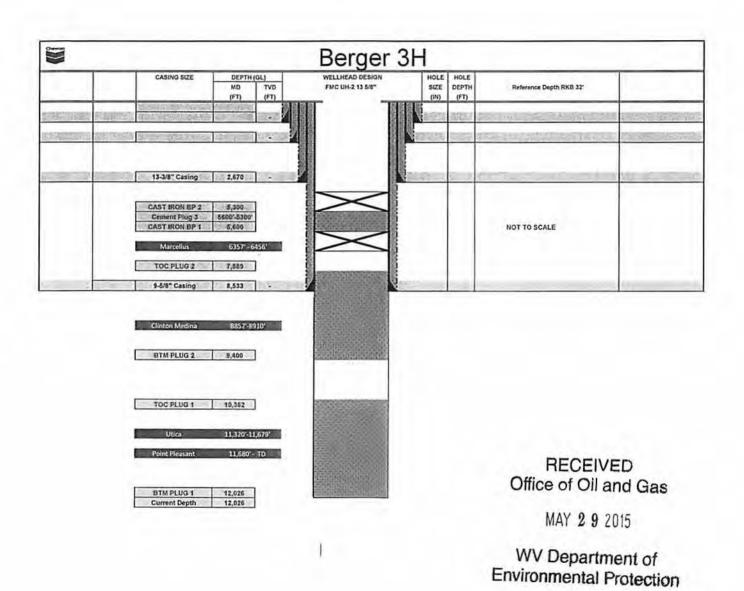
State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work JUN 18 2015

API <u>47</u> - 051 <u>01725</u> County Marshall	WV Dept. of Environmental Protection
Quad Powhatan Pad Name Berger Pad A	Field/Pool Name
	Well Number Berger 3H
Operator (as registered with the OOG) Chevron Appalachia, LLC	
	State PA Zip 15478
As Drilled location NAD 83/UTM Attach an as-drilled plat, profile vi Top hole Northing Landing Point of Curve Northing Bottom Hole Northing	EastingEastingEasting
Elevation (ft) 1292 GL Type of Well aNew DExist	ing Type of Report @Interim □Final
Permit Type Deviated Horizontal Horizontal Ver	rtical Depth Type @ Deep Shallow
Type of Operation Convert Deepen Drill Plug Back	Redrilling Rework Stimulate
Well Type □ Brine Disposal □ CBM ② Gas □ Oil □ Secondary Recover	y 🗆 Solution Mining 🗆 Storage 🗆 Other
Type of Completion	□Gas □ NGL □ Oil □ Other
Drilling Media Surface hole Air Mud Fresh Water Interm Production hole Air Mud Fresh Water Brine Mud Type(s) and Additive(s)	ediate hole
Date permit issued 5/27/2014 Date drilling commenced 6/26	5/2014 Date drilling ceased 5/8/2015
Date diffing confinenced	ion activities ceased
Verbal plugging (Y/N) Y Date permission granted 4/30/20	
Please note: Operator is required to submit a plugging application within 5 da	sys of verbal permission to plug
Freshwater depth(s) ft Open mine(s) (Y/N) depths N
Salt water depth(s) ft Void(s) encour	stered (Y/N) dcpthsN
Coal depth(s) ft 768-769,784-785, 830-837, 1411-1413, 1415-1418 Cavern(s) enco	untered (Y/N) depthsN
Is coal being mined in area (Y/N) No but not sealed	Reviewed by:



JUN 18 2015

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API 47- 051	01725 Farm name_BergerWell number_Berger 3H								
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		Basket Depth(s)		ent circulate (Y/ N) le details below
Conductor									
Surface									
Coal									
Intermediate 1									
Intermediate 2									
Intermediate 3									
Production								<u> </u>	
Tubing				<u></u>	<u> </u>				
Packer type and de	epth set								
Comment Details									
CEMENT DATA	Class/Type of Cement	Number of Sack			rield t ³/sks)	Volume	Ceme Top (M		WOC (hrs)
Conductor				•					
Surface									
Coal									4.
Intermediate 1							<u> </u>		
Intermediate 2						•			
Intermediate 3						•			
Production		, "			•	•			
Tubing		!			•				
Drillers TD (ft) 12026 PTB MD Loggers TD (ft) Deepest formation penetrated Point Pleasant Plug back to (ft) Plug back procedure Kick off depth (ft)									
Check all wireline logs run									
Well cored =	Yes 🗆 No	□ Convention	nal 🗆 Side	wall	W	ere cuttings	s collected 🗆	Yes □	No
DESCRIBE TI	HE CENTRAL	IZER PLACEME	NT USED FO	R EACH CA	ASING ST	TRING			
							_		
WAS WELL C	COMPLETED	AS SHOT HOLE	□ Yes □	No DE	ETAILS				
WAS WELL C	COMPLETED	OPEN HOLE?	□Yes □ N	o DETA	ails _				
WERE TRACI	ERS USED	Yes & No	TYPE OF T	RACER(S) I	JSED				

WR-	35
Dav	2/22/12

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API	47- 051 -	01725	Farm name Berger	Berger 3H Well number
API	47		Farm name	_Well number

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft	Number of Perforations	Formation(s)
: 1					
			•		· ·
		<u>.</u>	•		
L		<u>!</u>	L		

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>								
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Please insert additional pages as applicable.

