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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_ 021 _ 05	780 County	Gilmer	Dis	trict Glenville		
Quad Burnsville		ame Marshall # 6-A				
Farm name I. L. Morris			Wo	ell Number Mar	shall 6-A	
Operator (as registered with t	he OOG) Horizon	Energy Corporation	on			1
Address Sand Fork Road	Box 111	City Sand Fork		State WV	Zip	26430
As Drilled location NAD 8 Top he Landing Point of Cu Bottom He Elevation (ft) 1004.9'  Permit Type Deviated Type of Operation Convert Well Type Brine Disposal Type of Completion Single Drilled with Cable Se	ole Northing rve Northing rve Northing ole Northing  GL Typ  Horizontal  t Deepen  GBM Gas  GBM Gas  Rotary	□ Horizontal 6A  Drill □ Plug Bac  Oil □ Secondary R  luids Produced ■ Bac	Easting Easting Easting Existing  Vertical Redrillin ecovery Solut	Type of Report  Depth Type  g	□ Interim □ Deep □ Stimula orage □ C	#Final  Shallow  ate  Other
Production hole		ei Dillie				
Date permit issued06/23		rilling commenced		_ Date drilling		07\17/2014
Date completion activities be	gan 07/24/20	014 Date co	ompletion activiti	es ceased	07/24/201	4
Verbal plugging (Y/N)	Date permiss	sion granted		Granted by		-
Please note: Operator is requ	ired to submit a plug	ging application with	in 5 days of verb	al permission to p	olug	
Freshwater depth(s) ft		Open m	ine(s) (Y/N) dept	hs		
Salt water depth(s) ft		Void(s)	encountered (Y/N	N) depths		
Coal depth(s) ft			s) encountered (Y	//N) depths		
ls coal being mined in area (\	′/N)	No		RECEIVED	)	
				e of Oil and		wed by:
				DEC <b>0</b> 1 2014		<del></del>

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WR-35 Rev. 8/23/13 \_Well number\_Marshall 6-A Farm name\_I. L. Morris API 47-021 - 05780 New or Used Grade Basket Did cement circulate (Y/N) **CASING** Casing Hole \* Provide details below\* STRINGS Conductor wt/ft Size Size Depth Depth(s) Surface Coal Intermediate 1 17 717 Yes 8 3/4 7" new Intermediate 2

Intermediate 3	<u> </u>		1			ŀ		1	
Production	6.25	4 1/2	2918	new	1	0.5			no
ubing									
acker type and d	epth set				•				
omment Details									•
Omment Details									
CEMENT	Class/Type	Number	Slurry		ricld	Volume	Ceme		woc
DATA	of Cement	of Sacks	wt (ppg	) (fi	. <sup>3</sup> /sks)	(ft. <sup>3</sup> )	Top (M	<u>ID)</u>	(hrs)
Conductor									<u> </u>
iurface									İ
Coal									
ntermediate I	Type 1	125		Í					8 hrs.
ntermediate 2									
ntermediate 3									
Production	Strong lite 150	90							
Tubing									
Cick off depth Check all wire	(ft)		■ density	deviate	ed/direction	onal <b>A</b> ir	nduction		 
		•	aresistivity	<b>≜</b> gamma			emperature	□sonic	:
Well cored	Yes 🗆 No	Conventiona	l Sidew	all	W	ere cuttings	collected 🗆	Yes 🗆	No
DESCRIBE T	HE CENTRALIZE	ER PLACEMEN	T USED FOR	EACH CA	SING ST	ΓRING 41	/2 casing centralize	rs #2,#5,#15;	20
			· · · · · · · · · · · · · · · · · · ·						:
									:
								REC	FIVED
							Offi	ce of (	Oil and Ga
VAS WELL (	COMPLETED AS	SHOT HOLE	□ Yes 🛔 1	No DE	TAILS				en and G
		-						<del>- DFO (</del>	1 2014
VAS WELL C	COMPLETED OPI	EN HOLE?	Yes A No	רבות	AII.S				1 2014
	John Build Off	IIVUL: U	.63 8 140	יוטט			IAA	70	;
	<del>- · · · · · · · · · · · · · · · · · · ·</del>							<del>. nebi</del>	irtment or
'ERE TRACI	ERS USED DY	s 🖪 No 🧵	TYPE OF TR	ACER(S) I	JSED		Enviro	nment	tal Protect
	· ·	· ·							in mass

