

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 in a cursive style.

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 - 02456 County Tyler District Centerville
 Quad Middlebourne 7.5' Pad Name Stonefly Pad Field/Pool Name -----
 Farm name Steven McPeek et al Well Number Tauscher 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 4363144m Easting 506671m
 Landing Point of Curve Northing 4363028.59m Easting 507030.65m
 Bottom Hole Northing 4361029m Easting 507850m

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 12/30/2017
 Date completion activities began 6/12/2018 Date completion activities ceased 12/23/2018
 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 - 02456 Farm name Steven McPeek et al Well number Tauscher 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"	530'	New	54#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2579'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	14482'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6852'		4.7#, P-110		
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	509 sx	15.6	1.19	402	0'	8 Hrs.
Coal							
Intermediate 1	Class A	890 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) 14482' MD, 6386' TVD (BHL), 6403' (Deepest Point Drilled) Loggers TD (ft) 14482' MD

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

Plug back procedure N/A

Kick off depth (ft) 5943'

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

API 47- 095 - 02456 Farm name Steven McPeek et al Well number Tauscher Unit 3H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
*PLEASE SEE ATTACHED EXHIBIT 1					

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)
*PLEASE SEE ATTACHED EXHIBIT 2								

Please insert additional pages as applicable.

WR-35
Rev. 8/23/13

API 47- 095 - 02456 Farm name Steven McPeek et al Well number Tauscher Unit 3H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>6350' (TOP)</u> TVD	<u>6923' (TOP)</u> 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 8688 mcfpd Oil 178 bpd NGL --- bpd Water 24 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 Phillippi 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 April 4, 2019

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

API 47-095-02456 Farm Name Steven McPeek et al Well Number Tauscher Unit 3H					
EXHIBIT 1					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	10/13/2018	14208.855	14381.7	60	Marcellus
2	10/14/2018	14007.681	14177.326	60	Marcellus
3	10/14/2018	13806.507	13976.152	60	Marcellus
4	10/15/2018	13605.333	13774.978	60	Marcellus
5	10/16/2018	13404.159	13573.804	60	Marcellus
6	10/16/2018	13202.985	13372.63	60	Marcellus
7	10/17/2018	13001.811	13171.456	60	Marcellus
8	10/17/2018	12800.637	12970.282	60	Marcellus
9	10/18/2018	12599.463	12769.108	60	Marcellus
10	10/18/2018	12398.289	12567.934	60	Marcellus
11	10/19/2018	12197.115	12366.76	60	Marcellus
12	10/19/2018	11995.941	12165.586	60	Marcellus
13	10/20/2018	11794.767	11964.412	60	Marcellus
14	10/20/2018	11593.593	11763.238	60	Marcellus
15	10/20/2018	11392.419	11562.064	60	Marcellus
16	10/21/2018	11191.245	11360.89	60	Marcellus
17	10/21/2018	10990.071	11159.716	60	Marcellus
18	10/22/2018	10788.897	10958.542	60	Marcellus
19	10/22/2018	10587.723	10757.368	60	Marcellus
20	10/23/2018	10386.549	10556.194	60	Marcellus
21	10/23/2018	10185.375	10355.02	60	Marcellus
22	10/24/2018	9984.201	10153.846	60	Marcellus
23	10/24/2018	9783.027	9952.672	60	Marcellus
24	10/24/2018	9581.853	9751.498	60	Marcellus
25	10/25/2018	9380.679	9550.324	60	Marcellus
26	10/25/2018	9179.505	9349.15	60	Marcellus
27	10/26/2018	8978.331	9147.976	60	Marcellus
28	10/26/2018	8777.157	8946.802	60	Marcellus
29	10/27/2018	8575.983	8745.628	60	Marcellus
30	10/27/2018	8374.809	8544.454	60	Marcellus
31	10/27/2018	8173.635	8343.28	60	Marcellus
32	10/27/2018	7972.461	8142.106	60	Marcellus
33	10/28/2018	7771.287	7940.932	60	Marcellus
34	10/28/2018	7570.113	7739.758	60	Marcellus
35	10/28/2018	7368.939	7538.584	60	Marcellus
36	10/29/2018	7167.765	7337.41	60	Marcellus
37	10/29/2018	6966.591	7136.236	60	Marcellus

