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

API	_{47 -} 087	_ 04753	County ROANE		District SMI	THFIELD		
	LOONEYVILLE	∃ 7.5'	Pad Name KINK		Field/Pool Na		'ER	
	ame MAY, TIM		-		Well Number			
Operat	or (as registered	with the OOG	H.G. ENERGY LLC	0			2	
Addres	s 5260 DuPO!	NT ROAD	City PAF	RKERSBURG	State W	V	Zip 26	6101
As Dri	Landing Point	of Curve	Attach an as-drille Northing 4,285,442 M Northing 4,285,245 M		and deviation su Easting 475,633 M Easting 475,464 M			
Elevati	on (ft) 1,110'	GL	Type of Well	□New ■ Existing	Type of I	Report □In	terim 🎚	Final
Permit	Type 💄 Dev	iated 🗆 H	orizontal Horizont	tal 6A 🛮 Vertica	l Depth T	ype 🗆	Deep	Shallow
Туре о	f Operation □ C	onvert 🗆 I	Deepen □ Drill □	Plug Back 🗆 R	edrilling = Re	work 🚪 S	timulate	
Well T	ype □ Brine Dis	posal □ CBN	⁄I □ Gas □ Oil 📕 Sec	ondary Recovery	Solution Mining	g 🗆 Storage	□ Oth	er
Drilled		□ Rotary	ltiple Fluids Produc	ced □ Brine □G	as □ NGL □		ther	
•	tion hole		□ Fresh Water □ Brine		ite flore - Aii		RECEIVE s of Oil a	-6.7
	ype(s) and Addit					140	V 06	2020
						Envero	Depart and tell	aned Potestion
	ermit issued		Date drilling comm		Dutc u	rilling cease 9/1		N/A
	ompletion activiti	N. 1		Date completion				
v erbai	plugging (Y/N)		Date permission granted	s	Granted by	y		
Please	note: Operator is	s required to su	ubmit a plugging applica	ation within 5 days	of verbal permissi	on to plug		
Freshw	ater depth(s) ft		None	Open mine(s) (Y/I	N) depths	N	one	
	ter depth(s) ft		730'	Void(s) encountered	ed (Y/N) depths		None	
Coal de	epth(s) ft	No	one	Cavern(s) encount	ered (Y/N) depths	S	None)
Is coal	being mined in a	rea (Y/N)	N					

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Rev. 8/23/13								1.	age 01
API 47- 087	04753	Farm na	ame_MAY, TI	MOTHY D.		Well 1	number_109	9	
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		Basket epth(s)		circulate (Y/ N)
Conductor	12 1/4"	11 5/8"	30'	Used	L.	S		E	xisting
Surface	8 3/4"	7"	508'	New	L	S	64'	E	xisting
Coal									
Intermediate 1									
Intermediate 2									
Intermediate 3									
Production	6 1/4"	4 1/2"	2583.3'	New	J-	55		E:	kisting
Tubing		2 3/8"	2297'	New	J-	55			
Packer type and de	epth set								
CEMENT DATA Conductor	Class/Type of Cement	Numbe of Sack		•	/ield ³ /sks)	Volume (ft ³)	Ceme Top (M		WOC (hrs)
Surface	Reg Neat	130	15.0	6 1	.18	153.4	Surfa	ce	Existing
Coal									
Intermediate 1									
Intermediate 2									
Intermediate 3									
Production	50:50 Pozmi	x 115/12	5 13.2/1	4.2 1.6	4/1.27	189/186	Surfa	ce	Existing
Tubing									
Drillers TD (ft Deepest formal Plug back prod	tion penetrated	Big Injun	''	Loggers T				Office	RECEIVED of Cit and the
Kick off depth	(ft) 600'							MU	/ 0 6 2020
Check all wire		□ caliper □ neutron	□ density □ resistivity		ed/directio 1 ray		luction nperature	Environa Sonic	Peparimen or nuntel las
Well cored	Yes 🐧 No	Convention	onal Side	wall	We	re cuttings c	collected \square	Yes N	0
		ZER PLACEME		OR EACH CA	ASING ST	RING			
WAS WELL C	OMPLETED A	AS SHOT HOLE	□ Yes ■	No DE	ETAILS				
WAS WELL C	OMPLETED C	OPEN HOLE?	□ Yes 💻 N	lo DETA	AILS				
WEDE TO ACI	EDCHICED =	Ves No	TVDE OF T	DACED(S) I	IGED				



