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

API 47 017 06274	County Doddridge	Distri	ict Grant	
Quad Smithburg 7.5'	Pad Name Chestnu		/Pool Name	
Farm name Trustees Chestnut Gro			Number Mist	
Operator (as registered with the OOG)	Antero Resources Co	orporation		
Address 1615 Wynkoop Street	City Denve		State CO	Zip <u>80202</u>
	Northing 4,357,128m	lat, profile view, and dev	524,014m	
	Northing 4,356,935.76m		23,644.64m	
Bottom Hole	Northing 4,354,570m	Easting <u>5</u>	24,596M	<u> </u>
Elevation (ft) 1,115' GL	Type of Well   N	ew 🗅 Existing	Type of Report	□Interim <b>≜</b> Final
Permit Type   Deviated   He	orizontal 🖪 Horizontal	6A 🗆 Vertical	Depth Type	□ Deep ■ Shallow
Type of Operation   Convert   D	eepen ■ Drill □ Pl	ug Back 🗆 Redrilling	□ Rework	■ Stimulate
Well Type □ Brine Disposal □ CBM	I ■ Gas □ Oil □ Secon	dary Recovery	n Mining □ St	orage 🗆 Other
•			•	•
Type of Completion ■ Single □ Mul	tiple Fluids Produced	l □ Brine ■Gas □ l	NGL □ Oil	□ Other
Drilled with □ Cable ■ Rotary				
Drilling Media Surface hole  Air	□ Mud □Fresh Water	Intermediate hole	■ Air □ Mud	□ Fresh Water □ Brine
•	Fresh Water 🗆 Brine			
Mud Type(s) and Additive(s) Air- Foam & 4% KCL				
Mud- Polymer				
Date permit issued 07/25/2013  Date completion activities began	Date drilling commer 08/01/2014	nced01/09/2014	Date drilling	ceased05/01/2014 01/24/2015
Verbal plugging (Y/N)N/A	Date permission granted _	N/A G	ranted by	N/A
Please note: Operator is required to su	ibmit a plugging application	on within 5 days of verbal	permission to p	lug
Freshwater depth(s) ft 6	7', 122' <sub>C</sub>	pen mine(s) (Y/N) depths	<b>.</b>	No
Salt water depth(s) ft 900	; 1,143' <sub>V</sub>	oid(s) encountered (Y/N)	depths	None
Coal depth(s) ft None id	dentified	avern(s) encount of		None
Is coal being mined in area (Y/N)	N.1 -	Office of Oil	and Gas	

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API 47- 017	_ 06274	Farm nar	ne Trustee	es Che	stnut Grove Ch	nurch Wel	l number_Mish	ka Unit 2H	
CASING STRINGS	Hole Size	Casing Size	Depth		w or Grade		Basket Depth(s)	Did cement circulate Provide details	, ,
Conductor	24"	20"	40'	<u> </u>		; J-55	N/A	Yes	
Surface	17 1/2"	13 3/8"	363'			; H-40	N/A	Yes*	
Coal									
Intermediate 1	12 1/4"	9 5/8"	2,516'		lew 36#	t: J-55	N/A	Yes	
Intermediate 2						,,,,,,			
Intermediate 3				+					
Production	8 3/4" & 8 1/2"	5 1/2"	15,958'		lew 23#:	P-110	N/A	Yes	
Tubing	0 3/4 0 0 1/2	2 3/8"	7,363'	<del></del> '		#; N-80	N/A	163	
Packer type and de	enth set	N/A	7,303		0.93	#, 14-60	IN/A		
Comment Details		ment surface casing (432 s				·			
CEMENT DATA	Class/Type of Cement	Number of Sacks		urry (ppg)	Yield (ft ³/sks)	Volume (fl. <sup>1</sup> )	Cement Top (ME		/OC hrs)
Conductor	Class A	93 sx	1	7.5	1.18	38	0'	8	3 Hrs.
Surface	Class A	532 sx*	1	5.6	1.18	252	0,	8	3 Hrs.
Coal									
Intermediate 1	Class A	927 sx	1	5.6	1.18	788	0,	3	3 Hrs.
Intermediate 2									
Intermediate 3									
Production	Class H	1,173 sx (Lead); 1,298	sx (Teil) 14.5 (Lead	(); 15.2 (Teil)	1.3 (Lead); 1.86 (Tail)	3,194'	~500' into Intermedia	ate Casing 8	3 Hrs.
Tubing		<u> </u>			<u> </u>				
Drillers TD (ft Deepest forma Plug back pro-	tion penetrated	t' TVD (BHL); 7,015' (Deep Marcellus	oest Point Drilled	_ ,	ggers TD (ft) 15. g back to (ft) N/				
Kick off depth		□ caliper □ neutron	□ density □ resistiv		deviated/directi		logs on or API #47-0	is subsequent well. Anter well on a multi-well poly-17-06400). Please refe with Form WR-35 for the ond Log has been inclu	ad (Hoskinson erence the wire he Hoskinson I
Well cored	Yes 🛔 No	Convention	nal Si	dewall	w	ere cutting	s collected 🗆 🗅	Yes ■ No	
DESCRIBE T	HE CENTRAL	LIZER PLACEME	NT USED I	FOR EA	ACH CASING S	TRING _			
	le shoe, 1 above insert	t float, 1 every 4th joint to sur	face						
		collar, 1 every 4th joint to collar, 1 every 3rd joint to to						·	
		AS SHOT HOLE		■ No	DETAILS				
WAS WELL C	COMPLETED	OPEN HOLE?	□ Yes 🖪	No	DETAILS _			RECEIVE e of Oil an	
WERE TRAC	ERS USED 1	⊐Yes ■ No	TYPE OF	TRAC	ER(S) USED _			JUL <b>13</b> 20	15

