



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 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 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 - 06585 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 GHS  
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 516947m  
Landing Point of Curve Northing 4342790.44m Easting 517080.86m  
Bottom Hole Northing 4346535m Easting 515307m

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 - 06585 Farm name Haessly Land & Timber LLC Well number Oxford 97 GHS

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"	59'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	863'	New	48#, H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2998'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	20886'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6882'		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	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) 20894' MD ,6999' TVD (BHL), 7000' (Deepest Point Drilled) Loggers TD (ft) 20894' 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



API 47- 017 - 06585 Farm name Haessly Land & Timber LLC Well number Oxford 97 GHS

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Marcellus</u>	<u>6771' (TOP)</u>	<u>TVD</u>	<u>6959' (TOP)</u> <u>MD</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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 3942 mcfpd Oil 23 bpd NGL --- bpd Water 1 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

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

**\*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

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

API 47-017-06585 Farm Name Haessly Land & Timber LLC Well Number Oxford 97 GHS

**EXHIBIT 1**

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	11/12/2019	12373.2325	12208.2575	60	Marcellus
2	11/13/2019	12172.8625	12007.8875	60	Marcellus
3	11/13/2019	11972.4925	11807.5175	60	Marcellus
4	11/14/2019	11772.1225	11607.1475	60	Marcellus
5	11/14/2019	11571.7525	11406.7775	60	Marcellus
6	11/15/2019	11371.3825	11206.4075	60	Marcellus
7	11/15/2019	11171.0125	11006.0375	60	Marcellus
8	11/16/2019	10970.6425	10805.6675	60	Marcellus
9	11/17/2019	10770.2725	10605.2975	60	Marcellus
10	11/17/2019	10569.9025	10404.9275	60	Marcellus
11	11/18/2019	10369.5325	10204.5575	60	Marcellus
12	11/18/2019	10169.1625	10004.1875	60	Marcellus
13	11/19/2019	9968.7925	9803.8175	60	Marcellus
14	11/19/2019	9768.4225	9603.4475	60	Marcellus
15	11/19/2019	9568.0525	9403.0775	60	Marcellus
16	11/20/2019	9367.6825	9202.7075	60	Marcellus
17	11/20/2019	9167.3125	9002.3375	60	Marcellus
18	11/20/2019	8966.9425	8801.9675	60	Marcellus
19	11/21/2019	8766.5725	8601.5975	60	Marcellus
20	11/21/2019	8566.2025	8401.2275	60	Marcellus
21	11/22/2019	8365.8325	8200.8575	60	Marcellus
22	11/22/2019	8165.4625	8000.4875	60	Marcellus
23	11/23/2019	7965.0925	7800.1175	60	Marcellus
24	11/23/2019	7764.7225	7599.7475	60	Marcellus
25	11/23/2019	7564.3525	7399.3775	60	Marcellus
26	11/24/2019	7363.9825	7199.0075	60	Marcellus
27	11/24/2019	7163.6125	6998.6375	60	Marcellus

API 47-017-06585 Farm Name Haessly Land & Timber LLC Well Number Oxford 97 GHS

**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	11/12/2019	85.46003	7908.091	5299	3060	400750.0201	7974.39	N/A
2	11/13/2019	84.41052	7853.762	5521	3240	406850	7075	N/A
3	11/13/2019	84.70223	7680.202	4628	3687	401600	6985.67	N/A
4	11/14/2019	83.28949	7906.355	5594	3401	400950	6967.08	N/A
5	11/14/2019	84.63967	7661.809	5258	3585	401000	6949.79	N/A
6	11/15/2019	82.91577	7935.357	5412	3761	401000	6955.2	N/A
7	11/15/2019	83.53031	7679.605	5567	3722	400450	6979.52	N/A
8	11/16/2019	82.58449	7860.869	5255	3944	400800	6953.51	N/A
9	11/17/2019	85.93484	7721.445	5209	4293	400600	7006.82	N/A
10	11/17/2019	85.66716	7687.477	5775	4297	400900	6967.65	N/A
11	11/18/2019	87.03978	7533.514	5462	3649	400600	7146.33	N/A
12	11/18/2019	85.56651	7333.802	5756	4054	399750	6873.64	N/A
13	11/19/2019	86.39424	7614.131	6032	4575	400400	6916.71	N/A
14	11/19/2019	85.34541	7261.546	6027	4942	400850	6854.04	N/A
15	11/19/2019	87.34331	7359.767	5791	4138	401000	6994.74	N/A
16	11/20/2019	82.43368	7320.196	5719	4785	393550	6889.22	N/A
17	11/20/2019	80.60111	7003.566	5860	3780	401450	6799.87	N/A
18	11/20/2019	80.07786	6955.122	5454	4339	400100	6876.79	N/A
19	11/21/2019	74.64979	7403.614	5730	4238	399750	7917.65	N/A
20	11/21/2019	86.27951	7064.046	5358	3517	400900	6825.07	N/A
21	11/22/2019	86.64468	7606.281	6230	3548	400700	6804.68	N/A
22	11/22/2019	81.20609	7268.975	5887	3802	400700	6795.48	N/A
23	11/23/2019	82.55695	7435.639	6350	3895	401450	6826.61	N/A
24	11/23/2019	81.52279	6860.763	5963	3819	401000	6786	N/A
25	11/23/2019	87.08545	7300.181	5671	4438	401700	6834.9	N/A
26	11/24/2019	80.75024	6750.86	5423	5050	400450	6763.35	N/A
27	11/24/2019	80.53069	7159.686	6268	4505	401000	7629.57	N/A
	<b>AVG</b>	<b>83.7</b>	<b>7,449</b>	<b>5,648</b>	<b>4,002</b>	<b>10,820,250</b>	<b>189,349</b>	<b>TOTAL</b>

