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

API	_{47 -} 033	_ 05922	County Harrison		District Simpson	
Quad E	Brownton		Pad Name Gamelli H	800	Field/Pool Name	
		Gamelli et al			Well Number 201	
Operato	or (as registered	with the OOG)	Arsenal Resources			
		ce Rd Ext, Ste			State PA	Zip 15090
As Dril	Landing Poin	t of Curve 1	Attach an as-drilled pla Northing $4,346,080.3$ Northing $4,345,727.6$ Northing $4,341,653.1$	Eas East	d deviation survey ting 568,645.9 ting 568,155.8 ting 569,636.0	
Elevatio	on (ft) 1141.	00' GL	Type of Well	v 🗆 Existing	Type of Report	□Interim ■Final
Permit '	Type □ De	viated 🗆 He	orizontal 📕 Horizontal 64	A 🗆 Vertical	Depth Type	🗆 Deep 🗆 Shallow
Type of	f Operation 🗆	Convert 🗆 D	eepen 📕 Drill 🗆 Plug	Back 🗆 Redri	lling 🗆 Rework	□ Stimulate
Well T	ype 🗆 Brine D	isposal □ CBM	[🛢 Gas 🗆 Oil 🗆 Seconda	ry Recovery 🗆 S	olution Mining 🗆 St	orage 🗆 Other
	f Completion with \Box Cable	⊐ Single ■ Mul ■ Rotary	tiple Fluids Produced	□ Brine ■Gas	🗆 NGL 🗆 Oil	□ Other
Product Mud T	g Media Surfa tion hole A ype(s) and Add etic Oil Base	ir 🛎 Mud 🛛	□ Mud □Fresh Water □ Fresh Water □ Brine	Intermediate	hole ■Air □Muc	I □ Fresh Water □ Brine
Date co	ermit issued ompletion activity plugging (Y/N		Date drilling commence 6/9/2021 Da Date permission granted	ed03/18/201 tte completion act: NA	ivities ceased	_{ceased} 07/11/2019 6/26/2021 NA
VCIUAI	plugging (1/14)		Date permission granted		Granted by	
Please	note: Operator	is required to su	bmit a plugging application	within 5 days of v	verbal permission to p	blug
Freshw	ater depth(s) f	115', 3	80' 575', 650' 👝 Ope	en mine(s) (Y/N) o	lepths	Ν
	ter depth(s) ft		,400' R (Voi	d(s) encountered	(Y/N) depths	N
				vern(s) cncountere	d Y/N) depths	N
Is coal	being mined in	area (Y/N)	<u> </u>	per		Reviewed By: 12/31/2021

WR-35 Rev. 8/23/13

API	47-033	05922	_{Farm name} James T. Gamell

lli et al

Well number 201

CASING STRINGS	Hole Size	Casing		New or	Grade	Basket	Did cement circulate (Y/N)
		Size	Depth	Used	wt/ft	Depth(s)	* Provide details below*
Conductor	30"	26"	40'	New	102.75	NA	Y
Surface	17 1/2"	13 3/8"	736' GL	New	54.5	182'	Y
Coal	NA	NA	NA	NA	NA	NA	N
Intermediate 1	12 1/4"	9 5/8"	2475' GL	New	40.0	NA	Y
Intermediate 2	NA	NA	NA	NA	NA	NA	NA
Intermediate 3	NA	NA	NA	NA	NA	NA	NA
Production	8 1/2"	5 1/2"	22,438' GL	New	23.0	NA	N
Tubing	NA	NA	NA	NA	NA	NA	NA
Packer type and de	epth set	NA					
Comment Details	Cement to surfa	ace on Conductor, Surfa	ce, Intermediate and Pr	oduction.			
CEMENT DATA	Class/Ty				Yield Volu		ment WOC

DATA	of Cement	of Sacks	wt (ppg)	(ft ³ /sks)	(ft^2)	Top (MD)	(hrs)
Conductor	А	82	15.60	1.20	98.40	Surface	8+
Surface	А	700	15.60	1.18	826	Surface	8+
Coal	NA	NA	NA	NA	NA	NA	NA
Intermediate 1	А	767	15.70	1.29	989.43	Surface	8+
Intermediate 2	NA	NA	NA	NA	NA	NA	NA
Intermediate 3	NA	NA	NA	NA	NA	NA	NA
Production	А	913/2909	13.80/15.00	1.40/1.28	1,278.2/3,723.52	Surface	8+
Tubing	NA	NA	NA	NA	NA	NA	NA

