



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

April 30, 2020

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 off of the **Oxford 97 Pad**:

- Oxford 97 AHS
- Oxford 97 BHS
- Oxford 97 CHS
- Oxford 97 DHS
- Oxford 97 EHS
- Oxford 97 FHS
- Oxford 97 GHS
- Oxford 97 HHS

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 "M. Griffith", with a long horizontal flourish extending to the right.

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 - 017 - 06483 County Doddridge District West Union
Quad Oxford 7.5' Pad Name Oxford 97 Pad Field/Pool Name -----
Farm name Haessly Land & Timber LLC Well Number Oxford 97 CHS
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 4342652m Easting 516941m
Landing Point of Curve Northing 4342559.72m Easting 516576.12m
Bottom Hole Northing 4345025m Easting 515422m

Elevation (ft) 1333' 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 3/15/2019 Date drilling commenced 3/26/2019 Date drilling ceased 6/10/2019
Date completion activities began 10/5/2019 Date completion activities ceased 11/19/2019
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 108', 505' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1378', 1544' Void(s) encountered (Y/N) depths No
Coal depth(s) ft None Identified Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed by:

API 47-017 - 06483 Farm name Haessly Land & Timber LLC Well number Oxford 97 CHS

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"	58'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	892'	New	48#, H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2992'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	16743'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	7211'		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	214 sx	15.6	1.18	120	0'	8 Hrs.
Surface	Class A	631 sx	15.6	1.18	826	0'	8 Hrs.
Coal							
Intermediate 1	Class A	890 sx	15.6	1.18	1181	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	675sx (Lead) 2448sx (Tail)	14.5 (Lead), 15.2 (Tail)	1.40 (Lead), 1.26 (Tail)		~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 16758' MD ,6891' TVD (BHL), 6892' (Deepest Point Drilled) Loggers TD (ft) 16758' MD

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

Plug back procedure N/A

Kick off depth (ft) 6200'

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- 017 - 06483 Farm name Haessly Land & Timber LLC Well number Oxford 97 CHS

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.

API 47- 017 - 06483 Farm name Haessly Land & Timber LLC Well number Oxford 97 CHS

PRODUCING FORMATION(S)	DEPTHS		
Marcellus	6802' (TOP)	TVD	7281' (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 4040 mcfpd Oil 65 bpd NGL --- bpd Water 2 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	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 Patterson UTI Drilling Company LLC
Address 207 Carlton Drive City Eighty Four State PA Zip 15330

Logging Company KLX Energy Services
Address 3040 Post Oak Boulevard City Houston State TX Zip 77056

