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

API 47- 087	087 _ 04768			District SMITHFIELD			
Quad LOONEYVILLE 7.5' Pad Name SMITH, G.W.							
Farm name WYROST	OK, CHARL		Well Number 123				
Operator (as registered	with the OOG	H.G. ENERGY LLC					
Address 5260 DuPO!	NT ROAD	City PAR	RKERSBURG	State WV	<sub>Zip</sub> <u>26101</u>		
Landing Point	op hole	Attach an as-drilled Northing 4,284,248 M Northing Northing	East	ing <u>475,487 M</u> ing			
Elevation (ft) 1,178'	GL	Type of Well	New □ Existing	Type of Report	□Interim ■Final		
Permit Type	iated 🗆 H	lorizontal 🗆 Horizont	al 6A	Depth Type	□ Deep ■ Shallow		
Type of Operation C	onvert 🗆 I	Deepen  Drill  □	Plug Back 🗆 Redri	lling   Rework	□ Stimulate		
Well Type □ Brine Dis	posal 🗆 CBM	⁄⁄ □ Gas □ Oil ■ Seco	ondary Recovery 🗆 So	lution Mining 🗆 St	orage 🗆 Other		
Type of Completion ■ Drilled with □ Cable	_	iltiple Fluids Produc	eed □ Brine □Gas	□ NGL	□ Other		
Drilling Media Surface Production hole Air Mud Type(s) and Addit N/A	n Mud	r □ Mud BFresh Wate □ Fresh Water B Brine		ole BAir 🗆 Mud	■ Fresh Water □ Brine		
Date permit issued	3/31/15	Date drilling comm	enced 7/23/15	Date drilling o	7/27/15		
Date completion activiti		0/4/45	Date completion activ				
Verbal plugging (Y/N)	N	Date permission granted					
Please note: Operator is	required to s	ubmit a plugging applica	tion within 5 days of vo	erbal permission to p	lug		
Freshwater depth(s) ft		None	Open mine(s) (Y/N) de	epths	None		
Salt water depth(s) ft		Void(s) encountered (	Y/N) depths	None			
Coal depth(s) ft	No	one	Cavern(s) encountered	AXAINSenths	None		
Is coal being mined in a	rea (Y/N)		Office	of Oil & Gas	Reviewed by:		
			OC.	T 08 2015	TE		

Page 2 of 4 WR-35 Rev. 8/23/13 API 47-087 Farm name WYROSTOK, CHARLES A. JR. Well number 123 04768 Casing CASING Hole Grade New or Basket Did cement circulate (Y/N) **STRINGS** Size Size Depth Used wt/ft Depth(s) \* Provide details below\* Conductor 12 1/4" 11 5/8" 30' Used LS Sand In Surface 8 3/4" 7" 550' New LS 64' Υ Coal Intermediate 1 Intermediate 2 Intermediate 3 Production 6 1/4" 4 1/2" 2362.6' New J-55 Υ Tubing Packer type and depth set Comment Details Circulated Est. 50 sks to surface on 7" surface cement job. Circulated Est. 35 sks to surface on 4 1/2" cement job. CEMENT Class/Type Number Slurry Yield Volume woc Cement DATA of Cement (ft.<sup>1</sup>) of Sacks wt (ppg) (ft 3/sks) Top (MD) (hrs) Conductor Surface **Reg Neat** 130 15.6 1.18 154 Surface 8 Coal Intermediate 1 Intermediate 2 Intermediate 3 Production 50:50 Pozmix 85/125 13.2/14.2 1.64/1.27 139/186 20' 8 Tubing Drillers TD (ft) 2390° Loggers TD (ft) 2387 Deepest formation penetrated Big Injun Plug back to (ft) N/A Plug back procedure NA Kick off depth (ft) Check all wireline logs run acaliper = ■ density ■ deviated/directional **■** induction **■** neutron ■ resistivity A gamma ray **■** temperature □sonic Well cored □ Yes ■ No Conventional Sidewall Were cuttings collected ■ Yes □ No DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING 6 Centralizors every E8 from bottom on 4 1/2\*, Centralizer placed mid string on 7\* Received WAS WELL COMPLETED AS SHOT HOLE DETAILS \_\_\_\_ □ Yes 💆 No Office of Oil & Gas WAS WELL COMPLETED OPEN HOLE? □ Yes 🖪 No DETAILS OCT 0 8 2015

TYPE OF TRACER(S) USED \_

WERE TRACERS USED PYes A No.

API 47- 087 - 04768 Farm name WYROSTOK, CHARLES A. JR. Well number 123

## PERFORATION RECORD

ation(s) 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	10/1/15	5	405	1160	505	2,500	145	,
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Please insert additional pages as applicable.

