

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 57<sup>th</sup> 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 circular stamp.

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 - 02406 County Tyler District Centerville  
 Quad Middlebourne 7.5' Pad Name Stonefly Pad Field/Pool Name -----  
 Farm name Steven McPeek et al Well Number Copper John 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 4363152m Easting 506669m  
 Landing Point of Curve Northing 4362962.19m Easting 506506.64m  
 Bottom Hole Northing 4360657m Easting 507333m

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 1/18/2018  
 Date completion activities began 6/11/2018 Date completion activities ceased 12/13/2018  
 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 - 02406 Farm name Steven McPeek et al Well number Copper John 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"	576'	New	54#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2601'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	14907'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6567'		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 <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Class A	204 sx	15.6	1.18	244	0'	8 Hrs.
Surface	Class A	480 sx	15.6	1.19	402	0'	8 Hrs.
Coal							
Intermediate 1	Class A	894 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) 14907' MD, 6371' TVD (BHL), 6393' (Deepest Point Drilled) Loggers TD (ft) 14907' MD

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

Plug back procedure N/A

Kick off depth (ft) 5939'

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 - 02406 Farm name Steven McPeek et al Well number Copper John Unit 3H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>6334' (TOP)</u> TVD	<u>6623' (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 6896 mcfpd Oil 124 bpd NGL --- bpd Water 8 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 <sub>2</sub> 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.

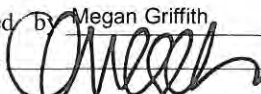
Drilling Contractor Frontier Drilling LLC  
Address 562 Spring Run Road City Pennsboro State WV Zip 26415

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 APRIL 4, 2019



API 47-095-02406 Farm Name Steven McPeek et al Well Number Copper John Unit 3H					
EXHIBIT 1					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	11/1/2018	14634.125	14805.3	60	Marcellus
2	11/2/2018	14434.955	14602.93	60	Marcellus
3	11/2/2018	14235.785	14403.76	60	Marcellus
4	11/3/2018	14036.615	14204.59	60	Marcellus
5	11/3/2018	13837.445	14005.42	60	Marcellus
6	11/8/2018	13638.275	13806.25	60	Marcellus
7	11/8/2018	13439.105	13607.08	60	Marcellus
8	11/9/2018	13239.935	13407.91	60	Marcellus
9	11/9/2018	13040.765	13208.74	60	Marcellus
10	11/10/2018	12841.595	13009.57	60	Marcellus
11	11/10/2018	12642.425	12810.4	60	Marcellus
12	11/10/2018	12443.255	12611.23	60	Marcellus
13	11/10/2018	12244.085	12412.06	60	Marcellus
14	11/11/2018	12044.915	12212.89	60	Marcellus
15	11/11/2018	11845.745	12013.72	60	Marcellus
16	11/11/2018	11646.575	11814.55	60	Marcellus
17	11/11/2018	11447.405	11615.38	60	Marcellus
18	11/12/2018	11248.235	11416.21	60	Marcellus
19	11/12/2018	11049.065	11217.04	60	Marcellus
20	11/12/2018	10849.895	11017.87	60	Marcellus
21	11/12/2018	10650.725	10818.7	60	Marcellus
22	11/13/2018	10451.555	10619.53	60	Marcellus
23	11/13/2018	10252.385	10420.36	60	Marcellus
24	11/13/2018	10053.215	10221.19	60	Marcellus
25	11/13/2018	9854.045	10022.02	60	Marcellus
26	11/14/2018	9654.875	9822.85	60	Marcellus
27	11/14/2018	9455.705	9623.68	60	Marcellus
28	11/14/2018	9256.535	9424.51	60	Marcellus
29	11/14/2018	9057.365	9225.34	60	Marcellus
30	11/15/2018	8858.195	9026.17	60	Marcellus
31	11/15/2018	8659.025	8827	60	Marcellus
32	11/16/2018	8459.855	8627.83	60	Marcellus
33	11/16/2018	8260.685	8428.66	60	Marcellus
34	11/17/2018	8061.515	8229.49	60	Marcellus
35	11/17/2018	7862.345	8030.32	60	Marcellus
36	11/17/2018	7663.175	7831.15	60	Marcellus
37	11/18/2018	7464.005	7631.98	60	Marcellus
38	11/18/2018	7264.835	7432.81	60	Marcellus
39	11/18/2018	7065.665	7233.64	60	Marcellus
40	11/18/2018	6866.495	7034.47	60	Marcellus
41	11/19/2018	6667.325	6835.3	60	Marcellus



