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

API <u>47</u> 033 05684 County HAI	RRISON	District SARDIS	
Quad WOLF SUMMIT 7.5' Pad Name C		Field/Pool Name _W	VOLF SUMMIT
Operator (as registered with the OOG) H.G. ENERGY	(LLC		
Address 5260 DuPONT ROAD City	PARKERSBURG	StateWV	Zip 26101
Top holeNorthing 4.353,331Landing Point of CurveNorthingBottom HoleNorthing	Easti	ng ng ng	
Elevation (ft) 1,152' GL Type of W	ell ∎New □ Existing	Type of Report	□Interim ■ Final
Permit Type Deviated Horizontal Ho			
Type of Operation □ Convert □ Deepen ■ Drill	🗆 Plug Back 🛛 🗆 Redril	ling 🗆 Rework	Stimulate
Well Type □ Brine Disposal □ CBM □ Gas □ Oil	Secondary Recovery 🗆 So	lution Mining 🛛 St	orage 🗆 Other
Type of Completion ■ Single □ Multiple Fluids F Drilled with □ Cable ■ Rotary This Drilling Media Surface hole ■ Air □ Mud ■ Fresh Production hole ■ Air □ Mud ■ Fresh Water □ Mud Type(s) and Additive(s) ■ ■ ■ ■	is a brine well water Intermediate h	7	
N/A			
Date permit issued 10/24/12 Date drilling	commenced1/31/14	Office of Oil WV Dept. of Environ	mental Protection
	Date completion activ		
NI	anted		
Please note: Operator is required to submit a plugging a	oplication within 5 days of ve	rbal permission to p	blug
Freshwater depth(s) ft None	Open mine(s) (Y/N) de	epths	Ν
Salt water depth(s) ft None	Void(s) encountered (N	(/N) depths	N
Coal depth(s) ft 190'-200'	Cavern(s) encountered		N
Is coal being mined in area (Y/N) N			

Reviewed by:

06/27/2017

WR-35

API 47-033 - 05684 Farm name_MIKE ROSS, INC. & I.L. MORRIS Well number_10

CASING	Hole	Casing		New or	Grade	Basket	Did cement circulate (Y/ N)
STRINGS	Size	Size	Depth	Used	wt/ft	Depth(s)	* Provide details below*
Conductor	17 1/2'	13 3/8"	30'	Used	LS		Sand In
Surface	12 1/4"	9 5/8"	253'	New	LS	64'	Y
Coal							
Intermediate 1	8 3/4"	7"	450'	New	LS	64'	N
Intermediate 2							
Intermediate 3							
Production	6 1/2"	4 1/2"	2731.6'	New	J-55		Y
Tubing							
Packer type and de	epth set		1	1	1. <u></u> .		

Comment Details _______ Grouted surface on 7" surface cement job w/ 45 sks. Circulated Est. 50 sks to surface on 4 1/2" cement job.

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume $(ft^{\frac{3}{2}})$	Cement Top (MD)	WOC (hrs)
Conductor				(11.10)			(III3)
Surface	Reg Neat	165	15.6	1.18	195	Surface	8
Coal							
Intermediate 1	Reg Neat	110	15.6	1.18	130	Surface	8
Intermediate 2							· ·
Intermediate 3							
Production	50:50 Pozmix/ Econo	200/60	14.2/11.8	1.27/2.93	254/176	25'	8
Tubing							
Drillers TD (ff Deepest forma Plug back pro	tion penetrated Fifth S	and		gers TD (ft) <u>277</u> g back to (ft) <u>N/A</u>			
Kick off depth Check all wire	· /	•		deviated/directi gamma ray		ction perature □sonic	
	■ Yes ■ No HE CENTRALIZER				-	llected ■ Yes □	
WAS WELL (COMPLETED AS SH	IOT HOLE 🛛	Yes 🛢 No	DETAILS		Recei	
WAS WELL	COMPLETED OPEN	HOLE? 🗆 Ye	es 🛯 No	DETAILS		JUN 18	2014
WERE TRAC	ERS USED 🗆 Yes	No TY	PE OF TRACE	R(S) USED	WV	Office of Oil and Dept. of Environmen	d Gas

API 47-033 _ 05684

Farm name_____MIKE ROSS, INC. & I.L. MORRIS_____Well number____10

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	5/19/14	2600'	2603'	12	Fifth Sand
1	5/22/14	2592'	2593'	4	
1	5/22/14	2578'	2581'	12	

PERFORATION RECORD

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump	Ave Treatment	Max Breakdown		Amount of	Amount of	Amount of
		Rate (BPM)	Pressure (PSI)	Pressure (PSI)	ISIP (PSI)	Proppant (lbs)	Water (bbls)	Nitrogen/other (units)
1	5/22/14	10	1740	2227	1667	40,000	862	
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						(and		
							ecen	/eu
							JUN 18	014
						*		- //192

Please insert additional pages as applicable.