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API 47- 087 - 04753

Farm name_MAY, TIMOTHY D.

Well number 109

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	7/23/18	2398'	2408'	60	Big Injun
	0,.0				= i.gqe.r.
-					

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	7/27/18	2.7	1393	NA	610	0	12	2000 gals HCL
1	9/17/20	3	1397	1652	654		9	2500 gals HCL
								PEOGNACO
							0	RECEIVED ffice of Oil and Cas
								HOV 0 6 2020
							Envi	W District Control
								Office to the Spr.

Please insert additional pages as applicable.

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Farm name MAY, TIMOTHY D.

_Well number_109

PRODUCING Big Injun	FORMATION(<u>DEPTHS</u> 2148'- 2165' TVD 23		2383'- 2425'	:383'- 2425' MD				
Please insert ad	ditional pages a	s applicable.								
GAS TEST	□ Build up □	Drawdown	□ Open Flow	1	OIL TEST 🗆 🛚	Flow [⊐ Pump	ı		
SHUT-IN PRE	SSURE Surf	ace	_psi Botto	om Hole	psi	DURA'	TION (OF TES	SThrs	
OPEN FLOW	Gas mcf	Oil pd	NGL bpd		Water bpd		MEASU mated			
LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN I	T DESCRIBE				D QUANTITYAND INE, OIL, GAS, H ₂ S, ETC)	
Sand/Shale	0	1665	0	1724						
Sand	1665	1671	1724	1730						
Shale	1671	1677	1730	1738						
Sand	1677	1790	1738	1878						
Shale	1790	1809	1878	1904						
Sand	1809	1972	1904	2139						
Little Lime	1972	1987	2139	2162						
Pencil Cave	1987	1998	2162	2176						
Big Lime	1998	2119	2176	2356						
Keener	2119	2148	2356	2383						
Big Injun	2148	2165	2383	2425	D	rilled direc	tional S	41° W a	a distance of 771'	
Shale	2165	2312	2425	2630						
TD	2312		2630							
	ditional pages a ctor Decker Drill State Route 676		City	Vincent		State	ОН	Zip	Office of Oil and D	
Logging Compa Address 777 No	ny Weatherford	I International	City	Weston		_ State	WV	Zip	NOV 0 6 2020 26452 WV Designation to Environmental Protect	
Cementing Con Address Hall Rd	npany Universal	Services	City	Buckhannor	n	State	WV		26201	
Stimulating Con Address 109 Son	mpany Produce oth Graham Street	ers Service Cor	p. City	Zanesville	:	State	ОН	Zip	43701	
Please insert ad	ditional pages as	s applicable.								
Completed by	Roger Heldman	(a)			Telephone	304-420	-1107			
Signature	Dr. Ch	the	Title O	perations Mar			Date 1	1/3/20		
E Company	dravlia Franturi	un Chamin LT								

