Ohio Department of Natural Resource Division of Oil & Gas Resources Management 2045 Morse Rd, Building F2 Columbus, Ohio 43229

## **Plug Report**

Form 55: Revised 12/97

API Well Number:

## 34-111-2-4534-00-00

Well Owner:	ANTERO R	ESOURCES C	ORPORATION					Permit Issued:	1	10/14/2015
Lease Name:	KURTZ UN			v	Well No.	1H	_	Date Commenced	l: 1	11/28/2014
County: MONRO			Township: SEN					Date Completed:		0/00/00/5
Oriller. PA	ATTERSON DE	RILLING			Status	DR		Plug_Start: Plug _End:		9/29/2015 9/29/2015
					LTD			DNR Notified?:	·	Yes
Plugging Compan		RSON DRILLIN	16		DTD			Reason for Plug	ging: Plug-l	Back
ogging Company	<i></i>				- Tool	RTAF		PlugDescription	CMT	
Cement Manufact	or				Class	POOL		Clay/Cement Ti	ckets Rec:	Yes
Cement Contracto	or				Lat:		0.000000	Long	0.000000	
Clay Company					<del>-</del> .					-
		nal directiona								
String	gs fi		ND*				CON	DITION Ne	W	
Bot 100	Diam	_DC	ND*	ENGTH		et Dt	11/29/2		w	
Bot 100 String Comm	Diam ents Casir leight and ket	_DC	ND*	ENGTH eld connection		et Dt			w	
String Comm Condition, W Cement Basi	Diam ents Casir leight and ket	_DC	ND*  0 LE 26" casing w	veld connection		et Dt [		014		
String Comm Condition, W Cement Bask	Diam ents Casir /eight and ket	26 Top 108#	ND*  O LE  26" casing w	veld connection	ons.	2	11/29/2	014 ✓ WITNE	ESSED	
String Comm Condition, W Cement Basi CEMT_CON	Diam	26 Top  108#  0 DT_ ENERGY SE	ND*  O LE  26" casing w	veld connection	ons. ation	2 ECTOR	11/29/2	✓ WITNE	ESSED RIK	
String Comm Condition, W Cement Bask	Diam ents Casir /eight and ket  100 TOC  EXPRESS E	26 Top  108#  0 DT_ ENERGY SE	ND*  0 LE 26" casing w  ERVICES	veld connection  Dura	ation INSPE	2 ECTOR 0 WEI	11/29/2 R WILL	014 ✓ WITNE	ESSED RIK	
String Comm Condition, W Cement Bask	Diam	26 Top  108#  0 DT_ ENERGY SE	ND*  0 LE 26" casing w  ERVICES	veld connection	ation INSPE	2 ECTOF 0 WEI	11/29/2 R WILL	✓ WITNE	ESSED RIK .D 1.18	

		CONDITION	New	
ENGTH	Set Dt	11/28/2014		
		DRY NO FRI	ESHWAT	TER HIT)
Dur	ation	<u> ✓</u> W	/ITNESSI	ED
	INSPECTOR	WILLIAM ST	OLARIK	
SACKS	WEIG	нт	YIELD	
SACKS2	WEIG	НТ	YIELD	
		CONDITION		
ENGTH	Set Dt	_		
Dur	ation	\_ \_ \W	/ITNESSI	ED
	INSPECTOR	ERIC CONRA	VD	
SACKS	WEIG	нт	YIELD	
1				
SACKS2	WEIG	нт	YIELD	
	Dur SACKS SACKS2 Dur Dur	Duration  INSPECTOR  SACKS  WEIGH  SACKS  Duration  INSPECTOR  INSPECTOR  INSPECTOR  INSPECTOR	Duration  INSPECTOR WILLIAM ST  SACKS  WEIGHT  CONDITION  LENGTH  Set Dt  INSPECTOR ERIC CONRA	Duration WITNESS  SACKS WEIGHT YIELD  SACKS WEIGHT YIELD  CONDITION  LENGTH Set Dt  Duration WITNESS  WITNESS  WITNESS  CONDITION  LENGTH SET DT  WITNESS  WITNESS  CONDITION  LENGTH SET DT  WITNESS

