

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47 - 017 - 06632 County Doddridge District Southwest
Quad Oxford 7.5' Pad Name Oxford 13 Pad Field/Pool Name ----
Farm name I.L. Morris Well Number OXFD 13 FHS
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 4335534m Easting 521781m
Landing Point of Curve Northing 4335524.50m Easting 521772.10m
Bottom Hole Northing 4334052m Easting 522413m

Elevation (ft) 1152' 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

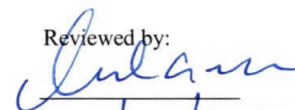
Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)
Air - Foam & 4% KCL
Mud - Polymer

Date permit issued 10/12/2018 Date drilling commenced 5/26/2015 Date drilling ceased 6/28/2015
Date completion activities began 3/22/2020 Date completion activities ceased 4/25/2020
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

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Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 38' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1427', 1494', 1827' Void(s) encountered (Y/N) depths No
Coal depth(s) ft 87' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed by:

8/14/2020

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API 47- 017 - 06632 Farm name I.L. Morris Well number OXFD 13 FHS

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"	89'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	1087'	New	48#, H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2846'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	12200'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	7115'		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	514 sx	15.6	1.18	120	0'	8 Hrs.
Surface	Class A	361 sx	15.6	1.18	826	0'	8 Hrs.
Coal							
Intermediate 1	Class A	n/a sx	15.6	1.18	1181	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	169 sx (Lead) 2489 sx (Tail)	13.5 (Lead), 15.2 (Tail)	1.53 (Lead), 1.83 (Tail)		-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 12234' MD, 6975' TVD (BHL), 6977' (Deepest Point Drilled) Loggers TD (ft) 12234' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6300'

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

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

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WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED N/A

API 47- 017 - 06632 Farm name I.L. Morris Well number OXFD 13 FHS

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>6879' (TOP)</u> TVD	<u>7169' (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 489 mcfpd Oil 1 bpd NGL --- bpd Water 1 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 Frontier Drilling LLC
Address 562 Spring Run Road City Pennsboro State WV Zip 26415 RECEIVED Office of Oil and Gas

Logging Company Allied Horizontal Wireline Services
Address 381 Colonial Manor Road City North Huntington State PA Zip 15642 AUG 10 2020
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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 7/21/20

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

API 47-017-06632 Farm Name I.L. Morris Well Number OXFD 13 FHS

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	3/11/2020	12147.1	11983.694	60	Marcellus
2	3/11/2020	11948.61275	11785.2067	60	Marcellus
3	3/12/2020	11750.1255	11586.7195	60	Marcellus
4	3/12/2020	11551.63826	11388.2322	60	Marcellus
5	3/12/2020	11353.15101	11189.745	60	Marcellus
6	3/12/2020	11154.66376	10991.2577	60	Marcellus
7	3/13/2020	10956.17651	10792.7705	60	Marcellus
8	3/13/2020	10757.68926	10594.2832	60	Marcellus
9	3/13/2020	10559.20201	10395.796	60	Marcellus
10	3/14/2020	10360.71477	10197.3087	60	Marcellus
11	3/14/2020	10162.22752	9998.82148	60	Marcellus
12	3/14/2020	9963.740268	9800.33423	60	Marcellus
13	3/14/2020	9765.25302	9601.84698	60	Marcellus
14	3/15/2020	9566.765772	9403.35973	60	Marcellus
15	3/15/2020	9368.278523	9204.87248	60	Marcellus
16	3/15/2020	9169.791275	9006.38523	60	Marcellus
17	3/15/2020	8971.304027	8807.89799	60	Marcellus
18	3/16/2020	8772.816779	8609.41074	60	Marcellus
19	3/16/2020	8574.32953	8410.92349	60	Marcellus
20	3/16/2020	8375.842282	8212.43624	60	Marcellus
21	3/16/2020	8177.355034	8013.94899	60	Marcellus
22	3/17/2020	7978.867785	7815.46174	60	Marcellus
23	3/17/2020	7780.380537	7616.9745	60	Marcellus
24	3/17/2020	7581.893289	7418.48725	60	Marcellus
25	3/17/2020	7383.40604	7220	60	Marcellus