Drillers TD (ft) 22,453'(GL) Loggers TD (ft) NA Deepest formation penetrated Marcellus Plug back to (ft) NA Plug back procedure NA

Kick off depth (ft) 7,125'(GL)

Check all wireline logs run	□ caliper	density	□ deviated/directional	□ induction
	□ neutron	🗆 resistivity	🗆 gamma ray	□ temperature

Well cored 🗆 Yes 📕 No Conventional Sidewall

Were cuttings collected Ves D No

□sonic

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING 26"- No centralizers, 13 3/8"- one bow spring centralizer on every other joint, 9 5/8" one semi rigid centralizer on every joint from TD of casing to end of curve. Then every other joint to KOP. Every third joint from KOP to 1,400"; there will be no centralizers from 1,400 to surface

WAS WELL COMPLETED AS SHOT HOLE	📕 Yes 🗆 No	DETAILS	

WAS WELL COMPLETED OPEN HOLE? 🗆 Yes 📕 No DETAILS

WERE TRACERS USED
□ Yes
No TYPE OF TRACER(S) USED

API 47	_ 033 _ 05922	Farm nam	_e _James T. Ga	melli et al	Well number201
			PERFORATI	ON RECORD	
Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
		See Attached		A	

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)
			See Attached					radogen outer (units)
						-		

Please insert additional pages as applicable.

Perforations

Date

	Top (ftKB)	Btm (ftKB)		Entered Shot Total	Stage	
6,	/26/2021	8,246.00	8,408.00	40	Stage	Marcellus
6,	/26/2021	8,446.00	8,608.00	40		Marcellus
6,	/25/2021	8,646.00	8,808.00	40		Marcellus
6,	/25/2021	8,846.00	9,008.00	40		Marcellus
6,	/25/2021	9,046.00	9,205.00	40		Marcellus
6,	/25/2021	9,244.00	9,408.00	40		Marcellus
	/25/2021	9,446.00	9,608.00	40		Marcellus
	/24/2021	9,646.00	9,808.00	40		Marcellus
	/24/2021	9,846.00	10,008.00	40		Marcellus
	An extension of the second s	10,046.00	10,208.00	40	60	Marcellus
	the state of the second	10,246.00	10,408.00	40	59	Marcellus
		10,446.00	10,608.00	40	58	Marcellus
	te e te e e	10,646.00	10,808.00	40		Marcellus
		10,846.00	11,008.00	40		Marcelius
	14 4 1 ·	11,046.00 11,246.00	11,208.00	40		Marcellus
		11,446.00	11,408.00	40		Marcellus
	1 1	11,646.00	11,608.00 11,808.00	40		Marcellus
		11,846.00	12,008.00	40 40		Marcellus
	An el An el C	12,046.00	12,208.00	40		Marcellus
	An other and the	12,246.00	12,408.00	40		Marcellus
	des texes :	12,446.00	12,608.00	40		Marcellus Marcellus
	Anna Anna a	12,646.00	12,808.00	40		Marcellus
6	A	12,846.00	13,008.00	40		Marcellus
6,	/20/2021	13,046.00	13,208.00	40		Marcellus
6,	/20/2021	13,246.00	13,408.00	40		Marcellus
6,	/19/2021	13,446.00	13,608.00	40		Marcellus
		13,646.00	13,808.00	40		Marcellus
	A A	13,846.00	14,008.00	40	41	Marcellus
		14,046.00	14,208.00	40	40	Marcellus
		14,246.00	14,408.00	40	39	Marcellus
	A	14,446.00	14,608.00	40	38	Marcellus
	and the second se	14,646.00	14,808.00	40	37	Marcellus
	11 A A	14,846.00	15,008.00	40		Marcellus
		15,046.00	15,208.00	40		Marcellus
	to an inclusion of	15,246.00	15,408.00	40		Marcellus
	the second se	15,446.00 15,646.00	15,608.00	40		Marcellus
	the second second	15,846.00	15,808.00 16,008.00	40 40		Marcellus
	tion to a second s	16,046.00	16,208.00	40		Marcellus
	to a face of	16,246.00	16,408.00	40		Marcellus
		16,446.00	16,608.00	40		Marcellus Marcellus
		16,646.00	16,808.00	40		Marcellus
6	6/16/2021	16,846.00	17,008.00	40		Marcellus
6	5/15/2021	17,046.00	17,208.00	40		Marcellùs
6	6/15/2021	17,246.00	17,408.00	40		Marcellus
		17,446.00	17,608.00	40		Marcellus
		17,646.00	17,808.00	40		Marcellus
		17,846.00	18,008.00	40	21	Marcellus
		18,046.00	18,208.00	40	20	Marcellus
		18,246.00	18,408.00	40	19	Marcellus
		18,446.00	18,608.00	40	18	Marcellus
		18,646.00	18,808.00	40	17	Marcellus
		18,846.00 19,046.00	19,008.00	40		Marcellus
		19,246.00	19,208.00	40		Marcellus
		19,446.00	19,408.00	40		Marcellus
		19,646.00	19,608.00 19,808.00	40		Marcellus
		19,846.00	20,008.00	10		Marcellus
		20,046.00	20,208.00	40 40		Marcellus
		20,246.00	20,408.00	40		Marcellus Marcellus
		20,446.00	20,608.00	40		Marcellus
		20,646.00	20,808.00	40		Marcellus
		20,846.00	21,008.00	40		Marcellus
6		21,046.00	21,208.00	40		Marcellus
		21,246.00	21,408.00	40		Marcellus
		21,446.00	21,608.00	40		Marcellus
		21,646.00	21,808.00	40		Marcellus
	6/9/2021	21,846.00	21,979.00	40		Marcellus

