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 - 021 _ 05779 County Gil	mer	District Glenville	
Quad Burnsville Pad Name	/arshall # 5-A	Field/Pool Name	
Farm name I.L. Morris		_ Well Number Marsha	II 5-A
Operator (as registered with the OOG) Horizon Ener	gy Corporation		_ i
Address Sand Fork Road Box 111 City	Sand Fork	State WV	Zip 26430
Top hole Northing Landing Point of Curve Northing Bottom Hole Northing	Eas	stingstingstingstingstingstingstingstingstingstingsting	
Elevation (ft) 1030.7' GL Type of V	Vell ■New □ Existing		
Permit Type Deviated Horizontal H	orizontal 6A	Depth Type	Deep Shallow
Type of Operation □ Convert □ Deepen ■ Drill	□ Plug Back □ Redi	illing 🛭 Rework 🗀	Stimulate
Well Type □ Brine Disposal □ CBM ■ Gas ■ Oil	□ Secondary Recovery □ S	Solution Mining	e 🗆 Other
Drilled with □ Cable ■ Rotary Drilling Media Surface hole ■ Air □ Mud □ Fresh Production hole ■ Air □ Mud □ Fresh Water □ Mud Type(s) and Additive(s)		hole El Air 🗆 Mud 🙃	Fresh Water 🗆 Brine
Date permit issued 06/23/2014 Date drilling Date completion activities began 07/29/2014	commenced 07/17/201	4 Date drilling ceas	i
Verbal plugging (Y/N) Date permission g			
Please note: Operator is required to submit a plugging a Freshwater depth(s) ft Salt water depth(s) ft Coal depth(s) ft Is coal being mined in area (Y/N)	opplication within 5 days of Open mine(s) (Y/N) Void(s) encountered Cavern(s) encountered	depths d(Y/N) depths d(Y/N) depths	
	Offic	se of Oil and Gas DEC 0 1 2014	Neviewed by:

WV Department of Environmental Protection

WR-35 Rev. 8/23/13									Page 2 of 4
API 47- 021	05779	Farm nai	me_I.L. Morr	is		Well nu	mber_Mar	shall 5-	Α
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/fl		sket th(s)		nt circulate (Y/N) details below*
Conductor			_						
Surface									
Coal									
Intermediate 1	8 3/4	7"	717	new	17				Yes
Intermediate 2									
Intermediate 3									
Production	6.50	4 1/2	2912	new	10.5	i			no
Tubing									
Packer type and do	pth set								
CEMENT DATA	Class/Type of Cement	Number of Sacks			Yield l ³/sks)	Volume	Cemen Top (MI		WOC (hrs)
Conductor	or comen	U, Davis	1	1					
Surface									
Coal									
Intermediate 1	Type 1	125					·		8 hrs.
Intermediate 2	type t			_					
Intermediate 3									
Production	Strong lite 150	90	-			 			
Tubing	Onorigine 130	, , , , ,							
		<u>-</u>	.1						
Drillers TD (ft)					D (ft) 3023				
•	tion penetrated _			_ Plug back	to (ft)				!
Plug back pro-	cedure								
Kick off depth	(ft)								
Check all wire	line logs run	a caliper a neutron	■ density ■ resistivity		ed/directions a ray		ection perature	□sonic	
Well cored	Yes 🗆 No	Conventio	nal Side	wali	Were	cuttings co	ollected =	Yes 🗆	No
							_	_	
DESCRIBE TI	HE CENTRALI	ZER PLACEME	NT USED FO	OR EACH C	ASING STR	ING 41/2c	asing centralizers	s #2,#5,#15,	#20
-								ECE	
WAS WELL C	OMPLETED A	S SHOT HOLE	□Yes 🖣	No DI	ETAILS				and Gas
							D:	EC 0 1	2014
WAS WELL C	OMPLETED O	PEN HOLE?	□ Yes 🖪 🗅	No DET	AILS				
	_						WV.	lepar	tment of
WERE TRACE	ERS USED 🗖	Yes 🖪 No	TYPE OF T	TRACER(S)	USED	E			Protection