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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	3/11/2020	85.94	8279	6209	3455	409860	7268.31	N/A
2	3/11/2020	85.1	8074	6051	4048	408820	7121.31	N/A
3	3/12/2020	85.9	8152	6440	4658	402000	7133.881	N/A
4	3/12/2020	84.21	8150	6047	4582	401580	7018.476	N/A
5	3/12/2020	83.84	8104	6350	3673	397960	6888.119	N/A
6	3/12/2020	85.9	7937	6037	4012	406360	7061.738	N/A
7	3/13/2020	85.9	8063	6488	4051	407080	6940.619	N/A
8	3/13/2020	85.35	8185	6207	3897	402240	6856.81	N/A
9	3/13/2020	85.9	8133	6602	4110	402660	6945.405	N/A
10	3/14/2020	85.9	8173	7299	4191	402240	7114.69	N/A
11	3/14/2020	85.02	8327	7452	4642	405480	6992.405	N/A
12	3/14/2020	85.78	8222	6486	4155	404280	6935.19	N/A
13	3/14/2020	85.9	8039	7192	3973	402500	7046.095	N/A
14	3/15/2020	85.97	7862	6818	4228	407020	7086.024	N/A
15	3/15/2020	85.7	7695	6659	4213	407580	7033.024	N/A
16	3/15/2020	84.06	7939	6831	3965	408100	7348.262	N/A
17	3/15/2020	85.9	8140	7124	4434	399580	6903.548	N/A
18	3/16/2020	85.9	7793	7024	4345	407000	6970.286	N/A
19	3/16/2020	85.37	7954	7067	4339	404900	6812.238	N/A
20	3/16/2020	83.34	7540	6595	4492	408740	6834.69	N/A
21	3/16/2020	85.9	7831	6866	4316	400100	6749.714	N/A
22	3/17/2020	84.93	7691	6722	4462	408640	7112.333	N/A
23	3/17/2020	85.71	7660	7008	4701	405080	6773.667	N/A
24	3/17/2020	84.89	7535	6515	4460	404840	6725.119	N/A
25	3/17/2020	86.34	7259	6248	3920	403500	6680.69	N/A
	AVG.	85.4	7,949	6,653	4,213	10,118,140	174,353	TOTAL

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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	120	175	120	175
Sandstone	175	230	175	230
Silty sandstone tr coal	230	595	230	595
Shaly siltstone tr coal	595	610	595	610
Shaly siltstone	610	705	610	705
Silty Sandstone	705	850	705	850
Silty sandstone	850	920	850	920
Silty Sandstone	920	1,190	920	1,190
Siltstone	1,190	1,310	1,190	1,310
Siltstone tr coal	1,310	1,480	1,310	1,480
Sandstone tr coal	1,480	1,800	1,480	1,800
Shaly siltstone tr coal	1,800	1,855	1,800	1,855
Silty sandstone tr coal	1,855	2,009	1,855	2,009
Big Lime	2,009	2,716	1,980	2,716
Fifty Foot Sandstone	2,716	2,804	2,687	2,804
Gordon	2,804	3,134	2,775	3,134
Fifth Sandstone	3,134	3,181	3,105	3,182
Bayard	3,181	3,678	3,153	3,682
Speechley	3,678	3,889	3,653	3,895
Balltown	3,889	4,554	3,866	4,565
Bradford	4,554	5,000	4,536	5,014
Benson	5,000	5,240	4,985	5,256
Alexander	5,240	6,661	5,227	6,711
Sycamore	6,497	6,632	6,528	6,682
Middlesex	6,632	6,772	6,682	6,887
Burkett	6,772	6,816	6,887	6,973
Tully	6,816	6,879	6,973	7,169
Marcellus	6,879	NA	7,169	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.

