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

API 47_ 087 _ 02765W	County ROANE	Dist	rict SMITHFIE	LD	
Quad LOONEYVILLE 7.5'	Pad Name McGraw				
Farm name McGraw, CH					
Operator (as registered with the OOG)	I.G. ENERGY LLC				
Address 5260 DuPONT ROAD		RSBURG	State WV	_{Zip} _26101	
Landing Point of Curve Non Bottom Hole Non	Attach an as-drilled pla rthing 4,284,822 M rthing	Easting Easting Easting	475, 700 M		
Elevation (ft) 1,085 GL			Type of Keport	□Interim AFinal	
Permit Type Deviated Horiz	zontal Horizontal 6	A	Depth Type	□ Deep ∃ Shallow	
Type of Operation □ Convert □ Deep	pen 🗆 Drill 🗆 Plug	Back Redrilling	Rework	□ Stimulate	
Well Type □ Brine Disposal □ CBM (□ Gas 🛭 Oil 🗆 Seconda	ry Recovery Solution	on Mining 🗆 Sto	orage Other	
Type of Completion	⊃ Mud			□ Other Brine	
Date permit issued6/05/15	Date drilling commence				
Date completion activities began		_			
Verbal plugging (Y/N) N Date	e permission granted	(Granted by		
Please note: Operator is required to subm	it a plugging application	within 5 days of verbal	permission to pl	lug	
Freshwater depth(s) ftNo	one Ope	n mine(s) (Y/N) depths	5	None	
Salt water depth(s) ft 198	71	l(s) encountered (Y/N)) depths	None VCD	
Coal depth(s) ft None	Cave	ern(s) encountered (Y/	N) depths	None and Gas	
Is coal being mined in area (Y/N)	N		1	SEP 0 8 2015 Reviewed by:	

Rev. 8/23/13									
API 47- 087	02765	02765 Farm name McGraw, CH Well number 2							
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		Basket Depth(s)		nent circulate (Y/N) de details below*
Conductor	1			1]	T	<u></u>	T	
Surface	8 1/4"	6 5/8"	1942'	Used	unk	nown		1	Existing
Coal			···						<u></u>
Intermediate 1									
Intermediate 2			·····						
Intermediate 3					<u> </u>				
Production	6 1/4"	4 1/2"	2107'	New	J	-55		 	Y
Tubing								†	
Packer type and d	epth set	Parmaco tension	packer converte	d to Formation	Packer S	hoe @ 2107	<u> </u>	 _	
Comment Details									
CEMENT DATA	Class/Type of Cement					Volume <u>(Ո ³)</u>	Cemer		WOC (hm)
Conductor	or cement	or sack:	- wt (p	<u>(10</u>	1979)	717_7	Top (M	<u>, , , , , , , , , , , , , , , , , , , </u>	(hrs)
Surface							<u> </u>		
Coal									
Intermediate I	 								
Intermediate 2	- <u></u> -							_	
Intermediate 3							+		
Production	Reg Neat	50	15		.18	59	1500' (est \	8
Tubing	1 leg i leai	30	- 13	<u>'</u>	.10	33	1300 (
Drillers TD (ft Deepest formal Plug back prod Kick off depth	tion penetrated cedure <u>NA</u> (it)	Big Injun	□ density	Loggers T Plug back			duction		
Well cored	_	neutron	□ resistivity nal Side	⁄ ≜ gamma avall	-		emperature	□sonic Yes □	
DESCRIBE TE	HE CENTRAL	IZER PLACEME	NT USED FO	OR EACH CA	SING ST	RING			
WAS WELL C	COMPLETED	AS SHOT HOLE	■ Yes □	No DE	TAILS _	original complet	ion (1911) - shot w	# 20 Qts	
WAS WELL C	COMPLETED	OPEN HOLE?	■ Yes □ N	lo DETA	ILS		Offic	REC o of (ciiVED Dil and Gas
WERE TRACE	ERS USED	Yes 🛮 No	TYPE OF T	RACER(S) U	SED				8 2015
							1		_

API 47- 087 - 02765

Farm name_McGraw, CH

_Well number_2

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)
			NONE					
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							100 mm c	
							NECE	VED
01		1				· Off	ice of Oil	VED and Gas

Please insert additional pages as applicable.

SEP 1 8 3.3

Environmental Protection

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

Date 8/17/15

Telephone 304-420-1107