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

API 47-103 02932	County WETZE	L	District CENTER	
Quad BIG RUN 7.5'	Pad Name MICH	IAEL KUHN UNIT	Field/Pool Name MA	RCELLUS
Farm name KUHN, MICHAEL C			Well Number MICH	AEL KUHN UNIT 2H
Operator (as registered with the O	OG) STATOIL USA ON	SHORE PROPER		
Address 2103 CITYWEST BLV	/D City HO	USTON	State TX	Zip 77042
As Drilled location NAD 83/UT Top hole Landing Point of Curve	M Attach an as-drille Northing 4385157 Northing 4385664		nd deviation survey asting 540260 asting 540425	
Bottom Hole	Northing 4386763	Ea	sting 539215	
Elevation (ft) 1510' G		∎New □ Existing	Type of Report	
Permit Type   Deviated	Horizontal 🖪 Horizon	tal 6A 🛛 Vertical	Depth Type	Deep 🖪 Shallow
Type of Operation	🗆 Deepen 📲 Drill 🗆	Plug Back 🛛 🗆 Red	rilling 🗆 Rework 📕	Stimulate
Well Type 🗆 Brine Disposal 🗆 C	BM Gas □Oil □Sec	condary Recovery	Solution Mining	ige 🗆 Other
Type of Completion Single Drilled with Cable Rotary Drilling Media Surface hole Production hole Air Mud Mud Type(s) and Additive(s) Surface - Drill Water; Interme	Air □ Mud ■Fresh Wa □ Fresh Water □ Brine	e	e hole 🗆 Air 🛢 Mud	
Date permit issued11/14/13	Date unning conn	nenced 09/02/1	Date drilling cea	
Date completion activities began _	04/13/15	_ Date completion ac	ctivities ceased 0	5/04/15
Verbal plugging (Y/N)N/A	_ Date permission granted	d	Granted by	
Please note: Operator is required t	o submit a plugging applic	ation within 5 days of	verbal permission to plug	g
Freshwater depth(s) ft 7	'63' estimated	Open mine(s) (Y/N)	depthsoFIVED	N
	50' estimated		Keblenk and Ga	as N
Coal depth(s) ft	N	Cavern(s) encounter	ed (Y/N) depths	N
Is coal being mined in area (Y/N)	N		AUG 1 1 2015	
		Env	WV Department of vironmental Protein	Clion
				10/30/20

