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

API <u>47</u> - 087	_ 04780	County ROANE		District SMITHFIE	SMITHFIELD			
Quad LOONEYVILL	E 7.5'			Field/Pool Name C				
Farm name WYROS1				Well Number 124				
Operator (as registered	with the OOG)	H.G. ENERGY LLC						
Address 5260 DuPC	NT ROAD	City PAR	RKERSBURG	State WV	Zip 26101			
Landing Point	of Curve N	Attach an as-drilled forthing 4,284,253 M forthing 4,284,323 M		and deviation survey Easting 475,489 M Easting 475,780 M				
Elevation (ft) 1,178'	GL	Type of Well	New Existing	Type of Report	□Interim ≜ Final			
Permit Type 📱 Dev	viated □ Ho	rizontal 🗆 Horizont	al 6A □ Vertica	I Depth Type	□ Deep ■ Shallow			
Type of Operation □ 0	Convert 🗆 De	epen 🗆 Drill 🗆	Plug Back □ Re	drilling E Rework	■ Stimulate			
Well Type □ Brine Di	sposal □ CBM	□ Gas □ Oil ■ Seco	ondary Recovery	Solution Mining Sto	orage 🗆 Other			
Type of Completion ■ Drilled with □ Cable	□ Rotary	-						
Drilling Media Surface Production hole □ Air		☐ Mud ☐ Fresh Water ☐ Brine	er Intermedia	te hole	☐ Fresh Water ☐ Brine			
Mud Type(s) and Addi N/A		Presii watei 🔟 Dime		NOV 06 2				
				Environment	ai d			
Date permit issued Date completion activit Verbal plugging (Y/N)	ies began		Date completion a	Date drilling of the control of the	10/1/20			
Please note: Operator i	s required to sub	mit a plugging applica	tion within 5 days o	of verbal permission to p	lug			
Freshwater depth(s) ft	1	lone	Open mine(s) (Y/N	() depths	None			
Salt water depth(s) ft	4.0	40'	-	d (Y/N) depths	None			
Coal depth(s) ft	Nor	ne	Cavern(s) encounte		None			
Is coal being mined in a	area (Y/N)	N						

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API 47- 087	04780	Farm n	_{ame} WYRO	STOK, CH	ARLES /	A. JR. _{Wel}	l number_12	4		
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		Basket Depth(s)		ent circulate le details be	
Conductor	12 1/4"	11 5/8"	30'	Used	T			Existing		
Surface	8 3/4"	7"	549'	New		LS	64'		Existing	
Coal										
Intermediate 1										
Intermediate 2										
Intermediate 3										
Production	6 1/4"	4 1/2"	2767.55'	New	1	J-55			Existing	
Tubing		2 3/8"	2513'	New		J-55				
Packer type and d	epth set			*		*				
CEMENT DATA	Class/Type of Cement	sks to surface on 7" sur Numbe of Sack	er Sh	ırry	Yield ft ³ /sks)	Volume	Cem	ent	WO (hrs	
Conductor	or cement	OI Sack	is with	PPE) (11 /5K5)	<u> </u>	1) 401	VID)	(1115	·)
Surface	Reg Neat	140	15	.6	1.18	165	Surface		Exis	sting
Coal	- Hug Huar	1.10								
Intermediate 1										
Intermediate 2										
Intermediate 3										
Production	50:50 Pozmi:	x 115/12	5 13.2	14.2 1.	.64/1.27	189/186	284	4'	Exis	sting
Tubing										
Drillers TD (ft	\ 2813'	· ·		T a manua '	TT) (f4) 26	eu,				
	tion penetrated	Big Injun			TD (ft) 260 k to (ft) N					
Plug back pro	-			_ 1 lug bacı	x to (1t)		Offic	Receive a of Oil n		
Kick off depth	(ft) 600'						M	JV 06 2	2020	
THOR OIL GOPUL	(11)						100	Departm		
Check all wire	line logs run	□ caliper	□ density	□ devia	ited/direct:	ional 🗆 i	nduction	War at I	000	
		□ neutron	□ resistivit	y 🗆 gamn	na ray	□ t	emperature	□sonic		
Well cored	Yes 🛔 No	Conventi	onal Sid	ewall	W	ere cuttings	s collected	ıYes ■	No	
DECCRIPE TO		TOTAL DE ACTEMA		OD EACH C	י א פזאזכי פ	TDINIC				
		ZER PLACEM alizer placed mid string on 7"		OR EACH C	ASING S	TRING				
WAS WELL O	COMPLETED A	AS SHOT HOLE	E □ Yes ■	No D	ETAILS					
WASWEIL	COMPLETED (DEN HOLES	□ Yes ■	No DET	TAILS _					
MAD WITT		A THAT I TOTTE!	T T C2 = .	NO DET	mrs _					

TYPE OF TRACER(S) USED

WERE TRACERS USED 🗆 Yes 💄 No

API 47- 087 - 04780

Farm name WYROSTOK, CHARLES A. JR. Well number 124

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	9/28/15	2610'	2630'	80	Big Injun
-					

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date 10/1/15	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI) 683	Max Breakdown Pressure (PSI)	ISIP (PSI) 622	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	10/1/20	1.5	1032	1216	810	_,-,	10	2500 gals HCL
						Office of Oil or) Haisa	
						NOV 06 2	120	
						NOV UO Z	ULU	
						Environme	H E	

Please insert additional pages as applicable.

