WR-35 Rev. 8/23/13

Page 1 of 4

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

API 47_ 39	_ 06347 Co	unty KANAW	/HA	District BIG SAN	IDY		
Quad CLENDENIN -	299 Pa						
Farm name DANIEL 8				Well Number OS	SBORNE 1A		
Operator (as registered v	with the OOG) RAV	EN RIDGE EI	NERGY, LLC				
Address 3230 PENNS			ARLESTON	State WV	Zip 25302		
Landing Point	op hole Northin	g N/A N/A	East	ting N/A N/A			
Botto	om Hole Northing	g N/A	East	ring N/A			
Elevation (ft) 980' Permit Type Devi	GL ated □ Horizonta		New DExisting	Type of Repor	rt Interim □Final □ Deep I Shallow		
					□ Deep ■ Shallow		
Type of Operation C	onvert Deepen	■ Drill □	Plug Back Redri	lling Rework	■ Stimulate		
Well Type Brine Dis	posal □ CBM ■ Ga	s loil - Sec	ondary Recovery	olution Mining	Storage Other		
Type of Completion ■ Drilled with □ Cable Drilling Media Surface	Rotary				□ Other Id □ Fresh Water □ Brine		
Production hole Air	□ Mud □ Fresh	Water Brine					
Mud Type(s) and Addit SOAP	ive(s)						
Date permit issued1			nenced3/14/2013	Date drilling	g ceased3/21/2013		
Date completion activitie	es began8/30	0/2013	Date completion acti	vities ceased	9/13/2013		
Verbal plugging (Y/N)	N Date per	mission granted	1N/A	Granted by	N/A		
Please note: Operator is		olugging applica	ation within 5 days of v	The state of the s	piRECEIVED fice of Oil & Gas		
Freshwater depth(s) ft	200'		Open mine(s) (Y/N) d		N		
Salt water depth(s) ft	1,200' - 1,70		Void(s) encountered (DEC 1NG 2013			
Coal depth(s) ft	NONE OF RECO		Cavern(s) encountered	d (Y/N) depths	V Department of		
Is coal being mined in ar	rea (Y/N)	NO		Enviro	onmental Protection		

W/D 25

Rev. 8/23/13								Page oi
API 47- 39	06347	Farm name	DANIEL & L	AURA BOD	KINS w	ell number_OS	SBORNE	E 1A
		ram name				en number		
CASING STRINGS	Hole	Casing		ew or Gra		Basket		ent circulate (Y/N)
Conductor	Size 14 1/4"		<u> </u>	Jsed wt NEW J5	π 55 - 42 LBS	Depth(s)		le details below*
Surface	12 1/4"					 	150-0	EMENTED BY RI
Coal	12 1/4"	9 5/6"	380'	NEW L	S - 17 LBS	<u> </u>	 	YES
Intermediate 1	0.0445	70	2001	VIENAL III		0.101		
Intermediate 2	8 3/4"	7" 1	836' 1	NEW J	55 - 23LBS	348'		YES
Intermediate 3								
								
Production	6 1/4"	4 1/2" 2	160'	NEW J5	5 - 10.5LBS			YES
Tubing							<u> </u>	
Packer type and d	epth set							
CEMENT	Class/Type	Number	Slurry	Yield	Volum	ne Cem	nent	Woc
DATA	of Cement	of Sacks	wt (ppg)	(ft ³ /sks)	<u>(ft ³)</u>	Top (MD)	(hrs)
Conductor	Class I	10 - Cemented by Hand				Ground	l Level	8
Surface	Class I	120	15.6	1.18	141.6	6 Ground	l Level	8
Coal								
Intermediate 1	Class I	330	15.6	1.18	389.4	4 Ground	l Levei	8
Intermediate 2				<u> </u>				-
Intermediate 3								
Production	Class I	150	14.2	1.29	193.5	5 50	10'	8
Tubing								
Drillers TD (fit Deepest forma Plug back pro	tion penetrated _	WEIR		ggers TD (ft)				
Kick off depth	(ft) <u>N/A</u>			- -				
Check all wire	line logs run	-	•	deviated/dire		induction temperature	■sonic	
Well cored	Yes A No	Conventional	Sidewall		Were cuttin	gs collected	□ Yes ■	No
DESCRIBE T	HE CENTRALIZ	ZER PLACEMENT U	SED FOR EA	ACH CASING	STRING _			
						DEC	EIVED	1
WAS WELL	COMPLETED A	S SHOT HOLE	Yes B No	DETAIL	s	Office of		
						— DEC	1.6 201	<u> </u>
WAS WELL (COMPLETED O	PEN HOLE? □ Ye	s 🖪 No	DETAILS		WV Dep	artme	nt of
					E	vironme	ntal Pr	otection
WERE TRAC	ERS LISED N	Yes ■ No TY	PE OF TRAC	FR(S) LISED	المكا	IAIIOIIIIO		

