

04/05/2019



Antero Resources
1615 Wynkoop Street
Denver, CO 80202
Office 303.357.7310
Fax 303.357.7315

April 4, 2019

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street
Charleston, WV 25304

To Whom It May Concern:

Please find enclosed the Well Operator's Report of Well Work, Form WR-35 (including As-Drilled Survey Plat, Directional Survey and FracFocus report), Discharge Monitoring Report Form WR-34 and corresponding logs for the following wells:

- Parachute Unit 1H (API # 47-095-02429)—Stonefly Pad
- Parachute Unit 2H (API # 47-095-02429)—Stonefly Pad
- Parachute Unit 3H (API # 47-095-02433)—Stonefly Pad
- Copper John Unit 1H (API # 47-095-02404)—Stonefly Pad
- Copper John Unit 2H (API # 47-095-02405)—Stonefly Pad
- Copper John Unit 3H (API # 47-095-02406)—Stonefly Pad
- Pheasant Unit 1H (API # 47-095-02434)—Stonefly Pad
- Pheasant Unit 2H (API # 47-095-02435)—Stonefly Pad
- Pheasant Unit 3H (API # 47-095-02437)—Stonefly Pad
- Tauscher Unit 1H (API # 47-095-02357)—Stonefly Pad
- Tauscher Unit 2H (API # 47-095-02407)—Stonefly Pad
- Tauscher Unit 3H (API # 47-095-02456)—Stonefly Pad

If you have any questions please feel free to contact me at (303) 357-7223.

Sincerely,

A handwritten signature in black ink, appearing to read "MGriffith", written over a light blue horizontal line.

Megan Griffith
Permitting Agent
Antero Resources Corporation

Enclosures

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

API 47 - 095 - 02437 County Tyler District Centerville
 Quad Middlebourne 7.5' Pad Name Stonefly Pad Field/Pool Name -----
 Farm name Steven McPeek et al Well Number Pheasant Unit 3H
 Operator (as registered with the OOG) Antero Resources Corporation
 Address 1615 Wynkoop Street City Denver State CO Zip 80202

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
 Top hole Northing 4363161m Easting 506666m
 Landing Point of Curve Northing 4363343.52m Easting 506994.31m
 Bottom Hole Northing 4365719m Easting 506155m

Elevation (ft) 982' GL Type of Well New Existing Type of Report Interim Final
 Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
 Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
 Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
 Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
 Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
 Production hole Air Mud Fresh Water Brine

Mud Type(s) and Additive(s)

Air - Foam & 4% KCL

Mud - Polymer

Date permit issued 3/15/2017 Date drilling commenced 8/29/2017 Date drilling ceased 1/31/2018
 Date completion activities began 6/13/2018 Date completion activities ceased 12/2/2018
 Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 52', 400', 457' Open mine(s) (Y/N) depths No
 Salt water depth(s) ft 1425', 1431' Void(s) encountered (Y/N) depths No
 Coal depth(s) ft 52', 457' Cavern(s) encountered (Y/N) depths No
 Is coal being mined in area (Y/N) No

Reviewed by:

WR-35
Rev. 8/23/13

API 47-095 - 02437 Farm name Steven McPeek et al Well number Pheasant Unit 3H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	24"	20"	95'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	616'	New	54#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2613'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	15284'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6664'		4.7#, N-80		
Packer type and depth set		N/A					

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Class A	204 sx	15.6	1.18	244	0'	8 Hrs.
Surface	Class A	511 sx	15.6	1.19	402	0'	8 Hrs.
Coal							
Intermediate 1	Class A	898 sx	15.6	1.18	1047	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	796sx (Lead) 1116 sx (Tail)	13.5 (Lead), 15.2 (Tail)	1.53 (Lead), 1.83 (Tail)	2819	~500' into intermediate casing	8 Hrs.
Tubing							

Drillers TD (ft) 15284' MD, 6329' TVD (BHL), 6406' (Deepest Point Drilled) Loggers TD (ft) 15284' MD

Deepest formation penetrated Marcellus Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 6100'