API 47-095-02456 Farm Name Steven McPeek et al Well Number Tauscher 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	10/13/2018	78.93	7357.5	5737	3771	351350	9357	N/A
2	10/14/2018	77.65938	7268.5	6163	4097	408300	9584.004	N/A
3	10/14/2018	77.79182	7265.182	5724	4441	407700	8109	N/A
4	10/15/2018	75.50182	7077.545	5942	3471	408100	8096	N/A
5	10/16/2018	77.57818	7230.091	6099	4093	408100	7891	N/A
6	10/16/2018	77.75364	7232.364	5963	3672	409350	8044.997	N/A
7	10/17/2018	78.35455	7051	6427	3860	411800	7947	N/A
8	10/17/2018	76.80564	7088.455	6336	3941	408000	8100.005	N/A
9	10/18/2018	76.2	7244	6386	3957	406950	7950	N/A
10	10/18/2018	76.91176	7444.529	6578	4096	407900	9658.005	N/A
11	10/19/2018	72.99091	7015	6367	3964	407950	8148.005	N/A
12	10/19/2018	75.92818	6825.909	5731	4136	408300	8040	N/A
13	10/20/2018	77.99455	6841.455	5161	3953	408650	7994	N/A
14	10/20/2018	77.89091	7026.545	5984	4000	408050	7891.005	N/A
15	10/20/2018	77.17727	6730	6123	3871	411250	7845	N/A
16	10/21/2018	78.30727	6821.909	6350	4105	408450	7908	N/A
17	10/21/2018	73.66818	7017.364	6646	4535	407950	8066.005	N/A
18	10/22/2018	72.925	7075.063	6618	5014	393200	9708.005	N/A
19	10/22/2018	77.47534	7162.885	6379	4382	408300	7817.24	N/A
20	10/23/2018	73.53636	6827.727	6540	4037	406550	8068.005	N/A
21	10/23/2018	74.82682	6749.247	5442	4216	407250	7905.31	N/A
22	10/24/2018	75.99358	6846.929	5641	4240	406600	7826.16	N/A
23	10/24/2018	73.19655	6753.757	6261	3764	408550	8166.005	N/A
24	10/24/2018	75.6213	6861.752	5449	4499	408600	7945.36	N/A
25	10/25/2018	75.41818	6938.364	6194	3874	408000	7903.005	N/A
26	10/25/2018	76.94436	6758.068	6447	4043	409500	7861.31	N/A
27	10/26/2018	77.80111	7073.203	6501	4930	364250	10267.47	N/A
28	10/26/2018	74.45988	6710.559	5751	3982	407600	7822.99	N/A
29	10/27/2018	68.9	7424	6702	4558	373550	10014	N/A
30	10/27/2018	76.08234	7039.149	6003	4269	395000	7931.8	N/A
31	10/27/2018	72.47199	6784.826	5475	3926	407250	7885.81	N/A
32	10/27/2018	77.27545	6838.723	6251	4302	407650	7886.06	N/A
33	10/28/2018	76.64545	6764.636	5508	4593	407350	8044.005	N/A
34	10/28/2018	75.36	6692.3	6457	5002	405650	8022.005	N/A
35	10/28/2018	79.34567	6755.728	6621	4617	407600	7786.73	N/A
36	10/29/2018	75.65625	6831.5	6898	3763	407500	9087.005	N/A
37	10/29/2018	74.20909	6361.364	6486	4115	407550	7944.005	N/A
	AVG=	76.0	6,967	6,144	4,165	14,935,650	306,521	TOTAL

API 47-095-02456 Farm Name Steven McPeek et al Well Number Tauscher 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	1,840	1,785	1,843
Big Lime	1,855	2,012	1,858	2,015
Big Injun	2,012	2,475	2,015	2,478
Gantz Sand	2,475	2,619	2,478	2,623
Fifty Foot Sandstone	2,619	2,726	2,623	2,730
Gordon	2,726	3,060	2,730	3,066
Fifth Sandstone	3,060	3,117	3,066	3,123
Bayard	3,117	3,498	3,123	3,511
Warren	3,498	3,884	3,511	3,919
Speechley	3,884	4,579	3,919	4,672
Balltown	4,183	4,951	4,244	5,071
Bradford	4,579	4,951	4,672	5,071
Benson	4,951	5,216	5,071	5,355
Alexander	5,216	5,752	5,355	5,928
Rhinstreet	5,728	6,087	5,904	6,327
Sycamore	6,087	6,206	6,327	6,507
Middlesex	6,206	6,298	6,507	6,700
Burkett	6,298	6,325	6,700	6,793
Tully	6,325	6,350	6,793	6,923
Marcellus	6,350	NA	6,923	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:	10/13/2018
Job End Date:	10/29/2018
State:	West Virginia
County:	Tyler
API Number:	47-095-02456-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Tauscher Unit 3H
Latitude:	39.41771400
Longitude:	-80.92267200
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,389
Total Base Water Volume (gal):	13,192,500
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	87.74726	
Sand (Proppant)	CWS	Propping Agent					
				Listed Below			

