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

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	PA	
	SCA.	
m.	NOV 10 2014 SOLOGICAL SURVEY	
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70	PGANGICA VIA	
	TOWN SUN	
	" WILLEY	

040 00450 1,000				N. W. A
	LN I			
Quad GRIFFITHSVILLE 7.5' Pad Name AUS	TIN GRIFFITH I	Field/Pool Name	RIFFITHSVILI	LE_
Farm name MCCLURE, ANDY J. & REBECCA	,	Well Number 104		
Operator (as registered with the OOG) H.G. ENERGY LI	_C			
Address 5260 DuPONT ROAD City PA	RKERSBURG	_ State WV	Zip _2610)1
Top hole Northing 4,231,210 M Landing Point of Curve Northing Northing Northing	Eastir Eastir	ng 416,126 M		
Elevation (ft) 1,026' GL Type of Well	New □ Existing	Type of Report	□Interim B Fir	nal
Permit Type Deviated Horizontal Horizontal	ntal 6A Vertical	Depth Type	□ Deep 🛔	Shallow
Type of Operation □ Convert □ Deepen ■ Drill □	□ Plug Back □ Redrill	ing Rework	□ Stimulate	
Well Type □ Brine Disposal □ CBM □ Gas □ Oil ■ Se	condary Recovery □ Sol	ution Mining Sto	orage Other	
Type of Completion ■ Single □ Multiple Fluids Production Drilled with □ Cable ■ Rotary Drilling Media Surface hole ■ Air □ Mud ■ Fresh Water ■ Brin Mud Type(s) and Additive(s) N/A	ater Intermediate ho			
Date permit issued5/31/2013 Date drilling com	menced7/15/14	Date drilling o	ceased7/1	8/14
Date completion activities began7/28/14	_ Date completion activi	ties ceased	7/29/14	
Verbal plugging (Y/N) N Date permission grante	d	Granted by		
Please note: Operator is required to submit a plugging applic	ation within 5 days of ver	bal permission to pl	lug	
Freshwater depth(s) ftN/A	Open mine(s) (Y/N) dep	oths	Ν	
Salt water depth(s) ft 1190', 1540'	Void(s) encountered (Y/		N	· · · · · · · · · · · · · · · · · · ·
Coal depth(s) ft 588'-594'	Cavern(s) encountered (N	
Is coal being mined in area (Y/N) N				
			Reviewed by	':

API 47- 043	03452	Farm r	name_MCCLUF	RE, ANDY	J. & REI	BECCA We	ell number 10)4	
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grad wt/f	le	Basket	Did ce	ement circulate (Y/ N
Conductor	12 1/4"	11 5/8"	30'	Used	WUI	LS	Depth(s)	* Provide details belo	
Surface	8 3/4"	7"	719'	New		LS	0.41		Sand In
Coal			110	IVEV	-	LS	84'		Y
Intermediate 1					-				
Intermediate 2					-				
Intermediate 3					-				
Production	6 1/4"	4 1/2"	2040.01						
Tubing	0 1/4	4 1/2	2612.2'	New		J-55			N
Packer type and de	epth set								
CEMENT DATA Conductor	Class/Type of Cement	Number of Sacks	~		ield ³/sks)	Volume (ft ²)	Ceme Top (M		WOC (hrs)
Surface	D N . /								
Coal	Reg Neat	175	15.6	1	.18	207	Surfac	ce	8
Intermediate 1									
Intermediate 2									
Intermediate 3									
Production	50.50 D								
Tubing	50:50 Pozmix	150	14.2	1.	27	191	818'		8
Drillers TD (ft) Deepest formati Plug back proce	on penetrated B	erea		Loggers TE Plug back to	` /				
Kick off depth (ft) N/A					20			
Check all wireling	ne logs run	acaliper neutron	density resistivity	deviated gamma			duction mperature	□sonic	
Well cored 🗆 Y	Yes 🛮 No	Convention	al Sidewa	11	We	ere cuttings o	collected N	es □	No
DESCRIBE THI	E CENTRALIZI	ER PLACEMEN	T USED FOR	EACHCAS	INIC OT	DDIC			
i Centralizers every 84 from t	bottom on 4 1/2", Centralizer	placed mid string on 7"	TOSED TOK	EACH CAS	ти С 21	KING			
VAS WELL CO	MPLETED AS	SHOT HOLE	□ Yes ■ No	o DET.	AILS _				
VAS WELL CO	MPLETED OPI	EN HOLE?	Yes 🖪 No	DETAII	LS				
ERE TRACER	S USED □ Ye	es 🖺 No	TYPE OF TRA						,

WR-	35
Rev.	8/23/13

API 47-043 _ 03452

Farm name_MCCLURE, ANDY J. & REBECCA_Well number_104

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	7/29/14	2490'	2503'	78	Berea
	112				Boloa
				-	
			<u> </u>		

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)
1	7/29/14	5.3	968	1808	773		44	12 bbls HCL

Please insert additional pages as applicable.