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

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

Conductor - 0

Surface - 1 above guide shoe, 1 above insert float, 1 every 4th joint to surface

Intermediate - 1 above float joint, 1 above float collar, 1 every 4th joint to surface

Production - 1 above float joint, 1 below float collar, 1 every 3rd joint to top of cement

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 N/A

WR-35
Rev. 8/23/13

API 47- 095 - 02437 Farm name Steven McPeek et al Well number Pheasant Unit 3H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
Marcellus	6352' (TOP) TVD	6732' (TOP) MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2800 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 7864 mcfpd Oil 254 bpd NGL --- bpd Water 14 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	

***PLEASE SEE ATTACHED EXHIBIT 3**

Please insert additional pages as applicable.


Drilling Contractor Frontier Drilling LLC
Address 562 Spring Run Road City Pennsboro State WV Zip 26415

Logging Company Nine Energy Services
Address 125 Museum Road City Washington State PA Zip 15301

Cementing Company C&J Energy Services
Address 1650 Hackers Creek City Jane Lew State WV Zip 26378

Stimulating Company Baker Hughes
Address 837 Philippi Pike City Clarksburg State WV Zip 26301

Please insert additional pages as applicable.

Completed by Megan Griffith Telephone 303-357-7223
Signature  Title Permitting Agent Date APR 4, 2019

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

API 47-095-02437 Farm Name Steven McPeek et al Well Number Pheasant Unit 3H					
EXHIBIT 1					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	9/13/2018	15010.24	15182.8	60	Marcellus
2	9/14/2018	14809.408	14978.768	60	Marcellus
3	9/14/2018	14608.576	14777.936	60	Marcellus
4	9/15/2018	14407.744	14577.104	60	Marcellus
5	9/15/2018	14206.912	14376.272	60	Marcellus
6	9/16/2018	14006.08	14175.44	60	Marcellus
7	9/16/2018	13805.248	13974.608	60	Marcellus
8	9/17/2018	13604.416	13773.776	60	Marcellus
9	9/20/2018	13403.584	13572.944	60	Marcellus
10	9/21/2018	13202.752	13372.112	60	Marcellus
11	9/21/2018	13001.92	13171.28	60	Marcellus
12	9/22/2018	12801.088	12970.448	60	Marcellus
13	9/22/2018	12600.256	12769.616	60	Marcellus
14	9/22/2018	12399.424	12568.784	60	Marcellus
15	9/23/2018	12198.592	12367.952	60	Marcellus
16	9/23/2018	11997.76	12167.12	60	Marcellus
17	9/23/2018	11796.928	11966.288	60	Marcellus
18	9/24/2018	11596.096	11765.456	60	Marcellus
19	9/24/2018	11395.264	11564.624	60	Marcellus
20	9/24/2018	11194.432	11363.792	60	Marcellus
21	9/25/2018	10993.6	11162.96	60	Marcellus
22	9/27/2018	10792.768	10962.128	60	Marcellus
23	9/28/2018	10591.936	10761.296	60	Marcellus
24	9/28/2018	10391.104	10560.464	60	Marcellus
25	9/29/2018	10190.272	10359.632	60	Marcellus
26	9/29/2018	9989.44	10158.8	60	Marcellus
27	9/30/2018	9788.608	9957.968	60	Marcellus
28	9/30/2018	9587.776	9757.136	60	Marcellus
29	9/30/2018	9386.944	9556.304	60	Marcellus
30	10/1/2018	9186.112	9355.472	60	Marcellus
31	10/1/2018	8985.28	9154.64	60	Marcellus
32	10/2/2018	8784.448	8953.808	60	Marcellus
33	10/2/2018	8583.616	8752.976	60	Marcellus
34	10/3/2018	8382.784	8552.144	60	Marcellus
35	10/3/2018	8181.952	8351.312	60	Marcellus
36	10/4/2018	7981.12	8150.48	60	Marcellus
37	10/4/2018	7780.288	7949.648	60	Marcellus
38	10/5/2018	7579.456	7748.816	60	Marcellus
39	10/6/2018	7378.624	7547.984	60	Marcellus
40	10/6/2018	7177.792	7347.152	60	Marcellus
41	10/6/2018	6976.96	7146.32	60	Marcellus
42	10/7/2018	6776.128	6945.488	60	Marcellus