API 47-095-02406 Farm Name Steven McPeek et al Well Number Copper John 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	6/9/2018	40.6	8037	5938	5938	4368	8801	N/A
2	6/23/2018	65.4	7283	5432	5837	357400	10211	N/A
3	6/24/2018	75.7	7506	5273	4746	363930	8848	N/A
4	6/26/2018	75.6	6905	5212	3724	355710	8119	N/A
5	6/27/2018	75.7	7004	5600	3805	362230	8370	N/A
6	6/27/2018	60.1	7496	4800	4077	359090	15860	N/A
7	6/28/2018	71.4	6819	5182	3738	364420	8423	N/A
8	6/28/2018	77.5	6966	5210	5048	358940	8466	N/A
9	6/28/2018	75.4	6919	4805	4561	358990	8295	N/A
10	6/29/2018	77	7146	5462	4136	361340	8010	N/A
11	6/30/2018	79.2	7232	5329	3894	363710	8071	N/A
12	6/30/2018	77.9	6815	5766	4138	362610	8343	N/A
13	6/30/2018	77.1	7005	5431	4199	363880	8285	N/A
14	6/30/2018	76.6	7139	5581	3966	362770	8015	N/A
15	7/1/2018	77.9	7084	5137	4874	360190	9131	N/A
16	7/1/2018	76.8	6815	5553	4043	360360	8109	N/A
17	7/1/2018	79.1	6967	5319	4063	357380	7921	N/A
18	7/2/2018	77.2	6997	6019	4545	360650	8248	N/A
19	7/2/2018	78.5	6793	5042	4237	365040	8304	N/A
20	7/2/2018	69	6939	4656	3982	359630	8465	N/A
21	7/3/2018	76	6797	5340	4003	365096	8094	N/A
22	7/3/2018	78	6819	5337	4115	365200	8366	N/A
23	7/4/2018	78	6807	5688	3984	356530	7910	N/A
24	7/4/2018	77.4	6880	5474	3997	368750	8175	N/A
25	7/4/2018	78.4	6846	5225	3974	358750	8259	N/A
26	7/4/2018	72.2	7439	5749	3850	363620	10334	N/A
27	7/5/2018	70.5	7409	5408	3744	356370	8041	N/A
28	7/5/2018	76.5	6958	5352	3701	353540	8046	N/A
29	7/5/2018	71.5	7250	6169	3948	363600	9058	N/A
30	7/6/2018	79.2	6977	6484	3879	355350	8833	N/A
31	7/6/2018	77	7077	6203	4205	361210	8044	N/A
32	7/6/2018	77.9	7245	5521	4267	358720	9256	N/A
33	7/6/2018	74.7	7175	5163	4641	359220	8876	N/A
34	7/6/2018	78.4	6859	5770	4723	364340	8053	N/A
35	7/7/2018	77.8	6730	5759	5120	361720	8124	N/A
36	7/7/2018	77	6460	5516	5192	360870	7959	N/A
37	7/7/2018	78.4	6227	5311	4943	367090	8056	N/A
38	7/7/2018	79.5	6440	5561	3969	365340	8006	N/A
	AVG=	74.8	7,007	5,468	4,311	13,367,954	327,785	TOTAL

API 47-095-02406 Farm Name Steven McPeek et al Well Number Copper John 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	-15	205	-15	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	1,857	1,785	1,858
Big Lime	1,872	2,021	1,873	2,021
Big Injun	2,021	2,478	2,021	2,478
Gantz Sand	2,478	2,613	2,478	2,614
Fifty Foot Sandstone	2,613	2,719	2,614	2,719
Gordon	2,719	3,052	2,719	3,055
Fifth Sandstone	3,052	3,110	3,055	3,114
Bayard	3,110	3,489	3,114	3,500
Warren	3,489	3,876	3,500	3,894
Speechley	3,876	4,572	3,894	4,603
Balltown	4,177	4,967	4,200	5,004
Bradford	4,572	4,967	4,603	5,004
Benson	4,967	5,207	5,004	5,249
Alexander	5,207	5,727	5,249	5,780
Rhinestreet	5,703	6,068	5,756	6,169
Sycamore	6,068	6,195	6,169	6,344
Middlesex	6,195	6,286	6,344	6,507
Burkett	6,286	6,313	6,507	6,567
Tully	6,313	6,334	6,567	6,623
Marcellus	6,334	NA	6,623	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:	11/1/2018
Job End Date:	11/19/2018
State:	West Virginia
County:	Tyler
API Number:	47-095-02406-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Copper John Unit 3H
Latitude:	39.41779200
Longitude:	-80.92270300
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,370
Total Base Water Volume (gal):	14,587,223
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	87.73433	
DAP-902	CWS	Scale Inhibitor					
				Listed Below			