Stimulations Summary Start Date: 6/9/2021 Stimulation Intervals	R Treat Avg (bbl/	min}:	P Treat Avg (psi):		Mass Prop Tot (lb): 43,192,055.0	Vol Clean Total (bbl): 618,457.00	Frac Grad Avg (psi/ft): 1.18			
Stage Number	Start Date		Slurry Rate Avg (bbi/min)		P Treat Avg (psi)	P Breakdown (psi)	ISIP (psi)	Proppant Total OR (Ib)	Vol Clean Total (bbl)	Nitroger
	1 2	6/9/2021		78.60	10,334.00	6,317.00	4,595.00	500,395.00	9,733.00	
	3	6/10/2021 6/10/2021		79.90	10,154.00	5,642.00	4,482.00	496,570.00	9,205.00	D NA
	4	6/10/2021		80.60 80,70	10,175.00 9,930.00	5,660.00	5,106.00	499,880.00	9,444.00	
	5	6/10/2021		80.90	9,171.00	7,249.00 6,190.00	4,828.00	500,250.00	9,349.00	
	6	6/11/2021		81.20	9,258.00	6,158.00	5,199.00 4,650.00	502,330.00 501,050.00	9,258.00	
	7	6/11/2021		80.00	9,030.00	6,353.00	4,671.00	499,880.00	9,288.00 9,188.00	
	8	6/11/2021		79.60	9,260,00	6,156.00	5,569.00	451,260.00	10,012.00	
	9 10	6/11/2021 6/12/2021		80.90	9,039.00	5,593.00	5,870.00	497,460,00	9,380.00	
	11	6/12/2021		80.40 80.90	9,123.00	6,124.00	5,512.00	436,390,00	8,612.00	
	12	6/12/2021		83.70	8,542.00 8,798.00	5,840.00 5,703.00	5,027.00		9,304.00	
	13	6/13/2021		85,30	8,974.00	6,182,00	5,079.00 6,198,00		9,077.00	
	14	6/13/2021		85.40	8,927.00	6,449.00	5,170.00	500,460.00	9,040.00 9,129.00	
	15	6/13/2021		85.20	8,757.00	5,312.00	5,346.00	500,500,00	9,055.00	
	16	6/13/2021		85.20	8,962.00	6,045.00	4,933.00	500,090.00	9,018.00	
	17 18	6/14/2021		85.80	8,927.00	6,207.00	6,231.00	499,610,00	9,009.00	
	19	6/14/2021 6/14/2021		84.90 84.60	8,885.00	5,979.00	5,726.00	500,110.00	9,126.00	
	20	6/14/2021		84.80	9,010.00 9,321.00	6,106.00	6,691.00	500,180.00	9,068.00	
	21	6/14/2021		84.90	9,569.00	6,627.00 6,818.00	6,103.00 6,810.00	493,410.00 500,150.00	9,080.00 9,099.00	
	22	6/15/2021		85.40	9,768.00	5,445.00	5,512.00		9,099.00	
	23	6/15/2021		84.50	9,638.00	6,213.00	5,480.00	500,080,00	9,073.00	
	24 25	6/15/2021		85.80	9,871.00	6,457.00	6,071.00	499,960.00	8,989.00	
	25	6/16/2021 6/16/2021		84.80	9,558.00	7,050.00	5,519.00		9,046.00	
	27	6/16/2021		84.70 86.10	9,299.00 9,843.00	7,086.00	5,308.00			
	28	6/16/2021		84.60	9,658,00	6,596.00 5,920.00	6,631.00 7,250.00		9,237.00	
