

Rev. 8/23/13

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



API 47-15	02891 County CLAY	District U	INION			
	Pad Name		Field/Pool Name			
	DLDSWORTH, ET. UX.		mber KING #8			
	rith the OOG) RAVEN RIDGE E	NERGY, LLC				
Address 3230 PENNS	YLVANIA AVENUE City CH	ARLESTON State	WV Zip 25302			
	op hole Northing N/A	ed plat, profile view, and deviation  Easting N/A				
Landing Point of		Easting N/A				
Botto	m Hole Northing N/A	Easting N/A				
Elevation (ft) 1,250	GL Type of Well	■New □ Existing Type	of Report   Interim   Final			
Permit Type   Devia	nted   Horizontal   Horizon	ntal 6A 💄 Vertical Dep	th Type 🗆 Deep 🗂 Shallow			
Type of Operation □ Co	onvert 🗆 Deepen 🛢 Drill	Plug Back 🗆 Redrilling 🖂	Rework Stimulate			
Well Type 🗆 Brine Disp	oosal □ CBM ■ Gas ■ Oil □ Sec	condary Recovery   Solution Mi	ning   Storage   Other			
Drilled with □ Cable  Drilling Media Surface	Single Multiple Fluids Produ Rotary  hole Air Mud Fresh Wa	ster Intermediate hole 🛢 A	■ Oil □ Other			
Mud Type(s) and Additi SOAP	ve(s)					
			RECEIVED			
Date permit issued	7/10/2013 Date drilling com	nenced10/15/2013Da	te drilling ceased 10/19/2013			
Date completion activities	0/5/0044	Date completion activities ceas				
Verbal plugging (Y/N)	7.1	NI/A	ed by N/A			
10000 (11)	Sumo	June	WV Department of			
Please note: Operator is	required to submit a plugging applic	ation within 5 days of verbal pern	nissionicopius ental Protection			
Freshwater depth(s) ft	200'	Open mine(s) (Y/N) depths	N			
Salt water depth(s) ft	1150' - 1650'	Void(s) encountered (Y/N) dep	thsN			
Coal depth(s) ft	NONE OF RECORD	Cavern(s) encountered (Y/N) de	epths N			
Is coal being mined in ar	ea (Y/N)					
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API 47- 15	02891 Farm name_ WADE HOLDSWORTH, ET. UX. Well number_ KING #8								
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft			Did cement circulate (Y/N) * Provide details below*	
Conductor	14 1/4"	13 3/8"	30'	NEW	J-55 - 42 LBS		NONE		
Surface	12 1/4"	9 5/8"	378'	NEW	J-55 - 29 LBS		120'	YES	
Coal									
Intermediate 1	8 3/4"	7"	1899'	NEW	J-55 -	· 17LBS	335'		YES
Intermediate 2									
Intermediate 3							***		
Production	6 1/4"	4 1/2"	2264'	NEW	J-55 -	10.5 LBS	NONE		YES
Tubing						_			
Packer type and d	epth set	1				<del></del> =:	·		<del></del> -
Comment Details									
CEMENT	Class/Type	Number	Slurry	,	ield (	Volume	e Cement		WOC
DATA	of Cement	of Sacks	wt (ppg)		³/sks)	(ft <sup>3</sup> )	Top (MD		(hrs)
Conductor	CLASS I	10 - RIG					GROUND LE	EVEL	8
Surface	CLASS I	120	15.6		1.18	141.6	GROUND LI	EVEL	8
Coal					-1.				
Intermediate 1	CLASS I	300	15.6		1.18	354	GROUND LE	EVEL	8
Intermediate 2									
Intermediate 3									
Production	CLASS I	60	14.2		1.26	75.6	1608'		8
Tubing									
Drillers TD (ft Deepest forma Plug back pro	tion penetrated	SQUAW		Loggers T Plug back					
Kick off depth Check all wire	` /	-	density resistivity			•	•	□sonic	
	Yes No	<ul><li>Conventional</li><li>ZER PLACEMENT</li></ul>			w Asing s	ere cutting	gs collected   \ Office	HECE of O	No IVED I <mark>l and Gas</mark>
								JUN 1	
WAS WELL		AS SHOT HOLE			ETAILS		WV I Environi	Depar menta	tment of Protection
WAS WELL	COMPLETED (	PEN HOLE? □	Yes 🖪 No	DET	AILS _				
WERE TRAC	ERS USED 🗆	Yes No	ΓΥΡΕ OF TRA	ACER(S)	USED _				

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API 47- 15 - 02891 Farm name WADE HOLDSWORTH, ET. UX. Well number KING #8

## PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	12/19/2013	2106'	2126'	20	SQUAW
				<u></u>	
		 		_	

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	3/5/2014	35	2695	1307	1639	25,000	900	0
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Please insert additional pages as applicable.

Title OPERATIONS MANAGER

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

Signature

Date 5/30/2014