TYPE OF TRACER(S) USED _

WERE TRACERS USED ☐ Yes ■ No

WR-35 Rev. 8/23/13

API 47- 39 - 06347

06347 Parm name DANIEL & LAURA BODKINS Well number OSBORNE 1A

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	8/28/2013	1950'	2100'	20	WEIR

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	8/30/13	30	2608	2880	1638	8,800lbs.	494	0
		-			-			
			***				RECEIV ce of Oil	
						Offic	ce of Oil	& Gas
			-			0000		
							DEC 1.6	2013
			****				D U .A U	
				·				

Please insert additional pages as applicable.

WV Department of Environmental Protection WR-35 Rev. 8/23/13

API 47- 39	_ 06347	Farm	name_DANIE	L & LAUR	A BODKINS	Well	numbei	OSBORNE 1A
PRODUCING	FORMATION	<u>(S)</u>	DEPTHS					
WEIR			2141' - 2190'	TVD		MD		
				_				
Please insert ad	ditional pages a	as applicable.				_		
GAS TEST			□ Open Flow		OIL TEST	Flow !	Pump	
								OF TEST 12 hrs
OPEN FLOW	Gas 2 met	fpd	bpd	_ bpd _	Water bpd	GAS N Estir		JRED BY □ Orifice □ Pilot
LITHOLOGY/ FORMATION	DEPTH IN FT		DEPTH IN FT		T DESCRIBE			RECORD QUANTITYAND
SAND	NAME TVD 0	TVD 1269'	MD 0	MD	TYPE OF F	LUID (FRE	SHWAT	ER, BRINE, OIL, GAS, H ₂ S, ETC)
SALT SAND	1269'	1494'	0					
SAND	1494'	1557'						
MAXTON	1557'	1695'						
PENCIL CAVE	1695'	1713'						
LITTLE LIME	1713'	1719'						
BIG LIME	1719'	1879'						
BIG INJUN	1879'	1904'						
SAND	1904'	2141'						
WEIR	2141'	2190'						
SAND	2190'	2247'						
Please insert ad	ditional pages a	s applicable.						
Drilling Contract	R & R Well	Service						
Address Ambler		CCIVICC	City	Walton		Charte	WV	25286
Address Ambier	riage		City	vvaitori		State	VVV	Zip _25286
Logging Compa	any Nabors Con	npletion & Prod	uction					
Address 82 Elkir			City	Buckhannor	i	State	WV	Zip _26201
	npany Universal	Well Services		Boots			140 /	0000
Address 5 Hall R	kun Road		City	Buckhannon		State	WV	Zip 26201
Stimulating Cor Address 109 Gra		ers Service Cor	rporation City	Zanesville		State	OPf	fice of Oil & Gas
Please insert add		s applicable	City			State	<u> </u>	ZIP
					2	204.044	0001	DEC 1-6 2013
Completed by	Danielle N. Bog	ys 2			Telephone			plotos som a utilisa i i i
Signature	4.0. n.	U20a	Title O	perations Man	ager		Date V	1920 epartment of