API 47-095-02437 Farm Name Steven McPeek et al Well Number Pheasant Unit 3H

EXHIBIT 2

Stage No.	Stimulations Date	Avg Pump Rate	Avg Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/ other (units)
1	9/13/2018	77.33682	7406.533	5724	4269	307650	8551	N/A
2	9/14/2018	73.96764	7496.745	5214	3594	371400	9920	N/A
3	9/14/2018	74.81223	7312.746	5627	4299	394050	9299	N/A
4	9/15/2018	76.58851	7383.228	5789	4130	408050	8254	N/A
5	9/15/2018	76.70017	7295.944	5949	3970	407400	7992	N/A
6	9/16/2018	75.53087	7284.506	6102	4489	406850	8315	N/A
7	9/16/2018	76.61538	7154.299	6358	4216	391900	7764	N/A
8	9/17/2018	77.5384	7329.388	6132	4464	407500	7946	N/A
9	9/20/2018	74.09091	7374.364	6406	4569	402100	7937	N/A
10	9/21/2018	77.48276	7303.272	6418	3859	407750	7883	N/A
11	9/21/2018	76.57427	7611.716	5570	4094	262050	7199	N/A
12	9/22/2018	76.40694	7209.946	6309	4368	408400	7944	N/A
13	9/22/2018	76.98417	7364.708	6308	3690	408250	8137	N/A
14	9/22/2018	77.9	7250	6616	3875	408000	7870	N/A
15	9/23/2018	76.53919	7171.858	6330	3885	407150	8284	N/A
16	9/23/2018	70.97625	7265.093	5888	4061	410000	9816	N/A
17	9/23/2018	76.98061	7387.326	6434	4425	401350	7790	N/A
18	9/24/2018	75.83274	7232.72	6500	4321	405800	8011	N/A
19	9/24/2018	77.01971	7054.876	6506	4843	406200	7958	N/A
20	9/24/2018	78.17754	7028.727	6571	4029	407400	7774	N/A
21	9/25/2018	75.15684	7077.212	6282	4048	404420	7953	N/A
22	9/27/2018	76.42112	6905.512	6072	4307	406800	7843	N/A
23	9/28/2018	62.59381	7463.562	6383	4483	406500	12305	N/A
24	9/28/2018	74.65028	6987.814	6320	4082	407100	8012	N/A
25	9/29/2018	76.96696	7107.423	6491	5125	406250	7971	N/A
26	9/29/2018	77.32431	6935.498	6381	4401	406300	7880	N/A
27	9/30/2018	78.65551	6985.211	6002	4363	405900	7858	N/A
28	9/30/2018	72.30049	7085.746	6371	4482	404700	9161	N/A
29	9/30/2018	74.67537	6799.596	6230	4127	405850	7740	N/A
30	10/1/2018	75.87072	6707.859	6329	4000	406100	7744	N/A
31	10/1/2018	77.25981	6806.815	5876	4087	403700	7812	N/A
32	10/2/2018	68.42245	6722.872	6655	5031	411250	9574	N/A
33	10/2/2018	63.34217	6450.234	6084	4642	397100	7961	N/A
34	10/3/2018	74.3	6764	6303	4430	405550	7868	N/A
35	10/3/2018	77.47909	6699.455	6261	3992	406300	7738	N/A
36	10/4/2018	70.47364	7024.182	6340	3765	414540	7706	N/A
37	10/4/2018	75.25636	6852.727	6964	4260	394900	7706	N/A
38	10/5/2018	73.67727	6508.455	6547	4229	407600	7736	N/A
39	10/6/2018	76.18818	6513.364	6655	4294	406300	7817	N/A
40	10/6/2018	76.36636	6409.909	6343	5408	407150	7691	N/A
41	10/6/2018	75.78727	6483.455	6718	3783	407300	8085	N/A
42	10/7/2018	77.52375	6634.5	6681	4110	407500	8915	N/A
	AVG=	75.0	7,100	6,227	4,245	15,130,110	313,212	TOTAL