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 4-30-20

API 47-017-06483 Farm Name Haessly Land & Timber LLC Well Number Oxford 97 CHS

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	10/25/2019	16624	16460.425	60	Marcellus
2	10/25/2019	16425.31	16261.735	60	Marcellus
3	10/25/2019	16226.62	16063.045	60	Marcellus
4	10/25/2019	16027.93	15864.355	60	Marcellus
5	10/26/2019	15829.24	15665.665	60	Marcellus
6	10/26/2019	15630.55	15466.975	60	Marcellus
7	10/26/2019	15431.86	15268.285	60	Marcellus
8	10/27/2019	15233.17	15069.595	60	Marcellus
9	10/27/2019	15034.48	14870.905	60	Marcellus
10	10/27/2019	14835.79	14672.215	60	Marcellus
11	10/27/2019	14637.1	14473.525	60	Marcellus
12	10/28/2019	14438.41	14274.835	60	Marcellus
13	10/28/2019	14239.72	14076.145	60	Marcellus
14	10/28/2019	14041.03	13877.455	60	Marcellus
15	10/28/2019	13842.34	13678.765	60	Marcellus
16	10/29/2019	13643.65	13480.075	60	Marcellus
17	10/29/2019	13444.96	13281.385	60	Marcellus
18	10/29/2019	13246.27	13082.695	60	Marcellus
19	10/30/2019	13047.58	12884.005	60	Marcellus
20	10/30/2019	12848.89	12685.315	60	Marcellus
21	10/30/2019	12650.2	12486.625	60	Marcellus
22	10/30/2019	12451.51	12287.935	60	Marcellus
23	10/30/2019	12252.82	12089.245	60	Marcellus
24	10/31/2019	12054.13	11890.555	60	Marcellus
25	10/31/2019	11855.44	11691.865	60	Marcellus
26	10/31/2019	11656.75	11493.175	60	Marcellus
27	11/1/2019	11458.06	11294.485	60	Marcellus
28	11/1/2019	11259.37	11095.795	60	Marcellus
29	11/1/2019	11060.68	10897.105	60	Marcellus
30	11/1/2019	10861.99	10698.415	60	Marcellus
31	11/2/2019	10663.3	10499.725	60	Marcellus
32	11/2/2019	10464.61	10301.035	60	Marcellus
33	11/2/2019	10265.92	10102.345	60	Marcellus
34	11/3/2019	10067.23	9903.655	60	Marcellus
35	11/3/2019	9868.54	9704.965	60	Marcellus
36	11/3/2019	9669.85	9506.275	60	Marcellus
37	11/3/2019	9471.16	9307.585	60	Marcellus
38	11/4/2019	9272.47	9108.895	60	Marcellus
39	11/4/2019	9073.78	8910.205	60	Marcellus
40	11/4/2019	8875.09	8711.515	60	Marcellus
41	11/4/2019	8676.4	8512.825	60	Marcellus
42	11/5/2019	8477.71	8314.135	60	Marcellus
43	11/5/2019	8279.02	8115.445	60	Marcellus
44	11/5/2019	8080.33	7916.755	60	Marcellus
45	11/5/2019	7881.64	7718.065	60	Marcellus
46	11/6/2019	7682.95	7519.375	60	Marcellus
47	11/6/2019	7484.26	7320.685	60	Marcellus

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	10/25/2019	79.61594	8226.112	6311	4576	407860	7449.866	N/A
2	10/25/2019	75.75962	7918.328	6154	4090	401150	7128.08	N/A
3	10/25/2019	78.36309	7961.347	5964	3389	400510	7182.5	N/A
4	10/25/2019	83.27801	8258.285	5538	3571	400650	8545.96	N/A
5	10/26/2019	76.15715	7878.737	5834	4688	401050	10770.91	N/A
6	10/26/2019	76.89966	8035.461	5848	3501	400900	7157.503	N/A
7	10/26/2019	84.15882	8197.693	4525	3668	400450	7052.555	N/A
8	10/27/2019	77.18254	8171.099	5605	3609	400500	7036.295	N/A
9	10/27/2019	79.4298	7903.315	5166	3712	401000	7067.965	N/A
10	10/27/2019	76.1739	7957.628	5701	3928	401400	7045.745	N/A
11	10/27/2019	83.99627	7997.416	5412	3857	401100	7009.815	N/A
12	10/28/2019	81.14298	8239.298	5293	3667	401300	6971.435	N/A
13	10/28/2019	68.34179	8135.792	5600	4771	400900	12139.79	N/A
14	10/28/2019	74.09987	7857.01	5719	3707	400850	6949.085	N/A
15	10/28/2019	84.97374	8052.696	5669	4504	401300	6912.675	N/A
16	10/29/2019	77.15226	7899.835	5516	3816	401000	6935.975	N/A
17	10/29/2019	79.32842	7597.577	6030	4144	401300	6969.925	N/A
18	10/29/2019	83.07798	8193.147	5548	4904	401150	7027.355	N/A
19	10/30/2019	85.52083	8039.764	5530	3508	401200	7169.415	N/A
20	10/30/2019	80.21945	7957.751	4397	3384	401050	7052.225	N/A
21	10/30/2019	84.87758	8156.4	5490	3443	401200	6994.025	N/A
22	10/30/2019	80.38278	8034.281	5615	3595	401000	6900.085	N/A
23	10/30/2019	82.29369	7508.114	5559	3455	401050	6906.055	N/A
24	10/31/2019	80.72462	7712.764	5450	3820	403600	6860.325	N/A
25	10/31/2019	83.98704	7754.79	6084	4036	398000	6869.075	N/A
26	10/31/2019	87.58979	8361.396	5760	3897	397100	7244.085	N/A
27	11/1/2019	82.657	7733.507	5966	3664	401450	7772.705	N/A
28	11/1/2019	83.10766	8204.664	5857	3780	400700	6938.755	N/A
29	11/1/2019	80.80555	7930.039	5492	4251	400850	8207.705	N/A
30	11/1/2019	82.27658	7629.02	4762	4449	400600	6842.695	N/A
31	11/2/2019	83.67724	7601.124	6566	3502	401500	6872.46	N/A
32	11/2/2019	85.1915	7685.216	5446	3529	401400	6856.18	N/A
33	11/2/2019	80.1565	7696.365	5522	3670	401050	8603.95	N/A
34	11/3/2019	85.13585	7625.356	5707	3993	400100	6948.02	N/A
35	11/3/2019	88.75795	6967.853	5415	3951	395200	6724.45	N/A
36	11/3/2019	88.97538	7395.924	5697	4703	400850	6791.48	N/A
37	11/3/2019	81.80537	6768.13	5753	3617	401130	6619.98	N/A
38	11/4/2019	82.64084	7027.58	5798	4761	400550	6716.46	N/A
39	11/4/2019	80.93314	7007.082	5865	4780	401300	6871.68	N/A
40	11/4/2019	83.43594	7218.286	5776	3208	401250	6819.51	N/A
41	11/4/2019	83.0646	6711.933	5778	5181	401000	6739.35	N/A
42	11/5/2019	84.11849	7302.196	5876	4020	400450	6816.85	N/A
43	11/5/2019	84.81264	6962.696	5734	4331	401250	6771.13	N/A
44	11/5/2019	81.01287	6907.566	6128	4850	400950	6682.11	N/A
45	11/5/2019	81.71786	6407.829	5409	3608	395600	6620.09	N/A
46	11/6/2019	80.96699	6673.804	5472	4338	401150	6742.34	N/A
47	11/6/2019	84.64237	6400.901	5597	3347	401050	6644.55	N/A
	AVG	81.5	7,706	5,641	3,980	18,035,750	326,564	TOTAL

EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)		BOTTOM DEPTH (TVD)	
	From Surface	From Surface	From Surface	From Surface
Silty Sandstone	60	160	60	160
Sandstone	160	270	160	270
Silty sandstone tr coal	270	320	270	320
Shaly siltstone tr coal	320	530	320	530
Shaly siltstone	530	640	530	640
Silty Sandstone	640	790	640	790
Silty sandstone	790	860	790	860
Silty Sandstone	860	1,070	860	1,070
Siltstone	1,070	1,260	1,070	1,260
Siltstone tr coal	1,260	1,425	1,260	1,425
Sandstone tr coal	1,425	1,750	1,425	1,750
Shaly siltstone tr coal	1,750	1,790	1,750	1,790
Silty sandstone tr coal	1,790	1,946	1,790	N/A
Big Lime	1,946	2,642	1,946	2,642
Fifty Foot Sandstone	2,642	2,699	2,642	2,699
Gordon	2,699	2,982	2,699	2,982
Fifth Sandstone	2,982	3,064	2,982	3,064
Bayard	3,064	3,840	3,064	3,840
Speechley	3,840	4,097	3,840	4,105
Balltown	4,097	4,553	4,105	4,620
Bradford	4,553	4,995	4,620	5,117
Benson	4,995	5,278	5,117	5,436
Alexander	5,278	6,617	5,436	6,930
Sycamore	6,436	6,599	6,735	6,912
Middlesex	6,599	6,732	6,930	7,116
Burkett	6,732	6,765	7,134	7,181
Tully	6,765	6,802	7,199	7,281
Marcellus	6,802	NA	7,281	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.

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: 47-017-06483 County: Doddridge
District: West Union Well No: OXFD97 CHS
Farm Name: Haessly Land & Timber, LLC
Discharge Date/s From: (MMDDYY) 12/27/19 To: (MMDDYY) 01/26/20
Discharge Times. From: 0:00 To: 24:00
Total Volume to be Disposed from this facility (gallons): 1,304,420
Disposal Option(s) Utilized (write volumes in gallons):

- (1) Land Application: _____ (Include a topographical map of the Area.)
(2) UIC: 101,119 Permit No. 3400923821, 3400923823, 3400923824, 3416729731, 3410523652, 3410523619, 4708509721, 3416729543, 3416729464, 3416729445
(3) Offsite Disposal: _____ Site Location: _____
(4) Reuse: 1,203,301 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: 3/16/20

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.