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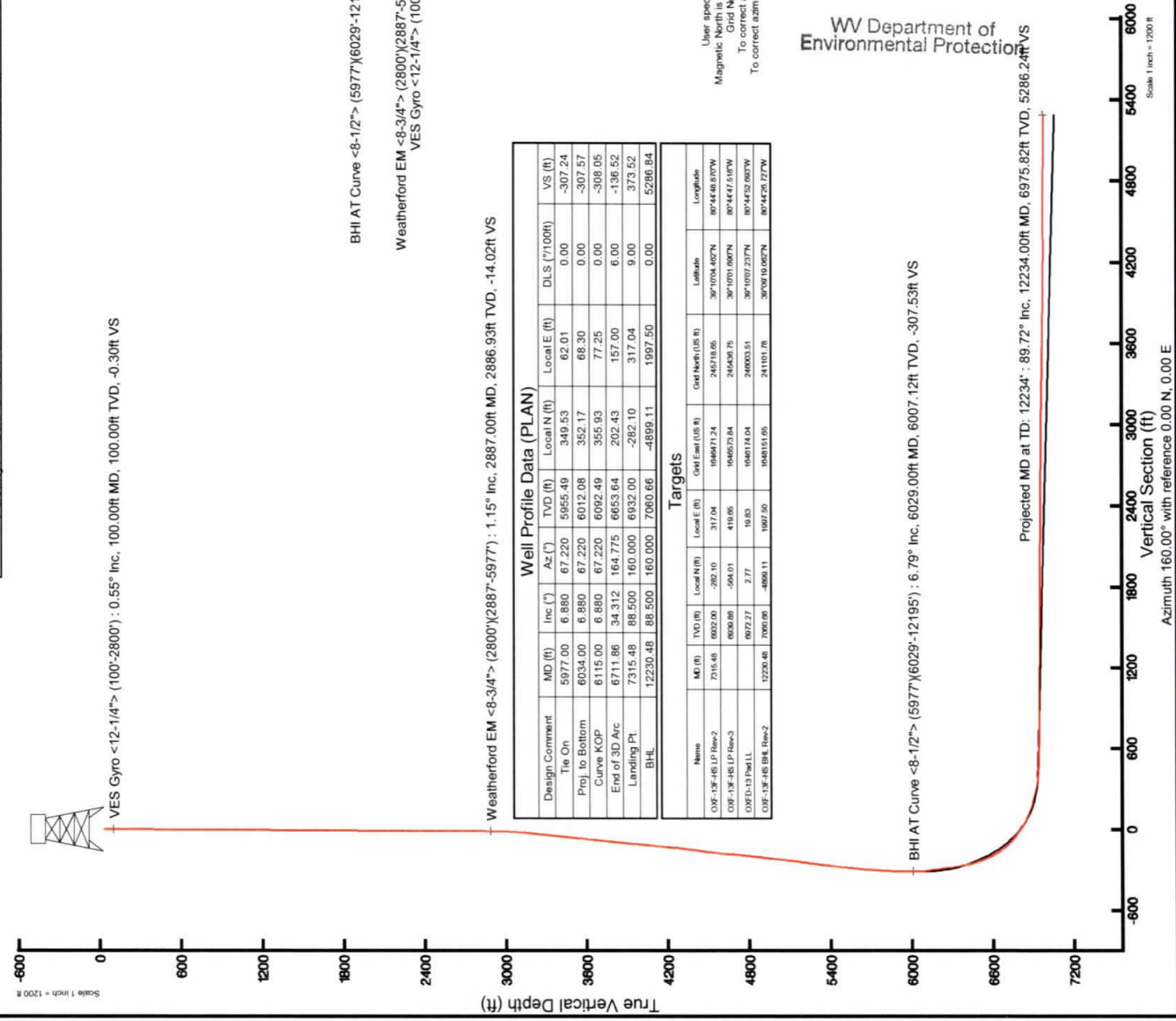
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Location: Doddridge Co., WV
 Field: Doddridge
 Facility: OXF-13 Pad
 Slot: Slot F
 Well: OXF-13F-HS
 Wellbore: OXF-13F-HS-PWB

Grid System: NAD27 / Lambert West Virginia SP / Northern Zone (7011) US Nat
True vertical depths are referenced to Patterson 805 (RKB)
North reference depths are referenced to Patterson 805 (RKB)
Patterson 805 (RKB) to Mean Sea Level: 1180.77 ft
Mean Sea Level to Mud line (At Slot: Slot F): -1152.27 ft
Coordinates are in feet referenced to Slot
Scale: True distance
Depths are in feet
Created by: shahgar on 30-Jun-2015

