May 10, 2016

CERTIFIED MAIL: 7015 0640 0001 0567 4437

WV DEP Office of Oil and Gas 601 – 57th Street Charleston, WV 25304

RE: Amended Well Operator's Report of Well Work WR-35

Berger 1H

Dear Sir/Madam,

Enclosed here within please find one (1) Amended Well Operator's Report of Well Work WR-35 for the **Berger 1H**, **(API 47-051-01702)**. The following items have been amended:

Production Information

If you have any questions, please contact me at (724) 564-3721. Thank you.

Sincerely,

Chevron Appalachia, LLC

Jackie M. Scholar

Enclosures

Office of Oil and Gas

MAY 13 2016

WV Department of

Environmental Protection



Page of

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

API 47 051 01702	County Marsha	ıll Distr	_{ict} Clay	;
Quad Powhatan, OH-WV	Pad Name Berg	er Field	l/Pool Name	
Farm name_Berger		Wel	l Number 1H	
Operator (as registered with the OOG)	Chevron Appalac	hia, LLC		
Address 800 Mountain View Drive	City Sm	nithfield	State PA	Zip 15478
	Attach an as-drill Northing 4413872.10 Northing 4413780.46	ed plat, profile view, and dev Easting Easting	520992.07	
	Northing 4412347.83			
Elevation (ft) 1292' GL Permit Type Deviated Here	Type of Well orizontal Horizon		Type of Report Depth Type	Interim Final Deep Shallow
Type of Operation □ Convert □ D	eepen 🖥 Drill 🛭	□ Plug Back □ Redrilling	□ Rework ■	Stimulate
	-			
Well Type □ Brine Disposal □ CBM	I ■ Gas □ Oil □ Se	condary Recovery Solution	n Mining □ Stora	ge 🗆 Other
Type of Completion Single Mul	tiple Fluids Produ	ıced □ Brine ■Gas □	NGL □ Oil □	Other
Drilled with □ Cable ■ Rotary				
Drilling Media Surface hole ■ Air Production hole □ Air ■ Mud □			□ Air ■ Mud	□ Fresh Water □ Brine
Mud Type(s) and Additive(s) non aqueous fluid containing we	Fresh Water □ Brin		viscosity, and rh	neological control
agent, oil-wetting agent, fluid rhe			, <u></u>	- Cological Collinor
Date permit issued 2/26/2014	_ Date drilling com	menced 6/25/2014	Date drilling cea	sed 2/17/2015
Date completion activities began	8/4/2015	_ Date completion activities	ceased 12/	10/2015
Verbal plugging (Y/N)NI	Date permission grante	d G	ranted by	
Please note: Operator is required to su	bmit a plugging applic	ation within 5 days of verbal	PECI permission to plus Office of C	EIVED Dil and Gas
Freshwater depth(s) ft1	69' MD	Open mine(s) (Y/N) depths	MAY. 1	3 N2016
Salt water depth(s) ft	N/A	Void(s) encountered (Y/N)		N
Coal depth(s) ft 768'MD, 820'MD,	830'MD, 850'MD	Cavern(s) encountered (Y/I	O depths Depa	artment of
Is coal being mined in area (Y/N)	Υ		Environment	tal Protection
				Reviewed by:

API 47-051	01702	_ Farm name	Berger			We	ell number	 	
CASING STRINGS		Casing Size	Depth	New or Used	Grade wt/ft		Basket Depth(s)		ent circulate (Y/N) le details below*
Conductor	36	30	40	New		76#; X-42		TIOTR	te details below
Surface	17 1/2	13 3/8	303	New		i0#: J-55			
Coal		1			100			<u> </u>	
Intermediate i	12 1/4	9 5/8	2683	New	40	#; N-80		_	
Intermediate 2					3	.,			*
Intermediate 3		Ų.			_				
Production	8 1/2	5 1/2	13372	New	20#	; P-110	<u> </u>	+	
Tubing				11011	20	3		+	
Packer type and	depth set	I							.
Comment Details	S								
CEMENT DATA Conductor	Class/Type of Cement Bulk	Number of Sacks	Slurry wt (ppg		/ield	Volume (ft ²)	Cen		WOC (hrs)
Surface	Duik	384	15.60		 I.21	465	Cure	in an	
Coal	_	304	13.60	<u>, </u>	1.21	400	Surface		8
Intermediate I		925	15.60		1.23	4130	Surface		
Intermediate 2		923	:5.00	<u>'</u>	1.23	1138	Suri	ace	8
Intermediate 3			-				-		
Production	Class A; Easy BLOK	2589	15.20		1 30	2266	- Cure	face	8
Tubing	Olado I I, Eddy DEGIT	2003	10.20		1.30 3366		Sui	Surface	
Plug back pro	nation penetrated Marca			Loggers T Plug back	to (ft) r/e	8		-	
Check all wire	eline logs run □ Yes 📱 No 🏽 [□ neutron □	density resistivity Sidew	□ deviat □ gamm	a ray		induction temperature gs collected	□sonic	
DESCRIBE T	THE CENTRALIZER Production string has two centralizer of	PLACEMENT	USED FO	R EACH CA	ASING S				
WAS WELL	COMPLETED AS S	HOT HOLE	∄Yes □	No DI	ETAILS	See attached	perfora di principula	ECEIV	ED
WAG ***	GO) (D)						AA A	V I	riu Gas
WAS WELL	COMPLETED OPE	NHOLE? □	Yes 🖪 No	DET.	AILS _		IVI A	Y 13 20	16
WERE TRAC	ERS USED Yes	■ No T	YPE OF TR	RACER(S) I	USED	E	WV De nvironme	partme	Dt of
		<u> </u>	 :				viime	ntal Pro	tection
									ייייייייי