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

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,

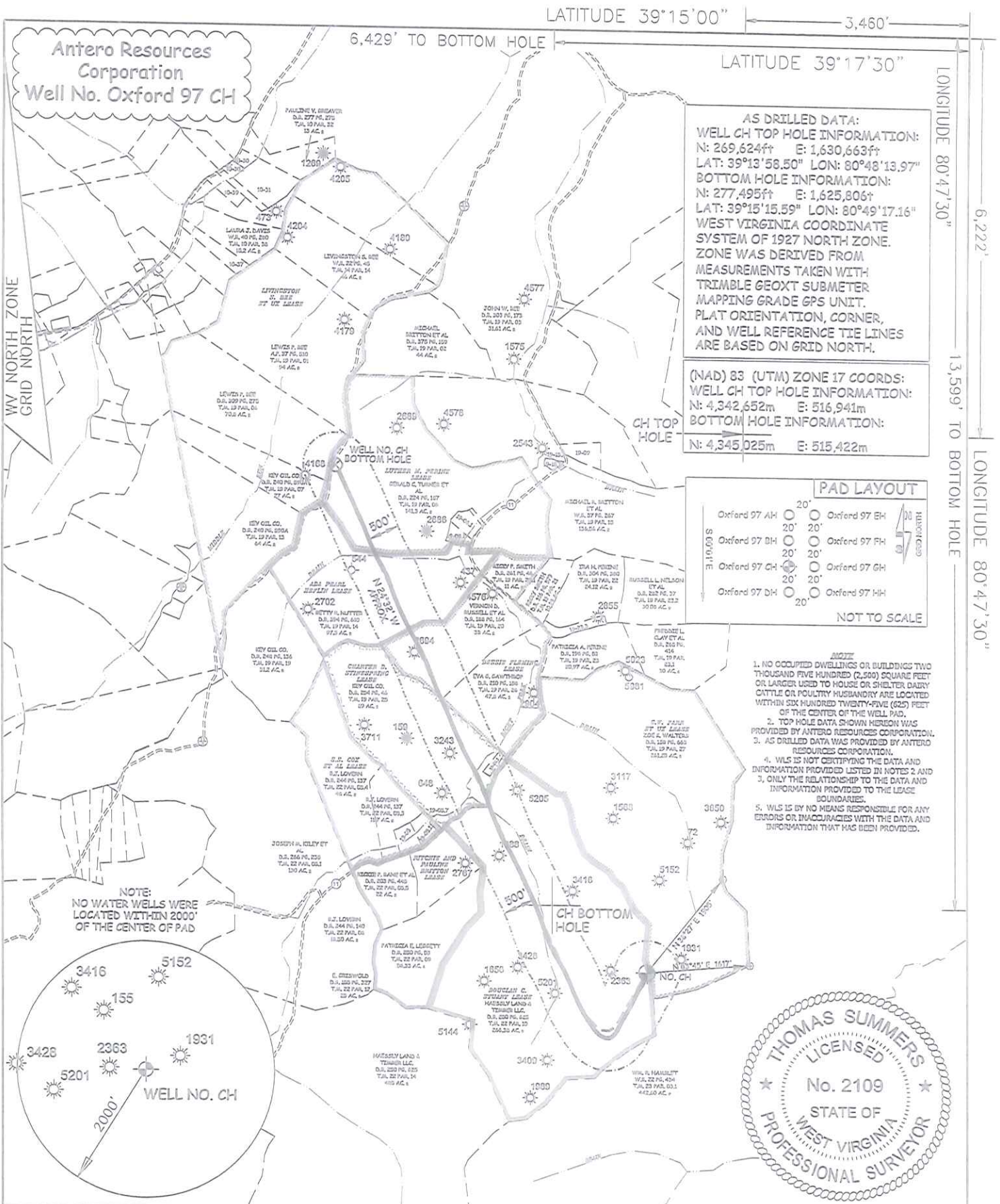
(Inspector's signature): _____ Date: _____
 ** Include a description of your aeration technique. Aeration Code: _____
 *** Al is only reported if the pH is above 9.0.

