

04/05/2019



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

April 3, 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:

- Penny Unit 1H (API # 47-085-10298)—Mulvay Pad
- Penny Unit 2H (API # 47-085-10299)—Mulvay Pad
- Penny Unit 3H (API # 47-085-10300)—Mulvay Pad
- Stronsnider Unit 1H (API # 47-085-10201)—Mulvay Pad
- Stronsnider Unit 2H (API # 47-085-10202)—Mulvay Pad
- Stronsnider Unit 3H (API # 47-085-10203)—Mulvay Pad
- Trust Unit 1H (API # 47-085-10301)—Mulvay Pad
- Trust Unit 2H (API # 47-085-10302)—Mulvay Pad
- Niley Unit 1H (API # 47-085-10250)—Mulvay Pad
- Niley Unit 2H (API # 47-085-10251)—Mulvay Pad
- Niley Unit 3H (API # 47-085-10252)—Mulvay 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", is 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 - 085 - 10302 County Ritchie District Clay
 Quad Pennsboro 7.5' Pad Name Mulvay Pad Field/Pool Name ****
 Farm name Edwin D. Mulvay et al Well Number Trust Unit 2H
 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 4352578m Easting 508710m
 Landing Point of Curve Northing 4352449.50m Easting 508794.00m
 Bottom Hole Northing 4349551m Easting 509774m

Elevation (ft) 1029' 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 9/29/2015 Date drilling commenced 12/23/2016 Date drilling ceased 6/30/2017
 Date completion activities began 1/17/2018 Date completion activities ceased 7/26/2018
 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 24', 76', 124', 422' Open mine(s) (Y/N) depths No
 Salt water depth(s) ft 1522', 1949' Void(s) encountered (Y/N) depths No
 Coal depth(s) ft 653', 664' 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 47-085 - 10302 Farm name Edwin D. Mulvay et al Well number Trust Unit 2H

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"	550'	New	48#, H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2607'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	16804'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6552'		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	102 sx	15.6	1.18	120	0'	8 Hrs.
Surface	Class A	605 sx	15.6	1.18	826	0'	8 Hrs.
Coal							
Intermediate 1	Class A	907 sx	15.6	1.18	1181	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	798 sx (Lead) 1333 sx (Tail)	13.5 (Lead), 15.2 (Tail)	1.44 (Lead), 1.87 (Tail)	3774	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 16793' MD, 6431' TVD (BHL), 6431' (Deepest Point Drilled) Loggers TD (ft) 16793' MD

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

Plug back procedure N/A

Kick off depth (ft) 5800'

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- 085 - 10302 Farm name Edwin D. Mulvay et al Well number Trust Unit 2H

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- 085 - 10302 Farm name Edwin D. Mulvay et al Well number Trust Unit 2H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
Marcellus	6359' (TOP)	TVD	6543' (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 7369 mcfpd Oil 21 bpd NGL --- bpd Water 1 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
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***PLEASE SEE ATTACHED EXHIBIT 3**

Please insert additional pages as applicable.

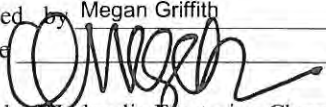
Drilling Contractor Frontier Drilling LLC
Address 562 Spring Run Road City Pennsboro State WV Zip 26415

Logging Company Allied Horizontal Wireline Services
Address 381 Colonial Manor Road City North Huntington State PA Zip 15642

