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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 47 - 033 - 0	5758	County HARRIS	SON	Distric	t TEN MILE		
Quad SALEM 7.5'		Pad Name W.B.			Pool Name V		TIMMIT
Farm name JUNKINS, EA	ARL & BE				Number 135		
Operator (as registered with	the OOG	H.G. ENERGY LLC	C				
Address 5260 DuPONT	ROAD	City PAF	RKERSBURG	St	ate WV	Zip	26101
	Curve	Attach an as-drille Northing 4,347,316 M Northing 4,347,386 M		, and devia Easting 54 Easting Easting 54	2,627 M		
Elevation (ft) 1,390'	GL	Type of Well	■New □ Existing	Т	ype of Report	□Interim	Final
Permit Type   Deviate	d 🗆 H	orizontal   Horizon	tal 6A D Vertica	al I	Depth Type	□ Deep	Shallow
Type of Operation □ Conv	vert 🗆 🗅	Deepen  Drill  □	Plug Back □ R	edrilling	□ Rework	□ Stimu	late
Well Type □ Brine Dispos	sal 🗆 CBM	I □ Gas □ Oil ■ Sec	ondary Recovery	□ Solution	Mining   Si	torage 🗆	Other
Type of Completion ■ Sin Drilled with □ Cable ■ Drilling Media Surface has Production hole ■ Air of Mud Type(s) and Additive N/A	Rotary ble ■ Air Mud ■	□ Mud ■Fresh Wat	ter Intermedi				n Water □ Brine
Date permit issued 8/	20/13	D. 120	10/25/	/13			10/31/13
Date completion activities l		Date drilling comm					
Verbal plugging (Y/N)	NI	Date permission granted	Date completion			12/0/10	9
verbai piugging (1/14)		Date permission granted		Gra	anted by	RECEN	/ED
Please note: Operator is rec	quired to su	bmit a plugging applica	ation within 5 days	of verbal p	ermission to p	olug	and Gas
Freshwater depth(s) ft		None	Open mine(s) (Y/I	N) depths	V	MAR 28	2014
Salt water depth(s) ft	N	one	Void(s) encounter		depths WV	Depart	hont of
Coal depth(s) ft	738'-	746'	Cavern(s) encount		process of the second		
Is coal being mined in area	(Y/N)	N					iewed by:

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API 47- 033	05758	Farm n	ame_JUNKINS	S, EARL &	BELVA	Wel	l number_13	35		
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		Basket Depth(s)	Did cen	Did cement circulate (Y/ N) * Provide details below*	
Conductor	12 1/4"	11 5/8"	30'	Used		LS	Deptil(s)	* Provide details below* Sand In		
Surface	8 3/4"	7"	836'	New	<del>                                     </del>	LS	64'		Y	
Coal		<u> </u>		11011	+			_ -	<u> </u>	
Intermediate 1					+					
Intermediate 2					<u> </u>					
Intermediate 3	<del> </del>									
Production	6 1/2"	4 1/2"	3307'	New	<del>                                     </del>	I-55			Υ	
Tubing	0 1/2	7 1/2	3307	1101	<del>                                     </del>	1-00				
Packer type and d	lepth set			1	<u> </u>	<u> </u>		l		
Comment Details	Circulated Est. 10 bbls	to surface on 7" su	rface cement job. Circ	culated Est. 10 bl	ols to surface	on 4 1/2" cemer	nt job.			
CEMENT DATA	Class/Type of Cement	Numbe of Sack			Yield t ³/sks)	Volume (ft <sup>3</sup> )	Cen Top (	nent (MD)	WOC (hrs)	
Conductor		1								
Surface	Reg Neat	215	15.6	3	1.18	254	Sur	face	8	
Coal								_		
Intermediate 1										
Intermediate 2										
Intermediate 3										
Production	50:50 Pozmix/ Ecor	200/8	5 14.2/1	1.8 1.2	27/2.93	254/250	45	50'	8	
Tubing		_								
Drillers TD (fl Deepest forma Plug back pro	tion penetrated Fif	h Sand		Loggers T Plug back						
Kick off depth	(ft) <u>869'</u>									
Check all wire	line logs run	a caliper neutron	■ density ■ resistivity		ed/directi a ray		nduction emperature	□sonio	2	
Well cored	Yes No	Convention	onal Sidev	wall	W	ere cuttings	s collected	■ Yes □	ı No	
DESCRIBE T 15 Centralizers every 64'	HE CENTRALIZI from bottom on 4 1/2*, Centralize	ER PLACEMI r placed mid string on 7*	ENT USED FO	R EACH C	ASING S	TRING _				
WAS WELL (	COMPLETED AS	SHOT HOLE	E □ Yes ■	No DI	ETAILS					
WAS WELL (	COMPLETED OP	EN HOLE?	□ Yes ■ No	o DET	AILS			-		
VEDE TO AC	ERS USED □ Y	e A No	TYPE OF TI							