	29	6/16/2021		85.50	9,214.00	5,585.00	5,950.00			
	30	6/17/2021		85.30	8,827.00	6,431.00	6,400.00	499,910.00		
	31	6/17/2021		87.50	8,896.00	6,422.00	5,763.00			
	32 33	6/17/2021 6/17/2021		87.00	8,944.00	5,656.00	6,047.00			
	34	6/17/2021		86.20 85.90	8,704.00	5,307.00	6,130.00			
	35	6/18/2021		85.70	8,484.00 8,497.00	5,645.00 8,875.00	6,225.00			
	36	6/18/2021		88.20	8,693.00	6,242.00	6,013.00 5,260.00			
	37	6/18/2021		89.20	8,830.00	5,914.00	6,050.00			
	38	6/18/2021		84.90	8,862,00	5,250.00	5,740.00			
	39	6/19/2021		85.50	8,610.00	5,242.00	6,050.00			
	40 41	6/19/2021 6/19/2021		88.50 89.50	8,878.00	5,951.00	5,190.00			
	42	6/19/2021		85.90	9,058.00 8,683.00	6,413.00	6,173.00			
	43	6/19/2021		85.90	8,580.00	6,651.00 6,862.00	6,075.00 6,150.00		w) = = = = = = = = = = = = = = = = = = =	
	44	6/20/2021		88.50	8,977.00	6,859.00	5,911.00			
	45	6/20/2021		88.30	8,881.00	6,593.00	6,058.00			
	46 47	6/20/2021		85.70	8,478.00	6,464.00	6,525.00	501,100.00		
	47	6/21/2021 6/21/2021		85.40 88.60	8,430.00	6,622.00	6,140.00			
	49	6/21/2021		88.00	8,870.00 8,888.00	5,658.00 5,899.00	5,677.00			
	50	6/22/2021		84.90	8,722.00	6,420.00	5,819.00 5,074.00			
	51	6/22/2021		88.30	8,611.00	7,145.00	5,908.00			
	52	6/22/2021		85.40	8,142.00	6,023.00	5,800.00			
	53 54	6/23/2021		85.70	8,076.00	6,901.00	5,950.00	499,980.00	8,719.00	
	55	6/23/2021 6/23/2021		85,90	8,123.00	5,746.00	6,014.00			
	56	6/23/2021		85.00 85.80	8,302.00 8,286.00	6,363.00 6,737.00	6,200.00			
	57	6/24/2021		85.20	8,286.00	6,737.00	6,150.00			
	58	6/24/2021		85.80	7,826.00	5,206.00	5,250.00 5,887.00			
	59	6/24/2021		86.10	8,210.00	6,776.00	5,914.00			
	60	6/24/2021		86.20	8,019.00	5,877.00	5,664.00	501,760.00		
	61 62	6/24/2021		86.30	7,778.00	6,459.00	6,000.00	499,420.00		
	62	6/25/2021 6/25/2021		85.80 86.40	7,567.00	5,364.00	5,820.00	500,370.00		
	64	6/25/2021		85.10	7,830.00 7,809.00	6,481.00	6,020.00			
	65	6/25/2021		85.40	7,688.00	6,559.00 6,636.00	6,128.00 5,903.00		0,000.00	
	66	6/25/2021		85.80	7,622.00	6,117.00	5,903.00			
	67	6/25/2021		85.90	B,022.00	6,828.00	5,920.00			
	68 69	6/26/2021		85.90	7,826.00	7,287.00	5,900.00	499,740.00		
		6/26/2021		84.70	7,733.00	7,654.00				