## WR-35 Rev. 8/23/13

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API 47- 103	02932		Farm name_	KUHN, M	IICHAEL (	<b>G</b> .	We	ll numt	er_MIC	HAEL	KUHN UNIT 2H
CASING STRINGS	Hole Size	Cas Siz	-	Depth	New or Used	Grade wt/ft		Basket Depth(s			ment circulate (Y/ N) ide details below*
Conductor	24"		1	100'	NEW	T	94#	Depuid	·		
Surface	17 1/2"			807'	NEW		5; 54.5#		<u></u>	Y 2	7.9 bbls to surface
Coal							, •	. <u> </u>			
Intermediate 1	12 1/4"	<u>م</u>	5/8"	2850'	NEW	l	5; 36#				trace to surface
Intermediate 2						<b>0</b> -0	0,00#				
Intermediate 3											
Production	8 1/2"	5	1/2" 1	3437'	NEW	P.1	10; 20#			N	o, TOC est 1277
Tubing	4 5/8"			761'	NEW						5, 100 est 1277
Packer type and d		<u> </u>	iet Packer set at		14244	l					
Comment Details	Class/Type	,	Number	Slurr		Yield	Volume		Cemen	ıt	woc
DATA	of Cement		of Sacks	wt (pp	g) (f	1 <sup>3</sup> /sks)	<u>(ft]</u>		Top (M	D)	(hrs)
Conductor Surface				<u> </u>					<u> </u>		
Coal	Class A		320	15.8		2.31	739		Surfac	же	31 hrs
Intermediate 1											
Intermediate 2	Class A		450	15.8		2.31	1040		Surfac	æ	19.5 hrs
Intermediate 3											
Production									4077	•	• 0 h
Tubing	Class A		2300	13.5		1.29	2967		1277		>8 hrs
Drillers TD (ft Deepest forma Plug back pro	tion penetrated		LLUS		Loggers T Plug back						
Kick off depth Check all wire		C	•	density resistivity	□ deviat ■ gamm	ed/directi a ray		induction temper		⊡soni	ic
Well cored	Yes 🛢 No		Conventional	Sidev	vall	W	ere cutting	s colle	cted 🗆	Yes	■ No
DESCRIBE T	HE CENTRAI	LIZER F	PLACEMENT	USED FO	R EACH C.	ASING S	TRING _				
Surface: 1 Centralizer	r with stop collar 10 ft &	ibove floats	hoe. One single bow ev	ery joint to 100f	l below surface.						
-				-							joints to 100 ft below surface.
Procoution: 1 contrailzor	wr stop collar 1011 abovo sn	OB. 1 CONTRACT	ter 10/1 800/6 1021 00/27. 1 C	cnualizer every joir	it (iteating) until KOP.	I CERUALZES EVER	A 2 losus (segoud) (	anai 200a ensa	no monimediate	BROB. 1 CER	ralizer 50ft below mandrel hanger.
WAS WELL C	COMPLETED	AS SH	OT HOLE	Yes 🖷	No Di	ETAILS					
WAS WELL C		OPEN	HOLE? 🛚 Y	es 🗆 N	o DET			SIVEI Stan	U HTOBER	48 PER	FS PER STAGE
WERE TRAC	ERS USED	⊐ Yes	No TY	PE OF T	RACER(S)	USED _	AUG I	1 20	15		
						W Envi	IV Dep ronmer	artmontal P	ent of rotect	ion	10/30/201

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## $\mathsf{Page}\,\underline{2}\,\mathsf{of}\,\underline{5}$

WR-35 Rev. 8/23/13

API 47- 103 \_ 02932

## Farm name\_\_\_\_KUHN, MICHAEL G.

\_\_\_\_\_Well number\_MICHAEL KUHN UNIT 2H

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD fl.	Number of Perforations	Formation(s)
1	04/13/15	13,129	12949	48	MARCELLUS
2	04/14/15	12889	12709	48	MARCELLUS
3	04/14/15	12649	12469	48	MARCELLUS
4	04/15/15	12409	12229	48	MARCELLUS
5	04/15/15	12169	11989	48	MARCELLUS
6	04/16/15	11929	11749	48	MARCELLUS
7	04/16/15	11629	11479	48	MARCELLUS
8	04/17/15	11449	11269	48	MARCELLUS
9	04/17/15	11209	11029	48	MARCELLUS
10	04/18/15	10969	10789	48	MARCELLUS
11	04/19/15	10729	10549	48	MARCELLUS
12	04/19/15	10489	10309	48	MARCELLUS
13	04/20/15	10249	10309	48	MARCELLUS
14	04/20/15	10009	9829	48	MARCELLUS
15	04/21/15	9769	9589	48	MARCELLUS
16	04/21/15	9529	9349	48	MARCELLUS

PERFORATION RECORD

Please insert additional pages as applicable.

#### STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage	Stimulations	Ave Pump	Ave Treatment	Max Breakdown		Amount of	Amount of	Amount of Nitrogen/other (units)
No.	Date	Rate (BPM)	Pressure (PSI)	Pressure (PSI)	ISIP (PSI)	Proppant (lbs)	Water (bbls)	Nitrogenvourer (units)
1	04/13/15	80	7863	N/A	4529	441,700	7682	
2	04/14/15	84	8214	6269	5235	441,700	7283	
3	04/14/15	83	8238	7413	4975	441,700	7291	
4	04/15/15	84	8227	7203	6585	441,700	7201	
5	04/15/15	84	8312	7807	6312	341,700	6138	
6	04/16/16	85	7817	7218	5394	441,700	7155	
7	04/16/15	85	7902	6610	4582	441,700	7157	
8	04/17/15	85	7838	6886	5486	441,700	7215	
9	04/17/15	85	7981	6503	4795	436,700	6973	
10	04/18/15	85	7675	6905	4914	441,700	7163	
11	04/19/15	85	7431	6984	4664	441,700	7508	
12	04/19/15	85	7472	7456	4857	441,700	6984	
13	04/20/15	84	7621	7408	5569	441,700	6963	
14	04/20/15	85	7920	6921	5360	352,500	6350	
15	04/21/15	85	7682	6848	5195	44E.00EI		
16	04/21/15	85	7553	6554	5930 Of	1437001	an6950as	

Please insert additional pages as applicable.

AUG 11 2015

WV Department of Environmental Protection 10/30/2015 WR-35 Rev. 8/23/13

API 47- 103 . 02932	Farm name KUHN, MICHAEL G.	Well number MICHAEL KUHN UNIT 2H
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#### PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
17	04/22/15	9289'	9103'	48	MARCELLUS
18	04/22/15	9049'	8869'	48	MARCELLUS
19	04/23/15	8809'	8629'	48	MARCELLUS
20	04/23/15	8569'	8389'	48	MARCELLUS
		-			
	<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)
17	04/22/15		7326	6378	5972	441,700	9362	
18	04/22/15	86	7519	6140	4985	441,700	6808	
19	04/23/15	85	7589	6594	4870	441,700	6896	
20	04/23/15	.85	7098	5940	5970	441,700	6909	
							<u> </u>	
						<u> </u>		
					<u> </u>			
							EIVED	
				ļ		Office of (	pil and G	as
	·					ALLC	1 2015	

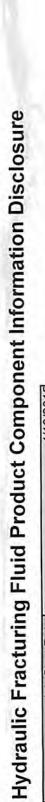
Please insert additional pages as applicable.

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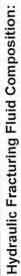
WR-35 Rev. 8/23/13								Page <u>5</u> of <u>5</u>
API 47- 103	- 02932	Farm	name_KUHN,	MICHAEL	_ G.	Well numb	er MICHAEL	KUHN UNIT 2H
	FORMATION(		DEPTHS					
MARCELLUS		<u> </u>	7077'	_TVD	8223'	MD		
		<u> </u>						
<u></u>		·						
Please insert ad	ditional pages a	s applicable.						
GAS TEST	🗆 Build up 🛛	Drawdown	Open Flow		OIL TEST	Flow 🗆 Pun	np	
SHUT-IN PRE	SSURE Surf	ace	_psi Botto	m Hole	psi	DURATION	OF TEST	hrs
OPEN FLOW								
	mcf	pd	bpd	_ bpd _	bpd	Estimated	Orifice	🗆 Pilot
LITHOLOGY/	ТОР	BOTTOM	ТОР	BOTTOM	1			
FORMATION	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN	FT DESCRIBE	ROCK TYPE AN	D RECORD QUA	NTITYAND
	NAME TVD	TVD	MD	MD	TYPE OF FL	UID (FRESHW	ATER, BRINE, OI	L, GAS, H <sub>2</sub> S, ETC)
	0		0	_				
Big Injun	2621'	2273'	2621'	2273'		S	ANDSTONE	
MIDDLESEX	7725'	7469'	7726'	7779'			SHALE	
WEST RIVER	7469'	7559'	7779'	7900'			SHALE	
GENESEO	7559'	7583'	7900'	7937'		SHAL	E, GAS SHOW	
TULLY	7583'	7607'	7937'	7979'		CARBO	NACEOUS SHAL	E
HAMILTON	7607'	7707'	7979'	8223			SHALE	
MARCELLUS	7707'	_	8223'	-	SH	IALE, GAS THI	ROUGHOUT FO	ORMATION
Please insert ad	ditional pages a	s applicable.						
Drilling Contra	ctor ORION DR	ILLING						
Address	-		City			State	Zip	
Logging Compa	any HALLIBURT	ON						
Address			City			State	Zip	
		PTON						
Cementing Con			<u></u>			<b>0</b>	<b>a</b> .	
Address						_ state	Zip	
Stimulating Con	mpany PRODU	JCERS SERVI	CE CORP					
Address 109 S.	GRAHAM STREET	Г	Citv	ZANESVIL	LE	State		1
	ditional pages a							
							Oil and G	20
Completed by	BETH DAVIDS	NC NC			_ Telephone	713-478-897	5 1.1.2015	
Signature			Title R	EGULATORY	YADVISOR	^Date	88/03/15 <sup>13</sup>	

