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



API 47 - 103 _ 1633	County WETZE	EL	District GREEN	
Quad CENTERPOINT 7.5'			Field/Pool Name	STRINGTOWN
Farm name WV PUBLIC LANDS				
Operator (as registered with the OO	HO ENEDOVII	_C		
Address 5260 DuPONT ROAD		RKERSBURG	State WV	Zip 26101
As Drilled location NAD 83/UTN Top hole	Northing 4,371,215 M		ting 528,331 M	
Landing Point of Curve	Northing		ing	
Bottom Hole	Northing	East	ing	
Elevation (ft) 1,438' GL	Type of Well	□New	Type of Repor	t □Interim ■Final
Permit Type ■ Deviated □	Horizontal Horizon	ntal 6A 💄 Vertical	Depth Type	□ Deep ■ Shallow
Type of Operation □ Convert □	Deepen 🗆 Drill 1	□ Plug Back □ Redri	lling □ Rework	■ Stimulate
Well Type ☐ Brine Disposal ☐ CI	BM □ Gas □ Oil 🛔 Se	condary Recovery 🗆 Se	olution Mining 🗆 S	torage Other
Type of Completion ■ Single □ M Drilled with □ Cable ■ Rotary	4ultiple Fluids Produ	uced □ Brine □Gas	□ NGL	□ Other
Drilling Media Surface hole ■ Arr □ Mud			nole ■ Air 🗆 Mu	d 📕 Fresh Water 🗆 Brine
Mud Type(s) and Additive(s) N/A				
Date permit issued10/25/13	Date drilling com	mencedN/A	Date drilling	ceased N/A
Date completion activities began	11/21/13	Date completion acti	vities ceased	11/21/13
Verbal plugging (Y/N) N	Date permission grante	ed	Granted by	
Please note: Operator is required to	submit a plugging applic		verbal permission to	PHECEIVED ce of Oil & Gas DEC 2.7 Not3
Freshwater depth(s) ft	None	Open mine(s) (Y/N) o	NAN dente	DEC 0 = N
Salt water depth(s) ft	None	Void(s) encountered (Y/N) depths	27 2013
Coar depth(s) it	N	Cavern(s) encountered	u (1/N) deputs)enam.
Is coal being mined in area (Y/N) _	IN		Environn	nent-Reviewed by:

Rev. 8/23/13 Farm name_WV PUBLIC LANDS _Well number_O-19 API 47- 103 -1633 Did cement circulate (Y/N) **CASING** Hole Casing New or Grade Basket * Provide details below* **STRINGS** wt/ft Size Size Depth Used Depth(s) Conductor Surface 8 5/8" 710.85 **Existing** Existing Coal Intermediate I Intermediate 2 Intermediate 3 Production 4 1/2" 3566' Existing Existing Tubing Packer type and depth set Comment Details CEMENT Class/Type Yield WOC Number Slurry Volume Cement of Cement of Sacks (ft 3/sks) (Ω^2) Top (MD) DATA wt (ppg) (hrs) Conductor Surface Existing 290 Coal Intermediate I Intermediate 2 Intermediate 3 Production Existing 300 Tubing Drillers TD (ft) 3656' Loggers TD (ft) 3641' Deepest formation penetrated Gordon Plug back to (ft) N/A Plug back procedure N/A Kick off depth (ft) Check all wireline logs run □ caliper □ density □ deviated/directional □ induction □ neutron □ resistivity □ gamma ray □ temperature □sonic Well cored □ Yes ■ No Conventional Sidewall Were cuttings collected ■ Yes □ No DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING WAS WELL COMPLETED AS SHOT HOLE □ Yes 📱 No DETAILS WAS WELL COMPLETED OPEN HOLE? DETAILS □ Yes ■ No TYPE OF TRACER(S) USED _____ WERE TRACERS USED □ Yes ■ No

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	Existing	3495'	3502'	35	Gordon
1	Existing	3506'	3517'	66	Gordon
		<u>. </u>			
	_				

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	10	2627	2158	2571	11,000	377	
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								-
		-0-						

Please insert additional pages as applicable.

WR-35 Rev. 8/23/13

API 47- 103	_ 1633	Farm	name WV PUE	BLIC LANI	DS	Well numbe	er_O-19	
PRODUCING:	FORMATION(<u>(S)</u> .	<u>DEPTHS</u>					
Gordon				_TVD	3494'-3534'	MD		
				·				
Please insert ad	ditional pages a	as applicable.						
GAS TEST	□ Build up	Drawdown	□ Open Flow	(OIL TEST 🗆 1	Flow Pum	p	
SHUT-IN PRE	SSURE Surf	face	_psi Botto	m Hole	psi	DURATION	OF TEST	hrs
OPEN FLOW	Gas mc			_ bpd _		GAS MEAS □ Estimated	URED BY □ Orifice	□ Pilot
LITHOLOGY/ FORMATION	TOP DEPTH IN FT	BOTTOM DEPTH IN FT	TOP DEPTH IN FT	BOTTOM DEPTH IN I		ROCK TYPE AN	D RECORD QUAN	TITYAND
	NAME TVD	TVD	MD	MD	TYPE OF FL		TER, BRINE, OIL,	GAS, H ₂ S, ETC)
	0		0			See ong	inal Well Record	
		1						
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		<u> </u> -						
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Please insert ad	lditional pages a	as applicable.			<u>I</u> .			
Drilling Contra	ctor							
Address						State	Zip	
Logging Comp	any							
Address						State	Zip	
Cementing Cor			City			State	Zip	
Stimulating Co							_ ,	
Address 109 So	uth Graham Stree	t	City	Zanesville	-	State OH	Zip 43701	
Please insert ad	Iditional pages	as applicable.						
Completed by	Koser	Heldm	An		Telephone	420	1107	
Signature		910	Title 💆	perotion	s Mg	Date	11/26/13	·
Submittal of H	/ ydraulic Fractu	ring Chemical	Disclosure Info	rmation	Attach copy of	f FRACFOCU	JS Registry	

Prepared for:

H G Energy



Notes Amount 1 1 2 3 0 70 Miles 140 300 0.5	G
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300 0.5	C
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