Strings FLD	HL5*			CONDITION New	
Bot 18890 Diam	8.5 <b>Top</b> 0 <b>LE</b>	NGTH	Set Dt 10	/15/2015	
String Comments Casing Condition, Weight and Cement Basket	production borehole	e.			
Cement					
BOC 0 TOC	0 DT_CM	Dura	ation 3	<b>✓</b> WITNESSED	
CMT_CON			INSPECTOR W	YILLIAM STOLARIK	
CLASS_CMT:		SACKS	WEIGHT	YIELD	
Cement1		1			
CLASS_CMT2:		SACKS2	WEIGHT	YIELD	
Cement2					
Strings FLD	PRD*			CONDITION New	
Bot 18890 Diam	5.5 <b>Top</b> 0 <b>LE</b>	NGTH	Set Dt 10	/19/2015	
String Comments Casing					
Condition, Weight and	23# P-110 casing-c	casing shoe a	nd float collar rar	n, trigger toe sub set at 18	3,797'.
Cement Basket					
Comont					
Cement					
BOC 18890 TOC	0 DT_CM	Dur	ation		
BOC 18890 TOC  CMT_CON HALLIBURTO  CLASS_CMT: Light/Stand	ON ENERGY SERVIC	E		YILLIAM STOLARIK	41
CMT_CON HALLIBURTO	ON ENERGY SERVIC	E	INSPECTOR W	YILLIAM STOLARIK	41
CMT_CON HALLIBURTO	ON ENERGY SERVIC	E	INSPECTOR W	VILLIAM STOLARIK  13.5 YIELD 1.4	
CMT_CON HALLIBURTO CLASS_CMT: Light/Stand Cement1 Varicem <sup>TM</sup>	ON ENERGY SERVIC	SACKS	INSPECTOR W. 355 WEIGHT	VILLIAM STOLARIK  13.5 YIELD 1.4	
CLASS_CMT: Light/Stand Class_CMT: Light/Stand Cement1 Varicem <sup>TM</sup> CLASS_CMT2: Class A Cen	ON ENERGY SERVIC	SACKS	INSPECTOR W. 355 WEIGHT	VILLIAM STOLARIK  13.5 YIELD 1.4	
CLASS_CMT: Light/Stand Class_CMT: Light/Stand Cement1 Varicem <sup>TM</sup> CLASS_CMT2: Class A Cen	ON ENERGY SERVIC	SACKS	INSPECTOR W. 355 WEIGHT	VILLIAM STOLARIK  13.5 YIELD 1.4	
CLASS_CMT: Light/Stand Class_CMT: Light/Stand Cement1 Varicem <sup>TM</sup> CLASS_CMT2: Class A Cen	ON ENERGY SERVIC	SACKS	INSPECTOR W. 355 WEIGHT	VILLIAM STOLARIK  13.5 YIELD 1.4	
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CHASS_CMT: Light/Stand Cement1 Varicem <sup>TM</sup> CLASS_CMT2: Class A Cen	ON ENERGY SERVIC	SACKS	INSPECTOR W. 355 WEIGHT	VILLIAM STOLARIK  13.5 YIELD 1.4	

Strings fld SRF* CONDITION New
Bot         393         Diam         18.625         Top         0         LENGTH         Set Dt         12/16/2014
String Comments Casing Condition, Weight and Cement Basket  87.5 pound casing no basket. Casing was centralized with four bow spring centralizers.
Cement
BOC 393 TOC 0 DT_CM Duration 9 WITNESSED
CMT_CON   ALLIED OIL & GAS SERVICES   INSPECTOR   ERIC CONRAD
CLASS_CMT: Class A Cement SACKS 777 WEIGHT 15.6 YIELD 1.18
Cement1 Good cement returns to surface. Casing pressure test passed.
CLASS_CMT2: SACKS2 WEIGHT YIELD
Cement2
Plug Details
PLUG 1 TYP Cement Density Tons Cla GEL_VIS
INTERVAL_BOT 8360 INTERVAL_TOP 6998 Weight 15.6 Stat
CLASS_CMT Class G Cement Cemntd Dt 9/29/2015 Bot 7510 Top 7310 Sack 205
FMTN_C QUEENSTON FORMATION CMT_CON
Inspector WILLIAM STOLARIK Duration
Spacer Type VISCOSITY SPACER_WEIGHT: CIRCULATION
DISPLACEMENT_VO CEMENT_ADDITIVES:
Cement Contractor

CMMNT

		Total Duration
The inspector's signature below attests the witnessed, and by the information provided on the owner/operator has successfully plugged the well to the Ohio Administrative Code, or that plugging materials.	ore in compliance with the objectives stated in	signature does not imply that the Section 1501:9-11-03 or 4101:10-1-02 of
(Signature of Inspector)		Date Plugging Completed
	OWNER AFFIDAVIT	
By signing this affidavit, you are swearing or affirming	ng that the information it contains is true and ac	curate.
contained in this Affidavit, that I am competent to te knowledge and belief:  1. That I am the owner or operator age 2. That the attached clay or cement tio the well referenced in this report; and 3. That I have read this plugging report	being first duly cautioned and sworn, state that stify to the matters stated herein, and that the form the who placed plugging material in the well references, affidavits, and/or bill of lading are the acturate, and the plugging materials were properly places of Ohio Revised Code, Section 4101:10 et section	ollowing are true to the best of my erenced in this plugging report; eal records for such materials used to plug ed at the depths indicated on this plugging
1501:9-11-01 et seq. of the Ohio Admi		4. Of the Offic Administrative Code and/of
Further Affiant sayeth naught.		
In testimony whereof, I have herewith su	bscribed my name this day of	, 19
/ /		
Date Plugging Completed	Signature of Owner or Operator Agent	
The foregoing instrument was sworn to, subscribed	and acknowledged before me this day	of, 19
		Notary Public Signature

This report shall be submitted to the ODNR Division of Oil and Gas Resources Management within 30 days after the date the surface hole is plugged.