WR-35 Rev. 8/23/13										Page <u>4</u> of <u>4</u>
API 47- 087	_ 04768	Fa	rm name_WYRO	STOK, CH	ARLES A. JR	Well i	number_	123		
PRODUCING	EODMATIO	N/C)	DEPTHS							
	FORMATIO	14(2)								
Big Injun			2176'- 2196'	_ TVD		MD				
						10				
V. <del></del>				1						
Please insert ac	lditional page	es as applicable	le.							
GAS TEST	□ Build up	□ Drawdow	n 🗆 Open Flow	(	OIL TEST 🗆 I	Flow [	2 Pump			
SHUT-IN PRE	SSURE S	urface	psi Bott	om Hole	psi	DURA	TION O	F TES	Т	hrs
OPEN FLOW	Gas n		NGL bpd	_ bpd _	Water bpd	GAS N				□ Pilot
	50504050		00007E-901-00							
LITHOLOGY/	TOP	BOTTO		BOTTOM			nnm.	recon		THE LAND
FORMATION	DEPTH IN F				T DESCRIBE I					
Sand/Shale	NAME TVE	1608	MD 0	MD	TYPE OF FL	UID (FRE	SHWAII	ek, BKI	NE, OIL,	GAS, H <sub>2</sub> S, ETC)
Sand	1608	1628	0	-	-					
Shale	1628	1698								
Sand	1698	1850								
Shale	1850	1860								
Sand	1860	1990								
Little Lime	1990	1990								
Pencil Cave	2020	2038								
Big Lime	2038	2146								
Keener	2146	2176								
Big Injun	2176	2196								
Shale	2196	2390								
TD	2390									
Please insert ad	lditional page	s as applicable	e.							
Drilling Contra	ctor Decker [	Drilling								
Address 11565	State Route 676	6	City	Vincent		_ State	ОН	_ Zip	45784	
			The second second			5		- 77		
Logging Comp	any Weather	ford Internation		Vous			OH	99.10	44502	
Address 11000	reпormance Pl		City	Youngstown		_ State	ОН	_ Zip	44502	
Cementing Cor	npany Univer	rsal Services								
Address 14 Sev	ver Plant Rd		City	Buckhannor	1	State	WV	Zip	26201	
								- 4		
Stimulating Co	mpen,	ducers Service					011		10704	
Address 109 So	Account of the same	The state of the s	City	Zanesville		_ State	ОН	_ Zip	43701	Roochunal
Please insert ad	ditional page	s as applicabl	e.						_	Received
Completed by	Roger Heldm	nan			Telephone	304-420	-1107		U	ffice of Oil & G
Signature	/Im	Klord	Title C	Operations Man	ager		Date 10	/1/15		OCT 08 2015
Digitatal's	Por	17.0	This _							_ 501 0 0 2013
Submittal of Hy	draulic Fract	turing Chemic	cal Disclosure Info	rmation	Attach copy of	FRACE	OCUS I	Regist	y	

87-04768

epared for:

**G** Energy

ıstin Hendershot

4-481-7342



Prepared by:

Producers Service Corp

Daniel L Graham

109 S. Graham St.

Zanesville, OH 43702

740-454-6253

INVOICE #: 19409

WELL NAME: G W Smith #123

COUNTY/STATE: Roane/WV

TOWNSHIP/FIELD: Clover Field

DATE of SERVICE: 10/1/2015

CUSTOMER PO#:

escription

Notes

Amount Units Unit Cost Total Cost

escription	Notes	Amount	Units	Unit Cost	Total Cost
		1	EA		
_UID PUMP CHARGE 0-3000 PSI MIN CHARGE 4 HRS		1	EA		
ENDER CHARGE 0-10 BPM			MI		
ILEAGE CHARGE PER UNIT ONE WAY	2 Units @150Miles	250	GAL		
: ACID 15%		0.5	GAL		
RO HIB II		2	HR		
CID DELIVERY		15	GAL		
RO CLA LOK (KCL SUBSTITUTE)		5	GAL		
RO NE-21		150	LB	2	
RO GEL 4		50	LB		
UFFER I		50	LB		
UFFER II		1	LB		
IO CLEAR 750		15	LB		
P BREAKER		10	GAL		
IXL-A		10	GAL		
IXL-10C		25			
AND 20/40 OTTAWA		100			
SAND DELIVERY / TON MILES			STAGE		
)ATA VAN			UIAGE		54 L.T
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Customer Approval:	_		

Office of Oil & Gas OCT 0 8 2015