API 47-095-02437 Farm Name Steven McPeck et al Well Number Pheasant Unit 3H				
EXHIBIT 3				
LITHOLOGY/ FORMATION	TOP DEPTH (TVD) From Surface	BOTTOM DEPTH (TVD) From Surface	TOP DEPTH (MD) From Surface	BOTTOM DEPTH (MD) From Surface
Silty Sandstone	0	205	0	205
Sandy siltstone	205	310	205	310
Sandstone	310	605	310	605
Silty Sandstone	605	785	605	785
limey siltstone	785	960	785	960
silty sandstone, tr. coal	960	1,110	960	1,110
silty sandstone	1,110	1,505	1,110	1,505
silty shale	1,505	1,635	1,505	1,635
sandstone, tr coal	1,635	1,645	1,635	1,645
silty sandstone	1,645	1,685	1,645	1,685
sandstone	1,685	1,760	1,685	1,760
sandy shale	1,760	1,785	1,760	1,785
shaly sand	1,785	1,868	1,785	1,892
Big Lime	1,883	2,015	1,907	2,045
Big Injun	2,015	2,484	2,045	2,537
Gantz Sand	2,484	2,617	2,537	2,675
Fifty Foot Sandstone	2,617	2,715	2,675	2,776
Gordon	2,715	3,058	2,776	3,132
Fifth Sandstone	3,058	3,128	3,132	3,204
Bayard	3,128	3,490	3,204	3,580
Warren	3,490	3,876	3,580	3,979
Speechley	3,876	4,573	3,979	4,702
Balltown	4,182	4,964	4,297	5,108
Bradford	4,573	4,964	4,702	5,108
Benson	4,964	5,250	5,108	5,405
Alexander	5,250	5,743	5,405	5,916
Rhinstreet	5,719	6,052	5,892	6,263
Sycamore	6,052	6,211	6,263	6,471
Middlesex	6,211	6,300	6,471	6,610
Burkett	6,300	6,327	6,610	6,666
Tully	6,327	6,352	6,666	6,732
Marcellus	6,352	NA	6,732	NA

*Please note Antero determines 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.

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	9/13/2018
Job End Date:	10/7/2018
State:	West Virginia
County:	Tyler
API Number:	47-095-02437-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Pheasant Unit 3H
Latitude:	39.41787200
Longitude:	-80.92273100
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,330
Total Base Water Volume (gal):	15,053,370
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid 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	Supplied by Operator	Base Fluid					
			Water	7732-18-5	70.00000	87.83652	
DWP-641	CWS	Friction Reducer					
				Listed Below			

CI-9100G	CWS	Corrosion Inhibitor											
					Listed Below								
DAP-103	CWS	Iron Control											
					Listed Below								
Calbreak 5501	CWS	Breaker											
					Listed Below								
DAP-902	CWS	Scale Inhibitor											
					Listed Below								
Sand (Proppant)	CWS	Propping Agent											
					Listed Below								
SaniFrac 8844	CWS	Biocide											
					Listed Below								
DWP-111	CWS	Gel Slurry											
					Listed Below								
Other Chemical (s)	Listed Above	See Trade Name (s) List											
					Listed Below								
Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients.													
					Crystalline silica (Quartz)	14808-60-7			100.00000			11.72376	
					Calcite	471-34-1			1.00000			0.07601	