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

epared for:	1	TOT .			Prepared by:	
G Energy LLC					Producers Service Corp	
60 Dupont Rd	41				Daniel L Graham	
rkersburg WV 26101		PRODUCERS			109 S. Graham St.	
stin hendershot		SERVICE CORP.			Zanesville, OH 43702	
		OBITSION OUTSI			740-454-6253	-
FIELD TICKET:	23828	i			740-434-0233	
WELL NAME:	S.B.Kinkead #109					
COUNTY/STATE:	Roane/WV		Post a second control de la co	0 11 1		
OWNSHIP/FIELD:	Clover					
ATE of SERVICE:	9/17/2020					
CUSTOMER PO#:						
scription		Notes	Amount	Units	Unit Cost	Total Cost
D PUMP CHARGE 1000)-2000 PSI		1	EA		
EAGE CHARGE PER U	NIT ONE WAY		200	MI		
CID 15%						
ALID IS			2500	GAL		
HIB II			2500 3	GAL		
O HIB II O CLA FIRM LP			3 2.5	GAL GAL		
O HIB II O CLA FIRM LP O NE-1			2.5 2.5	GAL GAL		
O HIB II O CLA FIRM LP O NE-1 O PEN			2.5 2.5 2.5 2.5	GAL GAL GAL		
O HIB II O CLA FIRM LP O NE-1 O PEN O SOL			2.5 2.5 2.5 2.5 2.5	GAL GAL GAL GAL		
O HIB II O CLA FIRM LP O NE-1 O PEN O SOL D DELIVERY			3 2.5 2.5 2.5 25 25	GAL GAL GAL GAL HR		
O HIB II O CLA FIRM LP O NE-1 O PEN O SOL			3 2.5 2.5 2.5 25 25	GAL GAL GAL GAL		
O HIB II O CLA FIRM LP O NE-1 O PEN O SOL D DELIVERY			3 2.5 2.5 2.5 25 25	GAL GAL GAL GAL HR		
O HIB II O CLA FIRM LP O NE-1 O PEN O SOL D DELIVERY			3 2.5 2.5 2.5 25 25	GAL GAL GAL GAL HR		
O HIB II O CLA FIRM LP O NE-1 O PEN O SOL D DELIVERY			3 2.5 2.5 2.5 25 25	GAL GAL GAL GAL HR		
O HIB II O CLA FIRM LP O NE-1 O PEN O SOL D DELIVERY			3 2.5 2.5 2.5 25 25	GAL GAL GAL GAL HR		
O HIB II O CLA FIRM LP O NE-1 O PEN O SOL D DELIVERY			3 2.5 2.5 2.5 25 25	GAL GAL GAL GAL HR		
O HIB II O CLA FIRM LP O NE-1 O PEN O SOL D DELIVERY			3 2.5 2.5 2.5 25 25	GAL GAL GAL GAL HR		
O HIB II O CLA FIRM LP O NE-1 O PEN O SOL D DELIVERY			3 2.5 2.5 2.5 25 25	GAL GAL GAL GAL HR		
O HIB II O CLA FIRM LP O NE-1 O PEN O SOL D DELIVERY			3 2.5 2.5 2.5 25 25	GAL GAL GAL GAL HR		
O HIB II O CLA FIRM LP O NE-1 O PEN O SOL D DELIVERY			3 2.5 2.5 2.5 25 25	GAL GAL GAL GAL HR		

tomer Approval:

Office of Oil and Gas

NOV 0 G 2020

Environmental Exception

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Producers Service Corporation 109 South Graham Street Zanesville, OH 43701 (740) 454-6253 www.producersservicecorp.com

Acid **HG Energy**

Company Rep: Dustin

Treater: Daniel L Graham

9/17/2020

Well: S.B Kinkead Roane County, WV

Ca	ISi	n	g

OD: 4.5" ID: N/A

Weight: 10.5 lb.

TD: 2630 ft.

Tubing

Size: N/A

Open Hole

Size: N/A

To: N/A

From: N/A

Depth: N/A

Packers

Upper Make: N/A

Upper Depth: N/A

Lower Make: N/A Lower Depth: N/A

Pressures

PSI Test: N/A

Breakdown: 989 psi

Max: 1652 psi

Average: 1397 psi

Displacement: 1440 psi

To: N/A

OD: N/A

Weight: N/A

From: N/A

#VALUE! 2500 Gal

Total: 69 BBL

Flush: 9 BBL

Perforations

of Shots: N/A

Top Perf: 2398 ft.

Bottom Perf: 2408 ft.

Rates

Average: 3 bbl/min

Max: 3.5 bbl/min

Volumes:

Pad N/A

Treatment: 60 BBL

Notes:

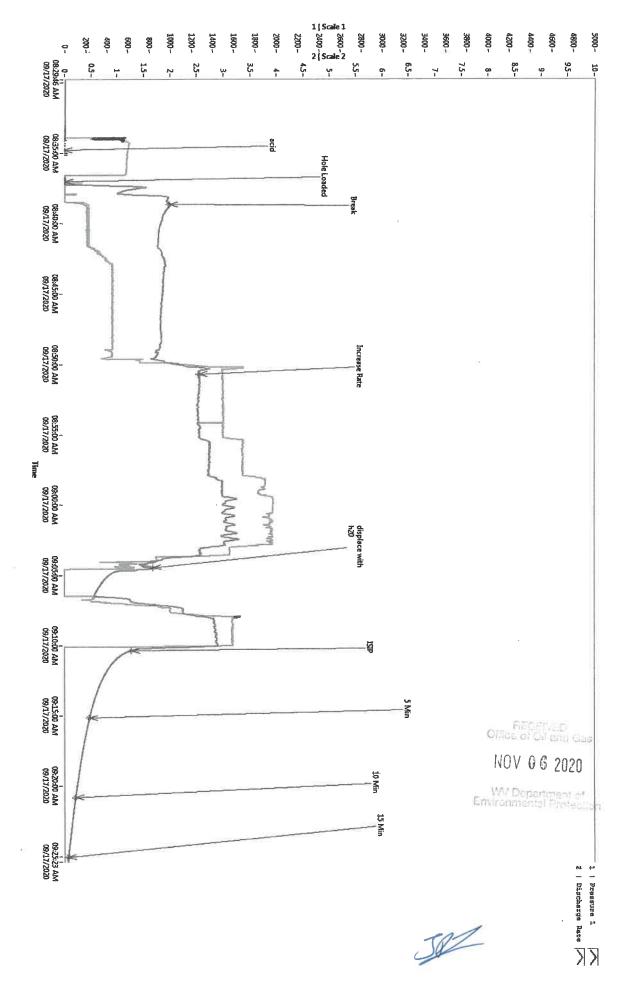
Invoice #:

23828

NOV 06









9/17/2020 9:25:03 AM	9/17/2020 9:20:46 AM	9/17/2020 9:15:08 AM	9/17/2020 9:10:19 AM	9/17/2020 9:04:26 AM	9/17/2020 8:50:42 AM	9/17/2020 8:38:36 AM	9/17/2020 8:36:58 AM	9/17/2020 8:34:45 AM	9/17/2020 8:34:03 AM	Timestamp
15 Min	10 Min	5 Min	ISIP	displace with h20	Increase Rate	Break	Hole Loaded	açid	open well	
35.72	102.56	236.02	643.93	848.77	1278.18	998.92	2.78	-11.66	-11.81	Pressure 1 Pressure 1 Discharge Rate
0.00	0.00	0.00	0.00	1.23	2.98	0.42	0.00	1.20	1.13	Discharge Rate 24109
377.12	377.12	377.12	377.12	2502.78	597.70	134.53	131.69	42.30	6,95	Stage Total (gal)
2886.53	2886.53	2886.53	2886.53	2502.78	597.70	134.53	131.69	42.30	6.95	Grand Total (gal)
9.00	9.00	9.00	9.00	59.59	14.23	3.20	3.14	1.01	0.17	Stage Total (bbl)
68.73	68.73	68.73	68.73	59.59	14.23	3.20	3.14	1.01	0.17	1107 0 8 2020
									E	Whosen