WR-35 Rev. 8/23/13

API 47- 033	_ 05922	Farm 1	name_James T	. Gamelli	et al	Well number	_{er} _201	
PRODUCING H	FORMATION	5)	<u>DEPTHS</u>					
Marcellus Shale								
Marcenus Shale			7,503'	TVD	22,480'	MD		
Please insert ad	ditional pages a	s applicable.		-				
GAS TEST	🗆 Build up 🛛 🗆	Drawdown	□ Open Flow	(Flow 🗆 Pum	ıp	
SHUT-IN PRES	SSURE Surfa	ace	_psi Botto	m Hole	psi	DURATION	OF TEST	hrs
OPEN FLOW	Gas	Oil	NGL		Water	CARATTAR		7
			opd	bpd	bpd	GAS MEAS		
				- ^{opa} —	opu			
LITHOLOGY/	TOP	BOTTOM	TOP	BOTTOM				
FORMATION	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN F	T DESCRIBE	ROCK TYPE AN		QUANTITYAND
	NAME TVD	TVD	MD	MD				E, OIL, GAS, H_2S , ETC)
Sand/Silt/Coal	0	254	0	254				06' TVD, Harlem Coal @ 155' TVD
Sand/Silt/Coal	254	406	254	406				Creek Coal @ 310'TVD
Sand/Silt/Coal	406	505	406	505				Freeport @ 442' TVD
Sand/Silt/Coal	505	1260	505	1260				Kittanning @ 624' TVD, Clarion @ 660' TVD
Big Lime	1260	1430	1260	1430			Saltwater (
Balltown	2860	2906	2860	2906			Sandstone	2 1,400
Elk Siltstone	4590	4638	4595	4644			Siltstone	
Burkett	7006	7023	7580	7606			Shale	
Tully	7023	7072	7606	7682			imestone	
Mahantango	7072	7236	7682	8035			Shale	
Marcellus	7236	7289	8035	8243			Shale	
Purcell	7289	7291	8243	8251			Limestone	
Lower Marcellus	7291	7329	8251	22480		Shale - Gas		in lataral
Onondaga	7329*				*Onondaga no			sed on 4703305933 thickness
Please insert ad	ditional pages a	s applicable.			ononaugu na	r penetrated - top	estimated bas	sed on 4705505955 thickness
Drilling Contract		k Payne						
Address 1437 Se	outh Boulder Ave.		City	Tulsa		StateOK	Zip _7	/4119
Logging Compa	any NA							
Address			City			State	7:	
						State	Zip	
Cementing Con		Pressure Pum	ping					
Address 6 Desta	Drive, Suite 4400		City	Midland		State TX	Zip 7	9705
0.1 1	04!	Almar					— _ r	
Stimulating Con								
Address 14201 (City	Oklahoma C	City	State OK	Zip _7	/3134
Please insert ad	ditional pages a	s applicable.						
Completed by	Arsenal Resour	ces //			Talasha	724-584-1102	,	
Signature	- MA	AM	Title S	r. Director of D	I elephone	724-584-1192	0/11/2024	
Signature	Mall	Ø				Date	9/11/2021	

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

Date: 9/11/2021

Operators Well Number: Gamelli 201

API Well No: 47-033 _ 05922

5922

State of West Virginia Department of Environmental Protection Office of Oil and Gas

Well Operator's Report of Initial Gas-Oil Ratio

						S-OII Ra						
Well Operator	Arsenal R	esources L	LC			Desi	gnat	ed Agent	Gary SI	nort		
Address	6031 Wall	lace Road	Ext. Suite 3	00			•	_	s 633 West Main St			
	Wexford, I	PA 15090								ort WV, 26330)	
Coological -	Torract Ea		Marcollus		-							
Geological 1	rarget Fo	ormation:	Marcenus						Porfor	Depth ition Interva	7300 8246-21972	feet feet
Guidelines for te 1. A minimum 2. A 24 hour p 3. Uniform pro 4. Measureme 5. Separate Fo	of gas vo pre-flow in pducing ra ent standa	nto pipeli ate durin ards as f	nes or tai g the 24 l or Form \	hour test p NR-39, "R	eport	of Annu	ıal F	Production completi	n" (see .			
					TES1	DATA						
Start of Test 8/17/21	Date	7:00 A	Time M	8/18/2		Fest Date		7:00	Time AM	24 hr	Duration of Te	est
Tubing Press	Tubing Pressure Casing Pressure				924	Separator Pressure Separator Temperat					ture	
Oil Productio	Oil Production During Test Gas Production Durin					Test			Water	Production Du	ring Test	
		BBLS				MCF				Bls		-Salinity
Oil Gra	avity	API F	lowing	g	Proc	lucing Me	thod	(flowing, pu	umping, g	as lift etc.)		
				GA	S PR	ODUCT	ON			_		
		leasuremei ap 🚺 Pipe	nt Method	10 🔲				itive Choke	_			
Orifice diameter			Pipe Diam	eter (inside)		Positive flow prover Nominal Choke Size inches 48/64						
Differential Pressur	re range		Max. Stati	c pressure ra	ange		Prover and Orifice diameter - inches 3.826" run with 2" orifice					
	[Differential								Static		
Gas Gr	avity (Air =	•	7	Flowing	Temps	erature		60		Gas Tempera	ature	
	⊂si Coefficient	imated	I•	<u> </u>		24 H	ourc	oefficient p	ressure	PSIA		
				TI	EQT D	RESULT	TC					
Daily Oil 0	8	г 383	aily Water		14,23	Dai	ly Ga	s	NA		s-Oil Ratio	
								Arsenal Re	sources			
							Вγ		R	Well Operato		100