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Lugo	O1

API	47- 017	06274	Farm name_	Trustees Chestnut Grove Church	_Well number	Mishka Unit 2H

## PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	-				
		* PLEASE S	SEE ATTA	CHED EX	CHIBIT 1
-	<del></del>		<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)
<b></b>								
		* P	LEASE SEI	ATTAC	HED EX	HIBIT 2		
		-						
						-		
					-			
							RE	CEIVED

Please insert additional pages as applicable.

Office of Oil and Gas

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API 47- 017	_ 06274	Farn	name_Trustees	Chestn	ut Grove Chur	ch Well r	number	Mishka Unit 2H
PRODUCING	FORMATION(	<u>S)</u>	DEPTHS					
Marcellus			6,947' (top)	_ TVD	7,352' (top)	MD		
						_		
				-	-	_		
Please insert ac	dditional pages a	s applicable.	-	_	-	_		
			■ Open Flow		OIL TEST 🗆	Flow =	Pump	i.
SHUT-IN PRE		ace 3,550			psi			OF TEST hrs
OPEN FLOW	Gas	Oil	NGL		Water	GAS M	ŒASU	JRED BY
	1,693 mcf	pd	bpd	- bpd	bpd	□ Estin	nated	■ Orifice □ Pilot
LITHOLOGY/ FORMATION	TOP DEPTH IN FT	BOTTOM DEPTH IN FT	TOP DEPTH IN FT	BOTTO DEPTH IN		ROCK TYI	PE AND	RECORD QUANTITYAND
	NAME TVD 0	TVD	MD 0	MD	TYPE OF F	LUID (FRE	SHWAT	'ER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
	[·	DEFA	VE CIPIE A		THEN EX	TTTDT	n a l	<u> </u>
	*	PLEAS	SE SEE A	ITAC	HED EX	HIRL	13	
Please insert ac	dditional pages a	s applicable.						
Drilling Contra	actor Frontier Dr	Iling LLC						20115
Address 562 sp	oring Run Road		City	Pennsbo	ro	State	WV	Zip <u>26415</u>
Logging Comp Address 600 Al	pany Rush Wells pha Drive	ite Services	City	Canonsb	urg	State	PA	RECEIVED — <sup>7</sup> Offi <sup>5317</sup> of Oil and Gas
Cementing Co	mpany Nabors (	Completion & F	Production Service	es, Co.				1111 1 9 2015
Address 1650 H	Hackers Creek		City	Jane Lev	/	State	WV	Zip 26378JL 1 3 2015
Stimulating Co		Hughes	City	Clarksbu	rg	State	wv	WV Department of Exivironmental Protection
	dditional pages a	s applicable.						- LIVITORINGHIA FIULCULUI
Completed by	y Megan Darling				Telephon	e 303-357	-7230	
Signature 7	Manen (	· Sand	in Title P	ermitting A	gent		Date (	07/10/2015

