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

API 47 - 103 _ 1632	County WETZEL	- Dis	strict GREEN	
Quad CENTERPOINT 7.5'	Pad Name G.V. F	REILLY Fie	eld/Pool Name	STRINGTOWN
Farm name WV PUBLIC LANDS			ell Number N-1	
Operator (as registered with the OO	LLO ENEDOVILLO			1000
Address 5260 DuPONT ROAD	City PAR	RKERSBURG	State WV	Zip <u>26101</u>
As Drilled location NAD 83/UTN Top hole	Attach an as-drille Northing 4,371,259 M	d plat, profile view, and d Easting	eviation survey 528,313 M	
Landing Point of Curve	Northing			
Bottom Hole	Northing	Easting	3	
Elevation (ft) 1,445' GL	Type of Well	□New Existing	Type of Repor	rt □Interim ■Final
Permit Type Deviated	Horizontal Horizon	tal 6A Vertical	Depth Type	□ Deep ■ Shallow
Type of Operation □ Convert □	Deepen 🗆 Drill 🗆	Plug Back Redrillir	ng 🗆 Rework	■ Stimulate
Well Type □ Brine Disposal □ C	BM □ Gas □ Oil ■ Sec	ondary Recovery Solu	tion Mining 🗆 S	Storage Other
Type of Completion ■ Single □ Morilled with □ Cable ■ Rotary Drilling Media Surface hole ■ Production hole ■ Air □ Mud				□ Other ud ■ Fresh Water □ Brine
Mud Type(s) and Additive(s) N/A	ETICSI WATER EDITION			
Date permit issued10/25/13	Date drilling com	mencedN/A	Date drillin	g ceasedN/A
Date completion activities began	11/21/13	_ Date completion activi	ties ceased	11/21/13
Verbal plugging (Y/N)		d	Granted by	
Please note: Operator is required to Freshwater depth(s) ft Salt water depth(s) ft	o submit a plugging applic None None	Open mine(s) (Y/N) dep Void(s) encountered (Y	oths	DDC 27 2013
Coal depth(s) ft	None	Cavern(s) encountered ((Y/N) depths vi	VV Department of
Is coal being mined in area (Y/N)	N			rommental Protection
13 coar being mined in area (1714)				Reviewed by:

WR-35 Rev. 8/23/13

API 47- 103	_ 1632	Farm na	me_WV PUB	LIC LAND	<u>s</u>	Well nur	mber_ N-19	
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Bask Dept		Did cement circulate (Y/ N) * Provide details below*
Conductor								
Surface		8 5/8"	706'	Existing				Existing
Coal						"		
Intermediate 1	_							<u> </u>
Intermediate 2								
Intermediate 3								
Production	-	4 1/2"	3395.9'	Existing				Existing
Tubing								
Packer type and de	epth set							
Comment Details								
CEMENT DATA	Class/Type of Cement	Numbe of Sack		,	rield t ³ /sks)	Volume (ft 3)	Cement Top (MD	
Conductor								
Surface	Existing	295						
Coal								
Intermediate 1								
Intermediate 2								
Intermediate 3								
Production	Existing	300				_		
Tubing								
Drillers TD (ft Deepest forma Plug back pro Kick off depth	ation penetrated ocedure N/A	Gordon		Plug back	TD (ft) 3386 to (ft) N/A			
Check all wire	eline logs run	□ caliper □ neutron	□ density□ resistivity		ted/directions ta ray		ection perature	□sonic
Well cored	⊐ Yes 💄 No	Conventi	ional Side	ewall	W	ere cuttings co	llected =	Yes □ No
DESCRIBE T	HE CENTRAI	LIZER PLACEM	ENT USED FO	OR EACH C	ASING ST	TRING		
WAS WELL	COMPLETED	AS SHOT HOL	E □ Yes ■	No D	ETAILS			
WAS WELL	COMPLETED	OPEN HOLE?	□ Yes 🛔 🗎	No DET	TAILS _			
WERE TRAC	CERS USED	□ Yes ■ No	TYPE OF	TRACER(S)	USED			

API 47- 103 _ 1632 Farm name WV PUBLIC LANDS Well number N-19

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	11/21/13	3352'	3356'	16	Gordon
1	Existing	3326'	3356'	120	Gordon
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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	11/21/13		2284	1977	1870	20,000	407	
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Please insert additional pages as applicable.

WR-35 Rev. 8/23/13 Farm name WV PUBLIC LANDS Well number N-19 API 47- 103 _ 1632 **DEPTHS** PRODUCING FORMATION(S) 3326'-3356' Gordon TVD MD Please insert additional pages as applicable. OIL TEST □ Flow □ Pump □ Build up □ Drawdown □ Open Flow **GAS TEST** DURATION OF TEST _____hrs Bottom Hole_____psi Surface ____psi SHUT-IN PRESSURE NGL Water Oil GAS MEASURED BY OPEN FLOW Gas mcfpd _____ bpd ____ bpd bpd □ Estimated □ Orifice □ Pilot TOP **BOTTOM** TOP **BOTTOM** LITHOLOGY/ DESCRIBE ROCK TYPE AND RECORD QUANTITYAND DEPTH IN FT DEPTH IN FT DEPTH IN FT DEPTH IN FT **FORMATION** TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H2S, ETC) MD MD NAME TVD See original Well Record 0 0 Please insert additional pages as applicable. Drilling Contractor _____ State ____ Zip _____ City __ Address Logging Company Appalachian Well Surveys City Cambridge State OH Zip 43725 Address 4973 Skyline Drive Cementing Company State Zip _____ _ City __ Address Stimulating Company Producers Service Corp. State OH Zip 43701 City Zanesville Address 109 South Graham Street Please insert additional pages as applicable.

Submittal of Hydraulic Fracturing Chemical Disclosure Information

Completed by_ Signature

Attach copy of FRACFOCUS Registry

Prepared for:

H G Energy



INVOICE #: 16035			
WELL NAME: GV Reilly #n-19			
STATE & COUNTY: WV/ Wetzel			_
TOWNSHIP/FIELD: Stringtown			
DATE of SERVICE: 11/21/2013			
CUSTOMER PO#			
Description	Notes	Amount	u
FLUID PUMP CHARGE 0-3000 PSI MIN CHARGE 4 HRS		1	
BLENDER CHARGE 0-10 BPM		1	
MILEAGE CHARGE PER UNIT ONE WAY	2 Units @ 70 Miles	0	
IC ACID 15%		300	_
PRO HIB II		0.5	
ACID DELIVERY		2	_
PRO CLA LOK (KCL SUBSTITUTE)		20	
PRO NE-21		10	(
PRO GEL 4		250	-
BUFFER I		50 50	_
BIO CLEAR 750		1	-
AP BREAKER		22	-
BXL-A		15	
BXL-10C		15	
SAND 20/40 ECONOPROP		200	
SAND DELIVERY / TON MILES		700	TI
DATA VAN		1	ST
Customer Approval:			