Submittal of Hydraulic Fracturing Chemical Disclosure Information

Attach copy of NACEDepartment of Environmental Protection 10/30/2015



0	Total Base Non Water Volume:
5,760,216	Total Base Water Volume (gal):
7,696	True Vertical Depth:
ON	Federal/Tribal Well:
NAD83	Datum:
39.61520900	Latitude:
-80.53097900	Longitude:
Michael Kuhn Unit 2	Well Name and Number
Statoil USA Onshore Properties Inc.	Operator Name:
47-103-02932-00-00	API Number:
Wetzel	County:
West Virginia	State:
4/23/2015	Job End Date:
4/13/2015	Job Start Date:











Oil & Gas





Trade Name         Supplier         Purpose         Ingrediant         Maximum         Maximum         Maximum           Trade Name         Supplier         Purpose         Ingrediant         Number         Chemical         Maximum         Maximum           Mater         Company 1         Carrier Service         Additive         Additive         Additive         Additive         Additive         Additive         H F Fluid         Comments           Nater         Company 1         Earle Substrate         NA         100.0000         83.5568/nme         Additive         Additive         Additive         Comments         Fluid         Comments	A STATE AND A STAT							
Company 1         Campany 1 <thcampany 1<="" th=""> <thcampany 1<="" th=""> <thc< td=""><td>Trade Name</td><td>Supplier</td><td>Purpose</td><td>Ingredients</td><td>Chemical Abstract Service Number (CAS #)</td><td></td><td>Maximum Ingredient Concentration in HF Fluid (% by mass)**</td><td>Comments</td></thc<></thcampany></thcampany>	Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)		Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Amount         Nature         7732-18-5         100.0000         8           Sand (Proppant)         PSC         Proppant         100.0000         1           PRO GEL 4.0L         Producers Service         Pelling Agent         NA         100.0000         1           PRO GEL 4.0L         Producers Service         Gelling Agent         Silica Substrate         NA         100.0000         1           PRO GEL 4.0L         Producers Service         Gelling Agent         Silica Substrate         NA         100.0000         1           PRO GEL 4.0L         Producers Service         Gelling Agent         Silica Substrate         NA         100.0000         1           Producers Service         Gelling Agent         Silica Substrate         NA         56.00000         56.00000           Producers Service         Acidizing         Nonionic Suffactant         50028-78-6         5.00000         5.00000           Producers Service         Acidizing         Nonionic Suffactant         50028-78-6         5.00000         5.00000           Producers Service         Ficion Reducer         Nonionic Suffactant         50028-78-6         5.00000         1.5.0000           Producers Service         Ficion Reducer         Nonionic Suffactant         50028-78-6         5	Water	Company 1	Carrier/Base Fluid		No. of the second			
Sand (Proppant)         PSC         Proppant         Internation         NA         100.0000         1           PRO GEL 4.01.         Producers Service         Gelling Agent         Silica Substrate         NA         100.0000         1           PRO GEL 4.01.         Producers Service         Gelling Agent         Silica Substrate         NA         100.0000         1           PRO GEL 4.01.         Producers Service         Gelling Agent         Silica Substrate         NA         100.0000         1           PRO GEL 4.01.         Producers Service         Gelling Agent         Silica Substrate         NA         50.0000         50.0000           PRO FR 2000         Free Service         Edon         006-30-0         50.0000         50.0000           Producers Service         Edon         Nonionic Surfactant         50828-78-6         5.0000         5.0000           PRO FR 2000         Producers Service         Acidizing         Nonionic Surfactant         50828-78-6         5.0000         5.0000           PRO FR 2000         Producers Service         Friction Reducer         Nonionic Surfactant         50828-78-6         5.0000         5.0000           PRO FR 2000         Producers Service         Friction Reducer         Nonionic Surfactant         5.0000				Water	7732-18-5	100.0000	83.55886Nc	one
