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

Office of Oil & Gas

JAN 1 5 2015 District Freeman's Creek 47 - 041 _ 02573 County Lewis API Field/Pool Name Fink Storage Quad Vadis Pad Name Farm name M.C. Marsh ____ Well Number AW-90 Operator (as registered with the OOG) Dominion Transmission Inc. Zip 26301 Address 445 W Main St. City Clarksburg As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey Northing 4326388.90 Easting 528575.97 Top hole Landing Point of Curve Northing Easting Bottom Hole Northing Easting Elevation (ft) 1002.6 GL Type of Well □New ■ Existing Type of Report Interim Final Permit Type

Deviated

Horizontal

Horizontal 6A

Vertical ■ Shallow Depth Type □ Deep Type of Operation □ Convert □ Deepen □ Drill □ Plug Back □ Redrilling ■ Rework □ Stimulate Well Type □ Brine Disposal □ CBM □ Gas □ Oil □ Secondary Recovery □ Solution Mining ■ Storage □ Other Type of Completion ■ Single □ Multiple Fluids Produced Brine Gas NGL Oil Drilled with Cable □ Rotary Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine Production hole Air Mud □ Fresh Water ■ Brine Mud Type(s) and Additive(s) Brine Date permit issued 8/12/14 (Rework) Date drilling commenced 12/03/1900 (original)

Date drilling ceased 12/29/1900 (original) 10/27/2014 10/28/2014 Date completion activities began Date completion activities ceased Verbal plugging (Y/N) _____ Date permission granted Granted by Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug NO Open mine(s) (Y/N) depths Freshwater depth(s) ft NA NO Void(s) encountered (Y/N) depths Salt water depth(s) ft Coal depth(s) ft _____ 445-451 NO Cavern(s) encountered (Y/N) depths

NO

Is coal being mined in area (Y/N)

Reviewed by:

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API 47- 041	02573	-	me_M.C. Ma	rsh	1	Vell number	AW-90	
API 47-	- 02070	Farm na	me		\	veii number		
CASING	Hole	Casing		New or	Grade	Basket		ent circulate (Y/N)
STRINGS Conductor	Size	Size	Depth	Used	wt/ft	Depth(s)	+ Provid	de details below*
Surface				 				
Coal	7.875"	7"	1985'	existing				N
Intermediate 1	6.5"	5-1/2"	2076'	existing	K55, 17#/ft	-		Υ Υ
Intermediate 2				<u> </u>	i			
Intermediate 3								
Production	4.892"	3-1/2"	2270.5'	NEW	J55, 9.2#/ft			Y
Tubing								
Packer type and de	epth set							
CEMENT	circulated 3.5 bbls Class/Type	of cement on the 3.5" c		ту Ү	ield Volu		ement ement	WOC
DATA Conductor	of Cement	of Sack	s wt (p)	pg) (ft	³ /sks) (ft	<u>To</u>	p (MD)	(hrs)
Surface								
Coal							<u> </u>	
Intermediate 1								
Intermediate 2	<u></u>	105		 		91	urface	· · · · · · · · · · · · · · · · · · ·
Intermediate 3		100				31	unace	
Production	Class A	112/70	15.4/1	5.9 1.2	5/1.19 223	3.3 s	urface	168 hours
Tubing								
D.'11. TD (0)	22451		L		D (0) 2245i	I		
Drillers TD (ft) Deepest format Plug back production	tion penetrated	Gantz		Loggers T	to (ft)			
Kick off depth	(ft)							
Check all wire	line logs run	a caliper neutron	□ density □ resistivity			□ induction ■ temperature	e □sonic	:
Well cored	Yes A No	Convention	onal Side	wall	Were cutti	ngs collected	□ Yes ■	No
DB065:55	un on m	1780 DI 1001	NAT 1 1055 50	ND E 4 077 0 7	ODIO OTRICO	Controllege	2 4/2# Abov 4 =4 =1	hoo 1 at ton of first inite
		IZER PLACEME 6, 39, 42, 45, 48, 51, 54, 57, 6		OR EACH CA	ISING STRING	Centralizers ran on	1 3-1/2" tog: 1 at si	noe, 1 at top or first joint,
WAS WELL C	COMPLETED A	AS SHOT HOLE	. ■Yes □	No DE	TAILS 60 quarts	on 12/4/1940		
WAS WELL C	COMPLETED (OPEN HOLE?	■ Yes □ N	lo DETA	AILS 2270.5'-2345'	Rec Office of	eived Oil & G	
WERE TRACI	ERS USED 🗆	Yes 🖪 No	TYPE OF T	RACER(S) l	JSED	JAN 1		