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

API <u>47</u>	7-017-06274 Far	m Name <u>Trustees Ches</u>	tnut Grove Chu	rch Well Number	Mishka Unit 2H					
EXHIBIT 1										
Stage No.	Perforation	Perforated from MD	Perforated to	Number of	Formations					
	Date	ft.	MD ft.	Perforations						
1	1-Aug-14	15,700	15,867	60	Marcellus					
2	6-Sep-14	15,503	15,670	60	Marcellus					
3 4	6-Sep-14 8-Sep-14	15,305 15,107	15,472 15,274	60 60	Marcellus Marcellus					
5	9-Sep-14	14,910	15,077	60	Marcellus					
6	10-Sep-14	14,712	14,879	60	Marcellus					
7	10-Sep-14	14,514	14,681	60	Marcellus					
8	10-Sep-14	14,317	14,484	60	Marcellus					
9	11-Sep-14	14,119	14,286	60	Marcellus					
10	11-Sep-14	13,921	14,088	60	Marcellus					
11	11-Sep-14	13,724	13,891	60	Marcellus					
12	12-Sep-14	13,526	13,693	60	Marcellus					
13	12-Sep-14	13,328	13,495	60	Marcellus					
14	13-Sep-14	13,131	13,297	60	Marcellus					
15	13-Sep-14	12,933	13,100	60	Marcellus					
16	14-Sep-14	12,735	12,902	60	Marcellus					
17	14-Sep-14	12,538	12,704	60	Marcellus					
18	14-Sep-14	12,340	12,507	60	Marcellus					
19	15-Sep-14	12,142	12,309	60	Marcellus					
20	15-Sep-14	11,945	12,111	60	Marcellus					
21	16-Sep-14	11,747	11,914	60	Marcellus					
22 23	16-Sep-14 17-Sep-14	11,549	11,716 11,518	60 60	Marcellus Marcellus					
23	17-Sep-14 17-Sep-14	11,352 11,154	11,318	60	Marcellus					
25	17-3ep-14 17-Sep-14	10,956	11,123	60	Marcellus					
26	18-Sep-14	10,759	10,925	60	Marcellus					
27	18-Sep-14	10,561	10,728	60	Marcellus					
28	18-Sep-14	10,363	10,530	60	Marcellus					
29	18-Sep-14	10,166	10,332	60	Marcellus					
30	19-Sep-14	9,968	10,135	60	Marcellus					
31	19-Sep-14	9,770	9,937	60	Marcellus					
32	19-Sep-14	9,573	9,739	60	Marcellus					
33	19-Sep-14	9,375	9,542	60	Marcellus					
34	20-Sep-14	9,177	9,344	60	Marcellus					
35	20-Sep-14	8,980	9,146	60	Marcellus					
36	20-Sep-14	8,782	8,949	60	Marcellus					
37	21-Sep-14	8,584	8,751	60	Marcellus					
38	21-Sep-14	8,387	8,553	60	Marcellus					
39	21-Sep-14	8,189	8,356	60	MarcelluRECEIVED					
40	21-Sep-14	7,991	8,158	60	<del>™®Mice of Dil and Gas</del>					
41	21-Sep-14	7,794	7,960	60	ivial cellus					
42	22-Sep-14	7,596	7,763	60	Marcellus 1 3 2015					
43	22-Sep-14	7,398	7,565	60	Marcellus					