				Distillates (petroleum), hydrotreated middle	64742-46-7	60.00000	0.07131	
				Guar gum	9000-30-0	60.00000	0.07131	
				Hydrochloric acid	7647-01-0	37.00000	0.06380	
				Illite	12173-60-3	1.00000	0.04117	
				Polymer	26100-47-0	45.00000	0.02288	
				Distillates (petroleum), hydrotreated light	64742-47-8	30.00000	0.01525	
				Biotite	1302-27-8	0.10000	0.01172	
				Goethite	1310-14-1	0.10000	0.01172	
				Apatite	64476-38-6	0.10000	0.01172	
				Polyethylene glycol mixture	25322-68-3	54.50000	0.00606	
				2-Propenoic acid, homopolymer, sodium salt	9003-04-7	40.00000	0.00602	
				Quaternary ammonium compounds, bis (hydrogenated tallow alkyl)dimethyl, salts with bentonite	68953-58-2	5.00000	0.00594	
				Ammonium chloride	12125-02-9	11.00000	0.00559	
				Ilmenite	98072-94-7	0.10000	0.00412	
				Ammonium Persulfate	64742-47-8	100.00000	0.00229	
				2,2-Dibromo-3-Nitripropionamide	10222-01-2	20.00000	0.00223	
				Sorbitan monooleate	1338-43-8	4.00000	0.00203	
				Oxirane, 2-methyl-, polymer with oxirane, monodecyl ether	37251-67-5	1.50000	0.00178	
				Polyethylene glycol monooleate	9004-96-0	3.00000	0.00153	
				1,2-Propanediol	57-55-6	10.00000	0.00151	
				Sorbitol tetraoleate	61723-83-9	2.00000	0.00102	
				Citric acid	77-92-9	60.00000	0.00058	
				Amines, tallow alkyl, ethoxylated	61791-26-2	1.00000	0.00051	

				Vinylidene chloride-methyl acrylate copolymer	69418-26-4	20.00000	0.00046	
				Sodium bromide	7647-15-6	4.00000	0.00045	
				Dibromoacetonitrile	3252-43-5	3.00000	0.00033	
				Alkylloxypolyethyleneoxy ethanol	84133-50-6	0.50000	0.00025	
				Acrylamide	79-06-1	0.10000	0.00005	
				Ethylene glycol	107-21-1	40.00000	0.00004	
				Diethylene glycol (mono) methyl ether	34590-94-8	20.00000	0.00002	
				Diethylene glycol	111-46-6	1.00000	0.00001	
				Ethoxylated alcohols	Proprietary	10.00000	0.00001	Proprietary CAS
				Tar bases, quinolone derivs	68513-87-1	1.00000	0.00001	
				Formic Acid	64-18-6	10.00000	0.00001	
				Cinnamaldehyde	104-55-2	10.00000	0.00001	
				Isopropanol	67-63-0	5.00000	0.00001	
				Tar bases, quinolone derivs, benzyl chloride- quaternized	72480-70-7	10.00000	0.00001	

* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

*** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

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)

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Discharge Monitoring Report
Oil and Gas General Permit

Company Name: Antero Resources Corporation
 API No: 47-095-02437 County: Tyler
 District: Centerville Well No: Pheasant Unit 3H
 Farm Name: Steven McPeek et al
 Discharge Date/s From:(MMDDYY) 01/08/19 To: (MMDDYY) 02/07/19
 Discharge Times. From: 0:00 To: 24:00
 Total Volume to be Disposed from this facility (gallons): 765,779
 Disposal Option(s) Utilized (write volumes in gallons):

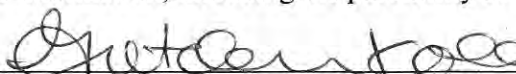
- | | | |
|---------------------------|----------------|---|
| (1) Land Application: | _____ | (Include a topographical map of the Area.) |
| (2) UIC: | <u>458,877</u> | Permit No. <u>3400923821, 3410523619, 3416729731, 3416729543, 3416729464,</u> |
| (3) Offsite Disposal: | <u>700</u> | Site Location: <u>Mud Masters</u> |
| (4) Reuse: | <u>306,202</u> | Alternate Permit Number: _____ |
| (5) Centralized Facility: | _____ | Permit No. _____ |
| (6) Other method: | _____ | (Include an explanation) |

Follow Instructions below to determine your treatment category:

- Optional Pretreatment test: n/a Cl- mg/l n/a DO mg/l
1. Do you have permission to use expedited treatment from the Director or his representative?
(Y/N) n/a If yes, who? _____ and place a four (4) on line 7.
If not go to line 2
 2. Was Frac Fluid or flowback put into the pit? (Y/N) n/a If yes, go to line 5. If not, go to line 3.
 3. Do you have a chloride value pretreatment (see above)? (Y/N) n/a If yes, go to line 4
If not, go to line 5.
 4. Is the Chloride level less than 5000 mg/l? (Y/N) n/a If yes, then enter a one (1) on line 7.
 5. Do you have a pretreatment value for DO? (See above) (Y/N) n/a If yes, go to line 6
If not, enter a three (3) in line 7.
 6. Is the DO level greater than 2.5 mg/l?(Y/N) n/a If yes, enter a two (2) on line 7. If not, enter a three (3) on line 7.
 7. n/a is the category of your pit. Use the Appropriate section.
 8. Comments on Pit condition: n/a No pit on site.

Name of Principal Exec. Officer: Gretchen Kohler
 Title of Officer: Senior Environmental and Regulatory Manager
 Date Completed: 3/18/19

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.



 Signature of a Principal Exec. Officer or Authorized agent.

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Category 1
Sampling Results
API No : _____

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	5	_____	N/A	N/A	Days
Fe	6	_____	6	_____	mg/l
D.O.	2.5	_____	2.5	_____	mg/l
Settleable Sol.	0.5	_____	0.5	_____	mg/l
Cl	5,000	_____	5,000	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**		_____	Monitor	_____	mg/l
Oil and Grease		_____	Monitor	_____	mg/l
Total Al***		_____	Monitor	_____	mg/l
TSS		_____	Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume		_____	Monitor	_____	Gal
Flow		_____	Monitor	_____	Gal/min
Disposal Area		_____	Monitor	_____	Acres

*** Al is only reported if the pH is above 9.0

Category 2
Sampling Results
API No : _____

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	10	_____	N/A	N/A	Days
Fe	6	_____	6	_____	mg/l
D.O.	2.5	_____	2.5	_____	mg/l
Settleable Sol.	0.5	_____	0.5	_____	mg/l
Cl*	12,500	_____	12,500	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**		_____	Monitor	_____	mg/l
Oil and Grease		_____	Monitor	_____	mg/l
Total Al***		_____	Monitor	_____	mg/l
TSS		_____	Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume		_____	Monitor	_____	Gal
Flow		_____	Monitor	_____	Gal/min
Disposal Area		_____	Monitor	_____	Acres

* Can be 25,000 with inspector's approval,

(Inspector's signature): _____

Date: _____

** Include a description of your aeration technique.

Aeration Code: _____

*** Al is only reported if the pH is above 9.0

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Category 3
Sampling Results
API No : _____

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	20	_____	N/A	N/A	Days
Fe	6	_____	6	_____	mg/l
D.O.	2.5	_____	2.5	_____	mg/l
Settleable Sol.	0.5	_____	0.5	_____	mg/l
Cl*	12,500	_____	12,500	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**		_____	Monitor	_____	mg/l
Oil and Grease		_____	Monitor	_____	mg/l
Total Al***		_____	Monitor	_____	mg/l
TSS		_____	Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume		_____	Monitor	_____	Gal
Flow		_____	Monitor	_____	Gal/min
Disposal Area		_____	Monitor	_____	Acres

* Can be 25,000 with inspector's approval,

(Inspector's signature): _____

Date: _____

** Include a description of your aeration technique.

Aeration Code: _____

*** Al is only reported if the pH is above 9.0.

Category 4
Sampling Results
API No: _____

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	1	_____	N/A	N/A	Days
Fe	Monitor	_____	Monitor	_____	mg/l
D.O.	Monitor	_____	Monitor	_____	mg/l
Settleable Sol.	Monitor	_____	Monitor	_____	mg/l
Cl*	12,500	_____	12,500	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**		_____	Monitor	_____	mg/l
Oil and Grease		_____	Monitor	_____	mg/l
TSS		_____	Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume		_____	Monitor	_____	Gal
Flow		_____	Monitor	_____	Gal/min
Activated Carbon (0.175)		_____	N/A	N/A	lb/B1
Date Site Reclaimed	N/A	N/A			10 days from dis.
Disposal Area		_____	Monitor	_____	Acres

* Can be 25,000 with inspector's approval,

(Inspector's signature): _____

Date: _____