PRO GEL 4.0L         Producers Service         Selling Agent         Na         100.0000         1           PRO GEL 4.0L         Producers Service         Gelling Agent         Distillates (Petroleum).         64742-47-8         65.00000         65.00000           PRO GEL 4.0L         Corp         Vertice         Gelling Agent         Distillates (Petroleum).         64742-47-8         65.00000         65.00000           Producers Service         Activity Service         Nonyohnenol. Ethoxylate         9016-45-9         5.00000         5.00000           Producers Service         Acidizing         Nonionic Surfactant         50328-78-6         5.00000         5.00000           Producers Service         Acidizing         Nonionic Surfactant         50328-78-6         5.00000         7.50000           Producers Service         Friction Reducer         Nonionic Surfactant         50328-78-6         5.00000         7.50000           PRO FR 2000         Opp         Producers Service         Friction Reducer         Nonionic Surfactant         50328-78-6         5.00000           PRO FR 2000         Opp         Nonionic Surfactant         50328-78-6         5.00000         5.00000           PRO FR 2000         Opp         Nonionic Surfactant         50328-78-6         5.00000         5.5.	Sand (Proppant)	PSC	Proppant					
PRO GEL 4.0L       Producers Service       Geling Agent       65.0000         Corp       Corp       Distillates (Petroleum),       64742-47-8       65.0000         Androlecers Service       Corp       Distillates (Petroleum),       64742-47-8       65.0000         Androlecers Service       Exercention       Distillates (Petroleum),       600-30-0       50.0000         Androlecers Service       Exercention       Nonionic Surfactant       50828-78-6       5.0000         Androchleint Acid       Froducers Service       Acidizing       Nonionic Surfactant       50828-78-6       5.0000         Androchleint Acid       Terraton       Nonionic Surfactant       50828-78-6       5.0000       5.0000         Androchleint Acid       Terraton       50828-78-6       5.0000       5.0000       5.0000         Androchleint Acid       Terraton       Terraton       7647-01-0       7.5000       7.5000 <t< td=""><td></td><td></td><td></td><td>Silica Substrate</td><td>NA</td><td>100.00000</td><td>15.03482Nc</td><td>one</td></t<>				Silica Substrate	NA	100.00000	15.03482Nc	one
Mediates         Distillates         Petroleum), e3742-47-8         65.0000           Norloctreated light         9000-30-0         50.0000           Nonylphenol, Ethoxylate         9016-45-9         50.0000           Nonsinic Surfactant         50828-78-6         5.00000           Nonionic Surfactant	PRO GEL 4.0L	Producers Service Corn	Gelling Agent					
Nonviphenol         B000-30-0         50.0000           Nonviphenol         B000-30-0         50.0000           Nonviphenol         Sold         500000           Nonviphenol         Sold         Sold         Sold           Nonviphenol         Surfactant         B0828-78-6         5.00000         5.00000           Nonviphenol         Nonionic Surfactant         B0828-78-6         5.00000         5.00000           Nonviphenol         Nonionic Surfactant         B0828-78-6         5.00000         5.00000           Nonviphenol         Nonviphenol         Surfactant         B0828-78-6         5.00000         5.00000           Nonvip         Surfactant         B0828-78-6         5.00000         5.00000         5.00000           Nonvip         Surfactant         B0828-78-6         5.00000         5.00000         5.00000           Nonvip         Surfactant         B0828-78-6         5.00000         5.00000         5.00000           No         Surfactant         B0828-78-6         5.00000         5.00000         5.00000           No         Surfactant         B0828-78-6         7.5000         7.5000         7.5000           No         Surfactant         B0828-78-6         7.647-8				Distillates (Petroleum), hvdrotreated light	64742-47-8	65.0000	0.08692Nc	one
