WR-35 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 <u>47</u> - 41 _ 02	2670 County Lewis	Dis	_{trict} Freemans	Creek
Quad Big Isaac	Pad Name N/A		ld/Pool Name F	
Farm name Beecher J. & I	Betty E. Rhoades	We		
Operator (as registered with	the OOG) Dominion Trans	mission, Inc.		
Address 445 West Main S	St. City C	larksburg	State WV	Zip 26301
As Drilled location NAD Top h Landing Point of Co Bottom H	nole Northing 4330984.056 arve Northing N/A	Easting	538505.2745	
Elevation (ft) 1,117.33' Permit Type	GL Type of Well	□New	Type of Report	□Interim ■Final
		ontal 6A	Depth Type	□ Deep ■ Shallow
Type of Operation □ Conve	rt 🗆 Deepen 🗆 Drill	□ Plug Back □ Redrilling	Rework	□ Stimulate
Well Type Brine Disposa	l □CBM □Gas □Oil □S	econdary Recovery	on Mining A Sta	orage 🗆 Other
Type of Completion Sing			NGL 🗆 Oil	□ Other
Drilling Media Surface hold	e □Air □Mud □Fresh W			RECEIVED
Production hole Air			□Air □ ⊘ ∰	CO Bristo Waterd Grase
Mud Time(a) and Addition(a)				OCT 112013
Brine/Polymer system: S	alt, Xantham Gum, Soda	Ash. Bicarbonate of Soda	Citric Acid	001 2 2 2010
		,	W Chillip / Loid	V Department of
			Envir	onmental Protection
Date permit issued June 3		menced July 15, 2013	Date drilling o	ceased September 4, 2013
Date completion activities be	gan September 5, 2013	Date completion activities	_	
Verbal plugging (Y/N) N	Date permission grant	. N/A	Franted by	N/A
Please note: Operator is requi	ired to submit a plugging appli	cation within 5 days of verbal	permission to pl	lug
Freshwater depth(s) ft	185'	Open mine(s) (Y/N) depths		N/A
Salt water depth(s) ft	1,130'	Void(s) encountered (Y/N)		N/A
Coal depth(s) ft	275'-279'	Cavern(s) encountered (Y/I		N/A
Is coal being mined in area (Y	/N) No		, 	· · · · · · · · · · · · · · · · · · ·
				Reviewed by:

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API 47-41	02670	Farm name	Beecher J	. & Betty	E. Rho	ades We	ell number_AV	V-8945	
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	:	Basket Depth(s)	Did cement	circulate (Y/N)
Conductor		10-3/4"	218'	New	WOIL	N/A	N/A		details below*
Surface		8-5/8"	1218'	New		N/A	N/A		ting Casing ting Casing
Coal								LAIS	ung Casing
Intermediate 1		7"	1885'	New	K-	55/20#	N/A	Fyigh	ing Casing
Intermediate 2								LAIG	ing Casing
Intermediate 3								 	
Production		4-1/2"	2118'	New	K-5	5/11.6#	N/A	 	Y
Tubing	<u> </u>							 	<u> </u>
Packer type and d	lepth set						<u> </u>	<u> </u>	
CEMENT DATA Conductor	Class/Type of Cement	were existing casing stri Number of Sacks	Slurry wt (ppg)	Y	ield ³ /sks)	Volume	Ceme Top (M		WOC (hrs)
Surface	Existing								(iii3)
Coal	Existing								
Intermediate 1	Existing								
Intermediate 2 Intermediate 3									
Production									
Tubing	Class A	285	15.4 ppg	1.	19	280	Surfa	ce	24 Hrs
		<u></u>							
Plug back pro	2141' tion penetrated Fifty cedure Cleaned well out and drilled cement out to 2	to orginal TD of 2141', p	Pumped 5 bbls of ce	Loggers TD Plug back to ement, pulled u	o (ft) 210	00'			
Kick off depth	(A) N/A							MEGEN	/ED
Check all wirel			density resistivity	□ deviated			nduction emperature	OCT 11	_
Well cored DESCRIBE TH	Yes	Conventional	□ Sidewall		Wo	ere cuttings	collected = Environment	Yes N Infriente	tment of Reprotection
from 2049'-2069'	OMPLETED AS S		Yes 🗆 No	o DET	`AILS	Perforated stor	age zone, Gantz, wit	h 20' gun with 4	shots per foot
WAS WELL C	OMPLETED OPE	NHOLE? OY	es 🖪 No	DETAI	LS				
WERE TRACE	RS USED □ Yes	■ No TY	PE OF TRAC	CER(S) US	SED				

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API	47- 41	02670	Farm name_Beecher J. & Betty E. Rhoades	_Well number
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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	9/5/2013	2049'	2069'	80 shots	Gantz
				<u> </u>	
				1	
					
				 	
				 	
				 	
				 	
		<u>L</u>	L		

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	N/A	N/A	N/A	N/A	N/A	N/A	N/A TE	Nitrogen/other (units) NI/A Oil and Gas
							Office c	i Oil and Gas
							00	<u>112013</u>
							WV De	partment of
						E	nvironm	गाद्या Protection
	-							
					· · · · · · · · · · · · · · · · · · ·			

Please insert additional pages as applicable.

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API 47- 41	_ 02670		_ Farm	name Beecher	J. & Betty I	E. Rhoades	Well r	numbe	er_AW-8945	
PRODUCING	FORMAT	ION(S)		<u>DEPTHS</u>						
Gantz - Storage	e Formation	l	_	2,049'-2,069'	TVD	2,049'-2,069'	MD			
			_							
Please insert ac	Iditional na		— —							
GAS TEST	_	-	-	□ Open Flow		OU TEST -	Flan -	D		
SHUT-IN PRE			580 (Storage Press			OIL TEST		Pum		
OPEN FLOW	Gas	Surface			om Hole <u>~~</u>	(Storage Pressure) psi	DURAT	'ION (OF TEST	hrs
OI LIVI LOW	N/A	mcfpd	Oil N/A	NGL bpd N/A	_ bpd	Water N/A bpd			JRED BY □ Orifice	□ Pilot
LITHOLOGY/	ТОР	1	воттом	ТОР	BOTTO	М				
FORMATION	DEPTH IN		EPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN MD				RECORD QUA	
	9			0	IVID	TIPEOFF	LUID (FRES	HWA	EK, BRINE, OI	L, GAS, H2S, ETC)
Existing Storage Well		_								
		-								
									RE	CEIVED
		_							Office o	l Oil and Ga
									00	T 1 1 2013
lease insert add		•••								 1
Orilling Contract Address PO Box		ergy Sen	vices	0;+	Dallas			TV -		epertment o
				City	Dallas		State _	ix E	n¢ipc75320	Guiat Protec
ogging Compa ddress Rt. 4 Bo		iugnes A	ilas	City	Buckhanno	ın	04-4-	۱۸۸/	a. 26204	•
ementing Com		re Compl	lation and E				State		Zip _26201	<u> </u>
ddress PO Box		is Compi	euon and F		Dallas		State _`	ΥX	Zip 75397	,
timulating Con	nany N/A	\					544.0 _	-	Zip <u></u>	
ddress				City		<u>-</u>	State _		Zip	
lease insert add	itional pag	es as app	licable.				- -		r	
ompleted by	Jason S. Ha	arshbarge	er			Telephone	304-627-3	242		
ignature	Sylv	un		Title Te	chnical Spec	cialist III		ate 10)/9/13	