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'WR-35' Rev. 8/23/13

API 47- 087	_ 04780	Farm	name WYROS	STOK, CHA	ARLES A. J	R. Well	number	124	
PRODUCING	FORMATION(<u>S)</u>	<u>DEPTHS</u>						
Big Injun			2163'- 2190'	TVD	2580'- 2636'	MD			
						IVID			
				- -		=======================================			
Please insert ad	lditional pages a	us annlicable							
	□ Build up		□ Open Flow	(DIL TEST 🗖	Flow r	¬ Dumn		
	-		-				•		,
	SSURE Surf		_	om Hole	psi	DURA	ITON C	OF TEST	hrs
OPEN FLOW	Gas mcf	Oil pd	NGL bpd		Water bpd			RED BY	□ Pilot
									
LITHOLOGY/ FORMATION	TOP DEPTH IN FT	BOTTOM DEPTH IN FT	TOP DEPTH IN FT	BOTTOM DEPTH IN F	r DESCRIBE	POCK TV	DE ANITS	DECORD OUA	NITITY A NIT
FORMATION	NAME TVD	TVD	MD	MD				RECORD QUA	., GAS, H ₂ S, ETC)
Sand/Shale	0	1570	0	1622	ITTEOLIT	LUID (I KI.	SHWAL	EK, BKINE, OIL	, GA3, H23, ETC)
Sand	1570	1586	1622	1642					
Shale	1586	1673	1642	1748					
Sand	1673	1897	1748	2072					
Shale	1897	1907	2072	2090					
Sand	1907	2000	2090	2260					
Little Lime	2000	2018	2260	2295					
Pencil Cave	2018	2026	2295	2310					
Big Lime	2026	2139	2310	2530					
Keener	2139	2163	2530	2580					
Big Injun	2163	2190	2580	2636	Dri	illed directi	onal N 7	3.7° E a distanç	ce.of, 1030'
Shale	2190	2273	2636	2813				Office of Oi	0.0 0.0
TD	2273		2813						
								NOV 0 (2020
	ditional pages a	~ ~			- II			W/Depar Environments	The state of the s
Drilling Contract	ctor Decker Drill	ing		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		_	011		
Address 11565	State Route 6/6		City	Vincent		State	ОН	Zip <u>45784</u>	
Logging Compa	any Weatherford	I International							
Address 11000 F			City	Youngstown		State	OH	Zip <u>44502</u>	
Cementing Con	npany Universal	Services							
Address 14 Sew			City	Buckhannon		State	WV	Zip 26201	
Stimulating Con	mpany Produce	ers Service Cor	p.						
Address 109 Sou	uth Graham Street			Zanesville		State	ОН	Zip_43701	
	ditional pages a								
Completed by	Roger Heldman	1			Telephone	304-420	-1107		
Signature	for all	reclici-	Title O	perations Mana			Date 1	1/2/20	
Submittal of Hy	draulic Fracturi	no Chemical I	Disclosure Infor	mation	Attach conv.o	f FR ∆ C¤	פרנופ	Registry	

repared for:				Pr	epared by:	
				Pr	oducers Service Corp	
HG Energy LLC				Da	aniel L Graham	
5260 Dupont Rd	· ·			10	9 S. Graham St.	
Parkersburg WV 26101		PRODUCERS			anesville, OH 43702	
Dustin hendershot		SERVICE CORP.			10-454-6253	
FIELD TICKET:	23833					
WELL NAME:	Jonathan Smith #124					and the second second second
COUNTY/STATE:	Roane/WV					
TOWNSHIP/FIELD:	Clover					-
DATE of SERVICE:	10/1/2020					
CUSTOMER PO#:				г		7
Description		Notes	Amount	Units	Unit Cost	Total Cost
			1	EA		

Description	Notes	Amount	Units	Unit Cost	Total Cost
ACID PUMP CHARGE 1000-2000 PSI		1			
MILEAGE CHARGE PER UNIT ONE WAY			MI		
C ACID 15%		2500	GAL		
PRO HIB II		3	GAL		
PRO CLA FIRM LP		2.5	GAL		
PRO NE-1		2.5	GAL		
PRO PEN		2.5	GAL		
PRO SOL		25	GAL		
ACID DELIVERY		2	HR		
DATA VAN		1	STAGE		
DATA VAN					
			1		
Customer Approval:					

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WV Department of Environmental Protection

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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

10/1/2020

Well: J. Smith

Roane County, WV

Casing

OD: 4.5" ID: N/A

Weight: 10.5 lb.