**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	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		1,971		1,790		N/A	
Big Lime	1,971		2,675		1,972		2,675	
Fifty Foot Sandstone	2,675		2,732		2,675		2,733	
Gordon	2,732		3,010		2,733		3,010	
Fifth Sandstone	3,010		3,079		3,010		3,079	
Bayard	3,079		3,835		3,079		3,836	
Speechley	3,835		4,117		3,836		4,119	
Balltown	4,117		4,588		4,119		4,602	
Bradford	4,588		5,012		4,602		5,043	
Benson	5,012		5,279		5,043		5,320	
Alexander	5,279		6,555		5,320		6,638	
Sycamore	6,363		6,537		6,453		6,620	
Middlesex	6,537		6,663		6,638		6,776	
Burkett	6,663		6,721		6,794		6,864	
Tully	6,721		6,771		6,882		6,959	
Marcellus	6,771		NA		6,959		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: 47-017-06585 County: Doddridge  
District: West Union Well No: OXFD97 GHS  
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

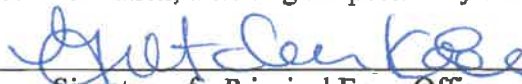
1. Do you have permission to use expedited treatment from the Director or his representative? (Y/N) n/a If yes, who? \_\_\_\_\_ and place a four (4) on line 7. If not go to line 2
2. Was Frac Fluid or flowback put into the pit? (Y/N) n/a If yes, go to line 5. If not, go to line 3.
3. Do you have a chloride 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: \_\_\_\_\_



LATITUDE 39°15'00"

3,440'

8,795' TO BOTTOM HOLE

LATITUDE 39°17'30"

LONGITUDE 80°47'30"

6,222'

LONGITUDE 80°47'30"

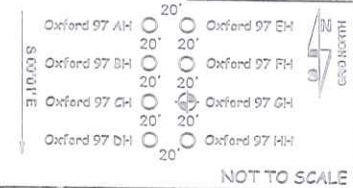
8,641' TO BOTTOM HOLE

Antero Resources Corporation  
Well No. Oxford 97 GH

AS DRILLED DATA:  
 WELL GH TOP HOLE INFORMATION:  
 N: 269,624ft E: 1,630,682ft  
 LAT: 39°13'58.51" LON: 80°48'13.72"  
 BOTTOM HOLE INFORMATION:  
 N: 282,457ft E: 1,625,512ft  
 LAT: 39°16'04.59" LON: 80°49'21.83"  
 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 GH TOP HOLE INFORMATION:  
 N: 4,342,652m E: 516,947m  
 BOTTOM HOLE INFORMATION:  
 N: 4,346,535m E: 515,307m

PAD LAYOUT



- NOTES:
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 INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.

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



JOB # 19-002WA  
 DRAWING # OXFORD97GH  
 SCALE 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY SUBMETER  
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

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.



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
 WILLOW LAND SURVEYING PLLC  
 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

LEGEND  
 --- Surface Owner Boundary Lines +/-  
 --- Interior Surface Tracts +/-  
 ○ Proposed Well Path  
 ⊙ As Drilled Well Path  
 THOMAS SUMMERS P.S. 2109

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

DATE 04/07/20  
 OPERATOR'S WELL# OXFORD 97 GH

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X \_\_\_  
 LOCATION: ELEVATION 1,333' AS BUILT WATERSHED HEADWATERS MIDDLE ISLAND CREEK  
 QUADRANGLE OXFORD 7.5' (THL) - WEST UNION 7.5' (BHL) DISTRICT WEST UNION COUNTY DODDRIDGE

API WELL # 47 - 017 - 06585  
 STATE COUNTY PERMIT

SURFACE OWNER HAESSLY LAND & TIMBER LLC  
 OIL & GAS ROYALTY OWNER DOUGLAS C. STUART; G. W. FARR ET UX;  
 BENJAMINE H. PERINE ET AL; DESSIE FLEMMING; ADA PEARL HEFLIN; LUTHER M. PERINE;  
 MICHAEL S. FRANCES ET AL; VIRGINIA M. ELLIOTT; LIVINGSTON S. BEE ET UX; PAULINE V. GREAVER

ACREAGE 266.38 ACRES +/-  
 LEASE ACREAGE 266 AC±; 262 AC±;  
 122 AC±; 96.8 AC±; 97.3 AC±; 146.5 AC±;  
 173 AC±; 44 AC±; 356.5 AC±; 13 AC±

PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_  
 PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) AS DRILLED \_\_\_  
 TARGET FORMATION MARCELLUS PLUG & ABANDON \_\_\_ CLEAN OUT & REPLUG \_\_\_  
 WELL OPERATOR ANTERO RESOURCES CORP. ESTIMATED DEPTH 6,999' TVD 20,894' MD  
 ADDRESS 1615 WYNKOOP STREET DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM

ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313