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API 47- 051 - 01725 Fari			name Berger		Well number 3H			
PRODUCING	FORMATION(<u>s)</u> _	<u>DEPTHS</u>					
				TVD	MD			
				_ 1 1 0				
					receiv			
					O, V	C		
Please insert ad	lditional pages a				JUN 18 2019	5		
GAS TEST	□ Build up □	Drawdown	□ Open Flow	OI	IL TEST Flow Pump			
SHUT-IN PRE	SSURE Surf	ace	_psi Botto	om Hole	Office of Oil and Gas psi DURATION OF TEST Flowing Properties Pro			
OPEN FLOW	Gas	Oil	NGL	W	Vater GAS MEASURED BY	tectic		
OI BILLEO			opd	bpd	bpd :: Estimated :: Orifice :: Pilot			
LITHOLOGY/	TOP	воттом	TOP	воттом				
FORMATION	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPIH IN FT	DESCRIBE ROCK TYPE AND RECORD QUANTITYAND			
TOMMATION	NAME TVD	TVD	MD	MD	TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H2S, ET	C)		
	0	1	0	1,0	THE OF THE INC. (TABLE WATER, STATE,	<u>~/</u>		
Dunkard Group Sand	160	169	160	169	Fresh Water 169'MD 1° stream			
Piltsburgh Coal	830	837	830	837	Coal			
Salt Sand	1538	1568	1540	1570	Gas Show @ 1550' 6101 units			
Big Lime	1848	1928	1850	1930	Limestone: crm-wh, hd, crpxln			
Burgoon (Big Injun)	1927	2117	1930	2120	SS:offwh, wh, cons, cir, trans, icemt, fg-mg			
Berea Sand	2507	2530	2510	2533	SS: wh, cit, trans, tigy-gy, cns, lemt, mg-fg, abang-ang, ang, maph, non cale, it flat, exi fast cut, fnt oc	fr, Iso py		
Marcellus Shale	6404	6440	6405	6440	SHadragy, v.okgy /muszy, grty, statiky states, con cale, lso calet iso pyr, vol. Sigy, ligy /md_molt.mic.f	ALL VIEW		
Oriskany	6657	6761	6658	6762	SS: gry-bm, trnsl, med-fn gr, sbang-ang, calc mtx, tr is, tr s	sh		
Salina	7262	8209	7263	8210	Dol: med gry-brnsh gry, mdstn-pkstn. SALT: tms-cir, xin, ehd			
Lockport	8209	8582	8210	8582	DOL: d gry-blk, med gry ip, wkstn-pkstn, vf xln-microxin, mass-m			
Queenston	9109	9944	9110	9945	SH: rdsh gry, frm-sli hd, sbblky-amor, rgh-slty txt			
Utica	10938	11066	11310	11698	SH: dk gry-v dk gry, sft - frm, sbbiky-sbplty, sity-sli grity txt, mrly, sli call	c, cart		
Point Pleasant	11066		11698		SH: bit-brahbût, al firm-tirm, aft ip, abblity-abplity, ir pp pry, al grity txt, dull - occ al gay latr, al cat	c, v cart		
	lditional pages a	s applicable.	<u> </u>					
Drilling Contra	ctor SEE ATTA	JIILD	C't.		State Zip			
Address			City		State Zip	-		
Logging Comp	any							
Address			City		StateZip			
. = -						_		
Cementing Cor	mpany							
Address			City		State Zip	_		
Stimulatia a Ca								
	mpany				StateZip			
	lditional pages a		City		StateZip	-		
		• •						
Completed by	Jackie M. Şçhol	lar / Nicholas Si	affieri		Telephone 724.564.3721 / 724.564.3715			
Signature	in Ald	سريني	Title R	egulatory Comp	Telephone 724.564.3721 / 724.564.3715 pllance Team Lead Date 6/16/2015			
7.								
Submittal of Hy	ydraulic Fracturi	ing Chemical I	Disclosure Info	rmation A	Attach copy of FRACFOCUS Registry			

API: 47-051-01726 Well Name: Berger Well Number: Berger 7H

	DRILLING C	ONTRACTORS	
Driller	Driller	Driller	Driller
Name Rocky Mountain Drilling	Name Highlands Drilling LLC	Name Nabors Drilling USA	Name
Address 185 North Vernal Avenue, Suite 2	Address 900 Virginia Street East	Address 10100 NW 10th Street	Address
City – State – Zip Vernal, UT 84078	City - State - Zip Charleston, WV 25301	City - State - Zip Oklahoma City, OK 73127	City - State - Zip
Phone 435-789-3320	Phone 304-380-0114	Phone 405-324-8081	Phone