Rev. 8/23/13

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

API 47 - 087 - 04018W County Roane	District Curtis
D:- (0500	Field/Pool Name
Farm name Monk	Well Number #1
Operator (as registered with the OOG) Longhorn Hydroca	arbons LLC
Address 3152 Parkway City Pig	eon Forge State TN Zip 37863
As Drilled location NAD 83/UTM Attach an as-drille	ed plat, profile view, and deviation survey
Top hole Northing	
Landing Point of Curve Northing	
Bottom Hole Northing	Easting
Elevation (ft) 710 GL Type of Well	□New ■ Existing Type of Report □Interim ■Final
Permit Type Deviated Horizontal Horizontal	ntal 6A
Type of Operation Convert Deepen Drill	□ Plug Back □ Redrilling □ Rework ■ Stimulate
Well Type □ Brine Disposal □ CBM □ Gas ■ Oil □ Sec	condary Recovery Solution Mining Storage Other
-	
	aced Brine Gas NGL Oil Other
Drilled with □ Cable □ Rotary	
Drilling Media Surface hole □ Air □ Mud □Fresh Wa	ater Intermediate hole
Production hole □ Air □ Mud □ Fresh Water □ Brine	
Mud Type(s) and Additive(s)	
	
Date permit issued07/06/2010 Date drilling comm	menced A Date drilling ceased A
Date completion activities began <u>57/05/2010</u>	Date completion activities ceased 67/(1/20/0
Verbal plugging (Y/N) Date permission granted	
!	
Please note: Operator is required to submit a plugging applic	eation 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) ft	Cavern(s) encounter (Section 1) Cavern(s) encounter (Section 1
Is coal being mined in area (Y/N)	Office of Oil & Gas
	Reviewed by:
	OCT 2 2 2014

Page Z of WR-35 Rev. 8/23/13 API 47- -Farm name_ Well number **CASING** Casing New or Grade Basket Did cement circulate (Y/N) **STRINGS** Size Size Depth Used wt/ft Depth(s) * Provide details below* Conductor Surface Coal Intermediate 1 Intermediate 2 Intermediate 3 Production 4" 800' New j55 10.5 lbs Yes Tubing Packer type and depth set Comment Details Inserted 800' of 4" casing, cts, attempted gas gun stimulation 920', result was not good, no apparent stimulation. CEMENT Class/Type Number Slurry Yield Volume Cement WOC DATA of Cement of Sacks (ft 3/sks) wt (ppg) (Ω^2) Top (MD) (hrs) Conductor Surface Coal Intermediate 1 Intermediate 2 Intermediate 3 Production Class A 0' Tubing Drillers TD (ft) Loggers TD (ft) Deepest formation penetrated Plug back to (ft) Plug back procedure ___ Kick off depth (ft) □ deviated/directional Check all wireline logs run □ caliper □ density □ 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? □ Yes □ No DETAILS

TYPE OF TRACER(S) USED _____

WERE TRACERS USED □ Yes □ No

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API 47- 087 - 04018	Farm name Monk	Well number_#1

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
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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)
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Please insert additional pages as applicable.

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API 47- 087	04018	Farm	name_Monk			Well numb	er <u>#1</u>	
PRODUCING	FORMATION	<u>(S)</u>	<u>DEPTHS</u>					
				TVD		MD		
								
Please insert ac	dditional pages	as applicable.						
GAS TEST	□ Build up	□ Drawdown	□ Open Flow		OIL TEST	Flow Pum	ıp	
SHUT-IN PRE	SSURE Sur	face	_psi Botte	om Hole	psi	DURATION	OF TEST _	hrs
					Water bpd			
LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD			BOTTO DEPTH IN MD	FT DESCRIBE			
!	0		0	<u> </u>	TIPEOFFI	LOID (FRESHWA	TER, BRINE, U	IL, GAS, H ₂ S, ETC)
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Please insert ad	ditional pages a	s applicable.						
Orilling Contrac	ctor							
Address			City			State	7in	
							Zip	
ogging Compa	any					_		
Address			City			State	Zip	-
Cementing Com	npany						•	
Address			City			State	Zip	
Stimulating Con	npany							
			Citv		_	State	7in	
	ditional pages a	s applicable.						_
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completed by	- KI	الري		N •	Telephone	- XPJ-	201/ C	0/00
signature	41	-/-/-	Title _	'Vangi	ing Horrin	L/ Date_	<u> </u>	7 JUNY
ubmittal of H	draulic Fracturi	ng Chemical D		~	Attach copy of	FRACFOCUS	S Registry	′