Office of Oil and Gas WV Dept. of Environmental Protection WR-35

API 47- 033	_ 05684	Farm	name MIKE RO	OSS, INC	. & I.L. MORR	IS Well nun	nber 10		
PRODUCING	FORMATION(S)	DEPTHS						
Fifth Sand			2581'-2603	_TVD		MD			
		=		2					
Please insert ad	lditional pages a	as applicable.		- 0					
GAS TEST	□ Build up □	Drawdown	□ Open Flow		OIL TEST	Flow DPu	imp		
SHUT-IN PRE	SSURE Surf	ace	_psi Botto	om Hole	psi	DURATIC	N OF TE	ST hrs	
OPEN FLOW					Water bpd				
LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	DEPTH IN FT		BOTTOM DEPTH IN MD	FT DESCRIBE			RD QUANTITY AND INE, OIL, GAS, H2S,	
Sand/Shale	0	190	0			- Y X X X			
Pittsburgh Coal	190	200							
Sand/Shale	200	1596							
Big Lime	1596	1678							
Big Injun	1678	1755							
Shale	1755	2178							
Fifty Foot	2178	2200							
Shale	2200	2254							
Sand	2254	2444		-					
Shale	2444	2581							
Fifth Sand	2581	2603							
Shale	2603	2810							
TD	2810								
Please insert ad	ditional pages a	s applicable.	-						
Address 11565	ctor Decker Drill	ing	C*+	Vincent		o 0		45794	
Address 11505	State Route 070		City	vincent		StateO	Zıp	45784	
Logging Comp	any Weatherford	International							
Address 777 No	orth River Avenue		City	Weston		State W	v Zir	26452	
		1.000							
	npany Baker Hu	ighes						0000	
Address 2228 P	hilippi Pike	_	City	Clarksburg	1	StateW	V Zip	26301	
Stimulating Co.	mpany Produc	ers Service Co	orp.						
	uth Graham Street		City	Zanesville	ð	State O	H Zir	, 43701	
	lditional pages a							Receiv	lon
Completed by	Roger Heldman				Telephone	304-420-11	07		
Signature	Ra	electro	Title O	poerations N			te 06/17/14	JUN 1 8 2	-
	00							18 2	2014

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

Office of Oil and Gas

33.05684

Prepared for:

HG Energy LLC.

Dustin Hendrshot

INVOICE #:

15668



Prepared by: Producers Service Corp Justin Snyder 109 S. Graham St.

Zanesville, OH 43702

740-454-6253

IIII IIII IIII					
WELL NAME: CL Griffin #10 Stage #2					
COUNTY/STATE Harrison/WV					
TOWNSHIP/FIELD: Wolf Summit					
DATE of SERVICE: 5/22/2014					
CUSTOMER PO#	1				
Description	Notes	Amount	Units	Unit Cost	Total Cost
FLUID PUMP CHARGE 0-3000 PSI MIN CHARGE 4 HRS		1	EA	\$	¢ 2750.00
BLENDER CHARGE 0-10 BPM		1	EA	\$	
MILEAGE CHARGE PER UNIT ONE WAY	2 Units @ 70 Miles		MI	\$	
SAND 20/40 OTTAWA		200	CWT	\$	
SAND 20/40 OTTAWA SAND DELIVERY / TON MILES	10 Tons X 70 Miles	700		\$	
IC ACID 15%		500	GAL	\$	
PRO HIB II		1	GAL	\$	
ACID DELIVERY			HR	\$	
PRO CLA LOK (KCL SUBSTITUTE)		20	GAL	\$	
PRO NE-21	4	10	GAL	\$	
PRO GEL 4		400	LB	\$	
BUFFERI		50		\$	
BUFFER II		50		\$	
BIO CLEAR 750		1	LB	\$	
AP BREAKER	1	22		\$	
BXL-A		15		100	
BXL-10C		15		13	
DATA VAN	1		STAGE		
Flowmeter 2" or 3"		1	STAGE	1	
				+	
			-	+	
			-	+	
			-	-	
			-	+	
				+	
			-	+	
				4	

Customer Approval:

Received

JUN 1 8 2014

Office of Oil and Gas WV Dept. of Environmental Protection 06/27/2017