Location Information			
Facility Name	Grid East (US ft)	Grid North (US ft)	Longitude
OXFD-13 Pad	1646174.040	246003.510	39°10'07.237"N
Local E (ft)	Local N (ft)	Grid East (US ft)	Grid North (US ft)
-2.77	-19.83	1646154.210	246000.740
Slot	Slot F	Mean Sea Level to Mud line (At Slot: Slot F)	28.5ft
OXFD-13 Pad	Slot F	Patterson 805 (RKB) to Mean Sea Level	1180.77ft



VES Gyro <12-1/4"> (100°-2800'): 0.55° Inc, 100.00ft TVD, -0.30ft VS

Weatherford EM <8-3/4"> (2800')(2887'-5977'): 1.15° Inc, 2887.00ft MD, 2886.93ft TVD, -14.02ft VS

BHI AT Curve <8-1/2"> (5977')(6029'-12195'): 6007.12ft TVD, 351.91ft N, 67.72ft E

Weatherford EM <8-3/4"> (2800')(2887'-5977'): 2886.93ft TVD, 12.13ft N, 7.68ft W, 0.05ft E

VES Gyro <12-1/4"> (100°-2800'): 100.00ft TVD, 0.34ft N, 0.05ft E

Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	5977.00	6.880	67.220	5965.49	349.53	62.01	0.00	-307.24
Proj. to Bottom	6034.00	6.880	67.220	6012.08	352.17	68.30	0.00	-307.57
Curve KOP	6115.00	6.880	67.220	6092.49	355.93	77.25	0.00	-308.05
End of 3D Arc	6711.86	34.312	164.775	6653.64	202.43	157.00	6.00	-136.52
Landing Pt.	7315.48	88.500	160.000	6932.00	-282.10	317.04	9.00	373.52
BHL	12230.48	188.500	160.000	7050.66	-4899.11	1987.50	0.00	5286.84

Name	MD (ft)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
OXF-13F-HS LP Rev-2	7315.48	6032.00	352.10	317.04	1646071.24	245718.66	39°10'04.627"N	80°44'48.037"W
OXF-13F-HS LP Rev-3	6030.96	6030.96	356.01	419.06	1646073.84	245638.75	39°10'01.807"N	80°44'47.519"W
OXFD-13 Pad LL	6972.27	2.77	19.83	1946174.04	246003.51	39°10'07.237"N	80°44'52.807"W	
OXF-13F-HS BHL Rev-2	12230.48	7000.96	4898.11	1987.50	1646151.95	241101.78	39°09'10.807"N	80°44'26.127"W

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User specified (HDCM) Dip: 66.64° Field: 52271 nT
 Magnetic North is 7.75 degrees West of True North (at 18-Jun-2015)
 To correct azimuth from True to Grid add 0.80 degrees
 To correct azimuth from Magnetic to Grid subtract 6.83 degrees

Projected MD at TD: 12234'; 89.72° Inc, 12234.00ft MD, 6975.82ft TVD, 5286.24ft VS

Projected MD at TD: 12234'; 6975.82ft TVD, 4899.65ft S, 1994.27ft E

Azimuth 160.00° with reference 0.00 N, 0.00 E

Hydraulic Fracturing Fluid Product Component Information Disclosure



Job Start Date:	3/11/2020
Job End Date:	3/17/2020
State:	West Virginia
County:	Doddridge
API Number:	47-017-06632-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Oxford 13 FHS
Latitude:	39.16867100
Longitude:	-80.74803800
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,974
Total Base Water Volume (gal):	7,522,489
Total Base Non Water Volume:	0

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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
Fresh Water	Halliburton	Base Fluid					
			Water	7732-18-5	100.00000	85.92349	Density = 8.34
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.18584	

SCALECHEK LP-50	Halliburton	Scale Inhibitor								
					Listed Below					
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant								
					Listed Below					
HAI-501	Halliburton	Acid Corrosion Inhibitor								
					Listed Below					
MC B-8614	Halliburton	Biocide								
					Listed Below					
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent								
					Listed Below					
Excelerate EC-8	Halliburton	Friction Reducer								
					Listed Below					
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker								
					Listed Below					
WG-36 GELLING AGENT	Halliburton	Gelling Agent								
					Listed Below					

