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

API 47 051 01594	County MARSHA	ALL Dist	rict FRANKLII	N
Quad NEW MARTINSVILLE 7.	5' Pad Name GOUD	)Y Fiel	d/Pool Name	
Farm name PPG INDUSTRIES,		We	ll Number GO	UDY 10H
Operator (as registered with the OO	G) GASTAR EXPLOR	ATION USA, INC.		
Address 229 W MAIN STREET			State WV	Zip 26301
As Drilled location NAD 83/UTN Top hole Landing Point of Curve Bottom Hole	Northing 4,398,561.28	Easting Easting	viation survey 514,668.22 N/A 514,668.22	
Elevation (ft) 1239' GL	Type of Well	New Existing	Type of Report	□Interim ■Final
Permit Type   Deviated				
Type of Operation   Convert	Deepen Brill	Plug Back   Redrilling	: □ Rework	□ Stimulate
Well Type □ Brine Disposal □ CI	BM ■ Gas □ Oil □ Seco	ondary Recovery   Soluti	on Mining   St	torage   Other
Type of Completion	Air □ Mud □Fresh Wat			office of On and Gas SEP 2 6 701.7
				WV Doperancia - i Environmental Protecti-
Date permit issued11/29/2012		nenced 12/25/2012		ceased11/18/2014
Date completion activities began				
Verbal plugging (Y/N) N	_ Date permission granted		Granted by	
Please note: Operator is required to		ation within 5 days of verba	al permission to	
Freshwater depth(s) ft N/A (NON		Open mine(s) (Y/N) depti	18	N
Salt water depth(s) ft	N/A	Void(s) encountered (Y/N		N
Coal depth(s) ft	N/A	Cavern(s) encountered (Y	/N) depths	N
Is coal being mined in area (Y/N)_	Appro	red by: Ju	w Week	Reviewed by:

WR-35										Page 2 of 5
Rev. 8/23/13										
API 47- 051	01594		Farm name_	PPG INDU	ISTRIES	, INC	We	II number_GC	JUDY 10	)H 
CASING STRINGS	Hole Size	Cas Siz	sing	Depth	New or Used	Grade wt/ft		Basket Depth(s)		ent circulate (Y/ N) le details below*
Conductor	26"		20"	110'	NEW		54.5#/ft	N/A	Tiovia	Y
Surface						1	<u> </u>	- 147.1	+	•
Coal	1								<del> </del>	
ntermediate I			<u> </u>						+	
ntermediate 2	<del> </del>								+	
ntermediate 3	<del> </del>		<del></del>	<del> -</del>		<del>                                     </del>			+	
Production						<del>                                     </del>			+	
Tubing						<del>                                     </del>		<del></del>	<del></del>	
acker type and d	enth set						ļ			
CEMENT DATA	Class/Type of Cement	-	Number of Sacks	Slurry wt (ppg)		Yield 1 3/sks)	Volume	Cemo		WOC (hrs)
Conductor	CLASS "A" TYP	E 1	297	15.6		1.19	353	SF		12
Surface										
Coal										
ntermediate 1										
ntermediate 2					_					
ntermediate 3										
roduction										
Cubing										
- 111 10							•			RECEIVED Fice of Oil and Ga
Orillers TD (fl		CUEAC								
Deepest forma Plug back pro	tion penetrated	SUFACI	EMATERIAL		Plug back	10 (11)				SEP 2 6 2017
ring back pro	cedule 1471							· · · · · · · · · · · · · · · · · · ·		
	-				_	-			<u>V</u>	(√ <u>⊃opartment o</u> l ronmental Pro <b>tec</b>
Cick off depth	(ft) <u>N/A</u>								FUA	Otknow
			••	• •	,	****				
Check all wire	line logs run		-	density		ed/directi		induction	====i=	
		ı	neutron 🗆	resistivity	□ gamm	а гау	П	temperature	□sonic	
Well cored o	Yes No		Conventional	Sidewa	all	w	ere cutting	s collected	⊃Yes ■	No
							_			
DESCRIBE T	HE CENTRALI	ZER I	PLACEMENT	USED FOR	EACH C	ASING S	TRING N	VA		
			<del></del>			-				
WAS WELL	COMPLETED A	42 2 <i>1</i>	OT HOLE	¬Yes ■ N	No Di	ETAILS				
TIO WELL				- 140 @ 1						
										· ——————
VAS WELL (	COMPLETED C	PEN	HOLE? - N	es 🖷 No	DET	AILS				

WERE TRACERS USED □ Yes ■ No TYPE OF TRACER(S) USED \_

API 47- 051 _ 01594 Farm name PPG INDUSTRIES, INC Well number GOUDY 10H	
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## PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	N/A				
				<del>                                     </del>	
<b></b>	<del></del>			<del>                                     </del>	
				<del> </del>	
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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)
	N/A							
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								RECEIVED Cas
							Offic	9010
							I 64	- P U -
								/ Denettment of namerical Protection
							W	nmerital Protection
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	1							

Please insert additional pages as applicable.

API 47- 051	_ 01594	Farm	name PPG IN	DUSTRIES,	INC	Well nun	ber GOL	JDY 10H
PRODUCING N/A	FORMATION	<u>(S)</u>	<u>DEPTHS</u>	TVD		MD		
Tues				_ 100 _		MD 		
Please insert ad	lditional nages	as annlicable						
GAS TEST			□ Open Flow	O	IL TEST 🗆 F	low □ Pu	mp	
								SThrs
OPEN FLOW		Oil fpd	NGL bpd	bpd				BY ifice □ Pilot
LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD				RD QUANTITYAND INE, OIL, GAS, H₂S, ETC)
Surface Material	0	120	0	120	77.			ndstone), No reported fluids
							C	RECEIVED Gas
								SEP 2 6 7017
								W Dopartment of wironmental Protection
Please insert ad	ditional pages a	as applicable.						
Drilling Contra			CAVATING					
Address 56461			City	SHADYSIDE		_State_OI	H Zip	, 43947
Logging Comp	any							
Address			City			_State	Zip	-
Cementing Con Address 837 PH	npany BAKER I	HUGHES	City	CLARKSBUR	G	_State _W	V Zip	26301
Stimulating Co	mpany							
Address		and the second	City			_State	Zip	
Please insert ad	ditional pages a	is applicable.						
Completed by			72.57	alle Alle Alle	Telephone	724-749-83	38	
Signature	mattan	White	Title R	egulatory Analys	st	Dat	e 08/14/20	)1 <i>(</i>
Submittal of Hy	ydraulic Fractur	ing Chemical I	Disclosure Info	rmation A	Attach copy of	FRACFOC	US Regis	stry

## **Goudy 10H Cement Additives**

Surface: Class A + 3% CaCl + ¼ #per sack flake

Office of Chi and Gas
SEP 2 6 2017
WV Department of Environmental Protection

