Page 1 of \$

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> - 59 - 0	2241 County MINGO	Dist	rict HARVEY		
Quad WILSONDALE		4	Field/Pool Name		
Farm name HUNTINGTO	N REALTY CORP	We			
Operator (as registered with	the OOG) TUG FORK DEVE	ELOPMENT			
Address 3930 BRANDY		TLETTSBURG	State KY	Zip 41129	
	hole Northing 99,7/	Easting	489,50	8.74	
Elevation (ft) 1229.7  (374.6)  Permit Type Deviate	GL Type of Well		Type of Report Depth Type	□Interim ■Final □ Deep ■ Shallow	
Type of Operation □ Conv	ert 🗆 Deepen 🗂 Drill 🖸				
Well Type   Brine Dispos	al CBM Gas Oil See	condary Recovery	on Mining 🗆 St	orage 🗆 Other	
Type of Completion Sir	gle   Multiple Fluids Produ	nced ABrine Gas	NGL 🗆 Oil	□ Other	
Charles in the Control of the	Rotary				
	ole		F	Received	
Date permit issued2	2/3/14 Date drilling com	menced8/13/1	M/ Date d <b>ril∤f¢ig</b> r	persof Oil Rol8ing	
Date completion activities	pegan11/9/14	_ Date completion activitie	s ceased	11/10/142015	
Verbal plugging (Y/N)	Date permission grante		Granted by	JOE 2 -	
Please note: Operator is re	quired to submit a plugging applic	ation within 5 days of verba	l permission to p	olug	
Freshwater depth(s) ft		Open mine(s) (Y/N) depth	ıs	N	
Salt water depth(s) ft	1500	Void(s) encountered (Y/N	N		
Coal depth(s) ft	NONE	Cavern(s) encountered (Y/	/N) depths	N	
Is coal being mined in area	(Y/N)N			Se- 9/10/15 Reviewed by:	

API 47- <u>59</u>	02241	Farm n	ame_HUNTIN	GTON REA	ALTY C	ORP_We	ll number <u> </u>	RC 1	
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		Basket Depth(s)		ement circulate (Y/N) vide details below*
Conductor	15	13 3/8	38	NEW	N	N 36			DRIVE PIPE
Surface					i		<del></del>		
Coal	12 1/4	9 5/8	320	NEW	1	N 26	290, 62		Y 10 BBL
Intermediate 1	8 3/4	7	<del>*</del>	NEW	,	N 19	373, 62		Y 13 BBL
Intermediate 2			<del></del>						
Intermediate 3									<del></del>
Production	6 1/4	4 1/2	3637	NEW	N	10.5			N N
Tubing									·····
Packer type and d	epth set		<del></del>	•					
CEMENT	Class/Type				/ield	Volume		nent	woc
DATA Conductor	of Cement DRIVE PIP	of Saci	s wt (pp	og) (ft	³/sks)	( <u>ft.²)</u>	Тор	(MD)	(hrs)
Surface	DRIVE PIP	<u> </u>							
Coal	"A"	115	45.6	.   .	1.20	138	CUID	FACE	10
Intermediate 1	"A"/LITE PO		15.6/9 5 15.6/9		0/1.84	400		FACE	72
Intermediate 2	A ZEITE FC	30/10	3 13.0/8	7.9 1.2	0/1.04	400	301	TOL	12
Intermediate 3									
Production	K BLEND	100	13.4		1.9	190	2/	\$00	72
Tubing	KBLEND	100	10.4	<u></u>	1.5	130			<del> </del>
•	a) 3871 ation penetrated accedure			Loggers T Plug back					
Kick off depth		a caliper	density	□ deviate			induction temperature	<b>■</b> son	ic
Well cored									
4 1/2 10 (g) 383/ TH/	W I EVERY BU					<del> </del>	<u> Un</u>	n H	21 2015
WAS WELL	COMPLETED	AS SHOT HOL	E □Yes ■	No DE	ETAILS				
WAS WELL (	COMPLETED	OPEN HOLE?	□ Yes ■ N	lo DET	AILS _				
WERE TRAC	ERS USED 1	Yes B No	TYPE OF T	RACER(S)	USED				

API 47- 59 - 02241 Farm name HUNTINGTON REALTY CORP Well number HRC 1

## PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	10/10/14	3570	3365	34	LOWER HURON
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				-	
				*******************************	
		-			
				<del></del>	

Please insert additional pages as applicable.

## STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stimulations Date	Ave Pump Rate (RPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proposit (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
10/24/14	74 MSCF	2400	3280	1209	0	0	1802 MSCF
			<b></b>				
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	-						
					-		
					-	ocoly80	٠ ط
							GAS GAS
		· · · · · · · · · · · · · · · · · · ·	<del>                                     </del>		- Office	Office 9	Our Comme
					M	∆∀ 28, 20°	\$ 1 SO12
	-					JUL	
	Date	Date Rate (BPM)	Date Rate (BPM) Pressure (PSI)	Date Rate (BPM) Pressure (PSI) Pressure (PSI)	Date Rate (BPM) Pressure (PSI) Pressure (PSI) ISIP (PSI)	Date   Rate (BPM)   Pressure (PSI)   Pressure (PSI)   ISIP (PSI)   Proppant (Ibs)	Date Rate (BPM) Pressure (PSI) Pressure (PSI) ISIP (PSI) Proppant (lbs) Water (bbls)

Please insert additional pages as applicable.

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API 47- <u>59</u>	_ 02241	Farm	<sub>name</sub> HUNTIN	IGTON F	REALTY COR	P_Well number	er_HRC 1	
PRODUCING 1	FORMATION(	<u>s)</u> .	<u>DEPTHS</u>					
LOWER HURN	ON		3578-3362	TVD	3578-3362	MD		
		-		_ 1 \D		IVID		
				_				
		<del></del> -		<del>-</del>		<del></del>		
		<del></del> .			<u>-,, </u>			
Please insert ad	ditional pages a	s applicable.						
GAS TEST	o Build up	Drawdown	<b>≜</b> Open Flow		OIL TEST o	Flow 🗆 Pum	р	
SHUT-IN PRE	SSURE Surf	ace 185	_psi Botto	m Hole	psi	DURATION	OF TEST 72 hrs	
OPEN FLOW					Water bpd			
LITUOLOGY/	TOD	воттом	TOD	DOTTO				
LITHOLOGY/ FORMATION	TOP DEPTH IN FT					POCK TYPE AN	D RECORD QUANTITYAND	
Oldvirtion	NAME TVD	TVD	MD	MD			TER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)	
FILL	0	32	0				ING REFUSE	
SAND AND SHALE	32	950						
SAND	950	1264		i		SHOW	OIL AND GAS	
SAND AND SHALE	1264	1428						
SALT SAND	1428	1542				BI	RINE 1500	
MAXOM	1542	1600						
SAND AND LIME	1600	1698					RED	
LITTLE LIME	1698	1742				BL	ACK LIME	
BIG LIME	1742	1910				w	HITE LIME	
INJUN	1910	1930				RED SA	ND AND SHALE	
SLATE	1930	2510						
COFFE SHALE	2510	2522						
BEREA	2522	2612				BROKEN	SAND WITH SHALE	
BROWN SHALE		2656						
	ditional pages a	••	_					
	ctor MID AMER	ICAN DRILLING			001100	- 104	40700	
Address PO BO	X 321		City	WILLIAM	SBURG	State KY	Zip <u>40769</u>	
Logging Compa	any NABORS						•	
Address PO BO	X 975682		City	DALLAS		State TX	Zind Sie ei Van	
					· · · · · · · · · · · · · · · · · · ·		Received Ass	
Address PO BO	npany NABORS	<u></u>	City	DALLAS		State TX	Zip //5/39/2018/2019	
\ <u>-</u>			City			State	MAP 2 8 2015	
Stimulating Co		<del></del>		DALLAC	<del></del>	<b>6</b> 4.4	Zip 75397-5682	
Address <u>PO BO</u> Please insert ad	ditional pages a	s applicable.	City	DALLAS	·	State	Zip	
Completed be-	W. D. CUBBED	GE			Talanhan	606 922 5087		
Completed by W. D. CUBBEDGE Signature Title OWNE					Telephone 606 922 5087  NER Date 5/25/15			
orgradure			1105 _			Date		

## CONTINUED FROM PAGE 4 HRC 1 59 02241 LITHOLOGY

	TOP	ВТМ
WHITE SLATE	2656	3354
LOWER HURON	3354	3570 BROWN SHALE GAS 3440, 3540
WHIT SLATE	3570	3682 TD

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MAY 28 2015
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Office of Oil 8 Gas

JUL 81 2015

Tug Fork Development

HRC-3

API Number: 47-4959224

Date: 4/8/15 - 4/9/15

The HRC-3 pit water was transferred to the HRC-1 pit for discharge, due to the fact there was not an appropriate discharge area around the location. State Inspector Jeremy James told us to transfer the pit fluids to the HRC-1 for discharge.

Aaron Hensley

Received
Office of Oil R. Gas
JUL 2 1 2015