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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	13.85753	
			Hydrochloric acid	7647-01-0	30.00000	0.04338	
			Acrylamide acrylate polymer	Proprietary	30.00000	0.01259	
			Inorganic salt	Proprietary	30.00000	0.01259	
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.01259	
			Guar gum	9000-30-0	100.00000	0.01058	
			Methanol	67-56-1	100.00000	0.00431	
			Phosphoric Acid Salt	Proprietary	30.00000	0.00395	
			Glutaraldehyde	111-30-8	30.00000	0.00258	
			Sodium chloride	7647-14-5	5.00000	0.00066	
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl chlorides	68424-85-1	5.00000	0.00043	
			Ammonium persulfate	7727-54-0	100.00000	0.00026	
			Ethanol	64-17-5	1.00000	0.00009	
			Modified thiourea polymer	Proprietary	30.00000	0.00008	
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00008	
			Oxylated phenolic resin	Proprietary	30.00000	0.00008	
			Propargyl alcohol	107-19-7	5.00000	0.00001	
			Hexadecene	629-73-2	5.00000	0.00001	
			Ethoxylated alcohols	Proprietary	5.00000	0.00001	
			Formaldehyde	50-00-0	0.10000	0.00001	
			Phosphoric acid	7664-38-2	0.10000	0.00001	
			C.I. pigment Orange 5	3468-63-1	1.00000	0.00000	

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* 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)

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LATITUDE 39°12'30"

11,207'

LATITUDE 39°10'00"

LONGITUDE 80°42'30"

4,110' TO BOTTOM HOLE

14,414'

LONGITUDE 80°42'30"

COUNTY NAME PERMIT

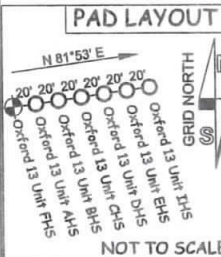
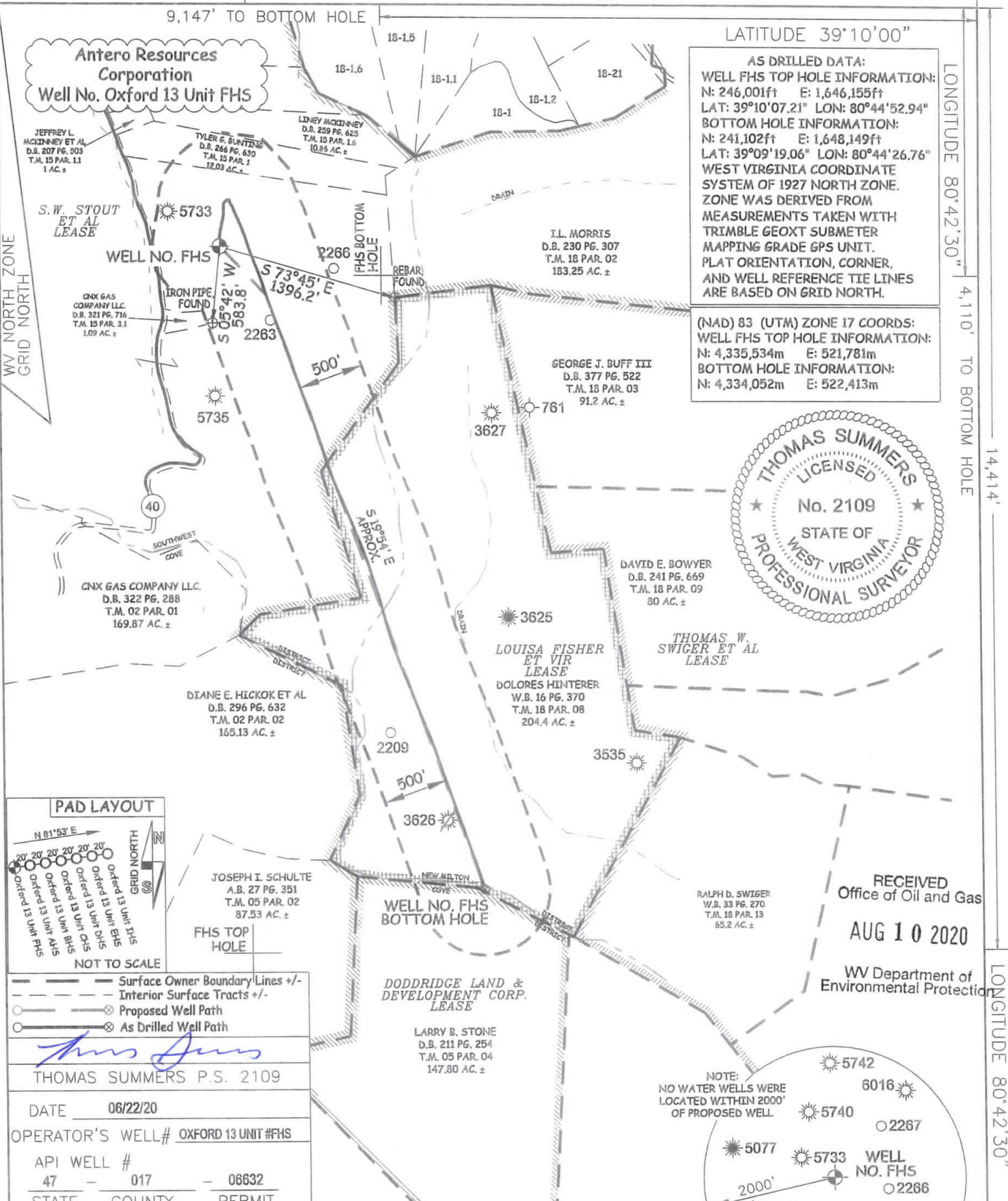
Antero Resources Corporation
Well No. Oxford 13 Unit FHS

