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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> - 039 - 06	County Kana	wha	_ District Elk		
Quad Big Chimney	Pad Name n/a	l	Field/Pool Name	n/a	
Farm name River Ridge Co	ommunity Church		Well Number Ri	ver Ridge #1	
Operator (as registered with	the OOG) Reserve Oil and	d Gas, Inc.			
Address 929 Charleston F	Road City S	Spencer	State WV	Zip 25276	
As Drilled location NAD 8 Top h Landing Point of Cu Bottom H	ole Northing 503,304 (4) ole Northing	E		0428) <i>781.5675681</i>	
Elevation (ft) 775	GL Type of We	ll ■New □ Existing	Type of Repo	rt □Interim BFinal	
Permit Type Deviated	□ Horizontal □ Horiz	zontal 6A 🛮 B Vertical	Depth Type	□ Deep ■ Shallow	
Type of Operation □ Conver	rt 🗆 Deepen 🛢 Drill	□ Plug Back □ Red	drilling □ Rework	■ Stimulate	
Well Type □ Brine Disposal	□ CBM ■ Gas □ Oil □	Secondary Recovery	Solution Mining	Storage Other	
Drilling Media Surface hole	Rotary : ■ Air □ Mud □Fresh Wud ■ Fresh Water □ Br		s □ NGL □ Oil e hole ■ Air □ Mi		_
Date permit issued08/09	40/4/0040		Date drilling		- 5
-	/a Date permission gran		Granted by	n/a Diana	
				1.1/ = 3.073	
Please note: Operator is requi	red to submit a plugging appl	ication within 5 days of	verbal permission to	plug	
				 - 1512A	21.21
Freshwater depth(s) ft	70	Open mine(s) (Y/N)	depths	NOECEIVED	A Mio
Salt water depth(s) ft	730, 825	Void(s) encountered	(Y/N) depths	Office NOCIL and Gas	_
Coal depth(s) ft	None	Cavern(s) encounter	ed (Y/N) depths	NO	3
Is coal being mined in area (Y	(N)NO		-	OCT 1 5 2013	
				Wy Reviewed by:	13

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Rev. 8/23/13					Ob.			Rive	r Ridg	e #1
API 47- 039	06362	Farm name	River Ric	dge Comm	unity Chi	urcn_Wel	ll numb	per		
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		Basket Depth(s			ent circulate (Y/N) le details below*
Conductor	17 1/2	13 3/8	38	New	4	8.0	no	ne	No, cem	ent by hand to surface
Surface	12 1/4	9 5/8	337	New	2	6.0	1 at	t 84'	No, grou	ted 20 sacks to surface
Coal										
Intermediate 1	8 3/4	7	1730	New	1	7.0	1 at	295'	Y	es, 5 bbl to pit
Intermediate 2										
Intermediate 3										
Production	6 1/2	4 1/2	4409.05	New	1	1.6	5 at joints: 1	0,20,30,40,50		
Tubing	6 1/2	7 1/2	4400.00	 						
Packer type and de	enth set				1		L			
Comment Details										
	Class/Time	Number	Stu	mv.	Yield	Volume	e	Cemer	nt	woc
CEMENT DATA	Class/Type of Cement	of Sacks	wt (p		ft ³ /sks)	(ft. ²)		Top (M	D)	(hrs)
Conductor	Portland	10						GL		13
Surface	Type 1	120	14.	.7	1.39	168		GL		13
Coal										
Intermediate 1	15-85-8/Type 1	90/135	12.3/	15.6 2	.26/1.2	203.4/1	62	GL		8
Intermediate 2										
Intermediate 3										
Production	Tufflite	140	12	.0	2.49	348.6	3	442	6	10
Tubing								_		
Drillers TD (fi Deepest forma Plug back pro	tion penetrated H	iron			TD (ft) 445 k to (ft)					
Kick off depth	eline logs run	■ caliper	■ density	□ devia	ated/direct		induct		≜ soni	ia.
	□ Yes B No THE CENTRALIZ	□ neutron □ Convention		ewall	W	Vere cuttin	_	ected [Yes	□ No
DESCRIBE I										
9 5/8": 1 centralizer										
	ed at joints: 10, 20, 30 0, 20, 30, 40, 50, & 60									
	COMPLETED AS	S SHOT HOLE	∄ Yes □	no I	DETAILS					
WAS WELL	COMPLETED O	PEN HOLE?	□ Yes 🖪	No DE	TAILS _				-	