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API 47- 041 - 02573	Farm name_M.C. Marsh	Well number_AW-90	

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
					!
	· · · · · · · · · · · · · · · · · · ·				
				<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)
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	<u> </u>		-				Receiv	ed
L	L						oo of Oil	

Please insert additional pages as applicable.

Office of Oil & Gas

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API 47- 041	_ 02573		Farm	_{name} M.C. N	Marsh		Well num	ber_AW-90	
PRODUCING I	FORMATIC)N(S)		<u>DEPTHS</u>					
Gantz					TVD	2296-2323	MD		
Odniz.			 .		1 V D		NID		
									ł
			·						
Please insert ad	ditional page	es as	applicable.						
GAS TEST	□ Build up	o I	Orawdown	□ Open Flor	w	OIL TEST	Flow 🗆 Pu	mp	
SHUT-IN PRE	SSURE S	Surfac	e	psi Bo	ttom Hole	psi	DURATIO	OF TEST	hrs
OPEN FLOW			Oil I	NGI bpd	bpd	Water bpd	GAS MEA	SURED BY	e pilot
LITUOLOGY/	ТОР		воттом	ТОР	вотто	м			
LITHOLOGY/ FORMATION	DEPTH IN I		DEPTH IN FT	-		I FT DESCRIBI	F POCK TVPF A	ND RECORD (NI LA NTITVA ND
I OKIVIA I ION	NAME TV		TVD	MD	MD MD				OANTH FAND E, OIL, GAS, H₂S, ETC)
	0		110	0	1		LOID (I KESIIV	ATEIC, BIGINE	, 0.0, 0.0, 1.20, 0.0)
Pittsburgh Coal	445		451	445	451				
Dunkard Sand	900		925	900	925				
Gas Sand	1227		1287	1227	1287				
Salt Sand	1314		1390	1314	1390				
Maxon	1724		1800	1724	1800				
Little Lime	1865		1883	1865	1883				
Big Lime	1895		1959	1895	1959				
Injun Sand	1959		2060	1959	2060				
Gantz Sand	2296		2322	2296	2322			gas at 2312'	Ţ
<u> </u>									
		_	·.	<u> </u>			<u> </u>		
Please insert ac	l Iditional pag	es as	applicable.		<u> </u>	<u> </u>			
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Drilling Contra		-			- Duekhonn		a \^^	/ ~:	İ
Address				Cı	ty Buckhann	ion	State	Zıp	
Logging Compa	anv Baker A	tias							
Address				Ci	ty Buckhann	ion	State _W	/Zip	
-					-		_		
Cementing Cor	npany <u>Hallib</u>	urton							
Address				Ci	ty Homer Ci	ty	State P	Zip _	
Stimulating Co	mnany NA								
Address				Ci	tv		State	Zip	
Please insert ad					·				
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Completed by Matthew Goralczyk						Telephor	ne 304-627-33	54	Received
Signature 90				Title	Engineer III		Dat	e 12/29/2014	Received ice of Oil & G
		-	Ü						
Submittal of Hy	ydraulic Fra	cturin	g Chemical	Disclosure In	formation	Attach copy	ofFRACFOC	US Registry	JAN 1 5 2015