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



API <u>47</u> 15	_ 02887 CLA	Υ	District UNION					
Quad ELKHURST 7.5	E!							
Farm name_WILLIAM			Well Number KING #9					
Operator (as registered v	with the OOG) RAVEN RIDG	E ENERGY, LLC						
Address 3230 PENNS	SYLVANIA AVENUE City	CHARLESTON	State WV	Zip_25302				
	op hole Northing N/A	rilled plat, profile view, and East	I deviation survey ing N/A					
Landing Point		Easti	ng N/A					
Botto	om Hole Northing N/A	Easti	ng N/A					
Elevation (ft) 1,208'	GL Type of We	ell New 🗆 Existing	Type of Report	□Interim ≜Final				
Permit Type Devi	ated Horizontal Hori	zontal 6A	Depth Type	□ Deep ■ Shallow				
Type of Operation □ Co	onvert 🗆 Deepen 🗏 Drill	□ Plug Back □ Redril	ling 🗆 Rework	■ Stimulate				
Well Type □ Brine Dis	posal □ CBM ■ Gas ■ Oil □	Secondary Recovery So	lution Mining Sto	orage Other				
Type of Completion								
		oduced Brine Gas	□ NGL ■ Oil	□ Other				
Drilled with □ Cable	■ Rotary							
Drilling Media Surface	hole Air Mud Fresh	Water Intermediate h	ala milia and i					
Production hole Air			ole Air Mud	□ Fresh Water □ Brine				
Mud Type(s) and Additi		me						
	6/26/2013 Data drilling on	10/2/2012		Thucker's				
	Date drilling co		Date drilling of	ceased10/22/2013				
Date completion activitie		Date completion activ	ities ceased	1/5/2014				
Verbal plugging (Y/N) _	N Date permission gran	nted N/A	Granted by	ce oNAil and Gas				
Please note: Operator is	required to submit a plugging app	olication within 5 days of ve	rbal permission to pl	JUN I 6 2014				
Freshwater depth(s) ft	200'	Open mine(s) (Y/N) de	Environ	Department of				
Salt water depth(s) ft	1150' - 1650'	Void(s) encountered (Y	puis	N Protection				
Coal depth(s) ft	NONE OF RECORD	Cavern(s) encountered (Y		N				
Is coal being mined in are		_ cavern(s) encountered	(1/1N) depths					
a com come innect in arc	m (1/11)			Reviewed by:				

CASING	Hole	Casing	1	New or	Grade	Dealast	D11	
STRINGS	Size	Size	Depth	Used	wt/ft	Basket Depth(s)	Did cement circulate (Y/ N * Provide details below*	
Conductor	14 1/4"	13 3/8"	30'	NEW	J-55 - 42 LBS	NONE	SAND -IN BY RIG	
Surface	12 1/4"	9 5/8"	380'	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"	2275'	NEW	J-55 - 10.5 LBS	NONE	N/A	
Tubing								
Packer type and d	epth set							
Comment Details								
CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sk		Cemen Top (MI		
Conductor	CLASS I	10 - RIG				GROUND L		
Surface	CLASS I	120	15.6	1.18	141.6	GROUND L	EVEL 8	
Coal								
Intermediate 1	CLASS I	300	15.6	1.18	354	GROUND L	EVEL 8	
ntermediate 2								
Intermediate 3								
Production	CLASS I	80	15.6	1.18	94.4	1575'	. 8	
Tubing								
Drillers TD (ft) 2520'		Lo	oggers TD (f	7 1) 2523'			
Deepest format	tion penetrated w	EIR						
	cedure			-B out 10 (
	· .							
Kick off depth	(ft)			_				
Check all wirel	ine logs run	_		⊐ deviated/d ■ gamma ray		induction temperature	□sonic	
Well cored 🗆	Yes 🖪 No	Conventiona	l Sidewall		Were cutting	s collected 🗆 Y	Yes ■ No	
~								
DESCRIBE TH SHOE ON BOTTOM WITH	HE CENTRALIZI I latch down baffle in sh	ER PLACEMEN" HOE	T USED FOR E	ACH CASI	NG STRING 4	CENTRALIZERS RUN	PECENVED 1,3,5,7	
							of Oil and Ga	
						J	1111	
VAS WELL C	OMPLETED AS	SHOT HOLE	□ Yes ■ No	DETA	ILS	WV C Environm	Department of Tental Protection	
			 _				Wild Protectla	
VAS WELL C	OMPLETED OP	EN HOLE?	Yes • No	DETAILS	2	-	- 0100110	

