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

API <u>47</u> - <u>087 - 04767</u> Count	District SMITHFIELD			
Quad LOONEYVILLE 7.5' Pad N	Jame LONG, JACKSON	Field/Pool Name CL	OVER	
Farm name KING, WILLIE		Well Number 106		
Operator (as registered with the OOG) H.G. EN	IERGY LLC			
Address 5260 DuPONT ROAD	City PARKERSBURG	State WV	_{Zip} _26101	
As Drilled location NAD 83/UTM Attack Top hole Northing 4 Landing Point of Curve Northing Bottom Hole Northing 4	E	and deviation survey asting 476,138 M asting 476,167 M		
Elevation (ft) 1,038' GL Ty	pe of Well New Dexisting	Type of Report	oInterim B Final	
Permit Type Deviated Horizontal	□ Horizontal 6A □ Vertical	Depth Type 0	Deep Shallow	
Type of Operation Convert Deepen	Drill Delug Back Red	Irilling 🗆 Rework t	⊐ Stimulate	
Well Type □ Brine Disposal □ CBM □ Gas a	Oil Secondary Recovery	Solution Mining Stora	nge 🗆 Other	
Type of Completion Single Multiple Drilled with Cable Rotary Drilling Media Surface hole Air Mud Production hole Air Mud Fresh Wat Mud Type(s) and Additive(s)		s □NGL ■Oil □	OtherBrine	
N/A				
Date permit issued3/31/15 Date d	rilling commenced6/20/15	Date drilling cea	ased6/25/15	
Date completion activities began 7/7/1	5 Date completion as	tivities ceased Rece	PARANTA TARRANTA	
Verbal plugging (Y/N) N Date permis	sion granted	Gran@iffice Of	Oil & Gas	
:		AUG O	3 2015	
Please note: Operator is required to submit a plug	ging application within 5 days of	verbal permission to plug	g	
Freshwater depth(s) ft None	Open mine(s) (Y/N)	depths	None	
Salt water depth(s) ft 1750'	Void(s) encountered	•	None	
Coal depth(s) ft None		ed (Y/N) depths	None	
Is coal being mined in area (Y/N)	N			

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API 47- 087 - 04767 Fara	rm name_KING, WILLIE	_Well number_106
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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	7/7/15	2350'	2360'	40	Big Injun
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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	7/9/15	5	2278	2717	1502	2,500	148	,
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Please insert additional pages as applicable.

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API 47- 087	04767	Farm	_{name} KING,	WILLIE	Well number_106			
PRODUCING	FORMATION	<u>(S)</u>	<u>DEPTHS</u>					
Big Injun			2068'- 2093'	TVD 2	2332'- 2368' _{MD}			
· · · · · · · · · · · · · · · · · · ·	<u> </u>							
Please insert ac	dditional pages a	as applicable.		-				
GAS TEST	□ Build up C	Drawdown	□ Open Flow	0	DIL TEST - Flow - Pump			
SHUT-IN PRE	SSURE Surf	face	_psi Botte	om Hole	psi DURATION OF TESThrs			
OPEN FLOW		Oil						
0.2.12011				bod	Water GAS MEASURED BY bpd □ Estimated □ Orifice □ Pilot			
		• ——						
LITHOLOGY/	TOP	ВОТТОМ	ТОР	воттом				
FORMATION	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DESCRIBE ROCK TYPE AND RECORD QUANTITYAND			
	NAME TVD	TVD	MD	MD	TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H₂S, ETC)			
Sand/Shale	0	1400	0	1426				
Sand	1400	1420	1426	1450				
Shale Sand	1420	1592	1450	1652				
Shale	1592 1742	1742	1652	1848				
Sand	1742	1748	1848	1858				
Shale	1762	1762 1798	1858 1878	1878 1930				
Sand	1798	1948	1930	2152				
Big Lime	1948	2040	2152	2292				
Keener	2040	2068	2292	2332				
Big Injun	2068	2093	2332	2368	Drilled directional N 10.7° E a distance of 776'			
Shale	2093	2233	2368	2555				
TD	2233		2555					
Please insert add	ditional pages as	applicable.						
Drilling Contract	tor Decker Drilli	na						
Address 11565 S			City	Vincent	State OH Zip 45784			
Logging Compa		International						
Address 777 Nor		 ,	City	Weston	State WV Zip 26452			
Cementing Com	Cementing Company Universal Services							
Address Hall Rd			City	Buckhannon	State WV Zip 26201 Received			
Stimulating Con	npany Produce	rs Service Corp) .		Office of Oil & Gas			
Address 109 Sou	th Graham Street		City	Zanesville	State OH Office of Oil & Gas			
Please insert add	litional pages as	applicable.			AUG 0 3 2015			
Completed by	Regen Heldman	1_/			Telephone 304-420-1107			

Title Operations Manager

Signature

Date 7/28/15

87.04767

Prepared for:	Marine Control			Prepared by:		
H G Energy				Producers Ser	vice Corn	
-				Daniel L Grah	•	
Dustin Hendershot						
	PASINITES:			109 S. Graham St.		
304-481-7342 	abrige Robr.			Zanesville, OH	[43702	
				740-454-6253		
INVOICE #: 18544					,	
WELL NAME: J Long #106						
COUNTY/STATE: Roane/WV						
TOWNSHIP/FIELD: Clover Field						
DATE of SERVICE: 7/9/2015						
CUSTOMER PO#:						
Description	Notes	Amount	Units	Unit Cost	Total Cost	
	10003	Allouis	Units	Unit Cost	Total Cost	
FLUID PUMP CHARGE 0-3000 PSI MIN CHARGE 4 HRS BLENDER CHARGE 0-10 BPM		1				
MILEAGE CHARGE PER UNIT ONE WAY	2 Units @4509/iles	1 1		<u> </u>		
IC ACID 15%	2 Units @150Miles	250	Mi GAL	į		
PRO HIB II		0.5		1		
ACID DELIVERY		2		t		
PRO CLA LOK (KCL SUBSTITUTE)		15		†		
PRO NE-21		5		I		
PRO GEL 4 BUFFER I		150				
BUFFER II		50		<u> </u>		
BIO CLEAR 750		50	LB LB	}		
AP BREAKER		15		_		
BXL-A		10		-		
BXL-10C		10	GAL			
SAND 20/40 OTTAWA SAND DELIVERY / TON MILES		25		_		
DATA VAN		100		_		
			STAGE	_		
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ustomer Approval:	<i>:</i>			•		

Received
Office of Oil & Gas
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