Sand (Proppant)	CWS	Propping Agent							
						Listed Below			
DAP-103	CWS	Iron Control							
						Listed Below			
CI-9100G	CWS	Corrosion Inhibitor							
						Listed Below			
Calbreak 5501	CWS	Breaker							
						Listed Below			
DWP-111	CWS	Gel Slurry							
						Listed Below			
SaniFrac 8844	CWS	Biocide							
						Listed Below			
DWP-641	CWS	Friction Reducer							
						Listed Below			
Hydrochloric Acid	CWS	Clean Perforations							
						Listed Below			
Other Chemical (s)	Listed Above	See Trade Name (s) List							



Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients.						
			Listed Below			
			Crystalline silica (Quartz)	14808-60-7	100.00000	11.89726
			Calcite	471-34-1	1.00000	0.07707
			Hydrochloric acid	7647-01-0	37.00000	0.05740
			Illite	12173-60-3	1.00000	0.04102
			Distillates (petroleum), hydrotreated middle	64742-46-7	60.00000	0.04050
			Guar gum	9000-30-0	60.00000	0.04050
			Polymer	26100-47-0	45.00000	0.02312
			Distillates (petroleum), hydrotreated light	64742-47-8	30.00000	0.01541
			Biotite	1302-27-8	0.10000	0.01181
			Apatite	64476-38-6	0.10000	0.01181
			Goethite	1310-14-1	0.10000	0.01181
			Polyethylene glycol mixture	25322-68-3	54.50000	0.00592
			2-Propenoic acid, homopolymer, sodium salt	9003-04-7	40.00000	0.00574
			Ammonium chloride	12125-02-9	11.00000	0.00565
			Ilmenite	98072-94-7	0.10000	0.00410
			Quaternary ammonium compounds, bis (hydrogenated tallow alkyl)dimethyl, salts with bentonite	68953-58-2	5.00000	0.00337
			2,2-Dibromo-3-Nitropropionamide	10222-01-2	20.00000	0.00217
			Sorbitan monooleate	1338-43-8	4.00000	0.00205
			Polyethylene glycol monooleate	9004-96-0	3.00000	0.00154
			Ammonium Persulfate	64742-47-8	100.00000	0.00147
			1,2-Propanediol	57-55-6	10.00000	0.00144
			Sorbitol tetraoleate	61723-83-9	2.00000	0.00103

					37251-67-5	1.50000	0.00101	
				Oxirane, 2-methyl-, polymer with oxirane, monodecyl ether				
				Citric acid	77-92-9	60.00000	0.00052	
				Amines, tallow alkyl, ethoxylated	61791-26-2	1.00000	0.00051	
				Sodium bromide	7647-15-6	4.00000	0.00043	
				Dibromoacetonitrile	3252-43-5	3.00000	0.00033	
				Vinylidene chloride-methyl acrylate copolymer	69418-26-4	20.00000	0.00029	
				Alkylloxypolyethyleneoxy ethanol	84133-50-6	0.50000	0.00026	
				Acrylamide	79-06-1	0.10000	0.00005	
				Ethylene glycol	107-21-1	40.00000	0.00003	
				Diethylene glycol (mono) methyl ether	34590-94-8	20.00000	0.00002	
				Formic Acid	64-18-6	10.00000	0.00001	
				Cinnamaldehyde	104-55-2	10.00000	0.00001	
				Diethylene glycol	111-46-6	1.00000	0.00001	
				Tar bases, quinolone derivs	68513-87-1	1.00000	0.00001	
				Ethoxylated alcohols	Proprietary	10.00000	0.00001	Proprietary CAS
				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)





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



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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: \_\_\_\_\_