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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 - 05777 County Gilmer	District Glenville
	hall # 2-A Field/Pool Name
Farm name I.L. Morris	Well Number Marshall 2-A
Operator (as registered with the OOG) Horizon Energy C	corporation
Address Sand Fork Road Box 111 City Sa	nd Fork State WV Zip 26430
As Drilled location NAD 83/UTM Attach an as-drille Top hole Northing Landing Point of Curve Northing Bottom Hole Northing	Easting
Elevation (ft) 1049.6' GL Type of Well	■New □ Existing Type of Report □Interim ■Final
Permit Type Deviated Horizontal Horizontal	ntal 6A 🗆 Vertical Depth Type 🖂 Deep : 🗂 Shallow
Type of Operation Convert Deepen Drill	
Well Type □ Brine Disposal □ CBM # Gas # Oil □ Se	condary Recovery Solution Mining Storage Other
	aced Brine BGas - NGL BOil - Other
Drilled with Cable Rotary	
Drilling Media Surface hole Air Mud Fresh War Production hole Air Mud Fresh Water Brin Mud Type(s) and Additive(s)	
Date permit issued 06/23/2014 Date drilling comm	menced 10/22/2014 Date drilling ceased 10/26/2014
Date completion activities began 11/11/2014	Date completion activities ceased 11/11/2014
Verbal plugging (Y/N) Date permission grante	
Please note: Operator is required to submit a plugging applic	ation within 5 days of verbal permission to plug
Freshwater depth(s) ft	Open mine(s) (Y/N) depths
Salt water depth(s) ft	Void(s) encountered (Y/N) depths
Coal depth(s) fl	Cavern(s) encountered (Y/N) depths
Is coal being mined in area (Y/N)	
	RECEIVED Reviewed by:
	Office of Oil and Gas

DEC 0 1 2014

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API 47- 021	_ 05777	Farm n	ame_I.L. Morr	is		Wel	l number_Ma	arshall 2-A	
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		Basket Depth(s)		t circulate (Y/N) details below*
Conductor									
Surface									
Coal									
Intermediate I	8 3/4	7"	717	new		17			Yes
Intermediate 2									
Intermediate 3									
Production	6.25	4 1/2	2958	new		10.5			no
Tubing	1				1	-			
Packer type and d	epth set		<u> </u>	1	1				
Comment Details			-						
CEMENT DATA	Class/Type of Cement	Number of Sack			rield 1 ³/sks)	Volume (ft ²)	Cem- Top (!		WOC (hrs)
Conductor									
Surface									
Coal		<u> </u>							
Intermediate I	Type 1	225							8 hrs.
ntermediate 2									
intermediate 3									
Production	Strong lite 15	0 90				-			
Tubing						-			
-	tion penetrated cedure			Loggers T Plug back		74			
Kick off depth	(前)								
Check all wire	line logs run	■ caliper ■ neutron	-		ed/directi a ray		iduction emperature	□sonic	
Well cored	Yes 🗆 No	Conventi	onal Side	wall	w	ere cuttings	collected c	Yes a	No
DESCRIBE TI	HE CENTRALI	ZER PLACEM	ENT USED FO	R EACH CA	ASING S	TRING 41	2 casing centralize	ers #2,#5,#15,#	20
WAS WELL C	COMPLETED A	AS SHOT HOLE	Yes A	No DE	TAILS			RECE	IVED
WAS WELL C	COMPLETED C	PEN HOLE?	□Yes ■ N	o DET/	AILS _		Offi	ce of ()	il and Ga
VERE TRACE	ERS USED 0	Yes 8 No	TYPE OF T	RACER(S) I	JSED			DEC 0	2014
				•			ŴΛ.	/ Denni	tment of
							Enviro	nments	l Protecti

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API 47- 021 - 05777 Farm name I.L. Morris

_Well number_Marshall 2-A

PERFORATION RECORD

Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
11/11/2014	2852	2862	16	5th Sand
11/11/2014	2202	2224	16	Injun
	11/11/2014	Perforation date MD ft. 11/11/2014 2852	Perforation date MD ft. MD ft. 11/11/2014 2852 2862	Perforation date MD ft. MD ft. Perforations 11/11/2014 2852 2862 16

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	11/10/14	26.9	1971	872	1789	326	108	214277
2	11/10/14	27.2	1573	1834	908	377	144	214452
	}							
		-						
			· · · · · · · · · · · · · · · · · · ·				RECE	VED and Gas
						Ciff	Ce of Qi	
			-					
							DEC 01	
						W	Denor	
Please	insert addition	nal pages as ap	oplicable.			Enviro	nmental	nent of Protection

								Page 4 of 4
API 47- 021	05777	Farm	name I.L. Mo	rris		Well nu	mber Marshall 2-A	4
PRODUCING	FORMATION	<u>(S)</u>	<u>DEPTHS</u>					
5 Th Sand			2852	TVD	2862	MD		
Injun			2202	_ 110	2224	IVID		
		_						
Please insert ac	dditional pages	as applicable.		-		-		
GAS TEST	□ Build up (□ Drawdown	■ Open Flow		OIL TEST 0	Flow D	ump	
SHUT-IN PRE	SSURE Sur	face360	_psi Bott	om Hole_	psi	DURATIO	ON OF TEST 48	hrs
OPEN FLOW	Gas 360 me	fpd 6	NGL bpd	_ bpd	Water bpd	GAS ME	ASURED BY	Pilot
LITHOLOGY/ FORMATION	TOP DEPTH IN FT	BOTTOM DEPTH IN FT			FT DESCRIBE		AND RECORD QUANT	
Clay	NAME TVD	TVD 10	MD n	MD	TYPE OF FL	UID (FRESH	WATER, BRINE, OIL, O	GAS, H ₂ S, ETC)
Sd/Sh	10	1958	0					-
Little Lime	1958	1960						-
Sd/Sh	1960	2100					DEC	
Big Lime	2100	2178					HE(FIVED
Injun	2178	2224					Office of	Oil and Ga
Sd/Sh	2224	2848		77				-
5th Sand	2848	2861			-		DEC	0 1 2014
	0004	3075						
Sd/Sh	2861						WV Den	artmont of
Sd/Sh T.D.	3075							GELECTE ()
							Environmen	tal Protect
T.D.	3075						Environmen	tal Protect
T.D.	3075 ditional pages a ctor Waco Oil &		City	Glanvilla		Q M		tal Protoct
T.D. lease insert addrilling Contract ddress 1595 U.s.	3075 ditional pages a ctor Waco Oil & S. 33	Gas	City	Glenville		_State _W		tal Protect
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rilling Contracted dress 1595 U.s.	3075 ditional pages a ctor Waco Oil & S. 33	Gas		Glenville		State W	V Zip <u>26351</u>	tal Protect
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