API 47-017-06274 Farm Name Trustees Chestnut Grove Church Well Number Mishka Unit 2H										
EXHIBIT 2										
			Avg	Max				Amount of		
			Treatment	Breakdown			Amount of	Nitrogen/		
C N .	Stimulations	Avg Pump	Pressure	Pressure	ICID (DCI)	Amount of Proppant	Water	other		
Stage No.	Date	Rate	(PSI)	(PSI)	ISIP (PSI)	(lbs)	(bbls)	(units)		
1	5-Sep-14	69.9	7,565	N/A	5,366	96,725	6,936	N/A		
2	6-Sep-14	75.1	7,456	5,826	5,189	252,540	6,724	N/A		
3	6-Sep-14	78.7	7,758	5,953	4,952	227,516	6,919	N/A		
4	8-Sep-14	71.5	7,416	5,710	5,021	220,144	6,807	N/A		
5	9-Sep-14	72.0	7,414	5,660	5,448	216,795	6,868	N/A		
6	10-Sep-14	72.0	7,414	5,603	5,489	214,904	6,992	N/A		
7	10-Sep-14	76.0	7,493	5,456	4,608	231,752	6,679	N/A		
8	10-Sep-14	76.0	7,493	5,728	5,183	204,877	6,980	N/A		
9	11-Sep-14	77.5	7,746	5,532	5,571	185,319	6,250	N/A		
10	11-Sep-14	76.0	7,405	5,777	4,647	232,377	6,684	N/A		
11	11-Sep-14	81.0	7,672	5,533	5,693	246,555	6,676	N/A		
12	12-Sep-14	80.0	7,610	5,587	4,795	232,113	6,446	N/A		
13	12-Sep-14	83.0	7,705	5,515	5,244	232,063	6,390	N/A		
14	13-Sep-14	80.0	7,412	5,731	5,367	233,431	6,381	N/A		
15	13-Sep-14	79.0	7,350	5,518	5,000	236,679	6,448	N/A		
16	14-Sep-14	81.0	7,437	5,451	4,461	233,448	6,352	N/A		
17	14-Sep-14	81.0	7,482	5,703	5,091	253,761	6,487	N/A		
18	14-Sep-14	79.0	7,340	5,578	5,336	234,111	6,455	N/A		
19	15-Sep-14	79.0	7,451	5,547	5,004	236,430	6,342	N/A		
20	15-Sep-14	80.0	7,482	5,759	5,438	236,775	6,305	N/A		
21	16-Sep-14	82.0	7,369	5,843	5,618	236,374	6,407	N/A		
22	16-Sep-14	81.0	7,242	5,712	5,526	237,514	6,441	N/A		
23	17-Sep-14	78.0	7,167	5,494	5,174	235,297	6,262	N/A		
24	17-Sep-14	80.0	7,223	5,446	5,107	240,040	6,291	N/A		
25	17-Sep-14	82.0	7,321	5,813	5,755	238,501	6,308	N/A		
26	18-Sep-14	80.0	7,240	5,578	5,071	240,365	6,347	N/A		
27	18-Sep-14	80.0	7,228	5,634	5,304	240,348	6,179	N/A		
28	18-Sep-14	80.0	7,379	5,587	5,551	237,734	6,185	N/A		
29	18-Sep-14	82.0	7,278	5,925	5,408	235,841	6,214	N/A		
30	19-Sep-14	78.0	6,962	5,430	5,007	236,882	6,182	N/A		
31	19-Sep-14	77.0	6,974	5,670	4,878	232,838	6,216	N/A		
32	19-Sep-14	82.0	7,029	5,766	5,396	232,277	6,069	N/A		
33	19-Sep-14	82.0	7,091	5,705	5,427	233,893	6,450	N/A		
34	20-Sep-14	75.0	6,685	5,743	4,984	237,363	6,201	N/A		
35	20-Sep-14	78.0	6,816	5,594	440	239,499	6,089	N/A		
36	20-Sep-14	82.0	7,010	5,980	4,409	232,301	6,084	N/A		
37	21-Sep-14	78.0	6,888	5,745	4,605	237,977	6,066	N/A		
38	21-Sep-14	79.0	6,911	5,505	4,540	233,296	5,829	N/A		
39	21-Sep-14	80.0	6,819	6,051	5,150	235,095	5,998	N/A		
40	21-Sep-14	80.0	6,806	5,512	4,705	240,793	REGEI	(E/D)		
41	21-Sep-14	77.0	6,834	5,555	5,584	237,657 <b>Offi</b>	te of Wil	annal Gas		
42	22-Sep-14	78.0	6,744	5,018	5,198	225,094	5,968	N/A		
43	22-Sep-14	79.0	6,884	6,600	5,107	237,679	JU1513	240/25		
	AVG=	78.6	7,256	5,668	5,043	9,892,973	274,157	TOTAL		