TD: 2813 ft.

OD: N/A

Weight: N/A From: N/A

To: N/A

Tubing

Size: N/A Depth: N/A **Packers**

Upper Make: N/A

Upper Depth: 2513 ft. Lower Make: N/A

Lower Depth: N/A

Pressures

PSI Test: N/A

Breakdown: N/A Max: 1216 psi

Average: 1032 psi

Displacement: 1108 psi

Volumes:

Pad N/A

Treatment: 60 BBL #VALUE! 2500 Gal

Total: 71 BBL

Flush: 11 BBL

Open Hole Perforations

Size: N/A From: N/A

To: N/A

of Shots: N/A

Top Perf: 2610 ft.

Bottom Perf: 2630 ft.

Rates

Average: 1.5 bbl/min

Max: 2 bbl/min

Invoice #:

23833

Notes:

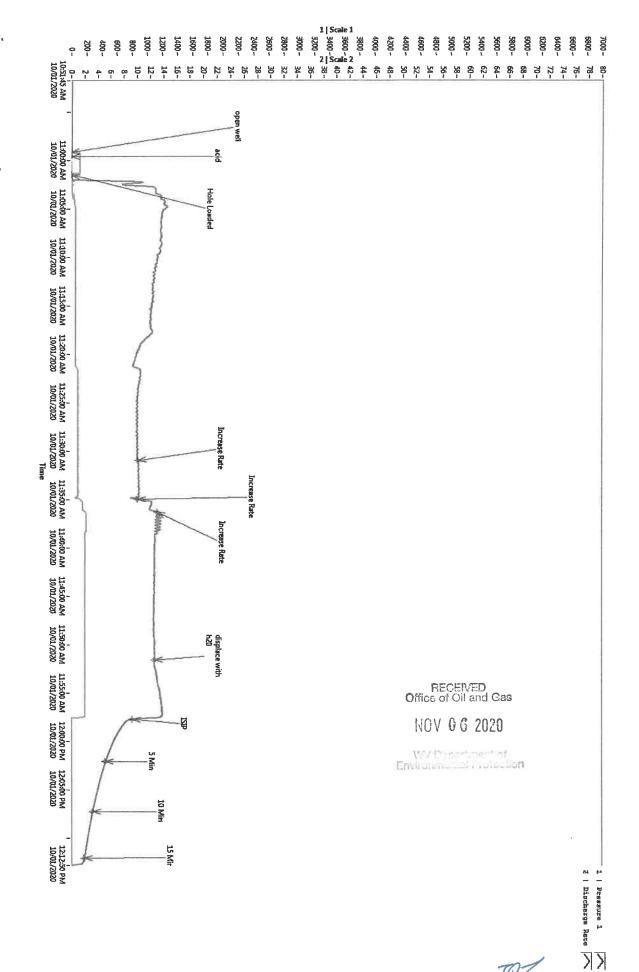
Office of Cilinari Gas

NOV 06 2020

WV Department of Environmental real recent



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10/1/2020 12:12:04 PM	10/1/2020 12:07:15 PM	10/1/2020 12:02:06 PM	10/1/2020 11:57:42 AM	10/1/2020 11:51:34 AM	10/1/2020 11:36:16 AM	10/1/2020 11:34:58 AM	10/1/2020 11:30:56 AM	10/1/2020 11:01:27 AM	10/1/2020 10:59:35 AM	10/1/2020 10:59:09 AM	Timestamp
15 Min	10 Min	5 Min	ISIP	displace with h20	Increase Rate	Increase Rate	Increase Rate	Hole Loaded	acid	open well	Annotation
171.79	280.23	452.83	810.20	1110.20	1136.35	879.48	887.11	-3.59	-11.88	-10.15	Pressure 1
0.00	0.00	0.00	0.00	2.03	2.03	1.19	0.96	0.00	1.23	1.03	Discharge Rate
494,30	494.30	494.30	494.30	2509.98	1184.24	1094.98	931.94	115.21	24.78	3.81	Stage Total (gal)
3019.93	3019.93	3019.93	3019.93	2509.98	1184,24	1094.98	931.94	115.21	24.78	3,81	Grand Total (gal)
11.77	11.77	11.77	11.77	\$9.76	28.20	26.07	(22.19 ()	1274 G	20) 20)20	aStage Total (bbl)
71.90	71.90	71,90	71.90	59.76	28 20	26.07	22.19	2.74	0.59	0.09	Grand Total (bbl)

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