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 4/3/2019

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

API 47-085-10302 Farm Name <u>Edwin D. Mulvay et al</u> Well Number <u>Trust Unit 2H</u>					
EXHIBIT 1					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	5/4/2018	16538	16703	60	Marcellus
2	5/5/2018	16343	16427	60	Marcellus
3	5/5/2018	16148	16231	60	Marcellus
4	5/5/2018	15953	16036	60	Marcellus
5	5/6/2018	15758	15841	60	Marcellus
6	5/6/2018	15563	15646	60	Marcellus
7	5/7/2018	15368	15451	60	Marcellus
8	5/7/2018	15173	15256	60	Marcellus
9	5/7/2018	14977	15061	60	Marcellus
10	5/8/2018	14782	14866	60	Marcellus
11	5/8/2018	14587	14670	60	Marcellus
12	5/12/2018	14392	14475	60	Marcellus
13	5/13/2018	14197	14280	60	Marcellus
14	5/13/2018	14002	14085	60	Marcellus
15	5/13/2018	13807	13890	60	Marcellus
16	5/13/2018	13612	13695	60	Marcellus
17	5/14/2018	13416	13500	60	Marcellus
18	5/14/2018	13221	13305	60	Marcellus
19	5/14/2018	13026	13109	60	Marcellus
20	5/15/2018	12831	12914	60	Marcellus
21	5/15/2018	12636	12719	60	Marcellus
22	5/15/2018	12441	12524	60	Marcellus
23	5/16/2018	12246	12329	60	Marcellus
24	5/16/2018	12051	12134	60	Marcellus
25	5/16/2018	11855	11939	60	Marcellus
26	5/17/2018	11660	11744	60	Marcellus
27	5/17/2018	11465	11548	60	Marcellus
28	5/17/2018	11270	11353	60	Marcellus
29	5/18/2018	11075	11158	60	Marcellus
30	5/18/2018	10880	10963	60	Marcellus
31	5/19/2018	10685	10768	60	Marcellus
32	5/19/2018	10490	10573	60	Marcellus
33	5/19/2018	10294	10378	60	Marcellus
34	5/20/2018	10099	10183	60	Marcellus
35	5/20/2018	9904	9987	60	Marcellus
36	5/20/2018	9709	9792	60	Marcellus
37	5/21/2018	9514	9597	60	Marcellus
38	5/21/2018	9319	9402	60	Marcellus
39	5/21/2018	9124	9207	60	Marcellus
40	5/22/2018	8929	9012	60	Marcellus
41	5/22/2018	8733	8817	60	Marcellus
42	5/22/2018	8538	8622	60	Marcellus
43	5/23/2018	8343	8426	60	Marcellus
44	5/23/2018	8148	8231	60	Marcellus
45	5/23/2018	7953	8036	60	Marcellus
46	5/24/2018	7758	7841	60	Marcellus
47	5/24/2018	7563	7646	60	Marcellus
48	5/25/2018	7368	7451	60	Marcellus
49	5/25/2018	7172	7256	60	Marcellus
50	5/25/2018	6977	7061	60	Marcellus
51	5/25/2018	6782	6865	60	Marcellus
52	5/26/2018	6587	6670	60	Marcellus