ITS: Responsible Person - Sr. Director of Drilling

Hydraulic Fracturing Fluid Product Component Information Disclosure

6/9/2021	Job Start Date:
6/26/2021	Job End Date:
West Virginia	State
Harrison	County
47-033-05922-00-00	API Number:
Arsenal Resources	Operator Name:
Gamelli 201	Well Name and Number:
39.26135000	Latitude:
-80.20432000	Longitude:
NAD27	Datum:
NO	Federal Well:
NO	Indian Well
7,448	True Vertical Depth:
26,901,084	Total Base Water Volume (gal)
0	Total Base Non Water Volume:



Oil & Gas



Hydraulic Fracturing Flui	d Composition:
---------------------------	----------------

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Arsenal Resources	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	86.50230	None
Sand (40/70 Proppant)	US Silica	Proppant					
	1		Silica Substrate	14808-60-7	100.00000	10.32896	None
Sand (100 Mesh Proppant)	US Silica	Proppant					
			Silica Substrate	14808-60-7	100.00000	2.92933	None
Hydrochloric Acid 28%)	Dover	Acidizing					
			Water	7732-18-5	64.00000	0.08346	None
			Hydrochloric Acid (Hydrogen Chloride)	7732-18-5	36.00000	0.04695	None
Chemstream 9750 Cationic	Chemstream	Friction Reducer					
			Distillates (petroleum), hydrotreated light	64742-47-8	25.00000	0.01951	
			Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	5.00000	0.00390	None
timstream SC 398	Chemstream	Scale Inhibitor					
		1	Non-hazardous substances	Proprietary	90.0000	0.01587	None

			Bis(HexaMethylene Triamine Penta(Methylene Phosphonic Acid) (BHMT)	34690-00-1	10.00000	0.00176	None
Clearall 268	Chernstream	Biocide					
			Non-hazardous substances	Proprietary	90.0000	0.01148	None
			Glutaraldehyde	111-30-8	20.00000	0.00255	None
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00038	None
			Alkyl dimethyl benzyl ammonium chloride	68391-01-5	3.00000	0.00038	None
NEFE-180 Do	Dover	Corrosion Inhibitor/Iron Control					
			Acetic acid	64-19-7	89.0000	0.00051	None
			Methanol	67-56-1	40.00000	0.00023	None
			2-Ethylhexanol	104-76-7	10.00000	0.00006	None
			Fatty acids, tall oil	61790-12-3	5.00000	0.00003	None
			Alcohols, C14-15, ethoxylated	68951-67-7	5.00000	0.00003	None
			2-Propyn-1-ol	107-1 9 -7	5.00000	0.00003	None
			Coconut oil acid diethanolamine	68603-42-9	5.00000	0.00003	None
Ingredients shown at	pove are subject to 2	9 CFR 1910.1200(i) and ap	pear on Material Safety Data She	ets (MSDS). Ingredi	ients shown below are Non-	-MSDS.	
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Water	7732-18-5	64.00000	0.08346	
			Non-hazardous substances	Proprietary	90.00000	0.01587	
			Non-hazardous substances	Proprietary	90.00000	0.01148	
			Alcohols, C11-14-iso-, C13-rich, ethoxylated	64	5.00000	0.00390	
			chloride	7173-51-5	3.00000	0.00038	
			Alkyl dimethyl benzyl ammonium chloride		3.00000	0.00038	
				67-56-1	40.00000	0.00023	
				104-76-7	10.00000	0.00006	
				68951-67-7	5.00000	0.00003	
			B	107-19-7	5.00000	0.00003	
			Coconut oil acid diethanolamine	58603-42-9	5.00000	0.00003	
				61790-12-3	5.00000	0.00003	

* Total Water Volume sources may include fresh water, produced water, and/or recycled water ** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided. Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)