Page 3 of 4 WR-35 Rev. 8/23/13

_Well number_Marshall 5-A Farm name_I.L. Morris API 47- 021 -05779

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft_	Number of Perforations	Formation(s)
1	7/29/2014	2843 2847		16	5th Sand

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	07/29/14		2779	2787	1447	366	172	340,548
								·
-	 							
	1			1				
	†							
	 							
	 					 		
-	1			+		 	-	:
	 			 		<u> </u>		
<u> </u>				- 		<u> </u>		
-	 			- 		 	ECEIVE	7
-	 			 		Office	0, O:1	
-						₩ 111.0 G	of Oil ar	d Gas
						D.S	C 0 1 201	A :
							1 601	†
						WVD	250rtm	
Plcase	insert additio	nal pages as a	pplicable.			Environm	epartme ental Pro	nt of Diection

WR-35 Rev. 8/23/13									Page 4 of 4
	_ 05779	Farm	name_I.L. Mor	ris		Well	numbe	r_Marshall 5-	Α
PRODUCING	FORMATION		DEPTHS						
	TORMATION	ञ		41.04	2047				
5 Th Sand			2843	TVD	2847	MD	t.		
			-						
									
Please insert ac	dditional pages a	as applicable.		-	i a	-			
GAS TEST			₿ Open Flow		OIL TEST -	Flow :	□ Pumi)	
	SSURE Sur							OF TEST 48	hrs
SHUT-IN PRE	SSURE Sur					DORA	HOIV	or illar	ms
OPEN FLOW		Oil fpd 6	NGL bpd	_ bpd	Water bpd			URED BY □ Orifice	□ Pilot
Walter State	mon	normal.	TVON	POTTO					
LITHOLOGY/	TOP	BOTTOM	TOP DEPTH IN FT	BOTTO		DOCK TV	DE AME	DECORD OUA	TTTTALAND
FORMATION	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	MD	DEPTH IN MD				RECORD QUAN TER, BRINE, OIL	Carried States of the Control of the
Clay	0	10	0	IVID	THEOLIT	CID (I'IC	SIIWA	EK, BIGIVE, OIL	, OA3, H23, ETC)
Sd/Sh	10	1952	1						
Little Lime	1952	1966	-					-1	
Sd/Sh	1966	2012						-	
Big Lime	2012	2193				-			
Injun	2193	2218						RE	CEIVED
Sd/Sh	2218	2838						Office of	Oil and Gas
5th Sand	2838	2846	1-						CO OIN CIAS
Sd/Sh	2846	3035						DEC	0 1 2014
T.D.	3035							Litele	V 1 6019
								M/V/Da	
							г	TO THE	partment of
							-	nvironnie	ntal Protection
Please insert ad	ditional pages a	s applicable.		-					
D :::: G	ctor Waco Oil &	Gas							
Address 1595 U	S 33		City	Glenville		State	w	Zip 26351	
Address 1000 0	.0. 00		City	Q.G.T.T.		_ State		Zip	
Logging Compa	any Weatherford	Wireline Servi	ices						
Address 7777 N	orth River Avenue		City	Weston		_ State	wv	Zip 26452	1
		Mari Canian							
Cementing Con	npany Universal	vveii Service		D -11-			1447	00004	
Address 14 Sew	er Plant Road		City	Buckhanno	on	_ State	W	Zip 26201	-
Stimulating Cor	mnany Univers	al Well Service)						
Address 14 Sew	npuny		City	Buckhanno	on	State	WV	Zip_26201	
	ditional pages a	s applicable.							
7	1								
Completed by	ROBERT	R. JONES	II .		Telephone	304	-462	-5758	
Signature			Title	PRESIDE	NT		Date _	12-1-2014	N.
Submittal of Hy	draulic Fracturi	ng Chemical I	Disclosure Infor	mation	Attach copy of	FRACE	OCUS	Registry	