API 47- 033 -

Farm name\_JUNKINS, EARL & BELVA Well number\_135

## PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	12/4/13	3179'	3188'	36	Fifth Sand
-				_	
				<del>                                     </del>	
			-	<del>-</del>	
		·			
			_	-	
-					
_					
				_	
				L	

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	12/5/13	10	1507	2468	1569	10,000	315	
		•					_	
		-					_	
		-				<del> </del>		
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Please insert additional pages as applicable.

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API 47- 033	05758	Farm	name_JUNKIN	S, EARL & I	BELVA	Well n	number_	135	
RODUCING	FORMATION	N(S)	DEPTHS						
Fifth Sand			3033'-3044'	_TVD _31	76'-3190'	MD			
						_			
lease insert ad	ditional pages	as applicable.							
GAS TEST	□ Build up	□ Drawdown	□ Open Flow	OI	L TEST	Flow E	Pump		
HUT-IN PRES	SSURE Su	rface	_psi Botto	m Hole	psi	DURAT	TION O	F TEST _	hrs
PEN FLOW			NGL bpd	bpd	ater bpd	GAS N □ Estir	MEASU mated	RED BY	□ Pilot
ITHOLOGY/ ORMATION	DEPTH IN FT								
Sand/Shale	NAME TVD 0	738	MD 0	MD 738	TYPE OF FI	LUID (FRE	SHWATI	ER, BRINE, O	IL, GAS, H <sub>2</sub> S, ETC)
Pittsburgh Coal	738	746	738	746					
Sand/Shale	746	2084	746	2159					
Big Lime	2084	2166	2159	2248					
Big Injun	2166	2219	2248	2307					
Shale	2219	2627	2307	2745					
Fifty Foot	2627	2648	2745	2767					
Shale	2648	2717	2767	2840					
Sand	2717	2871	2840	3004					
Shale	2871	3033	3004	3176					
Fifth Sand	3033	3044	3176	3190	Drille	d direction	al N 68 d	degrees E a d	istance of 776'
Shale	3044	3195	3190	3361					
TD	3195		3361						
lease insert ad	ditional pages	as applicable.							
Orilling Contraddress 11565	ctor Decker D State Route 676	rilling	City	Vincent		State	ОН	Zip _4578	34
ogging Compa	any Weatherfo	ord International					4157		
Address 777 No	rth River Avenue		City	Weston		State	WV	_ Zip 2645	52
Cementing Con	npany Baker H	Hughes	City	Clarksburg		State	wv	Zip 2630	01
		Oraș in To				otato			
timulating Con Address 109 So	mpany Produ uth Graham Stre	ucers Service Co et	city	Zanesville		State	ОН	Zip _4370	01
lease insert ad	ditional pages	as applicable.							

Completed by Roger Heldman
Signature Lyu Couch

Telephone 304-420-1107

Title Operations Mgr Date 3/24/14