February 15, 2013

API #47-085-08834F

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State of West Virginia Division of Environmental Protection Section of Oil and Gas

Well Operator's Report of Well Work

Farm Name:	Hartman				Operat	or Well N	lo.: Twei v	ve (12)	
LOCATION:	Elevatior District: Latitude: Longitud	Murphy 2,050		h of 39 Deg t of 80 Deg		: n. 30 S		se	
Company:	4541	DEEM OIL & GAS EMERSON AVE KERSBURG, WY	i, #1		Casing & Tubing Size		Used In Drilling	Left In Well	Cement Fill Up Cu Ft
Agent:		J. Frank Deem							
Inspector:		_arry Parrish							
Permit Issued:									
Well Work Cor		02-04-13			(See O	riginal V	V-35 Dated (01-11-02)	
Well Work Cor		02-05-13							
Verbal Pluggin									
Permission gra		_						RECEIVED	
Rotary	Cable	F	Rig				Offic	e of Oll and	
Total Depth (f					¢				
Fresh water de									
Salt water dept								MAR 1 2 2013	3
Is coal being m Coal Depths (1		ea (Y/N)?							
Coal Depuis (it).						Ŵ	Departme	ntof
OPEN FLOW	ΔΤΑ						Enviro	nmental Pro	tection
Producing form		Berea	Pav	zone depth	(ft)	2213-22			
		Show MCF		Initial open		Show	Bbl /		
	pen flow	23 MCF /		Final open		Show	Bbl / D		
		v between initial							
Static rock pres				essure) afte	r 24		Hours		
	Initial ope pen flow of open flov		CF / D Oil: and final te	Final open sts	itial oper	n flow *	* Bb Bbl / D Hours Hours	I/D	
•			•						
OR STIMULAT	ING, PHY	IIS FORM PUT T SICAL CHANGE OF ALL FORMA	E, ETC. 2)	. THE WEL	L LOG	WHICH I	S A SYSTEM	MATIC DETAIL	ED
		For: J.	F.DEEM O	IL & GAS, L	LC.				

By Allen ' Date: February 15, 2013

By(

PRESIDENT

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06/07/2013

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Hartman No. 12 (47-085-08834F)

vvere core samples taken? Yes NO vvere cuttings caught during drilling? Yes NO	Were core samples taken?	Yes No	Were cuttings caught during drilling?	Yes No
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Were Electrical, Mechanical or Geophysical Logs recorded on this well? If yes, please list _____

<u>NOTE</u>: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing or Stimulating:

Berea: Perforated (14 Holes) 2213'- 2236'

Treated Down 41/2" Casing w/500 GA, 30,000# 20/40 Sand, 425 Bbls. 60 Quality Foam

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Plug Back Details Including Plug Type and Depth(s):

Cast Iron Plug @ 2330'

Formations Encountered:	Top Depth	/	Bottom Depth Surface:
		на <u>— — — — — — — — — — — — — — — — — — —</u>	