API 47-085-10302 Farm Name Edwin D. Mulvay et al Well Number Trust Unit 2H

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 (bbbls)	Amount of Nitrogen/ other (units)
1	5/4/2018	71.915	7175.159	5231	4458	402900	8434	N/A
2	5/5/2018	75.1096	7229.294	5410	4375	406190	8444	N/A
3	5/5/2018	76.9877	7512.017	5713	4060	405600	8316	N/A
4	5/5/2018	77.3	7527.8	5558	4538	399350	8356	N/A
5	5/6/2018	77.2709	7453.976	5484	4176	403420	8330	N/A
6	5/6/2018	77.8	7435.4	5452	3914	401380	8359	N/A
7	5/7/2018	72.2	7348.2	6276	3996	407980	8551	N/A
8	5/7/2018	76.5923	7258.034	5635	4110	406520	8228	N/A
9	5/7/2018	76.3539	7462.387	6449	4124	406800	8295	N/A
10	5/8/2018	76.4018	7665.17	5724	3898	402220	8208	N/A
11	5/8/2018	66.6061	7067.864	5759	4109	404600	8839	N/A
12	5/12/2018	78.8865	7356.443	4922	4095	404600	8341	N/A
13	5/13/2018	78.3155	7318.518	5473	3922	405300	8281	N/A
14	5/13/2018	75.7717	7317.305	5807	3802	407050	8132	N/A
15	5/13/2018	78.2863	7297.999	5378	3807	406860	8944	N/A
16	5/13/2018	76.6299	7729.965	5220	3997	404900	8642	N/A
17	5/14/2018	76.6388	7271.435	5654	4074	404810	8216	N/A
18	5/14/2018	79.5679	7476.714	5576	3899	411520	8180	N/A
19	5/14/2018	79.1735	7278.593	5449	3758	404800	8152	N/A
20	5/15/2018	78.4547	7264.314	5224	3965	404800	8242	N/A
21	5/15/2018	76.7	7243.2	5621	3877	405260	8065	N/A
22	5/15/2018	77.3163	7017.859	5567	3861	404200	8827	N/A
23	5/16/2018	78.6049	7404.221	4819	3740	414500	8521	N/A
24	5/16/2018	76.7813	7030.601	5892	3846	407730	8197	N/A
25	5/16/2018	77.8584	7338.149	5948	3680	410780	8098	N/A
26	5/17/2018	79.1173	6909.05	4567	3856	412500	8370	N/A
27	5/17/2018	78.2	7308.3	6008	3713	409360	8092	N/A
28	5/17/2018	77.9021	7022.747	5760	3793	406400	8250	N/A
29	5/18/2018	76.3514	7179.691	5622	3866	407900	9696	N/A
30	5/18/2018	72.4	6935.5	5036	3818	407470	8098	N/A
31	5/19/2018	72.8	7544.4	5343	3891	407910	8153	N/A
32	5/19/2018	71.3	7709.8	4811	3897	380440	10296	N/A
33	5/19/2018	76.6226	7545.82	5541	3887	407100	8339	N/A
34	5/20/2018	71.8	7425.2	5504	3848	407899	8038	N/A
35	5/20/2018	78.2	7287.1	6101	4127	409210	8090	N/A
36	5/20/2018	72.5	7140.5	6017	4052	340900	9489	N/A
37	5/21/2018	79.9	7105.6	5708	3611	405850	8018	N/A
38	5/21/2018	78.9931	6569.585	5526	3728	405580	8203	N/A
39	5/21/2018	78.5033	6801.93	5610	3706	402430	8074	N/A
40	5/22/2018	78.7	6695.8	6465	3773	407450	7999	N/A
41	5/22/2018	79.6	6727.9	5556	3811	406790	8054	N/A
42	5/22/2018	74.6941	6760.291	6056	3410	403750	9545	N/A
43	5/23/2018	75.1	6934.7	5301	3408	405050	7981	N/A
44	5/23/2018	78.3	7079.4	5651	0	407080	7939	N/A
45	5/23/2018	77.5334	7220.731	4801	3439	407250	7933	N/A
46	5/24/2018	76.8	7138.2	6711	3522	405430	7907	N/A
47	5/24/2018	70.8458	6944.981	5882	3602	382840	7400	N/A
48	5/25/2018	75.5501	6729.315	5738	3427	432210	8276	N/A
49	5/25/2018	77.4	7030.3	6180	3569	409470	7931	N/A
50	5/25/2018	72.4651	6058.026	6055	3509	410150	7920	N/A
51	5/25/2018	72.4651	6058.026	6055	3509	406500	7808	N/A
52	5/26/2018	73.9035	6459.476	6565	3673	408130	7910	N/A
	AVG=	76.5	7,229	5,586	3,810	18,597,819	385,762	TOTAL