DWP-111	CWS	Gel Slurry								
					Listed Below					
DAP-103	CWS	Iron Control								
					Listed Below					
SaniFrac 8844	CWS	Biocide								
					Listed Below					
DAP-902	CWS	Scale Inhibitor								
					Listed Below					
Calbreak 5501	CWS	Breaker								
					Listed Below					
Hydrochloric Acid	CWS	Clean Perforations								
					Listed Below					
CI-9100G	CWS	Corrosion Inhibitor								
					Listed Below					
DWP-641	CWS	Friction Reducer								
					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	11.90650
					Calcite	471-34-1	1.00000	0.07770
					Hydrochloric acid	7647-01-0	37.00000	0.05818
					Illite	12173-60-3	1.00000	0.04134
					Distillates (petroleum), hydrotreated middle	64742-46-7	60.00000	0.02625
					Guar gum	9000-30-0	60.00000	0.02625
					Polymer	26100-47-0	45.00000	0.02597
					Distillates (petroleum), hydrotreated light	64742-47-8	30.00000	0.01732
					Biotite	1302-27-8	0.10000	0.01190
					Apatite	64476-38-6	0.10000	0.01190
					Goethite	1310-14-1	0.10000	0.01190
					Ammonium chloride	12125-02-9	11.00000	0.00635
					2-Propenoic acid, homopolymer, sodium salt	9003-04-7	40.00000	0.00603
					Polyethylene glycol mixture	25322-68-3	54.50000	0.00593
					Ilmenite	98072-94-7	0.10000	0.00413
					Sorbitan monooleate	1338-43-8	4.00000	0.00231
					Quaternary ammonium compounds, bis (hydrogenated tallow alkyl)dimethyl, salts with bentonite	68953-58-2	5.00000	0.00219
					2,2-Dibromo-3-Nitriopropionamide	10222-01-2	20.00000	0.00218
					Polyethylene glycol monooleate	9004-96-0	3.00000	0.00173
					1,2-Propanediol	57-55-6	10.00000	0.00151
					Sorbitol tetraoleate	61723-83-9	2.00000	0.00115
					Ammonium Persulfate	64742-47-8	100.00000	0.00088

					37251-67-5	1.50000	0.00066	
				Oxirane, 2-methyl-, polymer with oxirane, monodecyl ether				
				Amines, tallow alkyl, ethoxylated	61791-26-2	1.00000	0.00058	
				Citric acid	77-92-9	60.00000	0.00053	
				Sodium bromide	7647-15-6	4.00000	0.00044	
				Dibromoacetonitrile	3252-43-5	3.00000	0.00033	
				Alkyloxypolyethyleneoxy ethanol	84133-50-6	0.50000	0.00029	
				Vinylidene chloride-methyl acrylate copolymer	69418-26-4	20.00000	0.00018	
				Acrylamide	79-06-1	0.10000	0.00006	
				Ethylene glycol	107-21-1	40.00000	0.00003	
				Diethylene glycol (mono) methyl ether	34590-94-8	20.00000	0.00002	
				Tar bases, quinolone derivs	68513-87-1	1.00000	0.00001	
				Ethoxylated alcohols	Proprietary	10.00000	0.00001	Proprietary CAS
				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	
				Formic Acid	64-18-6	10.00000	0.00001	
				Diethylene glycol	111-46-6	1.00000	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: 47-095-02456 County: Tyler
District: Centerville Well No: Tauscher Unit 3H
Farm Name: Steven McPeek et al
Discharge Date/s From:(MMDDYY) 01/09/19 To: (MMDDYY) 02/08/19
Discharge Times. From: 0:00 To: 24:00
Total Volume to be Disposed from this facility (gallons): 737,217

Disposal Option(s) Utilized (write volumes in gallons):

- (1) Land Application: _____ (Include a topographical map of the Area.)
- (2) UIC: 430,735 Permit No. 3400923821, 3410523619, 3416729731, 3416729543, 3416729464,
- (3) Offsite Disposal: 280 Site Location: 3410523268 Mud Masters
- (4) Reuse: 306,202 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.

WR-34
Page 2 of 3

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

WR-34
Page 3 of 3

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/Bl
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: _____