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

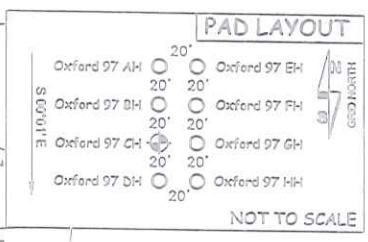
* Can be 25,000 with inspector's approval,

(Inspector's signature): _____ Date: _____



AS DRILLED DATA:
WELL CH TOP HOLE INFORMATION:
 N: 269,624ft E: 1,630,663ft
 LAT: 39°13'58.50" LON: 80°48'13.97"
BOTTOM HOLE INFORMATION:
 N: 277,495ft E: 1,625,806ft
 LAT: 39°15'15.59" LON: 80°49'17.16"
 WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE.
 ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS:
WELL CH TOP HOLE INFORMATION:
 N: 4,342,652m E: 516,941m
BOTTOM HOLE INFORMATION:
 N: 4,345,025m E: 515,422m



- NOTE**
1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.
 2. TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ANTERO RESOURCES CORPORATION.
 3. AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION.
 4. WLS IS NOT CERTIFYING THE DATA AND INFORMATION PROVIDED LISTED IN NOTES 2 AND 3, ONLY THE RELATIONSHIP TO THE DATA AND INFORMATION PROVIDED TO THE LEASE BOUNDARIES.
 5. WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR IMPACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.

NOTE:
 NO WATER WELLS WERE LOCATED WITHIN 2000' OF THE CENTER OF PAD



JOB # <u>19-002WA</u> DRAWING # <u>OXFORD97CH</u> SCALE <u>1" = 2000'</u> MINIMUM DEGREE OF ACCURACY <u>SUBMETER</u> PROVEN SOURCE OF ELEV. <u>SUBMETER MAPPING GRADE GPS</u>		I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.		LEGEND - - - - - Surface Owner Boundary Lines +/- - - - - - Interior Surface Tracts +/- ○ Proposed Well Path ⊗ As Drilled Well Path	
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS WELL TYPE: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> (IF "GAS") PRODUCTION <input checked="" type="checkbox"/> STORAGE <input type="checkbox"/> DEEP <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> LOCATION: ELEVATION <u>1,333' AS BUILT</u> WATERSHED <u>HEADWATERS MIDDLE ISLAND CREEK</u>		STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WILLOW LAND SURVEYING PLLC 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415		THOMAS SUMMERS P.S. 2109 <i>Thomas Summers</i> DATE <u>04/07/20</u>	
QUADRANGLE <u>OXFORD 7.5' (THL) - WEST UNION 7.5' (BHL)</u> DISTRICT <u>WEST UNION</u> COUNTY <u>DODDRIDGE</u> SURFACE OWNER <u>HAESSLY LAND & TIMBER LLC</u> ACREAGE <u>266.38 ACRES +/-</u> OIL & GAS ROYALTY OWNER <u>DOUGLAS C. STUART</u> LEASE ACREAGE <u>266 AC±</u> <u>CHARTER D. STINESPRING; DESSIE FLEMMING; ADA PEARL HEFLIN; LUTHER M. PERINE</u> 89 AC±; 96.8 AC±; 97.3 AC±; 146.5 AC±				OPERATOR'S WELL # <u>OXFORD 97 CH</u> API WELL # <u>47 - 017 - 06483</u> STATE <u>WEST VIRGINIA</u> COUNTY <u>DODDRIDGE</u> PERMIT <u> </u>	
PROPOSED WORK: DRILL <input type="checkbox"/> CONVERT <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/> OTHER PHYSICAL CHANGE IN WELL <input type="checkbox"/> (SPECIFY) <u>AS DRILLED</u> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/>		TARGET FORMATION <u>MARCELLUS</u> ESTIMATED DEPTH <u>6,891' TVD 16,758' MD</u> WELL OPERATOR <u>ANTERO RESOURCES CORP.</u> DESIGNATED AGENT <u>DIANNA STAMPER - CT CORPORATION SYSTEM</u> ADDRESS <u>1615 WYNKOOP STREET</u> ADDRESS <u>5400 D BIG TYLER ROAD</u> <u>DENVER, CO 80202</u> <u>CHARLESTON, WV 25313</u>		COUNTY NAME <u>DODDRIDGE</u> PERMIT <u> </u>	