API 47-085-10302 Farm Name <u>Edwin D. Mulvay et al</u> Well Number <u>Trust Unit 2H</u>				
EXHIBIT 3				
LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Silty Sandstone	0	105	0	105
Sandy siltstone	105	145	105	145
Shale	145	185	145	185
Sandstone	185	305	185	305
Sandy Shale	305	545	305	545
Silty Shale	545	745	545	745
Sandy siltstone	745	885	745	885
silty shale	885	1,005	885	1,005
Sandy siltstone	1,005	1,115	1,005	1,115
Shaly Siltstone	1,115	1,345	1,115	1,345
Sandstone	1,345	1,525	1,345	1,525
Sandy siltstone	1,525	1,645	1,525	1,645
Silty Sandstone	1,645	1,870	1,645	1,876
Big Lime	1,885	2,061	1,891	2,070
Big Injun	2,061	2,431	2,070	2,445
Gantz Sand	2,431	2,680	2,445	2,696
Fifty Foot Sandstone	2,680	2,851	2,696	2,867
Gordon	2,851	3,012	2,867	3,028
Fifth Sandstone	3,012	3,290	3,028	3,306
Bayard	3,290	3,387	3,306	3,403
Warren	3,387	3,755	3,403	3,771
Speechley	3,755	4,504	3,771	4,520
Balltown	3,974	4,897	3,990	4,913
Bradford	4,504	4,897	4,520	4,913
Benson	4,897	5,121	4,913	5,137
Alexander	5,121	5,721	5,137	5,738
Rhinestreet	5,697	6,065	5,714	6,102
Sycamore	6,065	6,187	6,102	6,243
Middlesex	6,187	6,297	6,243	6,402
Burkett	6,297	6,330	6,402	6,465
Tully	6,330	6,359	6,465	6,543
Marcellus	6,359	NA	6,543	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:	5/4/2018
Job End Date:	5/26/2018
State:	West Virginia
County:	Richie
API Number:	47-085-10302-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Trust 2H
Latitude:	39.32248600
Longitude:	-80.89911700
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,431
Total Base Water Volume (gal):	18,925,940
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	Antero Resources	Carrier/Base Fluid	Water	7732-18-5	100.00000	88.06292	
Sand	J.S. Well Services, LLC	Proppant					
HCL Acid (12.6%-17.5%)	J.S. Well Services, LLC	Bulk Acid	Crystalline Silica, quartz	14808-60-7	100.00000	11.72319	
			Water	7732-18-5	87.40000	0.11985	
			Hydrogen Chloride	7647-01-0	17.50000	0.02787	
LGC-15	J.S. Well Services, LLC	Gelling Agents					
			Guar Gum	9000-30-0	50.00000	0.01340	
			Petroleum Distillates	64742-47-8	60.00000	0.01269	
			Suspending agent (solid)	14808-60-7	3.00000	0.00205	
			Surfactant	68439-51-0	3.00000	0.00080	
WFRA-405	J.S. Well Services, LLC	Friction Reducer					
			2-Propenoic acid, polymer with 2-propenamide	29003-06-9	30.00000	0.01577	
			Hydrated light distillate (petroleum)	64742-47-8	30.00000	0.01270	

Bioclear 2000	J.S. Well Services, LLC	Anti-Bacterial Agent						
			2,2-dibromo-3-nitropropionamide	10222-01-2	20.00000	0.00445		
			Deionized Water	7732-18-5	28.00000	0.00254		
SI-1200s	J.S. Well Services, LLC	Scale Inhibitor						
			Proprietary Scale Inhibitor	Proprietary	10.00000	0.00129		
AP One	J.S. Well Services, LLC	Gel Breakers						
			Ammonium Persulfate	7727-54-0	100.00000	0.00040		
AI-303	J.S. Well Services, LLC	Acid Corrosion Inhibitors						
			Ethylene glycol	107-21-1	40.00000	0.00004		
			Formic acid	64-18-6	20.00000	0.00001		
			Cinnamaldehyde	104-55-2	20.00000	0.00001		
			Butyl cellosolve	111-76-2	20.00000	0.00001		
			Polyether	60828-78-6	10.00000	0.00001		
			Acetophenone, thiourea, formaldehyde polymer	68527-49-1	5.00000	0.00000		

Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

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

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

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Rev. 10-10

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: 47-085-10302 County: Ritchie
 District: Clay Well No: Trust Unit 2H
 Farm Name: Edwin D. Mulvay et al
 Discharge Date/s From:(MMDDYY) 08/24/18 To: (MMDDYY) 09/23/18
 Discharge Times. From: 0:00 To: 24:00
 Total Volume to be Disposed from this facility (gallons): 760,649
 Disposal Option(s) Utilized (write volumes in gallons):

- (1) Land Application: _____ (Include a topographical map of the Area.)
 (2) UIC: 193,373 Permit No. 3400923821, 3416729543, 3416729464, 3416729445, 3410523619, 3416729731, 3400923761, 3405320968, 3410523268,
 (3) Offsite Disposal: 305 Site Location: Mud Masters
 (4) Reuse: 566, 970 Alternate Permit Number: _____
 (5) Centralized Facility: _____ Permit No. _____
 (6) Other method: _____ (Include an explanation)

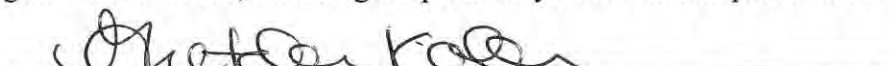
Follow Instructions below to determine your treatment category:

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: 10/30/18

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/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: _____