No.: 837453				
OCATION: Elevation: 1,330'		Quadrangle: Bethany				
District: Liberty	County	. Ohio				
Latitude: 9,550' Feet South of	f <u>40</u> Deg. 10	Min00				
Longitude 7,140' Feet West of	Deg. 32	Min30	Sec	Э.		
Company: Chesapeake Appalachia, L	L.C.					
Address: P.O. Box 18496	Casing Tubin	, I	Jsed in Irilling	Left in well	Cement fill up Cu. Ft.	
Oklahoma City, OK 73154-0496	2	D"	122'	122'	365 Cu. Ft.	
Agent: Eric Gillespie	13	3/8"	723'	723'	780 Cu. Ft.	
Inspector: Gayne J. Knitowski	9 5	/8"	2,080'	2,080'	887 Cu. Ft.	
Date Permit Issued: 5-6-2013	5 1	/2"	12,860'	12,860'	3,095 Cu. Ft.	
Date Well Work Commenced: 6-20-20	013					
Date Well Work Completed: 7-3-201	I3(Rig release date)					
Verbal Plugging:						
Date Permission granted on:						
Rotary Cable Rig						
Total Vertical Depth (ft): 6,321'				<u> </u>		
Total Measured Depth (ft): 12,860'		ļ				
Fresh Water Depth (ft.): 440'						
Salt Water Depth (ft.): 750'						
Is coal being mined in area (N/Y)? N						
Coal Depths (ft.): 633'						
Void(s) encountered (N/Y) Depth(s)	Y 633'					
OPEN FLOW DATA (If more than two producing formation Marcellus			npleting*			
Final open flowMCF/d	-		•	Estimated Fra Estimated Flo		
Time of open flow between initial and						
Static rock Pressurepsig (surfa	ace pressure) after	Hours				
Second producing formation	Pay zone dept	ı (ft)				
Gas: Initial open flowMCF/d Oil	l: Initial open flow	Bbl/	d			
Final open flowMCF/d	Final open flow		i		6.5	

Static rock Pressure _____psig (surface pressure) after _____Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Marline Williams
Signature

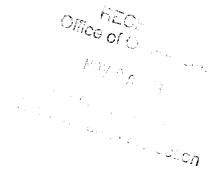
11-7-9013 Date

Were core samples taken?	YesNo_N	Were cu	ttings caught during dr	illing? Yes Y No	<u></u>
Were Electrical, Mechanica	al or Geophysical logs record	ded on this well? If y	es, please list GRMW	'D from 5,692' to 12	2,827'
FRACTURING OR STINDETAILED GEOLOGIC	A BELOW PUT THE MULATING, PHYSICAL ICAL RECORD OF THE DBY THE WELLBORE F	CHANGE, ETC. 2) E TOPS AND BOT	. THE WELL LOG V TOMS OF ALL FO	WHICH IS A SYSTEM	MATIC
Perforated Intervals, Fractu	iring, or Stimulating:				
Plug Back Details Including	g Plug Type and Depth(s):				
Formations Encountered:		Top Depth	ſ	Bottom Depth	
Surface:					
See attachment					
				Office of	
				May	
					THE STATE OF A
					∪ /)

LATERAL WELLBORE (no vertical pilot hole associated with this well)

Maximum TVD of wellbore: 6248 ft TVD @ 12827 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)	FLUID/GAS TYPE
SILTSTONE W/ SHALE	0	0	633	633	NA
PITTSBURG COAL	633	633	643	643	20 gas units
SHALE W/ SILTSTONE	643	643	1000	1000	NA
SS W/ SHALE	1000	1000	1610	1610	NA
BIG LIME	1610	1610	1754	1753	NA
BIG INJUN (SS)	1754	1753	1962	1960	250 gas units
SHALE W/ SILTSTONE	1962	1960	6204	6155	NA
GENESEO (SH)	6204	6155	6224	6169	1200 gas units
TULLY (LS)	6224	6169	6294	6215	NA
HAMILTON (SH)	6294	6215	6529	6321	800 gas units
MARCELLUS (SH)	6529	6321			2400 gas units
TD OF LATERAL			12827	6248	





Drilling Services

EOW Summary



Chesapeake CHESAPEAKE ENERGY

WELL: CLARENCE FARMER OHI 3H

OHIO COUNTY, WV

Prepared by: ADAM BORDELON

Submitted: AUGUST 18, 2013

and Gas

A SIVED