API 47- 043	_ 03452	Farm	name_MCCLU	RE, ANDY J	. & REBEC	CA _{Well}	numbe	_{r_} 104	·
PRODUCING	FORMATION	S)	DEPTHS						
Berea	•					8 10000			
Delea			2490'-2503'	TVD		MD	i.		
-									
				and region of the second					
Please insert ad	lditional pages a	s applicable.							
GAS TEST	□ Build up □	Drawdown	□ Open Flow	Ol	L TEST	Flow	⊐ Pump		
SHUT-IN PRE	SSURE Surf	ace	psi Botto	om Hole	psi	DURA	TION C	OF TEST	hrs
OPEN FLOW	Gas	Oil	NGL	W	7ater	GASI	MEASI	JRED BY	
		pd	bpd						□ Pilot
	3								
LITHOLOGY/	TOP	BOTTOM	TOP	BOTTOM					
FORMATION	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DESCRIBE	ROCK TY	PE AND	RECORD QUAN	TITYAND
	NAME TVD	TVD	MD	MD	TYPE OF FI	LUID (FRE	SHWAT	ER, BRINE, OIL,	GAS, H ₂ S, ETC)
Sand/Shale	0	588	0						7445
Pittsburgh Coal	588	594						***************************************	
Sand/Shale	594	1764							
Big Lime	1764	1972							
Big Injun	1972	2073				8165			
Shale Coffee Shale	2073 2467	2467							
Berea	2488	2488 2504							
Shale	2504	2670							
TD	2670	2010							
	2010	***			-				
Please insert ad	ditional pages a	s applicable.			•				
Drilling Contrac	ctor Decker Drill	ing							
Address 11565 S			City	Vincent		State	ОН	Zip_45784	
						50			201 123
Logging Compa		International					7-M-001092-1-18-		
Address 777 Nor	rth River Avenue		City	Weston		State	WV	Zip <u>26452</u>	
Cementing Con	nany Universal	Services							
Address 5252 Rt			City	Allen		State	KY	Zip 41601	
			•	I.		51410		Zip	
Stimulating Cor		ers Service Co	rp.						
Address 109 South Graham Street City Zanesville State OH Zip 43701 Please insert additional pages as applicable.									
Please insert add	ditional pages as	applicable.							
Completed by	Roger Heldman				Telephone	304-420-	-1107		
Signature	Le Me	de	Title Or	perations Manag	er		Date 10	0/15/14	
Submittal of Hy	draulic Fracturi	ng Chemical I	Disclosure Infor	mation At	ttach copy of	f FRACF	OCUS	Registry	

Prepared for: HG Energy



Prepared by: **Producers Service Corp**

Dustin Hendershot				Chris Bryan	
304 771 5432	PRODUCERS	109 S. Graham St. Zanesville, OH 43702			
	SERVICE CORP.				
	spiral applies to post a			(5)	43702
INVOICE #: 16762				740-454-6253	
WELL NAME: A.Griffith #104					
STATE & COUNTY: Lincoln,WV					
TOWNSHIP/FIELD: Griffthsville					
DATE of SERVICE: 7/29/2014					
CUSTOMER PO#					
Description	Notes	Amount	Units	Unit Cost	Total Cost
ACID PUMP CHARGE 1000-2000 PSI		1	EA	\$	
MILEAGE CHARGE PER UNIT ONE WAY	N/C 3rd Well Same Location	0		\$	
IC ACID 15%		500	-		
ACID DELIVERY		2		\$	
PRO HIB II		0.5	300000000000000000000000000000000000000	\$	
PRO CLA FIRM LP PRO NE-1		0.5		\$	
PRO PEN		0.5		\$	
DATA VAN		0.5	GAL STAGE	\$	
DATA VAIV			STAGE	Ψ	
					
		(4)			
				TOT	

Customer Approval: _____