TYPE OF TRACER(S) USED _

WERE TRACERS USED □ Yes ■ No

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API	47-	039	06362	Farm name	River Ridge Community Church	_Well number_	River Ridge #1
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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	10/1/2013	3782	4368	40	Huron
2	10/1/2013	2892	3710	40	Huron
		· · · · · · · · · · · · · · · · · · ·			
-					
					·

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	10/1/13		2396	2275	2023	none	12	1,049,373 scf
2	10/1/13		2476	1770	2262	none	24	1,004,529 scf

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Please insert additional pages as applicable.

WV Department of Environmental Protection

Rev. 8/23/13								
API 47- <u>039</u>	_ 06362	Farm r	name River Ridge	Community (Church	Well number	River Ridge #1	
PADITICING I	FORMATION(S	8	<u>DEPTHS</u>					
	CACHALAZAGAN	_				.		
Huron			2892-4368	_TVD		мр		
								
				_		<u>.</u>		
						_		
	ditional pages a							
	□ Build up □							
SHUT-IN PRE	SSURE Surfa	ace 0	_psi Bottor	n Hole <u>40</u>	psi	DURATION (OF TEST 21	hrs
OPEN FLOW	Gas	Oil				GAS MEASU		
	304 mcf	pd 1	bpd	bpd	bpd	□ Estimated	B Orifice □ Pilo	t
				DOWNOL 4				
LITHOLOGY/	ТОР	BOTTOM	TOP	BOTTOM	DESCRIBE I	ROCK TYPE AND	RECORD QUANTITY	ND
FORMATION	DEPTH IN FT	DEPTH IN FT TVD	DEPTH IN FT MD	MD			TER, BRINE, OIL, GAS,	
	NAME TVD 0	140	0					
	-							
			 			·		
	 	<u> </u>	 					
	<u></u>		+			See Attachr	nent for Formations	
Please insert a	l dditional pages a	es applicable.			.l			
Drilling Contra	actor Kanawha \	/alley Drilling	Cit.	Spencer		State WV	Zip 25276	
Address 929 C	narieston Road		City	Ореност		State	Zip	
Logging Comp	nany Nabors							
Address 515 W	est Greens Road,	Suite 1100	City	Houston		State _TX	Zip <u>77067</u>	
_								
Cementing Co	mpany Baker H	ngries	City	Houston		State TX	Zip 77073	
Address 17015	Aldine Westfield R		City					
Stimulating Co	ompany Baker	Hughes					77070	
Address 17015	Aldine Westfield F	load	City	Houston		State TX	Zip <u>77073</u>	
	dditional pages							
Co11 L-	Rvan Fields				Telenhone	e 304-927-5033	_	
Completed b	y 11,21,10,000 (Tro Onl	Title c	erk	* orobnou	Date	10/11/2013	
Digitature	pages	Just					7-	

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Formation	TOP (TVD)	BOTTOM (TVD)	TOP (MD)	BOTTOM (MD)	Remarks
KB to GL			0	7	70', hole damp
Fill Dirt	0	28	7	35	
Rock	28	358	35	365	335', tag cement
White Sand	358	478	365	485	
Sand & Shale	478	673	485	680	730', hole wet,
Salt Sand	673	1070	680	1077	1/4" stream
Sand & Shale	1070	1085	1077	1092	
Maxton	1085	1097	1092	1104	825', 2 1/2"
Salt Sand	1097	1293	1104	1300	stream
Maxton	1293	1395	1300	1402	
Little Lime	1395	1436	1402	1443	1150', change to
Shale	1436	1442	1443	1449	fluid
Big Lime	1442	1618	1449	1625	
njun	1618	1643	1625	1650	1707', tag
Squaw	1643	1663	1650	1670	cement
Sand & Shale	1663	1713	1670	1720	
Veir	1713	1863	1720	1870	1886, crude
Coffee Shale	2036	2056	2043	2063	smell
iand & Shale	2056	2223	2063	2230	
luron	2223	4419	2230		2170', crude
					smell
					Jilicii
					4426', 2/10 thru
					2"
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