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API 47- 021 \_ 05780 Farm name I. L. Morris Well number Marshall 6-A

## PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	7/24/2014	2812	2822	16	5th Sand
2	7/24/2014	2052	2204	16	Injun

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	07/24/14	26.7	2100	1624	1514	354	156	342,502
2	07/24/14	27.1	2173	1300	725	461	206	336,173
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								~··
							D=0	
							HEC	LIVED
-						0	ffice of (	EIVED Dil and Gas
			·				DEC 0	1 2014
							<u> </u>	1
						V	VV Dop	artment of all Protection
						Env	ronmen	al Protection
		_						ion i iorgenion

Please insert additional pages as applicable.

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	05780	Farm	name I. L. Mo	orris		Well	numbe	marshall 6	-A
PRODUCING	FORMATION	<u>(S)</u>	DEPTHS						
5 Th Sand			2812	_ TVD	2822	MD			
Injun			2052	_	2204				
				-					
lease insert ac	dditional pages	as applicable.			(*************************************	_			
GAS TEST	□ Build up	□ Drawdown	■ Open Flow		OIL TEST	Flow t	) Pump	р	
HUT-IN PRE	SSURE Sur	face 410	psi Botte	om Hole	psi	DURA	TION (	OF TEST 48	hrs
OPEN FLOW	Gas 360 men	Oil fpd 5	NGL bpd	_ bpd	Water bpd	GAS N	MEASU	URED BY  □ Orifice	□ Pilot
	mon	normos.	man						
ITHOLOGY/	TOP	BOTTOM	TOP	BOTTON		nocu =	DE 411	DEGCED TO	And desired
ORMATION	DEPTH IN FT	DEPTH IN FT						RECORD QUAN	
Clay	NAME TVD	TVD	MD	MD	TYPE OF FL	UID (FRE	SHWAT	ER, BRINE, OIL	, GAS, H <sub>2</sub> S, ETC)
Sd/Sh	0		0		-				1
	10	1926							
Little Lime	1926	1940							
Sd/Sh	1940	1990	-						
Big Lime	1990	2190						BEC	THUED
Injun	2190	2204						Office of	4IVED
Sd/Sh	2204	2810						-1100 01	ull and G
5th Sand	2810	2820						.050	
Sd/Sh	2820	3021						DEC	1 2014
T.D.	3021								
								WV Dena	urtment of
							En	/ironmont	annent of
-								. ormen	al Protect
		c applicable					_		-
ease insert add	ditional pages a	s applicable.							
		U.							
rilling Contrac	ctor Waco Oil &	U.	City	Glenville		C	<b>100</b> /	7: 26251	
	ctor Waco Oil &	U.	City	Glenville	·	_ State	w	Zip_26351	
illing Contraction   1595 U.	etor Waco Oil & S. 33	Gas		Glenville		_ State	w	Zip <u>26351</u>	-
illing Contraction of the contra	etor Waco Oil & S. 33	Gas	ces	Glenville					
illing Contrac Idress 1595 U. gging Compa Idress 7777 No	Waco Oil & S. 33  My Weatherford orth River Avenue	Gas Wireline Servi					w	Zip 26351 Zip 26452	
illing Contract dress 1595 U. gging Compa dress 7777 No menting Com	etor Waco Oil & S. 33  My Weatherford Onth River Avenue Many Universal	Gas Wireline Servi	ces						
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illing Contract Idress 1595 U. Idress 7777 No Idress 7777 No Idress 14 Sewe Idress 14 Sewe Idress 1595 U. Idress 14 Sewe Idress 1695 U. Idres	S. 33  My Weatherford orth River Avenue  Apany Universal or Plant Road  Apany Universal or Plant Road	Gas Wireline Servi	ces City	Weston	4,	_State	w	Zip 26452	
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