API 47-017-06274 Farm Name Trustees Chestnut Grove Church Well Number Mishka Unit 2H										
EXHIBIT 3										
TOP DEPTH (TVD)   BOTTOM DEPTH (TVD)   TOP DEPTH (MD)   BOTTOM DEPTH (MD)										
LITHOLOGY/ FORMATION	From Surface	From Surface	From Surface	From Surface						
Fresh Water	67'	N/A	67'	N/A						
Fresh Water	122'	N/A	122'	N/A						
Shale/Siltstone	0	257	0	257						
Shale w/ Coal	est. 257	347	est. 257	347						
Shale and Siltstone	est. 347	377	est. 347	377						
Shale/Sandstone/Siltstone	est. 377	1,457	est. 377	1,457						
Shale and Siltstone w/trace coal	est. 1457	1,487	est. 1457	1,487						
Shale/Sandstone/Siltstone	est. 1487	1,637	est. 1487	1,637						
Sandstone	est. 1637	1,757	est. 1637	1,757						
Sandstone w/trace coal	est. 1757	1,787	est. 1757	1,787						
Shale/Sandstone/Siltstone	est. 1787	2,061	est. 1787	2,061						
Big Lime	2,061	2,205	2,061	2,205						
Big Injun	2,205	2,634	2,205	2,634						
Gantz Sand	2,634	2,780	2,634	2,780						
Fifty Foot Sandstone	2,780	2,846	2,780	2,846						
Gordon	2,846	3,211	2,846	3,211						
Fifth Sandstone	3,211	3,250	3,211	3,250						
Bayard	3,250	3,586	3,250	3,587						
Warren	3,586	3,961	3,587	3,975						
Speechley	3,961	4,211	3,975	4,247						
Baltown	4,211	4,718	4,247	4,800						
Bradford	4,718	5,210	4,800	5,333						
Benson	5,210	5,448	5,333	5,592						
Alexander	5,448	5,654	5,592	5,819						
Elk	5,654	6,215	5,819	6,440						
Rhinestreet	6,215	6,534	6,440	6,793						
Sycamore	6,534	6,720	6,793	7,011						
Middlesex	6,720	6,857	7,011	7,194						
Burkett	6,857	6,885	7,194	7,237						
Tully	6,885	6,947	7,237	7,352						
Marcellus	6,947	NA	7,352	NA						

<sup>\*</sup>Please note Antero determines shallow formation tops based on mud logs that are only run on one well on a multi-well pad. The measured depth (MD) data on subsequent wells may be slightly different due to the well's unique departure.

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## **Hydraulic Fracturing Fluid Product Component Information Disclosure**

position:	Hydraulic Fracturing Fluid Composition:
0	Total Base Non Water Volume:
12,277,020	Total Base Water Volume (gal):
6,979	True Vertical Depth:
NO	Federal/Tribal Well:
NAD83	Datum:
39.36327500	Latitude:
-80.72124400	Longitude:
Mishka Unit 2H	Well Name and Number:
Antero Resources Corporation	Operator Name:
47-017-06274-00-00	API Number:
Doddridge	County:
West Virginia	State:
9/22/2014	Job End Date:
9/5/2014	Job Start Date:

and, White,

100

Baker Hughes

roppant

RW-18

**Saker Hughes** 

riction Reducer

W-3LDF

**3aker Hughes** 

Selling Agent

MSDS and Non-MSDS Ingredients Listed Below

NA

MSDS and Non-MSDS ngredients Listed Below

NA

0.64657

3.18204

NSDS and Non-MSDS ngredients Listed Below

NA

MSDS and Non-MSDS ngredients Listed Below

NA

10.1 - 15%

Baker Hughes

caletrol 720

**3aker Hughes** 

Scale Inhibitor

MSDS and Non-MSDS Ingredients Listed Below

AN

MSDS and Non-MSDS ngredients Listed Below

NA

Ingredients Listed Below

**MSDS** and Non-MSDS

N/A

0.01455SmartCare Product

0.05734SmartCare Product

0.10826SmartCare Product

0.20547SmartCare Product

sand, White, 20/40

Baker Hughes

roppant

and, White, 40/70

Baker Hughes

roppant

Water

7732-18-5

100.00000

90.72039

4.92304

Vater

Operator

Carrier

Trade Name

Supplier

Purpose

Ingredients

Abstract Service Concentration in

Ingredient Maximum

Maximum
Ingredient
nConcentration in
HF Fluid

Comments

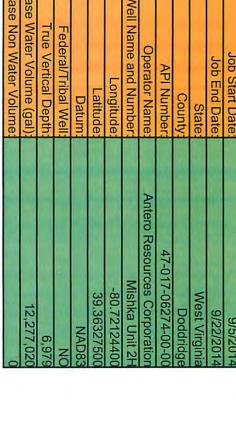
(CAS #) Number

(% by mass)\*\*

(% by mass)\*\*

Additive

Chemical









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JUL 1 3 2015

WV Department of Environmental 46/2015



																												ingredients in Additive (s) (MSDS and non-MSDS)	Ingredients shown ab		CI-14		Ferrotrol 300L		Alpha 1427		Enzyme G-NE
																												Baker Hughes	ngredients shown above are subject to 29 C		Baker Hughes		Baker Hughes		Baker Hughes		Baker Hughes
																												See Trade Name(s) List	CFR 1910.1200(i) and ap		Corrosion Inhibitor		ron Control		Biocide		Breaker
Polyoxythylene Sorbitan Monooleate	Sorbitan Monooleate	Methanol	Ethanol	Quaternary Ammonium Compound	Hemicellulase Enzyme Concentrate	Calcium Chloride	Citric Acid	Alcohols, C12-16, ethoxylated	Oleamide DEA	Didecyl Dimethyl Ammonium Chloride	Ammonium Chloride	2-Propenoic, Polymer with Sodium Phosphinate, Sodium Salt	Sodium Chloride	Glutaraldehyde	sotridecanol, ethoxylated	1-butoxy-2-propanol	Crystalline Silica: Quartz	Ethylene Glycol	Poly (acrylamide-co-acrylic acid) 62649-23-4 bartial sodium salt	Hydrotreated Light Distillate	Hydrochloric Acid	Petroleum Distillates	Paraffinic Petroleum Distillate	Guar Gum	Mineral Oil	Water	Crystalline Silica (Quartz)		1910, 1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients	MSDS and Non-MSDS Ingredients Listed Below		MSDS and Non-MSDS Ingredients Listed Below		MSDS and Non-MSDS Ingredients Listed Below		MSDS and Non-MSDS Ingredients Listed Below	
9005-65-6	1338-43-8	67-56-1	64-17-5	68424-85-1	9025-56-3	10043-52-4	77-92-9	68551-12-2	93-83-4	7173-51-5	12125-02-9	71050-62-9	7647-14-5	111-30-8	9043-30-5	5131-66-8	14808-60-7	107-21-1	) 62649-23-4	64742-47-8	7647-01-0	64742-47-8	64742-55-8	9000-30-0	8042-47-5	7732-18-5	14808-60-7		eets (MSDS). Ingredie	NA		N/A		N/A		N/A	
0.50000	0.50000	100.00000	5.00000	5.00000	5.00000	5.00000	60.00000	2.00000	2.00000	10.00000	3.00000	20.00000	5.00000	30,00000	5.00000	5.00000	5.00000	45.00000	30.00000	30.00000	15.00000	30.0000	30.0000	00000.09	70.0000	95,00000	100.0000		nts shown below are Non-MSDS								
0.00029	0.00029	0.00033	0.00061	0.00061	0.00070	0.00073	0.00085	0.00113	0.00115	0.00123	0.00172	0.00291	0.00301	0.00369	0.00541	0.00541	0.00541			RE	0.03078 C		V	0.06487		0.22593	8.74065 <u>0</u>		Non-MSDS.	0.00033SmartCare Product		0.00142SmartCare Product		0.01231SmartCare Product		0.01396SmartCare Product	
																			\/\	JL	L				5												

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.  Incredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)	*Total Water Volume sources may include fresh water, produced water, and/or recycled water
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