API 4	₁₇₋ 051		Farm name Berger	Well number
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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	SEE	ATTACHED			
			1		1.
		- 1			
			<u></u>		
48					
1				<u> </u>	
		_			11
4					

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
		SEE	ATTACHED					
						_		
	S .							
		_						
	<u> </u>				1			
_		<u> </u>						
	4						į	
			7					
								0.
	11							er E
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- 1	0 1						HE(Elven
							Pilice of	CEIVED Oil and Gas
								"" and Gas
			2				MAY	9 2040
								3 2016
						·	VV Dena	}
Please	insert additio	nal pages as a	pplicable.			Envi	ronmenta	rtment of
								Oraction

WR-35 Rev. 8/23/13

API 47- 051	01702	Farm	name Berger			Well number 1H	
PRODUCING	FORMATION(<u>S)</u>	<u>DEPTHS</u>				
Marcellus (S2B)		6439	_ TVD _ 7	178	MD	
						_	
						-	
Please insert ad	lditional pages a	s applicable.					
GAS TEST	□ Build up □	Drawdown	■ Open Flow	0	IL TEST ■ Flo	w □ Pump	
SHUT-IN PRE	SSURE Surf	ace 1820	_psi Botto	m Hole 3900	psi D	URATION OF TEST 24 hrs	
OPEN FLOW	Gas	Oil	NGL			GAS MEASURED BY	
	218 mcf	pd <u>70 </u>	opd <u>n/a</u>	_ bpd	B bpd c	☐ Estimated ■ Orifice ☐ Pilot	
LITHOLOGY/	TOP	воттом	TOD	DOTTOM			
FORMATION	DEPTH IN FT	DEPTH IN FT	TOP DEPTH IN FT	BOTTOM DEPTH IN FT	DESCRIBE BOX	CV TVDE AND RECORD OWANTERWAND	
10111111011	NAME TVD	TVD	MD	MD		CK TYPE AND RECORD QUANTITYAND D (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)	
	0		0	1112	1112011201	7 (TRESTIVATER, DIGITE, OIL, GAS, 1125, LTC)	
Pittsburgh Coal	830	831	830	831		Solid Coal Seam	
Burkett	6296	6314	6680	6717		Grey shale	
Tully	6314	6355	6717	6806		Limestone	
S5	6355	6404	6806	6992		Black shale	
S <u>3</u>	6404	6428	6992	7156	Black shale		
Stafford	6428	6430	7156	7178	178 Limestone		
S2B	6430	6439	7178	7268		Black shale	
					<u> </u>		
·							
				,			
Please insert ad	lditional pages a	s applicable.			_1		
-	ctor SEE ATTAC		Cit.			54-4-	
Addiess		<u>.</u>	City			StateZip	
	any ALS Group						
Address 3352 1	28th Avenue		City	Holland		State MI Zip 49424	
C	SEE ATT	ACHED					
_	npany SEE ATT.		Ch			0	
Address						State Zip	
Stimulating Co.	mpany Schlum		ogy Corp			D.m.:	
Address 4600 J	Barry Court, Suite	200	City	Canonsburg		State PA Off Zip TEGE IVED	
Please insert ad	ditional pages a	s applicable.				State PA Office of Oil and Gas	
Completed by	Jackie M. Schel	ar			Telephone 72	24-564-3721 MAY	
Signature	In A Kap		Title Re	egulatory Comp	liance Team Lead	Date 5/10/2016	
Submittal of Hy	ydraulic Fracturi	ing Chemical I	Disclosure Infor	rmation A	attach copy of F	Date 5/10/2016 WV Department of RACE Scrison Principle 18 /23 / (20/28/2016)	
					0.0	Protection	
					X	_ 8/23/(40/28/2016	