ANonylphenol, Ethoxylate9016-45-95.0000Nonionic Surfactant50828-78-65.00000Nonionic Surfactant7647-01-07.50000Nonionic Surfactant7647-01-07.50000NB 7530Nonoters ServiceFiction ReducerPetroleum DistillateNB 7530Nonoters ServiceBlocide1.3,5-thiote24.00000NB 7530Nonoters ServiceBlocide1.3,5-thiote24.00000NB 7530Nonoters ServiceBlocide1.3,5-thiote24.00000	þi			Guar Gum	0-00-30-0	20.0000	0.06686Nc	one
CENonionic Surfactant50828-78-65.00000Hydrochloric AcidIPNonionic Surfactant50828-78-65.00000Hydrochloric AcidIP15.000005.00000InstructionAcidizingInstruction11InstructionIP1111InstructionInstructionInstruction111InstructionInstructionInstruction111InstructionInstructionInstruction111InstructionInstructionInstruction111InstructionInstructionInstruction111InstructionInstructionInstruction111InstructionInstructionInstruction111InstructionInstructionInstruction111InstructionInstructionInstruction111InstructionInstructionInstruction111InstructionInstructionInstruction111InstructionInstructionInstruction111InstructionInstructionInstructionInstruction11InstructionInstructionInstructionInstruction11InstructionInstructionInstructionInstruction11InstructionInstructionInstruction <td< td=""><td>Nic W</td><td></td><td></td><td>Nonylphenol, Ethoxylate</td><td>9016-45-9</td><td>5.00000</td><td>0.00669Nc</td><td>one</td></td<>	Nic W			Nonylphenol, Ethoxylate	9016-45-9	5.00000	0.00669Nc	one
Marchloric Acid     Red     Nonionic Surfactant     50828-78-6     5.00000       Marchloric Acid     Red     6072     7.00000     7.00000       PRO FR 2000     Producers Service     Friction Reducer     7.50000     7.50000       PRO FR 2000     Producers Service     Friction Reducer     8.00000     7.50000       PRO FR 2000     Producers Service     Friction Reducer     2.00000       PRO FR 2000     Producers Service     Friction Reducer     2.00000       MB 2530     M Producers Service     Biocide     1.3,5-thiadiazine-2.thione     24.00000	3	B		Nonionic Surfactant	60828-78-6	5.00000	0.00669Nc	one
Hydrochloric Acid       Hydrochloric Acid       Form       7547-01-0       7.50000         715%       Corp       Hydrochloric Acid       7647-01-0       7.50000         PRD FR 2000       Producers Service       Friction Reducer       Petroleum Distillate       064742-47-8       24.00000         MB 2530       Producers Service       Blocide       Tetrahydro-3, 5-dimethyl-2H-       533-74-4       24.00000	of	8-1		Nonionic Surfactant	60828-78-6	5.00000	0.00669Nc	one
Producers Service     Friction Reducer     Hydrochloric Acid     7647-01-0     7.50000       Producers Service     Friction Reducer     Petroleurn Distillate     064742-47-8     24.00000       MB_2530     0     Producers Service     Biocide     Tetrahydro-3, 5-dimethyl-2H-     533-74-4     24.00000		Throducers Service	Acidizing					
Orducers Service     Friction Reducer       Corp     Petroleum Distillate       O     Doducers Service       Biocide     Petroleum Distillate       O     Doducers Service       D     Finducers Service       Finducers Service     Biocide       Tetrahydro-3, 5-dimethyl-2H-       S33-74-4     24.00000	i i	VE		Hydrochloric Acid	7647-01-0	7.50000	0.09052Nc	one
O         Detroleum Distillate         064742-47-8         24.00000           O         Producers Service         Biocide         24.00000           Corp         Corp         Tetrahydro-3, 5-dimethyl-2H-         533-74-4         24.00000           1,3,5-thiadiazine-2-thione         1,3,5-thiadiazine-2-thione         24.00000         1		10	Friction Reducer					
Orbutucers Service         Biocide         Early and a contract of the contract of th	Gi nt			Petroleum Distillate	064742-47-8	24.00000	NZ2600.0	one
Tetrahydro-3, 5-dimethyl-2H- 533-74-4 24.00000 1,3,5-thiadiazine-2-thione			Biocide					
	on-			Tetrahydro-3, 5-dimethyl-2H- 1,3,5-thiadiazine-2-thione	533-74-4	24.0000		one

