DATE:	1/2/09	
API:	47-097-03548	

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

Well Operator's Report of Well Work

Farm Nan	ne: J	erry Dionne		Opera	ator W	ell No	Sale Marple	#4 D0812
LOCATIO	N:	Elevation:	1264'		Quadr	angle.	Berl	lin
	District:	War	ren	-		ounty:		nur
	Latitude:	8.560	Feet S. of	39	Dea.	05 Min.	00	Sec
						15 Min.		•
	Longitude.	3,300	i eel vv. oi		_ Deg.	TO WILL.		360.
Company	Devonian C	Sas Product	tion,Inc.		_			
				Casir	ıa &	Used in	1	Cement fill
Address:	PO Box 90	7		Tubi	- 1	Drilling	Left in W	/ell up Cu. Ft.
	Jane Lew,			9 5		30	conduct	
· ,	varie Lew,	20010	-	7'		1106'	1106'	
Agent:		اما	nn Haskins			4988	4988'	
Inspector:			Duckworth			+000	1000	
	nit Issued:	Oraly	06/24/08					
	Work Comn	nenced.	07/11/08	·				
	Work Comp		07/11/08					
Verbal Plu		ictou.	01120100	 			-	
Date Perr	nission Gran	ted on:						
		Rig	···					
Total Dep		itig	5054'	 				
	ter Depth (ft	٠	150'					_
LICOII AAS	iter Depth (it	<u> </u>	100					_
Salt Water	r Depth (ft):		none	11		<u> </u>		
<u>Juni 11414</u>	Сърии (ис)							
Is coal be	ing mined in	the area (Y	/N)?	N				
	Depths (ft):							
OPEN FL	OW DATA						11 (51)	
	Producing	formations _.			_	Pay zone de	epth (π)	
					_			00041
			Balit		_			2921'
			Ben		-			4478'
			E	K	_			4901'
			04	84-21-1		ial anan flav	N/A	Dhl/d
		l open flow	21	_		ial open flov		_Bbi/d Bbi/d
		l open flow	289	_Mcf/d.		nal open flov		
		en flow bet					Hours 	Hours
	Static roc	k Pressure	1650	_psig (si	ласе	press.) after	40	_ Hours
NOTE: O	n back of thi	a form put t	he following	n: 1) Det	aile of	nerforated ir	ntenvals frac	turing or
otimulation	n back of this ig, physical c	a ionne etc	ON The we	g. 17 Deu	ana ur ich ie s	evstematic	detailed de	ological
Sumulaur	all formation	nanye, ew.	درعا enco	intered b	w the	wellhore	actailed get	J 3.00.
iecora or	aii iUiiiialiUii	o, moduling	Coal Cilcul	antorou t	y ale			
Signed	, <i>S</i>		,					
Signe		4 MA		<u> </u>				
	By: Date: //	2/1:14						
	Date.	40/				•		004

08/17/2012

HYDRAULIC FRACTURING DETAILS

STAGE	FORMATION	PERFORATIONS	SAND
		# of shots	20/40
1st Stage	Elk	10	30,000
2nd Stage	Benson	10	30,000
3rd Stage	Balltown	9	15,000
			<u></u>

DRILLERS LOG

DRILLERS LOG					
FORMATION	FROM	TO			
fill	0	19			
red rock	19	225			
sand & shale	225	1,051			
red rock & shale	1,051	1,353			
sand & shale	1,353	1,695			
Big Lime	1,695	1,870			
sand & shale	1,870	1,890			
Injun	1,890	1,905			
sand & shale	1,905	2,470			
red rock & shale	2,470	2,501			
Fifth Sand	2,501	2,518			
sand & shale	2,518	2,580			
Bayard	2,580	2,610			
sand & shale	2,610	3,670			
Bradford	3,670	3,704			
sand & shale	3,704	4,505			
Benson	4,505	4,520			
sand & shale	4,520	4,880			
Elk	4,880	4,885			
sand & shale	4,885	TD			
		<u> </u>			

ELECTRIC LOG

FORMATION	DEPTH
Big Lime	1,685
Fifth Sand	2,495
Bayard	2,570
Bradford	3,670
Benson	4,450
Elk	4,890
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