AS DRILLED DATA:
 WELL FHS TOP HOLE INFORMATION:
 N: 246,001ft E: 1,646,155ft
 LAT: 39°10'07.21" LON: 80°44'52.94"
 BOTTOM HOLE INFORMATION:
 N: 241,102ft E: 1,648,149ft
 LAT: 39°09'19.06" LON: 80°44'26.76"
 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 FHS TOP HOLE INFORMATION:
 N: 4,335,534m E: 521,781m
 BOTTOM HOLE INFORMATION:
 N: 4,334,052m E: 522,413m



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NOT TO SCALE

THOMAS SUMMERS P.S. 2109

DATE 06/22/20

OPERATOR'S WELL# OXFORD 13 UNIT #FHS

API WELL # 47 - 017 - 06632

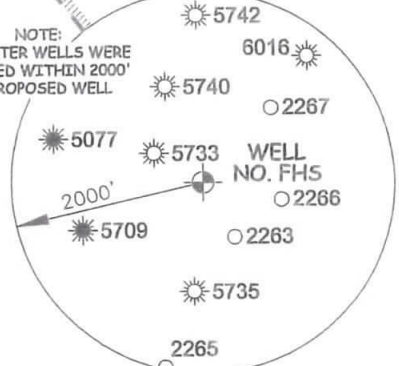
STATE COUNTY PERMIT

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



- 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.
- TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ANTERO RESOURCES CORPORATION.
- AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION.
- 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.
- WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.

JOB # 20-005WA

DRAWING # OXFORD13FHSAD

SCALE 1" = 1000'

MINIMUM DEGREE OF ACCURACY SUBMETER

PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

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

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___

(IF "GAS") PRODUCTION STORAGE ___ DEEP ___ SHALLOW

LOCATION: ELEVATION 1,152' -AS BUILT WATERSHED HEADWATERS MIDDLE ISLAND CREEK

QUADRANGLE NEW MILTON 7.5' DISTRICT SOUTHWEST COUNTY DODDRIDGE

SURFACE OWNER I. L. MORRIS ACREAGE 6,600.75 ACRES

OIL & GAS ROYALTY OWNER S. W. STOUT ET AL; LOUISA FISHER ET VIR LEASE ACREAGE 1,427 ACRES±; 204.4 ACRES±

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 ESTIMATED DEPTH 6,975' TVD 12,234' MD

WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER

ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD

DENVER, CO 80202 CHARLESTON, WV 25313