103.02932

Environmental

10/30/2015

			Sodium Hydroxide	1310-73-2	4,00000	0.00096None	
PROHIB II	Producers Service	Inhibitor					
	2		Dimethylcocoamine, bis (chloroethyl)ether, diquaternary ammonium salt	68607-28-3	60.0000	0.00068None	
			Glycol Ethers	111-76-2	40.0000	0.00045None	
			Ethylene Glycol	107-21-1	40,00000	0.00045None	
			Methanol	67-56-1	30.0000	0.00034None	
-		1	Propargyl Alcohol	107-19-7	30.0000	0.00034None	
		-	Ethoxylated Nonylphenol	68412-54-4	10.00000	0.00011None	
PRO BREAKER 4	Producers Service Corn	Breaker					
	400		Sucrose	57-50-1	40.00000	0.00007None	
			Ethylene Glycol	107-21-1	40.0000	0.00007None	
			Sodium Bicarbonate	144-55-8	1.00000	0.00000None	
			Hexamethylenetetramine	100-97-0	1.00000	0.00000None	7
			Polyether Polyol	9003-11-6	1.00000	0.00000None	
			Proprietary Ingredient	Proprietary	1,00000	0.00000None	
			Proprietary Ingredient	Proprietary	1.00000	0.00000None	
			Proprietary Ingredient	Proprietary	1,00000	0.00000None	
Ingradiants shown a	noredients shown above are subject to 29 CFR 1910 1200(i) and	CFR 1910.1200(i)	and appear on Material Safely Data Sheets (MSDS), Ingredients shown below are Non-MSDS.	eets (MSDS), Ingredien	ts shown below are Non-N	ASDS.	
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Total Water Volume sources may include tresh water, produced water, and/or recycled water
 Information is based on the maximum potential for concentration and thus the total may be over 100%

Nole: 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)

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WV Department of Environmental Protection

10/30/2015

## 103.02932



August 3, 2015

West Virginia Department of Environmental Protection Office of Oil and Gas 601 57<sup>th</sup> Street SE Charleston, WV 25304

Reference: Well Operator's Report of Well Work Michael Kuhn Unit Well No. 2H Wetzel County

Gentlemen:

Statoil USA Onshore Properties Inc. herein submits the Well Operator's Report of Well Work and other applicable documentation for the Michael Kuhn Unit 2H well. Please note that this well is shut in and has not begun flowing back. An updated WR-35 will be submitted once flow back tests have been run. Enclosed please find the following documents:

- One (1) original and one (1) copy of Well Operator's Report of Well Work (Form WR-35)
- One (1) "As-drilled" plat
- One (1) Profile plat
- One (1) Deviation survey
- One (1) Frac Focus Disclosure

Should you have any questions or require additional information please contact the undersigned at 713-478-8975 or betda@statoil.com.

Sincerely,

Beth Davidson Regulatory Advisor – Marcellus Asset

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10/30/2015