API 47- 15 - 02887 Farm name WILLIAM C. MITCHELL

__Well number_KING #9

PERFORATION RECORD

Stage No.	Perforation date 12/18/2013 12/18/2013	Perforated from MD ft. 2190' 2094'	Perforated to MD ft. 2074' 2070'	Number of Perforations 16 20	Formation(s) WEIR SQUAW
3	12/18/2013	2051'	2031'	18	INJUN
<u> </u>					
<u> </u>					

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

	Rate (BPM)	Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
2/19/13	35	2410	2800	1552	20,000	550	0
		2196	2415	1526	18,000	419	0
2/19/13	28	3254	2170	1732	12,000	311	0
					<u> </u>		
							DE-71-
· ·						Office	TECEIVED
			 		<u> </u>		FOT Oil and Gas
	<u> </u>				 		
		- "					UN 1 6 2014
			 		 	WV f	Jenort-
						Environn	Pental D
					 		Protection
_	2/19/13		2/19/13 31 2196	2/19/13 31 2196 2415	2/19/13 31 2196 2415 1526	2/19/13 31 2196 2415 1526 18,000 2/19/13 28 3254 2170 1732 12,000	2/19/13 31 2196 2415 1526 18,000 419 2/19/13 28 3254 2170 1732 12,000 311

Please insert additional pages as applicable.

Rev. 8/23/13										
API 47- 15	_ 02887	Farm	name_WILLIA	M C. MIT	CHELL		_Well:	number	KINC	6 #9
PRODUCING 1	FORMATION(<u>S)</u>	DEPTHS							
WEIR			2074' - 2190'	TVD			MD			
SQUAW			2070' - 2094'	1 \ D			_ MD			
INJUN			2051' - 2031'				_			
			2001 - 2001				_			
Please insert ad	ditional pages a	s applicable.								
GAS TEST	Build up □	Drawdown	□ Open Flow		OIL TES	T ∄Fle	ow [Pump		
SHUT-IN PRES	SSURE Surf	ace 220	psi Bottom Hole			osi I	OURA?	TION C	F TES	T 12 hrs
OPEN FLOW	Gas	Oil			Water		GAS N	/EASI	REDI	RY
LITHOLOGY/	TOD	DOTTOM.	mon.	D.O. O.O.	_					
FORMATION	TOP DEPTH IN FT	BOTTOM DEPTH IN FT	TOP DEPTH IN FT	BOTTON DEPTH IN		ים יותומי	YOU WA	ND 4370		
TOIGHTHON	NAME TVD	TVD	MD	MD						D QUANTITYAND
SAND/SHALE	0	1590'	0	IVID.		OF FLU	ID (FRE	SHWAI	EK, BK	NE, OIL, GAS, H ₂ S, ETC)
SALT SANDS	1590'	1680'	-							
SAND/SHALE	1680'	1838'								
LITTLE LIME	1838'	1892'								
PENCIL CAVE	1892'	1906'								
BIG LIME	1906'	2024'			-					· · · ·
INJUN	2024'	2078'							<u> </u>	
SQUAW	2078'	2102'								
SAND/SHALE	2102'	2142'								
WEIR	2142'	2200'								
SAND/SHALE	2200'	2491'								
BEREA	2491'	2523'					-			
Please insert add	litional pages as	s applicable.								
Drilling Contrac	tor CUNNINGH	AM ENERGY,	LLC							
Address 3230 PE			City	CHARLES	TON		State	wv	Zip	25302
Logging Compa	NARORS CO	OMPLETION &	PPODLICTION	CO		_				
Address 82 ELKI		SWIF EL TION &			NON		_	1407		2020
Address oz zzka	- TOAB		City	BUCKHAN	INON		State		_ Zip	26201
Cementing Com	pany ALLIED O	IL AND GAS S	ERVICES, LLC							
Address 100 HOF	City				State	WV	7in	26301		
Stimulating Company PRODUCERS SERVICE CORPORATION										
Address 109 SOUTH GRAHAM STREET City ZANESVILLE State OH Zip 43701 Please insert additional pages as applicable.										
ricase insert add	uuonai pages as	applicable.								
Completed by	DANIELLE N. B	oggs			Telen	hone 30	04-344-	9291		
Signature	ul n.	Bugger	Title OF	PERATIONS				Date _5/:	30/2014	
Submittal of Hyo	Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry									